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

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(May-June)

BULLETIN

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INTERNATIONAL METEOROLOGY

FOR THE MONTH OF MAY, June 1883.

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JUNE, 1884.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 1, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.05	763.2	61.9	16.6	81	se.			1		2			0	0	fair	Malaterre.
Algiers			29.93	760.3	65.8	18.8	46	w.			7		4			0	0	cloudy	Thève.
La Galle			29.87	758.8	69.4	20.8	72	nw.			1		2			0	0	fair	Fonfréde.
Tunis			29.89	759.3															Jacques.
Saida			30.05	763.3															Pérés.
Tebessa			29.96	761.0	78.4	25.8	12	wsw.			6		3			0	0	pretty fair	St. Martin.
Geriville					68.4	20.2	25	nnw.			1		2			0	0	fair	Forfert.
Laghouat			30.07	763.7	75.2	24.0	11	n.			2		2			0	0	fair	Abraham.
Biskra			29.95	760.7	82.0	27.8	21	n.			2		3			0	0	pretty fair	Gouson.
Australian.																			
Adelaide, South Australia			30.16	766.1	54.0	12.2	60	e.	11	4.9			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.08	764.0	30.17	766.3	50.8	10.4	80	se.	3	1.3			3			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.06	738.0	29.59	751.5	62.6	17.0	61	sw.			2		3			0.130	3.3	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.78	731.1	29.54	750.2	55.4	13.0	45	w.	6.9	3.1			2			0	0		Dr. Wierzbiski
Eperies	28.66	728.0	29.51	749.6	60.8	16.0	46	s.			2		10 ks			0	0		Julius Mikolik.
Gratz	28.38	720.9	29.60	751.9	59.2	15.1	70	se.			2		8			0.484	12.3		Andreas Rospini.
Hermannstadt	28.19	716.0	29.57	751.1	61.2	16.2	48	nw.			3		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.21	716.5	29.52	749.7	56.7	13.7	64	nne.			1	3 c	k			0.169	4.3	al. clear	The Staff.
Lemberg	28.59	726.2	29.56	750.7	57.7	14.3	49	nw.			1		1			inap.	inap.		Dr. T. Stanecki.
Neu Schmecks	26.22	665.9	29.52	749.8	50.9	10.5	49	calm			0		9			0	0		Dr. V. von Szontagh.
Pola	29.47	748.5	29.54	750.3	61.9	16.6	60	s.			3		3			0.059	1.5		I. R. Hydrographic Office.
Szathmar	29.13	739.8	29.58	751.3	62.6	17.0		sw.			3		5			0.012	0.3		Joseph Midlinszky, S. J.
Szegedin					64.4	18.0	44									0.276	7.0		Karl Stancel.
Trieste	29.56	750.8	29.66	753.3	57.7	14.3	88	n.			1		9			0.465	11.8		Royal Academy.
Vienna	28.90	734.0	29.60	751.9	56.5	13.6	60	se.			1		6			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.96	761.0	30.06	763.5	47.1	8.4	70	n.	15	6.7			9			0.020	0.5	overcast	W. Boswell.
Armagh, Observatory	29.75	755.6	29.99	761.7	54.3	12.4	58	ne.	11	4.9			2					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.86	758.4	50.0	13.3	45	ene.	24	10.7			6					d. clouds	John Hartnup.
Bolton, Sharples	29.33	745.0	29.86	758.4	54.8	12.7	52	ene.	18	8.0			5					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.49	749.0	29.88	758.9	49.7	9.8	71	ne.			2		4			0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	83.0	28.3	75	ne.			2		3					d. clouds	Corpl. W. I. Cull, A.H.C.
Cardington	29.68	753.9	29.79	756.7	57.5	14.2	90	ne.			1.0		9					overcast	John McLaren.
Chatham, School M. E.	29.61	752.1	29.74	755.4	55.5	13.1	66	e.			2		3					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.52	749.8	29.75	755.6	52.0	11.1	79	ese.			1		7					d. clouds	The Staff.
Fort Napier, Natal	27.85	707.4	30.07	763.8	71.5	21.9	45	ne.			1		1					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.50	749.3	29.73	755.1	84.0	28.9	79	w.			1		3					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.86	758.4	29.90	759.4	52	11.1	66	ne.			3		7			0.01	0.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.90	759.4	29.95	760.7	61.5	16.4	91	w.			2		8					gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.81	757.2	30.02	762.5	53.1	11.7	52	e.			3		3					misty	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.57	751.1	29.74	755.4	57.1	13.9	63	ene.			4		6					d. clouds	The Staff.
Guernsey	29.41	747.0	29.71	754.6	50.0	10.0	86	nne.			2		10					overcast	A. Collenette, F. M. S.
Kew, Observatory	29.72	754.9	29.75	755.6	55.1	12.8	53	ne.	26	11.6			7					d. clouds	The Staff.
Leicester, Museum	29.56	750.8	29.81	757.2	56.2	13.4	59	ne.			1		7					d. clouds	J. C. Smith.
Malta, Mediterranean	29.81	757.2	29.89	759.2	68.4	20.2	92	s.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.03	762.7	30.08	764.0	82.0	27.8	67	sw.			4		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.29	744.0	29.81	757.2	56.9	13.8	54	ne.			4		3					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.54	750.3	29.77	756.1	55.0	12.8	62	ne.			4		9					threatening	The Staff.
Plymouth	29.66	753.4	29.73	755.1	52.7	11.5	70	ene.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.01	762.2	30.11	764.8	46.1	7.8	65						1					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.65	753.1	29.71	754.6	63.0	17.2	71	s.			1		3					d. clouds	W. H. Lyne.
Sheffield	29.59	751.6	29.87	758.7	56.6	13.7	64	ne.			2		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.96	761.0	29.99	761.7	50.0	10.0	68	e.			3		3			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.91	759.7	53.5	11.9	67	ene.	19	8.5			6					d. clouds	W. C. Carlisle.
Truro, Royal Institution	29.76	755.9	29.82	757.4	58	14.4	88	n.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.86	758.4	29.89	759.2	53.5	11.9	39	ne.	24	10.7			4					misty	The Met'g'l Office.
Sub-series.																			
Goso, Episcopal Seminary	29.53	750.0	29.93	760.2	66.6	19.2	63	s.	9.3	4.2		3 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.28	769.1	30.32	770.1	38	3.3	45	calm	0	0		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.26	768.6	30.33	770.4	38	3.3	54	sw.	4	1.8		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.05	763.3	30.25	768.3	38.2	3.4	76	sw.			1	2 cs	8 s		w.	0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.24	768.1	30.29	769.4	39.5	4.2		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.25	768.3	30.28	769.1	37	2.8	79	nw.	10	4.5		0	2 s			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.19	741.4	30.05	763.3	31	— 0.6	88	n.	15	6.7			10 ks		n.	0.03	0.8	cloudy	James Stewart.
Fredericton, N. B.	30.31	769.9	30.38	771.6	38.1	3.4	58	nw.	4	1.8		0	0			0	0	clear	Prof. Harrison, L. L. D.
Granton, Ontario	29.08	738.6	30.21	767.3	39.0	3.9	100	e.	5	2.2		3 ck	0			0	0	fair	Jas. Grant.
Halifax, N. S*	30.22	767.6	30.36	771.1	42	5.6	65	w.	1	0.4		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.77	756.1	30.18	766.6	33.2	0.7	77	ne.			2	4 ck	0		e.	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.92	760.0	30.27	768.8	39	3.9	70	e.	3	1.3		2 k	0		w.	0	0	fair	A. P. Knight, M. A
Little Glace Bay, N. S.	30.29	769.4	30.33	770.4	48.6	9.2	50	ne.			1	0	0			0.230	5.8	blue sky	C. H. Rigby.
Montreal, Quebec*	30.09	764.3	30.30	769.6	38	3.3	67	s.	4	1.8			10 n			inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.00	762.0	30.25	768.3	38.7	3.7	85	sw.			1	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.56	750.8	30.29	769.4	29	— 1.7	88	se.	3	1.3		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.50	749.3	30.25	768.3	39.7	4.3	82	e.			1	3 k	0			0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.49	749.0	30.21	767.3	38	3.3	81	ne.	9	4.0		5 k	0			0	0	fair	H Morgan.
Port Stanley, Ontario	29.51	749.5	30.18	766.6	38	3.3	72	ne.	8	3.6		2 c	2 k			0	0	fair	M. Payne.
Quebec, Quebec*	29.95	760.7	30.33	770.4	33	0.6	81	w.	2	0.9		10 cs	0			0	0	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.78	756.4	30.25	768.3	35	1.7	69	nw.	6	2.7		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B	30.28	769.1	30.34	770.6	37	2.8	85	calm	0	0		0	0			0	0	clear	
St. John, N. B	30.20	767.1	30.37	771.4	40.0	4.4	73	nw.	2	0.9		0	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F.	29.92?	760.0?	30.18?	766.6?	37	2.8	90	sw.			4	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F.			30.16	766.1	37.4	3.0		nw.			4					0	0		The Commandant
Saugeen, Ontario*	29.49	749.0	30.23	767.8	35	1.7	64	e.	13	5.8		0	0			0	0	clear	
Stratford, Ontario	28.90	734.0	30.22	767.6	38.8	3.8	70	e.	10	4.5		2 cs	0			0	0	blue sky	C. J. Macgregor, M A
Sydney, C. B*	30.25	768.3	30.32	770.1	39	3.9	73	sw.	6	2.7		0	0			0.16	4.1	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.87	758.7	30.27	768.8	37	2.8	82	calm	0	0		5 c	0		w.	0	0	fair	Magnetic Observatory.
Windsor, N. S	30.23	767.8	30.32	770.1	38.5	3.6	68	sw.	4	1.8		0	0			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.14	740.1	30.23	767.8	40.4	4.7	78	ne.	11	4.9		3 cs	0			0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.32	770.1	30.39	771.9	40	4.4	70	nw.	2	0.9		0	0			0	0	clear	Lt. F. E. Vinnot, R. N.
London, Ontario	29.30	744.2	30.22	767.6	38.6	3.7	39	se.			1	1 c	3 ks		nw.	0	0	d. clouds	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	30.09	764.3	30.12	765.0	66	18.9	83	nne.	9.8	4.4		0	0			0	0	hazy	John Duthie.
Springbok Fontein	27.89	708.4			81	27.2	11	n.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.19	639.9																	A. Gueluy.
Tchang-kia-tchouang	29.82	757.5	29.93	760.3	52.0	11.1	100	ne.			1		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.77	756.2	29.80	756.8	61.0	16.1	79	ese.	16.8	7.5			10			0	0	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.52	749.8	29.57	751.0	55.0	12.8	51	n.	18	8			3						Oversergent Fischer.
Fanoe	29.67	753.5	29.69	754.0	54.9	12.7	57	nnw.			6		3						Overloerer Lauridsen.
Godthaab, Greenland	29.60	751.7	29.64	752.8	35.8	2.1	91	ene.			4		10					raining	S. Kleinschmidt.
Jacobshavn, Greenland	29.97	761.3	30.03	762.5	28.0	— 2.2		calm			0		9					foggy	
Stykkisholm, Iceland	30.39	771.8	30.43	772.9	40.6	4.8	89	calm			0		0						A. O. Thorlacius.
Thorshavn	30.28	769.0	30.30	769.6	43.4	6.2	63	nne.	18	8			4						Overloerer Bergh.
Upernavik, Greenland																			
Vestervig	29.62	752.3	29.71	754.6	50.7	10.4	66	n.			2		0						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	28.94	735.0	29.59	751.5	50.4	10.2	89	w.			3		n		w.	0.488	12.4		M. Labroue, Director.
Alençon, Normal School	29.10	739.0	29.65	753.0	55.0	12.8	81	sw.			1		10 kn		ne.	0	0	covered	M. Nicot, Director.
Arras, Engineer School	29.37	746.0	29.62	752.4	59.7	15.4	98	n.			4		k		sw.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.43	747.5	29.51	749.5	51.8	11	95	sw.			1				sw.	0.535	13.6		M. Giraud, Director.
Bar-sur-Seine	28.94	735.1	29.48	748.9	58.1	14.5	55	ese.			1		10 kn			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.34	745.3	29.61	752.0	57.2	14	48	ne.			3		8		ene.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.51	724.1	29.38	746.2	57.6	14.2	61	ne.			3		n		ssw.	0.004	0.1		M. Gobin, Director.
Bordeaux, Observatory	29.19	741.3	29.45	747.9	47.1	8.4	100	sw.			4		10		w.	0.646	16.4	raining	M. Rayet, Director.
Bourges, Normal School	28.89	733.9	29.44	747.8	49.1	9.5	94	ne.			1		10 n		ne.	0	0	covered	M. Malet, Director.
Brest, Naval Observatory	29.53	750.1	29.78	756.3	54.3	12.4	72	ne.			2		10		ne.	0.012	0.3		M. de Kermarée, Dir.
Caen, Normal School	29.55	750.5	29.62	752.4	52.2	11.2	75	ne.			3		2		ne.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.20	741.6	29.51	749.5	59.5	15.3	68	ese.			6		8	se.	e.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.05	737.9	29.54	750.3	63.3	17.4	43	ne.			3		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.08	713.2	29.43	747.4	49.1	9.5	81	se.			1		10			0.559	14.2	sprinkling	M. Alluard, Director.
Cluny, Normal School	28.58	725.9	29.42	747.2	52.7	11.5	90	e.			1		10		e.	0.322	8.2		M. de Villemontée, Dir.
Commercy, Normal School	28.69	728.7	29.53	750.0	56.5	13.6	58	e.			4		k	e.	e.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.00	685.8	29.52	749.9	44.6	7	71	w.			1		10			0.654	16.6	raining	M. Jemghrard, Director.
Grésasque, du Rhone	28.43	722.2	29.55	750.6	52.3	11.3	65	sw.			2		10		sw.	0.39	10.		M. Kina, Director.
Grenoble, Normal School	28.60	726.3	29.35	745.5	57.6	14.2	63	nne.			1		kn		ssw.	0	0		M. Ablard, Director.
Guéret, Normal School	27.85	707.4	29.42	747.2	45.7	7.6	84	ne.			1		10 n		e.	0.472	12.0	raining	M. Delorme, Dir.
Lamballe, Normal School	29.50	749.3	29.77	756.2	54.7	12.6	70	n.			2		5		n.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.08	738.7	29.65	753.1	49.1	9.5	70	w.			4		10			0.787	20.0	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.58	751.3	29.68	753.9	56.1	13.4	52	nnw.			1		10		s.	0.039	1.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.39	721.1	29.43	747.6	52.3	11.3	66	sw.			1		10 n		sw.	0.228	5.8	covered	M. André, Director.
Mans, Normal School	29.28	743.6	29.58	751.4	50.4	10.2	65	sw.			4		8		nw.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.29	744.0	29.56	750.8	55.0	12.8	80	wnw.	2.7	1.2			10		w.	0.224	5.7		M. Stephan, Director.
Montlouis	24.39	619.6	29.24	742.6	41.0	5.0	39	sw.	9.4	4.2			6	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.39	746.6	29.52	749.9	57.2	14	83	w.			3		5		w.	0.465	11.8	cloudy	M. Galzin, Director.
Nancy, Normal School	28.74	729.9	29.50	749.3	57.2	14.0	65	ene.			2		k		ne.	0	0		M. Hasse, Director.
Nantes, Observatory	29.47	748.5	29.63	752.6	54.9	12.7	95	nne.			1.3		10 n		nne.	0.031	0.8		M. Larocque, Director.
Perpignan, Observatory	29.47	748.4	29.58	751.2	60.1	15.6	37	nw.	20.6	9.2			10	w.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.76	527.2			14.0	—10.0		nw.			2–3		10		nw.	0.386	9.8	snowy	M. Vaussenat, Director.
Privas, Normal School	28.42	721.9	29.48	748.7	50.7	10.4	74	s.			1		10 n	s.	s.	0.71	18.	covered	M. Tailleu.
Puy de Dôme Obs'y, Summit	24.56	623.8			31.8	— 0.1	100	wsw.			3		10			0.173	4.4	snow & fog	M. Alluard, Director.
Rochefort, Naval Obs'y	29.46	748.4	29.50	749.2	53.2	11.8	80	nw.			2		10		n.	3.35	85.	covered	Lt. E. Decante, Director
Roche-sur-Yon, N. School	29.35	745.5	29.56	750.9	54.7	12.6	68	nw.			3		8		se.	1.358	34.5	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.35	694.7	29.49	749.0	45.0	7.2	88	w.			2		10			0.08	2.	light rain	M. Seger, Director.
Rouen, Normal School	29.57	751.1	29.62	752.3	56.8	13.8	60	ne.			4		8		e.	0	0	very cloudy	M. Mouillot, Dir.
Saint Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.38	746.3	29.54	750.4	57.2	14.0	55	ne.			2		9	s.	e.	0	0		M. Renou, Director.
Toulouse, Observatory	28.91	734.4	29.63	752.5	50.4	10.2	79	wsw.			6		5	w.		0.248	6.3	cloudy	M. Baillard, Director.
Tours	29.31	744.5	29.49	749.0	58.3	14.6	52	n.			3		8	ne.	nne.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.06	738.2	29.56	750.8	56.1	13.4	58	e.			4					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.56	750.8	29.71	754.6	54.1	12.3	69	w.	33.5	15.0			7 k; kn	w.	w.	0.791	20.1		M. Cartier, Director.
GERMAN.																			
Ansbach	28.15	715.1	29.57	751.1	57.9	14.4	35	ne.			4		1	ne.		0	0		Prof. Jnedt.
Bamberg	28.78	730.9	29.61	752.1	63.1	17.3	30	sw.			2	0	3 k		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.39	746.6	29.54	750.2	53.2	11.8	58	n.			2		9			0.008	0.2		Meteorological Institute.
Breslau	29.08	738.6	29.60	751.9	48.4	9.1	51	w.			4		7			0	0		Royal University Obs'y
Carlsruhe	29.12	739.7	29.56	750.9	58.3	14.6	50	ne.			1		9	ne.		0	0		Albert Senz.
Cassel	28.88	733.6	29.60	751.7	62.2	16.8	61	n.			4		2	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.59	751.5	62.4	16.9	26	ene.			2		1			0	0		Physical Society.
Friedrichshafen	28.07	712.9	29.45	748.0	56.5	13.6	63	ne.			5		10	sw.		0.413	10.5	raining	Wilhelm, Chief Tel.
Hamburg	29.56	750.8	29.65	753.1	59.2	15.1	45	n.			5		3			0	0		E. Preller.
Kiel	29.64	752.9	29.66	753.3	54.1	12.3	43	nne.			2		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.18	741.2	29.60	751.7	56.8	13.8	49	nnw.			2		6	n.		0	0		H. Leppig, Asst.
Magdeburg	29.39	746.6	29.58	751.3	61.2	16.2	34	n.			3		1	n.		0	0		Dr. Assmann.
Memel	29.52	749.7	29.56	750.8	51.8	11.0	85	w.			2		9 c	o					Issermann.
Munich	27.74	704.5	29.57	751.1	53.8	12.1	64	ne.			2		5	e.		0.067	1.7		Central Station.
Neufahrwasser	29.27	743.4	29.51	749.5	47.8	8.8	76	e.			2		8			0.539	13.7		A. Lothes.
Neustadt, Palatinate	29.06	738.0	29.58	751.2	60.3	15.7	46	e.			2		6	e.		c	0		Dicknether.
Stuttgart	28.62	726.9	29.49	749.0	58.1	14.5	45	ne.			1		4	e.		0	0		Prof. Dr. Schoder.
Wustrow	29.60	751.9	29.63	752.5	50.2	10.1	68	nne.			2	0	2 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.42	747.3	29.80	756.8	73.2	22.9		sw.			3.0	0	0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.59	751.6	29.64	752.9	83.1	28.4	62	wsw.	35.0	15.6			1	wsw.		0	0	d. clouds	
Deesa	29.14	740.2	29.60	751.8	98.8	37.1	27	sw.	17.0	7.6			0			0.60	15.2	blue sky	
Bombay	29.70	754.3	29.73	755.2	85.7	29.8	67	wnw.	11.0	4.9			0			0	0	blue sky	
Poona, Yarrowda	27.85	707.5	29.66	753.4	89.8	32.1	26	nw.	29.0	13.0			4			0	0	d. clouds	
Trichinopoly	29.43	747.4	29.70	754.4	92.7	33.7	48	w.	2.0	0.9			10	ne.	ne.	1.06	26.9	overcast	
Belgaum	27.22	691.4	29.72	754.8	82.6	28.1	59	e.	9.0	4.0			6		e.	0	0	d. clouds	
Lahore	28.76	730.5	29.47	748.5	99.2	37.3	18	n.	4.0	1.8			4			0	0	d. clouds	
Roorkee	28.58	726.0	29.44	747.6	101.9	38.8	14	w.	0	0			0			0	0		
Agra	28.94	735.0	29.47	748.5	106.9	41.6	12	sw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.50	723.8	29.48	748.8	105.2	40.7	14	nw.	4.0	1.8			2	w.		0	0	d. clouds	
Jubbulpore	28.21	716.6	29.50	749.2	103.3	39.6	9	w.	8.0	3.6			4		nw.	0	0	d. clouds	
Lucknow	29.12	739.5	29.48	748.7	99.0	37.2	29	wnw.	7.0	3.1			0			0	0	hazy	
Allahabad	29.15	740.3	29.44	747.8	104.6	40.3	16	wnw.	2.0	0.9			0			0	0	blue sky	
Patna	29.30	744.2	29.48	748.7	94.3	34.6	47	ene.	7.8	3.5			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.51	698.7	29.46	748.2	88.4	31.3	42	sse.	8.5	3.8			10			0	0	thunder	
Cuttack	29.53	750.1	29.61	752.1	88.2	31.2	64	w.	7.0	3.1			9		se.	0	0	d. clouds	
Calcutta, Alipore	29.52	749.9	29.54	750.4	84.7	29.3	85	s.	15.0	6.7			5		ene.	0	0	d. clouds	
Dhubri	29.47	748.5	29.59	751.5	79.5	26.4	86	ne.	13.1	5.8			9		sw.	0.18	4.6	d. clouds	
Chittagong	29.58	751.2	29.67	753.5	81.7	27.6	88	s.	4.9	2.2			8			0	0	d. clouds	
Sibsagar	29.31	744.5	29.65	753.0	78.6	25.9	90	sw.	2.0	0.9			10	w.	w.	0.25	6.4	overcast	
Jeypore	28.14	714.8	29.52	749.8	100.7	38.2	29	wnw.	15.0	6.7			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.18	715.8			98.2	36.8	27	w.	2	0.9		6 ck	4			0	0	gloomy	
Zanzibar			29.91	759.7	79.5	26.4	77	s.	7.9	3.5			10			0.34	8.6	overcast	
ITALIAN.																			
Udine	29.24	742.6	29.64	752.8	60.8	16.0	67	s.	4.9	2.2			10			1.693	43.0		Prof. Giovanni Clodig.
Milan	29.08	738.7	29.60	751.7	55.0	12.8	81	ese.	5.6	2.5			10	se.		0.224	5.7		Prof. G.V. Schiapparelli.
Padua	29.50	749.3	29.61	752.0	60.4	15.8	75	ese.	9.4	4.2			9	sw.		0.398	10.1		Prof. Dott. Lorenzoni.
Moncalieri	28.61	726.8	29.51	749.5	51.8	11.0	82	e.	13.0	5.8			10			1.055	26.8		Prof. F. F. Denza.
Genoa	29.42	747.2	29.61	752.1	54.1	12.3	84	se.	12.5	5.6			10	se.		0.504	12.8		Prof. G. M. Garibaldi.
Mondovi	27.61	701.2	29.50	749.2	48.4	9.1	75	se.			2		9			0.323	8.2		Prof. D. G. Bruno.
Pesaro	29.78	756.3	29.82	757.5	65.5	18.6	96	sw.	9.4	4.2			10			0	0		Prof. Luigi Guidi.
Florence	29.38	746.3	29.63	752.7	65.8	18.8	46	s.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.48	748.8	29.56	750.9	60.1	15.6	64	sse.	5.6	2.5			10	sw.		0.583	14.8		Prof. P. Monte.
Rome	29.56	750.9	29.73	755.2	64.9	18.3	56	sse.	24.2	10.8			7	s.		0	0		Prof. P. Tacchini.
Lecce	29.55	750.5	29.80	756.8	68.4	20.2	49	sw.	16.8	7.5			1	w.		0	0		Prof. C. de Giorgi.
Cosenza	28.96	735.6	29.84	757.8	66.6	19.2	75	ssw.	3.1	1.4			3	sw.		0	0		Prof. D. Conti.
Cagliari	29.53	750.1	29.72	755.0	67.5	19.7	68	s.			2		8			0	0		Prof. A. Pasinotti.
Palermo	29.60	751.8	29.84	758.0	71.6	22.0	28	wsw.	28.0	12.5			8			0	0		Prof. G. Cacciatore.
Syracuse	29.82	757.5	29.87	758.6	63.9	17.7	52	s.	9.8	4.4			3	wsw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.31	744.4	29.82	757.5	61.3	16.5	73	sw.	6.9	3.1			9	w.		0	0		Prof. F. Brioschi.
Stelvio	21.77	552.9			32.4	0.2	81	sw.			2		10			1.181	30.0	covered	Prof. P. F. Denza.
Valdobbia	21.73	552.0			26.4	— 3.1	40	e.			2		10			25.591	650.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.08	764.0	30.11	764.9	41.0	5.0	77	nw.			2	0	0			0	0	clear	H. Hattori.
Awomori	29.99	761.7	30.02	762.5	40.2	4.6	78	w.	8.5	3.8		0	0			0	0	clear	K. Ogawa.
Hamamatsu	29.98	761.5	30.01	762.2	57.3	14.1	85	n.			2	0	0			0	0	clear	
Kagoshima	29.96	761.0	29.97	761.3	66.0	18.9	64	ene.			6	0	1 s			0	0	clear	G. Miyanohaza.
Kioto	29.93	760.1	30.10	764.6	46.8	8.2	64	nnw.	4.4	2.0		0	0			0	0	clear	M. Tojima.
Miasaka	30.00	762.0	30.03	762.7	59.2	15.1	88	ne.			2	1 cs	0	w.		0	0	clear	K. Masusaki.
Miyako	29.87	758.6	29.98	761.4	45.0	7.2	50	wsw.	12.8	5.7		0	0			0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.75	755.6	29.96	761.0	60.0	15.6	77	ne.	0.6	0.3		0	0			0	0	clear	S. Takehayashi.
Niigata	30.15	765.8	30.19	766.8	44.5	6.9	83	n.	0.8	0.4		0	3 ck		wnw.	0	0	fair	M. Morita.
Nobiru	30.05	763.4	30.07	763.8	44.2	6.8	68	nnw.	15.6	7.0		0	1 s			0	0	clear	H. Midzushina.
Numazu	30.00	761.9	30.03	762.8	59.0	15.0	77	calm			0		10 ks			0	0	cloudy	R. Kaneda.
Osaka	30.07	763.9	30.09	764.3	49.3	9.6	65	n.	3.3	1.4		0	0			0	0	clear	H. Omura.
Tokei Obs'y, Yeddo	29.98	761.5	30.06	763.5	52.0	11.1	47	nw.	11.7	5.2			10 s			0	0	cloudy	The Staff.
Wakayama	30.04	762.9	30.09	764.2	53.8	12.1	54	ene.	5.2	2.3		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.80	756.9	29.98	761.5	79.0	26.1	66	se.	17.5	7.8		2 c	1 k	sse.		0.02	0.5	clear	The Staff.
MEXICAN.																			
Guanajuato	23.69	601.7	29.91	759.7	61.7	16.5	59	calm	0	0		2 cs	0	w.		0	0	light haze	Prof. Vicente Fernandez.
Leon	24.32	617.7	30.03	762.7	55.4	13.0	94	calm	0	0		2 c	1 s			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.74	755.3	30.00	762.1	67.5	19.7	95	ne.	0.9	0.4			10 n		sw.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Zacatecas																			J. A. Bonilla, M. E.
Sub-series.																			
Altata					60	15.6	93	ne.	5.8	2.6		0	0			0	0	clear	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.71	754.5	29.71	754.5	57.9	14.4		nne.			4					0.354	9.0		
Groningen	29.66	753.3	29.71	754.7	58.6	14.8		nne.			2					0	0		
Helder	29.74	755.4	29.74	755.4	54.3	12.4		ne.			4					0	0		
Hellevoetsluis	29.71	754.6	29.71	754.6	60.1	15.6	36	ene.			2					0	0		
Utrecht	29.67	753.6	29.72	754.8	62.1	16.7	35	nne.			4		5			0	0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.76	755.8			79.9	26.6	90	ene.	0	0			3			0	0		Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.69	754.1	29.75	755.7	53.6	12.0	47	nnw.	18	8			1			0	0		
Brono	29.89	759.3	29.93	760.3	41.0	5.0	54	e.			6		7			0	0		
Christiania	29.57	751.1	29.72	754.8	55.8	13.2	43	ne.	20	9			5			0	0		
Gjæsvær	30.19	766.8	30.21	767.4	32.7	0.4		calm			0		10						
Lodingen	30.04	763.0	30.09	764.2	34.7	1.4	33	ese.			4		2			0	0		
PORTUGUESE.																			
Angra, Azores	30.18	766.6	30.34	770.6	58.3	14.6	72	nne.	4.3	1.9			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.91	734.4	29.93	760.1	52.9	11.6	64	sw.	3.1	1.4			8			0.177	4.5		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.05	763.3	30.14	765.5	64.2	17.9	69	sw.	4.9	2.2			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.60	751.9	29.94	760.5	55.0	12.8	61	wsw.	21.0	9.4			8			0.020	0.5		The Staff.
Ponta Delgada, Azores	30.22	767.7	30.30	769.5	60.8	16.0	56	nne.	11.9	5.3			4			0	0		
Saint Paul de Loando																			
Serra da Estrella	25.05	636.2	29.92	759.9	31.6	— 0.2	100	sw.					10			1.602	40.7	snow & fog	
RUSSIAN.																			
Akmolinski	28.57	725.6	29.60	751.8	66.0	18.9	33	s.	13	6			9 kn			0.004	0.1		Major K. Lasarew.
Archangel	29.98	761.6	30.00	762.1	30.9	— 0.6	51	nw.	9	4			8 ks			0	0		Capt. Ssellwerstow.
Ashurada	29.65	753.1	29.56	750.7	76.5	24.7	57	n.	2	1		3 cs	0			0	0	light clouds	
Astrakhan	29.61	752.1	29.53	750.0	58.6	14.8	60	ene.	13	6			10 s;n			0	0		Capt. Wisganow.
Baku	29.52	749.7	29.47	748.5	59.4	15.2	82	ssw.	13	6		4 cs	0			0	0		
Barnaul	29.75	755.7	30.26	768.7	44.8	7.1	34	ne.	13	6			1			0	0	light clouds	Meteorological Obs'y
Bielosersk	29.39	746.6	29.87	758.7	38.8	3.8	65	nne.	9	4			10 ks			0	0		
Dorpat	29.43	747.6	29.68	753.8	47.5	8.6	89	se.	7	3			10 n			0.205	5.2	raining	Observatory.
Ekaterinburg	28.43	722.1	29.37	746.0	50.5	10.3	81	e.	11	5			10 n			0.157	4.0		Meteorological Obs'y
Elissawetgrad	29.08	738.6	29.52	749.7	61.7	16.5	60	e.	7	3			10 n			0.181	4.6		
Irkutsk	28.71	729.1	30.42	772.6	34.7	1.5	55	nw.			2		7			inap.	inap.		
Kasalinsk																			
Kasan	29.39	746.5	29.66	753.3	56.1	13.4	41	nnw.	2	1			9 k;ks			0.020	0.5		Observatory.
Kem	30.04	763.1	30.10	764.4	31.6	— 0.2	60	ne.	13	6		0	1 k			0	0		
Kertch	29.41	747.1	29.44	747.7	57.0	13.9	86	sw.	7	3		0	7 n			0.055	1.4		Lagorio & Sastyrea.
Kieff	28.95	735.2	29.57	751.0	55.6	13.1	54	e.	7	3			9 ks;n			0.087	2.2		Observatory.
Koslov	29.19	741.4	29.71	754.7	57.2	14.0	57	ene.	5	2			10 kn			0	0		
Libau	29.49	749.0	29.51	749.6	50.7	10.4	81	e.	7	3			10			0.031	0.8		E. Quass.
Lugan	29.43	747.4	29.61	752.1	51.3	10.7	80	ene.	13	6			10			0.138	3.5		Meteorological Obs'y.
Moscow	29.26	743.1	29.72	755.0	55.6	13.1	52	ne.	6.7	3.0		0	5 ks			0.028	0.7		Meteorological Obs'y
Nikolaiev	29.41	747.1	29.49	749.0	54.9	12.7	95	calm	0	0			10 n			0.339	8.6		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.88	758.9	29.97	761.1	31.3	— 0.4	90	calm	0	0			10			0.150	3.8		Iwanow.
Pekin, China	29.76	755.9	29.90	759.5	50.5	10.3	90	calm	0	0			10 n			0.472	12.0		Physical Observatory.
Petro-Alexandrovsk	29.41	747.0	29.74	755.4	85.8	29.9	20	ne.	1.1	0.5		0	7 ks			0	0		
Petrozavodsk	29.74	755.3	29.94	760.5	35.1	1.7	50	ese.	22	10		0	4 ks			0	0		Dr. Bergmann.
Pinsk	29.11	739.5	29.61	752.1	50.4	10.2	82	se.	13	6			10 s			0.094	2.4		
Poti	29.67	753.5	29.70	754.3	67.3	19.6	81	e.	5	2			10 n			0.063	1.6		
St. Petersburg	29.77	756.2	29.80	756.8	37.9	3.3	58	ene.	13	6			10 n			0	0		Central Physical Obs'y.
Samarkand	27.39	695.8	29.76	756.0	71.6	22.0	59	calm	0	0		0	7 k			0	0		
Semipalatinsk	29.43	747.4	30.08	763.9	59.9	15.5	29	ese.	5	2			0			0	0		Major Lasarew.
Sevastopol	29.33	744.9	29.55	750.6	51.1	10.6	92	wnw.	16	7			10 n			0.264	6.7		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec.	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.27	743.4	29.72	754.9	55.9	13.3	51	sse.	9	4			10			0	0		
Tashkend	28.22	716.8	29.80	756.8	80.2	26.8	28	calm	0	0		0	0			0	0		Terch, A. M.
Tiflis	28.24	717.2	29.61	752.2	63.7	17.6	49	nnw.	9	4		0	8 n			0	0		Physical Observatory.
Vernoe	27.30	693.5	29.72	754.9	65.5	18.6	54	calm	0	0		0	0			0	0		
Viatka	29.05	737.8	29.67	753.7	49.6	9.8	57	nw.	7	3			2			0	0		
Warsaw	29.13	739.9	29.55	750.6	50.5	10.3	60	wsw.	16	7		3 ck	0			0	0		Astronomical Obs'y.
Yeniseisk	30.28	769 0	30.58	776.6	42.8	6.0	47	ese.	2	1			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.13	765.3	48	8.9	92	ene.			6	5	3	ne.		0	0	cloudy	J. Youngclause
North Unst			30.09	764.3				n.			6		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.56	750.8	29.66	753.4	62.2	16.8	34	w.	7.6	3.4		0	1 k			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.73	755.2	29.79	756.7	56.5	13.6	67	nw.	5.1	2.3			10			0.539	13.7	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.83	681.4	29.80	756.9	49.6	9.8	55	w.	21.7	9.7		0	7			0.264	6.7	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.62	701.5	29.86	758.5	50.0	10.0	49	w.	15.9	7.1			9			0.378	9.6	almost cov'd	The Staff.
Murcia, Met. Obs'y	30.07?	763.7?	30.19?	766.9?	68.4	20.2	44	wnw.	4.0	1.8		2	2	e.		0	0		Olayo Diaz, Director.
Oviedo	28.94	735.0	29.81	757.2	50.9	10.5	61	e.	8.3	3.7		6 kn	4 n	e.	w.	0.039	1.0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.84	732.4	29.74	755.3	48.0	8.9	80	s.	11.9	5.3			7			0.398	10.1	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.97	761.2	30.03	762.8	77.2	25.1	86	se.	4.5	2.0		6 cs	k	w.	sw.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.74	755.4	29.80	756.8	84.0	28.9	76	sw.	34.4	15.4		0	1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.6	30.04	763.1	58.8	14.9	59	wnw.	14.5	6.5		0	3		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.99	761.8	30.08	764.1	81.3	27.4	91	e.	9 4	4.2		2 c	2 k	e.	e.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.03	762.8	30.07	763.8	34.2	1.2	49	ne.			4		8			0	0		
Umea	29.87	758.7	29.92	760.0	31.1	— 0.5	94	ne.			7		10			0.047	1.2		
Hernosand	29.85	758.1	29.90	759.4	31.6	— 0.2	85	ne.			2		10			0	0		
Stockholm	29.53	750.0	29.71	754.5	50.4	10.2	50	nne.			4		9			0	0		
Wisby	29.56	750.7	29.61	752.2	42.4	5.8	76	ne.			6		6			0	0		
Sub-series.																			
Upsala	29.65	753.2	29.74	755 4	38.3	3.5	79	n.	17.7	7.9			10		nne.	0.012	0.3		S. G. Fineman.
SWISS.																			
Geneva	28.08	713.2	29.52	749.7	50.9	10.5	71	sw.			2		10					raining	The Observatory.
TURKISH.																			
Constantinople			29.73	755.1	63.5	17.5	64	se.	4	2.0			3		sw.	0	0		The Observatory.
Valona			29.92	759.9	67.1	19.5		se.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.93	760.2	72.9	22.7	58	sw.			2		8 n		sw.	0.05	1.3		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.42	671.1			58	14.4	55	w.			1	2 k		se.		0	0	clear	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.27	768.8	30.35	770.9	47.5	8.6	52	s.	7	3 1		5 c	0			0	0	fair	J. O. Barnes.
Alpena, Michigan	29.55	750.6	30.21	767.3	32	0.0	68	calm	0	0		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.93	633.2	29.75	755.6	40	4.4	62	ne.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.24	691.9	30.08	764.0	27	— 2.8	67	ne.	36	16.1			10 s		ne.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.84	732.5	30.01	762.2	54.0	12.2	96	e	19	8.5			10 n			0.93	23.6	light rain	Edward A. Beals.
Atlantic City, New Jersey	30.35	770.9	30.36	771.1	46	7.8	60	e.	9	4.0		4 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.89	759.2	30.08	764.0	56	13.3	86	ne.	8	3.6			10 n		ne.	0.12	3.0	light rain	John Healy.
Baltimore, Maryland	30.30	769.6	30.35	770.9	50	10.0	72	se.	4	1.8		hz.	0			0	0	clear	Geo W Felger.
Barnegat, New Jersey	30.36	771.1	30.38	771.6	48.5	9.2	71	e.	11	4.9		6 c	0			0	0	fair	G. A. Hill.
Behring Id., Behring Sea	30.07	763.8	30.09	764.3	30.4	— 0.9		e.	13	5.8			10 n		e.	inap.	inap.	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.28	718.3	29.84	757.9	43.5	6.4	93	ne.	6	2.7		3 k	7 s	sw.		0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.24	691.9	30.03	762.7	33	0.6	81	s.	10	4.5			10 s		se.	0.28	7.1	cloudy	S. Wheaton.
Billings, Montana	26.53	673.8	29.71	754.6	35	1.7	89	ne.	30	13.4			10 n			0.03	0.8	heavy rain	T. Gibson.
Bismarck, Dakota	28.20	716.3	29.99	761.7	27	— 2.8	88	ne.	16	7.2			10 s		ne.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.38	771.6	30.41	772.4	47	8.3	77	sw.	8	3.6		6 cs	0			0	0	fair	J. T. Elker.
Boise City, Idaho	27.03	686.5	29.87	758.7	37	2.8	85	n.	2	0.9		0	1 s			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.22	767.6	30.38	771.6	49.0	9.4	56	w.	1	0.4		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	66.0	18.9	90	w.	2	0.9			fg.			0	0	dense fog	M. McCarty.
Buffalo, New York	29.46	748.3	30.20	767.1	43.2	6.2	56	ne.	3	1.3		1 k	sk.			0	0	clear	W. Finn.
Buford, Fort, Dakota	28.10	713.7	30.08	764.0	27	— 2.8	88	ne.	20	8.9		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	30.01	762.2	30.30	769.6	39.3	4.1	54	calm	0	0			10 s		w.	0	0	cloudy	D. N. Farnell.
Cairo, Illinois	29.68	753.9	30.08	764.0	55.6	13.1	82	e.	2	0.9		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.27	768.8	30.29	769.4	49	9.4	77	e.	18	8.0		9 ck	0	sw.		0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.31	769.9	30.34	770.6	48.0	8.9	67	e.	13	5.8		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.28	743.7	29.96	761 0	44	6.7	88	se.			2	0	9 ks		se.	0.31	7.9	cloudy	J. J. McLean.
Cedar Keys, Florida	29.90	759.4	29.92	760.0	73	22.8	84	se.	15	6.7		0	9 s		se.	0.80	20.3	cloudy	G. W. Davis.
Charleston, S. Carolina	29.97	761.2	30.02	762.5	62.0	16.7	100	ne.	20	8.9			10 n		ne.	0.80	20.3	heavy rain	J. H. Smith.
Charlotte, N. Carolina	29.32	744.7	30.16	766.1	51.0	10.6	59	ne.	3	1.3			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742 7	30.00	763.5	57.0	13.9	93	e.	3	1.3			10 n		se.	0.98	24.9	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.79	604.3	29.66	753.4	40.2	4.6	91	sw.	6	2.7			fg.			0.05	1.3	dense fog	E. McGovern.
Chicago, Illinois	29.42	747.3	30.12	765.0	43.2	6.2	66	ne.	5	2.2		10 ck	0			0	0	cloudy	John Laurens.
Chincoteague, Virginia	30.29	769.4	30.31	769.9	48	8.9	71	e.	13	5.8		2 c	0	w.		0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.11	764.8	53.0	11.7	48	ne.	4	1.8		6 c	0	nw.		0	0	fair	L. Dunne.
Cleveland, Ohio	29.42	747.3	30.16	766.1	44.5	6.9	58	calm	0	0		5 ck	0	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.14	714.7	29.93	760.2	53	11.7	80	s.	3	1.3		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.25	742.9	30.09	764.3	48	8.9	56	e.	4	1.8			10 s		w.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.97	710.4	29.87	758.7	61.0	16.1	84	s.	15	6.7		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.40	746.7	30.04	763.0	45	7.2	68	e.	7	3.1		3 ck	0	sw.		inap.	inap.	clear	R. R. Martin.
Davis, Fort, Texas	25.16	639.1	29.88	758.9	47	8.3	66	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.11	714.0	29.80	758.4	42	5.6	76	sw.	16	7.2			10 s		sw.	0.18	4.6	threatening	D. Moore.
Deadwood, Dakota	25.17	639.3	29.69	754.1	37	2.8	100	calm	0	0			10 n			0.07	1.8	light rain	F. Willson.
Delaware Breakwater, Del	30.34	770.6	30.36	771.1	46	7.8	68	se.	16	7.2		0	0			0	0	clear	T. S. Townsend.
Denver, Colorado	24.47	621.5	29.63	752.6	45.5	7.5	83	calm	0	0			hz.			0	0	dense haze	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.00	762.0	48	8.9	80	se.	3	1.3			10 s		se.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.46	748.3	30.16	766.1	39.0	3.9	73	n.	5	2.2		2 c; hz	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.15	689.6	29.70	754.4	53	11.7	74	sw.	20	8.9		6 cs	0	w.		0	0	fair	J. H. Bryce.
Dubuque, Iowa	29.38	746.2	30.08	764.0	44.8	7.1	74	e.	3	1.3			10 s		se.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.19	741.4	29.94	760.5	40	4.4	65	calm	0	0		10 ck	0			0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.18	741.2	29.98	761.5	62.0	16.7	86	se.	1	0.4		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25 06	636.5	29.74	755.4	35	1.7	100	calm	0	0			10 s		s.	0	0	cloudy	H. R. Boynton.
Eastport, Maine	30.29	769.4	30.30	771.1	42.0	5.6	58	w.	1	0.4		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.09	688.1	29.79	756.7	54	12.2	69	se.	12	5.4		10 c	0	se.		0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.18	665.0	29.82	757.4	69.0	20.6	57	sw.	2	0.9		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.46	748.3	30.18	766.6	44	6.7	83	ne.	1	0.4		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.49	749.0	30.15	765.8	37.0	2.8	77	se.	6	2.7		0	8ks; s		sw	0	0	cloudy	George Heathcote.
Galveston, Texas	29.94	760.5	29.98	761.5	68	20.0	90	n.	5	2.2		0	hz.			0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.50	749.3	30.16	766.1	37.0	2.8	61	ne.	8	3.6		1 c	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.15	638.8	29.76	755.9	52	11.1	26	nw.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.19	766.8	30.21	767.3	56	13.3	86	ne.	20	8.9		9 k	0	ne.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.65	651.5	29.82	757.4	30	— 1.1	71	n.	16	7.2			10 n		n.	0.28	7.1	heavy snow	N. C. Smith.
Huron, Dakota	28.53	724.6	29.88	758.9	41	5.0	78	se.	7	3.1			9 s		se.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.09	764.3	51.2	10.7	52	e.	2	0.9		5 ck	0	w.		0	0	fair	C. F. R. Wappenhaus.
Indianola, Texas	29.94	760.5	29.98	761.5	67.2	19.6	88	w.	4	1.8		0	0			0.03	0.8	clear	I. A. Reed.
Jacksboro, Texas	28.77	730.7	29.92	760.0	60	15.6	54	se.	5	2.2		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	29.92	760.0	29.96	761.0	69	20.6	93	e.	4	1.8			10 s		se.	0.22	5.6	cloudy	J. W. Smith.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.49	698.2	29.94	760.5	34	1.1	82	ne.	26	11.6			10 s			0	0	cloudy	W. B. Lamar.
Keokuk, Iowa	29 38	746.2	30.03	762.7	48.0	8.9	80	e.	8	3.6		6 k	0	w.		inap.	inap.	fair	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	80.0	26.7	82	sw.	10	4.5			10 s			0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.25	768.3	30.27	768.8	50	10.0	86	ne.	23	10.3		7 c	0	sw.		0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.07	738.4	30.09	764.3	54	12.2	88	ne.	1	0.4			10 s			0.01	0.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.26	743.2	30.02	762.5	48	8.9	50	se.	6	2.7			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.06	738.1	29.94	760.5	51	10.6	66	e	3	1.3		6 cs	0	w.		0.08	2.0	fair	A. W. Browne.
Lewiston, Idaho	29.05	737.9	29.89	759.2	45.5	7.5	96	e.	2	0.9			10 s		w.	0.41	10.4	cloudy	W. Bell.
Little Rock, Arkansas	29.69	754.1	30.00	762.0	53	11.7	93	e.	1	0.4		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.63	752.6	30.03	762.7	49	9.4	86	s.	8	3.6		0	2 s		sw.	inap.	inap.	clear	T. S. Collins.
Louisville, Kentucky	29.50	749.3	30.06	763.5	53	11.7	55	n.	5	2.2		3 c	0	w.		0	0	clear	L. M Dey.
Lynchburg, Virginia	29.55	750.6	30.23	767.8	50.2	10.1	47	se.	4	1.8			10 ks		se.	0	0	cloudy	Lou's Duane.
Mackinaw City, Michigan	29.55	750.6	30.20	767.1	34.5	1.4	72	e.	7	3.1		5 ck	0			0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.18	766.6	30.19	766.8	56.0	13.3	93	ne.	17	7 6			10 s		ne.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.51	647.9	29.92	760.0	20	— 6.7	73	ne.	16	7.2			10 n		ne.	0.06	1.5	light snow	F. Burke.
Marquette, Michigan	29.37	746.0	30.09	764.3	38	3.3	54	sw.	18	8.0		2 k	6 s	sw.	sw.	0	0	cloudy	E. H. Thompson.
Memphis, Tennessee	29.67	753.6	30.00	762.0	58	14.4	58	n.	7	3.1		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.39	746.5	30.13	765.3	42	5.6	73	se.	9	4.0		9 cs	0	sw.		0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.52	673.6	29.82	757.4	35	1.7	72	nw.	7	3.1			10 n			0.15	3.8	light snow	J. H. Young.
Mobile, Alabama	29.91	759.7	29.95	760.7	66.5	19.2	93	nw.	5	2.2		3 c;ck	5 ks	sw.	nw.	0.91	23.1	cloudy	C. A. Read.
Montgomery, Alabama	29.68	753.9	29.91	759.7	63	17.2	93	ne.	1	0.4			10 s		n.	0.09	2.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.00	736.6	29.98	761.5	30	— 1.1	88	n.	24	10.7			10 s		n.	0	0	cloudy	H. Bessaut.
Mt. Washington, N. H	23.88	606.5	30.06	763.5	17.0	— 8.3	87	w.	36	16.1		4 ck	0	w.		0	0	fair	S. W. Beall.
Nashville, Tennessee	29.45	748.0	30.02	762.5	57.0	13.9	47	ne	2	0.9		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.27	768.8	30.39	771.9	44	6.7	76	sw.	2	0.9			sk.			0	0	dense smoke	J. H. Sherman.
New London, Connecticut	30.36	771.1	30.41	772.4	45	7.2	93	calm	0	0		7 c	0			0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.89	759.2	29.94	760.5	69.5	20.8	78	n.	5	2.2		0	0			0	0	clear	H. C. Smyth.
New York, New York	30.22	767.6	30.40	772.1	44	6.7	76	s.	4	1.8		4 cs	0	sw.		0	0	fair	G. E. Franklin.
Norfolk, Virginia	30.24	768.1	30.27	768.8	50	10.0	72	e.	8	3.6		hz.	hz.			0	0	dense haze	Wm. Davis.
North Platte, Nebraska	26.85	682.0	29.72	754.9	49.6	9.8	91	se.	12	5.4			10 s			0.10	2.5	cloudy	E. F. Brady.
Olympia, Washington T'y	29.91	759.7	29.95	760.7	48.0	8.9	93	s.	1	0.4			10 n			0.13	3.3	light rain	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.94	760.5	48.6	9.2	84	se.	4	1.8			10 s;fg			0.05	1.3	cloudy	A. Pollak.
Ocglaamie, Alaska	30.54	775.7	30.56	776.2	14.0	—10.0	100	ne.	9	4.0		3 c	3 s			inap.	inap.	fair	P. H. Ray.
Oswego, New York	29.91	759.7	30.24	768.1	45.0	7.2	60	s.	6	2.7		0	hz.			0	0	clear	J. G. Linsley.
Palestine, Texas	29.45	748.0	30.00	762.0	59.0	15.0	81	e.	7	3.1		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.87	758.7	29.90	759.4	66.2	19.0	93	n.	2	0.9		0	9 s		w.	0.49	12.4	cloudy	M. McGauran.
Philadelphia, Pa	30.27	768.8	30.37	771.4	45.5	7.5	88	s.	4	1.8		7 ck	hz.	w.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.60	447.0	29.66	753.4	15	— 9.4	87	w.	60	26.8		0	5 s			0.04	1.0	fair	H. Hall.
Pioche, Nevada	23.74	603.0	29.66	753.4	39.0	3.9	67	s.	14	6.3		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.34	745.2	30.14	765.5	46.0	7.8	72	calm	0	0			10 s			0	0	cloudy	W. A. Reid.
Poplar River, Montana	27.99	710.9	30.11	764.8				se.			4	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.47	748.5	30.15	765.8	37.0	2.8	89	ne.	6	2.7			fg.			0	0	dense fog	M. H. Perry
Portland, Maine	30.33	770.4	30.38	771.6	45.5	7.5	64	se.	1	0.4		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.88	758.9	29.95	760.7	48.0	8.9	77	s.	6	2.7			10 s		s.	0.02	0.5	cloudy	M. L. Hearne.
Portsmouth, N. O.					57	13.9	80	ne.	23	10.3		10 cs	0			0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.61	625.1	29.71	754.6	50.0	10.0	36	sw.	8	3.6		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.36	771.1	30.38	771.6	46	7.8	60	w.	4	1.8		3 cs	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	29.98	761.5	29.99	761.7	67.5	19.7	93	ne.	14	6.3			10 n		sw.	1.32	33.5	thund'r st'm	W. J. Evans.
Red Bluff, California	29.66	753.4	30.02	762.5	47	8.3	93	nw.	4	1.8		0	0			0.02	0.5	clear	J. R. Williams.
Rochester, New York	29.57	751.1	30.23	767.8	40	4.4	68	sw.	5	2.2		1 k;hz	hz.	sw.		0	0	clear	E. W. McGann.
Roseburg, Oregon	29.44	747.8	29.99	761.7	43.9	6.6	87	calm	0	0			10 s		sw.	0.02	0.5	cloudy	J. J. Nanry.
Sacramento, California	29.97	761.2	30.05	763.3	49.5	9.7	86	s.	4	1.8		0	6 s		w.	inap.	inap.	fair	J. A. Barwick.
St. Louis, Missouri	29.48	748.8	30.07	763.8	53.5	11.9	83	e.	3	1.3		5 k	0	w.		0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	30.00	762.0	30.04	763.0	25	— 3.9	100	n.	20	8.9		0	3 s		n.	0	0	clear	A. P. Leavitt.
St. Paul, Minnesota	29.13	739.9	29.97	761.2	42.5	5.8	92	s.	6	2.7		6 k	0	sw.		0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.10	740.7	30.02	762.5	29	— 1.7	88	nw.	14	6.3			10 s			0.02	0.5	cloudy	C. B Dilley.
Salt Lake City, Utah	25.32	643.1	29.64	752.8	45	7.2	63	w.	11	4.9		0	8 ks		sw.	0	0	cloudy	J. Craig.
San Antonio, Texas	29.29	744.0	29.99	761.7	57	13.9	86	calm	0	0		0	0			0.25	6.3	clear	J. H. Davis.
San Diego, California	29.96	761.0	30.03	762.7	54.4	12.4	67	w.	9	4.0		0	0			0	0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	30.30	771.1	30.39	771.9	47.0	8.3	68	sw.	4	1.8		5 c	0			0	0	fair	B. A. Blundon.
Sanford, Florida	29.89	759.2			70	21.1	92	s.	5	2.2			10 ks		s.	0.90	22.9	cloudy	J. B. Marbury.
San Francisco, California	30.01	762.2	30.08	764.0	48.5	9.2	89	w.	5	2.2		0	1s;fg		w.	0.01	0.3	clear	N. Gorom.
Santa Fé, New Mexico	23.12	587.2	29.73	755.1	46	7.8	32	calm	0	0		3 c	0	nw.		0	0	clear	H. U. Jones.
Savannah, Georgia	29.91	759.7	30.00	762.0	64	17.8	92	sw.	4	1.8			10 n		sw.	1.03	26.2	light rain	H. W. Ford.
Shaw, Fort, Montana	26.31	668.3	29.91	759.7	25	— 3.9	100	ne.	20	8.9			10 n		ne.	0.76	19.3	heavy snow	A. L. Mathews.
Shreveport, Louisiana	29.73	755.1	29.97	761.2	56.0	13.3	93	calm	0	0		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.60	728.0	29.88	758.9	57	13.9	80	se.	9	4.0		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.79	756.7	29.85	758.2	45.1	7.3	83	ne.	2	0.9		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.51	749.5	29.98	761.5	53.2	11.8	86	e.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.10	764.5	30.14	765.5	60	15.6	87	ne.	15	6.7			10 s			0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.85	707.4	29.90	759.4	40	4.4	100	e.	5	2.2			10 n			0.96	24.4	heavy rain	John F. Hemenway.
Springfield, Illinois	29.39	746.5	30.06	763.5	50	10.0	72	e.	3	1.3		3 ck	5 s	w.	w.	0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.50	725.4	29.98	761.5	54.0	12.2	66	se.	6	2.7		0	0			inap.	inap.	clear	J. H. Bryce.
Starkville, Miss	29.51	749.5	29.98	761.5	61	16 1	78	ne.	3	1.3		0	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.22	716.8	30.05	763.3	26	— 3.3	88	ne.	16	7.2			10 s		ne.	0.02	0.5	cloudy	A. Schneider.
Stockton, Fort, Texas	26.89	683.0	29.90	759.4	55	12.8	74	s.	4	1.8		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.32	770.1	30.37	771.4	42.5	5.8	74	w.	4	1.8		0	0			0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.14	689.3	29.81	757.2	47	8.3	58	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.41	747.0	30.09	764.3	44	6.7	68	n.	6	2.7		5 cs	hz.	w.		0	0	fair	A. Buell.
Tucson, Arizona	27.46	697.5	29.80	756.9	55	12.8	37	se.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.28	743.7	29.31	744.5	36	2.2	89	ne.	2	0.9			10 n			2.05	52.1	light rain	Samuel Applegate.
Verde, Fort, Arizona					58	14.4	40	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.73	755.1	29.98	761.5	61.8	16.6	78	calm	0	0		0	0			0	0	clear	James Kenealy.
Visalia, California	29.64	752.8	30.01	762.2	49.0	9.4	70	nw.	9	4.0		2 ck	2 s	n.	nw.	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.13	612.9	29.61	752.1	35.8	2.1	94	w.	3	1.3		0	0			inap.	inap.	clear	T. M. Ambler.
Washington, D. C.	30.21	767.3	30.32	770.1	47.6	8.7	73	se.	2	0.9		2 c	hz.			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.74	653.8	29.59	751.6	46	7.8	76	ne.	7	3.1			10 s			0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.68	753.9	30.28	769.1	50	10.0	58	e.	4	1.8			10 ks		s.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.11	764.8	30.16	766.1	57	13.9	86	e	10	4.5			10 s		ne.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.44	646.2	29.78	756.4	36	2.2	82	sw.	9	4.0			10 s		w.	0.06	1.5	cloudy	J. Grover.
Yankton, Dakota	28.61	726.7	29.89	759.2	46	7.8	61	s.	5	2.2		10 ck	0			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.68	753.9	29.83	757.7	58.6	14.8	66	nw.	2	0.9		0	hz.			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			54.0	12.2	82	calm	0	0		0	4ks;s		nw.	0.09	2.3	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.07	763.8			74	calm	0	0		2 c	0			0	0	clear	Robirt Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	80	26.7	79	e.			3	5 k	7 ks	e.		0.100	2.5	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	78	25.6	89	calm			0	7 ck		calm		0.01	0.3	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79	26.1	89	ne.			3	2 cs	8 ks	nw.	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
Santiago de Cuba, W. I	30.04	763.0	30.06	763.5	79	26.1	74	calm	0	0		0	0			0	0		R. Mason.
York Factory, B. A.	29.52	749.8	29.58	751.3	16.5	— 8.6	92	s.	7	3.1		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, Malta, Mediterranean	29.91	759.7	79	26.1	35	w.			2		2	w.						d. clouds.
H. M. S. Dido, Barbadoes, W.I.	30.07	763.8	80	26.7		e.			2		7	w.				1	se.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.97	761.2	73	22.8	76	nne.			2		3	nne.						d. clouds.
H. M. S. Minotaur, N. 33° 28′, W. 10° 22′	30.07	763.8	61.5	16.4	61	n.			2		6	nnw.				1	ne.	d. clouds.
H. M. S Rocket, N. 31° 50′, W. 42° 30′	30.39	771.9	74	23.3	81	ene.			2		2							d. clouds.
H. M. S. Tenedos, Halifax, N. S.	30.36	771.1	40	4.4	82	calm			0		0							blue sky.
U. S. Navy Yard, Pensacola, Fla	29.88	758.9	67	19.4	89	n.	2	0.9			10		n.	0.62	15.7			cloudy.
U. S. Navy Yard, Portsmouth, N. H.*	30.31	769.9	39	3.9	73	nw.	2	0.9			0			0	0			clear.
U. S. S. Alliance, Key West, Fla	30.05	763.3	81	27.2	91	sse.			3		10			0	0	sm'h		cloudy.
U. S. S. Colorado, New York, N. Y.	30.42	772.7	43	6.1	91	e.	3	1.3			8		calm	0	0			cloudy.
U. S. S. Franklin, Norfolk, Va	30.28	769.1	50	10.0	79	se.	10	4.5			5		calm	0	0			fair.
U. S. S. Jamestown, Havana, Cuba	29.89	759.2	76	21.4	86	se.			1		5							misty.
U. S. S. Kearsarge, Charleston, S. C	30.06	763.5	64	17.8	94	ne.			6		10		ne.					heavy rain.
U. S. S. Lancaster, Gravesend, Eng	29.75	755.6	56	13.3	75	ene.			4		2		ne.			sm'h		misty.
U. S. S. Michigan, Erie, Pa			44	6.7	76	calm			0		0							clear.
U. S. S. Minnesota. New York, N. Y.	30.40	772.1	52	11.1	66	s.			1		8							foggy.
U. S. S. New Hampshire, Newport, R.I	30.38	771.6	45	7.2	92	sw.			1		2		calm			sm'h		fair.
U. S. S. Portsmouth, Hampton Roads, Va	30.36	771.1	49	9.4	93	sw.			4		5					sm'h		fair.
U. S. S. Powhatan, Key West, Fla	30.02	762.5	80	26.7	62	ssw.			2		10							cloudy.
U. S. S. Quinnebaug, Monrovia, Liberia, Africa	29.96	761.0	82	27.8	91	w.			1		8		w.			sm'h		fair
U. S. S. Saratoga, N. 23° 55′, W. 44° 54′	30.30	769.6	72	22.2	76	ene.			4–5		5?		ene.	0	0	sm'h	ene.	cloudy ?
U. S. S. St. Louis, League Island, Pa	30.40	772.1	47	8.3	77	e.	3	1.3			8		e.	0	0			cloudy.
U. S. S. Swatara, Aspinwall, U.S.C †	29.90	759.4	82	27.8	79	nnw.			2		5		nnw.	0	0	sm'h		fair.
U. S. S. Tennessee, Fort Monroe, Va.	30.31	769.9	53	11.7	86	ese.	22	9.8			8			0	0			fair.
U. S. S. Vandalia, Norfolk, Va	30.27	768.8	52	11.1	86	e.			1		8		calm					fair.
U. S. S. Wabash, Boston, Mass			43	6.1	51	nw.	2	0.9			2		w.	0	0			clear.
U. S. S. Yantic, Charleston, S. C	30.05	763.3	64	17.8	94	ene.			3–6		10		ne.					rain-squalls
Commewyne, N. 20° 58′, W. 55° 00′	30.17	766.3	77.3	25.2	76	e.			4		7							d. clouds.
St. Kilda, Demerara, British Guiana	29.96	761.0	81	27.2	78	ene.			1		2							blue sky.
S. S. Illinois, Philadelphia, Pa*	30.21?	767.3?	60	15.6		nne.			2		1		e.					fine.
S. S. Lord Gough, N. 39° 20′, W. 64° 15′	30.29	769.4	53	11.7		nne.			5		5		ne.	0	0	mod.	ne.	fair.
S. S. Ohio, N. 39° 44′, W. 50° 01′†	30.17	766.3	66	18.9	94	sw.			4		8		wsw.	8 h'r	8 h'r	mod.	sw.	cloudy.
S. S. Pennsylvanian, N. 42° 55′, W. 41° 21′†	30.25	768.3	62	16.7		sw.			2		10					sm'h		overcast.
S. S. Circassian, N. 51° 00′, W. 33° 15′	30.40	772.1	55	12.8	93	var.			0–1		4		ne.	0	0	1	nw.	d. clouds.
S. S. Grecian, N. 47° 56′, W. 62° 57′	30.28	769.1	32	0.0	90	w.			4		0			0	0	sm'h		clear.
S. S. Scandinavian, N. 48° 18′, W. 61° 33′			33	0.6		wnw.			1					0	0			blue sky.
S. S. Antillas, Kingston, Jamaica			86	30.0		ese.			1							sm'h		fine.
S. S. Alvo, Arroyo, Puerto Rico, W.I	30.02	762.5	76	24.4		ene.			2		5 k		calm	1 h'r	1 h'r	sli't	ese.	fine.
S. S. Alene, N. 10° 05′, W. 79° 28′ †	30.00	762.0	80	26.7		ne.			3		1		e.	0	0	sm'h	e.	clear.
S. S. Alisa, St. Mark, Hayti, W. I †	29.92	760.0	81	27.2														
S. S. Anchoria, N. 54° 49′, W. 13° 40′ †	30.12	765.0				ene.	?		4		3		ene.	0	0	mod.	ene.	clear
S. S. Bolivia, New York, N. Y*†	30.44	773.2	52	11.1		ssw.			2		8		sw.	0	0			cloudy.
S. S. Dorian, N. 34° 02′, W. 26° 35′	30.29	769.4	62	16.7		nne.			4		8		n.	0	0	sli't	n.	fine.
S. S. Furnessia, N. 52° —′ W. 6° —′†	29.86	758.4	56.5	13.6	96	nne.			3		1		n.	0	0	sm'h	'sw.	clear.
S. S. Elysia, N. 38° 02′, W. 18° 17′	30.00	762.0	58	14.4	88	wnw.			5		7		wnw.	sh'rs	sh'rs	hv'y	wnw.	showery.
S. S. Llandaff City, Bristol, Eng †	29.70	754.4	57	13.9		e.			6		8		e.	shr's	shr's			cloudy.
S S. Scythia, N. 50° 16′, W. 21° 40′	29.87	758.7	53	11.7	86	nne.			5		3		nne.	2 h'r	2 h'r	cross	var.	clear.
S. S. Canada, N. 48° 42′, W. 23° 22′	29.76?	755.9?	53.6	12		ne.			6		k		ne.	0	0	h'vy	ne.	squally.
S. S. Pereire, N. 45° 35′ W. 36° 01′ †	30.41	772.3	57.2	14		calm			0		0			0	0	r'gh	n.	clear.
S. S. Ville de Marseilles, N. 20° 35′ W. 81° 35′			78	25.6		e.			1		0.			0	0	sm'h		clear.
S. S. Abyssinia, N. 40° 27′, W. 69° 30′	30.46	773.7	50	10.0	86	e.			4		5		e.	0	0	sm'h		d. clouds.
S. S. Wyoming, N. 40° 31′, W. 73° 34′	30.38	771.6	47	8.3		sw.			2		2		sw.	0	0	sm'h		clear.
S. S. Bohemia, N. 47° 58′ W. 19° 58′						nw.			6–7		10		nw.	4 h'r	4 h'r	r'gh	ne.	
S. S. Gellert, New York, N. Y	30.38	771.6	49	9.4	85	se.			2		2		ssw.	0	0			clear.
S. S. Rugia, N. 42° 31′, W. 43° 42′	30.25	768.3	64	17.8		sw.			4		2		wsw.	1 h'r	1 h'r	mod.	w.	hazy.
S. S. Westphalia, N. 49° 25′ W. 22° 32′	29.72	754.9	54	12.2	93	n.			6		8		n.	17 h'r	17 h'r	r'gh	n.	squally.
S S. City of Berlin, N. 41° 50′, W. 53° 00′	30.05	763.3	65	18.3	89	n.			1		10		ne.	15 h'r	15 h'r			light rain.
S S. Bulgarian, N. 47° 35′, W. 39° 23′ *	30.27	768.8				ssw.			1		3		sw.	0	0	light	nw.	clear.
S. S. Ptolemy, N. 5° 15′. W. 29° 30′	30.07	763.8	80.7	27.1	82	n.			3		7 ck			0	0	1	nne.	fair.
S. S. Colorado, Galveston, Texas †	29.98	761.5	64	17.8		ene.			2		3		ene.	light	light			clear.
S. S. Chalmette, N. 38° 06′, W. 74° 27′ †	30.39	771.9	47	8.3		e.			4		0			0	0	sm'h		clear.
S. S. Lone Star, N. 25° 55′, W. 84° 40′ †	29.88	758.9	79	26.1		s.			4		5		sw.	4 h'r	4 h'r	r'gh	var.	fair.
S. S. Alleghany, Baltimore, Md †	30.37	771.4	56	13.3		e.			1		2			0	0			clear.
S. S. Archimede, N. 37° 23′, W. 67° 56′ †	30.36	771.1	66	18.9	64	nne.			4		4		n.	2 h'r	2 h'r	mod.	nnw.	fair
S. S. City of Washington, N. 21° 20′, W. 89° 38′ †	30.03	762.7	80	26.7		e.			2		2		e.	0	0	sm'h		clear.
S. S. Denmark, New York, N. Y †	30.27?	768.8?	49	9.4		sse.			2		0			0	0			clear.
S. S. England, N. 43° 33′. W. 41° 07′	30.26	768.6				sse.			5		10		sse.	0	0	mod.	sse.	hazy.
S. S. Greece, N. 40° 34′, W. 71° 10′			44	6.7		n.			4		2		n	0	0	light		clear.
S. S. Holland, N. 48° 22′, W. 26° 09′	30.01	762.2	48	8.9		n			6		10		n.	0	0		n.	cloudy.
S. S. America, N. 40° 11′, W. 49° 04′ *	30.22	767.6	69.5	20.8	97	ssw.			4		10		ssw.	3 h'r	3 h'r	mod.	sw.	rainy.
S. S. Braunschweig, N. 38° 41′ W. 70° 00′	30.22	767.6			?	ne.			3				ene.	0	0	mod.	ene.	fair.
S. S. Elbe, Bremerhaven, Germany	29.68	753.9	45	7.2	85	w.			2–3		8		w.	0	0			cloudy.
S. S. Fulda, N. 48° 20′, W. 25° 27′	30.02	762.5	50	10.0	86	nnw.			7		9		nnw.	0	0	r'gh	nnw.	cloudy.
S. S. Habsburg, N. 49° 16′ W. 14° 42′	29.76	755.9				e.			4		6		e.	2 h'r	2 h'r	mod	e.	fair.
S. S. Hermann, N. 42° 44′, W. 44° 05′	30.22	767.6	70	21.1	85	sw.			3		8		sw.			mod.	sw.	hazy.
S. S. Main, N. 47° 50′, W. 28° 26′	30.26	768.6	49	9.4		nne.			6		9		ne.	4 h'r	4 h'r	r'gh	n.	cloudy.
S. S. Neckar, N. 54° 50′, E. 1° 53′	29.88	758.9	45.0	7.2	61	n.			5		8		n.	light	light	mod.	n.	cloudy.
S. S. Oder, N. 40° 19′, W. 56° 38′	30.11	764.8	56.3	13.5		n.			6		10		n.	14 h'r	11 h'r	mod.	n.	cloudy.
S. S. Salier, N. 41° 06′, W. 68° 16′ *†	30.36	771.1	41	5.0	84	sw.			1–2		2		sw.	0	0	sm'h	sw.	clear.
S. S Strassburg, N. 48° 59′, W. 13° 31′	29.78	756.4	58.0	14.4	82	e.			4		5		e.	3 h'r	3 h'r	3	nw.	fair.
S. S. Weser, N. 53° 49′, E. 6° 19′	29.78	756.4				n.			3–4		0			0	0	sm'h	n.	clear.
S. S. Orinoco. New York, N. Y			61	16.1		ene.			1		1		e.	0	0			clear.
S. S. Colon, N. 33° 04′, W. 74° 09′ †	30.15	765.8	66	18.9		ne.			4		10		e.	0	0	mod.	ne.	overcast.
S. S. Muriel, Dominica, W.I.	30.02	762.5	82	27.8		e.			2		0			0	0	sm'h		clear.
S. S. City of Augusta, Savannah, Ga †	29.98	761.5				nne.			6		10		ne.	h'vy	hv'y			rainy.
S. S. Belgenland, N. 40° 02′, W. 55° 20′ †	30.22	767.6	53	11.7	100	n.			7		10		n.	0	0	r'gh	nne.	cloudy.
S. S. Nederland, N. 49° 55′, W. 12° 16′			50	10.0	86	e.			5		2		ene.	0	0	cross	w.	clear.
S. S. Rhynland, Antwerp, Belgium	29.67	753.6	62	16.7		ne.			2		2		n.	0	0			clear.
S. S. Pennland, N. 48° 52′, W. 13° 03′	29.86	758.4	50	10.0	86	e.			4		4		ne.	2 h'r	2 h'r	sm'h		
S. S. Waesland, N. 41° 04′, W. 60° 18′	30.40	772.1	47	8.3		n.			6		3		n.	2 h'r	2 h'r	r'gh	n	clear.
S. S. Zeeland, Antwerp, Belgium*†	29.64	752.8	68	20.0		ne.			3		0			0	0			clear.
S. S. P. Caland, N. 50° 35′, W. 0° 58′	29.72	754.9	51.4	10.8	83	n.			5		10		nne.			2	nne.	hazy.
S. S. Leerdam, N. 50° 04′ W. 11° 30′	29.74	755.4	53.2	11.8	93	e			5		7		e.			long	w.	fair.
S. S. W. A. Scholten, N. 40° 25′, W. 54° 33′	30.07	763.8	52.2	11.2	100	n.			6		10		ne.	8 h'r	8 h'r	4	n.	rainy.
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	82	27.8	83	ne.			2		2		ne.	0	0	mod.	ne.	clear.
S. S. Claudius, N. 25° 50′, W. 81° 15′ †	30.17	766.3	81.0	27.2	89	ssw.			3		10			0	0	short	sse.	cloudy.
S. S. State of Florida, Glasgow, Scotland			53	11.7		nne.			3		8		ne.	0	0			cloudy.
S. S. State of Nebraska, N. 44° 20′ W. 42° 30′ *†	30.15	765.8	66	18.9		s.			3		0			0	0	sm'h		clear.
S. S. State of Alabama, N. 40° 28′, W. 55° 15′ *	29.98	761.5	57	13.9		n.			6		10		n.	6 h'r	6 h'r	mod.	nw.	cloudy.
S. S. Lepanto, N. 36° 12′, E. 14° 15′ *	29.96	761.0	63	17.2		wsw.			3		4		nw.	0	0	sm'h	nw.	fair.
S. S. Otranto, N. 49° 43′, W. 7° 56′			54	12.2		n.			4		5		ne.	0	0	mod	ne.	fair.
S. S. Romano, New York, N. Y †	30.37	771.4	44	6.7		s.			2		5							fair.
S. S. Salerno, N. 36° 06′, W. 4° 33′ †	30.09	764.3	59	15.0		wnw.			4		2		w.	0	0	sm'h	w.	clear.
S. S. Dominion, N. 51° 12′, W. 32° 35′ *†	30.35	770.9	47	8.3		nnw.			2		2		nnw.			sm'h	n.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Toronto, N. 42° 53', W. 56° 42'	30.15	765.8	45	7.2		n.			6		4		n.	5 h'r	5 h'r	mod.	n.	fair.
S. S. Lake Huron, N. 50° 41', W. 34° 49'	30.37	771.4	49	9.4		se.			1		1		nw.	o	o	long	nnw.	clear.
S. S. Lake Manitoba, N. 41° 50', W. 57° 05'	30.26	768.6	50	10.0		nne.			6		0			1 h'r	1 h'r	mod.	n.	clear.
S. S. Daniel Steinmann, Boston, Mass†	30.42	772.7	50	10.0		e.			2		0			o	o			clear.
S. S. Plantyn, N. 40° 02', W. 65° 30'	30.32	770.1							2		1		ene.	o	o	cross	e.	clear.
S. S. Norman, N. 39° 59', W. 75° 08'						ne.			1		5			o	o			fair.
S. S. Saxon, Boston, Mass†	30.30	769.6				e.			3		10			o	o			foggy.
S. S. Adriatic, N. 45° 49', W. 37° 03'*†	30.26	768.6	59	15.0	94	s.			4		2		sse.	o	o	sm'h	sse.	clear.
S. S. Republic, N. 41° 00', W. 52° 03'†	30.18	766.6	50	10.0		nw.			6		7		nw.	6 h'r	6 h'r	5	ne.	fair.
S. S. Assyrian Monarch, off Lizard Point, Eng			51	10.6		ese.			1		3		e.				nw.	clear.
S. S. Antonio Lopez, Havana, Cuba, W. I	30.06	763.5	76	24.4	95	se.			2		5			o	o			hazy.
Schr. Abbie H. Gheen, Brooklyn, N. Y†	30.41	772.4	46	7.8		se.			2					o	o			clear.
Bg. Abbie Clifford, N. 18° 09' W. 65° 44'†	30.09	764.3	80	26.7		e.			2		3		e.	2 h'r	2 h'r			clear.
Bk. Aquidneck, N. 10 40', W. 52° 41'*†	30.207	767.1?				ne.			6		1		ne.	o	o	light	ne	clear.
Bk. Alcira, N. 31° 28', W. 67° 02'	30.22	767.6	70	21.1		ene.			4		6		ne.	o	o	cross	var.	fair.
Bk. Adelaide, N. 33° 24', W. 58° 30'*†	30.30	769.6	72	22.2		wsw.			3		2		w.	o	o	light	w.	gloomy.
Schr. Annie R. Lewis, N. 39° 38' W. 72° 50'†	30.45	773.4	47	8.3		e.			1		0			o	o	sm'h	e.	clear.
Bk. Aureola, Barbadoes, W. I†	29.91	759.7	88	31.1		ene.			3		2		ne.	o	o			clear.
Bk. Achille F, N. 47° —', W. 14° 45'†	29.66	753.4	53	11.7	86	sse.			2		7		s.	2 h'r	2 h'r	long	nw.	fair.
Bk. Alba, N. 60° 30', W. 50° 39'*†	29.53	750.0	36.1	2.3		ese.			10									raining.
Bk. Annie R. Storer, N. 30° 50', W. 73° 25' †	30.30	769.6				ne.			4		2			o	o	long	e.	fair.
Bgt. Achsah, N. 13° 00', W. 00° 21'†	30.02	762.5	81	27.2		ne.			4		2		ne.	o	o	mod.	ne.	clear.
Bk. Champion, N. 21° 50', W. 27° 50'			74	23.3	64	nne.			4		5		nne.	o	o	long	ne.	fair.
Bkt. C. S. Bushnell, N. 33° 18' W. 43° 40'	30.38	771.6				sse.			3		1		s.	o	o	mod	ne.	fine.
S. Cornelius, N. 44° 57', W. 37° 11'†	30.33	770.4	61.2	16.2		se.			6		3			o	o	long	ne.	fair.
Bk. Commerce, N. 27° 54', W. 61° 41'			74	23.3		ne.			1		2		ne.	o	o	sm'h	se.	fine.
S. David Stewart, Chesapeake Bay†	30.22	767.6				s.			3		2		e.	o	o			
S. S. D. J. Foley, Kingston, Jamaica, W. I*†	30.05	763.3	83	28.3	75	calm			0		0			o	o			clear.
Bk. Don Justo., N. 32° 56', W. 73° 32'						e.			2		10		ese.	o	o	r'gh	e.	overcast.
Schr. Edith R. Seward, N. 30° 04', W. 66° 00' †	30.14	765.5	75	23.9		ne.			1		4		sse.	o	o	mod.	e.	clear.
S. E. J. Spicer, Liverpool, Eng	29.88	758.9	54	12.2	93	ene.			5		7		ene.	3 h'r	3 h'r			fair.
Bk. E. D. Bigelow, Annapolis, N. S						nw.			4		3		nw.	o	o			fair.
U. S. Fish Com. S. S. Fish Hawk, Quantico Creek, Va †	30.35	770.9	50	10.0	93	calm			0		2		calm	o	o			clear.
Schr. F. E. McDonald, Cedar Keys, Fla†	29.93	760.2				se.			4					sh'rs	sh'rs			cloudy.
S. Festina Lente, N. 40° 31', W. 62° 45'	30.34	770.6	45	7.2		ne.			5		0			o	o	sm'h	ne.	clear.
Bg. Gipsy Queen, Cardenas, Cuba, W. I*†	30.00	762.0							6									fair.
Bk. Godeffroy, N. 24° 03' W. 04° 37'*	30.15?	765.8?	75.9	24.4	68	ne.			2		2		e.	o	o	sm'h	e.	clear.
Bk. Galeon, N. 21° 06', W. 84° 50' †	29.96	761.0	80	26.7		sse.			5		0			o	o	mod.	sse.	misty.
S. Hedwig, N. 37° 27', W. 65° 03'	30.33	770.4	60.8	16.0	86	ne.			6		4		ne.	o	o	4	ne.	fine.
Bk. Hattie G. McFarland, Sandy Hook, N. J*†	30.25	768.3	45	7.2		se.			1		8		s.	o	o			threatening
Bk. John H. Pearson, N. 30° 41', W. 57° 43'						nne.			4				ne.	6 h'r	6 h'r	sm'h	sw.	cloudy.
Schr. Isabel Alberto, N. 32° 00, W. 79° 25' †	29.98	761.5				se.			6		10		se.	mod.	mod.	cross	var.	stormy.
Bk. Cato, N. 38° 45', W. 9° 56'*†	29.91	759.7				w			4		2		wnw.	o	o	mod.	nnw.	clear.
Schr. John L. Thomas, N. 23° 52', W. 83° 20'*†	30.08	764.0				ese.			2		1		sse.	1 h'r	1 h'r	h'vy	e.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	29.90	759.4				calm			0		10			2 h'r	2 h'r			drizzling.
Schr. Jennie N. Huddell, Wilmington, N. C†	30.07	763.8	66	18.9	59	ene.			1		10		e.	o	o			cloudy.
Schr. Leonessa, N. 33° 40', W. 77° 10 †	30.11	764.8				ese.			9		10		ese.	o	o	mod.	se.	cloudy.
Bg. L. & W. Armstrong, San Juan, Porto Rico, W. I*†	30.06	763.5				wsw.			1		1		e.	o	o	sm'h		clear.
Light-house Tender Laurel, Sanibel Island, Fla†	29.97	761.2	73	22.8		ese.			2		10		ese.	4 h'r	4 h'r			cloudy.
Bg. Lillian, N. 30° 00', W. 58° 40'†	30.14	765.5	75	23.9		calm			0		5		se.	½ h'r	½ h'r	mod.	se.	fair.
Bk. Louise Adelaide, N. 26° 10', W. 76° 30'†	29.97	761.2	78	25.6		se.			2		5		sw.	o	o	sm'h		fair.
S. S. Madrid, N. 37° 10', W. 9° 06†	30.00	762.0	57	13.9	75	w.			5		5		w.	sh'rs	sh'rs	long	wnw.	showery.
Schr. Minnie A. Bonsall, Brunswick, Ga †	29.99	761.7	73	22.8		ese.			1		10		ese.	6 h'r	6 h'r			drizzling.
Bgt. Kryolith, N. 49° 41' W. 6° 15' *†	29.80	756.9				n.			3		2		n.	o	o			clear.
S. Mt Washington, N. 33° 00', W. 40° 45' *†	30.46	773.7	74	23.3	72	ene.			1		0			½ hr	½ h'r	sm'h	wnw	clear.
Bgt. Myrtle, Clementsport, N. S*†	30.25	768.3				n.			2		0			o	o			clear.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†	30.05	763.3							2		2		e.	o	o			clear.
Bg. O. C. Clary, N. 25° 20', W. 68° 35'*†	30.04	763.0	79	26.1		se.			3		1		se.			sm'h	se.	clear.
S. Rudolph, N. 41° 37', W. 33° 31'			59.5	15.3		calm			0		2		var.	o	o	mod.	var.	fair.
Bk. Rebus, N. 40° 30', W. 56° 04'	30.13	765.3	53	11.7		nne.			7		7		nne.	2 h'r	2 h'r	r'gh	nne.	fair.
Bg. Rising Sun, N. 20° 00', W. 67° 50'*†	30.00	762.0	82	27.8		ene.			4		1		ene.	o	o	mod.	ene.	
Bk. Rosalie, N. 29° 33' W. 00° 32'*†	30.21	767.3				n.			1					o	o	mod.	se.	clear.
S. Salisbury, N. 45° 03', W. 20° 04'*	29.75	755.6	53.1	11.7	90	nnw.			8		8		nnw.	1 h'r	1 h'r	h'vy	var.	cloudy.
Bk. Southern Belle, off Lisbon, Portugal†	29.82	757.4				nw.					2		nw.	o	o			squally.
S. St. Francis, N. 0° 44', W. 28° 38'†	30.06	763.5	77	25.0	86	calm			0		8		nw.	13 h'r	13 h'r	mod.	ne.	cloudy.
Bkt. Sunlight, N. 28° 55', W. 50° 20'						s.			2		1		sw.	4 h'r	4 h'r	mod	se.	clear.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	29.96	761.0				n.			1		0							
Bk. Tuck Sing, N. 38° 27', W. 73° 47'*†	30.29	769.4				ene.			3		0			o	o	sm'h		hazy.
S. Vincenzo Accame, N. 38° 51' W. 38° 08'†	30.40	772.1	69.8	21		ssw.			3		8		sw.	o	o	light	e.	
Bk. Winifred, N. 1° 54', W. 38° 47'*†	30.10	764.5											ene.	o	o		ne	clear.
Schr. Wm. Wiler, Sandy Hook, N. J*†	30.30	769.6				sse.			1		5		e.	o	o			fair.
S. Wm. McGilvery, N. 37° 00', W. 53° 00 *†	30.15	765.8	74	23.3	76	w.			4		5		w.	o	o	sm'h	w.	fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.41	772.4	57	13.9	94	e.			2		7	se						misty.
H. M. S. Boadicea, Cape Town, Cape Colony	30.03	762.7	66	18.9	94	calm			0									blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.33	770.4	57	13.9	94	ne.			1		8	calm						d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.32	770.1	60	15.6	88	ene.	4	1.8			10		e.	o	o	sm'h		cloudy.
U. S. S. Enterprise, Cape Town, Cape Colony*	29.98	761.5	73	22.8	59	calm			0		2		s.			sm'h		clear.
U. S. S Galena, Montevideo, Uruguay*	30.31	769.9	60	15.6	94	ene.			1		10					sm'h		cloudy.
S. S. Jerome, S. 0° 15', W. 47° 08'*	29.85	758.2	80	26.7		ene.			2		3		se.	o	o	sm'h		clear.
S. S. Archimedes, Rio de Janeiro, Brazil	30.14	765.5				calm			0					2 h'r	2 h'r			fair.
S. S. Hevelius, N. 16° 00', W. 34° 00' †	30.27	768.8	79	26.1		sse.			4		3		sse.	o	o	sm'h		clear.
Bk. Childwall, S. 3° 37'. W. 31° 52'*	29.93	760.2	77	25.0		var.			0–1		7		wsw.	1 h'r	1 h'r	sm'h		fair.
Bk. Gronsvaer, S. 21° 40', W. 34° 15'†	30.02	762.5	76.0	24.4		sw.			5		3		sw.	¼ h'r	¼ h'r	mod.	sw.	clear.
S. Minnie N. Gerow, S. 11° 44' W. 33° 04'†	30.02	762.5	80	26.7		sse.			4		3		sse.	o	o	sm'h	sse.	clear.
S. S. Mendoza, S. 28° 07', W. 42° 10'†	30.30	769.6				ese.			0				ese.	o	o	r'gh	se.	clear.
S. S. Paramita, S. 56° 46', W 67° 55'†	30.18	766.6	44	6.7		wsw.			4		4		sw.	o	o	large	wsw.	fair.
S. Storm King, S. 32° 11', W. 48° 01' *†	30.32	770.1				se.			5		2		se.	1 h'r	1 h'r	r'gh	sse.	clear.
Inchkeith, S. 24° 22', E. 3° 49'	30.09	764.3	70.2	21.2	75	se.			5		7							d clouds.
District No. 3—North Pacific.																		
H. M. S. Champion, Singapore Strait, Malay Penin	29.75	755.6	82	27.8	87	wnw.			2		3					1	nnw.	d. clouds.
H. M. S. Sappho, N. 8° 48', W. 79° 32'			79	26.1	86	calm			0		5	w.						d. clouds.
H. M. S. Flying Fish, Shanghai, China	29.76	755.9	04	17.8	89	se.			3		7	se.						d. clouds.
H. M. S. Swiftsure, Esquimalt, V. I	29.89	759.2	54	12.2	93	sse.			1		10	sse.						raining.
H. M. S. Zephyr, Chee-Foo, China	29.81	757.2	56	13.3	87	n			1		7	s.						d. clouds
H. P. M. S. Tamega, Macao, China	29.72	754.9	83.3	28.5	85	var.			6		3			o	o			d. clouds
U. S. Naval Hospital, Yokohama, Japan	30.10	764.5	54	12.2	35	nw.			2		5		w.	o	o			fair.
U. S. S. Adams, N. 51° 30', W. 131° 45'†	29.77	756.1	48	8.9	85	ese.			1		0					sm'h		clear.
U. S. S. Monocacy, Nagasaki, Japan	29.92	760.0	63	17.2	78	n.			1		0							clear.
U. S. S. Palos, Hong Kong, China	29.63	752.6	80	26.7	91	se.			2		8		se.					cloudy.
U. S. S. Richmond, Hong Kong, China*	29.62	752.3	83	28.3	87	s.			2		5		s.	o	o			fair.
S. S. Oceanic, N. 40° 43', W. 153° 00' *	29.76	755.9	53	11.7	86	ssw.			6		8		ssw.			3	sw.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. City of Chester, San Francisco. Cal †	30.09	764.3	48	8.9	85	sw.			2		0			0	0			clear
S. S. Ancon, N. 37° 04′ W. 122° 25′ †	30.06	763.5	51	10.6	86	wnw.			3		0					mod.	w.	clear.
S. S. Dakota, N. 46° 43′, W. 124° 55′ †	29.93	760.2	50	10.0	79	s.			5		10		s.	0	0	light	var.	cloudy.
S. S. G. W. Elder, N. 48° 22′, W. 124° 44′†	29.87	758.7	49	9.4	85	e.			3		10					mod.	sw.	overcast
S. S. Queen of the Pacific, N. 43° 05′, W. 124° 39′†	29.95	760.7				s.			4		2			0	0	long	sw.	clear.
S. S. State of California, N. 40° 58′, W. 124° 30′†	30.02	762.5	49	9.4	85	sse.			3		10		sw.			large	w.	showery.
S. S. City of Pekin, Hong Kong, China †	29.93	760.2	80	26.7	82	ssw.			2		10		sw.	0	0			cloudy.
S. E. B. Sutton, N. 4° 00′, W. 109° 38†	29.89	759.2	82	27.8	87	ene.			2		3		e.	10 h'r	10 h'r	sm'h	nne.	clear.
S. S. Colima, Panama, Panama †	29.98	761.5	80	26.7	82	nw.			2		2		n.	2.20	55.9			clear.
S. S. San José, N. 10° 19′, W. 85° 40′†	29.89	759.2	82	27.8		ese.			3		0			0	0	long	se.	clear
S. Armenia, N. 4° 25′, W 114° 18′*	29.76	755.9	83	28.3	87	ene.			3		3		ene.	0	0	mod	n.	clear.
S. S. Benledi, Singapore, Malay Peninsula *	29.75	755.6	84	28.9	83	s.			2–3		5		s.	1 h'r	1 h'r	sm'h		hazy.
S. Grecian, S. 1° 45′, E. 128° 22′†	29.87	758.7	83	28.3	87	calm			0					1 h'r	1 h'r	sm'h		clear.
S. Titan, N. 4° 31′, W. 111° 53′*†	29.95	760.7	85	29.4	92	e.			2		1		e.	0	0	sm'h	ne.	clear.
Bk. Xenia, N. 7° 17′, E. 106° 43′			87	30.6		sw.			3		1		sw.	0	0	sm'h		clear.
U. S. S. Ranger, La Libertad, San Salvador	29.94	760.5	78	25.6	82	n.			1		2		calm	0	0	long	se.	hazy.
District No. 4—South Pacific.																		
H. M. S. Diamond, S. 31° 23′, E. 170° 25′			65	18.3	89	sw.			2		5	sw.				5	s.	showery.
H. M. S. Espiegle, S. 30° 22′, E. 162° 28′	30.15	765.8	68	20.0	65	ne.			2		3					2	nne.	d. clouds.
H. M. S. Kingfisher, S. 18° 44′, W. 159° 45′	29.91	759.7	76	24.4		e.			2–4		3					3	ese.	d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.92	760.0	57	13.9		calm			0							sm'h		foggy.
H. M. S. Nelson, S. 33° 52′, W. 151° 13′	29.93	760.2	68	20.0	85	calm			0		7							d. clouds.
U. S. S. Hartford, Tahiti, Society Ids., Oceania*	29.81	757.2	83	28.3	75	var.			1		5		e.	0	0	sm'h		fair.
U. S. S. Iroquois, Valparaiso, Chili	30.00	762.0	59	15.0	81	calm			0		2					sm'h		clear.
U. S. S. Lackawanna, S. 27° 47′, W. 140° 29′*	29.94	760.5	69	20.6	70	sw.			1		5		sw.			long	s.	fair.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	66	18.9	84	nne.			1		10		s.					cloudy.
U. S. S. Pensacola. Callao, Peru*	29.93	760.2	67	19.4	89	calm	0	0			10			0	0			cloudy.
U. S. S. Wachusetts, S. 4° 01′, W. 162° 40	29.87	758.7	82	27.8	87	e.			3		5		e.			long	e.	fair.
Bk. May Hulse, S. 42° 23′, W. 80° 21′	29.42	747.3	57	13.9	87	nne.			4		10							raining.
S. S. City of New York, S. 11° 11′, W. 168° 06′ †	29.89	759.2	82	27.8	83	ne.			3		2		ne.	1 h'r	1 h'r	sm'h		clear.
S. S. City of Sydney, S. 35° 00′, E. 174° 00′*†	30.04	763.0	60	15.6	71	wnw.			3		5 k		w.	0	0	small	nw.	fair.
S. S. Zealandia, Sydney, N. S. W	30.15	765.8	64	17.8	89	w.			2		0							clear.
S. David Crocket, S. 55° 30′, W. 73° 45′*	30.12	765.0	42	5.6	83	sse.			3		10		sse.	3 h'r	3 h'r	long	sw.	overcast.
H. M. S. Lark, S. 11° 55′, E. 162° 15′	29.86	758.4	81.3	27.4	91	e.			5		2					3	e.	d. clouds
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 19° 58′, E. 58° 35′	29.66	753.4	84	28.9		ssw.			3		4	s.						d. clouds.
H. M. S. Euryalus, Bombay, India	29.66	753.4	84	28.9	83	w.			2		0							blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.92	760.0	79	26.1		s.			3		6	sse.				4	sse.	d. clouds.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.76	755.9				s.			3		1	sw.				1	s.	blue sky
H. M. S. Woodlark, N. 24° 30′, E. 58° 20′	29.66	753.4	79.5	26.4	91	nw.			4		0					3	nw.	squally.
U. S. S. Juniata, N. 20° 05′, E. 48° 27′	29.77	756.1	85	29.4	64	ne.			2		2		ne.	0	0	sm'h		clear.
Bk. Alpheus Marshall, S. 2° 30′, E. 49° 15′†*	30.07	763.8				sse.			6		1		sw.	light	light	str'g	sw.	clear.
S. Annie M. Law, S. 11° 17′ E. 99° 24′*†	29.80	756.9	83.0	28.3		ese.			3		1		se.	0	0	long	sse.	clear.
S. S. Burswell, Bombay, India			84	28.9		nw.			2		0			0	0	sm'h		clear.
Bk. Bore, S. 12° 05′, E. 115° 47′*†	30.24	768.1	86	30.0		ene.			3		1		ene.			long	ssw.	clear.
Bk. Ceylon, S. 20° 57′, E. 68° 24′ *†	30.09	764.3	81	27.2	83	ese.			4		1		ese.	sli't	sli't	mod.	ese.	clear.
S. Dynomine, N. 29° 30′ E. 47° 00′	30.27	768.8	67.5	19.7	64	sse.			5		9			0	0	mod.	ssw.	cloudy.
S. S. Malabar, N. 24° 33′, E. 36° 05′						nw.			3		0			0	0	sm'h		clear.
Bk. Pilgrim, S. 15° 00′, E. 105° 00′*†	29.90	759.4				e.			5		5		e.	0	0	mod.	e.	fair.
S. S. Radnorshire, N. 23° 04′ E. 36° 38′*†	29.86	758.4				nw.			3		0			0	0	sm'h		clear.
S. St. David, S. 41° 46′ E. 61° 00′*†	29.80	756.9	57.3	14.1	90	ssw.			8		9		ssw.	rain	rain	h'vy	ssw.	rain & hail.
Bk. Chas. Stewart, S. 44° 40′, E. 125° 00′ †	29.56	750.8	54	12.2		wsw.			6		10		w.	rain	rain	high	wnw.	raining.
S. S. Strathleven, Suez Canal, Egypt	29.96	761.0	75.5	24.2	60	nnw.			1		0			0	0			clear.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 2, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			29.95	760.8	64.8	18.2	63	s.			2		0			0	0	clear	Malaterre.
Algiers			29.89	759.1	61.9	16.6	60	n.			3		0			inap.	inap.	clear	Thève.
La Galle			29.86	758.5	63.3	17.4	76	ene.			3		3			0	0	pretty fair	Fonfrède.
Tunis			29.89	759.3															Jacques.
Saida			29.97	761.2															Pérès.
Tebessa			29.93	760.1	70.9	21.6	34	e.			1		0			0	0	clear	St. Martin.
Geriville					67.6	19.8	19	nne.			4		0			0	0	clear	Forfert.
Laghouat			29.91	759.7	72.3	22.4	25	n.			1		0			0	0	clear	Abraham.
Biskra			29.87	758.7	82.8	28.2	42	calm			0		0			0	0	clear	Gouson.
Australian.																			
Adelaide, South Australia			29.89	759.2	65.0	18.3	45	ene.	12	5.4		3 c				0	0	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.87	758.7	29.96	761.0	46.5	8.1	95	ene.	6	2.7			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.03	737.4	29.57	751.1	55.0	12.8	53	sw.			5		10			0.102	2.6	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.77	730.7	29.52	749.8	54.7	12.6	55	nw.	3.8	1.7			10			0	0		Dr. Wierzbiski
Eperies	28.59	726.1	29.45	748.0	54.1	12.3	71	calm			0		10 s			0	0		Julius Mikolik.
Gratz	28.35	720.1	29.59	751.6	52.5	11.4	80	w.			2		10			0.098	2.5		Andreas Rospini.
Hermannstadt	28.20	716.2	29.61	752.0	55.4	13.0	57	nw.			1		10			0.331	8.4	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.28	718.3	29.63	752.5	45.1	7.3	86	sw.			1		10			0.236	6.0	gloomy	The Staff.
Lemberg	28.50	724.0	29.46	748.3	60.6	15.9	54	w.			2		9			0.189	4.8		Dr. T. Stanecki.
Neu Schmecks	26.15	664.3	29.47	748.5	48.6	9.2	63	calm			0		9			0	0		Dr. V. von Szontagh.
Pola	29.47	748.6	29.54	750.3	59.4	15.2	66	ssw.			4		5			0.425	10.8		I. R. Hydrographic Office.
Szathmar	29.05	737.8	29.50	749.4	52.3	11.3		sw.			5		10			0.520	13.2	lightning	Joseph Midlinszky, S. J.
Szegedin	29.32	744.6	29.60	751.7	53.2	11.8	81	sw.			2		10			0.287	7.3		Karl Stancel.
Trieste	29.51	749.6	29.61	752.1	60.1	15.6	64	sw.			1		10			0.504	12.8		Royal Academy.
Vienna	28.84	732.6	29.55	750.6	51.3	10.7	76	w.			2		10			0.232	5.9		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.92	760.0	30.02	762.5	43.7	6.5	64	nnw.	21	9.4			7			0.080	2.0	squally	W. Boswell.
Armagh, Observatory	29.85	758.2	30.08	764.0	48.0	8.9	60	nne.	7	3.1			10					overcast	S. Gall.
Bidston, Liverpool Obs'y			30.00	762.0	47.2	8.4	62	n.	10	4.5			10					overcast	John Hartnup.
Bolton, Sharples	29.43	747.5	29.96	761.0	44.7	7.1	61	nne.	12	5.4			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.57	751.1	29.96	761.0	42.7	5.9	78	ne.			4		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	83.0	28.3	75	se.			1		6					gloomy	Corpl. W. I. Cull, A. H.C.
Cardington	29.82	757.4	29.92	760.0	47.4	8.6	61	ne.			1.0		9					overcast	John McLaren.
Chatham, School M. E.	29.75	755.6	29.88	758.9	46.9	8.3	64	ne.			1		9					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.72	754.9	29.95	760.7	50.7	10.4	67	se.			1		4					d. clouds	The Staff.
Fort Napier, Natal	27.78	705.6	30.00	762.0	74.0	23.3	40	e.			1		2					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.55	750.6	29.78	756.4	85.0	29.4	64	w.			1		4					raining	Sergt. C. E. Keane.
Galway, Queen's College	29.98	761.5	30.02	762.5	51	10.6	40	e.			1		5			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.79	756.7	29.84	757.9	64.5	18.1	90	nw.			3		3					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.85	758.2	30.06	763.5	48.1	8.9	43	n.			4		9					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.72	754.9	29.89	759.2	48.7	9.3	64	n.			2		9					overcast	The Staff.
Guernsey	29.60	751.8	29.90	759.4	48.0	8.9	70	nne.			3		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.87	758.7	29.91	759.7	46.3	7.9	54	n.	15	6.7			9					d. clouds	The Staff.
Leicester, Museum	29.68	753.9	29.94	760.5	45.5	7.5	60	ne.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.74	755.4	29.82	757.4	63.6	17.6	92	ne.					0					blue sky	Corpl. Keene, A. H. C
Nassau, Bahamas	29.97	761.2	30.02	762.5	81.5	27.5	69	sw.			1		2			blank	blank	blue sky	O. S. Duncombe.
Oscott, St. Mary's College	29.42	747.3	29.95	760.7	43.7	6.5	60	nne.			3		8					gloomy	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.70	754.4	29.92	760.0	46.0	7.8	62	n.			4		10					overcast	The Staff.
Plymouth	29.83	757.7	29.90	759.4	56.0	13.3	87	ene.			2		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.93	760.2	30.03	762.7	43	6.1	83						10					showery	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.67	753.6	29.74	755.4	66.2	19.0	61	ssw.			1		7					d. clouds	W. H. Lyne.
Sheffield	29.68	753.9	29.96	761.0	46.1	7.8	75	ne.			3		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.00	762.0	30.03	762.7	44.8	7.1	67	n.			4		9			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.00	762.0	46.6	8.2	57	nne.	10	4.5			10					overcast	W. C. Carlisle.
Truro, Royal Institution	29.88	758.9	29.94	760.5	60	15.6	71	se.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.01	762.2	30.04	763.0	55.3	12.9	65	n.	18	8.0			3					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.46	748.3	29.85	758.2	68.0	20.0	64	e.	12.4	5.5		2 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.47	773.9	30.52	775.2	40	4.4	75	s.	8	3.6		0	0			0	0	clear	H. J. Cundall, C. E
Chatham, N. B*	30.41	772.4	30.47	773.9	39	3.9	70	w.	1	0.4		8 k	2 ks			0	0	fair	G. A. Blair.
Cornwall, Ontario	29.99	761.7	30.19	766.8	48.2	9.0	55	w.			1	2 cs	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.40	772.1	30.46	773.7	36.5	2.5		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.32	770.1	30.35	770.9	42	5.6	80	s.	6	2.7		2 k	2 s			0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.48	748.8	30.37	771.4	22	— 5.6	67	ne.	5	2.2		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.43	772.9	30.50	774.7	41.1	5.1	74	e.	6	2.7		4 ck	0			0	0	d. clouds	Prof. Harrison, L. L. D.
Granton, Ontario	28.98	736.1	30.09	764.3	45.0	7.2	100	s.	5	2.2		4 cs	0			0	0	fine	Jas. Grant.
Halifax, N. S*	30.43	772.9	30.56	776.2	39	3.9	79	w.	2	0.9		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.69	754.1	30.10	764.5	34.7	1.5	84	ne.			1	2 c	0	e.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.85	758.2	30.19	766.8	44	6.7	65	s.	17	7.6		10 c	0	w.		0	0	fair	A. P. Knight, M. A
Little Glace Bay, N. S.	30.49	774.4	30.53	775.4	55.6	13.1	47	sw.			2	3 c	0	sw.		0	0	blue sky	C. H. Rigby.
Montreal, Quebec*	30.05	763.3	30.26	768.6	46	7.8	50	se.	10	4.5		5 ck	5 ks	s.	s	inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.95	760.7	30.20	767.1	42.1	5.6	74	se.			1	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.37	746.0	30.07	763.8	43	6.1	74	se.	9	4.0		5 k	5 ks			0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.43	747.5	30.17	766.3	42.7	5.9	83	e.			1	1 k	7 s			0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.43	747.5	30.14	765.5	44	6.7	84	calm	0	0		0	0			0	0	clear	H Morgan.
Port Stanley, Ontario	29.46	748.3	30.11	764.8	45	7.2	80	e.	16	7.2		hz.	0			0	0	hazy	M. Payne.
Quebec, Quebec*	29.96	761.0	30.33	770.4	38	3.3	79	n.	4	1.8		5 cs	0			0	0	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	29.63	752.6	30.06	763.5	41	5.0	79	e.	5	2.2		10 cs	0			0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B.	30.41	772.4	30.47	773.9	40	4.4	73	s.	1	0.4		0	0			0	0	clear	
St. John, N. B	30.39	771.9	30.56	776.2	43.0	6.1	83	sw.	6	2.7		0	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F.	30.28?	769.2?	30.54?	775.7?	40	4.4	82	w.			2	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F.			30.47	753.9	39.2	4.0		nw.			4					0	0		The Commandant
Saugeen, Ontario*	29.32	744.7	30.04	763.0	47	8.3	71	s.	12	5.4			10 s			0	0	cloudy	
Stratford, Ontario	28.84	732.5	30.14	765.5	45.0	7.2	82	s.	4	1.8		2 c;cs	2 s		sw.	0	0	blue sky	C. J. Macgregor, M A
Sydney, C. B*	30.49	774.4	30.55	776.0	40	4.4	79	calm	0	0		2 c	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.76	755.9	30.15	765.8	41	5.0	82	e.	2	0.9		5 cs	2 s	sw.		0	0	hazy	Magnetic Observatory.
Windsor, N. S	30.41	772.4	30.51	774.9	38.0	3.3	72	se.	6	2.7		0	0			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.06	738.1	30.13	765.3	47.5	8.6	77	se.	7	3.1		3 cs	0	nw.		0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.46	773.7	30.53	775.4	43	6.1	41	se.	1	0.4		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
London, Ontario	29.19	741.4	30.10	764.5	45.7	7.6	76	s.			0	3 cs	0	nw.		0	0	blue sky	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.97	761.2	30.00	762.0	72.0	22.2	74	e.	4.6	2.1		0	0			0	0	clear	John Duthie.
Springbok Fontein	27.87	708.1			82	27.8	13	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.24	641.2																	A. Guelny.
Tchang-kia-tchouang	29.93	760.3	30.04	763.1	53.8	12.1	87	e.			1		2			0.157	4.0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.79	756.6	29.81	757.2	60.8	16.0	82	nw.	18.3	8.2			10			0.067	1.7	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.55	750.5	29.60	751.7	41.9	5.5	56	n.	13	6			2						Oversergent Fischer.
Fanoe	29.61	752.0	29.63	752.5	48.0	8.9	54	ne.			2		10						Overloerer Lauridsen.
Godthaab, Greenland	29.95	760.7	29.99	761.8				s.			6		10					snowing	S. Klemschmidt.
Jacobshavn, Greenland	29.87	758.7	29.92	759.9	38.1	3.4		se.			4		2						
Stykkisholm, Iceland	30.25	768.3	30.29	769.4	41.0	5.0	89	nw.			2		8						A. O. Thorlacius.
Thorshavn	30.06	763.6	30.09	764.2	43.7	6.5	84	n.	16	7			10						Overloerer Bergh.
Upernavik, Greenland																			
Vestervig	29.59	751.5	29.68	753.8	44.4	6.9	53	nne.			4		9						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.21	742.0	29.87	758.6	53.2	11.8	90	w.			1		kn		w.	0.055	1.4		M. Labroue, Director.
Alençon, Normal School	29.26	743.2	29.81	757.2	54.3	12.4	70	sw.			3	0	2 s			0	0	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School	29.56	750.9	29.83	757.6	45.5	7.5	94	nw.			4	0	8 kn		s.	0	0	almost cov'd	M. Fénéon, Command't.
Avignon, Normal School	29.70	754.3	29.78	756.3	61.9	16.6	47	w.			1		1		w.	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.13	740.0	29.68	753.9	59.4	15.2	46	e.			1	0	5 kn			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.56	750.7	29.82	757.5	52.7	11.5	57	nne.			3		5		nne.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.93	734.7	29.82	757.3	50.4	10.2	90	s.			1		10 n		sw.	1.130	28.7	raining	M. Gobin, Director.
Bordeaux, Observatory	29.51	749.6	29.78	756.3	50.2	10.1	92	w.			1		10		sw.	0.335	8.5	covered	M. Rayet, Director.
Bourges, Normal School	29.19	741.5	29.74	755.3	57.2	14	89	ne.			1		n		ne.	0.181	4.6		M. Malet, Director.
Brest, Naval Observatory	29.65	753.2	29.90	759.4	56.1	13.4	73	ne.			3		6		ne.	0	0		M. de Kermarrée, Dir.
Caen, Normal School	29.78	756.5	29.86	758.4	50.4	10.2	70	nne.			3		10		nne	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.38	746.3	29.70	754.3	58.6	14.8	62	nw.			2		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.06	738.2	29.56	750.9	57.2	14	53	n.			8		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.38	720.9	29.73	755.1	51.8	11.0	65	sw.			2		8		wsw.	0.051	1.3	¾ covered	M. Allnard, Director.
Cluny, Normal School	28.89	733.9	29.74	755.5	53.4	11.9	65	w.			2		8		sw.	0.224	5.7		M. de Villemontée, Dir.
Commercy, Normal School	28.88	733.5	29.72	754.8	59.2	15.1	43	ne.			1		k	ne.	ne.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.20	690.9	29.72	755.0	50.7	10.4	54	ne.			3		8 k			0.087	2.2		M. Jeangirard, Director.
Gréasque, du Rhone	28.66	728.0	29.77	756.2	58.5	14.7	57	w.			2		5		w.	0.106	2.7		M. Klina, Director.
Grenoble, Normal School	28.90	734.1	29.67	753.5	63.3	17.4	55	nnw.			4		kn		nw.	0.213	5.4		M. Ablard, Director.
Guéret, Normal School	28.17	715.4	29.77	756.2	44.2	6.8	77	sw.			3		10 n		sw.	0.295	7.5	raining	M. Delorme, Dir.
Lamballe, Normal School	29.68	753.8	29.95	760.7	51.8	11	75	ne.			3		5		ne.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.23	742.4	29.79	756.6	59.7	15.4	47	w.			1	0	5 k		e.	0.472	12.0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.71	754.5	29.81	757.1	57.6	14.2	55	nne.			2		8		ne.	0.098	2.5	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.69	728.7	29.74	755.3	54.1	12.3	57	e.			1		10 n		s.	0.201	5.1	covered	M. André, Director.
Mans, Normal School	29.46	748.2	29.76	756.0	56.3	13.5	63	ne.			3		2		se.	0.16	4.	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.52	749.8	29.79	756.7	58.6	14.8	60	w.			2.3		4		w.	0	0		M. Stephan, Director.
Montlouis	24.57	624.1	29.41	747.1	44.6	7.0	36	s.	7.4	3.3			7	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.55	750.6	29.68	753.9	61.2	16.2	64	w.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	28.82	732.1	29.59	751.5	59.0	15.0	39	nw.			1		k			0	0		M. Hasse, Director.
Nantes, Observatory	29.63	752.5	29.79	756.6	59.9	15.5	48	ene.			1.2	0	8 k; kn		ne.	0.134	3.4		M. Larocque, Director.
Perpignan, Observatory	29.71	754.5	29.82	757.3	62.1	16.7	47	e.	7.4	3.3			1		wnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.92	531.3			24.4	− 4.2		w.			1				w.	0.004	0.1		M. Vaussenat, Director.
Privas, Normal School	28.68	728.4	29.74	755.3	54.0	12.2	63	s.			1		10 n	w.	w.	0.08	2.	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.82	630.4			31.5	− 0.3	100	wsw.			4		10			0.173	4.4	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.67	753.5	29.70	754.3	51.8	11.0	93	calm			0		10			2.05	52.	raining	Lt. E. Decante, Director
Roche-sur-Yon, N. School	29.54	750.3	29.76	755.8	57.4	14.1	69	ne.			1		8		sw.	0.520	13.2	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.69	703.3	29.84	758.0	46.4	8	89	nw.			1		10			0.04	1.	covered	M. Seger, Director.
Rouen, Normal School	29.79	756.7	29.84	757.9	53.6	12	63	nne.			3		5	ne.		0	0	cloudy	M. Mouillot, Dir.
Saint Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.62	752.3	29.78	756.4	55.8	13.2	54	nne.			3		1	nnw.		0	0		M. Renou, Director.
Toulouse, Observatory	29.11	739.5	29.84	757.8	60.4	15.8	52	nw.			1		5	w		0	0	cloudy	M. Baillaud, Director.
Tours	29.56	750.8	29.74	755.3	59.7	15.4	56	ene.			1		5	se.	ese.	0.331	8.4	cloudy	M. de Tastes.
Versailles, Observatory	29.29	744.0	29.78	756.5	54.7	12.6	52	ne.			3					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.68	753.8	29.83	757.6	60.3	15.7	53	nw.	17.7	7.9		0	2 k			0.118	3.0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.20	716.2	29.61	752.2	56.5	13.6	33	nw.			4		3	nw.		0	0		Prof. Jaedt.
Bamberg	28.74	730.0	29.57	751.1	63.7	17.6	66	w.			2	0	5 ks		w.	0	0		Prof. Dr. Hoh.
Berlin	29.42	747.3	29.56	750.9	57.9	14.4	46	nw.			3		4			0.004	0.1		Meteorological Institute.
Breslau	29.09	738.9	29.61	752.2	50.5	10.3	53	nnw.			2		2			0	0		Royal University Obs'y
Carlsruhe	29.22	742.3	29.67	753.6	60.1	15.6	43	ne.			1		5	se.		0	0		Albert Senz.
Cassel	28.95	735.2	29.66	753.3	50.4	10.2	50	nw.			7		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.64	752.9	63.3	17.4	26	nw.			1		3			0	0		Physical Society.
Friedrichshafen	28.30	718.8	29.70	754.3	54.7	12.6	78	sw.			3		6	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.54	750.4	29.63	752.7	46.6	8.1	92	wnw.			3		10			0	0		E. Preller.
Kiel	29.59	751.6	29.61	752.0	45.1	7.3	78	n.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.18	741.2	29.60	751.7	57.9	14.4	43	nw.			2		4	n.		0	0		H. Leppig, Asst.
Magdeburg	29.41	747.1	29.60	751.9	54.0	12.2	57	wnw.			3		0			0	0		Dr. Assmann.
Memel	29.49	749.1	29.54	750.2	37.0	2.8	82	nw.			6		10					snow & fog	Issermann.
Munich	27.79	705.9	29.63	752.6	52.7	11.5	70	nw.			2		7	w.		0.173	4.4		Central Station.
Neufahrwasser	29.57	751.0	29.58	751.4	36.3	2.4	93	n.			2		10			0.063	1.6	raining	A. Lothes.
Neustadt, Palatinate	29.10	739.2	29.62	752.4	62.4	16.9	35	ne.			2		7			0	0		Dicknether.
Stuttgart	28.71	729.2	29.58	751.3	59.9	15.5	36	nw.			1		5	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.58	751.3	29.60	751.9	46.6	8.1	86	wnw.			2	0	5 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.52	749.9	29.90	759.5	68.9	20.5		s.			3.0		hz			0	0	hazy	Schmidt & Wourlisen.
INDIAN.																			
Kurrachee	29.63	752.5	29.68	753.8	84.0	28.9	66	w.	24.0	10.7			2	w.		0	0	d. clouds	
Deesa	29.18	741.3	29.64	752.9	97.3	36.3	23	sw.	16.0	8.0			0			0	0	blue sky	
Bombay	29.71	754.6	29.75	755.6	85.4	29.7	63	nw.	21.0	9.4			4		w.	0	0	d. clouds	
Poona, Yarrowda	27.86	707.7	29.66	753.3	93.3	34.1	26	w.	31.0	13.8			10			0	0	overcast	
Trichinopoly	29.43	747.6	29.70	754.5	98.8	37.1	37	nw.	1.0	0.4			0			0	0	blue sky	
Belgaum	27.20	690.8	29.69	754.0	84.0	28.9	40	s.	11.0	4.9			8	w.		0.01	0.3	d. clouds	
Lahore	28.80	731.6	29.52	749.7	98.2	36.8	21	e.	2.0	0.9			8			0	0	gloomy	
Roorkee	28.65	727.8	29.51	749.4	102.3	39.1	16	w.	3.0	1.3			0			0	0		
Agra	29.02	737.0	29.55	750.5	105.9	41.1	14	sw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.53	724.6	29.51	749.6	108.2	42.3	13	wnw.	10.0	4.5			8		w.	0	0	d. clouds	
Jubbulpore	28.26	717.9	29.55	750.6	103.7	39.8	14	wnw.	6.0	2.7			4		n.	0	0	d. clouds	
Lucknow	29.17	740.8	29.53	750.0	99.0	37.2	43	sww.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.22	742.1	29.51	749.6	105.1	40.6	17	nw.	2.0	0.9			2			0	0	d. clouds	
Patna	29.38	746.3	29.56	750.9	94.3	34.6	47	ne.	8.4	3.8			2	ne.	ne.	0	0		
Hazaribagh	27.61	701.2	29.55	750.5	92.7	33.7	69	n.	11.4	5.1			2			0	0	d. clouds	
Cuttack	29.53	750.0	29.61	752.0	89.1	31.7	63	wsw.	8.0	3.6			0			0	0	blue sky	
Calcutta, Alipore	29.59	751.7	29.62	752.2	84.6	29.2	83	ssw.	9.0	4.0			4			0.11	2.8	d. clouds	
Dhubri	29.52	749.7	29.63	752.7	84.2	29.0	71	calm	1.6	0.7			0			0	0	blue sky	
Chittagong	29.63	752.5	29.72	754.8	79.7	26.5	88	s.	6.1	2.7			8			0	0	d. clouds	
Sibsagar	29.31	744.5	29.64	752.9	84.0	28.9	72	ne.	2.0	0.9			10	sw.	sw.	0	0	d. clouds	
Jeypore	28.21	716.6	29.60	751.8	98.7	37.1	14	w.	7.7	3.4			1	w.		0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.16	715.3			99.2	37.3	24	e.	2	0.9		4 ck	4			0	0	gloomy	
Zanzibar			29.89	759.2	80.8	27.1	71	sse.	10.8	4.8			10	sw.		0.04	1.0	overcast	
ITALIAN.																			
Udine	29.23	742.5	29.63	752.7	54.1	12.3	81	se.	1.3	0.6			10			0.555	14.1		Prof. Giovanni Clodig.
Milan	29.11	739.3	29.62	752.3	60.3	15.7	54	sw.	3.1	1.4			7	wsw.		0.130	3.3		Prof. G. V. Schiapparelli.
Padua	29.50	749.2	29.60	751.9	58.5	14.7	67	wsw.	12.5	5.6			10	wsw.		0.252	6.4		Prof. Dott. Lorenzoni.
Moncalieri	28.71	729.2	29.60	751.9	57.0	13.9	55	nw.	3.1	1.4			9	n.		0	0		Prof. F. F. Denza.
Genoa	29.47	748.4	29.66	753.3	56.8	13.8	65	se.	8.7	3.9			10	se.		0.795	20.2		Prof. G. M. Garibaldi
Mondovi	27.70	703.6	29.59	751.6	58.3	14.6	58	ne.			2		3			0.181	4.6		Prof. D. C. Bruno.
Pesaro	29.60	751.9	29.65	753.1	64.4	18.0	73	sw.	11.9	5.3			5			0.213	5.4		Prof. Luigi Guidi.
Florence	29.47	748.5	29.72	754.9	58.5	14.7	57	sw.			6		10	sw.		0.280	7.1		Prof. Costantino Pittei.
Leghorn	29.63	752.5	29.71	754.6	60.3	15.7	58	sw.	23.7	10.6			5	w.		0	0		Prof. P. Monte.
Rome	29.67	753.6	29.84	757.9	63.3	17.4	45	sw.	17.4	7.8			8	sw.		0.154	3.9		Prof. P. Tacchini.
Lecce	29.61	752.2	29.86	758.5	65.3	18.5	41	sw.	4.5	5.0			9	w.		0	0		Prof. C. de Giorgi.
Cosenza	29.00	736.5	29.87	758.7	67.6	19.8	76	wsw.	2.5	1.1			4	w.		0	0		Prof. D. Conti.
Cagliari	29.67	753 7	29.87	758.6	61.9	16.6	44	se.			2		10			0	0		Prof. A. Pacinotti.
Palermo	29.67	753.6	29.91	759.8	64.6	18.1	56	ne.	3.8	1.7			10			0	0		Prof. G. Cacciatore.
Syracuse	29.82	757.4	29.86	758.5	69.1	20.6	54	wsw.	3.8	1.7			10	sw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.38	746.3	29.90	759.5	60.8	16.0	63	sw.	15.4	6.9			10	nw.		0	0		Prof. F. Brioschi.
Stelvio	21.78	553.2			31.6	— 0.2	91	s.			2		10			2.756	70.0	covered	Prof. P. F. Denza.
Valdobbia	21.82	554.2			28.4	— 2.0	79	se.			2		10			5.906	150.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.18	766.6	30.21	767.5	46.7	8.2	67	calm			0	10c;ck	0			0	0	cloudy	H. Hattori.
Awomori	30.21	767.3	30.24	768.1	41.5	5.3	82	s.	1.5	0.7			8 s			0	0	overcast	K. Ogawa.
Hamamatsu	30.17	766.3	30.20	767.0	55.3	12.9	65	ene.			4		10 s			0.142	3.6	overcast	
Kagoshima	29.84	757.9	29.85	758.2	66.0	18.9	83	ene.			4		10 s			0.008	0.2	overcast	G. Miyanonaga.
Kioto	29.92	759.9	30.09	764.3	59.6	15.3	71	ne.	6.8	3.0			10 s			0.071	1.8	cloudy	M. Tojima.
Miasaka	29.91	759.6	29.93	760.3	63.7	17.6	96	ne.			4		10 n		e.	2.311	58.7	raining	K. Masusaki.
Miyako	30.15	765.8	30.26	768.6	42.1	5.6	77	wsw.	1.4	0.6		0	0			0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.59	751.6	29.79	756.6	66.2	19.0	69	e.	5.1	2.2			10 s		sw.	0.010	0.2	overcast	S. Takehayashi.
Niigata	30.10	764.5	30.13	765.3	51.4	10.8	70	ne.	12.1	5.4			10ck;s		n.	0.255	6.5	covered	M. Morita.
Nobiru	30.22	767.7	30.24	768.1	46.6	8.1	77	e.	2.0	0.9			10ks;s			0.235	6.0	covered	H. Midzushima.
Numazu	30.20	767.1	30.24	768.0	52.4	11.3	59	ne.			4		10 ks			0.157	4.0	cloudy	R. Kaneda.
Osaka	30.02	762.6	30.04	763.0	60.4	15.8	69	e.	12.5	5.5			10 s			0.045	1.1	cloudy	H. Omura.
Tokei Obs'y, Yeddo	30.17	766.4	30.25	768.4	52.1	11.2	69	se.	5.4	2.4		0	2 s			0.030	0.8	clear	The Staff.
Wakayama	29 97	761.2	30.02	762.5	62.0	16.7	77	se.	1.0	0.4			10 n			0.047	1.2	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.05	763.3	75.0	23.9	71	se.	16.0	7.2			10 k;ks		se.	0.04	1.0	overcast	The Staff.
MEXICAN.																			
Guanajuato	23.70	602.1	29.92	760.1	61.7	16.5	69	calm	0	0		3 cs	0	w.		0	0	foggy	Prof. Vicente Fernandez.
Leon	24.33	618.0	30.02	762.5	57.0	13.9	68	calm	0	0		4 c	1 s	sw.		0	0	fair	Prof. M. Leal.
Mazatlan	29.70	754.4	29.97	761.2	68.5	20.3	92	e.	0.9	0.4			10 n		sw.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Zacatecas																			J. A. Bonilla, M. E.
Sub-series.																			
Altata					51	10.6	100	ne.	5.2	2.3		0	0			0	0	foggy	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.82	757.4	29.82	757.4	46.4	8.0		nnw.			4					0	0		
Groningen	29.63	752.5	29.68	753.9	43.3	6.3		nw.			2					0	0		
Helder	29.74	755.3	29.74	755.3	43.7	6.5		nw.			4					0	0		
Hellevoetsluis	29.78	756.4	29.78	756.4	46.9	8.3	65	nw.			2					0	0		
Utrecht	29.72	754.9	29.77	756.1	48.0	8.9	63	nw.			2		10			0.008	0.2	dull	H. van der Brink
Sub-series.																			
Batavia, Java	29.79	756.6			81.5	27.5	85	e.	0	0			6			0	0		Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.64	752.8	29.70	754.4	43.2	6.2	29	nne.	16	7			4			0	0		
Brono	29.85	758.1	29.89	759.1	37.2	2.9	71	ne.			6		2			0	0		
Christiania	29.50	749.3	29.65	753.1	40.8	4.9	29	ne.	27	12			5			0	0		
Gjæsvær	30.18	766.6	30.21	767.2	34.2	1.2		se.			4		0						
Lodingen	30.01	762.2	30.06	763.4	35.1	1.7	38	ene.			4		2			0	0		
PORTUGUESE.																			
Angra, Azores	29.91	759.6	30.06	763.6	58.1	14.5	70	n.	11.2	5.0			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.80	731.5	29.79	756.7	58.1	14.5	33	ssw.	6.3	2.8			8			0.039	1.0		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.85	758.2	29.94	760.5	63.3	17.4	64	wsw.	12.5	5.6			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.43	747.6	29.77	756.1	57.2	14.0	67	ssw.	15.4	6.9			4			0.091	2.3		The Staff.
Ponta Delgada, Azores	29.96	760.9	30.03	762.7	60.8	16.0	56	n	15.0	6.7			3			0	0		
Saint Paul de Loando																			
Serra da Estrella	25.00	635.0	29.83	757.7	34.5	1.4	100	ese.	26.6	11.9			10			0.665	16.9	foggy	
RUSSIAN.																			
Akmolinski	28.67	728.3	29.71	754.7	64.4	18.0	35	wsw.	18	8		0 ck	0			0	0		Major K. Lasarew.
Archangel	30.14	765.5	30.16	766.0	34.9	1.6	63	e.	18	8		0	8 ks			0	0		Capt. Sselliwerstow.
Ashurada	29.80	758.5	29.77	756.1	67.5	19.7	76	wnw.	13	6		cs	8 n			blank	blank	light clouds	
Astrakhan	29.75	755.7	29.67	753.6	55.2	12.9	77	nw.	25	11			10ks;n			0.008	0.2		Capt. Wisganow.
Baku	29.87	758.6	29.82	757.4	64.6	18.1	68	calm	0	0		0	0			0	0		
Barnaul	29.41	747.1	29.90	759.5	59.5	15.3	28	se.	9	4			10			0	0		Meteorological Obs'y
Bielosersk	29.36	745.8	29.83	757.6	52.9	11.6	62	ene.	16	7		0	8 ks			0.024	0.6		
Dorpat	29.66	738.0	29.30	744.2	44.2	6.8	94	ssw.	7	3			10ks;n			0.105	4.2	raining	Observatory.
Ekaterinburg	28.97	735.8	29.95	760.7	39.0	3.9	53	nw.	13	6		ck	8 k			inap.	inap.		Meteorological Obs'y
Elisawetgrad	29.17	740.8	29.60	751.9	64.4	18.0	53	sw.	5	2		0	7 ks			0	0		
Irkutsk	28.69	728.6	30.38	771.7	38.7	3.7	47	nw.			3		8			0	0		
Kasalinsk					90.7	32.6	24	s.	9	4			10 k						
Kasan	29.69	754.2	29.96	760.9	56.7	13.7	34	ne	11	5		0	0			0	0		Observatory.
Kem	29.97	761.1	30.02	762.4	28.4	— 2.0	88	e.	45	20			10			0.071	1.8	hvy. clouds	
Kertch	29.71	754.6	29.73	755.2	62.1	16.7	71	sw.	9	4		0	5 ks			0.094	2.4		Lagorio & Saltyres.
Kieff	28.93	734.8	29.55	750.5	59.0	15.0	60	se.	11	5		0	8 ks			0.165	4.2		Observatory.
Koslov	29.22	742.1	29.74	755.4	57.4	14.1	60	se.	5	2			10 kn			0	0		
Libau	29.43	747.6	29.46	748.2	33.6	0.9	87	wnw.	9	4			10			0.079	2.0	snowing	E. Quass.
Lugan	29.40	746.7	29.58	751.3	61.3	16.3	71	ssw.	9	4			6			0.181	4.6		Meteorological Obs'y.
Moscow	29.25	742.9	29.72	754.8	55.8	13.3	48	s.	13.4	6.0			10 n			0	0		Meteorological Obs'y
Nikolaiev	29.59	751.5	29.66	753.4	66.2	19.0	58	sw.	5	2		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.29	769.4	30.38	771.6	32.7	0.4	76	calm	0	0			10			0.008	0.2		Iwanow.
Pekin, China	29.85	758.1	29.99	761.7	54.9	12.7	73	se.	5.6	2.5		1 cs	0			0.433	11.0		Physical Observatory.
Petro-Alexandrovsk	29.34	745.1	29.66	753.4	91.4	33.0	15	se.	1.1	0.5		0	4 ks			0	0		
Petrozavodsk	29.53	750.1	29.74	755.3	34.3	1.3	96	se.	33	15			10			0.169	4.3		Dr. Bergmann.
Pinsk	28.99	736.4	29.48	748.7	58.8	14.9	51	w.	7	3		0	3 k			0.039	1.0		
Poti	29.85	758.3	29.89	759.1	62.6	17.0	88	wnw.	4	2		0	0			0.524	13.3		
St. Petersburg	29.41	747.1	29.44	747.7	47.1	8.5	87	se.	13	6			10 n			0.142	3.6	light rain	Central Physical Obs'y.
Samarkand	27.35	694.7	29.68	753.8	79.5	26.4	38	e.	3.4	1.5		0	0			0	0		
Semipalatinsk	29.22	774.2	29.84	758.0	71.4	21.9	18	se.	9	4			5			0	0		Major Lasarew.
Sevastopol	29.49	749.1	29.71	754.7	64.2	17.9	62	s.	20	9		0	1 s			0.217	5.5		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Staroi Rykhov	29.12	739.6	29.58	751.2	51.3	10.7	79	se.	11	5			10			0	0		
Tashkend	28.12	714.3	29.68	753.9	83.1	28.4	27	n.	9	4		0	0			0	0		Terch, A. M.
Tiflis	28.48	723.3	29.87	758.7	63.0	17.2	47	nnw.	11	5			9 ks			inap.	inap.		Physical Observatory.
Vernoe	27.28	692 9	29.64	752.9	77.4	25.2	24	e.	9	4		0	1 k			0	0		
Viatka	29.43	747.4	30.06	763.6	44.6	7.0	31	ne.	2	1			2			0	0		
Warsaw	29.14	740.2	29.57	751.0	44.8	7.1	71	w.	11	5			10 kn			0	0	heavy clouds	Astronomical Obs'y.
Yeniseisk	30.12	765.0	30.41	772.4	48.7	9.3	47	se.	5	2			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.18	766.6	44	6.7	92	ne.			6		10			0	0	overcast	J. Youngclause
North Unst			29.97	761.2				n.			6	0	7						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.73	755.2	29.84	757.8	62.6	17.0	48	sw.	4.0	1.8		0	1 k			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.77	756.2	29.83	757.7	60.4	15.8	57	nw.	2.9	1.3		4	5	nw.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.88	682.7	29.84	757.8	52.7	11.5	72	w.	9.4	4.2		0	8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.63	701.9	29.85	758.2	56.1	13.4	62	se.	4.9	2.2		0	5			0.059	1.5	cloudy	The Staff.
Murcia, Met. Obs'y	29.70	754.3	29.83	757.8	70.3	21.3	57	s.	5.6	2.5		5	1	nw.		0	0		Olayo Diaz, Director.
Oviedo	28.92	734.5	29.78	765.4	54.5	12.5	78	e.	7.6	3.4		4 c	0	e.		0.047	1.2	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.82	731.9	29.70	754.4	56.7	13.7	66	s	5.6	2.5			9			0.913	23.2	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	761.1	30.03	762.7	75.3	24.1	82	ssw.	3.4	1.5		ck	k	w.	w.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756 4	29.84	759.7	84.5	29.2	71	sw.	34.4	15.4		0	1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.83	757.6	29.93	760.1	59.0	15.0	80	sw.	5.8	2.6		0	8		sw.	0.334	8.5		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.98	761.4	30.07	763.7	83.8	28.8	74	se.	4.7	2.1		2 c	2 k	e.	se.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.85	758.2	29.89	759.2	27.3	— 2.6	92	ne.			7		10					snowing	
Umea	29.60	751.8	29.65	753.1	27.3	— 2.6	96	ne.			8		10			0.165	4.2		
Hernosand	29.50	749.2	29.55	750.5	28.8	— 1.8	84	nne.			7		10			0.067	1.7		
Stockholm	29.21	741.9	29.39	746.4	32.5	0.3	66	n.			6		10					snowing	
Wisby	29.37	746.0	29.43	747.5	32.4	0.2	92	nw.			7		10					snowing	
Sub-series.																			
Upsala	29.26	743.3	29.35	745.5	29.1	— 1.6	98	n.	22.6	10.1			10		n.	0.012	0.3	snowing	S. G. Fineman.
SWISS.																			
Geneva	28.37	719.3	29.75	755.6	52.7	11.5	60	wsw.			3		10			0.350	8.9	covered	The Observatory.
TURKISH.																			
Constantinople			29.76	755.9	72.7	22.4	49	wsw.	15	6.5			6		sw.	0	0		The Observatory.
Valona			29.97	761.1	66.7	19.3		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.00	761.9	67.1	19.5	66	w.			1		6 k;s		s.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.53	673.8			63	17.2	30	w.			3	2 k		e.		0	0	clear	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.30	769.6	30.38	771.6	50	10.0	44	s.	7	3.1			10 s		sw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.39	746.5	30.05	763.3	40	4.4	73	nw.	5	2.2			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.92	633.0	29.74	755.4	42	5.6	48	ne.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assiniboine, Ft., Montana	27.36	694.9	30.20	767.1	22	— 5.6	61	ne.	7	3.1		0	6 s		ne.	0	0	fair	B. O. Lenoir.
Atlanta, Georgia	29.00	736.6	30.17	766.3	52.5	11.4	80	e.	5	2.2		0	0			0.06	1.5	clear	Edward A. Beals.
Atlantic City, New Jersey	30.25	768.3	30.26	768.6	48	8.9	86	ne.	15	6.7		5 c	5 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.16	766.1	55	12.8	74	n.	8	3.6		0	0			1.37	34.8	clear	John Healy.
Baltimore, Maryland	30.29	769.4	30.34	770.6	50	10.0	72	ne.	7	3.1			10 s		e.	0	0	cloudy	Geo. W Feiger.
Barnegat, New Jersey	30.26	768.6	30.28	769.1	48.0	8.9	86	e.	17	7.6		8 c	0	w.		0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.87	758.7	29.89	759 2	30.3	— 0.9		ne.	21	9.4			10 n		ne.	0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.52	724.4	30.08	764.0	32.0	0.0	100	n.	14	6.3			10 n		ne.	0.06	1.5	light snow	A. Pritchard.
Benton, Fort, Montana	27.36	694.9	30.15	765.8	31	— 0.6	81	se.	4	1.8			10 s			0	0	cloudy	S. Wheaton.
Billings, Montana	26.83	681.5	30.01	762.2	29	— 1.7	100	ne.	12	5.4			10 n			0.51	13.0	light snow	T. Gibson.
Bismarck, Dakota	28.41	721.0	30.20	767.1	28	— 2.2	88	ne.	15	6.7		7 c	0			0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.38	771.6	30.41	772.4	48	8.9	77	e.	10	4.5		7 cs	0	sw.		0	0	fair	J. T. Elker.
Boise City, Idaho	27.14	689.3	29.98	761.5	39	3.9	82	n.	2	0.9		0	2 s			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.29	769.4	30.45	773.4	40.0	7.8	60	se.	6	2.7		0	1 s			0	0	clear	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.93	760.2	74.0	23.3	82	se.	8	3.6		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.40	746.7	30.14	765.5	48.7	9.3	60	se	8	3.6			10 s		sw.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota																			F. A. Mellen.
Burlington, Vermont	30.01	762.2	30.30	769.6	49.0	9.4	31	s.	15	6.7		0	0			0	0	clear	D. N. Farnell.
Cairo, Illinois	29.65	753.1	30.05	763.3	62.6	17.0	75	s.	16	7.2		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.07	763.8	30.09	764.3	53	11.7	93	ne.	28	12.5			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.20	767.1	30.23	767.8	52.0	11.1	80	ne.	20	8.9			10 s			0.06	1.5	cloudy	W. E. Smith.
Cape Mendocino, California	29.45	748.0	30.13	765.3	46	7.8	83	calm			0		10 ks			0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	30.08	764.0	30.10	764 5	61	10.1	78	n.	9	4.0		0	9 s		n.	0.93	23.6	cloudy	G. W. Davis.
Charleston, S. Carolina	29.91	759.7	29.96	761.0	56.0	13.3	86	nw.	16	7.2			10 s		n.	5.58	141.7	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.13	765 3	50.4	10.2	63	n.	9	4.0		5 c	0	w.		0.54	13.7	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.38	746.2	30.18	766.6	54.0	12.2	86	w.	2	0.9		0	sk.			0.06	1.5	clear	B. L. Goulding.
Cheyenne, Wyoming	23.85	605.8	29.72	754.9	28.2	— 2.1	80	ne.	8	3.6			10 n			0.06	1.5	light snow	E. McGovern.
Chicago, Illinois	29.29	744.0	29.99	761.7	52.9	11.6	67	se.	1	0.4			10 s			0.05	1.3	cloudy	John Laurens.
Chincoteague, Virginia	30.15	765.8	30.17	766.3	51	10.6	93	ne.	16	7.2			10ks;s		e.	0	0	cloudy	O. F. Dickens.
Cincinnati, Ohio	29.45	748.0	30.10	764.5	54.0	12.2	80	ne.	1	0.4		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.36	745.7	30.09	764.3	51.5	10.8	69	se.	12	5.4		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.08	713.2	29.87	758.7	60	15.6	78	se.	6	2.7		3 cs	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.24	742 7	30.08	764.0	55	12.8	69	se.	6	2.7		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	27.92	709.2	29.82	757.4	63.0	17.2	68	s.	9	4.0		5 cs	0			0	0	fair	J. McGlone.
Davenport, Iowa	29.23	742.4	29.87	758.7	58	14.4	81	s.	8	3.6			10 ks		sw.	0.20	5.1	cloudy	R. R. Martin.
Davis, Fort, Texas	25.09	637.0	29.81	757.2	57	13.9	62	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.30	718.8	30.05	763.3	40	4.4	67	sw.	7	3.1		9 k	0	sw.		0.09	2.3	cloudy	D. Moore.
Deadwood, Dakota	25.38	644.6	29.90	759.4	25	— 3.9	100	ne.	8	3.6			10 n			0.72	18.3	heavy snow	F. Willson.
Delaware Breakwater, Del.	30.21	767.3	30.23	767.8	49	9.4	93	ne.	23	10.3		8 cs	0	ne.		0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.54	623.3	29.70	754.4	45.0	7.2	94	n.	6	2.7			10 n			0.07	1.8	light rain	F. M. Neal.
Des Moines, Iowa	28.93	734.8	29.82	757.4	55	12.8	86	se.	6	2.7			10 s		se.	0.63	16.0	cloudy	F. W. Conrad.
Detroit, Michigan	29.35	745.5	30.05	763.3	51.0	10.6	72	e.	2	0.9		10 ck	0			0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.15	689.0	29.70	754.4	54	12.2	74	n.	11	4.9		9 cs	0			0	0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.23	742.4	29.93	760.2	53.3	11.8	85	calm	0	0			10 s		se.	0.72	18.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.47	748.5	30.22	767.6	37	2.8	61	n.	12	5.4		0	3 k		n.	inap.	inap.	clear	N. B. Conger.
Eagle Pass, Texas	29.11	739.4	29.91	759.7	68.0	20.0	73	se.	6	2.7			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.17	639.3	29.85	758.2	26	— 3.3	80	n.	12	5.4			10 s		n.	0.11	2.8	cloudy	H. R. Boynton.
Eastport, Maine	30.42	772.7	30.48	774.2	44.5	6.9	72	s.	5	2.2		0	hz.			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.05	687.1	29.75	755.6	60	15.6	84	s.	12	5.4		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.71	764.7	29.81	757.2	71.0	21.7	25	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.40	746.7	30.12	765.0	50	10.0	64	se.	16	7.2		0	5 ks		e.	0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.45	748.0	30.11	764.8	34.0	1.1	100	n.	18	8.0			10 n		n.	0.22	5.6	light rain	George Heathcote.
Galveston, Texas	29.97	761.2	30.01	762.2	72	22.2	66	s.	8	3.6		3 c	0			0	0	clear	E. O'C. Macherney.
Grand Haven, Michigan	29.33	745.0	29.99	761.7	48.0	8 9	93	n.	1	0.4			10 n			0.21	5.3	light rain	J. E. Mueller.
Grant, Fort, Arizona	25.15	638.8	29.76	755.9	51	10.0	41	nw.	6	2.7		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.84	757.9	29.86	758.4	58	14.4	100	ne.	38	17.0			10 n		e.	1.96	49.8	light rain	R. M. Crawford.
Helena, Montana	25.80	655.3	29.97	761.2	29	— 1.7	80	s.	8	3.6			10 s			0.47	11.9	cloudy	N. C. Smith.
Huron, Dakota	28.63	727.2	29.98	761.5	36.8	2.7	74	ne.	17	7.6			10 s		ne.	0.02	0.5	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.23	742.4	30.02	762.5	57.8	14.3	56	se.	4	1.8		10 cs	0			0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.94	760.5	29.98	761.5	72.6	22.6	83	se.	12	6.4		0	4 k		s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.72	729.5	29.87	758.7	64	17.8	58	se.	16	7.2		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	30.03	762.7	30.07	763.8	62	16.7	72	nw.	8	3.6		6 k	0	nw.		0.66	16.8	clearing	J. W. Smith.

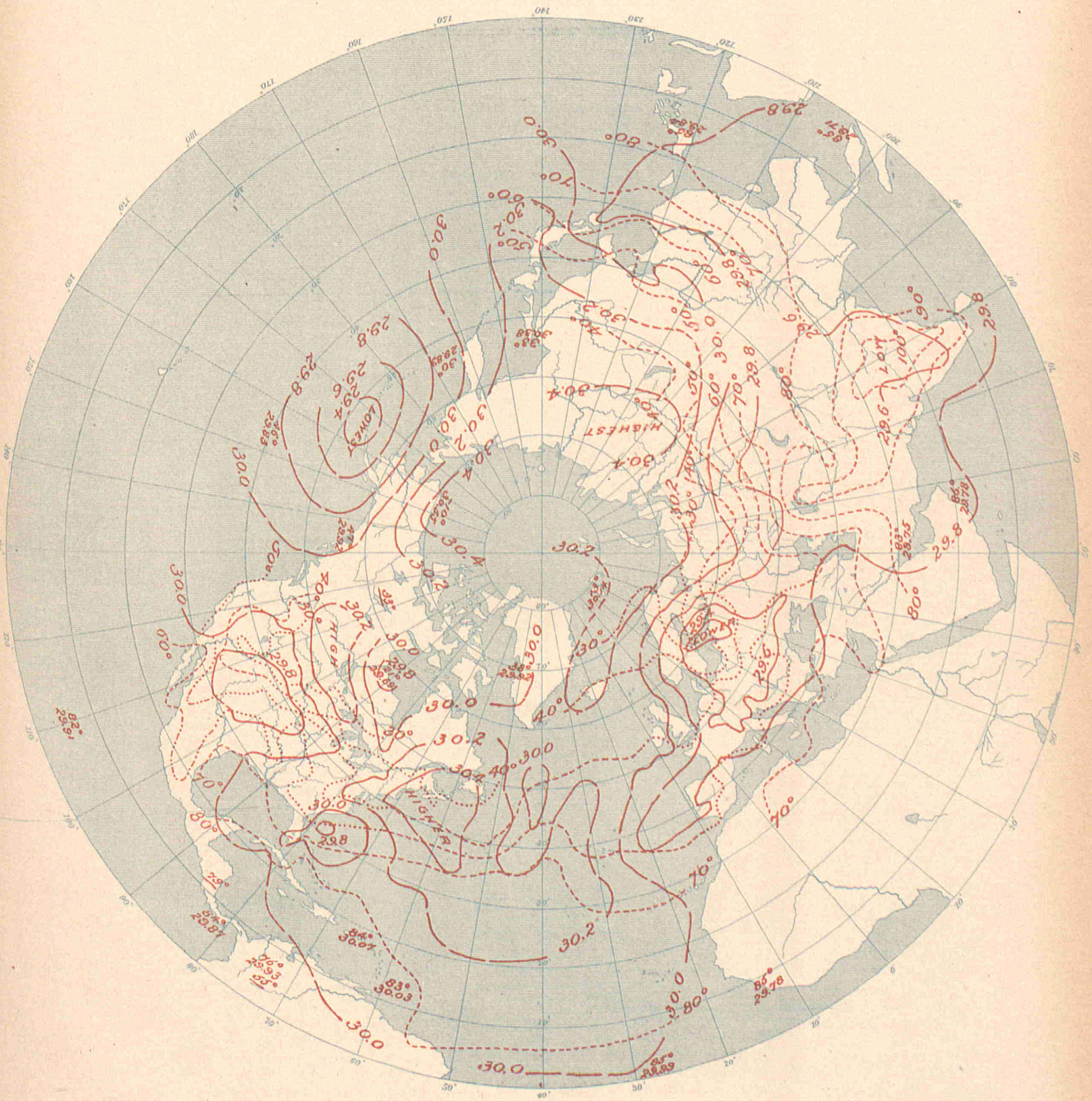
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.64	702.0	30.09	764.3	32	0.0	100	e.	6	2.7			10 n			0.03	0.8	light snow	W. B. Lamar.
Keokuk, Iowa	29.22	742.2	29.87	758.7	58.0	14.4	81	e.	12	5.4			10 s		e.	0.24	6.1	cloudy	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762.0	77.0	25.0	82	n.	10	4.5		2 k	2 ks		e.	0.44	11.2	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.99	761.7	30.01	762.2	53	11.7	100	ne.	36	16.1			10s;fg		ne.	0.12	3.0	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	29.16	740.7	30.18	766.6	51.3	10.7	87	ne.	1	0.4		1 c	fg.			0.20	5.1	clear	J. A. Cody.
La Crosse, Wisconsin	29.21	741.9	29.97	761.2	46	7.8	83	n.	12	5.4			10 s		n.	0.32	8.1	cloudy	S. C. Emery.
Leavenworth, Kansas	28.84	732.5	29.72	754.9	65	18.3	58	s.	9	4.0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.23	742.4	30.07	763.8	43.8	6.6	75	calm	0	0			10 s		w.	0.30	7.6	cloudy	W. Bell.
Little Rock, Arkansas	29.68	753.9	29.98	761.5	59	15.0	81	s.	1	0.4		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.67	753.6	30.07	763.8	48	8.9	86	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.51	749.5	30.06	763.5	58	14.4	69	w	3	1.3		2 c	sk.	w.		0	0	clear	L. M Dey.
Lynchburg, Virginia	29.52	749.8	30.20	767.1	53	11.7	61	ne.	4	1.8		5c;cs	0	ne.		0	0	fair	Lou's Duane.
Mackinaw City, Michigan	29.42	747.3	30.07	763.8	36.1	2.3	89	n.	7	3.1			10 n		n.	0.23	5.8	light rain	D. B. Notson.
Macon, Fort, North Carolina	29.86	758.4	29.87	758.7	59.0	15.0	100	ne.	32	14.3			10 n		ne.	1.52	38.6	light rain	William Daly.
Maginnis, Fort, Montana	25.64	651.2	30.06	763.5	25	— 3.9	64	ne.	10	4.5			10 n		ne.	0.27	6.9	heavy snow	F. Burke.
Marquette, Michigan	29.45	748.0	30.17	766.3	34	1.1	79	nw.	12	5.4			10 s		nw.	0.01	0.3	cloudy	E. H. Thompson.
Memphis, Tennessee	29.72	754.9	30.05	763.3	63	17.2	84	se.	10	4.5		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.24	742.7	29.98	761.5	50	10.0	77	se.	5	2.2			10 n		se.	0.61	15.5	light rain	W. Line.
Missoula, Fort, Montana	26.81	681.0	30.11	764.8	34	1.1	66	ne.	8	3.6			9 s			0.05	1.3	cloudy	J. H. Young.
Mobile, Alabama	30.12	765.0	30.16	766.1	63	17.2	75	e.	4	1.8		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	29.93	760.2	30.16	766.1	59	15.0	77	calm	0	0		0	0			inap.	inap.	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.21	741.9	30.19	766.8	31	— 0.6	88	ne.	10	4.5		0	0			inap.	inap.	clear	H. Bessaut.
Mt. Washington, N. H.	23.96	608.6	30.14	765.5	22.0	— 5.6	76	s.	52	23.2		9 k	0	sw.		0	0	cloudy	S. W. Beall.
Nashville, Tennessee	29.55	750.6	30.12	765.0	62.0	16.7	70	s.	4	1.8		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.28	769.1	30.40	772.1	45	7.2	68	e.	6	2.7			10s;hz			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.41	772.4	30.46	773.7	49	9.4	56	e.	8	3.6		10 k	0	e.		0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	69.5	20.8	81	e.	10	4.5		0	3 ks		s.	0	0	cloudy	H. C. Smyth.
New York, New York	30.19	766.8	30.37	771.4	46.5	8.1	76	ne.	11	4.9		4 cs	5 s	sw.		0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	30.07	763.8	30.10	764.5	55	12.8	86	ne.	14	6.3			10 s		ne.	0.02	0.5	threatening	Wm. Davis.
North Platte, Nebraska	26.91	683.5	29.78	756.4	40.6	4.8	89	n.	12	5.4			10 n			0.03	0.8	light rain	E. F. Brady.
Olympia, Washington T'y	30.14	765.5	30.18	766.6	42.0	5.6	100	calm	0	0			fg.			0.03	0.8	dense fog	J. Dascomb.
Omaha, Nebraska	28.57	725.7	29.73	755.1	56.5	13.6	81	e.	8	3.6			10 s		se.	1.02	25.9	cloudy	A. Pollak.
Oogiaamie, Alaska	30.53	775.4	30.55	776.0	—10.2	—23.4	100	ene.	16	7.2		0	2 s			0	0	clear	P. H. Ray.
Oswego, New York	29.88	758.9	30.21	767.3	49.0	9.4	63	se.	12	5.4		8 cs	hz.	w.		0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.45	748.0	30.00	762.0	63.0	17.2	90	s.	8	3.6		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.15	765.8	63.3	17.4	76	ne.	10	4.5		0	1 s		ne.	0	0	clear	M. McGauran.
Philadelphia, Pa	30.24	768.1	30.34	770.6	47	8.3	93	ne.	14	6.3		8 ck	0	s.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.60	447.0	29.66	753.4	10	—12.2	87	sw.	20	8.9		0	0			0	0	clear	H. Hall.
Pioche, Nevada	23.92	607.6	29.84	757.9	28.5	— 1.9	75	n.	2	0.9		0	0			0.15	3.8	clear	F. R. Day.
Pittsburg, Pennsylvania	29.38	746.2	30.18	766.6	49.0	9.4	74	e.	1	0.4		0	0			0	0	clear	W. A. Reid.
Poplar River, Montana	28.14	714.7	30.26	768.6				se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.36	745.7	30.04	763.0	47.0	8.3	86	se.	8	3.6			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	30.40	772.1	30.45	773.4	50.0	10.0	64	s.	6	2.7		9 ck	0	nw.		0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.06	763.5	30.13	765.3	49.1	9.5	86	s.	3	1.3			10 s		s.	0.01	0.3	cloudy	M. L. Hearne.
Portsmouth, N. C.					60	15.6	100	ne.	44	19.7			10 n		ne.	1.47	37.3	light rain	F. P. Chaffee.
Prescott, Arizona	24.66	626.4	29.76	755.9	36.0	2.2	56	sw.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.41	772.4	30.44	773.2	48	8.9	63	se.	13	5.8		3 cs	2 s	sw.	sw.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.99	761.7	30.00	762.0	70.5	21.4	80	n.	10	4.5		0	0			0.15	3.8	clear	W. J. Evans.
Red Bluff, California	29.78	759.4	30.13	765.3	44	6.7	93	nw.	2	0.9		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.51	749.5	30.17	766.3	47	8.3	63	sw.	10	4.5		5 c;hz	hz.			0	0	fair	E. W. McGann.
Roseburg, Oregon	29.61	752.1	30.16	766.1	44.5	6.9	93	sw.	2	0.9		0	8 s		s.	0.02	0.5	cloudy	J. J. Nanry.
Sacramento, California	30.06	763.5	30.14	765.5	45.0	7.2	80	se.	7	3.1		0	0			inap.	inap.	clear	J. A. Barwick.
St. Louis, Missouri	29.31	744.5	29.90	759.4	60.0	15.6	90	s.	10	4.5		7 c; k	2 s	w.		0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.87	758.7	29.90	759.4	32	0.0	92	ne.	6	2.7		0	8 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.20	741.7	30.04	763.0	38.5	3.6	72	ne.	13	5.8		8 cs	0	n.		inap.	inap.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.44	747.8	30.30	769.6	30	— 1.1	77	ne.	8	3.6		8 k	0	ne.		0	0	cloudy	C. B Dilley.
Salt Lake City, Utah	25.52	648.2	29.84	757.9	35	1.7	82	calm	0	0			10 n			0.57	14.5	heavy snow	J. Craig.
San Antonio, Texas	29.27	743.4	29.97	761.2	64	17.8	90	calm	0	0		0	4 k		se.	0	0	fair	J. H. Davis.
San Diego, California	29.96	761.0	30.03	762.7	46.6	8.1	80	ne.	4	1.8		0	0			0	0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	30.32	770.1	30.36	771.1	48.0	8.9	86	ne.	16	7.2		10 k	0	ne.		0	0	cloudy	B. A. Blundon.
Sanford, Florida	30.01	762.2			62	16.7	72	ne.	16	7.2			10 ks		ne.	0.85	21.6	cloudy	J. B. Marbury.
San Francisco, California	30.10	764.5	30.17	766.3	47.5	8.6	89	w	7	3.1		0	fg.		w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.10	586.7	29.71	754.6	47	8.3	31	sw.	9	4.0		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.97	761.2	30.06	763.5	58	14.4	72	n.	21	9.4			10 ks		n.	2.19	55.6	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.47	672.3	30.07	763.8	26	— 3.3	88	w.	5	2.2			10 n			0.30	7.6	light snow	A. L. Mathews.
Shreveport, Louisiana	29.78	756.4	30.02	762.5	63.2	17.3	87	s.	4	1.8		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.61	726.7	29.83	757.7	60.5	15.8	80	se.	6	2.7		2 c	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.86	758.4	29.92	760.0	47.1	8.4	86	w.	10	4.5		0	4 s		w.	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.46	748.3	29.93	760.2	59.5	15.3	70	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.82	757.4	29.86	758.4	58	14.4	93	ne.	24	10.7			10 n		ne.	1.86	47.2	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.06	712.7	30.12	765.0	35	1.7	82	e.	1	0.4		3 ck	0			0.15	3.8	clear	John F. Hemenway.
Springfield, Illinois	29.31	744.5	29.98	761.5	58	14.4	70	e.	6	2.7			10 n		w.	0.01	0.3	thund'r st'm	T. B. Jennings.
Springfield, Missouri	28.45	722.6	29.87	758.7	60.5	15.8	65	s.	12	5.4		0	0			0	0	clear	J. H. Bryce.
Starkville, Miss.	29.67	753.6	30.14	765.5	62	16.7	78	se.	11	4.9		0	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.41	721.6	30.24	768.1	27	— 2.8	77	ne.	5	2.2		2 c	5 s			0	0	fair	A. Schneider.
Stockton, Fort, Texas	26.84	681.7	29.85	758.2	61	16.1	78	se.	10	4.5		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.37	771.4	30.42	772.7	43.0	6.1	78	se.	4	1.8		0	0			0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.15	689.0	29.82	757.4	52	11.1	69	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.35	745.5	30.03	762.7	52	11.1	59	sw.	3	1.3		0	1 s			0	0	clear	A. Buell.
Tucson, Arizona	27.40	697.5	29.80	756.9	49	9.4	46	sw.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.22	742.2	29.24	742.7	34	1.1	89	se.	3	1.3			10 n			0.61	15.5	light snow	Samuel Applegate.
Verde, Fort, Arizona					58	14.4	34	sw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.83	757.7	30.08	764.0	62.4	16.9	86	se.	10	4.5		0	0			0	0	clear	James Kenealy.
Visalia, California	29.74	755.4	30.11	764.8	46.0	7.8	81	n.	3	1.3		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.37	619.0	29.85	758.2	22.8	— 5.1	95	se	2	0.9			10 n			0.64	16.3	heavy snow	T. M. Ambler.
Washington, D. C.	30.19	766.8	30.30	769.6	49.0	9.4	86	ne.	6	2.7			10 s		ne.	0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.77	654.5	29.62	752.3	53	11.7	44	w.	3	1.3		3 c	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.69	754.1	30.29	769.4	50.5	10.3	68	e.	15	6.7		0	4 ks			inap.	inap.	fair	B. F. Hough.
Wilmington, N. Carolina	29.86	758.4	29.91	759.7	58	14.4	93	n.	14	6.3			10 n		ne.	1.79	45.5	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.59	650.0	29.94	760.5	34	1.1	76	sw.	8	3.6		0	9 s		w.	0.31	7.9	cloudy	J. Grover.
Yankton, Dakota	28.64	727.4	29.92	760.0	39	3.9	82	ne	22	9.8			10 s			0.49	12.4	cloudy	J. H. Atfield.
Yuma, Arizona	29.75	755.6	29.90	759.4	57.6	14.2	48	nw.	2	0.9		0	hz.			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			55.0	12.8	61	s.	2	0.9		4c;cs	2ks;s		nw.	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.06	763.5			60	calm	0	0		5 c	0			0	0	fair	Robrt Johnston.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	80	26.7	82	ne.			3	5 ck	5 k	e.		0.240	6.1	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	746.0	29.93	760.2	76	24.4	94	calm			0	6 c	2 ks	calm	s.	2.35	59.7	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79	26.1	87	ne.			2					0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
Santiago de Cuba, W. I.																			R. Mason.
York Factory, B. A.	29.62	752.3	29.69	754.1	20.5	— 6.4	93	w.	8	3.6		0	1 s		w.	0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, Malta, Mediterranean	29.91	759.7	72	22.2	62	ese.			1		2	ese.						d. clouds.
H. M. S. Dido, Barbadoes, W. I.	30.06	763.5	81	27.2		e.			2		6	w				1	se.	d. clouds.
H. M. S. Iris, Port Said, Egypt	30.00	762.0	68	20.0	72	nw.			2		1	nnw.						blue sky.
H. M. S. Minotaur, N. 34° 58′, W. 8° 26′	29.87	758.7	63	17.2	70	ssw.			4		6	nnw.				2	nw.	d. clouds.
H. M. S. Rocket, N. 32° 00′, W. 42° 40′	30.29	769.4	73	22.8	81	calm			0		2							d. clouds.
H. M. S. Tenedos, Halifax, N. S.	30.58	776.7	41	5.0	74	calm			0		3							blue sky.
U. S. Navy Yard, Pensacola, Fla.	30.04	763.0	64	17.8	73	ne.	6	2.7			2		ne.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H*	30.39	771.9	49	9.4	78	se.	4	1.8			5		sw.	0	0			fair.
U. S. S. Alliance, N. 25° 30′, W. 79° 30′	30.02	762.5	76	24.4	91	nnw.			3		8			h'vy	h'vy	sm'h		cloudy.
U. S. S. Colorado, New York, N. Y.	30.43	772.9	48	8.9	70	e.	4	1.8			10		calm	0	0			cloudy.
U. S. S. Franklin, Norfolk, Va.	30.09	764.3	56	13.3	87	ne.	11	4.9			10		ne.	0.03	0.8			cloudy.
U. S. S. Jamestown, N. 22° 18′, W. 82° 15′	29.88	758.9	80	26.7	70	s.			1		2			0	0	long	n.	fair.
U. S. S. Kearsarge, Charleston, S. C.	30.00	762.0	58	14.4	88	nw.			4		10		n.					cloudy.
U. S. S. Lancaster, Gravesend, Eng.	29.88	758.9	47	8.3	85	nne.			4		10		calm			sm'h		cloudy.
U. S. S. Michigan, Cleveland, Ohio	30.08	764.0	50	10.0	86	s.			5		2		sw.					fair.
U. S. S. Minnesota, New York, N. Y.	30.39	771.9	48	8.9	78	e.			2		10							overcast.
U. S. S. New Hampshire, Newport, R. I.	30.40	772.1	48	8.9	70	ese.			2		10		calm			sm'h		cloudy.
U. S. S. Portsmouth, Hampton Roads, Va.	30.19	766.8	56	13.3	87	ne.			5		10		ne			sm'h		cloudy.
U. S. S. Powhatan, Key West, Fla	29.98	761.5	77.5	25.3	100	n.			1		5		n.					fair.
U. S. S. Quinnebaug, Monrovia, Liberia, Africa	29.95	760.7	82	27.8	87	nw.			1		5		nw.			sm'h		fair.
U. S. S. Saratoga, N. 24° 09′, W. 47° 52′	30.26	768.6	72	22.2	85	ene.			3		5?		ene.	0	0	sm'h	ene.	clear?
U. S. S. St. Louis, League Island, Pa.	30.34	770.6	47	8.3	77	ne.	8.9	4.0			8		se.	0	0			cloudy.
U. S. S. Swatara, Aspinwall, U. S. C. †	29.89	759.2	84	28.9	82	nne.			1		2		nne.	light	light	sm'h		fair.
U. S. S. Tennessee, Fort Monroe, Va.	30.15	765.8	58	14.4	100	nne.	18	8.0			10			0	0			cloudy.
U. S. S. Vandalia, Norfolk, Va.	30.11	764.8	58	14.4	88	ene.			3		10		ne.					cloudy.
U. S. S. Wabash, Boston, Mass.	30.45	773.4	46	7.8	69	e.	2	0.9			2		se.	0	0			fair.
U. S. S. Yantic, Charleston, S. C.	29.96	761.0	58	14.4	94	n.			3–4		8		n.					squally.
Commewyne, N. 23° 16′, W. 55° 02′	30.20	767.1	74.3	23.5	81	e.			4		8							showery
St. Kilda, Demerara, British Guiana	30.01	762.2	81.4	27.4	80	e.			1		3							blue sky.
S. S. Illinois, Philadelphia, Pa*	30.23?	767.8?	50	10.0		nnw.			3		7		se.					fair.
S. S. Lord Gough, N. 39° 50′, W. 58° 44′	30.48	774.2	56	13.3		ne.			4		8		ne.	0	0	mod.	ne.	cloudy.
S. S. Ohio, N. 41° 58′, W. 43° 31′ †	30.06	763.5	63	17.2	89	n.			5		10		n.	24 h'r	24 h'r	mod.	nw.	hazy.
S. S. Pennsylvania, N. 40° 20′, W. 47° 15′ †	30.11	764.8	57	13.9		n.			2		10					sm'h	n.	overcast.
S. S. Circassian, N. 48° 30′, W. 40° 45′	29.92	760.0	55	12.8	93	ssw.			6		10		sw.	4 h'r	4 h'r	3	sw.	raining.
S. S. Grecian, N. 48° 47′, W. 68° 00′	30.36	771.1	40	4.4	73	calm			0		5?		w.	0	0	sm'h		clear.?
S. S. Scandinavian, St. Johns, Quebec*	30.22	767.6	39	3.9		calm			0					0	0			blue sky.
S. S. Antillas, Port Antonio, Jamaica, W. I.			87	30.6		ne.			1									fine.
S. S. Alvo, Arroyo, Puerto Rico, W. I.	30.08	764.0	80	26.7		se.			4–5		6 k		se.	0	0	small	ese.	fine.
S. S. Alene, Colon, U. S. C. †	29.98	761.5	81	27.2		var.			2		2		e.	2 h'r	2 h'r	sm'h	n.	fine.
S. S. Ailsa, Jeremie, Hayti, W. I. †	29.92	760.0	81	27.2														
S. S. Anchoria, N. 55° 36′, W. 8° 38′ †	30.25	768.3				ne.			3		3		ene.	0	0	high	ene.	clear.
S. S. Bolivia, New York, N. Y. *†	30.43	772.9	54	12.2		ene.			2		8		ne.	0	0			cloudy.
S. S. Dorian, N. 34° 08′, W. 31° 00′	30.25	768.3	63	17.2		nnw.			2		4		nw.	0	0	sli't	n.	fine.
S. S. Furnesia, Liverpool, Eng. †	30.00	762.0	55.6	13.1	96	nnw.			2		9		nnw.	0	0			cloudy.
S. S. Elysia, N. 38° 30′, W. 20° 36′	29.72	754.9	57.5	14.2	94	wnw.			6		7		nw.	rain	rain	h'vy	wnw.	squally.
S. S. Llandaff City, Bristol, Eng.			50	10.0		ne.			6		8			sh'rs	sh'rs			cloudy.
S. S. Scythia, N. 48° 46′, W. 29° 25′	30.25	768.3	57	13.9	100	ene.			1		4		ne.	0	0		ne.	clear.
S. S. Canada, N. 47° 42′, W. 31° 10′	30.28	769.0	50.0	10.0		e.			3	c	0	e.		0	0	sm'h	e.	almost cov.
S. S. Pereire, N. 47° 35′ W. 29° 49′ †	30.25	768.3	54.5	12.5		ne.			4		0			0	0	r'gh	n.	clear.
S. S. Ville de Marseilles, N. 21° 51′, W. 85° 40′			83	28.3		se.			3		4		se.	0	0	long	se.	fair.
S. S. Abyssinia, N. 40° 40′, W. 63° 30′			57	13.9	94	e.			6		10		se.	3 h'r	3 h'r	mod.	e.	gloomy.
S. S. Wyoming, New York, N. Y.	30.36	771.1	46	7.8		calm			0		0			0	0			clear.
S. S. Bohemia, N. 49° 02′, W. 14° 06′						e			6		8		e.	0	0	long	e.	hazy.
S. S. Gellert, New York, N. Y.	30.27	768.8	49	9.4	78	ene.			3		7		sw.	0	0			cloudy.
S. S. Russia, N. 41° 25′, W. 50° 59′	30.32	770.1	42	5.6		n.			6		0			5 h'r	5 h'r	r'gh	n.	clear.
S. S. Silesia, N. 49° 50′, W. 6° 26′	30.00	762.0	52.2	11.2		nne.			4		3		nne.	0	0	3	nne.	fair.
S. S. Westphalia, N. 48° 04′, W. 30° 30′	30.35	770.9	51	10.6	93	n.			2		4		n.	0	0	sm'h	ne.	fair.
S. S. City of Berlin, N. 41° 50′, W. 46° 15′	30.05	763.3	54	12.2	93	n.			6		10		ne.	2 h'r	2 h'r	r'gh	n.	overcast.
S. S. Bulgarian, N. 45° 24′, W. 46° 22′*	30.26	768.6				wnw.			5		1		nw.	9 h'r	9 h'r	light	nnw.	clear.
S. S. Ptolemy, N. 1° 45′ W. 30° —	30.01	762.2	82.9	28.3	79	ne.			1	c;cs	4 kn	sse.	ese.	0	0	1	nne.	fair.
S. S. Colorado, Galveston, Texas†	29.95	760.7	67	19.4		se.			3		2		se.	0	0			clear.
S. S. Rio Grande. N. 40° 16′, W. 73° 50′*†	30.40	772.1	52	11.1		e.			3		6		n.	3 h'r	3 h'r	mod.	se.	fair.
S. S. Chalmette, New York, N. Y†	30.42	772.7	55	12.8		ene.			5		8		ne.	0	0			cloudy.
S. S. Lone Star, N. 28° 38′ W. 88° 30′ †	30.05	763.3	72	22.2		ene.			3		2		e.	1 h'r	1 h'r	mod.	ene.	clear.
S. S. Alleghany, Baltimore, Md †	30.27	768.8	52	11.1		e.			1		4		ne.	0	0			fair.
S. S. Archimede, N. 40° 16′, W. 73° 00′ †	30.33	770.4	56	13.3	75	nne.			3		4		nw.	0	0	mod.	ne.	fair.
S. S. City of Washington, N. 21° 58′, W. 87° 55′ †.	30.08	764.0	80	26.7		se.			2		2		e.	0	0	sm'h		clear.
S. S. Denmark, New York, N. Y †	30.29	769.4	48	8.9		ne.			4		10			0	0			cloudy.
S. S. England, N. 41° 17′, W. 47° 05′	30.14	765.5				nne.			5		10		nne.	3 h'r	3 h'r	mod.	nne.	overcast.
S. S. Holland, N. 46° 42′. W. 32° 22′	30.17	766.3	54	12.2		nw.			3		5		nw.	0	0	mod.	n.	fair.
S. S. America, N. 41° 31′ W. 42° 57′*	30.06	763.5	64.0	17.8	94	nnw.			6		9		nnw.	6 h'r	6 h'r	sm'h	wnw.	cloudy.
S. S. Braunschweig, off Cape Henry, Va	30.10	764.5	58.0	14.4	88	ne.			3		10		ne.	0	0	sm'h	ne.	cloudy.
S. S. Donau, N. 49° 45′, W. 8° 08′	30.00	762.0				ne.			4		5		ne.	0	0	mod.	ne.	hazy.
S. S. Elbe, Bremerhaven, Germany	29.66	753.4	43	6.1	93	nw.			4		8		w.	0	0			cloudy.
S. S. Fulda, N. 49° 26′, W. 16° 34	29.98	761.5	54	12.2	87	e.			6		1		e.	0	0	r'gh	e.	clear.
S. S. Habsburg, N. 49° 25′. W. 13° 17′	30.00	762.0				nne.			4		2		nne.	0	0	mod	nne.	clear.
S. S. Hermann, N. 40° 54′, W. 49° 34′	30.33	770.4	57	13.9	78	n.			6		10		n.	3 h'r	3 h'r	r'gh	n.	overcast.
S. S. Main, N. 46° 07′, W. 36° 36′	30.20	767.1	54	12.2		s.			5–6		10		sse.	5 h'r	5 h'r	high	se.	cloudy.
S. S. Oder, N. 40° 31′ W. 49° 13′	30.24	768.1	52.7	11.5		nnw.			6		10		n.	8 h'r	8 h'r	r'gh	nnw.	cloudy.
S. S. Strassburg, N. 49° 48′, W. 7° 50′	30.02	762.5	55.0	12.8	77	ne.			5		8		ne.	0	0	5	ne.	cloudy.
S. S. Weser, N. 50° 46′ E. 0° 39′	29.93	760.2				nne.			2		0			0	0	sm'h		clear.
S. S. Orinoco, New York, N. Y *†	30.40	772.1	63	17.2		n.			1		fg.			0	0			foggy.
S. S. Colon, N. 37° 16′, W. 74° 12′†	30.05	763.3	54	12.2		ne.			6		10		ne.	light	light	mod.	e.	overcast.
S. S. Muriel, Martinique, W. I	29.98	761.5	83	28.3		e.			3		0			light	light	sm'h		clear.
S. S. City of Augusta, Savannah, Ga†	30.09	764.3				nnw.			5		4		nw.	0	0			fair.
S. S. Belgenland, N. 40° 06′, W. 50° 30′ †	30.40	772.1	50	10.0	86	nne.			7		2		nne.	0	0	h'vy	nne.	clear.
S. S. Nederland, N. 49° 18′, W. 18° 58′			52	11.1	93	ne.			5		8		ne.	1 h'r	1 h'r	mod.	ne.	cloudy.
S. S. Rhynland, Antwerp, Belgium	29.77	756.1	49	9.4	71	nw.			4		10		nnw.	0	0			gloomy.
S. S. Pennland, N. 49° 58′ W. 6° 30′	30.07	763.8	52	11.1	73	ne.			6		3		ne.	3 h'r	3 h'r	sm'h		
S. S. Waesland, N. 40° 48′, W. 67° 03′	30.48	774.2	47	8.3		e.			3		6		wnw.	0	0	sm'h	e.	fair.
S. S. Zeeland, Flushing, Netherlands *†	29.80	756.9	54	12.2		nnw.			4				n.	0	0			fair.
S. S. P. Caland, Flushing, Netherlands	29.85	758.2	48.6	9.2	89	ne.			2		10		ne.					drizzling.
S. S. Leerdam, N. 50° 06′ W. 18° 51′	30.06	763.5	66	18.9	59	ne.			5		6		n.			long	ne.	fair.
S. S. W. A. Scholten, N. 40° 27′, W. 58° 50′	30.56	776.2	52.2	11.2	66	ne.			6		0			0	0	5	nne.	clear.
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	81.5	27.5	89	nne.			1		2		calm	0	0	mod.	nne.	clear.
S. S. Claudius, N. 28° 05′, W. 80° 00′†	30.10	764.5	71.0	21.7	83	nw.			3		10			rain	rain	r'gh	nw.	overcast.
S. S. State of Nebraska, N. 47° 25′, W. 36° 33′*†	30.12	765.0	58	14.4		sse.			5		4		se.	0	0	sm'h		fair.
S. S. State of Alabama, N. 40° 52′, W. 59° 44′ *	30.51	774.9	52	11.1		e.			4		1		e.	0	0	sm'h		clear.
S. S. Lepanto, N. 37° 16′ E. 10° 07′*	29.90	759.4	62	16.7		nw.			2		3		nw.	0	0	sm'h		clear
S. S. Otranto, N. 49° 40′, W. 13° 50′	30.11	764.8	59	15.0		ne.			6		6		ne.	0	0	mod.	ne.	fair.
S. S. Romano, New York, N. Y†	30.30	769.6	48	8.9		e.			8		9		e.					cloudy.
S. S. Salerno, N. 36° 31′, W. 0° 05′†	29.95	760.7	63	17.2		nnw.			2		2		w.	0	0	sm'h	wnw.	clear.
S. S. Dominion, N. 49° 23′, W. 39° 05′			52	11.1		sse.			6		10		sse.			mod.	se.	cloudy.
S. S. Toronto, N. 42° 33′, W. 50° 18′	30.25	768.3	44	6.7		n.			6		0			0	0	short	n.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Lake Huron, N. 49° 14′, W. 42° 09′	29.79	756.7	52	11.1		s.			5		10		w.	5 h'r	5 h'r	sm'h	wsw.	raining.
S. S. Lake Manitoba, N. 42° 18′, W. 52° 00′			48	8.9		n.			6		1		n.	0	0	mod.	nne.	clear.
S. S. Daniel Steinmann, Boston, Mass †	30.42	772.7	51	10.6		e.			1		0			0	0			clear.
S. S. Plantyn, N. 40° 11′, W. 71° 58′									1		4		se.			sm'h	ne.	fair.
S. S. Norman, N. 39° 25′, W. 73° 40′	30.25	768.3				ene.			1		5		ene.	0	0	sm'h	e.	fair.
S. S. Saxon, Boston, Mass†	30.40	772.1				ne.			2		2		n.	0	0			clear.
S. S. Adriatic, N. 48° 10′ W. 29° 32′*†	30.38	771.6	56	13.3	87	ene.			4		2		ene.	0	0	sm'h	ene.	clear.
S. S. Republic, N. 40° 30′, W. 60° 27′†	30.36	776.2	53	11.7		ne.			2		2		e.	1 h'r	1 h'r	2	e.	clear
S. S. Assyrian Monarch, off Dungeness, Eng	29.74	755.4	47	8.3		ne.			5		7		ne.					fair.
S. S. Antonio Lopez, Havana, Cuba, W. I	30.05	763.3	75	23.9	90	s.			1		0			0	0			hazy.
Schr. Abbie H Gheen, Brooklyn, N. Y †.	30.42	772.7	45	7.2		ne.			4					0	0			clear.
Bg. Abbie Clifford, N. 18° 09′, W. 65° 44′†.	30.06	763.5	78	25.6		e.			4		9		e	¾ h'r	¾ h'r			cloudy.
Bk. Aquidneck, N. 13° 48′, W. 55° 02′						var.			6				ne.	0	0	light	ne.	clear.
Bg. Alcira, N. 29° 47′, W. 67° 33′	30.17	766.3	76	24.4		sse.			4		6		se.	0	0	mod.	se.	hazy.
Bk. Adelaide, N. 32° 41′, W. 57° 43′ *†	30.39	771.9	73	22.8		ene.			5		1		var.	0	0	mod.	ne.	fair.
Schr. Annie R Lewis, N. 37° 50′, W. 73° 00′†	30.20	767.0	66	18.9		e.			5		10		e.	2 h'r	2 h'r	r'gh	ese.	raining.
Bk. Aureola, Barbadoes, W. I†	29.90	759.4	89	31.7		ene.			2		3		ene.	0	0			clear.
Bk. Achille F., N. 44° 30′, W. 17° 30′†	29.84	757.9	53	11.7	79	nne.			7		4		ne.	4 h'r	4 h'r	h'vy	ne.	fine.
Bk. Alba, N. 61° 12′, W. 49° 24′*†	30.17	766.3	34.5	1.4		ssw.			2									
Bk. Annie R. Storer, N. 35° 30′, W. 73° 05′ †	29.95	760.7				e.			9		10		e.	20 h'r	20 h'r	r'gh	ene.	stormy.
Bgt. Achsah, Kingston, St. Vincent, W. I†	29.94	760.5	82	27.8		e.			2		4		ene.	2 h'r	2 h'r			fair.
Bk. Champion, N. 21° 25′, W. 30° 00′			72	22.2	80	ene.			4		2		nne.	0	0	sm'h		clear.
Bkt. C. S. Bushnell, N. 33° 50′, W. 45° 40′	30.22	767.6				calm			0		8		nw.	2 h'r	2 h'r	mod.		rainy.
S. Cornelius, N. 46° 35′, W. 35° 08′†	30.22	767.6	59.0	15		ese.			6		2			0	0	long	ne	fair.
Bk. Commerce, N. 28° 44′, W. 63° 05′			75	23.9		e.			3		2		e.	0	0	sm'h	se.	fine.
S. David Steward, Chesapeake Bay†	30.24	768 1				ne.			3		2		ne.	0	0			
S. S. D. J. Foley, Kingston, Jamaica, W. I*†	30.03	762.7	80	26.7	78	se.			1		2		e.	0	0			clear.
Bk. Don Justo, N. 35° 06′ W. 75° 00′						ne.			7		2		ne.	8 h'r	8 h'r	r'gh	ne.	clear.
Schr. Edith R. Seward, N. 29° 30′, W. 67° 00†	30.16	766.1	76	24.4		sse.			2		7		s	0	0	sm'h	se.	cloudy.
S. E. J. Spicer, Liverpool, Eng	29.90	759.4	50	10.0	86	ene.			3		10		ne.	0	0			cloudy.
Bk. E. D. Bigelow, Annapolis, N. S						n.			1		0			0	0			clear.
U. S. Fish. Com. S. S. Fish Hawk, Quantico Creek, Va†	30.34	770.6	57	13.9	94	n.			4		10		nw.	0	0			cloudy.
Schr. F E. McDonald, Cedar Keys, Fla†	30.03	762.7				ne.			4					2 h'r	2 h'r			cloudy.
Schr. Festina Lente, N. 42° 07′, W. 63° 58	30.48	774.2	45	7.2		ene.			4		5		n.	0	0	sm'h	ne.	fine.
Bg. Gipsy Queen, Cardenas, Cuba, W. I*†	30.00	762.0							1									overcast.
Bk. Godeffroy, N 24° 46′, W. 65° 31′*	30.13	765.3	78.3	25.7	79	ese.			2–3		4		var.	0	0	light	e.	fair.
Bg. Galeon, N. 21° 50′ W. 87° 00′ †	29.97	761.2	78	25.6		sse.			3		0			0	0	sm'h	se.	misty.
S. Hedwig, N. 35° 55′, W. 64° 15′	30.27	768.8	66.0	18.9	89	e.			6		10		e.	1 h'r	1 h'r	4	ene.	
Bk. Hattie G. McFarland, Sandy Hook, N. J*†.	30.25	768.3	50	10.0		e.			5		4		w.	0	0			threatening.
Bk. John H. Pearson, N. 34° 48′, W. 55° 30′						ene.			5				ene.	0	0	sm'h	nnw.	clear.
Schr. Isabel Alberto, N. 31° 50′, W. 78° 20′†	29.70	754.4				n			7		10		n.	hv'y	h'vy	h'vy	n.	stormy.
Bk. Cato, Setubal, Portugal*†	29.85	758.2				ssw.			4		4		ssw.	0	0			fair.
Schr. John L. Thomas, N. 24° 10′, W. 82° 00′ *†	30.12	765.0				w.			1		2		nw.	½ h'r	½ h'r	light	sw.	clear.
Bg. John Wesley, Baley's Mills, Ga*†	30.03	762.7				nnw.			4		2		nnw.	11 h'r	11 h'r			heavy rain.
Schr. Jennie N. Huddell, Wilmington, N. C†	29.96	761.0	61	16.1	88	ne.			5		2		ne.	18 h'r	18 h'r			stormy.
Schr. Leonessa, N. 33° 20′, W. 77° 05′†	29.81	757.2				ne.			9		10		ne.	12 h'r	12 h'r	h'vy	ne.	
Bg. L. & W. Armstrong, St. Juan, Porto Rico, W. I*†.	30.02	762.5				calm			0		0			0	0			clear.
Light House Tender, Laurel, off Cedar Keys, Fla†	30.07	763.8	65	18.3		nne.			3		8		nne.	0	0			cloudy.
Bg. Lilian, N. 29° 30′, W. 58° 30′ †	30.13	765.3	76	24.4		sse.			2		8		se.	0	0	mod.	e.	cloudy.
Bk. Louise Adelaide, Great Isaac Island, W. I†	29.96	761.0	80	26.7		nw.			2		3		nw.	2 h'r	2 h'r	sm'h	w.	fair.
S. S. Madrid, N. 36° 05′, W. 5° 00′ †	29.90	759.4	61	16.1	71	w.			2		2		w.	0	0	sm'h		fair.
Schr. Minnie A. Bonsall, Brunswick, Ga†	30.08	764.0	67	19.4		nnw.			5		8		n.	12 h'r	12 h'r			fair.
Bkt. Kryolith, N. 50° 37′, W. 10° 45′ *†	30.00	762.0				ene.			5		2		ene.	0	0	mod.	ne.	hazy.
S. Mt. Washington, N. 32° 25′, W. 40° 15′*†	30.36	771.1	78	25.6	73	calm			0		4			0	0	sm'h		fair.
Bgt. Myrtle, Clementsport, N. S *†	30.45	773.4				nw.			2		0			0	0			clear.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†	30.01	762.2							2		2		e.	0	0			clear.
Bg. O. C. Clary, N. 27° 27′, W. 69° 24′*†.	30.10	764.5	77	25.0		s.			3		1		ssw.			sm'h	s.	clear.
S. S. Raleigh, off Absecum, N. J†	30.21	767.3	47	8.3		se.			4		5		se.			mod.	ese.	clearing.
S. Rudolph, N. 41° 33′, W. 33° 10′			57.5	14.2		e.			2		5		ese.	0	0	mod.	var.	fair.
Bk. Rebus, N. 39° 43′, W. 53° 14′	30.32	770.1	52	11.1		nne.			6		4		nne.	0	0	rg'h	nne.	fair.
Bg. Rising Sun, N. 22° 38′, W. 68° 30′*†	30.02	762.5	84	28.9		e.			4		2		e.	0	0	mod.	ene.	
Bk. Rosalie, N 28° 14′, W. 60° 44 *†	30.19	766.8				sse			3				ssw.	½h'r	½h'r	light	sse.	cloudy.
S. Salisbury, N. 45° 08′, W. 20° 00′*	29.99	761.8	55.0	12.8	83	ne.			6		5		ne.	½h'r	½h'r	cross	var.	fair.
Bk. Southern Belle, off Cape St. Vincent, Portugal †.	29.82	757.4	60	15.6		wsw.			3		2		w.	shr's	shr's	sm'h		squally.
S. St. Francis, N. 0° 40′ W. 28° 45′†	29.99	761.7	85	29.4	68	n.			3		2		ne.	3 h'r	3 h'r	mod.	ne.	fair.
Bk. St. Lawrence, N. 30° 57′, W. 54° 58′*†	30.10	764.5				ssw.			1				ssw.	0	0	sm'h		fine.
Bkt. Sunlight, N. 28° 00′, W. 56° 36′*†	30.42	772.7				sse.			2		3		sse.	½h'r	½h'r	mod.	se.	fair.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	29.96	761.0				n.			1		0							
Bk. Tuck Sing, off Highlands, N. J*†	30.30	769.6				ene.			3		2		ese.	0	0	mod.	ese.	fair.
S Vincenzo Accame, N. 38° 20′, W. 38° 42′†.	30.23	767.9	71.6	22.0		w.			4		3		nw.	1⅝h'r	1⅝h'r	light	e.	fine.
Bk. Winifred, N. 2° 52′, W. 38° 38′ *†	30.00	762.0											ne.	0	0		ne.	clear.
S. Wm. Wilcox, Sandy Hook, N. J*†	30.25	768.3				ene.			1		8		e.	0	0			fair.
S. Wm. McGilvery, N. 36° 36′, W. 50° 05′*†	30.29	769.4	69	20.6	80	n.			6		3		ne.			mod.	nnw	
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay *†	30.28	769.1	57.5	14.2	98	ne.			2		10							misty.
H. M. S. Boadicea, Cape Town, Cape Colony	29.99	761.7	67	19.4	95	wsw.			1		4							d. clouds
H. M. S. Sylvia, Montevideo, Uruguay	30.19	766.8	58.2	14.6	88	ne.			1		4	calm						d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.18	766.6	61	16.1	88	ne.	6	2.7	6		5		ne.	0	0	sm'h		fair.
U. S. S. Enterprise, Cape Town, Cape Colony*	30.00	762.0	64	17.8	100	calm			0		2		nw.			sm'h		clear.
U. S. S. Galena, Montevideo, Uruguay*	30.17	766.3	60	15.6	88	ne.			1		5					sm'h		fair.
S. S. Jerome, Para, Brazil*	29.83	757.7	81	27.2		s.			1		5		se.	0	0			fair.
S. S. Archimides, Rio de Janeiro, Brazil	30.08	764.0				calm			0		5		sw.	0	0			fair.
S. S. Hevelius, S. 20° — W. 36° —†.	30.20	767.1	80	26.7		s.			3		2		s.	0	0	sm'h		clear.
Bk. Childwall, S. 3° 07′, W 30° 38′ *	29.90	759.4	79	26.1		nnw.			3		4	e.	nw.	0	0	light	e.	fair.
Bk. Gronsaver, S. 19° 40′, W. 33° 20′†	30.00	762.1	74.2	23.4		var.			2		7		nw.	0	0	mod.	sw.	fair.
S. Minnie N. Gerow, S. 13° 03′, W. 34° 02′†.	30.02	762.5	80	26.7		se.			3		7		se.	0	0	sm'h	s	fair.
S. S. Mendoza, S. 26° 15′, W. 39° 49′†	30.25	768.3				calm			0				nw.	0	0	long	sse.	overcast.
S. Paramita, S. 55° 08′, W. 61° 46′†	30.23	767.8	40	4.4		wsw.			6		4		sw.	2 h'r	2 h'r	large	sw.	foggy.
S. Storm King, S. 34° 07′, W. 49° 32′ *†	30.22	767.6				e.			1		1		e.	0	0	sm'h	se.	clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 27° 15′, E. 121° 15′	29.67	753.6	68	20.0	90	ne.			1		7	ene.				3	e.	raining.
H. M. S. Champion, N. 3° 00′, E. 104° 30′	29.71	754.6	85	29.4	96	calm			0		3							d. clouds.
H. M. S. Sappho, N. 8° 48′, W. 79° 32′			80	26.7	87	sw.			1		5	w.						d. clouds.
H M. S. Flying Fish, N. 31° 18′, E. 121° 33′	29.74	755.4	64	17.8	94	nnw.			4–6		10					1	nnw.	showery.
H. M. S. Swiftsure, Esquimalt, V. I	30.11	764.8	50	10.0	100	calm			0		10	sse.						d. clouds.
H. M. S Zephyr, N. 37° 33′, E. 121° 25′	29.97	761.2	50	10.0		ene.			3		6	e.						d. clouds.
H. P. M. S. Tamega, Macao, China	29.75	755.7	83.3	28.5	90	s.			3		10			2 h'r	2 h'r			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.30	769.6	53.5	11.9	61	calm			0		2			0	0			clear.
U. S. S. Adams, N. 50° 56′, W. 127° 54′†	30.03	762.7	47	8.3	92	sse.			3		10					gr'd	sse.	cloudy.
U. S. S. Monocacy, Nagasaki, Japan	29.78	756.4	69	20.6	80	ne.			2		10		calm					cloudy.
U. S. S. Palos, Hong Kong, China	29.63	752.6	80	26.7	91	sw.			3		8		calm					cloudy.
U. S. S. Richmond, Hong-Kong, China *	29.63	752.6	83	28.3	91	sw.			2		10		sw.	1.00	25.4			cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Oceanic, N. 40 57′, W. 156° 04′*..	29.83	757.7	46	7.8	92	w.			6		5		sw.			5	wsw.	fair
S. S. Ancon, San Francisco, Cal †	30.12	765.0	48	8.9	85	wnw.			3		0							clear.
S. S. Dakota, N. 42° 30′, W. 124° 40′ †	30.14	765.5	51	10.6	86	s.			5		10		s.	0	0	light	sw.	cloudy.
S. S. G. W. Elder, Victoria, B. C †	30.05	763.3	48	8.9	78	s.			2		5							fair.
S. S. Queen of the Pacific, N. 38° 00′, W. 123° 00′ †	30.15	765.8				nw.			5		0			0	0	sm'h		clear.
S. S. State of California, N 46° 11′, W. 124° 10′†	30.18	766.6	47	8.3	?	w.			2		8		w			mod.		cloudy.
S. S. City of Pekin, Hong Kong, China			74	23.3	95	ssw.			2		8		s.	0	0			cloudy.
S. E. B. Sutton, N. 5° 30′ W. 110° 30′ †	29.91	759.7	82	27.8	91	ene.			3		3		ene.	sh'rs	sh'rs	sm'h	nne.	clear.
S. S. Colima, Panama, Panama †	29.93	760.2	79	26.1	95	nw.			2		4		nw.	0	0			fair.
S. S. Granada, N. 35° 15′ W. 121° 29′ †	30.03	762.7	54	12.2	74	nw.			4		4		ne.	0	0	mod.	nw.	fair.
S. S. San José, N. 7° 15′, W. 82° 25′ †	29.87	758.7	84	28.9		sse.			2		5 k		ese.	0	0	long	sse.	fair.
S. Armenia, N. 6° 00′ W. 114° 40′ *	29.78	756.4	83	28.3	83	ene.			3		2		ene.	0	0	mod.	nnw	clear.
S. S. Benledi, N. 4° — E. 105° — *	29.75	755.6	85	29.4	83	s.			1–2		0			0	0	sm'h		clear.
S. Grecian, S. 1° 50′, E. 128° 22′†	29.89	759.2	85	29.4	83	calm			0		0			0	0	sm'h		clear.
S. Titan, N. 6° 00′, W. 112° 22′*†	29.95	760.7	86	30.0	88	ne.			2		1		ne.	1 h'r	1 h'r	sm'h	ssw.	clear.
Bk. Xenia, N. 8° 13′, E. 107° 32′			88	31.1		sw.			3		2		sw.	0	0	sm'h		clear.
U. S. S. Ranger, La Libertad, San Salvador	29.92	750.0	82	27.8	79	ne.			1		5		calm	0	0	long	s.	fair
District No. 4—South Pacific.																		
H. M. S. Diamond, S 31° 12′, E. 170° 15′			68	20.0	69	calm			0		1	sw.				2	s.	blue sky.
H. M. S. Espiegle, S. 29 51′, E. 165° 23′	30.15	765.8	63	17.2	100	e.			3							1	e.	d. clouds.
H. M. S. Kingfisher, S. 18° 44′, W. 159° 45′	30.05	763.3	78	25.6		ne.			4		3					3	se.	d. clouds.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.99	761.7	59	15.0		sse.			1							sm'h		d. clouds
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.82	757.4	69	20.6	90	n.			1		8							d. clouds.
U. S. S. Hartford, Tahiti, Society Id, Oceania *	29.84	757.9	76	24.4	95	calm			0		10			slight	slight	sm'h		cloudy.
U. S. S. Iroquois, Valparaiso, Chili	30.05	763.3	57	13.9	87	ne.			2		8					sm'h		cloudy.
U. S. S. Lackawanna, S. 28° 10′, W. 140° 08′ *	29.91	759.7	70	21.1	80	nw.			3		5		s.			sm'h	s.	fair.
U. S. S. Onward, Callao, Peru*†	30.11	764.8	66	18.9	84	ene.			1		10		s.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.95	760.7	67	19.4	89	calm			0	0	10			0	0	sm'h		misty.
U. S. S. Wachusetts, S. 5° 43′, W. 163° 31′	29.83	757.7	82	27.8	91	ese.			2		2		e.			long	e.	clear.
May Hulse, S. 43° 38′, W. 80° 26′	29.33	745.0	54	12.2	93	n.			4		6							d. clouds.
S. S. City of New York, S. 6° 35′. W. 167° 10′†	29.89	759 2	82	27.8	83	ne.			3		2		ne.	1 h'r	1 h'r	sm'h		clear.
S. S. City of Sydney, S. 34° 10′, E. 169° 20′ *†	30.10	764.5	60	15.6	76	nw.			2		4 n		nw.	0	0	mod.	nw.	fair.
S. S. Zealandia, Sydney, N. S. W	30.10	764.5	64	17.8	89	ne.			2		0			0	0			clear.
S. David Crocket, S. 54° 50′, W. 76° 00′ *..	29.86	758.4	44.5	6.9	80	ese.			6		2		ese.	0	0	long	ssw.	clear.
H. M. S. Lark, S. 13° 51′, E. 161° 17′	29.89	759.2	81.3	27.4	96	ene.			2		3					2	e.	d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 13° 52′ E. 57° 45′	29.68	753.9	86	30.0		ssw.			3									blue sky.
H. M. S. Euryalus, N. 15° 45′, E. 73° 30′	29.66	753.4	84	28.9	83	nw.			3		0							blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.88	758.9	81	27.2		sse.			2		5	sse.				3	sse.	d. clouds.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.76	755.9				s.			3		0					1	s.	blue sky.
H. M. S. Woodlark, Jask, Persia	29.64	752.8	83	28.3	87	wsw.			6		0					4	w.	misty.
U. S. S. Juniata, N. 28° 58′, E. 50° 45′..	29.75	755.6	83	28.3	87	e.			2		1			0	0	sm'h		clear.
Bk. Alpheus Marshall, S. 26° 57′, E. 47° 07′ *†	30.21	767.3				ene.			5		9		ese.	1 h'r	1 h'r	mod.	ssw.	cloudy.
S. Annie M. Law, S. 13° 21′, E. 97° 17′ *†	29.82	757.4	80.0	26.7		se.			4		8		se.	4 h'r	4 h'r	con.	sse.	raining.
S. S. Burswell, N. 18° 10′, E. 70° 00′*†	29.93	760.2	84	28.9		wnw.			2		0			0	0	sli't	nw.	clear
Bk. Bore, S. 9° 47′, E. 116° 10′*†	30.23	767.8	86	30.0		e.			2								n.	
Bk. Ceylon, S. 21° 42′, E. 66° 34′ *†	30.12	765.0	80	26.7	87	sse			4		2		sse.	slight	slight	mod.	sse.	clear.
S. Dynomene, S. 30° 10′ E. 43° 30′	30.34	770.6	70	21.1	70	e.			6		6			0	0	mod.	ssw.	misty.
S. S. Malabar, N. 21° 26′ E. 38° 02′						nw.			3		0			0	0	sm'h		clear.
Bk. Pilgrim, S. 11° 30′, E. 105° 00′*†	29.90	759.4				ene.			4		6		e.	0	0	var.		fair.
S. S. Radnorshire, N. 20° 00′, E. 38° 56′ *†	29.88	758.9				nnw.			3		0			0	0	sm'h		clear.
S. St. David, S. 41° 18′, E. 65° 00′ *†	30.10	764.5	58.3	14.6	88	sw.			6		6		sw.	2 h'r	2 h'r	h'vy	sw.	fair.
Bk. Chas. Stewart, S. 44° 51′, E. 128° 30′†	29.56	750.8	49	9.4		s.			8		9		s.			high	sw.	raining.
S. S. Strathleven, Suez Canal	29.91	759.7	70.0	21.1	66	calm			0		0			0	0			clear.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 3, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.85	758.2	64.4	18.0	63	n.			2		0			0.331	8.4	clear	Malaterre.
Algiers			29.88	759.0	61.2	16.2	71	ne.			2		0			0.039	1.0	clear	Thève.
La Calle			29.84	757.8	69.1	20.6	59	s.			5		2			0	0	fair	Fonfréde.
Tunis			29.85	758.3															Jacques.
Saida			29.90	759.4															Pérès.
Tebessa			29.87	758.7	70.5	21.4	28	se.			1		0			0	0	clear	St. Martin.
Geriville					74.5	23.6	15	ssw.			5		1			0	0	pretty fair	Forfert.
Laghouat			29.81	757.1	73.0	22.8	21	n.			2		0			0	0	clear	Abraham.
Biskra			29.79	756.7	83.1	28.4	18	nw.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.93	760.2	60.8	16.0	83	s.	6	2.7			10 ks			0.006	0.2	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.91	759.7	30.00	762.0	53.5	11.9	66	nne.	2	0.9			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.23	742.4	29.76	756.0	64.4	18.0	37	sw.			3		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.98	736.1	29.73	755.1	61.9	16.6	35	s.	0	0			0			0	0		Dr. Wierzbiski
Eperies	28.85	732.8	29.71	754.6	61.5	16.4	51	calm			0		9 s			0	0		Julius Mikolik.
Gratz	28.54	724.9	29.78	756.3	55.4	13.0	83	nw.			2		8			0.382	9.7		Andreas Rospini.
Hermannstadt	28.39	721.0	29.78	756.5	60.4	15.8	54	nnw.			3		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.34	719.9	29.65	753.1	59.2	15.1	64	ne.			1		10			0.437	11.1	covered	The Staff.
Lemberg	28.77	730.8	29.74	755.5	55.4	13.0	67	s.			2		10			0	0		Dr. T. Stanecki.
Neu Schmecks	26.38	670.1	29.70	754.3	52.3	11.3	50	calm			0		5			0	0		Dr. V. von Szontagh.
Pola	29.63	752.7	29.71	754.5	61.9	16.6	53	sse.			4		1			0.118	3.0		I. R.Hydrographic Office.
Szathmar	29.30	744.1	29.75	755.7	54.3	12.4		s.			3		10			0.079	2.0		Joseph Midlinszky, S. J.
Szegedin	29.46	748.3	29.74	755.3	60.3	15.7	65	sw.			1		10			0.024	0.6		Karl Stancel.
Trieste	29.70	754.3	29.80	756.8	61.2	16.2	61	sw.			1		3			0.047	1.2		Royal Academy.
Vienna	29.01	736.9	29.71	754.6	60.8	16.0	53	sse.			2		8			0.059	1.5		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.85	758 2	29.95	760.7	42.6	5.9	59	nne.	24	10.7			7			0.020	0.5	squally	W. Boswell.
Armagh, Observatory	29.70	754.4	29.94	760.5	49.5	9.7	55	ne.	13	5.8			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.85	758.2	47.4	8.6	39	nne.	9	4.0			9					overcast	John Hartnup.
Bolton, Sharples	29.28	743.7	29.81	757.2	44.6	7.0	57	ene.	18	8.0			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.45	748.0	29.85	758.2	43.9	6.6	64	ne.			4		8			0	0	d. clouds	M.Laudsborough&Preston.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.9	73	se.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.73	755.1	29.83	757.7	48.4	9.1	67	ne.			0.6		3					overcast	John McLaren.
Chatham, School M. E.	29.68	753.9	29.82	757.4	49.7	9.8	63	calm			0		8					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.67	753.6	29.90	759.4	47.0	8.3	64	n.			1		10					overcast	The Staff.
Fort Napier, Natal	27.74	704.6	29.96	761.0	77.7	25.4	29	e.			1							blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	84.0	28.9	71	sw.			1		2					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.88	758.9	29.91	759.7	54	12.2	49	n.			3		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.69	754.1	29.75	755.6	59.0	15.0	90	se.			2		10					gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.74	755.4	29.95	760.7	46.8	8.2	41	nne.			4		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.64	752 8	29.81	757.2	50.8	10.4	59	n.			1		7					d. clouds	The Staff.
Guernsey	29.55	750.6	29.85	758.2	50.0	10.0	58	ne.			1		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.78	756.4	29.82	757.4	49.9	9.9	46	n.	6	2.7			7					d. clouds	The Staff.
Leicester, Museum	29.55	750.6	29.80	756.9	49.2	9.6	56	n.			1		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.54	750.3	29.61	752.1	65.4	18.6	78	ne.					6					d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.00	762.0	30.04	763.0	76.0	24.4	58	nw.			2		3			blank	blank	blue sky	C. S. Duncombe.
Oscott, St. Mary's College	29.29	744.0	29.83	757.7	43.1	6.2	83	ene.			1		6					drizzling	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.60	751.8	29.83	757.7	48.2	9.0	67	n.			13		8					d. clouds	The Staff.
Plymouth	29.79	756.7	29.87	758.7	53.1	11.7	64	nw.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.90	759.4	30.00	762.0	42.2	5.7	70						8					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.81	757.2	29.87	758.7	66.4	19.1	60	ssw.			2		7					d. clouds	W. H. Lyne.
Sheffield	29 58	751.3	29.86	758.4	46.4	8.0	73	ne.			1		10			0.02	0.5	overcast	W. F. Cooper.
Silloth Rectory	29.85	758.2	29.88	758.9	46.7	8.2	72	n.			3		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.87	758.7	48.0	8.9	49	ne.	9	4.0			9					d. clouds	W. C. Carlisle.
Truro, Royal Institution	29.85	758 2	29.92	760.0	55	12.8	68	nw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.95	760.7	29.97	761.2	51.8	11.0	63	n.	15	6.7			7					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.25	742 9	29.64	752.8	67.3	19.6	70	e.	12.4	5.5		1 c		w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.13	765.3	30.17	766.3	40	4.4	94	s.	12	5.4			10 n			0.155	4.0	light rain	H. J. Cundall, C. E
Chatham, N. B*	30.08	764.0	30.14	765.5	42	5.6	86	w.	6	2.7		8 k	2 ks			0.03	0.8	fair	G. A. Blair.
Cornwall, Ontario	29.96	761.0	30.16	766.1	39.5	4.2	85	e.			1		10 s			0.312	7.9	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.07	763.8	30.12	765.0	42.0	5.6		w.			2	0	5 k			0	0	d. clouds	H. A. Johnson.
Father Point, Quebec*	30.09	764.3	30.12	765.0	39	3.9	89	nw.	25	11.2		0	2 s			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.39	746.5	30.27	768.8	31	— 0.6	81	ne.	4	1.8		0	0			0	0	clear	James Stewart.
Fredericton, N. B	30.11	764.8	30.18	766.6	42.7	5.9	88	w.	3	1.3			10 n			0.145	3.7	light rain	Prof. Harrison, L. L. D.
Granton, Ontario	28.87	733.3	29.98	761.5	48.0	8.9	100	e.	5	2.2			10 n			0.22	5.6	raining	Jas. Grant.
Halifax, N. S*	30.11	764.8	30.24	768.1	45	7.2	83	se.	6	2.7		5 k	2 s			0	0	cloudy	A. Allison.
Hamilton, Ontario	29.64	752.8	30.03	762.7	40.7	4.8	85	e.			2	10 cs	0	ne.				raining	Geo. Dickson, B. A.
Kingston, Ontario*	29.79	756.7	30.13	765.3	41	5.0	79	ne.	9	4.0			10 ks		s.	0.01	0.3	light rain	A. P. Knight, M. A.
Little Glace Bay, N. S	30.19	766.8	30.24	768.1	46.0	7.8	62	sw.			6		10 n					showery	C. H. Rigby.
Montreal, Quebec*	29.98	761.5	30.20	767.1	39	3.9	73	n.	8	3.6			10 s			0.44	11.2	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.96	761.0	30.21	767.3	38.1	3.4	82	n.			1		10 s			0.57	14.5	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.43	747.5	30.15	765.8	36	2.2	89	ne.	15	6.7			10 n			0.11	2.8	cloudy	Rev. E. Mosley.
Peterboro, Ontario	29.45	748.0	30.19	766.8	42.7	5.9	83	calm			0		10 n					raining	J. Dixon, B. A.
Port Dover, Ontario	29.31	744.5	30.01	762.2	48	8.9	93	ne.	14	6.3			5 n			inap.	inap.	threatening	H Morgan.
Port Stanley, Ontario	29.35	745.5	30.00	762.0	49	9.4	89	e.	5	2.2			10 n			0.05	1.3	heavy rain	M. Payne.
Quebec, Quebec*	29.82	757.4	30.19	766.8	43	6.1	60	ne.	2	0.9		0	0			0.31	7.9	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	29.78	756.4	30.26	768.6	33	0.6	85	e.	1	0.4			10 ks			0.13	3.3	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.09	764.3	30.14	765.5	41	5.0	95	calm	0	0			fg.			0	0	foggy	
St. John, N. B	29.99	761.7	30.16	766.1	41.0	5.0	100	sw.	7	3.1			10 n			0.250	6.3	raining	G. Murdock, C. E.
Saint John's, N. F	30.20	767.1	30.45	773.4	49	9.4	78	sw.			2	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F			30.30	771.1	42.8	6.0		sw.			4					0.96	24.4		The Commandant
Saugeen, Ontario*	29.33	745.0	30.06	763.5	38	3.3	89	ne.	28	12.5			10 s			0.48	12.2	heavy rain	
Stratford, Ontario	28.73	729.7	30.02	762 5	45.0	7.2	92	se.	12	5.4			10 s			0.102	2.6	raining	G. J. Macgregor, M A
Sydney, C. B*	30.23	767.8	30.30	769.6	44	6.7	58	sw.	21	9.4		5 cs	5 k		sw.	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.09	754.1	30.08	764.0	42	5.6	89	e.	10	4.5			10 n		e.	0.09	2.3	light rain	Magnetic Observatory.
Windsor, N. S	30.07	763.8	30.17	766.3	45.0	7.2	84	s.	6	2.7			10 ks			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.96	735.6	30.04	763.0	44.8	7.1	94	ne.	15	6.7			10 s			0.03	0.8	drizzling	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.12	765.0	30.19	766.8	48	8.9	86	s.	8	3.6		10 k	0			0	0	cloudy	Lt. P. E. Vinnot, R. N.
London, Ontario	29.12	739.6	30.03	762.7	47.5	8.6	95	se.			1		10 n					raining	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.05	763.3	30.08	764.0	64.0	17.8	82	w.	14.8	6.6		0	8 s			0	0	dense haze	John Duthie.
Springbok Fontein	27.86	707.6			83	28.3	11	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.29	642.4																	A. Guelny.
Tchang-kia-tchouang	30.06	763.5	30.17	766.3	50.2	10.1	44	nw.			3		6			0.039	1.0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	30.05	763.3	30.08	764.0	53.4	11.9	81	nnw.	2.9	1.3			7			0.213	5.4	ul. covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.71	754.6	29.76	755.8	43.3	6.3	45	calm	0	0			8						Oversergent Fischer.
Fanoe	29.69	754.2	29.71	754.7	44.1	6.7	69	sse.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	30.01	762.2	30.05	763.3	30.2	— 1.0	88	sse.			4		9					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.86	758.4	29.91	759.6	28.8	— 1.8		nw.			4		7						
Stykkisholm, Iceland	30.06	763.5	30.10	764.6	45.3	7.4	82	nw.			2		8						A. O. Thorlacius.
Thorshavn	30.10	764.4	30.12	765.0	41.9	5.5	76	ne.	7	3			7						Overloerer Bergh.
Upernavik, Greenland																			
Vestervig	29.63	752.7	29.72	755.0	44.1	6.7	41	e.			2		5						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.16	740.7	29.80	757.0	61.5	16.4	63	calm			0		k		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.31	744.4	29.86	758.4	46.4	8	77	sw.			1	0	8 k			0	0	very cloudy	M. Nicot, Director.
Arras, Engineer School	29.54	750.4	29.81	757.1	44.6	7.0	98	nw.			2		kn		s.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.71	754.5	29.78	756.5	65.8	18.8	49	sw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.22	742.2	29.77	756.2	51.4	10.8	55	ne.			1	0	8 kn		wsw.	0	0	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.56	750.7	29.83	757.6	47.8	8.8	52	ne.			1		10		nne.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.82	732.1	29.71	754.5	50.0	10.0	89	s.			1		10 n		sw.	0.16	4.	raining	M. Gobin, Director.
Bordeaux, Observatory	29.46	748.2	29.72	754.8	59.9	15.5	64	sse.			1		8		wsw.	0.055	1.4	very cloudy.	M. Rayet, Director.
Bourges, Normal School	29.22	742.2	29.76	756.0	50.9	10.5	87	se.			2		n		se.	0.110	2.8		M. Malet, Director.
Brest, Naval Observatory	29.65	753.2	29.90	759.4	47.1	8.4	75	ne.			2		9		ne.	0	0		M. de Kermarec, Dir.
Caen, Normal School	29.75	755.7	29.83	757.6	47.1	8.4	59	n.			1		10		n.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.44	747.7	29.75	755.7	49.1	9.5	61	wnw.			1		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.26	743.2	29.78	756.3	47.5	8.6	28	n.			3		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.39	721.0	29.70	754.3	51.4	10.8	93	sw.			2		10			0	0	covered	M. Allnard, Director.
Cluny, Normal School	28.91	734.3	29.76	755.9	53.6	12	74	nw.			1		10		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.91	734.2	29.77	756.1	50.4	10.2	48	nw.			2		2 k	nw.	nw.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.23	691.6	29.72	754.8	55.4	13	77	ne.			1	0	5 k			0	0		M. Jeangirard, Director.
Greasque, du Rhone	28.68	728.4	29.79	756.7	57.7	14.3	48	w.			1		7		sw.	0	0		M. Kiun, Director.
Grenoble, Normal School	28.93	734.9	29.69	754.1	60.8	16	49	nnw.			1	ck	0	nnw.		0	0		M. Ablard, Director.
Guéret, Normal School	28.19	716.1	29.77	756.2	48.2	9	82	sw.			1		10 n		sw.	0.051	1.3	raining.	M. Delorme, Dir.
Lamballe, Normal School	29.65	753.1	29.95	760.8	48.0	8.9	76	n.			2		5		n.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.15	740.4	29.71	754.5	65.5	18.6	42	w.			1	5 c	0			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.71	754.0	29.81	757.2	55.8	13.2	50	ene.			1		8		w.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.69	728.7	29.73	755.1	57.2	14.0	48	e.			1	0	5 kn		w.	0.008	0.2	fair	M. André, Director.
Mans, Normal School	29.50	749.3	29.81	757.2	50.9	10.5	61	e.			1		8		e.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.52	749.8	29.79	756.6	63.5	17.5	61	sw.			1		4		wsw.	0	0		M. Stephan, Director.
Montlouis	24.59	624.6	29.43	747.6	43.2	6.2	65	w.	11.2	5.0			4	sw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.82?	757.3?	29.95?	760.6?	60.4	15.8	79	sw.			6		2		n.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.00	736.6	29.74	755.5	51.1	10.6	54	wnw.			1		k			0	0		M. Hasse, Director.
Nantes, Observatory	29.65	753.0	29.81	757.1	55.2	12.9	60	ene.			1-2	0	4 k		ne.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.66	753.4	29.77	756.2	61.6	16.6	53	se.	9.4	4.2			3	sw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.91	531.1			28.4	— 2.0		calm			0		5		w.	0.024	0.6	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.69	728.8	29.74	755.5	59.9	15.5	68	s.			1	2 c		w.	w.	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.85	631.3			32.2	0.1	98	wsw.			4		10		wsw.	0.039	1.0	light snow	M. Allnard, Director.
Rochefort, Naval Obs'y	29.71	754.7	29.74	755.5	56.5	13.6	75	ne.			1		8		ne.	inap.	inap.	¾ covered	Lt. E. Decante, Director
Roche-sur-Yon, N. School	29.58	751.3	29.80	756.8	55.6	13.1	93	ese.			1		5		w.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.57	700.2	29.69	754.1	53.6	12	93	nw.			2	0	0			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.80	757.0	29.85	758.2	43.9	6.6	91	n.			1		8		n.	0	0	very cloudy	M. Mouillot, Dir.
Saint Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.65	753.2	29.82	757.3	48.6	9.2	46	n.			2		10		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.04	737.6	29.76	755.9	63.1	17.3	68	e.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.61	752.0	29.78	756.5	56.1	13.4	45	n.			2		2	ne.	ne.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.32	744.8	29.81	757.2	47.8	8.8	46	ne.			1					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.57	751.0	29.72	754.8	64.6	18.1	50	n.	5.8	2.6		0	3 k		ssw.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.28	718.4	29.72	754.8	54.0	12.2	54	w.			2		9	w.		0	0		Prof. Jnedt.
Bamberg	28.89	733.7	29.72	754.9	61.7	16.5	52	nw.			2	0	6 k		nw.	0	0		Prof. Dr. Hoh.
Berlin	29.56	750.7	29.70	754.3	51.4	10.8	45	w.			1		10			0	0		Meteorological Institute.
Breslau	29.20	741.7	29.72	755.0	58.3	14.6	42	wnw.			2		9			0	0		Royal University Obs'y
Carlsruhe	29.30	744.3	29.76	755.8	53.8	12.1	56	sw.			1		10	sw.		0	0		Albert Senz.
Cassel	28.99	736.3	29.70	754.4	49.6	9.8	57	w.			3		6	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.74	755.5	55.0	12.8	39	nnw.			1		3			0	0		Physical Society.
Friedrichshafen	28.34	719.7	29.74	755.3	55.4	13.0	78	sw.			1		6	wsw.		0.118	3.0	raining	Wilhelm, Chief Tel.
Hamburg	29.61	752.0	29.70	754.3	46.4	8.0	60	wsw.			4		10			0	0		E. Preller.
Kiel	29.68	753.8	29.69	754.2	42.6	5.9	72	calm			0		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.29	744.0	29.71	754.6	54.7	12.6	34	w.			2		3	wnw.		0	0		H. Leppig, Asst.
Magdeburg	29.51	749.5	29.70	754.3	51.8	11.0	47	w.			2		8	w.		0	0		Dr. Assmann.
Memel	29.74	755.5	29.79	756.7	43.3	6.3	59	wnw.			3	4 c	0						Issermann.
Munich	27.89	708.5	29.74	755.3	55.6	13.1	72	sw.			1		8	w.		0.067	1.7		Central Station.
Neufahrwasser	29.73	755.2	29.75	755.6	41.2	5.1	86	ne.			2		10			0.004	0.1	raining	A. Lothes.
Neustadt, Palatinate																			Dickmether.
Stuttgart	28.79	731.3	29.68	753.9	52.2	11.2	69	n.			1		10			0.031	0.8		Prof. Dr. Schoder.
Wustrow	29.71	754.5	29.77	756.1	43.7	6.5	61	ne.			4		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.58	751.3	29.96	760.9	68.7	20.4		s.			0.5		7			0	0	hazy	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.66	753.4	29.71	754.6	85.0	29.4	70	wsw.	34.0	15.2			0			0	0	blue sky	
Deesa	29.19	741.5	29.64	753.0	100.5	38.1	18	w.	13.0	5.8			0			0	0	blue sky	
Bombay	29.70	754.4	29.74	755.4	84.8	29.3	66	nw.	21.0	9.4			1		w.	0	0	d. clouds	
Poona, Yarrowda	27.86	707.7	29.66	753.3	94.1	34.5	20	nw.	24.0	10.7			8			0	0	d. clouds	
Trichinopoly	29.40	746.8	29.67	753.0	100.6	38.1	36	ese.	1.0	0.4			0			0	0	blue sky	
Belgaum	27.17	690.1	29.68	753.9	77.8	25.4	59	ese.	11.0	4.9			6	e.		0.44	11.2	d. clouds	
Lahore	28.84	732.6	29.56	750.7	98.2	36.8	21	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.67	728.1	29.52	749.9	99.3	37.4	15	w.	3.0	1.3			2		w.	0	0		
Agra	29.02	737.0	29.55	750.7	103.1	39.5	13	nw.	6.0	2.7			1			0	0	d. clouds	
Nagpur	28.55	725.2	29.54	750.3	104.9	40.5	15	wnw.	5.0	2.2			7		w.	0	0	d. clouds	
Jubbulpore	28.28	718.2	29.56	750.9	103.7	39.8	10	nw.	8.0	3.6			0			0	0	blue sky	
Lucknow	29.19	741.5	29.56	750.7	99.4	37.4	33	sse.	9.0	4.0			0			0	0	hazy	
Allahabad	29.23	742.4	29.53	749.9	103.3	39.6	15	nw.	4.0	1.8			0			0	0	blue sky	
Patna	29.38	746.3	29.56	750.9	88.2	31.2	63	e.	7.1	3.2			8	e.	e.	0	0	d. clouds	
Hazaribagh	27.60	701.0	29.52	749.8	97.5	36.4	15	nnw.	8.1	3.6			8	n.		0	0	d. clouds	
Cuttack	29.48	748.8	29.56	750.8	88.2	31.2	64	wnw.	10.0	4.5			9		s.	0	0	d. clouds	
Calcutta, Alipore	29.72	755.0	29.75	755.6	70.8	21.6	90	n.	18.0	8.0			10		e.	0.45	11.4	thnd'r storm	
Dhubri	29.54	750.2	29.66	753.2	77.1	25.1	91	e.	0.8	0.4			10			0.15	3.8	overcast	
Chittagong	29.60	751.9	29.69	754.2	81.8	27.7	87	s.	5.6	2.5			6			0	0	blue sky	
Sibsagar	29.37	746.0	29.70	754.5	81.7	27.6	82	ne.	2.0	0.9			10	sw.	sw.	0.29	7.4	d. clouds	
Jeypore	28.22	716.7	29.60	751.9	97.7	36.5	19	wnw.	10.5	4.7			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.19	716.0			99.2	37.3	25	se.	2	0.9		3 c	0			0	0	d. clouds	
Zanzibar			29.87	758.7	80.6	27.0	78	se.	11.7	5.2			10	s.	sw.	0.26	6.6	drizzling	
ITALIAN.																			
Udine	29.43	747.5	29.83	757.7	51.8	11.0	77	ne.	2.5	1.1			10			0.429	10.9		Prof. Giovanni Clodig.
Milan	29.26	743.2	29.77	756.2	55.9	13.3	70	nne.	3.8	1.7			9	nne.		0.819	20.8		Prof. G.V.Schiapparelli.
Padua	29.67	753.6	29.78	756.3	55.0	12.8	67	nne.	13.6	6.1			8			0.661	16.8		Prof. Dott. Lorenzoni.
Moncalieri	28.83	732.3	29.72	755.0	58.8	14.9	57	s.	3.8	1.7			4	ne.		0	0		Prof. F. F. Denza.
Genoa	29.58	751.4	29.78	756.3	59.9	15.5	66	sw.	6.3	2.8			6	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.83	706.8	29.72	754.8	55.6	13.1	61	wnw.			4		1			0.004	0.1		Prof. D. C. Bruno.
Pesaro	29.76	755.9	29.81	757.1	60.8	16.0	71	se.	8.7	3.9			9			0	0		Prof. Luigi Guidi.
Florence	29.56	750.8	29.81	757.2	64.4	18.0	36	w.			2		8	wsw.		0	0		Prof. Costantino Pittei.
Leghorn	29.70	754.3	29.78	756.4	63.7	17.6	41	s.	7.4	3.3			8	s.		0	0		Prof. P. Monte.
Rome	29.63	752.7	29.80	757.0	66.9	19.4	42	w.	5.6	2.5			7			0	0		Prof. P. Tacchini.
Lecce	29.60	751.8	29.85	758.1	64.4	18.0	59	se.	18.1	8.1			10	se.		0.039	1.0		Prof. C. de Giorgi.
Cosenza	28.95	735.2	29.82	757.4	66.9	19.4	76	ssw.	2.5	1.1			6	sw.		0	0		Prof. D. Conti.
Cagliari	29.57	751.1	29.76	756.0	64.4	18.0	57	s.			2		10			0	0		Prof. A. Pacinotti.
Palermo	29.51	749.6	29.76	755.8	62.4	16.9	67	ne.	3.1	1.4			10			0	0		Prof. G. Cacciatore.
Syracuse	29.67	753.6	29.71	754.7	62.8	17.1	79	nne.	9.8	4.4			10	sw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.28	743.7	29.79	756.7	68.4	20.2	49	e.	0	0			7	w.		0	0		Prof. F. Brioschi.
Stelvio	21.87	555.5			28.6	— 1.9	90	sw.			2		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	21.89	556.0			28.4	— 2.0	81	ne.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.95	760.7	29.98	761.6	49.0	9.4	69	se.			4		10 n			0.016	0.4	raining	H. Hattori.
Awomori	30.03	762.7	30.07	763.8	43.7	6.5	73	e.	9.9	4.4			10 s			0.018	0.4	overcast	K. Ogawa.
Hamamatsu	29.81	757.2	29.84	757.9	57.6	14.2	68	e.			6		10 s			0.421	10.7	overcast	
Kagoshima	29.79	756.6	29.80	756.9	67.0	19.4	83	ne.			4		10 s			0.315	8.0	overcast	G. Miyanonaza.
Kioto	29.67	753.7	29.85	758.1	59.0	15.0	72	ene.	1.3	0.5			10 s			0.020	0.5	cloudy	M. Tojima.
Miasaka	29.83	757.7	29.86	758.4	63.8	17.7	96	e.			2		10 n		e.	1.020	25.9	raining	K. Masusaki.
Miyako	30.05	763.2	30.16	766.0	40.0	4.4	99	wsw.	0.9	0.4			10 n			0.063	1.6	raining	N. Honno.
Nagasaki, I. M. Obs'y	29.58	751.3	29.78	756.4	61.1	16.2	97	ne.	0.9	3.0			10 n			0.970	24.6	raining	S. Takehayashi.
Niigata	29.87	758.7	29.90	759.4	52.2	11.2	75	se.	10.9	4.8			10 n			0.005	0.1	light rain	M. Morita.
Nobiru	30.06	763.4	30.07	763.8	45.4	7.4	97	e.	17.6	7.9			10 n			0.150	3.8	raining	H. Midzushina.
Numazu	29.88	758.9	29.91	759.8	54.7	12.6	73	nne.			7		10 ks			0.606	15.4	cloudy	R. Kaneda.
Osaka	29.91	759.7	29.93	760.1	59.4	15.2	71	ene.	8.7	3.8			10 s			0	0	cloudy	H. Omura.
Tokei Obs'y, Yeddo	29.93	760.2	30.01	762.2	50.3	10.2	99	nnw.	5.4	2.4			10 n			0.478	12.2	rainy	The Staff.
Wakayama	29.74	755.5	29.80	756.8	62.6	17.0	76	e.	4.3	1.9			10 s;n			0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.88	758.9	30.07	763.8	76.0	24.4	70	ese.	24.0	10.7		0	1 k;ks			0.12	3.0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.65	600.7	29.87	758.7	64.9	18.3	58	calm	0	0		3 ck	0	w.		0	0	foggy	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.96	761.0	60.1	15.6	67	calm	0	0		3 c	2 k			0	0	foggy	Prof. M. Leal.
Mazatlan	29.65	753.2	29.92	760.0	69.0	20.6	95	nw.	1.6	0.8		1 cs	0			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Zacatecas																			J. A. Bonilla, M. E.
Sub-series.																			
Altata																0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.80	757.0	29.80	757.0	49.6	9.8		nw.			4					0.016	0.4		
Groningen	29.68	753.9	29.74	755.3	44.1	6.7		nnw.			2					0.024	0.6		
Helder	29.76	756.0	29.76	756.0	43.2	6.2		nw.			2					0	0		
Hellevoetsluis	29.79	756.6	29.79	756.5	47.3	8.5	64	w.			1					0	0		
Utrecht	29.74	755.5	29.79	756.6	48.0	8.9	58	nw.			2		8			0.012	0.3	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.82	757.4			76.6	24.8	94	e.	0	0			7			0.039	1.0		Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.67	753.7	29.74	755.3	42.4	5.8	47	n.	13	6			1			0	0		
Brono	29.63	752.6	29.07	753.6	36.7	2.6	62	nne.			7		6			0	0		
Christiania	29.53	750.0	29.68	753.8	41.2	5.1	37	n.	16	7			10			0	0		
Gjæsvær	29.85	758.1	29.87	758.7	34.0	1.1		ene.			6		10						
Lodingen	29.69	754.0	29.73	755.2	33.1	0.6	45	nne.			6–7		1			0	0		
PORTUGUESE.																			
Angra, Azores	29.91	759.6	30.06	763.6	60.4	15.8	64	wnw.	4.9	2.2			2			0	0		Dr. J. A. Sampaio.
Campo Major	28.64	727.4	29.65	753.0	50.0	10.0	95	ssw.	6.3	2.8			10			0.374	9.5		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.80	756.8	29.88	759.0	64.2	17.9	54	w.	12.5	5.6			2			0.059	1.5		Capt. D. A. de Cunha.
Lisbon, Observatory	29.23	742.4	29.56	750.8	57.6	14.2	70	ese.	8.1	3.6			9			0.504	12.8		The Staff.
Ponta Delgada, Azores	29.98	761.6	30.06	763.4	61.9	16.6	52	nne.	9.4	4.2			4	w.		0.055	1.4		
Saint Paul de Loando																			
Serra da Estrella	24.84	630.9	29.64	752.8	34.2	1.2	100	ese.	31.1	13.9			10			1.441	36.6	rain & fog	
RUSSIAN.																			
Akmolinski	28.83	732.3	29.93	760.2	40.1	4.5	100	ene.	16	7			10 n			0.724	18.4		Major K. Lasarew.
Archangel	29.90	759.5	29.92	760.0	42.8	6.0	65	ese.	18	8			10			0	0		Capt. Sselitwerstow.
Ashurada	30.10	764.6	30.01	762.2	64.6	18.1	74	nnw.	5	2		0	8 kn			0	0		
Astrakhan	29.97	761.3	29.89	759.2	69.8	21.0	48	wnw.	2	1		0	7 k			0.134	3.4		Capt. Wisganow.
Baku	30.03	762.8	29.98	761.6	62.1	16.7	75	se.	9	4		0	0			0	0		
Barnaul	29.41	747.0	29.90	759.5	53.1	11.7	52	nw.	13	6			3			0	0		Meteorological Obs'y
Bielosersk	29.38	746.2	29.84	758.0	50.4	10.2	86	sse.	13	6			10 n			0.295	7.5	light rain	
Dorpat	29.57	751.1	29.82	757.4	40.3	4.6	59	wsw.	9	4			10 k			0.039	1.0		Observatory.
Ekaterinburg	29.32	744.6	30.31	769.9	38.5	3.6	28	n.	9	4		0	1 s			0	0		Meteorological Obs'y
Elissawetgrad	29.16	740.6	29.60	751.7	62.6	17.0	64	ene.	7	3		0	6 ks			0.130	3.3		
Irkutsk	28.52	724.3	30.18	766.5	45.7	7.7	44	nw.			2		5			0	0		
Kasalinsk					77.0	25.0	34	nw.	9	4		10 c	0						
Kasan	29.79	756.6	30.06	763.5	55.2	12.9	24	ene.	20	9		0	0			0	0		Observatory.
Kem	29.64	752.9	29.69	754.2	37.0	2.8	86	se.	45	20			10 ks			0	0		
Kertch	29.79	756.7	29.82	757.3	64.6	18.1	57	sw.	7	3		0	4 k			0	0		Lagorio & Sastyrez.
Kieff	29.02	737.1	29.64	752.8	59.2	15.1	65	n.	16	7		c;ck	8 ks			0	0		Observatory.
Koslov	29.25	743.0	29.78	756.3	58.1	14.5	60	ese.	11	5		0	8 n			0	0		
Libau	29.76	756.3	29.80	756.9	41.7	5.4	65	ssw.	9	4			2			blank	blank		E. Quaas.
Lugan	29.43	747.5	29.60	751.9	61.5	16.4	64	wsw.	22	10			9			0.138	3.5		Meteorological Obs'y.
Moscow	29.34	745.2	29.81	757.1	56.1	13.4	65	ssw.	8.9	4.0			10 n			0.118	3.0	light rain	Meteorological Obs'y
Nikolaiev	29.00	751.8	29.67	753.7	59.2	15.1	82	sw.	22	10			10 n			0.055	1.5		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.20	767.0	30.28	769.2	27.3	— 2.6	74	calm	0	0			0			0	0		Iwanow.
Pekin, China	29.95	760.6	30.09	764.2	47.7	8.7	42	nw.	3.4	1.5		0	0			0.020	0.5		Physical Observatory.
Petro-Alexandrovsk	29.51	749.5	29.84	757.9	83.5	28.6	20	wnw.	2.2	1.0			10 k			0	0		
Petrozavodsk	29.53	750.0	29.73	755.1	43.3	6.3	76	w.	10	7		0	8 ks			0.039	1.0		Dr. Bergmann.
Pinsk	28.93	734.9	29.41	747.1	57.9	14.4	54	sse.	5	2		0	0			0	0		
Poti	29.88	758.9	29.91	759.7	77.2	25.1	75	e.	5	2		0	6 ks			0.043	1.1		
St. Petersburg	29.78	756.3	29.80	756.9	40.6	4.8	40	wsw.	11	5			9 kn			0.051	1.3		Central Physical Obs'y.
Samarkand	27.44	696.9	29.80	756.9	72.9	22.7	60	s.	7.8	3.5		0	6 k			0	0		
Semipalatinsk	29.27	743.5	29.91	759.6	67.5	19.7	43	n.	18	8			4			0.150	3.8		Major Lasarew.
Sevastopol	29.61	752.2	29.84	757.9	60.1	15.6	59	w.	27	12		1 cs	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Staroi Bykhov	29.36	745.7	29.81	757.1	60.3	15.7	40	nne.	7	3		0	5 k			0.315	8.0		
Tashkend	28.15	715.0	29.71	754.5	84.6	29.2	30	calm	0	0		0	8 k			0	0	light clouds	Terch, A. M.
Tiflis	28.54	725.0	29.91	759.6	74.1	23.4	29	sw.	2	1		0	2 k			0	0		Physical Observatory.
Vernoe	27.26	692.3	29.63	752.6	74.5	23.6	29	calm	0	0		0	0			0	0		
Viatka	29.58	751.3	30.22	767.5	46.8	8.2	24	e.	5	2			2			0	0		
Warsaw	29.32	744.6	29.73	755.2	55.9	13.3	53	wsw.	5	2			10 n			inap.	inap.	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.67	753.7	29.96	760.9	50.2	10.1	45	sse.	16	7			6			0.024	0.6		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.05	763.3	46	7.8	92	nne.			4	5	0	ne.		0.1	3.		J. Youngclause
North Unst			29.99	761.7				n			4	2	5	n.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.70	754.4	29.80	757.0	63.7	17.6	47	sw.	4.3	1.9		0	1 k			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.64	752.9	29.70	754.4	64.6	18.1	61	nw.	2.5	1.1		2	4	se.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.73	678.9	29.67	753.5	53.6	12.0	50	sw.	3.6	1.6		0	6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.50	698.4	29.68	753.9	61.0	16.1	57	s.	4.3	1.9			10			0.012	0.3	covered	The Staff.
Murcia, Met. Obs'y	29.59	751.5	29.72	755.0	70.5	21.4	65	se.	4.0	1.8		4	5	w.		0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	28.88	733.5	29.77	756.1	49.1	9.5	83	n.	10.1	4.5		4 s	0	n.		0.319	8.1	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.71	729.1	29.57	751.1	59.0	15.0	55	se.	12.5	5.6			10			0.224	5.7	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	760.9	30.02	762.6	77.3	25.2	84	ese.	1.1	0.5		2 c;k	1 k	wnw.	e.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.6	29.85	758.1	84.7	29.3	72	e.	9.8	4.4		0	1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.61	752.0	29.71	754.5	53.4	11.9	93	se.	4.9	2.2			10		se.	0.936	23.8	raining	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.92	760.0	30.01	762.3	79.2	26.2	94	se.	2.2	1.0		1 s	3 k	se.	se.	0.177	4.5	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.43	747.4	29.47	748.4	38.8	3.8	87	ne.			2		8			0.051	1.3		
Umea	29.61	752.0	29.66	753.3	33.3	0.7	87	ne.			6		10			0.106	2.7		
Hernosand	29.47	748.4	29.52	749.7	34.5	1.4	72	n.			4		10			0.079	2.0		
Stockholm	29.48	748.8	29.66	753.3	37.0	2.8	52	wsw.			2		10			0.035	0.9		
Wisby	29.63	752.5	29.69	754.0	38.8	3.8	54	w.			4		3			0.035	0.9		
Sub-series.																			
Upsala	29.52	749.8	29.61	752.0	34.5	1.4	73	w.	8.9	4.0			10		w.	0.004	0.1	snowing	S. G. Fineman.
SWISS.																			
Geneva	28.34	719.8	29.76	755.8	57.6	14.2	40	ssw.			4		8			0.150	3.8	covered	The Observatory.
TURKISH.																			
Constantinople			29.91	759.6	77.0	25.0	46	sw.	12	5.5			10		sw.	0	0		The Observatory.
Valona			29.97	761.1	69.1	20.6		sw.			1		5			0	0	raining	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.96	760.9	67.5	19.7	73	ne.			3	3 c		w.		0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.66	677.2			66	18.9	93	w.			1	5 k		w.		0	0		Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.05	763.3	30.13	765.3	57	13.9	69	s.	6	2.7		4 c	4 s	w.	w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.43	747.5	30.09	764.3	33	0.6	88	ne.	15	6.7			10 n		ne.	0.13	3.3	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.95	633.7	29.77	756.1	32	0.0	57	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.24	691.9	30.08	764.0	24	— 4.4	64	ne.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.98	736.1	30.14	765.5	59.5	15.3	70	w.	4	1.8		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.10	764.5	30.11	764.8	48	8.9	100	ne.	16	7.2			fg.			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	29.98	761.5	30.17	766.3	56.5	13.6	86	calm	0	0		c	0			0	0	clear	John Healy.
Baltimore, Maryland	30.12	765.0	30.17	766.3	56	13.3	74	ne.	2	0.9		0	0			0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.11	764.8	30.13	765.3	46.3	7.9	100	ne.	20	8.9			10n;fg			0.04	1.0	light rain	G. A. Hill.
Behring Id., Behring Sea	29.44	747.8	29.46	748.3	29.7	— 1.3		n.	29	13.0			10 n		n.	inap.	inap.	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.59	726.2	30.15	765.8	32.5	0.3	92	nw.	2	0.9			10 n			0.19	4.8	light snow	A. Pritchard.
Benton, Fort, Montana	27.22	691.4	30.01	762.2	31	— 0.6	62	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.84	681.7	30.02	762.5	23	— 5.0	88	calm	0	0			fg.			0.25	6.3	dense fog	T. Gibson.
Bismarck, Dakota	28.37	720.6	30.16	766.1	33	0.6	81	ne.	4	1.8			10 s		ne.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.13	765.3	30.66	766.1	47	8.3	93	ne.	7	3.1			fg.			0	0	dense fog	J. T. Elker.
Boise City, Idaho	27.16	689.9	30.00	762.0	34	1.1	89	calm	0	0		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.00	762.0	30.16	766.1	48.0	8.9	100	sw.	1	0.4			fg.			0	0	dense fog	O. B. Cole.
Brownsville, Texas	29.80	756.9	29.84	757.9	76.0	24.4	85	se.	10	4.5			10 s		s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.26	743.2	30.00	762.0	53	11.7	86	ne.	8	3.6		3 k	7 ks	w.	w.	0.01	0.3	cloudy	W. Finn.
Buford, Fort, Dakota	28.21	716.5	30.19	766.8	32	0.0	81	e.	8	3.6			10 s			0	0	cloudy	F. A. Mellen.
Burlington, Vermont	29.87	758.7	30.16	766.1	40.0	4.4	82	n.	11	4.9			10 s		w.	0.11	2.8	cloudy	D. N. Farnell.
Cairo, Illinois	29.62	752.3	30.02	762.5	67.6	19.8	67	sw.	6	2.7		3 c	0	w.		0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.05	763.3	30.07	763.8	54	12.2	93	n.	16	7.2			10 ks		n.	0.07	1.8	cloudy	A. K. Alderson.
Cape May, New Jersey	30.07	763.8	30.10	764.5	51.0	10.6	93	ne.	10	4.5			fg.			0	0	dense fog	W. E. Smith.
Cape Mendocino, California	29.33	745.0	30.01	762.2	46	7.8	100	se.			2		10 ks		se.	0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	72	22.2	76	e.	2	0.9		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.03	762.7	30.08	764.0	62.0	16.7	73	n.	8	3.6		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.13	765.3	61.0	16.1	65	ne.	2	0.9		0	fg			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.32	744.7	30.14	765.5	57.5	14.2	83	w.	1	0.4		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.01	609.8	29.88	758.9	29.3	— 1.5	80	sw.	4	1.8		0	0			0.06	1.5	clear	E. McGovern.
Chicago, Illinois	29.23	742.4	29.93	760.2	43.3	6.3	89	nw	7	3.1			10 s			0.03	0.8	cloudy	John Laurens.
Chincoteague, Virginia	30.05	763.3	30.07	763.8	52	11.1	100	n.	22	9.8			fg.			inap.	inap.	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.39	746.5	30.04	763.0	63.0	17.2	68	se.	2	0.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.24	742.7	29.97	761.2	61.5	16.4	62	s.	8	3.6			10 n		w.	0.02	0.5	light rain	J. B. Newlin.
Coleman City, Texas	28.07	713.0	29.86	758.4	68	20.0	76	s.	8	3.6		0	8 s		s.	0	0	cloudy	T. J. Kenan.
Columbus, Ohio	29.10	740.7	30.00	762.0	60	15.6	65	s.	5	2.2		1 ck	0	sw.		0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	27.93	709.4	29.83	757.7	68.4	20.2	84	s.	4	1.8			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.30	744.2	29.94	760.5	46	7.8	83	ne.	9	4.0			10 s		ne.	0.45	11.4	cloudy	R. R. Martin.
Davis, Fort, Texas	25.11	637.8	29.83	757.7	56	13.3	55	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.33	719.6	30.08	764.0	38	3.3	72	ne.	8	3.6		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.38	744.6	29.90	759.4	23	— 5.0	100	calm	0	0			10 n			1.72	43.7	light snow	F. Willson.
Delaware Breakwater, Del	30.11	764.8	30.13	765.3	49	9.4	100	ne.	15	6.7			fg.			0	0	dense fog	T. S. Townsend.
Denver, Colorado	24.74	628.4	29.90	759.4	36.5	2.5	78	e.	2	0.9			10 s			0.03	0.8	cloudy	F. M. Neal.
Des Moines, Iowa	29.00	736.6	29.89	759.2	43	6.1	93	e.	6	2.7			10 s		e.	0.30	7.6	cloudy	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.93	760.2	48.0	8.9	93	se.	8	3.6			10 n			0.13	3.3	thud'r st'rm	E. R. Brace.
Dodge City, Kansas	27.46	697.5	30.01	762.2	36	2.2	72	ne.	24	10.7		0	6 s		n.	0	0	fair	J. H. Bryce.
Dubuque, Iowa	29.24	742.7	29.94	760.5	39.2	4.0	88	e.	10	4.5			10 n			0.28	7.1	thund'r st'm	J. Harvey Smith.
Duluth, Minnesota	29.47	748.5	30.22	767.6	35	1.7	79	ne.	30	13.4			10 s		ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.00	738.1	29.86	758.4	73.0	22.8	82	e.	6	2.7		10 cs	0			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.27	641.8	29.95	760.7	30	— 1.1	92	n.	6	2.7			10 s		n.	0.31	7.9	cloudy	H. R. Boynton.
Eastport, Maine	30.10	764.5	30.17	766.3	44.0	6.7	88	s.	4	1.8			10s;fg		s.	0.02	0.5	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.23	691.6	29.93	760.2	39	3.9	57	n.	20	8.9		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.20	665.5	29.84	757.9	54.0	12.2	57	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.26	743.2	29.98	761.5	51	10.6	80	w.	5	2.2		5 cs	0	w.		inap.	inap.	fair	C. A. Shaw.
Escanaba, Michigan	29.47	748.5	30.13	765.3	36.0	2.2	79	n.	16	7.2			10 s		n.	0.01	0.3	cloudy	George Heathcote.
Galveston, Texas	29.94	760.5	29.98	761.5	73	22.8	82	se.	12	5.4		2 cs	7 ks		s.	0	0	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.23	742.4	29.89	759.2	42.5	5.8	93	ne.	9	4.0			10 s			0.42	10.7	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.17	639.3	29.78	756.4	48	8.9	42	se.	4	1.8		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.94	760.5	29.96	761.0	56	13.3	100	n.	40	17.9			10 s		n.	2.23	56.6	cloudy	R. M. Crawford.
Helena, Montana	25.79	655.1	29.96	761.0	29	— 1.7	49	calm	0	0		3 cs	0			inap.	inap.	clear	N. C. Smith.
Huron, Dakota	28.73	729.7	30.08	764.0	33.5	0.8	95	nw.	6	2.7			10 n			0.65	16.5	light snow	S. W. Glenn.
Indianapolis, Indiana	29.15	740.4	29.94	760.5	65.0	18.3	68	s.	7	3.1		3 c;ck	0	w.		0.14	3.6	clear	O. F. R. Wappenhans.
Indianola, Texas	29.90	759.4	29.93	760.2	73.2	22.9	84	se.	12	5.4		5 cs	2 s	sw.	se.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.73	729.7	29.88	758.9	64	17.8	63	s.	5	2.2		0	6 s			0	0	fair	D. J. Carr.
Jacksonville Florida	30.06	763.5	30.10	764.5	66	18.9	68	n.	3	1.3		0	0			0	0	clear	J. W. Smith.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.66	702.6	30.11	764.8	31	— 0.6	81	calm	0	0			10 s			0.08	2.0	cloudy	W. B. Lamar.
Keokuk, Iowa	29.20	741.7	29.85	758 2	57.0	13.9	86	n.	3	1.3			10 s			inap.	inap.	cloudy	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	76.0	24.4	64	ne.	10	7.2		0	4 s		e	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.01	762.2	30.03	762.7	51	10.6	100	ne.	35	15.6			10s;fg		ne.	1.39	35.3	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	29.12	739.6	30.14	765.5	57	13.9	79	ne.	1	0.4		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.22	742.2	29.98	761.5	37	2.8	82	ne.	16	7.2			10 n			0.23	5.8	light rain	S. C. Emery.
Leavenworth, Kansas	28.98	736.1	29.86	758.4	55	12.8	74	e.	4	1.8			10 s		sw.	0.01	0.3	cloudy	A. W. Browne.
Lewiston, Idaho	29.30	744.2	30.14	765.5	37.0	2.8	85	e.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.67	753.6	29.98	761.5	66	18.9	78	s.	2	0.9		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.61	752.1	30.01	762.2	43	6.1	93	e.	5	2.2		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.44	747.8	29.99	761.7	66.5	19.2	70	se.	8	3.6		0	0			0	0	clear	L. M Dey.
Lynchburg, Virginia	29.44	747.8	30.12	765.0	57	13.9	72	calm	0	0		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.49	749.0	30.14	765.5	37.0	2.8	78	e.	23	10.3			10 s		e.	0.06	1.5	cloudy	D. H. Notson.
Macon, Fort, North Carolina	29.97	761.2	29.98	761.5	59.0	15.0	93	n.	28	12.5			10 s		n.	0.79	20.1	cloudy	William Daly.
Maginnis, Fort, Montana	25.60	650.2	30.00	762.0	25	— 3.9	64	se.	6	2.7			10 n		se.	0.27	6.9	light snow	F. Burke.
Marquette, Michigan	29.47	748.5	30.19	766.8	33	0.6	78	n.	5	2.2			10 s		nw.	inap.	inap.	cloudy	E. H. Thompson.
Memphis, Tennessee	29.69	754.1	30.02	762.5	68	20.0	70	s.	4	1.8		7 c	0	s.		0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.17	740.9	29.91	759.7	37	2.8	89	ne.	24	10.7			10 s		ne.	0.37	9.4	cloudy	W. Line.
Missoula, Fort, Montana	26.75	679.4	30.05	763.3	34	1.1	66	calm	0	0		0	0			0	0	clear	J. H. Young.
Mobile, Alabama	30.08	764.0	30.12	765.0	62	16.7	87	sw.	2	0.9		1 c	0	w.		0	0	clear	C. A. Read.
Montgomery, Alabama	29.87	758.7	30.10	764.5	59.2	15.1	82	calm	0	0		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.17	740.9	30.15	765.8	32	0.0	78	ne.	6	2.7		5 cs	0	n.		0	0	fair	H. Bessaut.
Mt. Washington, N. H.	23 82	605.0	30.00	762.0	31.5	— 0.3	100	nw.	44	19.7			fg.		nw.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.49	749.0	30.06	763.5	61.0	16.1	78	se.	4	1.8		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.03	762.7	30.15	765.8	51	10.6	93	ne.	8	3.6			10s;fg			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.12	765.0	30.16	766.1	51	10.6	100	n.	3	1.3			fg.			0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	67.0	19.4	87	se.	4	1.8		7 cs	0	nw.		0	0	fair	H. C. Smyth.
New York, New York	29.99	761.7	30.17	766.3	49	9.4	100	n.	3	1.3			fg.			0	0	dense fog	G. E. Franklin.
Norfolk, Virginia	30.05	763.3	30.08	764.0	54	12.2	100	n.	11	4.9			fg.			0.67	17.0	dense fog	Wm. Davis.
North Platte, Nebraska	27.17	690.1	30.04	763.0	32.6	0.4	78	nw.	10	4.5			10 s			0.02	0.5	cloudy	E. F. Brady.
Olympia, Washington T'y	29.99	761.7	30.03	762.7	41.0	5.0	92	calm	0	0		0	2 k			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.82	732.0	29.98	761.5	44.6	7.0	89	n.	8	3.6			10 s		n.	0.57	14.5	cloudy	A. Pollak.
Ooglaamie, Alaska	30.23	767.8	30.25	768.3	— 6.0	—21.1	100	ne.	14	6.3		0	2 s			0	0	clear	P. H. Ray.
Oswego, New York	29.76	755.9	30.10	764.5	44.0	6.7	93	ne.	11	4.9			10 s			0.09	2.3	cloudy	J. G. Linsley.
Palestine, Texas	29.45	748.0	30.00	762.0	67.0	19.4	90	s.	8	3.6		10 cs	0	s.		0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.09	764.3	30.12	765.0	63.1	17.3	91	sw.	4	1.8		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.06	763.5	30.16	766.1	51	10.6	100	n.	8	3.6			10s;fg			0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.66	448.0	29.72	754.9	4	—15.6	83	sw.	29	13.0		0	3 s			0	0	clear	H. Hall.
Pioche, Nevada	24.01	609.8	29.93	760.2	33.0	0.6	74	nw.	6	2.7		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.24	742.7	30.04	763.0	58.5	14.7	67	calm	0	0		0	0			0	0	clear	W. A. Reid.
Poplar River, Montana	27.99	710.9	30.11	764.8				se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.27	743.4	29.95	760.7	40.0	4.4	94	n.	4	1.8			10 n			0.16	4.1	light rain	M. H. Perry
Portland, Maine	30.09	764.3	30.14	765.5	52	11.1	76	s.	2	0.9			10 s		s.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.94	760.5	30.01	762.2	45.8	7.7	89	n.	3	1.3		8 cs	0	nw.		0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					58	14.4	86	ne.	32	14.3			10 s		ne.	3.09	78.5	cloudy	F. P. Chaffee.
Prescott, Arizona	24.70	627.4	29.80	756.9	31.5	— 0.3	52	s.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.13	765.3	30.16	766.1	47	8.3	93	n.	3	1.3			fg.			0	0	dense fog	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	69	20.6	01	ne.	14	6.3		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.69	754.1	30.04	763.0	52	11.1	66	s.	3	1.3			10 ks		s.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.42	747.3	30.08	764 0	42	5.6	100	e.	12	5.4			10s;fg			0.17	4.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.46	748.3	30.01	762.2	47.2	8.4	84	e.	1	0.4		0	9 s		w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.96	761.0	30.04	763.0	47.5	8.6	89	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.35	745.5	29.94	760.5	70.0	21.1	82	s.	7	3.1		4 c	0			0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.94	760.5	29.97	761.2	35	1.7	89	ne.	10	4.5		0	8 s		e.	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.16	740.7	30.00	762.0	37.0	2.8	82	ne.	12	5.4			10 ks		ne.	0.24	6.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.36	745.7	30.22	767.6	35	1.7	79	sw.	2	0.9		7 cs	0	sw.		0	0	fair	O. B. Dilley.
Salt Lake City, Utah	25.67	652.0	29.99	761.7	38	3.3	48	calm	0	0		2 k	0			0.22	5.6	clear	J. Craig.
San Antonio, Texas	29.21	741.9	29.91	759.7	70	21.1	84	e.	4	1.8			10 s		se.	0	0	cloudy	J. H. Davis.
San Diego, California	29.92	760.0	29.99	761.7	47.0	8.3	86	ne.	4	1.8		0	0			0	0	clear	A. C. Dobbins
Sandy Hook, New Jersey	30.13	765.3	30.16	766.1	47.0	8.3	100	ne.	10	4.5			fg.			0	0	dense fog	B. A. Blundon
Sanford, Florida	30.03	762.7			66	18.9	84	ne.	3	1.3		0	0			0	0	clear	J. B. Marbury.
San Francisco, California	30.02	762.5	30.09	764.3	48.5	9.2	89	w.	5	2.2		0	fg.		w.	0	0	light fog	N. Gorom.
Santa Fé, New Mexico	23.15	588.0	29.76	755.9	40	4.4	35	e.	2	0.9		10 c	0	w.		0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	62	16.7	72	nw.	4	1.8		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.30	669.5	29.96	761.0	22	— 5.6	87	sw.	2	0.9		4 cs	0			0.08	2.0	fair	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.04	763.0	65.7	18.7	91	s.	3	1.3		0	3 s		s.	0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.64	727.4	29.80	758.4	64.5	18.1	79	se.	11	4.9			10 ks		w.	0	0	cloudy	W. M. Mattingly.
Sitka, Alaska	29.93	760.7	30.01	762.2	44.5	6.9	88	e.	4	1.8			10 s		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.48	748.8	29.95	760.7	67.5	19.7	73	s.	3	1.3		4 c	0	s.		0	0	fair	J. B. Campbell.
Smithville North Carolina	30.00	762.0	30.04	763.0	59	15.0	81	n.	12	5.4			9 ks		n.	0.11	2.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.06	712.7	30.11	764.8	48	8.9	66	calm	0	0		4 ck	5 s			0	0	cloudy	John F. Hemenway.
Springfield, Illinois	29.20	741.7	29.87	758.7	62	16.7	72	s.	6	2.7		3 c	hz.	sw.		0.22	5.6	clear	T. B. Jennings.
Springfield, Missouri	28.51	724.1	29.93	760.2	65.0	18.3	68	nw.	3	1.3		7c;cs	0	sw.;w.		0	0	fair	J. H. Bryce.
Starkville, Miss	29.03	752.6	30.10	764.5	64	17.8	84	s.	5	2.2		3 c	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.34	719.8	30.17	766.3	30	— 1.1	88	calm	0	0			10 s		e.	0	0	cloudy	A. Schneider.
Stockton, Fort, Texas	26.85	682.0	29.86	758.4	56	13.3	80	sw.	6	2.7		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.11	764.8	30.16	766.1	45.3	7.4	93	s.	2	0.9			fg.			0	0	dense fog	G. Liebmann.
Thomas, Camp, Arizona	27.20	690.9	29.87	758.7	47	8.3	52	nw.			1	4 cs	0			0	0	fair	J. T. Fitzgerald.
Toledo, Ohio	29.25	742.9	29.93	760.2	49	9.4	86	e.	5	2.2			10 s		w.	0	0	threatening	A. Buell.
Tucson, Arizona	27.50	698.5	29.84	757.9	49	9.4	46	se.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.49	749.0	29.51	749.5	40	4.4	89	se.	22	9.8			10 s		se.	0.10	0.3	threatening	Samuel Applegate.
Verde, Fort, Arizona					42	5.6	36	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.83	757.7	30.08	764.0	64.6	18.1	92	se.	5	2.2		3 c	0	w.		0	0	clear	James Kenealy.
Visalia, California	29.07	753.6	30.04	763.0	46.0	7.8	83	nw.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.42	620.0	29.90	759.4	21.2	— 6.0	89	se.	8	3.6			10 k			0.05	1.3	cloudy	T. M. Ambler.
Washington, D. C.	30.04	763.0	30.15	765.8	56.1	13.4	79	ne.	2	0.9		0	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.10	662.9	29.96	761.0	34	1.1	82	ne.	3	1.3		4 c	6 s	w.	n.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.51	749.5	30.11	764.8	55	12.8	69	se.	6	2.7		0	4 k			0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.00	762.0	30.05	763.3	60	15.6	81	n.	10	4.5			10 s		n.	0.01	0.3	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.66	651.8	30.00	762.0	32	0.0	88	ne.	5	2.2		0	8 s		w.	0.10	2.5	cloudy	J. Grover.
Yankton, Dakota	28.74	730.0	30.02	762.5	36	2.2	79	n.	8	3.6			10 s			0.73	18.5	cloudy	J. H. Atfield.
Yuma, Arizona	29.72	754.9	29.88	758.9	49.7	9.8	72	n.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			53.0	11.7	66	ne.	1	0.4		3 c	0	w.		0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.00	762.0			84	calm	0	0		1 cs	3 s		e.	0	0	fair	Robert Johnston.
Paramaribo, S. A.	29.97	761.2	29.97	761.2	77	25.0	86	e.			3	4 c	5 k	e.	e.	0.170	4.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.35	759.7	29.91	745.5	77	25.0	89	calm			0		10 ks		s.	0.01	0.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					80	26.7	98	ne.			3	3 cs	6 n	nw.	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
Santiago de Cuba, W. I.	29.97	761.7	29.99	761.2	82	27.8	72	calm	0	0		0	4 ks			0	0		R. Mason.
York Factory, B. A.	29.76	757.7	29.83	755.9	12.5	—10.8	90	w.	5	2.2		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandria, Malta, Mediterranean	29.68	753.9	74	23.3	68	e.			2		1	ese						blue sky.
H. M. S. Dido. Barbadoes, W. I.	30.02	762.5	80	26.7		e.			2		7	w.				1	se.	d. clouds.
H. M. S. Flamingo, N. 19° 17′, W. 73° 10′	29.97	761.2	85	29.4	87	sw.			1		1	sw.				sm'h		blue sky.
H. M. S. Iris, Port Said, Egypt	29.95	760.7	67	19.4	89	n.			4		1	nne.						blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.71	754.6	58	14.4	82	wsw.			3		8							d. clouds.
H. M. S. Rocket, N. 33° 00′, W. 42° 00′	30.16	766.1	68	20.0	90	w.			3		3	wsw.						showery.
H. M. S. Tenedos, Halifax, N. S.	30.24	768.1	45	7.2	84	se.			1		9	sse.						d. clouds.
U. S. Navy Yard, Pensacola, Fla	30.09	764.3	66	18.9	84	ne.	2	0.9			5		ne.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H.*	30.10	764.5	52	11.1	53	se.	4	1.8			10			0	0			foggy.
U. S. S. Alliance, N. 27° 40′, W. 79° 17′	30.04	763.0	75	23.9	77	nnw.			3		8			light	light	long		cloudy.
U. S. S. Colorado, New York, N. Y.	30.26	768.6	49	9.4	100	ne.	1	0.4			10		calm	0	0			foggy.
U. S. S. Franklin, Norfolk, Va	30.04	763.0	54	12.2	100	ne.	14	6.3			10		calm	0.57	14.5			foggy.
U. S. S. Jamestown, N. 24° 02′, W. 81° 25′	29.90	759.4	78	25.6	73	n.			4		2			0	0	sm'h		clear.
U. S. S. Kearsarge, Charleston, S. C	30 12	765.0	63	17.2	83	n.			4		0							clear.
U. S. S. Lancaster, Gravesend, Eng	29.81	757.2	51	10.6	79	nne.			2		5		calm			sm'h		fair.
U. S. S. Michigan, Cleveland, O.	29.96	761.0	62	16.7	88	s.			2		10		sw.					raining.
U. S. S. Minnesota, New York, N. Y.	30.17	766.3	52	11.1	86	nne.			1		0							foggy.
U. S. S. New Hampshire, Newport, R. I.	30.14	765.5	50	10.0	100	nne.			2		0					sm'h		foggy
U. S. S. Portsmouth, Hampton Roads, Va	30.12	765.0	53	11.7	93	n.			4		10					sm'h		overcast.
U. S. S. Powhatan, Key West, Fla	29.96	761.0	76	24.4	95	ne.			2		5							fair
U. S. S. Quinnebaug, Monrovia, Liberia, Africa	29.97	761.2	81	27.2	87	ne.			2		5		ne.			sm'h		fair.
U. S. S. Saratoga, N. 24° 23′, W. 50° 51′	30.21	767.3	74	23.3	81	ne.			4		2		ne.	0	0	sm'h	ne.	fair.
U. S. S. St. Louis, League Island, Pa.	30.16	766.1	51	10.6	93	n.	2.4	1.1			10							misty.
U. S. S. Swatara, Aspinwall, U. S. C†	29.83	757.7	82	27.8	87	nne.			2		10		nne.	mod.	mod.	sm'h		cloudy.
U. S. S. Tennessee, Fort Monroe, Va	30.11	764.8	57	13.9	94	n.					10			0.11	2.8			foggy.
U. S. S. Vandalia, Norfolk, Va	30.06	763.5	58	14.4	94	n.			3		10							misty.
U. S. S. Wabash, Boston, Mass.	30.17	766.3	49	9.4	93	calm	0	0			10		se.	0	0			cloudy.
U. S. S. Yantic, Charleston, S. C.	30.09	764.3	63	17.2	72	n.			2		0							clear.
Commewyne, N. 25° 45′, W. 54° 59′	30.18	766.6	76	24.4	72	e.			4		4							d. clouds
S.S. St. Kilda, Demerara, Brit. Guiana	29.97	761.2	80.6	27.0	83	ne.			2		4							d. clouds.
S. S. Illinois, N. 38° 48′, W. 71° 36′			53	11.7		ne.			4							long	e.	foggy.
S. S. Lord Gough, N. 39° 53′ W. 53° 03′	30.34	770.6	57	13.9		e.			3		5?		e.	0	0	mod.	e.	cloudy.?
S. S. Ohio, N. 43° 42′, W. 36° 33′†	29.88	758.9	55	12.8	87	nne.			7		7		nnw.	4 h'r	4 h'r	large	nw.	cloudy.
S. S. Pennsylvania, N. 39° 08′, W. 54° 00′ †	30.38	771.6	58	14.4		e.			3		3		e.			sm'h	n.	fine.
S. S. Circassian, N. 46° 45′, W. 46° 30′	30.45	773.4	48	8.9	92	w.			2		3		wsw.	0	0	1	wsw.	d. clouds.
S. S. Grecian, St. Lawrence river, Canada	30.22	767.6	47	8.3	85	calm			0		1			2 h'r	2 h'r			clear.
S. S. Scandinavian, Indian Cove, St. Lawrence river*	30.04	763.0	40	4.4		nne.			4		4		nne.	0	0			d. clouds.
S. S. Antillas, N. 19° 20′, W. 75° 00′			84	28.9		ne.			2							sm'h		fine.
S. S. Jason, N. 37° 28′ W. 71° 46′ †	30.12	765.0	69.8	21.0		ne.			4-5		9 n					5	ne.	foggy.
S. S. Alvo, Arroyo, Puerto Rico, W. I.	30.02	762.5	78	25.6		se.			5		7k;kn		ese.	3 h'r	3 h'r	long	con	rainy.
S. S. Alene, N 10° 35′, W. 82° 40′ †	29.92	760.0	80	26.7		nne.			3		8		ne.	4 h'r	4 h'r	reg.	nne.	sprinkling.
S. S Alisa, Aux Cayes, Hayti, W. I†	29.90	759.4	84	28.9														
S. S. Bolivia, N. 46° 27′, W. 70° 46′ *†	30.18	766.6	47	8.3		ene.			1		10		ene.	0	0	sm'h	e.	dense fog.
S. S. Dorian, N. 34° 09′, W. 35° 00′	30.14	765.5	68	20.3		wsw.			6		4		w.	0	0	sl't	n.	fine.
S. S. Furnesia, Liverpool, Eng †	29.96	761.0	74.7	23.7	89	nw.			2		8		nw.	0	0			cloudy.
S. S. Elysia, N. 38° 57′, W. 23° 46′	29.92	760.0	58.2	14.6	93	nnw.			4		6		nnw.	rain	rain	mod.	nnw.	fair.
S. S. Llandaff City, Bristol, Eng †	29.74	755.4	52	11.1		ne.					5			sh'rs	sh'rs			
S. S. Pavonia, N. 40° 20′, W. 69° 59′	30.05	763.3	47	8.3	92	e.			4		7		ese.	0	0	sm'h		cloudy.
S. S. Scythia, N. 47° 02′, W. 36° 54′	29.79	756.7	50	10.0	93	nnw.			6		10		nw.	4 h'r	4 h'r		var.	overcast.
S. S. Canada, N. 46° 07′, W. 38° 20′	29.81	757.1	46.4	8.0		nnw.			5	ck	0	nnw.		0	0	h'vy	nnw.	squally.
S. S. Pereire, N. 48° 48′, W. 23° 05′†	30.13	765.3	53.6	12.0		ne.			3		0			0	0	r'gh	ne.	clear.
S. S. Ville de Marseilles, N. 22° 36′, W. 90° 10′			76	24.4		se.			5		4		se.	0	0	mod.	se.	fair.
S. S. Abyssinia, N. 41° 10′, W. 56° 48′			64	17.8	89	ssw.			5		10		sw.	0	0	mod.	ssw.	gloomy.
S. S. Bohemia, N. 49° 41′, W. 7° 55′						e.			4		8		e.	0	0	long	e.	fair.
S. S. Gellert, New York, N. Y.	30.20	767.1	54	12.2	78	ene.			2		10			0	0			foggy.
S. S. Rugia, N. 41° 12′, W. 58° 06′	30.44	773.2	64	17.8		se.			6		1			0	0	mod.		clear
S. S. Silesia, N. 49° 48′, W. 14° 26′	30.01	762.2	51	10.6		nne.			3		4		une.	0	0	4	nne.	fair.
S. S. Westphalia, N. 46° 12′, W. 38° 16′	29.75	755.6	49	9.4	85	nw.			6-7		10		nw.	10 h'r	10 h'r	h'vy	n.	stormy.
S. S. City of Berlin, N. 45° 13′, W. 38° 34′	29.95	760.7	52	11.1	73	nw.			6		7		n.	0	0	high	nw.	cloudy.
S. S. Bulgarian, N. 43° 45′, W. 52° 56′†	30.51	774.9				se.			1		3			0	0			clear.
S. S. Colorado, N. 27° 44′, W. 90° 55′ †	30.06	763.5	66	18.9		ese.			6		4		ese.	0	0	mod.	ese.	fair.
S. S. Rio Grande, N. 35° 56′ W. 75° 20′ *†	29.95	760.7	52	11.1		ne.			4		10		var.			high	e.	foggy.
S. S. Chalmette, New York, N. Y†	30.19	766.8	50	10.0		n.			3					0	0			foggy.
S. S. New York, N. 38° 13′, W. 74° 30′ *†	30.00	762.0	48	8.9		n.			4							h'vy	ese.	foggy.
S. S. Alleghany, Baltimore, Md†	30.13	765.3	58	14.4		n.			1		0			0	0			hazy.
S. S. Archimede, New York Bay, N. Y †	30.16	766.1	58	14.4	64	ene.			2		8		ene.	0	0			foggy.
S. S. City of Washington, N. 23° 10′, W. 83° 25′†	30.03	762.7	80	26.7		ene.			4		5		ene.	0	0	sm'h		fair.
S. S. Denmark, New York, N. Y†	30.08	764.0	50	10.0		w.			2		2			0	0			light fog.
S. S. England, N. 40° 54′, W. 53° 43′	30.38	771.6				ne.			4		0			0	0	mod.	ne.	clear
S. S. Helvetia, N. 51° 45′, W. 8° 10′	30.05	763.3	52	11.1	100	nnw.			1		2		nnw.	0	0	sm'h		clear.
S. S. Holland, N. 44° 56′ W. 38° 06′	29.81	757.2	51	10.6		n.			7		8		nw	0	0	high	n.	cloudy.
S. S. America, N. 43° 06′, W. 36° 52′*	29.89	759.2	58.0	14.4	85	nnw.			7		5		nnw.	2 h'r	2 h'r	h'vy	nnw.	showery.
S. S. Donau, N. 49° 44′, W. 16° 26′	30.14	765.5				nne.			5		8		nne.	1 h'r	1 h'r	mod.	nne.	cloudy.
S. S. Elbe, off Beachy Head, Eng	29.85	758.2	48	8.9	86	calm			0		2			0	0	sm'h		clear.
S. S. Fulda, N. 49° 45′, W. 6° 51′	29.87	758.7	54	12.2	87	ne			5		2		ne.	1 h'r	1 h'r	sm'h	ene.	clear.
S. S. Habsburg, N. 49° 26′, W. 11° 23′	29.97	761.2				ne.			3		7		ne.	½h'r	½h'r	sm'h	ne.	drizzling
S. S. Hermann, N. 40° 42′, W. 55° 45′	30.42	772.7	64	17.8	84	e.			4		2		e.	0	0	mod.	e.	clear.
S. S. Main, N. 44° 20′, W. 43° 25′	30.30	769.6	48	8.9		nne.			6		5		ne.	14 h'r	14 h'r	high	ne.	fair.
S. S. Oder, N. 41° 40′, W. 41° 22′	30.15	765.8	55.4	13.0		nnw.			6		8		unw.	0	0	cross	nnw	cloudy.
S. S. Strassburg, N. 50° 23′, W. 1° 42′	29.92	760.0	64.0	17.8	67	sw.			1		6		se.	0	0	1		fair.
S. S. Weser, N. 49° 49′, W. 6° 38′	29.94	760.5				nne.			4		1		n.	0	0	sm'h	une.	clear.
S. S. Orinoco, New York, N.Y.			62	16.7		calm			6		fg			12 h'r	12 h'r			foggy.
S. S. Muriel, Barbadoes, W. I.	29.96	761.0	84	28.9		ene.			3		0			0	0	sm'h		clear.
S. S. City of Augusta, Savannah, Ga †	30.15	765.8				nnw.			3		2		nw.	0	0			clear.
S. S. Belgenland, N. 41° 30′, W. 46° 00′			51	10.6	72	nne.			6		0			0	0	r'gh	nne.	clear.
S. S. Nederland, N. 47° 57′, W. 25° 15′			53	11.7	93	ene.			4		2		ene.	0	0	mod.	ene.	clear.
S. S. Rhynland, Antwerp, Belgium	29.79	756.7	44	6.7	92	wnw.			5		9		nw.	5 h'r	5 h'r			rainy.
S. S. Pennland, N. 50° 42′, E. 0° 09′	30.01	762.2	48	8.9	78	s.			2		2		s.	0	0	sm'h		
S. S. Waesland, N. 40° 28′, W. 73° 16′	30.15	765.8	47	8.3		nne.			4		10		n.	0	0	light	nne.	dense fog.
S. S. Zeeland, Isle of Wight, Eng *†	29.82	757.4	55	12.8		n.			3				n.	0	0	sm'h		hazy.
S. S. P. Caland, Rotterdam, Holland	29.78	750.4	50.4	10.2	81	ene.			2		4		ene.					fair.
S. S. Leerdam, N. 49° 55′, W. 25° 26′	30.16	766.1	56	13.3	87	se.			3		5		sse.			sm'h	e.	fair.
S. S. W. A. Scholten, N. 40° 27′, W. 64° 45′	30.21	767.3	57.2	14.0	90	sse.			4		10		sw.	1 h'r	1 h'r	6	se.	rainy.
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	81	27.2	83	ene.			2		2		ene.	0	0	mod.	ne.	clear.
S. S. Claudius, N. 31° 10′, W. 78° 20′ †	30.10	764.5	70.0	21.1	90	nw.			6		10		nnw.	0	0	high	var.	overcast.
S. S. State of Nebraska, N 50° 12′, W. 30° 15′ †*	30.04	763.0	54	12.2		se.			4		0			0	0	sm'h		clear.
S. S. State of Alabama, N. 40° 46′, W. 65° 26′ *	30.15	765.8	55	12.8		e.			3		10		e.	8 h'r	8 h'r	sm'h		cloudy.
S. S. Lepanto, N. 36° 57′, E. 5° 43′*	29.91	759.7	58	14.4		ne.			1		10		e.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Otranto, N. 49° 26′ W. 19° 32′	30.23	767.8	60	15.6		ne.			6		1		ne.	0	0	mod.	ne.	clear.
S. S. Romano, New York, N. Y†	30.07	763.8	48	8.9		ene.			1		10							foggy.
S. S. Salerno, N. 37° 31′, E. 4° 14′ †	29.85	758.2	60	15.6		e.			6		10		e.	2 h'r	2 h'r	r'gh	e.	cloudy.
S. S. Dominion, N. 47° 26′, W. 44° 57′*†	30.34	770.6	37	2.8		nw.			4		0					mod	nw.	clear.
S. S. Toronto, N. 42° 29′, W. 44° 36	30.21	767.3	48	8.9		nnw.			6		2		nnw.	0	0	short	n.	clear.
S. S. Oregon, Mersey River, Eng	29.82	757.4	55	12.8		nne.			5		8		nne.					cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Lake Huron, N. 47° 33′ W. 48° 55′	30.35	770.9	31	— 0.6		wnw.			2		0			0	0	long	nne.	clear.
S. S. Lake Manitoba, N. 44° 02′, 46° 45′			41	5.0		n.			6		0			0	0	mod.	nne.	clear.
S. S. Daniel Steinmann, Boston, Mass†	30.18	766.6	55	12.8		se.			3		0			0	0			misty.
S. S. Norman, N. 42° 02′, W. 70° 00′	30.08	764.0				se.			1		5		e.	0	0	sm'h	e.	fair.
S. S. Saxon, N. 41° 35′, W. 69° 55′ †	30.15	765.8				ene.			4		10			0	0			dense fog.
S. S. Adriatic, N. 49° 56′, W. 21° 46′*†	30.27	768.8	56	13.3	87	ene.			4		7		ene.	0	0	sm'h	ene.	fair.
S. S. Republic, N. 40° 11′, W. 68° 12′ †	30.22	767.6	55	12.8		e.			2		7			0	0	3	ene.	misty.
S. S. Antonio Lopez, Havana, Cuba, W. I	30.04	763.0	76	24.4	95	ene.			1		3			0	0			clear.
Schr. Abbie H. Gheen, Brooklyn, N. Y†	30.21	767.3	52	11.1		nne.			1					0	0			foggy.
Bk. Aquidneck, N. 16° 41′, W. 58° 02′*†	30.20	767.1				var.			6				var.	light	light	light	ese.	cloudy.
Bk. Alcira, N. 30° 11′, W. 65° 48′	30.02	762.5	74	23.3		sse.			4		10		s.	0	0	mod.	var.	hazy.
Bk. Adelaide, N. 31° 58′, W. 57° 00′*†	30.28	769.1	75	23.9		ese.			4		4		e.	4 h'r	4 h'r	mod.	ene.	fair.
Schr. Annie R. Lewis, N. 37° 20′, W. 72° 36′ †	30.02	762.5	66	18.9		ene.			5		10		e.	6 h'r	6 h'r	r'gh	e.	foggy.
Bk. Aureola, Barbadoes, Cuba, W. I†	29.90	759.4	88	31.1		ene.			3		3		ene.	0	0			clear.
Bk. Achille F, N. 41° 30′, W. 19° —′†	29.85	758.2	56	13.3	83	nne.			6		4		nne.	4 h'r	4 h'r	h'vy	nne.	fair.
Bk. Alba, N. 61° 20′, W. 49° 02′*†	30.16	766.0	32.9	0.5		nw.			5									
Bk. Annie R. Storer, N. 34° 30′, W. 73° 00′ †	29.70	754.4				ne.			5		8		e.	12 h'r	12 h'r	r'gh	ese.	squally.
Brt. Achsah, Kingston, St. Vicent, W. I†	29.91	759.7	81	27.2		ene.			4		2		ene.	0	0			clear.
Bk. Champion, N. 21° 12′. W. 31° 40′			72	22.2	80	s.			2		2		e.	1 h'r	1 h'r	sm'h		clear.
Bkt. O. S. Bushnell, N. 33° 59′, W. 47° 36	30.30	769.6				ne.			5		8		ne.	0	0	h'vy	var.	fine.
Ship. Cornelius, N. 48° 09′, W. 32° 34′†	29.94	760.5	54.5	12.5		ese.			7		5			0	0	cross	var.	fair.
Bk. Commerce, N. 29° 41′ W. 64° 25′			73	22.8		sse.			2		8		s.	0	0	sm'h	se.	fine.
S. David Stewart, Chesapeake Bay†	30.20	767.1				ene.			2		2		ne.	rain	rain			
S. S. D. J. Foley, Port Antonio, Jamaica, W. I*†	30.00	762.0	77	25.0	91	se.			2		5		se.	2 h'r	2 h'r			fair.
Bk. Don Justo, N. 35° 56′, W. 74° 55′						nne.			2		10		nne.	0	0	r'gh	ne.	misty.
Schr. Edith R. Seward, N. 28° 10′, W. 69° 56′ †.	30.00	762.0	75	23.9		sw.			2		4		w.	0	0	mod.	wnw	clear.
S. E. J. Spicer, Liverpool, Eng	29.84	757.9	49	9.4	85	ne.			5		10		ne.	0	0			overcast.
U. S. Fish Com. S. S. Fish Hawk, Quantico Creek, Va†	30.21	767.3	59	15.0	88	n.			2		2		sse.	0	0			clear.
Schr. F. E. McDonald, Cedar Keys, Fla †	30.07	763.8				e.			1					0	0			clear.
S. Festina Lente, N. 43° 47′, W. 61° 52′	30.23	767.8	40	4.4		se.			4		5		sw.	0	0	sm'h		fine.
Bg. Gipsy Queen, Cardenas, Cuba, W. I*†	30.05	763.3				ssw.			4									fair.
Bk. Godeffroy, N. 26° 02′, W. 66° 50′ *	30.02	762.5	75.6	24.2	92	s.			4-5		8			hv'y	hv'y	mod.	var.	raining.
Bg. Galeon, N. 21° 30′ W. 89° 00′†	29.97	761.2				sse.			4		1		sse.	0	0	sm'h	ene.	misty.
S Hedwig, N. 36° 11′, W. 63° 24′	30.11	764.8	68.0	20.0	97	se.			6		9		se.	12 h'r	12 h'r	5	ese.	clearing.
Bk. Hattie G. McFarland, N. 37° 56′, W. 74° 05′ *†	30.00	762.0	52	11.1		n.			5		fg.			0	0	r'gh	ese.	
Bk. John H. Pearson, N. 33° 14′, W. 54° 47′						se			4				s.	0	0	long	ne.	cloudy.
Schr. Isabel Alberto, N. 31° 40′, W. 77° 50′†	29.95	760.7				n.			6		8		n.	light	light	h'vy	nne.	cloudy.
Bk. Cato, Setubal, Portugal*†	29.67	753.6				s.			4		5		s.	rain	rain			fair.
Schr. John L. Thomas, N. 25° 30′, W. 79° 48′*†	30.14	765.5				n.			2		1		n.	0	0	hv'y	n.	clear.
Bg. John Wesley, Baley's Mills, Ga*†	30.02	762.5				nne.			2		0			0	0			clear.
Schr. Jennie N. Huddell, Cape Fear River, N. C†	30.04	763.0	62	16.7	72	n.			5		5		nne.	0	0			fair.
Schr. Leonessa, N. 33° 00′, W. 77° 40′†	29.91	759.7				n.			9		10		n.	6 h'r	6 h'r	cross	var.	
Bg. L. & W. Armstrong, St. Juan, Porto Rico, W. I*	30.04	763.0							1		1		ene.	1½h'r	1½h'r			clear.
Light House Tender Laurel, off St. Marks, Fla†	30.11	764.8	71	21.7		e.			1		0			0	0			clear.
Bg. Lilian, N. 28° 30′, W. 58° 30′ †	30.15	765.8	76	24.4		sse.			3		6		se.	1 h'r	1 h'r	mod.	se.	fair.
Bk. Louise Adelaide, off Gun Key, W. I†	29.97	761.2	82	27.8		n.			1		4		ne	0	0	sm'h	n.	fair.
S. S. Madrid, N. 36° 40′, W. 0° 25′†	29.84	757.9	61	16.1	77	ene.			2		0			0	0	sm'h		clear.
Schr. Minnie A. Bonsall, Brunswick, Ga†	30.11	764.8	70	21.1		nnw.			1		0			0	0			clear
Bkt. Kryolith, N. 50° 22′, W 13° 24′*†.	30.05	763.3				nne.			5		2		n.	0	0	mod.	n.	clear.
S. Mt. Washington, N. 31° 30′ W. 39° 50′*†	30.26	768.6	70	21.1	80	wsw.			3		0			0	0	mod.	e.	clear.
Bgt. Myrtle, Clementsport, N. S*†	30.26	768.6				sw.			4		10		sw.					raining.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†	29.96	761.0							2		2		e.	0	0			clear.
Bg. O. C. Clary, N. 29° 41′, W. 70° 11′ *†	29.82	757.4	73	22.8		ssw.			5		4		wsw.			r'gh	wnw.	fair.
S. S. Raleigh, N. 36° 20′, W. 73° 50 †	29.95	760.7	60	15.6		nne.			6		10		ne.			h'vy	ne.	threatening.
S. Rudolph, N. 42° 50′ W. 31° 05′			54.0	12.2		sse.			6		9		s.	0	0	long	var.	cloudy.
Bk Rebus, N. 39° 08′, W. 49° 20′	30.37	771.4	56	13.3		ene.			4		2		e.	0	0	mod.	nne.	fair.
Bg. Rising Sun, N. 24° 00′, W. 080 40′*†	29.93	760.2	80	26.7		s.			4		5		sw.	0	0	mod.	s.	fair.
Bk. Rosalie, N. 27° 15′, W. 61° 08′ *†	30.11	764.8				se.			4				sse.	½h'r	½h'r	light	se.	clear.
S. Salisbury, N. 45° 07′, W. 19° 08′ *	30.03	762.8	55.0	12.8	81	ne.			4		5		ne.	0	0	cross	nne.	fair.
Bk Southern Belle, Off Huelva, Portugal†	29.57	751.1	60	15.6		baff								sq'lls	sq'll's			heavy rain
S. St. Francis, N. 1° 56′, W. 28° 54′ †.	30.00	762 0	88	31.1	62	e.			3		3		ne.	0	0	mod.	ne.	fair.
Bk. St. Lawrence, N. 30° 57′, W. 54° 58′*†	30.15	765.8				baff							ssw.	0	0	h'vy	n.	fair.
S. S. Strathleven, N. 32° 14′, E. 29° 36′	30.02	762.5	64.0	17.8	85	ene.			2		0			0	0	1	w.	blue sky.
Bkt. Sunlight, N. 26° 37′, W. 56° 52′						ese.			3		3		ese.	0	0	mod.	se.	fair.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	29.96	761.0				n.			1		0							
S. Vincenzo Accame, N. 36° 40′. W. 38° 30′†	30.06	763.4	71.6	22		w.			5		8		w.	4 1-6	h'r	light	var.	squally.
Bk. Winifred, N. 4° 05′, W. 40° 40′ *†	30.05	763.3											ene.	0	0		ne.	d. clouds.
S. Wm. Wilcox, N. 38° 00′, W. 74° 30′*†	30.10	764.5				ne.			5		fg.			0	0	short	se.	foggy.
S. Wm. McGilvery, N. 35° 28′, W. 46° 00′*†	30.28	769.1	66	18.9	64	ne.			6		6		ene.	0	0	mod.	ene.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.08	764.0	59	15.0	94	ne.			2		8	sw.						misty.
H. M. S. Boadicea, Cape Town, Cape Colony, Africa	29.99	761.7	63	17.2	89	w.			1		5							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.03	762.7	58.2	14.6	94	nne.			2		8	calm						d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*.	30.01	762.2	59	15.0	94	ne.	5	2.2			10		ne.	0	0	sm'h		hazy
U. S. S. Enterprise, Cape Town, Cape Colony, Africa*	29.98	761.5	65	18.3	84	nw.			2		2		n.			sm'h		clear.
U. S. S. Galena, Montevideo, Uruguay*	30.01	762.2	59	15.0	100	nne.			2		10					sm'h		cloudy.
S. S. Jerome, Para, Brazil*	29.76	755.9	80	26.7		var.			1		3		se.	1 h'r	1 h'r			clear.
S. S. Archimedes, Rio de Janeiro, Brazil	30.07	763.8				ne.			2		8		nw.	0	0			cloudy.
S. S. Hevellus, S. 23° —′, W. 38° —′†	30.22	767.6	79	26.1		s.			4		2		ssw.	0	0	sm'h		clear.
S. S. Ptolemy, S. 1° 15′, W. 30° —′	30.01	762.2	82.2	27.9	75	ese.			2	c;cs	4 kn			0	0	1	ese.	fair.
Bk. Childwall, S. 2° 39′, W. 30° 56′ *	29.86	758.4	86	30.0		ese.			1		2		se.	0	0	sli't	ne.	clear.
Bk. Gronsvaer, S. 19° 02′, W. 33° 08′†	30.04	762.9	78.0	25.6		var.			1		2		sw.	½h'r	½h'r	sm'h		clear.
S. Minnie N. Gerow, S. 14° 27′, W. 35° 14′ †.	30.02	762.5	80	26.7		se.			4		2		se.	0	0	sm'h	s.	clear.
S. S. Mendoza, S. 24° 16′, W. 37° 55′ †	30.25	768.3				ese.			1				ese.	1 h'r	1 h'r	sm'h	sse.	clear.
S. Paramita, S. 54° 06′, W. 59° 28′ †	30.39	771.9	40	4.4		s.			1-4		2		se.	0	0	small	ssw.	clear.
S. Storm King, S. 35° 21′, W. 50° 35′ *†.	30.15	765.8				e.			2		1		e.	0	0	sm'h	se.	clear
Inchkeith, S. 21° 53′, W. 0° 05′	30.14	765.5	75	23.9	68	se.			3		4							d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Save Moon Bay, China	29.93	760.2	61	16.1	88	nnw.			5		4	n.				4	n.	squally.
H. M. S. Champion, N. 5° 00′, E. 104° 00′	29.68	753.9	85	29.4	100	ese.			2		2					1	se.	d clouds.
H. M. S. Sappho, N. 8° 48′, W. 79° 32′			79	26.1	91	calm			0		5	s.						d. clouds.
H. M. S. Flying Fish, N. 31° 24′, E. 121° 32′	30.02	762.5	58	14.4	82	nnw.			3-6		4					2	nnw.	squally.
H. M. S. Swiftsure, Esquimalt, V. I	30.15	765.8	50	10.0	100	calm			0		10	sse.						overcast.
H. M. S. Zephyr, N. 37° 33′ E. 121° 25′	30.03	762.7	54	12.2	87	nnw.			3		4	n.				2	ne.	d. clouds.
H.P. M. S. Tamega, Macao, China	29.83	757.7	81.5	27.5	80	calm			0		8			4 h'r	4 h'r			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.11	764.8	50.5	10.3	96	n.			2		10		n.	0.04	10.3			raining.
U. S. S. Adams, off Cape Flattery, Wash. Ter †	30.03	762.7	49	9.4	85	ne.			4		0					gr'd	se.	clear.
U. S. S. Monocacy, Nagasaki, Japan	29.73	755.1	63	17.2	100	n.			3		10							rainy.
U. S. S. Palos, Hong Kong, China	29.72	754.9	78	25.6	91	ssw.			1		8		calm					cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.75	755.9	80	26.7	91	s.			1		8		s.	2.	51.			cloudy
S. S. Oceanic, N. 41° 04′, W. 159° 20′*	30.11	764.8	51	10.6	79	ssw.			5		3		wsw.			3	w.	clear.
S. S. City of Chester, Cape Mendocino, Cal †	30.11	764.8	50	10.0	86	wnw.			4		10			0	0	light	nw.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Oregon, Portland, Oregon †	30.00	762.0	44	6.7	92	calm			0		8		s.					cloudy.
S. S. Dakota, N. 38° 10′, W. 123° 05 †	30.12	765.0	56	13.3	87	nw.			4		8		nw.	0	0	high	nw.	cloudy.
S. S. G. W. Elder, Seattle, Wash. Ter †	30.03	762.7	45	7.2	84	calm			0		fg.							foggy.
S. S. Queen of the Pacific, San Francisco, Cal †	30.06	763.5				sw.			2		5			0	0			fair.
S. S. State of California, Portland, Oregon †	30.02	762.5	45	7.2	84	calm			0		10							cloudy.
S. S. City of Pekin, Hong Kong, China †	30.02	762.5	80	26.7	74	se.			1		10		se.	0	0			overcast.
S. E. B. Sutton, N. 6° 40′, W. 111° 20′†	29.91	759.7	82	27.8	91	ne.			2		5		ne.	1 h'r	1 h'r	sm'h	nne.	fair.
S. S. Colima, N. 7° 08′, W. 81° 27′ †	29.88	758.9	81	27.2	87	w.			2		10		ssw.	0	0	mod.		cloudy.
S. S. Granada, N. 31° 00′, W. 120° 15′†	30.13	765.3	55	12.8	68	nw.			3		3		n.	0	0	mod.	nw.	clear.
S. Armenia, N. 7° 00′, W. 115° 20′*	29.77	756.1	83	28.3	87	nne.			3		5		nne.	0	0	mod.	var.	fair.
S. S. Benledi, N. 7° 30′, E. 107° —′*	29.72	754.9	86	30.0	72	sw.			1–2		0			0	0	sm'h		clear.
S. Grecian, S. 1° 50′, E. 128° 22′†	29.89	759.2	83	28.3	87	e.			2		3		e.	0	0	sm'h		clear.
S. Titan, N. 7° 04′, W. 113° 00′ *†	29.95	760.7	81	27.2	?	ne.			2		1		ne.	2 h'r	2 h'r	sm'h	se.	clear.
Xenia, N. 9° 09′ E. 108° 24′			91	32.8		ssw.			2		0			0	0	sm'h		clear.
U. S. S. Ranger, La Libertad, San Salvador	29.94	760.5	82	27.8	83	calm			0		8		calm	0	0	long	s.	threatening.
District No. 4—South Pacific.																		
H. M. S. Diamond, S. 31° 47′ E. 167° 40′			68	20.0	79	e.			3		4	s.				3	se.	d. clouds.
H. M. S. Espiegle, S. 29° 22′, E. 167° 13′	29.93	760.2	67	19.4	82	e			6		10					5	e.	overcast.
H. M. S. Kingfisher, S. 19° 40′, W. 159° 00′	29.97	761.2	74	23.3		ese.			3		3					3	se.	d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.94	760.5	56	13.3		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.68	753.9	71	21.7	95	var.			1		4							d. clouds.
U. S. S. Hartford, Tahiti, Society Ids., Oceania*	29.82	757.4	76	24.4	86	calm			0		5			0	0	sm'h		fair.
U. S. S. Iroquois, Valparaiso, Chili	30.06	763.5	60	15.6	94	calm			0		8					sm'h		cloudy.
U. S. S. Lackawanna, S. 28° 28′, W. 139° 16′*	29.93	760.2	68	20.0	74	se.			3		5		e.			sm'h	e.	fair.
U. S. S. Onward, Callao, Peru*	30.06	763.5	66	18.9	84	s.			1		10							cloudy.
U. S. S. Pensacola, Callao, Peru*	29.90	759.4	67	19.4	84	sse.	3	1.3	3		10			0	0			cloudy.
U. S. S. Wachusetts, S. 6° 37′ W. 164° 22′	29.85	758.2	82	27.8	87	e.			3		2		e.			sm'h		clear.
S. May Hulse, S. 46° 28′ W. 80° 42′	29.46	748.3	52.7	11.5	69	ene.			5		10							drizzling.
S. S. City of New York, S. 3° 24′, W. 166° 35′†	29.89	759.2	80	26.7	82	ne.			2		10		ne.	1 h'r	1 h'r	sm'h		squally.
S. S. City of Sydney, S. 34° 08′, E 163° 20′ *†	30.08	764.0	67	19.4	79	s.			2		7 kn		s.	0	0	small	ssw.	cloudy.
S. S. Zealandia, Sydney, N. S. W.	30.19	766.8	68	20.0	90	w.			2		fg							foggy.
S. David Crocket, S. 54° 23′, W. 78° 12′*	29.65	753.1	49	9.4	96	n.			1		10			5 h'r	5 h'r	long	s.	rain & fog.
H. M. S. Lark, S. 14° 45′, E. 160° 42′	29.91	759.7	80.3	26.8	96	se.			2		6					3	e.	d. clouds
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 17° 01′, E. 55° 59′	29.78	756.4	86	30.0		sw.			3		5	sw.				1	s.	d. clouds.
H. M. S. Euryalus, N. 12° 50′, E. 74° 40′	29.65	753.1	85	29.4	83	nw.			3		0							blue sky
H. M. S. London, Zanzibar, Zanzibar	29.89	759 2	81	27.2	87	s.			2		6	sse.				4	sse.	d. clouds.
S. S. Tourmaline, Ras Mandrake, Arabia	29.86	758.4				s.			3		0					1	s.	blue sky.
H. M. S. Woodlark, Jask, Persia	29.76	755.9	82	27.8	87	wsw.			2		0							misty.
U. S. S. Juniata, Bushire, Persia	29.79	756.7	84	28.9	100	w.			2		1			0	0	sm'h		clear.
Bk. Alpheus Marshall, S. 28° 44′, E. 43° 52′ *†	30.18	766.6				ene.			6		2		ese.	2 h'r	2 h'r			clear.
S. Annie M. Law, S. 14° 37′, E. 94° 08′ *†	29.86	758.4	81	27.2		sse.			2		1		se.	7 h'r	7 h'r	cf'd	sse.	clear.
S. S. Burswell, N. 17° 15′, E. 66° 36′*†	29.91	759.7	87	30.6		wnw.			2		0			0	0	sli't	wnw.	clear.
Bk. Bore, S. 8° 42′, E. 116° 37′ *†	30.23	767.8	86	30.0		w.			1							long	ssw.	hazy.
Bk. Ceylon, S. 22° 41′, E. 63° 34′*	30.20	767.1	80	26.7	78	ese.			6		4		se.	sli't	sli't	rg'h	ese.	fair.
S. Dynomene, S. 31° 20′, E. 40° 10′	30.28	769.1	72	22.2	76	ene.			4		6			sli't	sli't	mod	ssw.	misty.
S. S. Malabar, N. 18° 04′, E. 39° 36′						sse.			3		0			0	0	sm'h		clear.
Bk. Pilgrim, S. 8° 37′, E. 105° 07′*†	29.90	759.4				ne.			1		2			0	0	mod.	se.	clear.
S. S. Radnorshire, N. 16° 27′, E. 40° 58′ *†	29.76	755.9				sw.			2		0			0	0	sm'h		clear.
S. St. David, S. 41° 21′, E. 69° 50′ *†	30.30	769.6	60	15.6	88	wsw.			4		8		wsw.	4 h'r	4 h'r	light	wsw.	drizzling.
Bk. Chas. Stewart, S. 44° 30′, E. 130° 00′†	29.33	745.0	52	11.1		wsw.			9		10		s.			high	sw.	cloudy.
S. S. Foscolia, N. 7° 21′, E. 82° 35′ †	29.73	755.1				var.			4		10		var.	1 h'r	1 h'r	long	ssw.	thund'r st'm

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 4, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.76	755.8	63.0	17.2	86	e.			2		0			0	0	clear	Malaterre.
Algiers			29.73	755.2	63.3	17.4	61	w.			7		4			0.811	20.6	cloudy	Thève.
La Galle			29.65	753.0	64.0	17.8	72	nw.			4		4			0	0	cloudy	Fonfrède.
Tunis			29.67	753.7															Jacques.
Saida			29.82	757.4															Pérès.
Tebessa			29.71	754.6	72.7	22.6	25	wsw.			6		3			0.039	1.0	pretty fair	St. Martin.
Geriville					57.7	14.3	19	wnw.			7		2			0	0	fair	Forfert.
Laghouat			29.72	755.0	73.8	23.2	21	w.			8		0			0	0	clear	Abraham.
Biskra			29.66	753.3	76.3	24.6	30	nw.			5		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.87	758.7	57.5	14.2	92	n.	7	3.1			10 n			0.337	8.5	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.86	758.4	29.95	760.7	57.2	14.0	65	ne.	7	3.1			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.13	739.9	29.66	753.3	67.6	19.8	35	ne.			2		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.00	736.5	29.76	755.8	54.0	12.2	74	wsw.	4.3	1.9			10			0.020	0.5		Dr. Wierzbiski
Eperies	28.87	733.4	29.72	755.0	64.0	17.8	52	s.			2		10 s			0.031	0.8		Julius Mikolik.
Gratz	28.45	722.5	29.67	753.6	60.1	15.6	59	sw.			2		3			0.028	0.7		Andreas Rospini.
Hermannstadt	28.33	719.6	29.72	754.8	63.5	17.5	46	nw.			3		10			0.142	3.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.33	719.6	29.64	752.9	58.6	14.8	69	ne.			1	4 ck				0.071	1.8	fair	The Staff.
Lemberg	28.80	731.4	29.76	755.8	61.3	16.3	58	sw.			2		6			inap.	inap.		Dr. T. Stanecki.
Neu Schmecks	26.43	671.3	29.81	757.2	43.9	6.6	88	calm			0		9			0.130	3.3		Dr. V. von Szontagh.
Pola	29.49	749.0	29.57	751.1	64.9	18.3	63	ese.			3		5			0	0		I. R. Hydrographic Office.
Szathmar	29.27	743.4	29.72	755.0	64.4	18.0		s.			3		9			0.004	0.1		Joseph Midlinszky, S. J.
Szegedin	29.41	747.0	29.69	754.0	61.9	16.6	69	s.			1		10			0.035	0.9		Karl Stancel.
Trieste	29.59	751.5	29.69	754.0	63.0	17.5	74	sw.			1		2			0	0		Royal Academy.
Vienna	28.97	735.8	29.67	753.5	63.3	17.4	44	ese.			1		2			0.150	3.8		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.94	760.5	30.04	763.0	42.1	5.6	68	nne.	15	6.7			9			0.155	4.0	overcast	W. Boswell.
Armagh, Observatory	29.80	756.9	30.03	762.7	48.0	8.9	51	nne.	12	5.4			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.93	760.2	44.0	6.7	32	n.	15	6.7			7					d. clouds	John Hartnup.
Bolton, Sharples	29.36	745.7	29.90	759.4	42.1	5.6	64	e.	6	2.7			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.50	749.3	29.90	759.4	43.9	6.6	57	ne.			3		5			0.03	0.8	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	85.0	29.4	68	ne.			2		2					d. clouds	Corpl. W. I. Cull, A.H.C.
Cardington	29.76	755.9	29.86	758.4	46.4	8.0	58	n.			0.4		8					hailing	John McLaren.
Chatham, School M. E.	29.70	754.4	29.83	757.7	45.3	7.4	61	ne.			1		7			blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.65	753.1	29.88	758.9	45.2	7.3	50	ene.			2		7					d. clouds	The Staff.
Fort Napier, Natal	27.67	702.8	29.89	759.2	79.0	26.1	37	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	82.0	27.8	83	n.			2		3					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.96	761.0	30.00	762.0	47	8.3	62	ne.			1		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.75	755.6	29.81	757.2	61.0	16.1	95	sw.			6		8					gloomy	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.82	757.4	30.03	762.7	46.4	8.0	51	n.			4		10			blank	blank	overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.67	753.6	29.84	757.9	49.5	9.7	51	nne.			2		7					d. clouds	The Staff.
Guernsey	29.51	749.5	29.81	757.2	46.0	7.8	80	ne.			2		7			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.82	757.4	29.86	758.4	42.6	5.9	67	n.	11	4.9			9					d. clouds	The Staff.
Leicester, Museum	29.62	752.3	29.88	758.9	39.0	3.9	84	ne.			2		10					overcast	J. O. Smith.
Malta, Mediterranean	29.54	750.3	29.62	752.3	64.0	17.8	97	e.					2					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.98	761.5	30.02	762.5	77.0	25.0	61	nw.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.36	745.7	29.89	759.2	41.6	5.3	60	nne.			2		10					overcast	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.64	752.8	29.86	758.4	45.7	7.6	58	n.			3		6					d. clouds	The Staff.
Plymouth	29.78	756.4	29.85	758.2	46.0	7.8	51	ene.			3		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.96	761.0	30.06	763.5	44	6.7	84						10					drizzling	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.74	755.4	29.80	756.9	80.6	27.0	33	se.			2		0					blue sky	W. H. Lyne.
Sheffield	29.65	753.1	29.92	760.0	45.0	7.2	65	ne.			3		10			0.11	2.8	threatening	W. F. Cooper.
Silloth Rectory	29.95	760.7	29.98	761.5	42.4	5.8	71	ne.			3		8			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.96	761.0	43.0	6.1	59	ene.	12	5.4			9					d. clouds	W. C. Carlisle.
Truro, Royal Institution	29.83	757.7	29.90	759.4	51	10.6	65	ne.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.00	762.0	30.02	762.5	48.4	9.1	54	ne.	20	8.9			9					d. clouds	The Met'g'l Office.
Sub-series.																			
Goze, Episcopal Seminary	29.15	740.4	29.54	750.3	68.7	20.4	66	se.	12.4	5.5			10 cn		w.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.09	764.3	30.13	765.3	41	5.0	93	se.	2	0.9			10 n			0.566	14.4	cloudy	H. J. Cundall, C. E
Chatham, N. B*	30.12	765.0	30.19	766.8	44	6.7	60	n.	8	3.6		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.00	762.0	30.19	766.8	40.2	4.6	76	e.			2	9 cs	0			0.416	10.6	bluesky	Jas. Smith, M. A.
Dalhousie, N. B	30.18	766.6	30.23	767.8	41.0	5.0		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.28	769.1	30.30	769.6	35	1.7	75	ne.	12	5.4		0	2 s			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	30.26	768.6	30.11	764.8	38	3.3	82	w.	8	3.6			10 ks		w.	0	0	cloudy	James Stewart.
Fredericton, N. B	30.13	765.3	30.20	767.1	44.0	6.7	73	nw.	3	1.3			10 s			0.070	1.8	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.94	735.1	30.07	763.8	39.0	3.9	100	e.	2	0.9			10 n			0.25	6.3	raining	Jas. Grant.
Halifax, N. S*	29.97	761.2	30.10	764.5	44	6.7	93	n.	6	2.7			10 k			0.058	1.5	cloudy	A. Allison.
Hamilton, Ontario	29.72	754.9	30.13	765.3	37.7	3.2	92	e.			3	10 cs	0	e.		inap.	inap.	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.84	757.9	30.19	766.8	42	5.6	73	ne.	11	4.9		0	5 k		nw.	0.27	6.9	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.04	763.0	30.08	764.0	36.0	2.2	90	se.			2		10 n			1.220	31.0	raining	C. H. Rigby.
Montreal, Quebec*	30.02	762.5	30.23	767.8	39	3.9	70	n.	12	5.4			10 ks		e.	0.39	9.9	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.97	761.2	30.22	767.6	38.7	3.7	75	ne.			3	8 cs	0			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.50	749.3	30.22	767.6	37	2.8	82	e.	11	4.9		8 k	2 s			0.13	3.3	fair	Rev. R. Mosley.
Peterboro, Ontario	29.52	749.8	30.27	768.8	38.7	3.7	81	e.			1		9 n			0.200	5.1	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.41	747.0	30.12	765.0	38	3.3	100	ne.	14	6.3			5 n			0.11	2.8	threatening	H Morgan.
Port Stanley, Ontario	29.41	747.0	30.07	763.8	41	5.0	92	e.	10	4.5			10 n			0.34	8.6	cloudy	M. Payne.
Quebec, Quebec*	29.89	729.2	30.26	768.6	37	2.8	69	n.	20	8.9		0	0			0.31	7.9	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	29.78	756.4	30.25	768.3	35	1.7	89	se.	3	1.3		8 cs	0	w.		inap.	inap.	fair	W. H. McIntyre.
St. Andrews, N. B	30.08	764.0	30.13	765.3	41	5.0	91	ne.	3	1.3			10 n			0.10	2.5	cloudy	
St. John, N. B	29.97	761.2	30.14	765.5	44.0	6.7	92	ne.	7	3.1			10 ks			0.020	0.5	overcast	G. Murdock, C. E.
Saint John's, N. F	29.94	760.5	30.20	767.1	37	2.8	90	s.			2		10 n					raining	J. Higgins.
St. Pierre, N. F			30.39	771.9	35.6	2.0		ne.			7					0.16	4.1		The Commandant
Sangeen, Ontario*	29.42	747.3	30.15	765.8	39	3.9	89	e.	6	2.7			10 s			0.16	4.1	cloudy	
Stratford, Ontario	28.80	731.5	30.12	765.0	38.4	3.6	86	e.	13	5.8			10 s			0.433	11.0	d. clouds	C. J. Macgregor, M A
Sydney, C. B*	30.05	763.3	30.12	765.0	36	2.2	96	ne.	1	0.4			10 n			1.13	28.7	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.78	756.4	30.18	766.6	40	4.4	82	e.	14	6.3			10 ks		w.	0.24	6.1	cloudy	Magnetic Observatory.
Windsor, N. S	30.02	762.5	30.11	764.8	43.0	6.1	92	n.	8	3.6			10 n			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.04	737.6	30.14	765.5	37.4	3.0	92	ne.	20	8.9			10 s			0.08	2.0	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.98	761.5	30.05	763.3	50	10.0	96	e.	5	2.2			10 s			0	0	cloudy	Lt. F. F. Vinnet, R. N.
London, Ontario	29.18	741.4	30.07	763.8	39.5	4.2	93	se.			2		10 n			0.25	6.3	overcast	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.90	759.4	29.93	760.2	66.0	18.9	88	e.	6.5	2.9			5 k			0	0	hazy	John Duthie.
Springbok Fontein																			J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.20	640.0																	A. Guelny.
Tchang-kin-tchouang	29.89	759.3	30.00	762.1	52.0	11.1	41	ne.			2		5			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	30.08	764.0	30.10	764.6	56.5	13.6	62	nnw.	3.8	1.7			3			0	0	fair	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.85	758.3	29.90	759.5	49.1	9.5	65	sse.	13	6			3						Oversergent Fischer.
Fanoe	29.89	759.1	29.91	759.6	46.2	7.9	58	ene.			2		5						Overloerer Lauridsen.
Godthaab, Greenland	30.18	766.5	30.22	767.6	31.3	− 0.4	78	s.			2		1						S. Kleinschmidt.
Jacobshavn, Greenland	30.13	765.2	30.17	766.4	27.0	− 2.8		calm			0		10					snowing	
Stykkisholm, Iceland	30.03	762.8	30.08	763.9	45.7	7.6	85	s.			2		8						A. O. Thorlacius.
Thorshavn	30.09	764.2	30.11	764.8	48.2	9.0	71	calm	0	0			10						Overloerer Bergh.
Upernavik, Greenland																			
Vestervig	29.85	758.3	29.95	760.6	45.7	7.7	53	ne.			4		4						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	28.96	735.6	29.60	751.7	57.9	14.4	84	ese.			1		n		w.	0.661	16.8		M. Labroue, Director.
Alençon, Normal School	29.23	742.4	29.78	756.4	51.4	10.8	95	sw.			1		2			0	0	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School	29.47	748.5	29.73	755.2	43.0	6.1	95	nw.			3		k		n.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.55	750.5	29.63	752.5	64.0	17.8	53	sw.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.14	740.1	29.69	754.0	56.5	13.6	39	ne.			1	0	5 kn		sw.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.50	749.2	29.76	755.9	51.3	10.7	37	ne.			2		10		ne.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.71	729.2	29.59	751.5	61.9	16.6	57	sse.			1		kn		nw.	0.055	1.4		M. Gobin, Director.
Bordeaux, Observatory	29.29	743.9	29.54	750.3	62.4	16.9	61	nne.			1		5		e.	0.004	0.1	cloudy	M. Rayet, Director.
Bourges, Normal School	29.06	738.1	29.58	751.4	58.1	14.5	57	nne.			3		k		nne.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.56	750.9	29.81	757.1	50.4	10.2	72	ne.			3		7		ne.	0	0		M. de Kermarès, Dir.
Caen, Normal School	29.69	754.1	29.77	756.0	53.2	11.8	61	ne			2		10		ne.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.38	746.2	29.69	754.2	55.6	13.1	63	wnw.			1		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.20	741.7	29.71	754.7	54.0	12.2	54	ne.			3		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.25	717.5	29.57	751.0	59.7	15.4	58	n.			2		8 ck	0		0.024	0.6	¾ covered	M. Alluard, Director.
Cluny, Normal School	28.78	730.9	29.62	752.3	61.9	16.6	55	sw.			1		1			0.177	4.5		M. de Villemontée, Dir.
Commercy, Normal School	28.85	732.7	29.78	756.4	53.2	11.8	41	nw.			1		2 k		nw.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.09	688.2	29.56	750.7	59.9	15.5	30	ne.			2	0	7 n			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.50	724.0	29.61	752.1	58.8	14.9	52	s.			1		9		s.	0	0		M. Kina, Director.
Grenoble, Normal School	28.77	730.8	29.52	749.8	66.2	19	39	ese.			1	ck	8			0	0		M. Ablard, Director.
Guéret, Normal School	28.04	712.3	29.61	752.1	53.8	12.1	76	ne.			1		kn		ne.	0	0		M. Delorme, Dir.
Lamballe, Normal School	29.58	751.4	29.85	758.3	54.0	12.2	52	ne.			2		5		ne.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	28.92	734.5	29.47	748.6	59.0	15.0	80	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.62	752.4	29.72	755.0	54.3	12.4	36	nne.			2		8	e.	e.	0	0	¾ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.56	725.5	29.59	751.6	62.2	16.8	49	e.			1	0	0			0.039	1.0	clear	M. André, Director.
Mans, Normal School	29.41	746.9	29.71	754.7	54.0	12.2	89	e.			3		5		ne.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.35	745.6	29.62	752.3	59.9	15.5	70	sw.			1		10		ene.	0	0		M. Stephan, Director.
Montlouis	24.39	619.5	29.23	742.5	44.2	6.8	36	sw.	5.6	2.5			7			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.47	748.6	29.60	751.7	59.4	15.2	83	se.			3		2		se.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.94	735.1	29.71	754.6	56.5	13.6	52	nne.			1	ck	0			0	0		M. Hasse, Director.
Nantes, Observatory	29.54	750.3	29.70	754.4	56.5	13.6	39	ene.			1.2		8 k	w.	ene.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.48	748.7	29.59	751.5	59.5	15.3	56	ne.	7.4	3.3			10			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.77	527.5			31.6	− 0.2		calm			0		5		s.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.53	724.7	29.58	751.2	54.5	12.5	79	s.			1		2 s	s.	s.	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.77	629.2			39.6	4.2	90	e.			2		5			0.004	0.1	½ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.58	751.4	29.61	752.2	58.3	14.6	60	ne.			2		10		ne.	0	0	¾ covered	Lt. E. Decante, Director
Roche-sur-Yon, N. School	29.44	747.7	29.65	753.1	55.2	12.9	55	e.			3		5		e.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.50	698.5	29.61	752.0	57.0	13.9	57	se.			4		1 kn			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.72	754.8	29.76	756.0	53.6	12	45	ne.			1		8		ne.	0	0	very cloudy	M. Mouillot, Dir.
Saint Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.56	750.9	29.72	755.0	54.5	12.5	38	ene.			1		5		nne.	0	0		M. Renou, Director.
Toulouse, Observatory	28.86	733.0	29.57	751.1	62.2	16.8	63	sse.			3		8	s.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.49	749.0	29.65	753.1	58.6	14.8	63	n.			3		2	ne.	ne.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.23	742.5	29.72	755.0	54.0	12.2	40	ne.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.40	746.8	29.55	750.6	58.5	14.7	67	n.	7.8	3.5			10 k		n.	0.091	2.3	covered	M. Cartier, Director.
GERMAN.																			
Ansbach	28.27	718.0	29.68	753.9	61.2	16.2	40	sw.			2		4	sw.		0.004	0.1		Prof. Jnedt.
Bamberg	28.87	733.3	29.71	754.5	66.4	19.1	52	s.			1	0	5 k		sw.	0.110	2.8		Prof. Dr. Hoh.
Berlin	29.67	753.6	29.82	757.3	54.9	12.7	39	ne.			2		10			0	0		Meteorological Institute.
Breslau	29.23	742.4	29.75	755.7	59.2	15.1	57	ene.			2		10			0.031	0.8		Royal University Obs'y.
Carlsruhe	29.25	742.9	29.69	754.2	58.3	14.6	57	se.			1		9	nw.		0	0		Albert Senz.
Cassel	29.02	737.2	29.74	755.3	56.8	13.8	70	se.			1		8	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.71	754.6	59.4	15.2	52	se.			1		6			0.004	0.1		Physical Society.
Friedrichshafen	28.26	717.8	29.65	753.0	58.3	14.6	56	sw.			1		3	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.77	756.2	29.86	758.5	49.6	9.8	45	ene.			3		8			0	0		E. Preller.
Kiel	29.85	758.2	29.87	758.6	47.8	8.8	57	ene.			2		7			0.035	0.9		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.35	745.5	29.77	756.1	54.3	12.4	55	ne.			3		10	e.		0.031	0.8		H. Leppig, Asst.
Magdeburg	29.62	752.3	29.81	757.1	50.9	10.5	52	ne.			2		9	sw.		0	0		Dr. Assmann.
Memel	29.89	759.2	29.94	760.4	50.0	10.0	62	n.			4		3 cs	0					Issermann.
Munich	27.89	708.4	29.73	755.1	55.9	13.3	69	n.			1		4	se.		0.185	4.7		Central Station.
Neufahrwasser	29.93	760.3	29.95	760.7	42.8	6.0	76	ne.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.18	741.2	29.70	754.4	59.5	15.3	48	ne.			1		7			0	0		Dickhether.
Stuttgart	28.75	730.3	29.64	752.9	50.9	10.5	92	ne.			1		10			0.142	3.6		Prof. Dr. Schoder.
Wustrow	29.90	759.4	29.92	760.0	47.7	8.7	84	n.			3	0	3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.45	747.9	29.82	757.4	72.7	22.6		s.			1.5	0	0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.67	753.7	29.72	755.0	84.5	29.2	66	sw.	24.0	10.7			0			0	0	blue sky	
Deesa	29.18	741.3	29.63	752.7	103.2	39.6	15	w.	13.0	5.8			0			0	0	blue sky	
Bombay	29.66	753.3	29.69	754.2	86.7	30.4	63	nw.	26.0	11.6			0			0	0	blue sky	
Poona, Yarrowda	27.84	707.1	29.62	752.4	97.4	36.3	27	nnw.	22.0	9.8			7			0	0	d. clouds	
Trichinopoly	29.40	746.7	29.66	753.5	100.9	38.3	26	ssw	1.0	0.4			4	nne.	nne.	0	0	d. clouds	
Belgaum	27.18	690.5	29.67	753.6	83.1	28.4	61	ne.	11.0	4.9			4	s.	n.	0	0	d. clouds	
Lahore	28.81	731.7	29.52	749.7	100.7	38.2	16	w.	2.0	0.9			0			0	0	hazy	
Roorkee	28.65	727.8	29.51	749.6	98.9	37.2	15	w.	3.0	1.3			0			0	0		
Agra	28.96	735.6	29.50	749.2	104.1	40.1	12	w.	4.0	1.8			0			0	0	blue sky	
Nagpur	28.56	725.4	29.55	750.5	104.4	40.2	17	wnw.	10.0	4.5			4		w.	0	0	d. clouds	
Jubbulpore	28.27	718.1	29.56	750.9	102.7	39.3	11	nw.	6.0	2.7			3		nw.	0	0	d. clouds	
Lucknow	29.20	741.6	29.56	750.8	99.4	37.4	35	w.	10.0	4.5			0			0	0	hazy	
Allahabad	29.24	742.6	29.53	750.1	102.0	38.9	21	calm	0	0			0			0	0	blue sky	
Patna	29.36	745.8	29.54	750.3	97.3	36.3	32	n.	7.5	3.4			0			0	0	blue sky	
Hazaribagh	27.60	701.1	29.54	750.2	94.5	34.7	17	nnw.	6.4	2.9			0			0	0	blue sky	
Cuttack	29.49	749.1	29.57	751.1	93.1	33.9	50	w.	5.0	2.2			0			0.01	0.3	blue sky	
Calcutta, Alipore	29.58	751.4	29.60	752.0	86.3	30.2	74	sw.	8.0	3.6			0			0.09	2.3	blue sky	
Dhubri	29.51	749.6	29.63	752.6	76.0	24.4	85	ese.	7.0	3.1			9			0.59	15.0	gloomy	
Chittagong	29.64	753.0	29.73	755.2	81.7	27.6	60	s.	7.2	3.2			6			0	0	blue sky	
Sibsagar	29.33	745.0	29.67	753.6	75.1	23.9	85	sw.	2.0	0.9			10	w.	w.	0.25	6.4	overcast	
Jeypore	28.19	716.0	29.57	751.1	99.7	37.6	21	nw.	17.2	7.7			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.16	715.3	.....	.....	92.5	33.6	34	nw.	2	0.9	.....	10 ck	s	.....	.....	0	0	gloomy	
Zanzibar	.....	.....	29.86	758.4	78.2	25.7	84	wsw.	12.2	5.5	.....	.....	10	s.	e.	0.09	2.3	drizzling	
ITALIAN.																			
Udine	29.30	744.1	29.70	754.3	63.7	17.6	44	s.	1.3	0.6	.....	.....	2	.....	.....	0.020	0.5	.....	Prof. Giovanni Clodig.
Milan	29.19	741.5	29.71	754.5	61.3	16.5	58	ne.	3.8	1.7	.....	.....	7	ssw.	.....	0.197	5.0	.....	Prof. G.V.Schiapparelli.
Padua	29.58	751.2	29.68	753.9	62.1	16.7	46	e.	9.8	4.4	.....	.....	4	sw.	.....	0.437	11.1	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.80	731.5	29.69	754.2	55.8	13.2	82	n.	3.8	1.7	.....	.....	9	nne.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.44	747.8	29.63	752.7	60.8	16.0	56	n.	8.7	3.9	.....	.....	10	n.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	27.81	706.3	29.70	754.3	51.3	10.7	71	w.	.....	.....	4	.....	9	.....	.....	0.067	1.7	.....	Prof. D. C. Bruno.
Pesaro	29.60	751.7	29.64	752.9	56.5	13.6	89	e.	7.4	3.3	.....	.....	8	e.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.34	745.3	29.60	751.7	66.9	19.4	36	ne.	.....	.....	5	.....	8	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.45	748.0	29.53	750.1	66.9	19.4	36	ne.	2.5	1.1	.....	.....	5	sw.	.....	0	0	.....	Prof. P. Monte.
Rome	29.36	745.8	29.53	750.1	72.2	22.2	34	sw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.35	745.5	29.60	751.8	68.0	20.0	69	ssw.	19.9	8.9	.....	.....	8	s.	.....	0.028	0.7	.....	Prof. C. de Giorgi.
Cosenza	28.74	729.9	29.61	752.1	67.7	19.8	76	sw.	1.8	0.8	.....	.....	2	wsw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.23	742.5	29.43	747.4	68.0	20.0	39	calm	.....	.....	0	.....	7	.....	.....	0.039	1.0	.....	Prof. A. Pacinotti.
Palermo	29.26	743.1	29.50	749.3	64.2	17.9	70	ne.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.50	749.2	29.54	750.3	64.6	18.1	78	se.	4.9	2.2	.....	.....	10	s.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	28.99	736.4	29.49	749.1	72.1	22.3	56	e.	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	21.88	555.8	.....	.....	30.7	− 0.7	75	sw.	.....	.....	2	.....	4	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	21.87	555.6	.....	.....	34.9	1.6	79	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.74	755.3	29.77	756.2	53.3	11.8	66	se.	.....	.....	4	0	9 ck	.....	sw.	0.642	16.3	cloudy	H. Hattori.
Awomori	29.78	756.4	29.82	757.4	46.2	7.9	75	ene.	10.1	4.5	.....	.....	10ks;s	.....	.....	0.328	8.3	overcast	K. Ogawa.
Hamamatsu	29.82	757.4	29.85	758.1	56.5	13.6	90	e.	.....	.....	2	.....	10 s	.....	.....	0.488	12.4	covered	
Kagoshima	29.95	760.6	29.96	760.9	56.0	13.3	65	n.	.....	.....	2	0	0	.....	.....	0.008	0.2	clear	G. Miyanohaza.
Kioto	29.64	752.8	29.81	757.2	57.4	14.1	65	n.	2.1	0.9	.....	.....	10 n	.....	.....	0.957	24.3	light rain	M. Tojima.
Miasaka	29.80	758.4	29.89	759.1	68.5	20.3	97	w.	.....	.....	2	1 cs	0	W.	.....	0.008	0.2	clear	K. Masusaki.
Miyako	29.87	758.7	29.98	761.5	41.0	5.0	99	wsw.	1.9	0.8	.....	.....	10 n	.....	.....	0.492	12.5	raining	N. Honno.
Nagasaki, I. M. Obs'y	29.78	756.4	29.99	761.7	54.0	12.2	66	n.	2.1	0.9	.....	0	3 s	.....	.....	0	0	clear	S. Takehayashi.
Niigata	29.71	754.6	29.74	755.4	56.9	13.8	74	se.	25.1	11.2	.....	.....	10ck;s	.....	w.	0.350	8.9	covered	M. Morita.
Nobiru	29.87	758.8	29.89	759.2	47.6	8.7	96	e.	14.3	6.4	.....	.....	10 ks	.....	e.	0.295	7.5	covered	H. Midzushina.
Numazu	29.83	757.8	29.87	758.7	56.5	13.6	81	ese.	.....	.....	4	.....	10ks;n	.....	.....	0.150	3.8	raining	R. Kaneda.
Osaka	29.78	756.5	29.80	756.9	58.7	14.8	96	e.	4.8	2.1	.....	.....	10 n	.....	.....	0.980	24.9	light rain	H. Omura.
Tokei Obs'y, Yeddo	29.80	756.9	29.87	758.8	54.2	12.3	97	nne.	5.4	2.4	.....	.....	10 s	.....	.....	0.289	7.3	cloudy	The Staff.
Wakayama	29.76	755.8	29.81	757.1	59.2	15.1	96	nw.	2.4	1.1	.....	.....	10 n	.....	.....	0.462	11.7	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.85	758.2	30.04	763.0	76.8	24.9	72	e.	20.0	8.9	.....	2 cs	8 ks;k	.....	ese.	0	0	cloudy	The Staff.
MEXICAN.																			
Guanajuato	23.68	601.4	29.90	759.4	65.3	18.5	58	calm	0	0	.....	4 ck	0	W.	.....	inap.	inap.	fair	Prof. Vicente Fernandez.
Leon	24.32	617.7	29.96	761.0	59.9	15.5	76	calm	0	0	.....	2 c	8 ck	.....	sw.	0.008	0.2	foggy	Prof. M. Leal.
Mazatlan	29.64	753.0	29.90	759.5	70.0	21.1	87	nw.	0.9	0.4	.....	3 cs	0	W.	.....	0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.82	757.3	29.82	757.3	50.4	10.2	.....	n.	.....	.....	1	.....	.....	.....	.....	0.110	2.8	.....	
Groningen	29.77	756.2	29.83	757.6	46.2	7.9	.....	e.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	29.83	757.6	29.83	757.6	44.2	6.8	.....	ene.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.81	757.1	29.81	757.1	49.3	9.6	54	nw.	.....	.....	1	.....	.....	.....	.....	0.008	0.2	.....	
Utrecht	29.78	756.3	29.82	757.5	46.4	8.0	68	nw.	.....	.....	1	.....	8	.....	.....	0.012	0.3	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.81	757.2	.....	.....	81.1	27.3	81	nne.	0.5	0.2	.....	.....	6	.....	.....	0.547	13.9	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.89	759.1	29.95	760.7	45.0	7.2	47	wnw.	9	4	.....	.....	7	.....	.....	0	0	.....	
Brono	29.80	756.9	29.84	757.9	39.7	4.3	66	n.	.....	.....	2	.....	9	.....	.....	0.122	3.1	.....	
Christiania	29.78	756.3	29.93	760.1	46.4	8.0	25	ne.	4	2	.....	.....	5	.....	.....	0	0	.....	
Gjesvær	29.61	752.1	29.63	752.7	36.5	2.5	.....	nne.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	
Lodingen	29.69	754.2	29.74	755.4	38.3	3.5	64	sw.	.....	.....	2	.....	8	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.79	756.7	29.95	760.7	58.5	14.7	76	nw.	11.9	5.3	.....	.....	8	.....	.....	0.134	3.4	.....	Dr. J. A. Sampaio.
Campo Major	28.62	727.0	29.61	752.2	58.1	14.5	78	sw.	10.5	4.7	.....	.....	9	.....	.....	0.315	8.0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.99	761.7	30.08	763.9	67.5	19.7	57	w.	8.7	3.9	.....	.....	4	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.37	746.1	29.71	754.6	57.7	14.3	64	nw.	23.0	10.3	.....	.....	5	.....	.....	0.079	2.0	.....	The Staff.
Ponta Delgada, Azores	29.87	758.6	29.94	760.4	57.2	14.0	91	ese.	11.9	5.3	.....	.....	10	.....	.....	0.370	9.4	raining	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Serra da Estrella	24.81	630.1	29.58	751.2	36.5	2.5	100	wnw.	23.0	10.3	.....	.....	10	.....	.....	0.945	24.0	foggy	
RUSSIAN.																			
Akmolinski	28.95	735.4	30.06	763.5	39.4	4.1	34	ne.	18	8	.....	.....	9 n	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.92	760.0	29.94	760.5	45.3	7.4	48	nw.	2	1	.....	0	8 ks	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	30.01	762.3	29.92	759.9	70.9	21.6	75	nnw.	9	4	.....	0	2 k	.....	.....	0	0	.....	
Astrakhan	30.07	763.7	29.98	761.6	62.1	16.7	70	calm	0	0	.....	.....	10 n	.....	.....	0.276	7.0	heavy cl'ds.	Capt. Wisganow.
Baku	29.98	761.5	29.93	760.3	63.5	17.5	77	s.	5	2	.....	0	1 ks	.....	.....	0	0	.....	
Barnaul	29.50	749.2	30.01	762.3	37.2	2.9	36	w.	18	8	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y
Bielosersk	29.54	750.3	30.02	762.4	43.2	6.2	100	nw.	.....	.....	.....	.....	fg.	.....	.....	blank	blank	foggy	
Dorpat	29.70	754.4	29.95	760.7	43.5	6.4	81	nw.	9	4	.....	.....	10 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.39	746.6	30.38	771.6	46.8	8.2	32	se.	9	4	.....	1 c	0	.....	.....	0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.45	748.0	29.88	759.0	70.7	21.5	41	nw.	5	2	.....	0	7 ks	.....	.....	0	0	.....	
Irkutsk	28.30	718.9	29.95	760.7	45.9	7.7	44	se.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Kasalinsk	.....	.....	.....	.....	73.8	23.2	41	nw.	9	4	.....	.....	10 k	.....	.....	.....	.....	.....	
Kasan	29.81	757.1	30.08	764.1	43.0	6.1	53	ese.	16	7	.....	.....	10 n	.....	.....	0.075	1.9	light rain	Observatory.
Kem	29.82	757.3	29.87	758.6	41.4	5.2	51	sw.	22	10	.....	.....	10 ks	.....	.....	0	0	heavy cl'ds.	
Kertch	29.95	760.6	29.97	761.2	64.0	17.8	58	sse.	9	4	.....	0	7 n	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	29.23	742.4	29.85	758.1	63.0	17.2	42	ne.	2	1	.....	0;cs	5 k;ks	.....	.....	0	0	heavy cl'ds.	Observatory.
Koslov	29.27	743.4	29.81	757.2	45.9	7.7	94	ene.	18	8	.....	.....	10 s	.....	.....	0	0	.....	
Libau	29.95	760.6	29.97	761.2	41.7	5.4	52	nw.	11	5	.....	.....	0	.....	.....	0	0	.....	E. Quass.
Lugan	29.57	751.1	29.75	755.7	63.0	17.2	55	wnw.	13	6	.....	.....	0	.....	.....	blank	blank	.....	Meteorological Obs'y.
Moscow	29.44	747.8	29.91	759.8	53.8	12.1	49	se.	7.8	3.5	.....	.....	10 n	.....	.....	0.020	0.5	light rain	Meteorological Obs'y
Nikolaiev	29.85	758.3	29.93	760.2	68.9	20.5	60	calm	0	0	.....	0	3 km	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.04	763.0	30.13	765.2	29.1	− 1.6	68	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.77	756.2	29.91	759.8	50.2	10.1	37	nw.	5.6	2.5	.....	2 cs	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.64	752.8	29.97	761.3	76.3	24.6	21	nne.	3.4	1.5	.....	.....	9 ks	.....	.....	0.035	0.9	.....	
Petrozavodsk	29.75	755.6	29.95	760.7	43.0	6.1	49	se.	27	12	.....	5 ck	0	.....	.....	0.020	0.5	.....	Dr. Bergmann.
Pinsk	29.30	745.7	29.84	758.0	63.0	17.2	44	ne.	11	5	.....	6 c	0	.....	.....	0	0	light clouds	
Poti	29.99	761.8	30.02	762.6	72.0	22.2	89	e.	5	2	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	29.87	758.6	29.89	759.2	51.8	11.0	43	s.	13	6	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.43	696.8	29.76	755.9	81.1	27.3	51	calm	0	0	.....	0	7 k	.....	.....	0.024	0.6	.....	
Semipalatinsk	29.38	746.3	30.04	763.1	49.8	9.9	33	w.	13	6	.....	.....	2	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.75	755.6	29.97	761.2	66.7	19.3	56	calm	0	0	.....	.....	9 s	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.48	748.7	29.93	760.3	63.5	17.5	33	n.	7	3		0	5 k			0	0		
Tashkend	28.17	715.4	29.72	754.9	84.2	29.0	36	calm	0	0			9 k			0	0	light clouds	Terch, A. M.
Tiflis	28.65	727.7	30.06	763.5	59.4	15.2	64	nw.	22	10			9 n			inap.	inap.		Physical Observatory.
Vernoe	27.23	691.7	29.57	751.1	80.4	26.9	29	nw.	2	1		0	7 ks			0	0		
Viatka	29.49	749.0	30.12	765.0	51.6	10.9	35	ese.	5	2			0			0	0		
Warsaw	29.38	746.2	29.80	756.8	59.5	15.3	61	ssw.	7	3			10 n			0.154	3.9	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.68	753.9	29.98	761.4	30.6	— 0.8	64	w.	7	3			10			inap.	inap.	snowing	M. O. Marks.
SCOTTISH.																			
Monach Lt			30.11	764.8	46	7.8	92	ne.			4	5	0	ne.		0	0		J. Youngclause.
North Unst			30.01	762.2				n.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.52	749.7	29.62	752.3	59.7	15.4	70	e.	4.0	1.8			9			0	0	almost cov'd	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.48	748.9	29.54	750.4	64.0	17.8	56	se.	1.3	0.6			10			0.189	4.8	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.59	675.4	29.57	751.0	45.5	7.5	81	s.	5.4	2.4			10			0.591	15.0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.33	694.2	29.54	750.3	53.4	11.9	71	sw.	20.1	9.0			10			0.472	12.0	covered	The Staff.
Murcia, Met. Obs'y	29.42	747.3	29.56	750.9	61.3	16.3	73	ene.	3.4	1.5		3	6	w.		0.071	1.8	almost cov'd	Olayo Diaz, Director.
Oviedo	28.74	730.0	29.61	752.1	50.9	10.5	90	n.	7.8	3.5		8 n	2 n	n.	ne.	1.457	37.0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.69	728.8	29.59	751.6	50.0	10.0	84	n.	9.4	4.2			10			0.256	6.5	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.97	761.3	30.04	762.9	72.8	22.7	83	se.	1.1	0.5		cs;ck	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.3	29.87	758.8	84.4	29.1	71	ese.	14.8	6.6		0	1 s			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.67	753.6	29.77	756.3	60.6	15.9	69	w.	17.8	8.0		0	8		w.	0.132	3.4		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.91	759.6	30.00	761.9	78.8	26.0	92	calm	0	0		2 s	2 k	e.	se.	0.020	0.5	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.72	754.8	29.76	755.8	36.3	2.4	85	sw.			4		10			0.421	10.7	snowing	
Umea	29.74	755.3	29.79	756.6	39.2	4.0	39	wsw.			2		10			0	0		
Hernosand	29.79	756.6	29.84	757.9	41.0	5.0	51	calm			0		10			0.004	0.1		
Stockholm	29.76	756.0	29.94	760.5	42.8	6.0	36	ssw.			2		10			0	0		
Wisby	29.87	758.6	29.93	760.1	39.6	4.2	58	nne.			4		0			0	0		
Sub-series.																			
Upsala	29.82	757.5	29.91	759.7	42.4	5.8	48	w.	7.4	3.3			10		w.	blank	blank		S. G. Fineman.
SWISS.																			
Geneva	28.23	717.0	29.66	753.3	54.3	12.4	51	nne.			3		2			0.20	0.5	clear	The Observatory.
TURKISH.																			
Constantinople			29.86	758.4	77.7	25.0	33	se.	11	5.0			3		sw.	0	0		The Observatory.
Valona			29.76	755.8	76.1	24.5		s.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.88	759.0	70.0	21.1	80	ne.			2	1 c		w.		0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.60	675.6			71	21.7	97					5 k		w.		0	0		Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.07	763.8	30.15	765.8	49	9.4	67	n.	11	4.9		9 cs	0	nw.		0.04	1.0	cloudy	J. O. Barnes.
Alpena, Michigan	29.48	748.8	30.14	765.5	35	1.7	79	e.	13	5.8			10 s			0.07	1.8	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.3	29.87	758.7	30	— 1.1	54	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.19	690.6	30.03	762.7	24	— 4.4	64	se.	2	0.9		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.11	764.8	64.0	17.8	65	w.	5	2.2		3 c;cs	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.04	763.0	30.05	763.3	53	11.7	93	n.	2	0.9		2 c	fg.			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.90	759.4	30.09	764.3	62	16.7	84	calm	0	0		7 c	0			0	0	fair	John Healy.
Baltimore, Maryland	30.04	763.0	30.09	764.3	61	16.1	78	calm	0	0		0	fg.			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.05	763.3	30.07	763.8	52.0	11.1	96	nw.	1	0.4			fg.			0.04	1.0	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.23	742.4	29.25	742.9	32.0	0.0		n.	27	12.1			10 n			inap.	inap.	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.54	724.9	30.10	764.5	34.0	1.1	94	calm	0	0			10 s		nw.	0.08	2.0	threatening	A. Pritchard.
Benton, Fort, Montana	27.25	692.1	30.04	763.0	32	0.0	62	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.77	679.9	29.95	760.7	29	— 1.7	67	calm	0	0		7 ck	0	w.		0	0	fair	T. Gibson.
Bismarck, Dakota	28.27	718.0	30.06	763.5	38	3.3	82	calm	0	0			10 s		s.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.04	763.0	30.07	763.8	50	10.0	96	w.	6	2.7		0	fg.			0	0	clear	J. T. Elker.
Boise City, Idaho	27.02	686.3	29.86	758.4	40	4.4	82	nw.	12	5.4		0	6 s		nw.	0	0	fair	J. Kenealy.
Boston, Massachusetts	29.95	760.7	30.11	764.8	48.0	8.9	93	ne.	12	5.4			10 s			0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.81	757.2	29.85	758.2	72.2	22.3	90	e.	6	2.7			10 s		s.	0.39	9.9	cloudy	M. McCarty.
Buffalo, New York	29.37	746.0	30.11	764.8	39.7	4.3	90	ne.	10	4.5			10 s		ne.	0.03	0.8	cloudy	W. Finn.
Buford, Fort, Dakota	28.09	713.5	30.07	763.8	29	— 1.7	88	s.	2	0.9		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.92	760.0	30.20	767.1	41.0	5.0	92	n.	7	3.1			10 s		w.	0.28	7.1	cloudy	D. N. Farnell.
Cairo, Illinois	29.60	751.8	30.00	762.0	66.6	19.2	80	sw.	6	2.7		8 cs	0	sw.		0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.07	763.8	30.09	764.3	53	11.7	100	calm	0	0		0	4 s			0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.04	763.0	30.08	764.0	53.0	11.7	90	se.	1	0.4		1 cs	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.00	736.6	29.68	753.9	48.5	9.2	96	se.			2		10 n		se.	0.38	9.7	light rain	J. J. McLean.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	74	23.3	55	s.	4	1.8		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.99	761.7	30.04	763.0	67.0	19.4	90	sw.	2	0.9		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.23	742.4	30.07	763.8	66.0	18.9	73	calm	0	0		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.11	764.8	60.5	15.8	84	w.	2	0.9		3 cs	fg.	w.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.06	611.1	29.93	760.2	31.9	— 0.1	69	n.	6	2.7		0	0			0.01	0.3	clear	E. McGovern.
Chicago, Illinois	29.28	743.7	29.98	761.5	39.9	4.4	82	n.	9	4.0			10 s			0.96	24.4	cloudy	John Laurens.
Chincoteague, Virginia	30.05	763.3	30.07	763.8	52	11.1	100	ne.	1	0.4		3 k	4 s			0.01	0.3	fair	C. F. Dickens.
Cincinnati, Ohio	29.36	745.7	30.01	762.2	67.0	19.4	68	se.	2	0.9		8 c	0	w.		0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.30	744.2	30.02	762.5	45.5	7.5	89	n.	5	2.2		8 k	fg	w.		0.19	4.8	cloudy	J. B. Newlin.
Coleman City, Texas	28.19	716.0	29.98	761.5	50	13.3	86	n.	14	6.3		0	9 s		n.	0.01	0.3	cloudy	T. J. Kenan.
Columbus, Ohio	29.15	740.4	29.99	761.7	57	13.9	80	nw.	4	1.8		6 cs	0	w.		0	0	fair	D. Cuthbertson.
Concho, Fort, Texas	28.10	713.7	30.00	762.0	58.0	14.4	83	n.	26	11.6			10 n		n.	inap.	inap.	thund'r st'm	J. McGlone.
Davenport, Iowa	29.34	745.2	29.98	761.5	44	6.7	83	ne.	9	4.0			10 s		ne.	0.15	3.8	cloudy	R. R. Martin.
Davis, Fort, Texas	25.18	639.6	29.90	759.4	53	11.7	43	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.10	713.7	29.85	758.2	50	10.0	74	n.	3	1.3		10 k	0			0	0	cloudy	D. Moore.
Deadwood, Dakota	25.35	643.9	29.87	758.7	29	— 1.7	81	calm	0	0		0	0			0.11	2.8	clear	F. Willson.
Delaware Breakwater, Del.	30.05	763.3	30.07	763.8	50	10.0	100	e.	2	0.9			fg.			inap.	inap.	dense fog	T. S. Townsend.
Denver, Colorado	24.77	629.1	29.93	760.2	41.0	5.0	86	calm	0	0			fg.			0	0	dense fog	F. M. Neal.
Des Moines, Iowa	29.16	740.7	30.00	763.5	42	5.6	83	n.	5	2.2			10 s		n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.04	763.0	50.0	10.0	86	e.	7	3.1			10 s			0.35	8.9	cloudy	E. R. Brace.
Dodge City, Kansas	27.50	698.5	30.05	763.3	38	3.3	72	ne.	2	0.9		0	3 s		nw.	0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.33	745.0	30.03	762.7	41.8	5.4	86	n.	1	0.4			10 s			0.01	0.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.38	746.2	30.13	765.3	36	2.2	79	ne.	7	3.1			10 s		ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.11	739.4	29.91	759.7	64.0	17.8	90	w.	1	0.4		0	0			0.18	4.6	clear	F. Belford.
Eagle Rock, Idaho	25.31	642.9	29.99	761.7	36	2.2	72	sw.	5	2.2		0	0			0.20	5.1	clear	H. R. Boynton.
Eastport, Maine	30.08	764.0	30.15	765.8	41.0	5.0	96	n.	10	4.5			10 s;fg		n.	0	0	cloudy	D. O. Murphy.
Elliott, Fort, Texas	27.37	695.2	30.07	763.8	41	5.0	52	n.	4	1.8		0	0			inap.	inap.	clear	W. J. Cundall.
El Paso, Texas	26.31	668.3	29.95	760.7	50.0	10.0	29	w.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.36	745.7	30.08	764.0	41	5.0	92	ne.	10	4.5			10 s			0.21	5.3	cloudy	C. A. Shaw.
Escanaba, Michigan	29.45	748.0	30.11	764.8	39.0	3.9	65	ne.	13	5.8			10 s		n.	0	0	cloudy	George Heathcote.
Galveston, Texas	29.88	758.9	29.92	760.0	74	23.3	84	se.	12	5.4			10 n		s.	inap.	inap.	thund'r st'm	E. O'C. MacInerney.
Grand Haven, Michigan	29.33	745.0	29.99	761.7	40.0	4.4	100	ne.	1	0.4			10 s		ne.	0.50	12.7	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	29.84	757.9	48.5	9.2	38	e.	9	4.0		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	30.03	762.7	30.05	763.3	53	11.7	100	n.	20	8.9			fg.			0	0	dense fog	R. M. Crawford.
Helena, Montana	25.76	654.3	29.93	760.2	33	0.6	62	w.	3	1.3		0	0			0	0	clear	N. C. Smith.
Huron, Dakota	28.71	729.2	30.06	763.5	38.2	3.4	90	se.	4	1.8			10 s			0.02	0.5	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.14	740.1	29.93	760.2	69.0	20.6	66	s.	4	1.8		0	1 k		sw.	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.79	756.7	29.82	757.4	71.4	21.9	92	s.	13	5.8		2 cs	2 ks	s.	sw.	0.13	3.3	fair	I. A. Reed.
Jacksboro, Texas	28.86	733.0	30.01	762.2	55	12.8	74	ne.	4	1.8			10 s		n.	0.64	16.3	cloudy	D. J. Carr.
Jacksonville Florida	30.02	762.5	30.06	763.5	70.5	21.4	59	calm	0	0		0	0			0	0	clear	J. W. Smith.

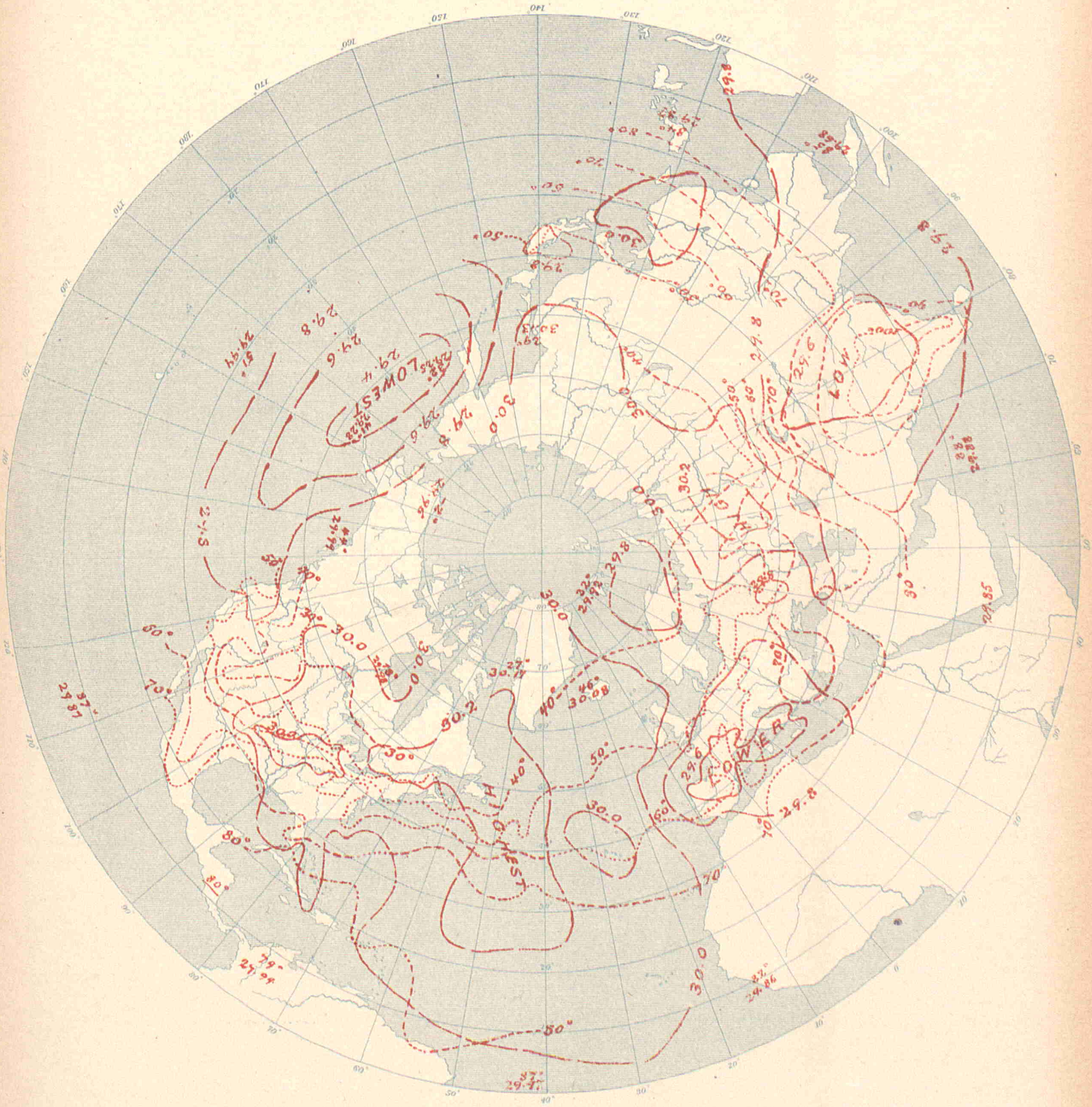
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.54	699.5	29.99	761.7	31	— 0.6	81	calm	0	0		0	0			0	0	clear	W. B. Lamar.
Keokuk, Iowa	29.31	744.5	29.96	761.0	47.0	8.3	86	ne.	6	2.7			10 n		ne.	0.01	0.3	light rain	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	80.0	26.7	58	ne.	5	2.2		2 cs	2 k	w.	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.07	763.8	30.09	764.3	49.5	9.7	100	ne.	14	6.3			fg.			0.11	2.8	dense fog	H. Mc P. Baldwin.
Knoxville, Tennessee	29.09	738.9	30.11	764.8	59.8	15.4	70	sw.	1	0.4		4 c	sk.	w.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.26	743.2	30.02	762.5	40	4.4	82	n.	6	2.7			10 s			0.02	0.5	cloudy	S. C. Emery.
Leavenworth, Kansas	29.21	741.9	30.09	764.3	45	7.2	76	n.	6	2.7			10 s		ne.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.08	738.6	29.92	760.0	45.0	7.2	80	calm	0	0		0	4 s			0	0	fair	W. Bell.
Little Rock, Arkansas	29.67	753.6	29.98	761.5	63	17.2	84	n.	21	9.4			10 s			0.01	0.3	cloudy	W. U. Simons.
Los Angeles, California	29.62	752.3	30.02	762.5	46	7.8	83	w.	2	0.9		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.41	747.0	29.96	761.0	68.5	20.3	73	s.	4	1.8		8 c	1 s	w.		0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.39	746.5	30.07	763.8	60	15.6	72	calm	0	0		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.49	749.0	30.14	765.5	36.0	2.2	79	e.	21	9.4		0	9 s		e.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.04	763.0	30.06	763.5	59.0	15.0	81	n.	14	6.3		0	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.57	649.5	29.98	761.5	32	0.0	52	se.	6	2.7		0	0			0.04	1.0	clear	F. Burke.
Marquette, Michigan	29.44	747.8	30.16	766.1	36	2.2	69	n.	1	0.4			10 s			inap.	inap.	cloudy	E. H. Thompson.
Memphis, Tennessee	29.66	753.4	29.98	761.5	66	18.9	78	se.	4	1.8		0	9 s		sw.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.27	743.4	30.01	762.2	38	3.3	89	ne.	9	4.0			10s;fg			0.13	3.3	threatening	W. Line.
Missoula, Fort, Montana	26.73	678.9	30.03	762.7	39	3.9	57	nw.	2	0.9		0	7 s			0	0	fair	J. H. Young.
Mobile, Alabama	30.04	763.0	30.08	764.0	62.4	16.9	87	w.	2	0.9		1 c	0	sw.		0	0	clear	C. A. Read.
Montgomery, Alabama	29.84	757.9	30.07	763.8	60.2	15.7	94	calm	0	0		8 ck	fg.	w.		0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.11	739.4	30.09	764.3	35	1.7	88	calm	0	0			10 s			0	0	cloudy	H. Bessaut.
Mt. Washington, N. H.	23.84	605.5	30.02	762.5	35.0	1.7	100	nw.	28	12.5			10n;fg		nw.	0.54	13.7	light rain	S. W. Beall.
Nashville, Tennessee	29.49	749.0	30.06	763.5	64.0	17.8	73	se.	3	1.3		6 cs	0	w.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.08	764.0	50	10.0	100	calm	0	0			fg.			inap.	inap.	dense fog	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.09	764.3	55	12.8	86	calm	0	0			9s;fg		s.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.00	762.0	68.0	20.0	84	se.	4	1.8		7 cs	0	nw.		0	0	fair	H. C. Smyth.
New York, New York	29.91	759.7	30.09	764.3	52	11.1	100	calm	0	0			fg.			0	0	dense fog	G. E. Franklin.
Norfolk, Virginia	30.05	763.3	30.08	764.0	55	12.8	93	calm	0	0			fg.			0	0	dense fog	Wm. Davis.
North Platte, Nebraska	27.16	689.9	30.03	762.7	39.6	4.2	72	sw.	6	2.7			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y.	29.80	756.9	29.84	757.9	42.0	5.6	82	calm	0	0			10 s			0	0	cloudy	J. Descomb.
Omaha, Nebraska	28.96	735.6	30.12	765.0	40.3	4.6	79	n.	12	5.4			10 s			0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	29.94	760.5	29.96	761.0	— 2.0	—18.9	96	e.	12	5.4		2 cs	1 s			0	0	clear	P. H. Ray.
Oswego, New York	29.81	757.2	30.14	765.5	39.5	4.2	89	ne.	5	2.2			10 s			0.02	0.5	cloudy	J. G. Linsley.
Palestine, Texas	29.44	747.8	29.99	761.7	67.0	19.4	93	nw.	7	3.1		7 cs	3 ks	w.	w.	0.23	5.8	cloudy	L. M. Pindell.
Pensacola, Florida	30.04	763.0	30.07	763.8	63.2	17.3	93	s.	3	1.3		2 cs	0	w.		0	0	clear	M. McGauran.
Philadelphia, Pa.	29.98	761.5	30.08	764.0	56	13.3	93	sw.	3	1.3		hz.	0			0	0	dense haze	T. F. Townsend.
Pike's Peak, Colorado	17.71	449.8	29.77	756.1	5	—15.0	100	nw.	40	17.9		0	0			0.02	0.5	clear	H. Hall.
Pioche, Nevada	24.01	609.8	29.93	760.2	39.0	3.9	46	s.	6	2.7		6 cs	0			0	0	fair	F. R. Day.
Pittsburg, Pennsylvania	29.21	741.9	30.01	762.2	59.5	15.3	67	calm	0	0			10 s			inap.	inap.	cloudy	W. A. Reid.
Poplar River, Montana	27.91	708.9	30.03	762.7				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.38	746.2	30.06	763.5	43.0	6.1	100	e.	4	1.8			10 n			0.65	16.5	light rain	M. H. Perry.
Portland, Maine	30.09	764.3	30.14	765.5	46.0	7.8	83	ne.	16	7.2			10 n		ne.	inap.	inap.	light rain	W. W. Eichelberger.
Portland, Oregon	29.62	752.3	29.69	754.1	52.6	11.4	93	w.	5	2.2			10 n		w.	0.17	4.3	light rain	M. L. Hearne.
Portsmouth, N. C.					62	16.7	87	ne.	20	8.9			fg.			0	0	dense fog	F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.87	758.7	35.0	1.7	61	s.	4	1.8		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass.	30.05	763.3	30.08	764.0	51.5	10.8	93	w.	4	1.8			fg.			0	0	dense fog	P. T. Jenkins.
Punta Rassa, Florida	30.04	763.0	30.04	763.0	65.5	18.6	75	e.	4	1.8		7 c	0	w.		0	0	fair	W. J. Evans.
Red Bluff, California	29.50	749.3	29.85	758.2	52	11.1	80	s.	10	4.5			10 n		s.	0.08	2.0	light rain	J. R. Williams.
Rochester, New York	29.51	749.5	30.17	766.3	37	2.8	100	e.	8	3.6			10 s			0.01	0.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.14	740.1	29.70	754.4	51.2	10.7	94	calm	0	0			10 n			0.64	16.3	light rain	J. J. Naury.
Sacramento, California	29.83	757.7	29.91	759.7	52.5	11.4	93	se.	4	1.8			10 s			0	0	threatening	J. A. Barwick.
St. Louis, Missouri	29.39	746.5	29.98	761.5	56.0	13.3	100	n.	10	4.5			10s;sk		n.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.69	754.1	29.72	754.9	37	2.8	100	se.	6	2.7			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.22	742.2	30.06	763.5	37.5	3.1	89	n.	3	1.3			10 s		n.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.22	742.2	30.08	764.0	40	4.4	82	sw.	2	0.9			10 s			0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.67	652.0	29.99	761.7	45	7.2	56	se.	2	0.9		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.18	741.2	29.88	758.9	72	22.2	90	e.	4	1.8			10 s		e.	0.06	1.5	cloudy	J. H. Davis.
San Diego, California	29.91	759.7	29.98	761.5	51.6	10.9	95	n.	3	1.3			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	30.05	763.3	30.08	764.0	53.0	11.7	100	s.	2	0.9			fg.			0	0	dense fog	B. A. Blundon.
Sanford, Florida	30.00	762.0			67	19.4	85	n.	2	0.9		0	0			0	0	clear	J. B. Marbury.
San Francisco, California	29.79	756.7	29.86	758.4	53.5	11.9	90	s.	8	3.6			10 n		s.	0.20	5.1	light rain	N. Gorom.
Santa Fé, New Mexico	23.24	590.3	29.85	758.2	34	1.1	35	ne.	9	4.0		0	0			inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	29.98	761.5	30.07	763.8	67	19.4	73	w.	2	0.9		1 c	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.35	669.3	29.95	760.7	33	0.6	81	sw.	7	3.1		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.77	756.1	30.01	762.2	67.0	19.4	87	se.	4	1.8			10 ks		se.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.75	730.2	29.97	761.2	48.5	9.2	88	n.	12	5.4		0	3 ks		n.	0.21	5.3	clear	W. M. Mattingly.
Sitka, Alaska	29.93	760.2	29.99	761.7	43.5	6.4	78	ne.	3	1.3		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.51	749.5	29.98	761.5	58.0	14.4	93	w.	2	0.9			10 s		w.	1.08	27.4	cloudy	J. B. Campbell.
Smithville North Carolina	30.02	762.5	30.06	763.5	61	16.1	84	n.	4	1.8		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.93	709.4	29.98	761.5	41.3	5.2	82	e.	6	2.7		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.31	744.5	29.98	761.5	54	12.2	86	n.	5	2.2			10 s		nw.	0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.53	724.6	29.95	760.7	54	12.2	93	e.	10	4.5			10 s		w.	1.20	30.5	cloudy	J. H. Bryce.
Starkville, Miss.	29.58	751.3	30.05	763.3	64	17.8	90	se.	3	1.3		3 c	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.23	717.0	30.06	763.5	36	2.2	92	calm	0	0			10 s			0	0	cloudy	A. Schneider.
Stockton, Fort, Texas	26.94	684.3	29.95	760.7	55	12.8	74	sw.	4	1.8		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.09	764.3	30.14	765.5	43.0	6.1	93	ne.	17	7.6			10 s		ne.	0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.24	691.9	29.91	759.7	39	3.9	42	w.			1	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.34	745.2	30.02	762.5	45	7.2	93	e.	8	3.6			10s;fg		e.	0.02	0.5	cloudy	A. Buell.
Tucson, Arizona	27.54	699.5	29.88	758.9	46	7.8	37	s.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.26	743.2	29.28	743.7	41	5.0	73	se.	24	10.7			10 n		se.	1.09	27.7	light rain	Samuel Applegate.
Verde, Fort, Arizona					42	5.6	25	ne.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.78	756.4	30.03	762.7	62.4	16.9	86	se.	4	1.8		10cs;k	0	s.		0	0	cloudy	James Kenealy.
Visalia, California	29.52	749.8	29.90	759.4	54.0	12.2	65	se.	4	1.8		4 cs	0			0	0	fair	O. D. Stewart.
Washakie, Fort, Wyoming	24.49	622.0	29.97	761.2	28.1	— 2.2	87	w.	5	2.2		5k;ck	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.98	761.5	30.08	764.0	60.5	15.8	80	s.	1	0.4		0	hz.			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.12	663.4	29.98	761.5	33	0.6	88	calm	0	0		0	0			0.01	0.3	clear	F. H. Brandenburg.
Williamsport, Pa.	29.46	748.3	30.06	763.5	64	17.8	63	s.	1	0.4		0	fg.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.07	763.8	63	17.2	73	ne.	3	1.3		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.44	646.2	29.79	756.7	41	5.0	54	sw.	7	3.1		0	8 s		w.	0	0	cloudy	J. Grover.
Yankton, Dakota	28.80	731.5	30.08	764.0	37	2.8	61	ne.	2	0.9		10 ok	0			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.72	754.9	29.88	758.9	56.9	13.8	62	n.	1	0.4		1 cs	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			53.0	11.7	76	ne.	2	0.9		2 cs	5ks;s			0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.			29.99	761.7			76	calm	0	0		2 c	0			0.01	0.3	clear	Robert Johnston.
Paramaribo, S. A.	29.98	761.5	29.98	761.5	78	25.6	72	e.			3	5 ck	5 k	e.	e.	1.010	25.7	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.36	745.7	29.92	760.0	79	26.1	95	calm			0	5 c	3 k	nw.	calm	1.26	32.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					80	26.7	98	ne.			4					0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos.
Santiago de Cuba, W. I.	29.97	761.2	30.00	762.0	80	26.7	79	n.	12	5.4		0	2 ks		ne.	0	0		R. Mason.
York Factory, B. A.	29.91	759.7	29.98	761.5	17.5	— 8.1	92	nw.	2	0.9		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic																		
H. M. S. Alexandra, Malta, Mediterranean	29.54	750.3	74	23.3	68	ese.			2		4	ese.						d. clouds.
H. M. S. Dido, Barbadoes, W. I.	30.02	762.5	80	26.7		e.			1		6	w.				1	se.	d. clouds.
H. M. S. Flamingo, N. 21° 23′, W. 72° 24′	29.98	761.5	83	28.3		n.			1		1	e.				1	ne.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.89	759.2	68	20.0	95	ne.			3		0							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.74	755.4	58.5	14.7	73	wsw.			3-5		5							showery.
H. M. S. Rocket, N. 34° 00′, W. 42° 10′	30.30	769.6	70	21.1	70	ne.			3		3					4	nnw.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	30.12	765.0	47	8.3	92	calm			0		10							overcast.
U. S. Navy Yard, Pensacola, Fla.	30.08	763.3	72	22.2	80	sse.	1	0.4			5		sse.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H.*	30.07	763.8	46	7.8	92	ne.	10	4.5			10		ne.	0	0			cloudy.
U. S. S. Alliance, N. 30° 10′, W. 79° 55′	30.03	762.7	74	23.3	81	nnw.			3		2			0	0	long		clear.
U. S. S. Colorado, New York, N. Y.	30.14	765.5	54	12.2	93	s.	1	0.4			10			0	0			foggy.
U. S. S. Franklin, Norfolk, Va.	30.07	763.8	55	12.8	87	w.	1	0.4			10		calm	0	0			foggy.
U. S. S. Jamestown, N. 24° 27′, W. 80° 15′	29.89	759.2	78	25.6	95	nne.			3		2		nne.	0	0	sm'h	ne.	fair.
U. S. S. Kearsarge, N. 33° 26′, W. 77° 46′	30.06	763.5	67	19.4	84	n.			4		0					long		clear.
U. S. S. Lancaster, Gravesend, Eng	29.85	758.2	48	8.9	78	ne.			2		8					sm'h		misty.
U. S. S. Michigan, Cleveland, Ohio	29.98	761.5	50	10.0	100	nnw.			2		8		nnw.					fair.
U. S. S. Minnesota, New York, N. Y.	30.09	764.3	55	12.8	81	ssw.			1									foggy.
U. S. S. New Hampshire, Newport, R. I.	30.04	763.0	50	10.0	100	calm			0		10		calm			sm'h		foggy.
U. S. S. Portsmouth, Hampton Roads, Va	30.13	765.3	59	15.0	94	calm			0							sm'h		foggy.
U. S. S. Powhatan, Key West, Fla	30.01	762.2	77	25.0	91	ene.			1		2							fair.
U. S. S. Quinnebaug, Monrovia, Liberia, Africa	30.00	762.0	82	27.8	87	wnw.			3		8		wnw.			sm'h		fair.
U. S. S. Saratoga, N. 24° 48′, W. 53° 47′	30.24	768.1	75	23.9	81	ene.			3-4		2		ene.	0	0	sm'h	ene.	clear.
U. S. S. St. Louis, League Island, Pa.	30.07	763.8	56	13.3	87	wsw.	7.2	3.2			8			0	0			foggy.
U. S. S. Swatara, Aspinwall, U. S. C. †	29.84	757.9	81	27.2	87	nne.			3		8		nne.	0	0	long	nne.	fair.
U. S. S. Tennessee, Fort Monroe, Va.	30.11	764.8	56	13.3	94	calm	0	0			10			0	0			foggy.
U. S. S. Vandalia, Norfolk, Va	30.07	763.8	56	13.3	94	ne.			1		10							foggy.
U. S. S. Wabash, Boston, Mass.	30.13	765.3	50	10.0	86	ne.	5	2.2			10		ne.					cloudy.
U. S. S. Yantic, N. 33° 24′, W. 77° 48′	30.07	763.8	67	19.4	79	n.			3		0					mod.	ne.	clear.
Commewyne, N. 27° 47′, W. 54° 31′	30.24	768.1	76.2	24.6	73	e.			4		4							d. clouds.
S. S. British Crown, N. 51° 24′, W. 14° 35′ †	29.93	760.2	51	10.6		nne.			4		7		nne.	0	0	sli't	nne.	fine.
S. S. Illinois, N. 38° 40′, W. 66° 04′			66	18.9		e.			2		5?		e.			mod.	se.	clear?
S. S. Lord Gough, N. 41° 01′, W. 47° 05′	30.28	769.1	55	12.8		ese.			2		2			0	0	long	e.	clear.
S. S. Ohio, N. 45° 34′, W. 30° 06′ †	29.98	761.5	55	12.8	87	se.			5		10		se.	4 h'r	4 h'r	mod.	se.	overcast.
S. S. Pennsylvanian, N. 39° 18′, W. 60° 52′ †	30.06	763.5	69	20.6		w.			4		10					mod.	nw.	overcast.
S. S. Circassian, N. 46° 20′, W. 55° 00′			37	2.8	100	ssw.			6		10		wsw.	5 h'r	5 h'r	1	wsw.	raining.
S. S. Grecian, Quebec, Quebec	30.28	769.1	45	7.2	84	ene.			3		0			0	0			clear.
S. S. Scandinavian, Indian Cove, St. Lawrence river			40	4.4		nne.			3					0	0			blue sky.
S. S. Antillas, N. 22° 14′, W. 74° 42′			84	28.9		ne.			1		2		ne.			sm'h		fine.
S. S. Jason, N. 38° 24′, W. 67° 35′ †	30.22	767.6	71.6	22.0		ene.			5		9 n					4	ene.	raining.
S. S. Alvo, Aguadilla, Porto Rico, W. I.	30.01	762.2	74	23.3		calm			0		5 k		calm	0	0	small	ese.	fine.
S. S. Alene, Greytown, Nicaragua †	29.94	760.5	79	26.1		ne.			2		2		ne.			irreg.	ne.	rain-squalls
S. S. Atlas, Jacmel, Hayti, W. I. †	29.92	760.0	84	28.9														
S. S. Assyria, N. 36° 16′, W. 7° 34′	29.80	756.9	65	18.3		wnw.			6		5		wnw.	10 h'r	10 h'r	r'gh	wnw.	squally.
S. S. Bolivia, N. 40° 27′, W. 68° 14′ *†	30.16	766.1	46	7.8		ene.			1		fg.			0	0	sm'h	e.	dense fog.
S. S. Dorian, N. 34° 06′, W. 39° 00′	30.26	768.6	63	17.2		n			4		8		n.	0	0	long	n.	fine.
S. S. Furnessia, Liverpool, Eng †	30.05	763.3				ssw.			3		6		wsw.	0	0			fair.
S. S. Elysia, N. 39° 50′, W. 27° 47′	29.91	759.7	57.8	14.3	88	wnw.			4		6		wnw.	4 h'r	4 h'r	mod.	wnw.	fair.
S. S. Llandaff City, Bristol, Eng						ene.			5		7			sh'rs	sh'rs			
S. S. Pavonia, N. 41° 38′, W. 64° 19′	29.97	761.2	54	12.2	100	nnw.			3		7		s.	0	0	sli't	ssw.	hazy.
S. S. Scythia, N. 44° 26′, W. 43° 57′	30.35	770.9	49	9.4	93	nnw.			3		0			0	0		nnw.	clear
S. S. Canada, N. 43° 02′, W. 43° 55′	30.39	772.0	50.0	10		nne.			5	ck	0	nne.		0	0	h'vy	ane.	almost clear.
S. S. Pereire, N. 49° 25′ W. 16° 06′ †	29.99	761.8	50	10		ene.			6		10		ene.	light	light	r'gh	nne.	raining.
S. S. Ville de Marseilles, N. 21° 15′ W. 93° 56′			80	26.7		e.			4		8		ese.	0	0	mod.	se.	cloudy.
S. S. Abyssinia, N. 41° 30′, W. 50° 00′			43	6.1	?	nnw.			5		10		nnw.	4 h'r	4 h'r	mod.	s.	foggy.
S. S. Bohemia, N. 50° 33′ W. 1° 00′						e.			3-4		8		e.	0	0	long	e.	fair.
S. S. Gellert, New York, N. Y.	30.09	764.3	56	13.3	81	sse.			1		10		sse.	0	0			foggy.
S. S. Rugia, N. 40° 57′, W. 65° 25′	30.07	763.8	54	12.2		w.			4		3			rain	rain	sm'h		misty.
S. S. Silesia, N. 49° 19′, W. 22° 04′	30.15	765.8	52	11.1		n.			5		6		n.	0	0	4	n.	fair.
S. S. Westphalia, N. 44° 19′ W. 45° 06′	30.47	773.9	54	12.2	87	nw.			5		1		w.	3 h'r	3 h'r	mod.	n.	fair.
S. S. City of Berlin, N. 48° 00′, W. 32° 40′	30.08	764.0	57	13.9	87	se.			4		1		se.	0	0	high	w.	clear.
S. S. City of Paris, New York Bay, N. Y.*	29.93	760.2				calm			0									foggy.
S. S. Bulgarian, N. 43° 01′, W. 59° 07′ *	30.04	763.0				ssw.			1		fg.		w.	2 h'r	2 h'r			foggy.
S. S. Colorado, N. 23° 43′, W. 85° 55′ †	30.05	763.3	76	24.4		ese.			4		2		ese.	0	0	mod.	ese.	clear.
S. S. Rio Grande, N. 33° 00′, W. 78° 00′ *†	30.03	762.7	72	22.2		nne.			2		1		nne.	0	0	small	se.	clear.
S. S. Chalmette, New York, N. Y. †	30.11	764.8	54	12.2		sw.			2					0	0			foggy.
S. S. New York, N. 34° 40′, W. 75° 20′ *†	30.00	762.0	70	21.1		n.			4							hv'y	e.	foggy.
S. S. Alleghany, Norfolk, Va †	30.09	764.3	62	16.7		calm			0		0			0	0			foggy
S. S. Archimede, New York Bay, N. Y. †	30.09	764.3	62	16.7	61	ne.			1		7		ne.	0	0			foggy.
S. S. City of Washington, Havana, Cuba †	30.07	763.8	80	26.7		e.			1		2		e.	0	0	sm'h		clear.
S. S. Denmark, New York, N. Y. †	29.99	761.7	54	12.2		sw.			1		2			0	0			light fog.
S. S. England, N. 40° 54′, W. 59° 32′	30.04	763.0				sw.			5		10		sw.	0	0	mod.	sw.	cloudy.
S. S. Helvetia, N. 51° 06′, W. 14° 56′	30.06	763.5	52	11.1	79	ne.			1		2		ne.	1 h'r	1 h'r	sm'h	ne.	clear.
S. S. Holland, N. 42° 39′, W. 43° 00′	30.21	767.3	59	15.0		n.			6		8		nw.	0	0	high	n	cloudy.
S. S. America, N. 44° 53′, W. 30° 46′ *	29.87	758.7	57.0	13.9	97	ene.			3		5		ene.	1 h'r	1 h'r	h'vy	nnw.	showery.
S. S. Donau, N. 49° 00′, W. 25° 03′	30.20	767.1				nne.			4-5		8		nne.	2 h'r	2 h'r	mod.	nne.	cloudy.
S. S. Elbe, N. 48° 50′, W. 8° 42′	29.85	758.2	50	10.0	94	ne.			6		3		ne.	2 h'r	2 h'r	long	ne.	squally
S. S. Habsburg, N. 49° 31′ W. 9° 00′	29.91	759.7				ne.			6		8		ne.	3 h'r	3 h'r	r'gh	ne.	cloudy.
S. S. Hermann, N. 40° 44′, W. 61° 58′	30.06	763.5	61	16.1	79	sw.			3		5		e.	3 h'r	3 h'r	long	sw.	foggy.
S. S. Main, N. 42° 11′, W. 51° 00′	30.22	767.6	46	7.8		se.			2		4		e.	0	0	mod	se.	fair
S. S. Oder, N. 43° 29′, W. 34° 33′	29.87	758.7	54.5	12.5		ene.			5		5		ne.	6 h'r	6 h'r	cross	var.	fair.
S. S. Ohio, Sandy Hook, N. J.	30.11	764.8									3		s.	0	0			foggy.
S. S. Strassburg, N. 52° 40′, E. 3° 42′	29.88	758.9	60.0	15.6	55	nne.			2-3		5		ne.	0	0	3	n.	fair.
S. S. Weser, N. 49° 50′, W. 13° 50′	30.02	762.5				ene.			6		5		ene.	0	0	r'gh	ne.	fair.
S. S. Orinoco, New York, N. Y.*†	29.94	760.5	68	20.0		ene.			5		fg			0	0	h'vy		foggy.
S. S. Muriel, N. 11° 10′ W. 61° 20′	29.96	761.0	84	28.9		ene.			4		0			0	0	long	e.	clear.
S. S. City of Augusta, Savannah, Ga †	30.08	764.0				n.			2		2		nw.	0	0			clear.
S. S. Belgenland, N. 43° 15′, W. 40° 50′ †	30.37	771.4	52	11.1	79	nw.			7		9		nnw.	shr's	shr's	h'vy	n.	squally.
S. S. Nederland, N. 46° 23′, W. 31° 33′			55	12.8	81	ene.			4		10		ene.	0	0	long	ene.	hazy.
S. S. Rhynland, Antwerp, Belgium	29.78	756.4	50	10.0	86	nw.			4		4		n.	0	0			fair.
S. S. Pennland, Antwerp, Belgium			66	18.9	74	e			3		2		e.	0	0			clear.
S. S. Waesland, off Sandy Hook, N. J.	30.09	764.3	54	12.2		ssw.			1		0			0	0			dense fog.
S. S. Zeeland, N. 49° 46′, W. 9° 30′ *†	29.88	758.9	55	12.8		ne.			5		5		ne.	0	0	long	ne.	fair.
S. S. P. Caland, Rotterdam, Holland	29.87	758.7	49.6	9.8	73	ne.			3		5		ne.					fair.
S. S. Leerdam, N. 49° 01′ W. 31° 55′	30.14	765.5	61	16.1	82	ne.			5		2		se.			long	nw.	clear.
S. S. W. A. Scholten, N. 40° 27′, W. 70° 27′	30.14	765.5	51.4	10.8	94	calm			0		10		w.	0	0	2	se.	foggy.
S. S. Caracas, Puerto Cabello, Venezuela †	30.02	762.5	80	26.7	89	ene.			1				ene.	1 h'r	1 h'r	mod.	ene.	cloudy.
S. S. Claudius, N. 33° 40′, W. 76° 30′ †	30.13	765.3	69.5	20.8	92	nne.			6		6		ne.	0	0	high	var.	fair.
S. S. State of Florida, Greenock, Scotland	30.22	767.0	49	9.4		ese.			2		9		se.	0	0			cloudy.
S. S. State of Nebraska, N. 52° 28′ W. 23° 10′ *†	30.16	766.1	51	10.6		ne.			5		8		ene.	0	0	sm'h		cloudy.
S. S. State of Nevada, off Sandy Hook, N. J. †	30.17	766.3	60	15.6		sw.			1		fg.		e.	0	0			dense fog.
S. S. State of Alabama, N. 44° 16′, W. 70° 44′ *	29.97	761.2	44	6.7		e.			1		fg.		e.	0	0	sm'h		foggy.
S. S. Lepanto, N. 37° 20′, E. 2° 09′ *	29.60	751.8	58	14.4		w.			5		5		w.	0	0	h'vy	w.	fair.
S. S. Otranto, N. 48° 54′, W. 25° 18′	30.30	769.6	51	10.6		ene.			6		6		ene.	0	0	mod.	ene.	fair
S. S. Romano, New York, N. Y. †	30.01	762.2				sw.			1		10							foggy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Salerno, N. 37° 11′, E. 7° 40′ †.	29.53	750.0	62	16.7		W			5		10		w.	2 h'r	2 h'r	r'gh	w.	cloudy.
S. S. Dominion, N 45° 51′, W 51° 01′ *†.	30.32	770.1	37	2.8		sse.			3		10		sse.			sm'h	ese	cloudy.
S. S. Oregon, Belfast Bay, Ireland.	30.02	762.5	47	8.3		nne.			4		4		nne.					fair.
S. S Lake Huron, N. 46° 38′, W. 55° 43′.			34	1.1		wsw.			2		10		nw.	8 h'r	8 h'r	sm'h		raining.
S. S. Lake Manitoba, N. 45° 00′, W. 41° 20′.	30.35	770.9	54	12.2		n.			6		5		n.	o	o	high	nne.	fair.
S. S. Daniel Steinmann, N. 41° 10′, W. 69° 14′†.	30.10	764.5	50	10.0		calm			0		0			o	o	mod.	s.	dense fog.
S S. Norman, Boston, Mass.	29.99	761.7				ne.			5		10		ne.	o	o			cloudy.
S. S. Saxon, N. 38° 50′, W. 75° 03′ †.	30.07	763.8				calm			0		10			o	o			foggy.
S. S. Adriatic, N. 51° 03′, W. 13° 30′*†	30.16	766.1	54	12.2	74	ene.			5		6		ene.	o	o	mod.	ene.	fair.
S. S. Antonio Lopez, Havana, Cuba, W. I.	30.07	763.8	75	23.9	81	calm			0		1			o	o			clear.
Schr. Abbie H. Gheen, New York, N. Y†	30.10	764.5	56	13.3		sw.			1					o	o			smoky.
Bg. Abbie Clifford, N. 18° 09′ W. 65° 44′†.	30.04	763 0	80	26.7		ese.			3		3		se.	o	o			clear.
Bk. Aquidneck, N. 20 01′, W. 60° 38′.						var.			6				var.	light	light	light	ese.	clear.
Bk. Alcira, N. 30° 31′, W. 63° 23′.	30.08	764.0	76	24.4		sse.			5		6		sse.	o	o	r'gh	var.	hazy.
Bk. Adelaide, N. 31° 44′, W. 56° 10′.			74	23.3		sse.			2		1		sse.	o	o	mod.	e.	fair.
Schr. Annie R. Lewis, N. 36° 12′ W. 71° 36′†.	30.08	764.0	74	23.3		e.			4		3		e.	3 h'r	3 h'r	mod	se.	clear.
Bk. Aureola, N. 13° 20′, W. 61° 00′†.	29.90	759.4	89	31.7		ese.			5		3		ene.	o	o	h'vy	ne.	clear.
Bk. Achille F, N. 39° 45′, W. 20° —′†.	30.03	762.7	59.5	15.3	77	nw.			2		7		nnw.	o	o	long	nne.	fair.
Bk. Alba, N. 61° 00′, W. 49° 19′*†	30.19	766.8	39.2	4.0		n.			3									
Bk. Annie R. Storer, N. 32° 25′, W. 71° 30′ †.	29.86	758.4				ne.			4		2		ene.	2 h'r	2 h'r	sm'h	ese.	fair.
Bgt. Achsah, Kingstown, St Vincent, W. I†.	29.93	760.2	81	27.2		ene.			2		2		ene.	o	o			clear.
Bk. Champion, N. 21° 00′, W. 33° 30′.			72	22.2	80	e.			2		2		e.	o	o	sm'h		clear.
Bkt. C. S. Bushnell, N. 33° 40′ W. 50° 06′.	30.29	769.4				se.			3		1		s.	o	o	h'vy	ne	fine.
S. Cornelius, N. 49° 07′, W. 32° 00′†.	30.18	766.6	52.2	11.2		e.			3		0			o	o	hv'y	sse.	clear.
Bk. Commerce, N. 31° 31′, W. 66° 31′.			73	22.8		sse.			4		10		wsw.	4 h'r	4 h'r	cross	var.	threatening
S. David Stewart, Chesapeake Bay†	30.22	767.6				e.			2		fg.			driz.	driz.			
S. S.D. J. Foley, Port Maria, Jamaica, W. I*†.	29.95	760.7	79	26.1	86	se.			2		4		e.	o	o			fair.
Bk. Don Justo., N. 36° 30′, W. 75° 01′.						n.			1					o	o	long	ese.	hazy.
Schr. Edith R. Seward, N. 27° 30′, W. 69° 15′ †.	30.05	763 3	76	24.4		ssw.			1		3		calm	o	o	mod.	nw.	clear.
S. E. J. Spicer, Liverpool, Eng	29.89	759.2	49	9.4	78	ene.			6		5		ene.	o	o			fair.
U. S. Fish Com. S. S. Fish Hawk, Quantico Creek, Va †.	30.15	765.8	62	16.7	94	sse.			1		1		calm	o	o			clear.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.07	763.8				calm			0					o	o			clear.
S. Festina Lente, N. 44° 42′, W. 59° 13′.	29.99	761.7	37	2.8		nne.			6		10		ne.	6 h'r	6 h'r			raining.
Bg. Gipsy Queen, Cardenas, Cuba, W. I*†.	30.00	762 0				ene.												fair.
Bk. Godeffroy, N. 27° 03′ W. 68° 00′*.	29.96	761.0	75.0	23.9	84	se.			4–5		4		sse.	12 h'r	12 h'r	mod.		fair.
Bk. Galeon, N. 21° 27′, W. 89° 35′ †.	29.92	760.0	75	23.9		e.			2		1		e.	o	o	sm'h	ene.	blue sky.
S. Hedwig, N. 37° 08′, W. 62° 47′.	30.10	764.5	67.6	19.8	95	s.			2		7		s.	5 h'r	5 h'r	3	ese.	
Bk. Hattie G. McFarland, N. 35° 15′, W. 75° 10′ *†.	29.95	760.7	50	10.0		n.			4		fg.			o	o	r'gh	e.	
Bk. John H. Pearson, N. 33° 12 , W. 53° 25′.						sse.			1				w.	2 h'r	2 h'r	long	ene.	cloudy.
Schr. Isabel Alberto, N. 31° 20′, W. 77° 00′ †.	29.98	761.5				n.			4		3		n.	o	o	high	nne.	fair.
Bk. Cato, setubal, Portugal*†.	29.80	756.9				wnw.			3		2		nw.	o	o			clear.
Schr. John L. Thomas, N. 27° 00′, W. 79° 30′*†	30.10	764.5				nne.			1		1		ene.	o	o	h'vy	nne.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	29.96	761.0				nne.			1		1		nne.	o	o			clear.
Schr. Jennie N. Ruddell, off Smithville, N. C†.	30.08	764.0	65	18.3	84	ne.			1		0			o	o	sm'h		clear.
Bkt. Josephine, N. 0° 32′, W. 40° 33′ †.	29.97	761.2	87	30.6	65	ne.			4		2		ene.	o	o	r'gh	ne.	fair.
Schr. Leonessa, N. 32° 19′, W. 75° 00 †.	30.04	763.0				n			7		8		n.	1 h'r	1 h'r	cross	var.	cloudy.
Bg. L. & W. Armstrong, San Juan, Porto Rico, W. I*†	30.08	764.0				wsw.			1		1		e.	1 h'r	1 h'r	sm'h		
Light-house Tender Laurel, St. Georges, Sd, Fla†.	30.09	764.3	68	20.0		n.			1		5		n.	o	o			fair.
Bg. Lillan, N. 27° 40′, W. 58° 12′ †.	30.13	765.3	75	23.9		se.			3		4		sse.	½ h'r	½ h'r	mod.	se.	fair.
Bk. Louise Adelaide, N. 24° 25′, W. 79° 30′†	29.97	761.2	82	27.8		ne.			1		0			o	o	sm'h	n.	clear.
S. S. Madrid, N. 37° 15′, E. 3° 54†	29.58	751.3	56	13.3	87	w.			6		7		w.	13 h'r	13 h'r	mod.	w.	clearing.
Schr. Minnie A. Bonsall, Brunswick, Ga †.	30.06	763.5	75	23.9		wnw.			1		0			o	o			clear.
Bgt. Kryolith, N. 52° 30′ W. 18° 30′ *†.	30.19	766.8				ene.			6		8		ne.			mod.	n.	showery.
S. Mt Washington, N. 30° 00′, W. 38° 40′ *†.	30.28	769.1	74	23.3	72	ene.			5		10		se.	o	o	sm'h		cloudy.
Bgt. Myrtle, Clementsport, N. S*†.	30.18	766.6				ne.			1		10		ne.	o	o			misty.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†.	29.95	760.7							2		2		sw.	hv'y	hv'y			clear.
Bg. O. C. Clary, N. 30° 53′, W. 70° 58′*†.	29.80	756.9	70	21.1		nnw.			4		10		n.			r'gh	nnw.	light rain.
S. S. Raleigh, N. 33° 00′, W. 73° 45′†.	29.99	761.7	68	20.0		nne.			6		0					rg'h	nne.	clear.
S. Rudolph, N. 44° 28′, W. 28° 13′.			54.5	12.5		ese.			5–6		10		ese.	4 h'r	4 h'r	cross	var.	squally.
Bk. Rebus, N. 40° 02′, W. 47° 59′.	30.35	770.9	57	13.9		ese.			4		2		se.	o	o	mod.	nne.	fair.
Bg. Rising Sun, N. 26° 16′, W. 09° 14′*†	29.88	758.9	80	26.7		w.			4		1		w.	o	o	short	nw.	
Bk. Rosalie, N. 27° 05′ W. 00° 50′*†	30.14	765.5				se.			4					¼ h'r	¼ h'r	light	se.	clear.
S. Salisbury, N. 45° 09′, W. 18° 08′*.	30.00	762.1	53.2	11.8	87	nne.			4		3		nne.	o	o	cross	nne.	fair.
Bk. Southern Belle, off Huelva, Portugal†.	29.67	753.6	55	12.8		wsw.			4–5		3		w.	sh'rs	sh'rs	r'gh		
S. St. Francis, N. 3° 25′, W. 29° 00′†.	30.01	762.2	90	32.2	63	ese.			3		2		ene.	o	o	sm'h	ne.	fair.
Bk. St. Lawrence, N. 29° 39′, W. 56° 33′*†.	30.15	765.8				sse.			1				s.	o	o	h'vy	nne.	fine.
S. S. Rathleven, N 33° 42′, E. 24° 50′.	29.87	758.7	67.3	19.6	81	se.			4		4		ssw.	o	o	2		d. clouds.
Bkt. Sunlight, N. 24° 55′, W. 56° 52′.						ese.			4		3		ese.	o	o	mod.	se.	fair.
Bg. Tenerife, Guantanamo, Cuba, W. I*.	29.94	760.5				n.			2		0							
S. Vincenzo Accame, N. 35° 40′ W. 41° 15′.†.	30.42	772.7	68.0	20		n.			5		4		n.	o	o	long	n	fine.
Bk. Winifred, N. 6° 35′, W. 43° 27′*†.	30.10	764.5											ene.	rain	rain		ene.	clear.
Schr. Wm. Wilcox, N. 35° 35′, W. 74° 45′*†.	30.08	761.0				n.			6		fg.			o	o	cross	var.	foggy.
S. Wm. McGilvery, N. 32° 40′, W. 42° 54′ *†	30.30	769.6	69	20.6	65	ene.			4		8		ene.	o	o	mod.	nne.	fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†.	30.16	766.1	61	16.1	98	e.			2		5		ne.					d clouds.
H. M. S. Bondicea, Cape Town, Cape Colony.	30.01	762.2	62	16.7	94	nw.			1		4							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay.	30.07	763.8	60.2	15.7	94	calm			0		9		calm					d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*.	30.07	763.8	62	16.7	94	calm	o	o			8		w.	0.44	11.2	sm'h		hazy.
U. S. S. Enterprise, Cape Town, Cape Colony*.	29.97	761.2	63	17.2	89	nnw.			2		10		calm			sm'h		cloudy.
U. S. S Galena, Montevideo, Uruguay*.	30.04	763.0	62	16.7	88	calm			0		8					sm'h		cloudy.
S. S. Jerome, Para, Brazil *.	29.78	756.4	79	26.1							4		se.	o	o			fair.
S. S. Archimedes, Rio de Janeiro, Brazil.	30.12	765.0				calm			0		4		calm	o	o			fair.
S. S. Hevelius, S. 26° —′, W. 41° 30′ †.	30.39	771.9	76	24 4		s.			3		2		sse.	o	o	sm'h		clear.
S. S. Ptolemy, S. 4° 30′, W. 30° —′.	30.03	762.7	81.6	27.0	74	ese.			4	0	4 k	wnw.		1.75	44.4	2	ese.	fair.
Bk. Ohildwall, S. 1° 15′, W. 30° 34′*	29.86	758.4	80	26.7		e.			4		5		e.	2 h'r	2 h'r	slpt	ne.	fair.
Bk. Gronsvaer, S. 18° 18′, W. 33° 00′†	30.11	764.8	78.0	25.6		var.			2		0			o	o	long	sw.	clear.
S. S. Minnie N. Gerow, S. 16° 23′ W. 36° 29′†.	30.14	765.5	80	26.7		se.			4		3		sse.	o	o	sm'h	s.	clear.
S. S. Mendoza, S. 22° 21′, W. 36° 26′†.	30.30	769.6				calm			0				ese.	o	o	long	se.	clear.
S. S. Paramita, S. 53° 01′, W 55° 45′†.	30.40	772.1	38	3.3		var.			3		5		w.	o	o	sm'h		fair.
S. Storm King, S. 37° 26′, W. 52° 12′ *†.	30.18	766.6				e.			2		2		e.	6 h'r	6 h'r	r'gh	e.	clear.
Inchkeith, S. 20° 40′, W. 1° 16′.	30.21	767.3	73.8	23.2	66	se.			4		4							d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 29° 23′, E. 122° 09′.	30.06	763.5	61	16.1	77	e.			1		1	sw.						blue sky.
H. M. S. Champion, N. 5° 40′, E. 104° 00′.	29.68	753.9	85	29.4	96	ese.			2		3					2	ese.	d. clouds
H. M. S. Sappho, N. 8° 48′, W. 79° 32′.			81	27.2	74	n.			2		5	nw.						d. clouds
H. M. S. Flying Fish, N. 31° 29′, E. 122° 40′.	30.06	763.5	55	12.8	74	ne.			2		3					2	n.	d. clouds.
H. M. S. Swiftsure, Esquimalt, V. I.	29.85	758.2	51	10.6	93	calm			0		8	ese.						d clouds.
H. M. S. Zephyr, N. 37° 33′ E. 121° 25′.	29.85	758.2	54	12.2	80	w.			3–5		7	w.				1	w.	squally.
H. M. S. Tamega, Macao, China.	29.98	761.6	77.0	25.0	79	ne.			3		10			o	o			overcast.
U. S. Naval Hospital, Yokohama, Japan.	29.97	761.2	54.5	12.5	93	n.			1		10		ne.	0.02	0.5			sprinkling.
U. S. S. Adams, Port Townsend, Wash. Ter †.	29.76	755.9	50	10.0	93	wsw.			1		2					sm'h		clear.
U. S. S. Monocacy, Nagasaki, Japan.	29.95	760.7	58	14.4	76	nnw.			2		8		calm					cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
U. S. S. Palos, Hong Kong, China	29.86	758.4	74	23.3	86	e.			2		10		e.					cloudy.
U. S. S. Richmond, Hong Kong, China*	29.90	759.4	75	23.9	90	e.			2		10		e.	0.7	18.			cloudy.
S. S. Oceanic, N. 41° 10′, W. 163° 44′*	29.99	761.7	51	10.6	93	wsw.			3		9		wsw.			3	var.	cloudy.
S. S. City of Chester, Hoolton, Cal †	29.75	755.6	51	10.6	?	sw.			2		10			h'vy	h'vy			overcast
S. S. Oregon, N. 43° 29′, W. 124° 13′†	29.72	754.9	50	10.0	93	se.			3		5		se.			light	sw.	squally.
S. S. G. W. Elder, Puget Sound †	29.77	756.1	52	11.1	86	nw.			4		8							cloudy.
S. S. City of Pekin, Hong Kong, China †	30.15	765.8	75	23.9	77	e.			2		10			0	0			overcast.
S. E. B. Sutton, N. 8° 00′, W. 112° 30†	29.89	759.2	87.2	30.7	69	e.			2		2		ene.	sh'rs	sh'rs	sm'h	n.	clear.
S. S. Colima, N. 9° 09′, W. 84° 18′ †	29.94	760.5	83	28.3	83	nw.			2		7		nw.	0.02	0.5	small		fair.
S. S. Granada, N. 28° 09′, W. 115° 56′†	29.95	760.7	58	14.4	82	n.			1		3		n.	0	0	small	nw.	clear.
S. S. San José, Panama, Panama †	29.93	760.2	81	27.2		ne.			1		8 n		nne.	2 h'r	2 h'r			cloudy.
S. Armenia, N. 9° 00′, W 117° 00′*	29.77	756.1	82	27.8	87	ene.			4		4			2 h'r	2 h'r	mod.	var.	fair.
S. S. Benledi, N. 10° 30′, E. 108° 30′ *	29.74	755.4	86	30.0	80	s.			1–2		4		calm	0	0	sm'h		fair.
S. Grecian, S. 1° 50′. E. 128° 28′†	29.88	758.9	85	29.4	87	calm			0		3		var.	0	0	sm'h		clear.
S. Titan, N. 8° 02′, W. 113° 59′*†	29.88	758.9	80	26.7	96	ese.			1		1		e.	1 h'r	1 h'r	sm'h	se.	clear.
Bk. Xenia, N. 9° 53′, E. 109° 18′			87	30.6		ssw.			1		2		ssw.	0	0	sm'h		clear.
S. S. Columbia, N. 41° 00′. W. 124° 35′†	29.71	754.6	50	10.0	100	ssw.			3		10		ssw.			mod	ssw.	rainy.
U. S. S. Ranger, La Libertad, San Salvador	29.94	760.5	82	27.8	71	n.			1		10		calm	0	0	sm'h		cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, S. 32° 11′, E. 166° 11′			65	18.3	94	sse.			4		6	s.				5	se.	showery.
H. M. S. Espiegle, S. 29° 17′, E. 167° 30′	29.85	758.2	68	20.0	79	s.			4		5					4	sse.	d. clouds.
H. M. S. Kingfisher, S. 20° 15′, W. 156° 58′	29.97	761.2	76	24.4		e.			1		2					3	e.	d. clouds.
H. M. S. Liffey, S 29° 56′, W. 71° 20′	29.93	760.2	60	15.6		ene.			2							2	ene.	d. clouds.
H. M. S. Nelson, S. 33° 52′, W. 151° 13′	29.90	759.4	69	20.6	80	n.			1		3							d. clouds
U. S. S. Hartford, Tahiti, Society Ids., Oceania*	29.87	758.7	76	24.4	86	calm			0		5			0	0	sm'h		fair.
U. S. S. Iroquois, Valparaiso, Chili	30.02	762.5	58	14.4	88	calm			0		10					sm'h		cloudy.
U. S. S. Lackawanna, S. 29° 50′, W. 139° 55′*	30.04	763.0	66	18.9	59	ese.			3		2		e.			sm'h	se.	clear.
U. S. S. Onward, Callao, Peru*†	30.08	764.0	66	18.9	89	calm			0		10							cloudy.
U. S. S. Pensacola. Callao, Peru*	29.89	759.2	66	18.9	89	calm			0		10			0	0			cloudy.
U. S. S. Wachusetts, S. 7° 21′, W. 165° 05	29.86	758.4	82	27.8	87	ene.			1		2		e.			sm'h		clear.
Bk. May Hulse, S. 48° 02′, W. 82° 30′	29.63	752.6	49.5	9.7	89	sse.			3		4							d. clouds.
S. S. City of New York, S. 0° 07′, W. 165° 57′ †	29.90	759.4	81	27.2	78	ne.			4		0			1 h'r	1 h'r	sm'h		clear
S. S. City of Sydney. S. 34° 10′, E. 157° 25′*†	30.10	764.5	69	20.6	85	nne.			4		1 k		ne.	0	0	small	ssw.	clear.
S. S. Zealandia, Sydney, N. S. W	30.13	765.3	68	20.0	90	calm			0		0							clear.
S. David Crockett, S. 54° 34′, W. 79° 14′*	29.55	750.6	46.5	8.1	96	nw.			1		10			0	0	sm'h		foggy.
H. M. S. Lark, S. 15° 32′, E. 160° 08′	29.92	760.0	77.3	25.2	95	calm			0		10					1	se.	overcast.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 15° 50′, E. 53° 54′	29.73	755.1	83	28.3		sw.			1		0							blue sky.
H. M. S. Euryalus, N. 10° 15′, E. 76° 02′	29.69	754.1	85	29.4	79	nw.			2		5	nw.						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.92	760.0	77	25.0	91	s.			4		5	ssw.				5	sse.	squally.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.82	757.4				ssw.			2		0					1	s.	blue sky
H. M. S. Woodlark, Jask, Persia	29.72	754.9	83	28.3	91	sw.			1		6	sw.						d. clouds
U. S. S. Juniata, Bushire, Persia	29.83	757.7	79	26.1	82	wnw.			3		1			0	0	mod.	wnw.	clear.
Bk. Alpheus Marshall, S. 29° 40′, E. 39° 57′*†	30.05	763.3				e.			5		4		e.	0	0			fair.
S. Annie M. Law, S. 15° 50′ E. 91° 07′*†	29.89	759.2	79	26.1		sse.			2		1		se.	0	0	long	s.	clear
S. S. Burswell, N. 16° 25′, E. 63° 10′ *†	29.88	758.9	88	31.1		wnw.			2		1		calm	0	0	sm'h		clear.
Bk. Bore, Lomboc, Lomboc Id, Oceania *†	30.23	767.8	86	30.0		s.			3							sm'h	ssw.	hazy.
Bk. Ceylon, S. 23° 52′, E. 60° 22′ *†	30.20	767.1	78	25.6	82	e.			5		2		ese.	sli't	sli't	r'gh	ese.	clear.
S. Dynomine, S. 32° 10′ E. 37° 50′	30.21	767.3	73	22.8	81	ene.			3		4			sli't	sli't		ene.	misty.
S. S. Malabar, N. 15° 06′, E. 41° 54′						sse.			4		0			0	0	sm'h		clear.
Bk. Pilgrim, S. 7° 52′, E. 104° 40′*†	29.85	758.2				calm			0		3			0	0	mod.	se.	clear.
S. S. Radnorshire, N. 13° 07′ E. 43° 05′*†	29.75	755.6				s.			6		0			0	0	short	s.	clear.
S. St. David, S. 40° 53′ E. 73° 05′*†	30.24	768.1	62	16.7	88	w.			4		1		w.	1 h'r	1 h'r	light	w.	hazy.
Bk. Chas. Stewart, S. 44° 30′, E. 132° 00′ †	29.91	759.7	54	12.2		ne.			3		2		ne.	0	0	long	var.	clear.
S. S. Foscolio, N. 5° 52′, E. 80° 44′ †	29.76	755.9				sw.			2		5		sw.	0	0	long	ssw.	fair.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 5, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.83	757.7	65.1	18.4	77	e.			1		0			0	0	clear	Malaterre.
Algiers			29.71	754.5	64.8	18.2	57	w.			8		4			0.197	5.0	cloudy	Thève.
La Galle			29.59	751.5	64.4	18.0	62	wnw.			5		4			0	0	cloudy	Fonfrède.
Tunis			29.61	752.0															Jacques.
Saida			29.89	759.1															Pérès.
Tebessa			29.69	754.0	65.8	18.8	25	nw.			4		3			0	0	pretty fair	St. Martin.
Geriville					63.3	17.4	47	wnw.			1		0			inap.	inap.	clear	Forfert.
Laghouat			29.81	757.1	70.2	21.2	25	e.			3		0			0	0	clear	Abraham.
Biskra			29.69	754.0	74.8	23.8	30	nw.			3		7			0	0	very cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			29.78	756.4	55.0	12.8	84	s.	6	2.7			10kn			0.865	22.0	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.73	755.1	29.82	757.4	68.5	20.3	45	ne.	10	4.5			9			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	28.93	734.8	29.47	748.6	53.6	12.0	82	e.			6		10			2.012	51.1	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.93	734.7	29.67	753.6	64.8	18.2	52	e.	8.7	3.9			4			0	0		Dr. Wierzbiski
Eperies	28.73	729.8	29.56	750.8	67.3	19.6	42	n.			3	cs	7 s			0	0		Julius Mikolik.
Gratz	28.39	721.0	29.61	752.0	59.7	15.4	65	e.			2		10			0	0		Andreas Rospini.
Hermannstadt	28.15	715.0	29.50	749.4	72.0	22.2	55	se.			3		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.28	718.4	29.59	751.6	58.6	14.8	67	ene.			3	5 c	k			0	0	fair	The Staff.
Lemberg	28.71	729.2	29.67	753.6	62.2	16.8	61	ne.			2		4			0.012	0.3		Dr. T. Stanecki.
Neu Schmecks	26.35	669.2	29.61	752.0	59.0	15.0	55	e.			1		2			0.122	3.1		Dr. V. von Szontagh.
Pola	29.21	741.9	29.28	743.7	60.8	16.0	76	ene.			7		9			0	0		I. R.Hydrographic Office.
Szathmar	29.11	739.3	29.56	750.8	69.3	20.7		se.			4		6			0.197	5.0		Joseph Midlinszky, S. J.
Szegedin	29.22	742.1	29.49	749.0	63.3	17.4	68	ne.			4		10			0.295	7.5		Karl Stancel.
Trieste	29.29	743.9	29.39	746.4	59.4	15.2	56	ne.			4		10			0.165	4.2		Royal Academy.
Vienna	28.93	734.7	29.62	752.3	63.7	17.6	46	ne.			2		3			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.98	761.5	30.08	764.0	43.3	6.3	85	sse.	6	2.7			9			0	0	overcast	W. Boswell.
Armagh, Observatory	29.84	757.9	30.08	764.0	43.7	6.5	81	n.	7	3.1			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			29.98	761.5	41.0	5.0	51	ne.	14	6.3			10					raining	John Hartnup.
Bolton, Sharples	29.40	746.7	29.94	760.5	44.4	6.9	58	ene.	18	8.0			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.56	750.8	29.95	760.7	42.7	5.9	74	ne.			5		10			0.01	0.3	overcast	McLandsborough&Preston.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	84.0	28.9	70	ne.			2		6					gloomy	Corpl. W. I. Cull, A. H.C.
Cardington	29.75	755.6	29.85	758.2	54.0	12.2	40	ne.			0.4		5					d. clouds	John McLaren.
Chatham, School M. E.	29.71	754.6	29.84	757.9	52.1	11.2	67	calm			0		6			blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.68	753.9	29.91	759.7	47.1	8.4	52	nne.			3		7					d. clouds	The Staff.
Fort Napier, Natal	27.55	699.8	29.78	756.4	78.2	25.7	34	e.			1		3					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.64	752.5	29.88	758.9	83.0	28.3	75	n.			2		6					raining	Sergt. C. E. Keane.
Galway, Queen's College	29.98	761.5	30.02	762.5	49	9.4	78	ne.			2		6			0.05	1.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.85	758.2	29.90	759.4	62.5	16.9	90	w.			3		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.85	758.2	30.06	763.5	43.9	6.6	90	n.			1		10					drizzling	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.67	753.6	29.84	757.9	50.0	10.0	51	ne.			2		2					blue sky	The Staff.
Guernsey	29.55	750.6	29.86	758.4	43.0	6.1	92	nne.			2		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.81	757.2	29.85	758.2	47.3	8.5	55	n.	12	5.4			4					d. clouds	The Staff.
Leicester, Museum	29.62	752.3	29.88	758.9	43.6	6.4	88	ne.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.81?	757.2?	29.89?	759.2?	63.2	17.3	92	sw.					2					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.00	762.0	30.05	763.3	78.2	25.7	64	nw.			1		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.38	746.2	29.92	760.0	38.5	3.6	41	nne.			3		10					raining	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.63	752.6	29.86	758.4	48.0	8.9	49	ne.			3		6					d clouds	The Staff.
Plymouth	29.81	757.2	29.88	758.9	46.0	7.8	64	ne.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.99	761.7	30.09	764.3	47.8	8.8	70						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.56	750.8	29.62	752.3	83.6	28.7	35	calm			0		10					misty	W. H. Lyne.
Sheffield	29.70	754.4	29.98	761.5	41.1	5.1	74	ne.			1		10			0.20	5.1	raining	W. F. Cooper.
Silloth Rectory	29.98	761.5	30.01	762.2	49.9	9.9	58	n.			3		3			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.99	761.7	43.2	6.2	61	ne.	11	4.9			10					overcast	W. C. Carlisle.
Truro, Royal Institution	29.88	758.9	29.94	760.5	52	11.1	66	nw.			7		7					d. clouds	W. Newcombe.
Valencia, Observatory	30.02	762.5	30.05	763.3	50.4	10.2	51	n.	21	9.4			9					d. clouds	The Met'g'l Office.
Sub-series.																			
Goze, Episcopal Seminary	29.40	746.7	29.79	756.7	65.8	18.8	56	sw.	9.3	4.2		2 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.40	772.1	30.45	773.4	39	3.9	59	n.	14	6.3		0	0			0	0	clear	H. J. Cundall, C. E
Chatham, N. B*	30.40	772.1	30.47	773.9	38	3.3	52	sw.	1	0.4		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.80	756.9	29.99	761.7	46.8	8.2	94	se.			1		10 n			0.390	9.9	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.43	772.9	30.48	774.2	32.0	0.0		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.37	771.4	30.39	771.9	37	2.8	82	ne.	15	6.7		0	2 s			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.21	741.9	30.07	763.8	32	0.0	78	n.	12	5.4			10 s			0	0	hazy	James Stewart.
Fredericton, N. B.	30.38	771.6	30.45	773.4	42.3	5.7	49	ne.	8	3.6		0	7 s			0	0	d. clouds	Prof. Harrison, L. L. D.
Granton, Ontario	28.84	732.5	29.95	760.7	47.0	8.3	100	w.	9	4.0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.33	770.4	30.46	773.7	40	4.4	70	n.	2	0.9		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.58	751.3	29.99	761.7	39.7	4.3	85	sw.			3	10 ck	0	sw.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.62	752.3	29.90	761.0	49	9.4	89	se.	11	4.9			10 n		s	0.30	7.6	heavy rain	A. P. Knight, M. A.
Little Glace Bay, N. S.								e.			3	4 k	0	e.		0	0	d. clouds	C. H. Rigby.
Montreal, Quebec*	29.93	760.2	30.14	765.5	43	6.1	93	e.	12	5.4			10 n			0.29	7.4	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.74	755.4	29.99	761.7	43.1	6.2	90	e.			1		10 s			0.41	10.4	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.13	739.9	29.83	757.7	44	6.7	93	sw.	20	8.9			10 n			0.36	9.1	light rain	Rev. R. Mosley.
Peterboro, Ontario	29.19	741.4	29.92	760.0	52.7	11.5	86	sw.			2	6 k	3 s			0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.30	744.2	29.99	761.7	45	7.2	92	sw.	13	5.8			10 cs			0	0	cloudy	H Morgan.
Port Stanley, Ontario	29.85	758.2	30.00	762.0	49	9.4	83	w.	16	7.2			10 n			0	0	cloudy	M. Payne.
Quebec, Quebec*	29.95	760.7	30.32	770.1	40	4.4	48	ne.	10	4.5			10 k			0	0	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.38	746.2	29.84	757.9	55	12.8	64	e.	6	2.7			10 n			0.25	6.3	light rain	W. H. McIntyre.
St. Andrews, N. B.	30.36	771.1	30.41	772.4	37	2.8	85	se.	7	3.1			fg.			0	0	foggy	
St. John, N. B	30.25	768.3	30.42	772.7	45.0	7.2	68	se.	5	2.2		3 k	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F.	29.95	760.7	30.21	767.3	35	1.7	100	w.			2	0	0			0.98	24.9	blue sky	J. Higgins.
St. Pierre, N. F.			30.16	766.1	36.7	2.6		nw.			7					0	0		The Commandant
Saugeen, Ontario*	29.18	741.2	29.91	759.7	40	4.4	96	sw.	26	11.6			10 ks			0.47	11.9	cloudy	
Stratford, Ontario	28.66	728.0	29.94	760.5	46.0	7.8	92	w.	10	4.5			10 s			0.127	3.2	d. clouds	O. J. Macgregor, M A
Sydney, C. B*	30.34	770.6	30.40	772.1	40	4.4	57	nw.	4	1.8		0	0			0.01	0.3	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.57	751.1	29.95	760.7	49	9.4	93	sw.	12	5.4			10 n		sw.	0.03	0.8	cloudy	Magnetic Observatory.
Windsor, N. S	30.32	770.1	30.41	772.4	37.0	2.8	81	ne.	8	3.6		0	2 s			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.91	734.3	29.97	761.2	49.7	9.8	91	sw.	17	7.6			10 s			0.15	3.8	overcast	Prof. Wolverton, M. A
Yarmouth, N. S*	30.34	770.6	30.41	772.4	42	5.6	89	e.	1	0.4		8 c	fg.			0.04	1.0	fair	Lt. F. E. Wilmot, R. N
London, Ontario	29.02	737.1	29.91	759.7	49.7	9.8	48	w.			1	0	6 ks			0	0	d. clouds	E.B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper 0-10	Lower 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.89	759.2	29.92	760.0	64.0	17.8	88	wsw.	11.9	5.3		0	5 k			0.090	2.3	light haze	John Duthie.
Springbok Fontein	27.89	708.4			59	15.0	59	w.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.37	644.4																	A. Guelny.
Tchang-kia-tchouang	29.88	759.0	29.99	761.8	60.8	16.0	27	calm			0		0			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	30.05	763.2	30.08	763.9	57.6	14.2	76	e.	6.3	2.8			7			0	0	almost cov'd	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.96	760.9	30.00	762.1	48.9	9.4	56	e.	20	9			0						Oversergent Fischer.
Fanoe	29.96	760.9	29.98	761.4	54.0	12.2	46	e.			4		2						Overloerer Lauridsen.
Godthaab, Greenland	30.19	766.9	30.24	768.0	28.2	— 2.1	75	nne.			4		1						S. Kleinschmidt.
Jacobshavn, Greenland	30.21	767.4	30.26	768.6	23.4	— 4.8		e.			6		3					snowing	
Stykkisholm, Iceland	29.89	759.1	29.93	760.2	41.0	5.0	89	calm			0		10					raining	A. O. Thorlacius.
Thorshavn	30.08	763.9	30.10	764.5	50.7	10.4	71	sw.	9	4			9						Overloerer Bergh.
Upernavik, Greenland																			
Vestervig	29.92	759.9	30.01	762.2	52.3	11.3	39	e.			2		0						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	28.98	736.0	29.61	752.1	60.4	15.8	73	ne.			1		n			0	0		M. Labroue, Director.
Alençon, Normal School	29.22	742.2	29.77	756.2	49.3	9.6	74	sw.			1		n			0	0		M. Nicot, Director.
Arras, Engineer School	29.47	748.5	29.72	754.9	58.6	14.8	99	nw.			4	ck	0	sw.		0	0		M. Fénéon, Command't.
Avignon, Normal School	29.42	747.3	29.50	749.3	68.4	20.2	53	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.03	737.4	29.57	751.0	62.2	16.8	52	ne.			1		10 n			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.47	748.5	29.73	755.1	56.3	13.5	45	nne.			2		2			0	0	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	28.58	726.0	29.45	747.9	66.2	19	81	ne.			4	ck	0			0	0		M. Gobin, Director.
Bordeaux, Observatory	29.24	742.6	29.49	749.0	57.4	14.1	76	wsw.			1		10		s.	0.512	13.0	covered	M. Rayet, Director.
Bourges, Normal School	29.04	737.7	29.58	751.4	59.9	15.5	54	n.			1		n		n.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.65	753.1	29.89	759.2	53.6	12.0	59	ne.			3		4		ne.	0	0		M. de Kermarés, Dir.
Caen, Normal School	29.71	754.6	29.78	756.5	48.9	9.4	63	n.			3		10		nne	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.28	743.8	29.60	751.7	64.9	18.3	74	nne.			4		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.13	739.9	29.62	752.4	64.8	18.2	56	nne.			3		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.20	716.3	29.52	749.7	61.6	16.6	51	n.			1	5 c	0			0.043	1.1	⅓ covered	M. Alluard, Director.
Cluny, Normal School	28.68	728.5	29.51	749.6	62.6	17	57	e.			1		8		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.77	730.8	29.61	752.1	62.1	16.7	40	e.			4		2	e.	e.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	26.99	685.5	29.44	747.7	60.1	15.6	25	w.			4		7 n			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.44	722.3	29.54	750.4	58.5	14.7	57	s.			2		10		s.	0	0		M. Kina, Director.
Grenoble, Normal School	28.70	729.0	29.45	748.0	65.5	18.6	47	nnw.			1	ck	0	nnw.		0	0		M. Ablard, Director.
Guéret, Normal School	28.02	711.8	29.56	750.9	55.6	13.1	66	ne.			1		cn		ne.	0.256	6.5		M. Delorme, Dir.
Lamballe, Normal School	29.62	752.3	29.89	759.2	52.7	11.5	56	nne.			2		5		nne.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	28.97	735.9	29.53	750.0	59.4	15.2	75	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.69	754.2	29.80	756.8	55.0	12.8	33	nne.			3		5	ne.	n.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.47	723.2	29.52	749.8	61.3	16.3	53	n.			2	8 cs	0			0	0	very cloudy	M. André, Director.
Mans, Normal School	29.42	747.2	29.72	755.0	49.1	9.5	66	ne.			4		8		ene.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.29	743.9	29.56	750.7	60.6	15.9	68	w.			1		8		e.	0.028	0.7		M. Stephan, Director.
Montlouis	24.39	619.5	29.23	742.5	46.9	8.3	45	se.	13.0	5.8			6			0.224	5.7		M. Cave for Dr. Fines.
Montpellier, Normal School	29.34	745.3	29.47	748.4	69.8	21	62	w.			3		2		w.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.90	734.1	29.67	753.6	63.3	17.4	47	nne.			2	ck	0			0	0		M. Hasse, Director.
Nantes, Observatory	29.59	751.6	29.75	755.7	50.9	10.5	58	nne.			1.2		10					sprinkling	M. Larocque, Director.
Perpignan, Observatory	29.42	747.3	29.53	750.1	66.9	19.4	45	s.	1.8	0.8			7	s.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.78	527.7			33.4	0.8		s.			1				s.	0.157	4.0		M. Vaussenat, Director.
Privas, Normal School	28.45	722.0	29.49	749.0	61.5	16.4	74	s.			1		2 s	s.	s.	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.74	628.3			40.5	4.7	82	ene.			3	2 ck	0			0.043	1.1	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.57	751.1	29.60	751.9	57.9	14.4	57	ne.			4		8		ne.	0	0	¾ covered	Lt. E. Decante, Director
Roche-sur-Yon, N. School	29.46	748.2	29.67	753.6	52.7	11.5	63	n.			4		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.45	697.3	29.54	750.3	59.4	15.2	68	se.			2		10			0	0	covered	M. Seger, Director.
Rouen, Normal School	29.72	754.8	29.76	756.0	55.0	12.8	52	nne.			3		10	nne.		0	0	covered	M. Mouillot, Dir.
Saint Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.51	749.6	29.67	753.7	59.9	15.5	48	nne.			2		5			0	0		M. Renou, Director.
Toulouse, Observatory	28.86	733.1	29.58	751.2	61.9	16.6	58	nne.			1		5	nw.		0	0	cloudy	M. Baillard, Director.
Tours	29.49	749.1	29.67	753.6	55.4	13.0	52	nnw.			1		8		ne.	0.063	1.6	rainy	M. de Tastes.
Versailles, Observatory	29.19	741.4	29.68	753.9	58.6	14.8	47	ne.			2					0.043	1.1		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.47	748.6	29.62	752.4	54.1	12.3	76	w.	11.9	5.3			10 kn		w.	0.067	1.7	light rain	M. Cartier, Director.
GERMAN.																			
Ansbach	28.22	716.8	29.62	752.3	64.0	17.8	39	ne.			4		2		ne.	0	0		Prof. Jnedt.
Bamberg	28.85	732.8	29.68	753.9	64.8	18.2	55	se.			4	0	4 s			0	0		Prof. Dr. Hoh.
Berlin	29.66	753.3	29.80	756.9	64.4	18.0	46	e.			2		5			0	0		Meteorological Institute.
Breslau	29.26	743.1	29.78	756.5	62.4	16.9	51	nne.			2		8			0.130	3.3		Royal University Obs'y
Carlsruhe	29.17	740.9	29.61	752.0	65.1	18.4	47	ene.			4		5	e.		0	0		Albert Senz.
Cassel	29.02	737.1	29.73	755.2	66.6	19.2	46	e.			6		5	se.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.65	753.1	66.7	19.3	38	e.			1		6			0	0		Physical Society.
Friedrichshafen	28.13	714.5	29.49	749.0	65.5	18.6	44	ne.			6		2	e.		0	0		Wilhelm, Chief Tel.
Hamburg	29.78	756.5	29.87	758.8	57.6	14.2	51	nne.			3		1			0	0	hazy	E. Preller.
Kiel	29.90	759.4	29.91	759.8	50.0	10.0	62	ne.			2		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.38	746.3	29.80	756.9	52.7	11.5	76	ne.			2		10			0	0		H. Leppig, Asst.
Magdeburg	29.61	752.0	29.79	756.7	57.9	14.4	63	ne.			2		2	ene.		0	0		Dr. Assmann.
Memel	29.92	759.9	29.97	761.1	59.0	15.0	49	ne.			4		0						Issermann.
Munich	27.76	705.7	29.62	752.4	58.5	14.7	52	ne.			4		3	e.		0	0		Central Station.
Neufahrwasser	29.95	760.7	29.97	761.1	46.4	8.0	64	n.			2		8			0	0		A. Lothes.
Neustadt, Palatinate	29.13	740.0	29.66	753.3	64.0	17.8	51	nne.			2		10	ne.		0	0		Dicknether.
Stuttgart	28.65	727.7	29.51	749.5	65.3	18.5	35	ne.			4		6	n.		0	0		Prof. Dr. Schoder.
Wustrow	29.94	760.5	29.97	761.1	49.8	9.9	71	ene.			3	0	3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.25	743.0	29.63	752.5	76.1	24.5		s.			4.0		8			0	0	hazy	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.66	753.3	29.71	754.6	84.3	29.1	67	sw.	32.0	14.3			0			0	0	blue sky	
Deesa	29.18	741.2	29.63	752.6	104.0	40.0	13	ssw.	10.0	4.5			0			0	0	blue sky	
Bombay	29.68	753.8	29.71	754.7	86.1	30.1	64	nw.	27.0	12.1			0			0	0	blue sky	
Poona, Yarrowda	27.85	707.3	29.63	752.7	96.3	35.7	28	w.	31.0	13.8			10			0	0	overcast	
Trichinopoly	29.41	747.1	29.68	753.9	101.7	38.7	32	wsw.	2.0	0.9			6	nne.	nne.	0	0	d. clouds	
Belgaum	27.21	691.1	29.68	754.0	86.8	30.4	56	se.	18.0	8.0			8	s.	w.	0.03	0.8	d. clouds	
Lahore	28.83	732.2	29.53	750.1	101.2	38.4	16	nw.	4.0	1.8			0			0	0	blue sky	
Roorkee	28.63	727.2	29.48	748.9	100.3	37.9	13	calm	5.0	2.2			0			0	0		
Agra	29.00	736.6	29.54	750.2	105.1	40.6	11	nw.	6.0	2.7			0			0	0	blue sky	
Nagpur	28.54	725.0	29.53	750.1	105.0	40.6	13	calm	6.0	2.7			0			0	0	blue sky	
Jubbulpore	28.28	718.4	29.57	751.1	103.7	39.8	10	nw.	8.0	3.6			0			0	0	blue sky	
Lucknow	29.18	741.0	29.54	750.2	99.4	37.4	26	w.	6.0	2.7			0			0	0	blue sky	
Allahabad	29.21	742.0	29.51	749.5	103.4	39.7	14	nw.	4.0	1.8			0			0	0	blue sky	
Patna	29.33	745.1	29.51	749.5	100.9	38.3	19	nw.	6.1	2.7			0			0	0	blue sky	
Hazaribagh	27.59	700.8	29.51	749.6	96.5	35.8	12	wnw.	7.8	3.5			0			0	0	blue sky	
Cuttack	29.54	750.4	29.62	752.4	89.1	31.7	59	wnw.	10.0	4.5			0			0	0	blue sky	
Calcutta, Alipore	29.59	751.6	29.61	752.2	85.4	29.7	74	ssw.	13.0	5.8			0			0.08	2.0	blue sky	
Dhubri	29.47	748.4	29.58	751.4	81.7	27.6	79	calm	1.5	0.7			10		sw.	0.69	17.5	overcast	
Chittagong	29.63	752.7	29.72	755.0	82.2	27.9	86	se.	7.0	3.1			2			0	0	blue sky	
Sibsagar	29.31	744.5	29.65	753.0	77.6	25.3	84	se.	2.0	0.9			8	w.	w.	0.80	20.3	d. clouds	
Jeypore	28.20	716.3	29.58	751.3	101.7	38.7	22	wnw.	12.0	5.4			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Beliary	28.18	715.8	.....	.....	100.5	38.1	22	nnw.	2	0.9	.....	5 ck	0	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.86	758.4	78.6	25.9	83	se.	12.6	5.6	.....	.....	10	s.	se.	0.01	0.3	overcast	
ITALIAN.																			
Udine	29.04	737.7	29.45	747.9	63.0	17.2	49	e.	2.5	1.1	.....	.....	10	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	28.97	735.7	29.48	748.7	66.6	19.2	56	sse.	10.5	4.7	.....	.....	9	.....	.....	0	0	.....	Prof. G. V. Schiapparelli.
Padua	29.32	744.6	29.42	747.3	66.4	19.1	37	ene.	20.6	9.2	.....	.....	10	e.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.60	726.5	29.50	749.2	60.8	16.0	56	n.	3.1	1.4	.....	.....	6	e.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.25	743.0	29.45	747.9	61.3	16.3	44	n	10.5	4.7	.....	.....	10	ne.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	27.62	701.6	29.51	749.6	59.5	15.3	39	w.	.....	.....	4	.....	9	.....	.....	0.067	1.7	.....	Prof. D. O. Bruno.
Pesaro	29.24	742.7	29.28	743.7	55.0	12.8	98	se.	11.2	5.0	.....	.....	10	.....	.....	0.354	9.0	.....	Prof. Luigi Guidi.
Florence	29.11	739.4	29.36	745.8	61.9	16.6	62	ne.	.....	.....	4	.....	10	.....	.....	0.142	3.6	.....	Prof. Costantino Pittei.
Leghorn	29.24	742.7	29.32	744.7	58.8	14.9	74	nnw.	9.4	4.2	.....	.....	10	se.	.....	0.098	2.5	.....	Prof. P. Monte.
Rome	29.13	739.8	29.30	744.1	63.5	17.5	65	sw.	6.3	2.8	.....	.....	10	.....	.....	0.933	23.7	.....	Prof. P. Tacchini.
Lecce	29.24	742.8	29.49	749.1	67.3	19.6	55	ssw.	16.1	7.2	.....	.....	4	sw.	.....	0.118	3.0	.....	Prof. C. de Giorgi.
Cosenza	28.69	728.6	29.56	750.8	58.3	14.6	74	wsw.	6.9	3.1	.....	.....	10	w.	.....	1.130	28.7	.....	Prof. D. Conti.
Cagliari	29.35	745.4	29.54	750.3	59.0	15.0	53	w.	.....	.....	6	.....	8	.....	.....	0.382	9.7	.....	Prof. A. Pacinotti.
Palermo	29.34	745.2	29.58	751.4	64.0	17.8	50	wsw.	18.6	8.3	.....	.....	7	wnw.	.....	0.220	5.6	.....	Prof. G. Caccintore.
Syracuse	29.58	751.4	29.63	752.5	66.9	19.4	47	wsw.	24.8	11.1	.....	.....	6	wsw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R.	28.84	732.6	29.36	745.7	54.3	12.4	95	sw.	9.4	4.2	.....	.....	10	s.	.....	1.004	25.5	.....	Prof. F. Brioschi.
Stelvio	21.78	553.2	.....	.....	32.7	0.4	73	ne.	.....	.....	2	.....	6	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	21.80	553.8	.....	.....	40.8	4.9	52	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.71	754.6	29.74	755.5	44.0	6.7	92	calm	.....	.....	0	0	2 ck	.....	sw.	0.220	5.6	fair	H. Hattori.
Awomori	29.68	753.9	29.71	754.6	43.0	6.1	84	e.	2.7	1.2	.....	0	1 ks	.....	.....	0.159	4.0	clear	K. Ogawa.
Hamamatsu	29.73	755.1	29.76	755.8	55.3	12.9	55	calm	.....	.....	0	0	8 s	.....	.....	0	0	cloudy	
Kagoshima	29.96	761.1	29.98	761.4	54.9	12.7	69	nw.	.....	.....	2	.....	10 n	.....	.....	0.008	0.2	light rain	G. Miyanonaza.
Kioto	29.61	752.2	29.79	756.7	50.0	10.0	65	nnw.	5.0	2.2	.....	0	1 s	.....	.....	0.028	0.7	clear	M. Tojima.
Miasaka	29.91	759.6	29.93	760.3	54.7	12.6	65	w.	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masusaki.
Miyako	29.64	752.9	29.75	755.7	40.9	4.4	99	ssw.	1.0	0.4	.....	.....	10 n	.....	.....	0.969	24.6	raining	N. Honno.
Nagasaki, I. M. Obs'y	29.73	755.1	29.94	760.5	56.1	13.4	61	nw.	5.7	2.5	.....	0	7 n	.....	w.	0.030	0.8	.....	S. Takehayashi.
Niigata	29.71	754.6	29.75	755.6	47.4	8.6	83	sw.	3.3	1.4	.....	0	0	.....	.....	0.040	1.0	clear	M. Morita.
Nobiru	29.74	755.4	29.76	755.8	45.9	7.7	86	n.	3.8	1.7	.....	.....	10 n	.....	.....	0.080	2.0	light rain	H. Midzushina.
Numazu	29.64	752.9	29.68	753.8	60.2	15.7	53	ssw.	.....	.....	6	2 ck	0	.....	.....	0	0	clear	R. Kaneda.
Osaka	29.87	758.7	29.89	759.1	52.0	11.1	75	w.	4.5	2.0	.....	0	0	.....	.....	0	0	clear	H. Omura.
Tokei Obs'y, Yeddo	29.63	752.5	29.70	754.4	51.9	11.1	91	ene.	9.2	4.1	.....	.....	10 s	.....	.....	0.392	10.0	cloudy	The Staff.
Wakayama	29.74	755.5	29.80	756.8	52.0	11.1	69	e.	1.2	0.5	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.80	756.9	29.99	761.7	77.1	25.1	73	e.	15.0	6.7	.....	4cs;ck	2 k	wsw.	ese.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.70	601.9	29.92	759.9	61.5	16.4	64	s.	6.9	3.2	.....	8 ck	0	nw.	.....	0	0	cloudy	Prof. Vicente Fernandez.
Leon	24.32	617.7	29.93	760.2	62.6	17.0	72	calm	0	0	.....	10c;ck	0	w.	.....	inap.	inap.	covered	Prof. M. Leal.
Mazatlan	29.66	753.4	29.92	760.0	69.5	20.8	85	ese.	0.9	0.4	.....	7 cs	0	sw.	.....	0	0	dense fog	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	70	21.1	40	ne.	.....	.....	.....	0	1 s	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.79	756.6	29.79	756.6	53.2	11.8	.....	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	29.77	756.1	29.82	757.5	56.3	13.5	.....	e.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	29.82	757.4	29.82	757.4	50.2	10.1	.....	ne.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.78	756.4	29.78	756.4	58.1	14.5	60	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	29.73	755.2	29.78	756.4	61.5	16.4	55	nne.	.....	.....	2	.....	5	.....	.....	0	0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	757.9	.....	.....	75.2	24.0	88	s.	0	0	.....	.....	10	.....	.....	0	0	.....	Lt. J. J. Roptman, R. D. N.
NORWEGIAN.																			
Bergen	29.99	761.8	30.06	763.4	47.1	8.4	35	nnw.	13	6	.....	.....	0	.....	.....	0	0	.....	
Brono	29.91	759.7	29.95	760.7	42.4	5.8	85	sw.	.....	.....	6	.....	8	.....	.....	.....	.....	raining	
Christiania	29.89	759.1	30.04	762.9	49.8	9.9	28	ssw.	4	2	.....	.....	0	.....	.....	0	0	.....	
Gjæsvær	29.70	754.3	29.72	754.9	35.6	2.0	.....	nw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.71	754.6	29.76	755.8	35.6	2.0	93	sw.	.....	.....	2	.....	10	.....	.....	0.166	2.7	rain & snow	
PORTUGUESE.																			
Angra, Azores	29.63	752.7	29.79	756.7	58.3	14.6	84	ene.	6.9	3.1	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.47?	723.1?	29.46?	748.2?	55.8	13.3	62	sw.	9.4	4.2	.....	.....	6	.....	.....	0.063	1.6	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.90	759.5	29.99	761.7	63.7	17.6	88	sw.	9.4	4.2	.....	.....	10	.....	.....	0.213	5.4	raining	Capt. D. A. de Cunha.
Lisbon, Observatory	29.57	751.1	29.91	759.7	56.1	13.4	73	sw.	18.6	8.3	.....	.....	7	wnw.	.....	0.102	2.6	.....	The Staff.
Ponta Delgada, Azores	29.67	753.6	29.74	755.4	55.0	12.8	79	ne.	1.3	0.6	.....	.....	10	.....	.....	0.217	5.5	light rain	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Serra da Estrella	25.01	635.3	29.87	758.8	32.0	0.0	100	wnw.	26.2	11.7	.....	.....	10	.....	.....	0.236	6.0	rain & fog	
RUSSIAN.																			
Akmolinski	29.06	738.0	30.17	766.2	40.1	4.5	40	nne.	9	4	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.86	758.5	29.88	759.0	36.3	2.4	75	wnw.	9	4	.....	.....	10	.....	.....	0	0	light clouds	Capt. Sselliwerstow.
Ashurada	30.19	766.8	30.10	764.4	67.6	19.8	75	wnw.	13	6	.....	cs	4 k	.....	.....	0	0	light clouds	
Astrakhan	30.12	765.0	30.04	762.9	73.0	22.8	47	sw.	9	4	.....	0	7 ks	.....	.....	inap.	inap.	.....	Capt. Wisganow.
Baku	30.17	766.2	30.12	765.0	66.0	18.9	65	ssw.	5	2	.....	2 ck	0	.....	.....	0	0	.....	
Barnaul	29.49	749.1	30.02	762.6	23.0	— 5.0	90	nw.	13	6	.....	.....	10	.....	.....	0.031	0.8	.....	Meteorological Obs'y
Bielosersk	29.48	748.9	29.95	760.8	49.3	9.6	73	wnw.	2	1	.....	0	8 ks	.....	.....	0	0	.....	
Dorpat	29.82	757.3	30.06	763.6	48.2	9.0	51	ne.	5	2	.....	0	2 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.24	742.8	30.22	767.5	50.4	10.2	28	se.	10	7	.....	8 c	0	.....	.....	0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.43	747.6	29.87	758.7	68.5	20.3	49	e.	13	6	.....	0	7 s	.....	.....	0.004	0.1	.....	
Irkutsk	28.19	716.1	29.85	758.3	39.7	4.3	79	calm	.....	.....	0	.....	7	.....	.....	0	0	.....	
Kasalinsk	.....	.....	.....	.....	71.2	21.8	41	calm	0	0	.....	10 c	0	.....	.....	.....	.....	.....	
Kasan	29.66	753.3	29.93	760.3	43.9	6.6	90	e.	7	3	.....	.....	10	.....	.....	0.138	3.5	.....	Observatory.
Kem	29.81	757.2	29.80	758.5	42.1	5.6	52	w.	9	4	.....	.....	10 k	.....	.....	0	0	hvy. clouds	
Kertch	29.93	760.3	29.96	760.9	61.7	16.5	68	sse.	7	3	.....	5 ck	0	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	29.21	742.0	29.84	758.0	54.5	12.5	90	sse.	7	3	.....	.....	10 n	.....	.....	0.071	1.8	raining	Observatory.
Koslov	29.47	748.5	30.01	762.2	47.8	8.8	76	nnw.	2	1	.....	.....	10 kn	.....	.....	0	0	.....	
Libau	29.98	761.0	30.01	762.2	53.1	11.7	39	ne.	11	5	.....	.....	0	.....	.....	0	0	.....	E. Quass.
Lugan	29.74	755.5	29.93	760.1	62.4	16.9	76	wnw.	9	4	.....	.....	8	.....	.....	0.126	3.2	.....	Meteorological Obs'y.
Moscow	29.50	749.3	29.97	761.2	59.5	15.3	38	wnw.	2.2	1.0	.....	0	6 ks	.....	.....	0.024	0.6	.....	Meteorological Obs'y
Nikolaiev	29.72	754.9	29.80	756.8	77.2	25.1	32	s.	13	6	.....	2 cs	0	.....	.....	0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.86	758.4	29.95	760.6	32.7	0.4	66	e.	5	2	.....	.....	10	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.76	756.0	29.91	759.0	54.7	12.6	49	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.69	754.1	30.02	762.6	79.9	26.6	13	nw.	1.1	0.5	.....	0	3 ks	.....	.....	0	0	.....	
Petrozavodsk	29.76	756.0	29.97	761.1	41.9	5.5	52	wnw.	11	5	.....	.....	10	.....	.....	0	0	light clouds	Dr. Bergmann.
Pinsk	29.29	743.9	29.78	756.3	60.1	15.6	75	e.	9	4	.....	0	5 s	.....	.....	0.130	3.3	.....	
Poti	29.92	759.9	29.95	760.7	85.5	28.7	65	e.	5	2	.....	0	0	.....	.....	0.185	4.7	.....	
St. Petersburg	30.02	762.6	30.05	763.2	44.1	6.7	42	wnw.	9	4	.....	cs	3 k	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.61	701.4	30.06	763.4	60.3	15.7	90	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	
Semipalatinsk	29.41	746.9	30.08	764.0	41.9	5.5	49	nw.	18	8	.....	.....	2	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.56	750.7	29.77	756.2	76.1	24.5	26	sse.	27	12	.....	.....	10 n	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.46	748.3	29.91	759.6	68.2	20.1	35	ese.	11	5		cs	10 k			0	0		
Tashkend	28.32	719.3	29.94	760.4	69.4	20.8	44	nw.	9	4			10 k			0.047	1.2	light clouds.	Terch, A. M.
Tiflis	28.69	728.6	30.06	763.4	74.1	23.4	35	se.	2	1		0	0			0	0		Physical Observatory.
Vernoe	27.47	697.6	29.95	760.7	54.7	12.6	79	n.	9	4			10 n			0	0		
Viatka	29.34	745.1	29.97	761.3	44.1	6.7	77	se.	2	1			10			0.004	0.1		
Warsaw	29.30	745.8	29.78	756.4	61.3	16.3	53	ne.	16	7		0	8 kn			0.075	1.9	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.79	756.6	30.10	764.4	22.6	— 5.2	72	w.	7	3			10			0.004	0.1		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.10	764.5	50	10.0	93	nne.			3	5	0	nne.		0	0		J. Youngclause.
North Unst			30.14	765.5				n.			4		1						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.51	749.6	29.61	752.2	64.4	18.0	48	w.	4.7	2.1		0	4			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.61	752.2	29.67	753.7	48.9	9.4	75	nw.	1.3	0.6			10			0.343	8.7		Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.75	679.4	29.74	755.4	45.9	7.7	73	nw.	6.5	2.9			10			0.315	8.0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.54	699.4	29.77	756.2	51.1	10.6	61	sw.	26.6	11.9		0	5			0.039	1.0	cloudy	The Staff.
Murcia, Met. Obs'y	29.02	752.4	29.76	756.0	64.9	18.3	51	wsw.	6.3	2.8		4	4	ese.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	28.91	734.3	29.78	756.3	42.8	6.0	92	e.	6.7	3.0		8 n	2 n	n.	ne.	0.248	6.3	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.86	733.0	29.76	755.9	53.2	11.8	67	nw.	3.1	1.4			9			0.130	3.3	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.98	761.4	30.04	763.1	73.3	22.9	81	e.	1.1	0.5		10cs;ck	0	w.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.7	83.6	28.7	73	ese.	9.8	4.4		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.92	760.0	30.02	762.5	60.6	15.9	70	wsw.	13.8	6.2		0	6		w.	0.038	1.0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.93	760.2	30.02	762.5	80.6	27.0	85	se.	6.3	2.8		3 c	4 k	se.	se.	0	0		Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.87	758.8	29.91	759.8	41.0	5.0	66	sw.			2		5			0	0		
Umea	29.87	758.8	29.93	760.1	48.2	9.0	56	sw.			4		1			0	0		
Hernosand	29.93	760.1	29.98	761.4	47.8	8.8	48	nw.			2		5			0	0		
Stockholm	29.88	759.0	30.06	763.5	51.1	10.6	44	sw.			2		10			0	0		
Wisby	29.97	761.2	30.03	762.7	40.4	8.0	57	sse.			2		0			0	0		
Sub-series.																			
Upsala	29.93	760.3	30.02	762.5	50.0	10.0	43	s	6.7	3.0			3		w.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.11	714.0	29.52	749.8	58.6	14.8	53	n.			2		5			0	0		The Observatory.
TURKISH.																			
Constantinople			29.68	753.8	88.3	31.3	30	ese.	2	1.0			10		sw.	0	0		The Observatory.
Valona			29.65	753.1	67.1	19.5		sw.			1		5			0	0	stormy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.79	756.7	81.1	27.3	64	sw.			1			w.		0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.51	673.3			65	18.3	58	calm					10 n		ne.	0	0	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.12	765.0	30.20	767.1	55	12.8	62	se.	9	4.0			10 s		s.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.22	742.2	29.88	758.9	40	4.4	82	w.	8	3.6			10 s		nw.	0.74	18.8	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	636.0	29.86	758.4	33	0.6	50	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.34	694.4	30.18	766.6	28	— 2.2	67	ne.	12	5.4			10 s		ne.	inap.	inap.	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.92	734.6	30.09	764.3	66.5	19.2	78	w.	6	2.7			10 s			0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.17	766.3	30.18	766.6	44	6.7	100	ne.	14	6.3			fg.			0.04	1.0	dense fog	Jas. M. Watson.
Augusta, Georgia	29.92	760.0	30.10	764.5	66	18.9	73	calm	0	0		10 cs	0			0	0	cloudy	John Healy.
Baltimore, Maryland	30.15	765.8	30.20	767.1	53	11.7	93	e.	6	2.7			10 n		ne.	0.01	0.3	light rain	Geo. W Felger.
Barnegat City, New Jersey	30.17	766.3	30.19	766.8	44.0	6.7	100	e.	18	8.0			10n;fg			0.12	3.0	light rain	G. A. Hill.
Behring Id., Behring Sea	29.45	748.0	29.47	748.5	32.7	0.4		nw.	18	8.0			10 n			inap.	inap.	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.56	725.4	30.12	765.0	30.0	2.2	82	w.	1	0.4		3 cs	2 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.39	695.7	30.18	766.6	29	— 1.7	90	ne.	2	0.9			10 s			0.08	2.0	cloudy	S. Wheaton.
Billings, Montana	26.86	682.2	30.04	763.0	30	2.2	82	e.	8	3.6			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.31	719.1	30.10	764.5	32	0.0	81	calm	0	0		6 c	0	nw.		inap.	inap.	fair	Cyrus Cramer.
Block Island, Rhode Island	30.23	767.8	30.26	768.6	44	6.7	93	ne.	8	3.6			fg.			0.04	1.0	dense fog	J. T. Elker.
Boise City, Idaho	27.06	687.3	29.90	759.4	42	5.6	67	w.	3	1.3		0	4 s		w.	0.07	1.8	fair	J. Kenealy.
Boston, Massachusetts	30.15	765.8	30.31	769.9	44.0	6.7	93	ne.	19	8.5			10 s		ne.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.03	762.7	30.07	763.8	72.0	22.2	94	ne.	4	1.8			10 s		ne.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.24	742.7	29.98	761.5	43	0.1	90	sw.	28	12.5			10 s		sw.	0.10	2.5	cloudy	W. Finn.
Buford, Fort, Dakota	28.18	715.8	30.16	766.1	33	0.6	81	n.	8	3.6			10 s			0	0	cloudy	F. A. Mellen.
Burlington, Vermont	29.92	760.0	30.21	767.3	51.0	10.6	66	s.	11	4.9			10 s		w.	inap.	inap.	cloudy	D. N. Farnell.
Cairo, Illinois	29.88	758.9	30.28	769.1	54.1	12.3	70	n.	13	5.8		0	0			0.01	0.3	clear	W. H. Ray.
Cape Henry, Virginia	30.12	765.0	30.14	765.5	52	11.1	100	ne.	10	4.5			fg			0	0	dense fog	A. K. Alderson.
Cape May, New Jersey	30.14	765.5	30.17	766.3	48.0	8.9	93	ne.	14	6.3			fg.			0	0	dense fog	W. E. Smith.
Cape Mendocino, California	29.13	739.9	29.81	757.2	48	8.9	71	ne.			2	7 k	0	ne.		0.07	1.8	fair	J. J. McLean.
Cedar Keys, Florida	30.03	762.7	30.05	763.3	72	22.2	76	n.	2	0.9		0	7 s			0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.01	762.2	30.06	763.5	68.0	20.0	78	e.	3	1.3		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.22	742.2	30.06	763.5	65.0	18.3	78	s.	1	0.4		0	5 s		sw.	0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.12	765.0	66.0	18.9	73	nw.	4	1.8			10 ks		sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.07	611.4	29.94	760.5	37.6	3.1	69	w.	1	0.4		10 cs	0	w.		0	0	cloudy	E. McGovern.
Chicago, Illinois	29.41	747.0	30.11	764.8	45.9	7.7	78	w.	6	2.7			10 ks		w.	0.49	12.4	cloudy	John Laurens.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	49	9.4	100	ne.	11	4.9			fg.			inap.	inap.	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.51	749.5	30.16	766.1	55.0	12.8	80	nw.	9	4.0			10 s			0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.35	745.5	30.08	764.0	49.7	8.2	88	w.	11	4.9			10 s		w.	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.37	720.6	30.16	766.1	51	10.0	86	n.	2	0.9		0	0			0.22	5.6	clear	T. J. Kenan.
Columbus, Ohio	29.25	742.9	30.09	764.3	54	12.2	74	w.	15	6.7			10 s		sw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.24	717.3	30.14	765.5	53.0	11.7	86	ne.	3	1.3		6 cs	0			0.01	0.3	fair	J. McGlone.
Davenport, Iowa	29.52	749.8	30.16	766.1	40	7.8	77	w.	8	3.6		0	9 ks		nw.	0.38	9.7	cloudy	R. R. Martin.
Davis, Fort, Texas	25.32	643.1	30.04	763.0	59	15.0	54	s.	2	0.9		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.16	715.3	29.91	759.7	45	7.2	76	s.	4	1.8		9 k	0	sw.		0.28	7.1	cloudy	D. Moore.
Deadwood, Dakota	25.37	644.4	29.89	759.2	44	6.7	71	ne.	6	2.7		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del	30.15	765.8	30.17	766.3	47	8.3	100	ne.	16	7.2			fg.			inap.	inap.	dense fog	T. S. Townsend.
Denver, Colorado	24.77	629.1	29.93	760.2	42.5	5.8	71	s.	6	2.7		5 cs	0			0	0	fair	F. M. Neal.
Des Moines, Iowa	29.35	745.5	30.24	768.1	40	4.4	73	n.	4	1.8		0	0			0.01	0.3	clear	F. W. Conrad.
Detroit, Michigan	29.32	744.7	30.02	762.5	40.0	7.8	83	w.	14	6.3			10 s			0.07	1.8	cloudy	E. R. Brace.
Dodge City, Kansas	27.59	700.8	30.14	765.5	48	8.9	71	calm	0	0		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.43	747.5	30.13	765.3	44.3	6.8	80	w.	6	2.7			10 s		w.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.32	744.7	30.07	763.8	45	7.2	76	w.	20	8.9			10 s		w.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.35	745.5	30.15	765.8	64.0	17.8	93	nw.	2	0.9		0	0			0.79	20.1	clear	F. Belford.
Eagle Rock, Idaho	25.14	638.5	29.82	757.4	40	4.4	67	sw.	12	5.4		6 cs	0	sw.		0	0	fair	H. R. Boynton.
Eastport, Maine	30.35	770.9	30.42	772.7	38.0	3.3	94	e.	10	4.5			fg.		e.	0	0	light fog	D. C. Murphy.
Elliott, Fort, Texas	27.45	697.2	30.15	765.8	45	7.2	63	s.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.36	669.5	30.00	762.0	63.0	17.2	36	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.33	745.0	30.05	763.3	48	8.9	86	sw.	18	8.0			10 s		w.	0.09	2.3	cloudy	C. A. Shaw.
Escanaba, Michigan	29.34	745.2	30.00	762.0	38.0	3.3	89	w.	5	2.2		0	9 s		nw.	0.11	2.8	cloudy	George Heathcote.
Galveston, Texas	30.11	764.8	30.15	765.8	65	18.3	93	ne.	13	5.8		3 cs	5 ks		ne.	1.37	34.8	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.38	746.2	30.04	763.0	41.0	5.0	92	sw.	9	4.0			10 s		sw.	0.44	11.2	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.25	641.3	29.86	758.4	55	12.8	40	e.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.07	763.8	30.09	764.3	59	15.0	100	n.	18	8.0			10s;fg		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.79	655.1	29.96	761.0	31	— 0.6	71	nw.	8	3.6			10 n		w.	0.19	4.8	cloudy	N. C. Smith.
Huron, Dakota	28.80	731.5	30.15	765.8	35.5	1.9	70	w.	3	3.1		4 cs	0	w.		0.05	1.3	fair	S. W. Glenn.
Indianapolis, Indiana	29.35	745.5	30.14	765.5	49.0	9.4	77	nw.	8	3.6			10 s		nw.	0.21	5.6	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.10	764.5	30.13	765.3	69.2	20.7	93	ne.	19	8.5		7 cs	0	nw.		1.43	36.3	fair	I. A. Reed.
Jacksboro, Texas	29.04	737.6	30.19	766.8	50	10.0	52	n.	1	0.4		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	30.02	762.5	30.06	763.5	70	21.1	78	calm	0	0		5 cs	0	w.		0	0	fair	J. W. Smith.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.53	699.2	29.98	761.5	42	5.6	76	calm	0	0	.....	8 k	0	n.	.....	0	0	cloudy	W. B. Lamar.
Keokuk, Iowa	29.56	750.8	30.22	767.6	46.0	7.8	77	w	6	2.7	.....	0	0	.....	.....	0.53	13.5	clear	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	77.0	25.0	64	calm	0	0	.....	3 c	3 ks	w.	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.11	764.8	30.13	765.3	53	11.7	100	ne.	12	5.4	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	H. Mc P. Baldwin
Knoxville, Tennessee	29.07	738.1	30.09	764.3	64	17.8	79	sw.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.36	745.7	30.12	765.0	45	7.2	76	w.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.40	746.7	30.28	769.1	42	5.6	74	calm	0	0	.....	5 cs	0	.....	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.05	737.9	29.89	759.2	51.0	10.6	80	se.	2	0.9	.....	.....	10 s	.....	se.	0.20	5.1	cloudy	W. Bell.
Little Rock, Arkansas	29.87	758.7	30.18	766.6	61	16.1	78	n.	10	4.5	.....	6 k	0	n.	.....	0.01	0.3	fair	W. U. Simons.
Los Angeles, California	29.60	751.8	30.00	762.0	54	12.2	80	w.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.59	751.6	30.14	765.5	52.5	11.4	86	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	L. M. Dey.
Lynchburg, Virginia	29.40	746.7	30.08	764.0	68.5	20.3	61	e.	3	1.3	.....	3 c	0	e.	.....	0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.25	742.9	29.90	759.4	36.9	2.7	82	w	16	7.2	.....	.....	10 s	.....	w.	0.78	19.8	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.06	763.5	30.07	763.8	62.0	16.7	100	n.	10	4.5	.....	.....	10 s	.....	n.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.63	651.0	30.04	763.0	25	— 3.9	53	e.	6	2.7	.....	.....	10 n	.....	e.	0.05	1.3	light snow	F. Burke.
Marquette, Michigan	29.25	742.9	29.97	761.2	42	5.6	51	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	E. H. Thompson.
Memphis, Tennessee	29.86	758.4	30.19	766.8	61	16.1	84	n.	6	2.7	.....	0	8 s	.....	n.	0.07	1.8	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.32	744.7	30.06	763.5	46	7.8	69	nw.	14	6.3	.....	.....	10 ks	.....	nw.	0.53	13.5	cloudy	W. Line.
Missoula, Fort, Montana	26.65	676.9	29.95	760.7	38	3.3	65	nw.	12	5.4	.....	.....	9 s	.....	.....	0.04	1.0	cloudy	J. H. Young.
Mobile, Alabama	30.05	763.3	30.09	764 3	68	20.0	84	ne.	3	1.3	.....	5 cs	3 ks	sw.	.....	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.83	757.7	30.06	763.5	68	20.0	72	calm	0	0	.....	hz.	0	.....	.....	0	0	dense haze	J. B. McLaughlin.
Moorhead, Minnesota	29.12	739.6	30.10	764.5	39	3.9	82	sw.	5	2.2	.....	0	0	.....	.....	0.03	0.8	clear	H. Bessaut.
Mt. Washington, N. H	23.97	608.8	30.15	765.8	29.0	— 1.7	92	s.	25	11.2	.....	5 k	fg.	sw.	s.	0.05	1.3	fair	S. W. Beall.
Nashville, Tennessee	29.61	752.1	30.18	766.6	60.0	15.6	81	n.	16	7.2	.....	.....	10 ks	.....	n.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.12	765.0	30.24	768.1	49	9.4	86	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.22	767.6	30.27	768.8	48	8.9	86	e.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	70.5	21.4	87	n.	6	2.7	.....	1 cs	8 ks	w.	ne.	0.55	14.0	cloudy	H. C. Smyth.
New York, New York	30.06	763.5	30.24	768.1	47	8.3	96	e.	10	4.5	.....	.....	10s;fg	.....	e.	0.04	1.0	cloudy	G. E. Franklin.
Norfolk, Virginia	30.10	764.5	30.13	765.3	57	13.9	86	ne.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	Wm. Davis.
North Platte, Nebraska	27.19	690.6	30.06	763.5	41.6	5.3	81	e.	10	4.5	.....	0	5 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.91	759.7	29.95	760.7	43.0	6.1	93	s.	1	0.4	.....	.....	10 n	.....	.....	0.42	10.7	light rain	J. Dascomb.
Omaha, Nebraska	29.09	738.9	30.25	768.3	40.2	4.6	90	sw.	4	1.8	.....	10 c	fg.	.....	.....	0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	29.56	750.8	29.58	751.3	15.2	— 9.3	100	ese.	17	7.6	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.66	753.4	29.99	761.7	54.0	12.2	86	s.	17	7.6	.....	.....	10 n	.....	sw.	0.04	1.0	thund'r st'm	J. G. Linsley.
Palestine, Texas	29.65	753.1	30.20	767.1	65.0	18.3	92	ne.	5	2.2	.....	.....	9 ks	.....	e.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.04	763.0	30.07	763.8	67.8	19.9	85	nw.	6	2.7	.....	.....	10 s	.....	w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.11	764.8	30.21	767.3	48	8.9	96	e.	12	5.4	.....	.....	10s:fg	.....	e.	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.85	453.4	29.91	759.7	17	— 8.3	76	sw.	60	26.8	.....	9 cs	0	.....	.....	0	0	cloudy	H. Hall.
Pioche, Nevada	23.93	607.8	29.85	758.2	48.0	8.9	37	se.	5	2.2	.....	10 cs	0	.....	.....	0	0	cloudy	F. R. Day.
Pittsburg, Pennsylvania	29.23	742.4	30.03	762.7	65.0	18.3	68	w.	11	4.9	.....	.....	10 n	.....	w.	0.10	2.5	light rain	W. A. Reid.
Poplar River, Montana	27.97	710.4	30.09	764.3	.....	.....	.....	se.	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy	W. D. Maxwell.
Port Huron, Michigan	29.29	744.0	29.97	761.2	45.0	7.2	83	w.	16	7.2	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	M. H. Perry
Portland, Maine	30.31	769.9	30.36	771.1	45.5	7.5	86	e.	6	2.7	.....	.....	10s;fg	.....	.....	inap.	inap.	cloudy	W. W. Eichelberger
Portland, Oregon	29.87	758.7	29.94	760.5	47.8	8.8	86	calm	0	0	.....	.....	10 s	.....	s.	0.33	8.4	cloudy	M. L. Hearne.
Portsmouth, N. C	.....	.....	.....	.....	60	15.6	100	ne.	20	8.9	.....	.....	fg.	.....	.....	0	0	dense fog	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	29.85	758.2	36.8	2.7	50	s.	1	0.4	.....	2 c	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	30.23	767.8	30.26	768.6	45	7.2	83	e.	8	3.6	.....	.....	10s;hz	.....	e.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.01	762.2	30.02	762.5	70.5	21.4	82	e.	5	2.2	.....	9 c;ck	0	w.	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.52	749.8	29.87	758.7	47	8.3	93	n.	6	2.7	.....	0	5 ks	.....	s.	0.61	15.5	fair	J. R. Williams.
Rochester, New York	29.30	744.2	29.96	761.0	59	15.0	84	s.	16	7.2	.....	.....	10 n	.....	sw.	0.05	1.3	light rain	E. W. McGann.
Roseburg, Oregon	29.37	746.0	29.92	760.0	45.8	7.7	89	nw.	1	0.4	.....	.....	fg.	.....	.....	0.34	8.6	dense fog	J. J. Nanry.
Sacramento, California	29.72	754.9	29.80	756.9	55.0	12.8	93	se.	4	1.8	.....	.....	10 n	.....	.....	0.96	24.4	light rain	J. A. Barwick.
St. Louis, Missouri	29.66	753.4	30.25	768.3	48.0	8.9	93	nw.	8	3.6	.....	0	sk.	.....	.....	0.08	2.0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.58	751.3	29.62	752.3	35	1.7	100	s.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.26	743.2	30.10	764.5	44.5	6.9	76	w.	5	2.2	.....	9 k	0	nw.	.....	inap.	inap.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.20	741.7	30.06	763.5	34	1.1	89	nw.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.52	648.2	29.84	757.9	53	11.7	50	calm	0	0	.....	8 k	0	sw.	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.46	748.3	30.16	766.1	67	19.4	84	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Davis.
San Diego, California	29.89	759.2	29.96	761.0	54.8	12.7	77	ne.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.20	767.1	30.23	767.8	48.0	8.9	86	e.	24	10.7	.....	0	8 k	.....	e.	0	0	cloudy	B. A. Blundon.
Sanford, Florida	30.00	762.0	.....	.....	69	20.6	87	ne.	1	0.4	.....	7 c	0	w.	.....	0	0	fair	J. B. Marbury.
San Francisco, California	29.72	754.9	29.79	756.7	52	11.1	96	n.	7	3.1	.....	.....	10 n	.....	n.	1.23	31.2	heavy rain	N. Gorom.
Santa Fé, New Mexico	23.32	592.3	29.93	760.2	48	8.9	12	e.	9	4.0	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.99	761.7	30.08	764.0	68	20.0	78	s.	1	0.4	.....	3 c	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	20.47	672.3	30.07	763.8	28	— 2.2	88	ne	2	0.9	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.90	761.0	30.20	767.1	61.3	16.3	90	n.	3	1.3	.....	0	5 s	.....	n.	0.12	3.0	fair	L. A. Welsh.
Sill, Fort, Indian Territory	28.97	735.8	30.19	766.8	46	7.8	93	n.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.87	758.7	29.93	760.2	43	6.1	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.78	756.4	30.25	768.3	57.0	13.9	86	e.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.04	763.0	30.08	764.0	62	16.7	100	ne.	5	2.2	.....	.....	10s;fg	.....	ne.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.88	708.1	29.93	760.2	46	7.8	100	sw.	11	4.9	.....	.....	10 n	.....	.....	0.19	4.8	heavy rain	John F. Hemenway.
Springfield, Illinois	29.54	750.3	30.21	767.3	50	10.0	72	w.	6	2.7	.....	0	6 s	.....	nw.	0.37	9.4	fair	T. B. Jennings.
Springfield, Missouri	28.81	731.8	30.23	767.8	47.0	8.3	93	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Starkville, Miss	29.07	753.6	30.14	765 5	66.5	19.2	90	n.	3	1.3	.....	.....	10 s	.....	n.	0	0	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.25	717.5	30.08	764.0	36	2.2	82	ne.	4	1.8	.....	5 ck	0	nw.	.....	0	0	fair	A. Schneider.
Stockton, Fort, Texas	27.10	689.3	30.11	764.8	60	15.6	78	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.29	769.4	30.34	770.6	43.5	6.4	93	ne.	16	7.2	.....	.....	10 s	.....	ne.	0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.25	692.1	29.92	760.0	44	6.7	41	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.38	746.2	30.06	763.5	49	9.4	77	w.	12	5.4	.....	.....	10 s	.....	w.	0.05	1.3	cloudy	A. Buell.
Tucson, Arizona	27.54	699.5	29.88	758.9	49	9.4	46	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.58	751.3	29.60	751.8	37	2.8	82	s.	4	1.8	.....	.....	10 n	.....	.....	0.21	5.3	light rain	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	43	6.1	60	se.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.88	758.9	30.14	765.5	62.6	17.0	94	n.	3	1.3	.....	5 k	fg.	w.	.....	0.42	10.7	fair	James Kenealy.
Visalia, California	29.49	749.0	29.80	758.4	54.0	12.2	94	s.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.44	620.8	29.92	760.0	34.0	1.1	92	sw.	4	1.8	.....	3 k	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C	30.07	763.8	30.18	766.6	52.6	11.4	100	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.02	0.5	light rain	T. B. Harrison.
West Las Animas, Colorado	26.19	665.2	30.04	763.0	42	5.6	34	nw.	3	1.3	.....	0	8 s	.....	nw.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.50	749.3	30.10	764.5	58	14.4	74	ne.	2	0.9	.....	.....	10 ks	.....	sw.	0.71	18.0	threatening	B. F. Hough.
Wilmington, N. Carolina	30.03	762.7	30.08	764.0	66	18.9	90	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.48	647.2	29.83	757.7	45	7.2	75	ne.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	J. Grover.
Yankton, Dakota	28.87	733.3	30.15	765.8	34	1.1	60	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.68	753.9	29.84	757.9	56.8	13.8	64	calm	0	0	.....	1 cs	0	nw.	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	55.5	13.1	77	ne.	1	0.4	.....	6 c	1 s	.....	.....	0.54	13.7	fair	Joaquin Gomez.
Kingston, Jamaica, W. I	.....	.....	30.01	762.2	.....	.....	73	n.	1	0.4	.....	0	1 s	.....	e.	0.07	1.8	clear	Robert Johnston.
Paramaribo, S. A	30.00	762.0	30.00	762.0	77	25.0	91	e.	.....	.....	3	5 ck	5 k	e.	.....	0.070	1.8	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.42	747.3	29.98	761.5	77	25.0	94	calm	.....	.....	0	.....	10 ks	.....	n.	0.20	5.1	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	80	26.7	97	ne.	.....	.....	1	2 cs	.....	ne.	.....	0	0	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Walloe.
Santiago de Cuba, W. I	29.90	761.0	29.98	761.0	78	25.6	76	nw.	2	0.9	.....	0	1 s	.....	ne.	0.14	3.6	.....	R. Mason.
York Factory, B. A	30.00	763.5	30.12	765.0	30.5	— 0.8	95	n.	9	4.0	.....	3 k	2 s	n.	n.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, Malta, Mediterranean	29.72	754.9	74	23.3	48	wsw.			3		1	wsw.						blue sky.
H. M. S. Dido, Barbadoes, W. I.	30.02	762 5	80	26.7		ene.			3		7	wsw.				1	se.	d. clouds.
H. M. S. Flamingo, N 22° 56′ W. 71° 30′	29.99	761.7	81	27.2	100	ne.			1		1	e.				2	con.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.85	758.2	71	21.7	85	ene.			2		0							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.98	761.5	61	16.1	71	wsw.			4–6		4							squally.
H. M. S. Rocket, N. 34° 30′, W. 42° 40′	30.33	770.4	63	17.2	72	nnw.			1		4					4	nnw.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	30.44	773.2	45	7.2	84	calm			0		1							blue sky.
U. S. Navy Yard, Pensacola, Fla.	30.05	763.3	69	20.6	90	ne.	2	0.9			10		ne.	0	0			cloudy.
U. S. Navy Yard, Portsmouth, N. H*	30.27	768.8	46	7.8	92	ne.	12	5.4			10		ne.	0	0			cloudy.
U. S. S. Alliance, N. 32° 02′, W. 77° 37′	30.04	763.0	76	24.4	86	nne.			3		8			0	0	long		cloudy.
U. S. S. Colorado, New York, N Y	30.36	771.1	40	4.4	91	e.	3	1.3			10			0.03	0.8			cloudy.
U. S. S. Franklin, Norfolk, Va.	30.13	765.3	57	13.9	94	ene.	1	0.4			10			0.02	0.5			foggy.
U. S. S. Jamestown, N. 25° 34′, W. 79° 45′	29.94	760.5	78	25.6	65	nne.			2		8		nne.			sm'h		cloudy.
U. S. S. Kearsarge, N. 34° 52′, W. 75° 06′	30.02	762.5	73	22.8	95	nne.			4		10		nne.			long	ne.	cloudy.
U. S. S. Lancaster, Gravesend, Eng.	29.80	756.9	55	12.8	81	ese.			1		2					sm'h		fair.
U. S. S. Michigan, Cleveland, Ohio	30.03	762.7	52	11.1	93	nw.			2		10		nw.					cloudy.
U. S. S. Minnesota, New York, N. Y.	30.25	768.3	47	8.3	100	ene.			1		10							foggy.
U. S. S. New Hampshire, Newport, R. I.	30.25	768.3	47	8.3	100	ne.			3		10		calm			sm'h		drizzling.
U. S. S. Portsmouth, Hampton Roads, Va.	30.18	766.6	54	12.2	100	e.			2							sm'h		foggy.
U. S. S. Powhatan, N. 23° 38′, W. 83° 49′	29.99	761.7	79	26.1	91	se.			2		8					sm'h	e.	cloudy.
U. S. S. Quinnebaug, Monrovia, Liberia, Africa	29.98	761.5	81	27.2	91	w.			2		8		w.			sm'h		fair.
U. S. S. Saratoga, N. 25° 21′, W. 56° 43′	30.23	767.8	75	23.9	81	ese.			4		5?		ese.	0	0	sm'h	ese.	clear?
U. S. S. St. Louis, League Island, Pa.	30.24	768.1	46	7.8	96	ne.	10	4.5			10			0	0			cloudy.
U. S. S. Swatara, Aspinwall, U. S. C †	29.90	759.4	82	27.8	87	nne.			4		5		nne.	sli't	sli't	long	n.	fair.
U. S. S. Tennessee, Fort Monroe, Va.	30.16	766.1	59	15.0	94	ene.	8	3.6			10			0	0			foggy.
U. S. S. Vandalia, Norfolk, Va.	30.12	765.0	57	13.9	94	nne.			1		10							misty.
U. S. S. Wabash, Boston, Mass.	30.32	770.1	45	7.2	84	ne.	6	2.7			10		ne.					cloudy.
U. S. S. Yantic, N. 34° 33′, W. 75° 10′	30.05	763.3	69	20.6	100	nne.			5		10					mod.	ne.	cloudy.
Commewyne, N. 29° 13′, W. 54° 20′	30.25	768 3	74	23.3	72	ene.			3		4							d. clouds.
St. Kilda, Demerara, British Guiana	29.91	759.7	80.3	26.8	85	ne.			2		6							threatening.
S. S. British Crown, N. 50° 25′, W. 22° 33′†	30.20	767.1	54	12.2		n.			2		6		n.	0	0	sm'h		fine.
S. S. Illinois, N. 39° 00′, W. 59° 42′			64	17.8		ne.			4		10		ne.			mod.	ne.	raining.
S. S. Lord Gough, N. 42° 53′, W. 41° 07′	30.12	765.0	56	13.3		ssw.			3		10		ssw.	0	0	long	ne.	cloudy.
S. S. Ohio, N. 47° 28′, W. 24° 22′†	30.21	767.3	52	11.1	86	ene.			5		4		ene.	4 h'r	4 h'r	mod.	ne.	clear.
S. S Pennsylvania, N. 38° 56′, W. 66° 34′ †	30.18	766.0	70	21.1		e.			2		4		ne.			mod.	n.	fine.
S. S. Circassian, N. 48° 00′, W. 60° 30′	30.38	771.6	34	1.1	90	w.			3		3		wsw.	0	0			d. clouds.
S. S. Grecian, Quebec, Quebec	30.33	770.4	45	7.2	76	ene.			5		10		e.	0	0			cloudy.
S. S. Nova Scotian, N. 51° 19′, W. 14° 00′	30.19	766.8	50	10.0		ne.			4		10		nne.			sm'h		
S. S. Polynesian, N 55° 07′ W. 13° 34′	30.24	768.1	56	13.3		nnw.			4		8		ne.	0	0	sm'h		fair.
S. S. Scandinavian, Indian Cove, St. Lawrence river*	30.14	765.5	40	4.4		ne.			2		5		ne.	0	0			d. clouds.
S. S. Antillas, N. 25° 50′, W. 74° 50′						n.			2		1		n.			mod.	n.	fine.
S. S. Jason, N. 39° 22′, W. 63° 39′			69.8	21.0		s.			6		8 n					6-7	sse.	raining.
S. S. Alvo, N. 17° 51′, W. 69° 00′	30.01	762.2	79	26.1		ese.			4–5		8 ks		se.	0	0	small	s.	cloudy.
S. S. Alene, Greytown, Nicaragua†	30.02	762.5	83	28.3		calm			0		0			0	0	chop		fine.
S. S. Ailsa, Jacmel, Hayti, W. I†	29.92	760.0	85	29.4		e			2									fine.
S. S. Assyria, N. 37° 17′, W. 10° 53′	29.97	761.2	58.5	14.7		wnw.			4		5		wnw.	½ h'r	½ h'r	mod.	wnw.	light squalls
S. S. Bolivia, N. 40° 39′, W. 63° 27′*†	30.36	771.1	56	13.3		ene.			4		1		ene.	0	0	r'gh	e.	clear.
S. S. Dorian, N. 34° 02′, W. 45° 20′	30.34	770.6	63	17.2		calm			0		0			0	0	long	n.	clear.
S. S. Furnesia, Liverpool, Eng †	29.98	761.5				wsw.			1		4		w.	0	0			fair.
S. S. Elysia, N. 40° 10′, W. 31° 34′	29.97	761.2	61.1	16.2	89	nne.			4		7		n.	0	0	mod.	nne.	cloudy.
S. S. Llandaff City, Bristol, Eng.						ne.			5		8		ene.	sh'rs	sh'rs	mod.	ne.	cloudy.
S. S. Pavonia, N. 40° 20′, W. 58° 11′	30.21	767.3	58	14.4	76	ne.			6		6		ne.	0	0	mod.	ne.	fine.
S. S. Scythia, N. 42° 46′, W. 49° 00′	30.12	765.0	49	9.4	93	nw.			2		1		calm	5 h'r	5 h'r	mod.	w.	clear.
S. S. Canada, N. 41° 14′, W. 50° 31′			48.2	9		n.			3	ck	0	n.		0	0	r'gh	nne.	hazy.
S. S. Pereire, N. 49° 45′ W. 9° 20′ †	29.93	760.3	48.2	9		ene.			5		2		ene.	light	light	r'gh	ene.	clear.
S. S. Abyssinia, N. 43° 15′, W. 43° 10′	30.00	762.0	46	7.8	100	nw.			6		8		nw.	0	0	mod.	nw.	squally.
S. S. Bohemia, N. 53° 33′, E. 4° 35′									4					0	0		e.	fair.
S. S. Gellert, New York, N. Y.			53	11.7	73	e.			2		10			2 h'r	2 h'r			foggy.
S. S. Silesia, N. 48° 20′, W. 29° 20′	30.26	768.6	56	13.3		e.			3		5		ne.	0	0	3	ne.	fair.
S. S. Westphalia, N. 42° 22′, W. 52° 28′	30.26	768.6	48	8.9	?	nnw.			4		1		w.	7 h'r	7 h'r	mod.	var.	clear.
S. S. City of Berlin, N. 50° 02′, W. 24° 30′	30.24	768.1	55	12.8	74	ene.			2		8		ne.	0	0	sli't	ne.	fine.
S. S. City of Paris, N. 40° 25′, W. 68° 15′						e.			2		2		se.	0	0	sm'h	e.	clear.
S. S. Bulgarian, N. 42° 38′, W. 66° 03′ *	30.36	771.1				nne.			1									
S. S. Colorado, Key West, Fla †	30.05	763.3	78	25.6		ne.			2		4		ne.	0	0			fair.
S. S. Rio Grande, N. 28° 42′, W. 80° 10′*†	30.06	763.5	70	24.4		n.			1		2		se.	0	0			clear.
S. S. Chalmette, New York, N. Y †	30.26	768.6	50	10.0		nne.			3		10			1 h'r	1 h'r			cloudy.
S. S. New York, N. 31° 00′, W. 77° 00′ †*	30.04	763.0	74	23.3		nne.			3		2		ne			mod.	n.	clear.
S. S. Alleghany, Cape Henry, Va †	30.11	764.8	52	11.1		ne.			2		0			0	0			foggy.
S. S. Archimede, New York Bay, N. Y †	30.22	767.6	58	14.4	64	ne.			2		8		ne.	0	0			cloudy.
S. S. City of Washington, Havana, Cuba†	30.12	765.0	80	26.7		var.			1		2		ene.	0	0	sm'h		clear.
S. S. Denmark, N. 40° 17′, W. 73° 51′†	30.14	765 5	44	6.7		e.			5		8		e.	3 h'r	3 h'r	sli't	e.	light fog.
S. S Egypt, New York, N. Y * †	30.26	768.6				ne.			3		10		ne.	0	0	mod.	nne.	threatening.
S. S. England, N. 40° 41′, W. 66° 02′	30.22	767.6				ne.			4		0			0	0	sm'h		clear.
S. S. Helvetia, N. 50° 21′, W. 22° 36′	30.25	768.3	58	14.4	94	nnw.			4		8		n.	1 h'r	1 h'r	sm'h	ne.	threatening.
S. S. Holland, N 41° 08′, W. 48° 03′			46	7.8		nw.			4		10			0	0	mod.	wsw.	hazy.
S. S. America, N. 46° 12′ W. 24° 50′*	30.18	766.6	58.0	14.4	88	ene.			5		4		ene.	1 h'r	1 h'r	r'gh	ene.	showery.
S. S. Donau, N. 47° 29′, W. 32° 56′	30.26	768.6				e.			3		5		sw.	0	0	mod.	e.	fair.
S. S. Elbe, N. 48° 13′, W. 18° 08′	30.15	765.8	55	12.8	71	nne.			5		3		ne.	0	0	long	nne.	clear
S. S. Habsburg, N. 49° 30′, W. 7° 25′	29.90	761.0				ne.			3		5		ne.	1 h'r	1 h'r	mod.	ne.	fair.
S. S. Hohenstaufen, N. 37° 23′, W. 71° 44′	30.05	763.3				ene.			4		3		ene.			mod.	ene.	hazy.
S. S. Hermann, N. 40° 51′, W. 67° 15′	30.28	769 1	48	8.9	?	e.			3		8		e.	4 h'r	4 h'r	mod.	e.	cloudy.
S. S. Main, N. 42° 00′, W. 56° 36′	30.27	768.8	48	8.9		nne.			5		7		e.	5 h'r	5 h'r	sm'h		fair.
S. S. Oder, N. 45° 21′ W. 28° 37′	30.14	765.5	57.2	14.0		ene.			4		7		ene.	0	0	mod.	ene.	fair.
S. S. Ohio, N. 40° 00′, W. 69° 15′	30.21	767.3				ene.			4					0	0	mod.	ene.	foggy.
S. S. Weser, N. 49° 17′ W. 20° 58′	30.23	767.8				ene.			3		8		ene.	¼ h'r	¼ h'r	mod.	ene.	cloudy.
S. S. Orinoco, N. 37° 45′, W. 70° 45′			74	23.3		ssw.			6		5		ssw.	5 h'r	5 h'r	h'vy	var.	squally.
S. S. Muriel, Trinidad, W. I.	29.95	760.7	83	28.3		ene.			2		0			0	0	sm'h		clear.
S. S. City of Augusta, Savannah, Ga †	30.19	766.8				nnw.			4		6		nne.	0	0			fair.
S. S. Belgenland, N. 44° 35′, W. 35° 20′ †	30.21	767.6	58	14.4	82	ene.			4		4		e.	0	0	mod.	e.	fair.
S. S. Nederland, N. 44° 42′, W. 36° 54′			57	13.9	87	sse.			3		5		s.	0	0	mod.	e.	fair.
S. S. Rhynland, Antwerp, Belgium	29.69	754.1	64	17.8	30	n.			2		3		ne.	0	0			clear.
S. S. Pennland, Antwerp, Belgium			67	19.4	79	n.			4		3		ne.					clear.
S. S. Waesland, Jersey City, N. J	30.25	768.3	51	10.6		e.			3		10		e.	0.05	1.3			overcast.
S. S. Zeeland, N. 49° 12′, W. 16° 00′*†	30.10	764.5	50	10.0		ne.			5		5		ne.	0	0	long	ne.	fair.
S. S. P. Caland, Rotterdam, Holland	29.76	755.9	58.3	14.6	82	ne.			3		4		ne.					fair.
S. S. Leerdam, N. 47° 42′ W. 37° 34′			57.5	14.2	94	sse.			5		10		w.			long	nw.	cloudy.
S. S. Caracas, Puerto Cabello, Venezuela †	30.02	762.5	79.5	26.4	91	s.			1		8		ene.	½ h'r	½ h'r	mod.	ne.	cloudy.
S. S. Claudius, N. 35° 40′, W. 74° 50′†	30.17	766.3	62.5	16.9	98	ne.			3		10			rain	rain	r'gh	ne.	misty.
S. S. State of Florida, Larne, Ireland	30.14	765.5	45	7.2		n.			2		10		calm	8 h'r	8 h'r	sm'h		overcast.
S. S. State of Nebraska, N. 54° 18′, W. 15° 15′*†	30.15	765.8	51	10.6		ne.			6		5		ne.	0	0	sm'h		fair.
S. S. State of Nevada, N. 40° 35′ W. 69° 08′ †	30.26	768.6	44	6.7		e.			4		fg.			0	0	h'vy	e.	foggy.
S. S. State of Alabama, Staten Island, N. Y*	30.09	764.3	47	8.3		e.			1		10		e.	0	0	sm'h		cloudy.
S. S. Lepanto, N. 37° 03′ E. 0° 38′			60	15.6		wsw.			6		7		w.	0	0	h'vy	w.	squally.
S. S. Otranto, N. 48° 38′, W. 31° 01′	30.36	771.1	62	16.7		e.			6		7		ese.	0	0	mod.	se	fair.
S. S. Salerno, N. 36° 44′, E. 12° 47′†	29.67	753.6	61	16.1		wsw.			6		2		w.	0	0	mod.	wsw.	clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Dominion, N. 47° 00′ W. 56° 11′*†	30.29	769.4	37	2.8		wnw.			3		0					sm'h	wnw.	clear.
S. S. Toronto, N. 44° 20′, W. 39° 35′	30.12	765.0	59	15.0		e.			3		3		ese.	0	0	sm'h	n.	clear
S. S. Oregon, N. 55° 29′, W. 14° 45′	30.13	765.3	50	10.0		nnw.			3		6		nnw.			mod.	nnw.	fair.
S. S. Lake Huron, N. 48° 46′, W. 61° 01′	30.36	771.1	28	— 2.2		wnw.			4		0			0	0	sm'h		clear.
S. S. Lake Manitoba, N. 47° 50′, W. 35° 58′	30.22	767.6	56	13.3		se.			4		2		se.	0	0	mod.	sse.	clear.
S. S. Daniel Steinmann, New York, N. Y†	30.24	768.1	54	12.2		ne.			2		0			0	0			misty.
S. S. Norman, Boston, Mass	30.17	766.3				ne.			5		10		ne.	0	0			cloudy.
S. S. Saxon, Philadelphia, Pa†	30.22	767.6				ne.			4		10			light	light			rain & fog.
S. S. Celtic, N. 51° 03′ W. 15° 28′†	30.21	767.3	57	13.9		ne.			5		2		ne.	0	0	sm'h		clear.
S. S. Antonio Lopez, Havana, Cuba, W. I	30.06	763.5	77	25.0	80	calm			0		3			0	0			hazy.
Schr. Abbie H Gheen, New York, N. Y†	30.25	768.3	52	11.1		ne.			3					0	0			cloudy.
Bg. Abbie Clifford, N. 18° 09′, W. 65° 44′†.	30.05	763.3	80	26.7		ese.			3		3		ese.	0	0			clear.
Bk. Aquidneck, N. 22° 29′, W. 62° 54′						var.			3		8		var.	0	0	light	ese.	clear.
Bk. Alpha, N. 41° 10′, W. 68° 00′*†	30.22	767.6	44	6.7		ese.			5		4		e.	0	0	sm'h		cloudy.
Bg. Alcira, N. 29° 41′, W. 63° 48′	30.15	765.8	75	23.9		sse.			4		1		sse.	0	0	r'gh	se.	hazy.
Bk. Adelaide, N. 31° 53′, W. 55° 06′			73	22.8		sse.			1		1		se.	0	0	mod.	e.	hazy.
Schr. Annie R. Lewis, N. 33° 51′, W. 70° 05′†	29.98	761.5	74	23.3		ese.			1		3		se.	6 h'r	6 h'r	r'gh	se.	clear.
Schr. Authur Burton, Boston, Mass						ene.			1		10		e.	2 h'r	2 h'r			threatening
Bk. Aureola, N. 13° 09′, W. 61° 16′ †	29.90	759.4	89	31.7		ene.			5		3		ene.	12 h'r	12 h'r	sm'h		clear.
Bk. Achille F., N. 38° —′, W. 21° —′†	29.81	757.2	57	13.9	100	ese.			6		7		ese.	2 h'r	2 h'r			squally.
Bk. Alba, N. 61° 07′, W. 49° 21′*†	30.18	766.6	37.2	2.9		n.			2									
Bg. Annie R. Storer, N. 30° 45′, W. 70° 45′†	29.90	759.4				sw.			3		4		wsw.	2 h'r	2 h'r	sm'h	se.	squally.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.94	760.5	81	27.2		ene.			1		2		ene.	1 h'r	1 h'r			clear.
Bk. Champion. N. 21° 00′, W. 35° 09′†	30.20	767.1	72	22.2	80	e.			1		2		e.	0	0	sm'h		clear.
Bkt. C. S. Bushnell, N. 33° 34′, W. 51° 54′	30.28	769.1				wsw.			2		1		nw.	0	0	h'vy	ne	clear.
S. Cornelius, N. 48° 40′, W. 31° 30′†	30.20	767.1	53.4	11.9		ene.			5		4		ese.	0	0	cross	var.	fair.
Bk. Commerce, N. 32° 46′, W. 68° 56′			68	20.0		s.			3		2		s	10 h'r	10 h'r	long	s.	fair.
Bk. Childwall, N. 1° 00′, W. 30° 00′ *	29.87	758.7	82	27.8		e.			3		10		ne.	3 h'r	3 h'r	light	ne.	showery.
S. David Steward, Chesapeake Bay†	30.24	768.1				ene.			2		fg.			driz'l	driz'l			
S. S. D. J. Foley, Port Antonio, Jamaica, W. I*†	30.00	762.0	79	26.1	86	e.			2		2		e.	1 h'r	1 h'r			clear.
Bk. Don Justo, N. 35° 38′ W. 74° 55′						nne.			5		0			0	0	mod.	ene.	dense fog.
Schr. Edith R. Seward, N. 26° 52′, W. 70° 15†	30.00	762.0	77	25.0		sw.			1		2		wsw.	0	0	sm'h	w.	clear.
S. E. J. Spicer, Liverpool, Eng.*	29.95	760.7	47	8.3	85	e.			5		7		e	rai n	rain			fair.
U. S. Fish. Com. S. S. Fish Hawk, Quantico Creek, Va†	30.22	767.6	62	16.7	100	ne.			3		10		calm	0.03	0.8			foggy.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.07	763.8				e.			1					0	0			clear.
S. Festina Lente, N. 45° 32′, W. 57° 14	30.30	769.6	37	2.8		nw.			5		0			1 h'r	1 h'r			clear.
Bg. Gipsy Queen, Cardenas, Cuba, W. I*†	30.10	764.5							4									fair.
Bk. Godeffroy, N. 28° 43′, W. 69° 51′*	29.97	761.2	71.8	22.1	89	sw.			3–4		4		sw.	shr's	shr's	mod.	var.	fair.
Bg. Galeon, N. 21° 25′ W. 90° 00′ †	29.97	761.2	77	25.0		e.			2		0			0	0	sm'h	ne.	blue sky.
S. Hedwig, N. 37° 31′, W. 61° 29′	30.21	767.2	68.2	20.1	95	s.			1		10		s.	0	0	3	ese.	
Bk. Hattie G. McFarland, N. 33° 52′, W. 77° 00′*†	30.05	763.3	66	18.9		nne.			4		fg.			0	0	long	e.	
Bk. John H. Pearson, N. 33° 14′, W. 52° 23′						sw.			1				ne.	0	0	long	ne.	cloudy.
Schr. Isabel Alberto, N. 32° 00′, W. 78° 00′†	30.00	762.0				n.			3		3		n.	light	light	high	ne.	fair.
Bk. Cato, Setubal, Portugal*†	29.95	760.7				sw.			2		2		sw.	0	0			clear.
Schr. John L. Thomas, N. 28° 30′, W. 79° 48′ *†	30.12	765.0				calm			0		2			0	0	h'vy	n.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	29.98	761.5				nne.			1		1			0	0			clear.
Schr. Jennie N. Huddell, N. 33° 05′ W. 76° 35′†	30.08	764.0	75	23.9	86	nne.			5		5		ne.	0	0	h'vy	ene.	fair.
Bkt. Josephine, N. 2° 33′, W. 41° 53′†	29.95	760.7	83	28.3	75	ne.			4		8		ene.	5 h'r	5 h'r	mod.	ne.	fair.
Schr. Leonessa, N. 32° 48′, W. 76° 30′†	30.11	764.8				nne.			2		8		nne.	4 h'r	4 h'r	cross		rainy.
Bg. L. & W. Armstrong, St. Juan, Porto Rico, W. I*†	30.06	763.5				sw.			1		1		ene.	0	0	sm'h		clear.
Light House Tender, Laurel, St. George's Sound, Fla†	30.10	764.5	70	21.1		nne.			1		6		nne.	0	0			fair.
Bg. Lilian, N. 25° 40′, W. 58° 20′†	30.14	765.5	74	23.3		se.			4		8		sse.	1 h'r	1 h'r	mod.	se.	rainy.
Bk. Louise Adelaide, N. 23° 35′, W. 81° 00′†	29.97	761.2	82	27.8		ene.			1		2		ne.	0	0	sm'h	n.	fair.
S. S. Madrid, N. 37° 36′, E. 9° 03′ †	29.70	754.4	56	13.3	81	wnw.			6		5		wnw.	14 h'r	14 h'r	r'g'h	wnw.	showery.
Schr. Minnie A. Bonsall, Brunswick, Ga†	30.08	764.0	76	24.4		wnw.			1		0			0	0			clear.
Bkt. Kryohth, N. 53° 18′, W. 22° 17′ *†	30.30	769.6				nne.			3		2		nne.	0	0	sm'h		clear.
S. Mt. Washington. N. 27° 35′, W. 37° 15′*†	30.29	769.4	74	23.3	68	ne.			5		7		ene.	2 h'r	2 h'r	long	n.	cloudy.
Bgt. Myrtle, Clementsport, N. S *†	30.50	774.7				calm			0		fg.			0	0			foggy.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†	29.97	761.2							2		4		e.	0	0			clear.
Bg. O. C. Clary, N. 31° 23′, W. 71° 07′*†	29.92	760.0	70	21.1		calm			0		5		wsw.			r'gh	nnw	fair.
S. S. Raleigh, N. 29° 50′, W. 74° 00′†	30.01	762.2	70	21.1		calm			0		4		var.			sm'h		clear.
S. Rudolph, N. 45° 36′, W. 27° 43′			54.0	12.2		e.			4		8		var.	0	0	cross	var.	cloudy.
Bk. Rebus, N. 42° 07′, W. 43° 43′	29.92	760.0	61	16.1		sw.			6		9		sw.	6 h'r	6 h'r	r'gh	ssw.	heavy rain.
Bg. Rising Sun, N. 27° 40′, W. 69° 28′*†	29.90	759.4	80	26.7		w.			4		5		w.	0	0	mod.	w.	
Bk. Rosalie. N. 26° 07′, W. 60° 48′*†	30.17	766.3				se.			4				se.	0	0	light	ese.	clear.
S. Salisbury, N. 45° 03′, W. 16° 02′*	30.04	762.9	51.8	11.0	74	nne.			5		6		nne.	0	0	long	nne.	fair.
Bk. Southern Belle, off Huelva, Portugal †	29.87	758.7				wsw.			3		2			0	0			fair.
S. St. Francis, N. 4° 25′ W. 29° 30′†	30.02	762.5	84	28.9	71	ne.			4		3		ne.	1 h'r	1 h'r	mod.	ene.	fair.
Bk. St. Lawrence, N. 27° 47′, W. 57° 13′*†	30.20	767.1				se.			4				sse.	0	0	mod.	ne.	clear.
S. S. Strathleven, N. 34° 53′, E. 20° 01′	29.82	757.4	65.0	18.3	86	wnw.			3		0			0	0	2		blue sky.
Bkt. Sunlight, N. 22° 45′, W. 56° 40′						ese.			4		3		ese.	1 h'r	1 h'r	mod.	se.	fair.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	29.92	760.0				n			1		0							
Bk. Usko, Point Lookout, Md*	30.03	762.7	61	16.1		ne.			2					0	0			light fog.
S. Vincenzo Accame, N. 35° 30′, W. 42° 20′†	30.38	771.7	66.2	19		nw.			1		3		n.	0	0	long	n.	fine.
Bk. Winifred, N. 9° 08′, W. 45° 55′ *†	30.10	764.5											e.	0	0		ene.	d. clouds.
S. Wm. Wilcox, N. 33° 51′, W. 77° 00′..*†	30.18	766.6				ne.			1		10		ne.	0	0	mod.	ene.	
S. Wm. McGilvery, N. 30° 58′, W. 42° 17′*†	30.30	769.6	68	20.0	60	ese.			3		9		ese.	0	0	mod.	ene.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay *†	30.08	764.0	63.8	17.7	98	ene.			2		9							threatening.
H. M. S. Boadicea, Cape Town, Cape Colony	29.96	761.0	64	17.8	83	nne.			3		6							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.05	763.3	61.7	16.5	94	ne.			1		10							overcast.
H. M. S Thetis, S. 35° 06′ W. 53° 39′	30.13	765.3	64	17.8	94	ne.			1		8					3	e.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.05	763.3	63	17.2	94	ene.	13	5.8			10		ne.	0.65	16.5	sm'h		raining.
U. S. S. Enterprise, Cape Town, Cape Colony*	29.91	759.7	60	15.6	88	ne.			2		8		ne.			sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	30.04	763.0	62	16.7	94	ne.			2		10					sm'h		cloudy.
S. S. Jerome, Para, Brazil*	29.78	756.4				var.			2		5		se.	1 h'r	1 h'r			fair.
S. S. Archimides, Rio de Janeiro, Brazil	30.14	765.5				calm			0		2		calm	0	0			clear.
S. S. Hevelius, S. 29° — W. 45° —′†	30.42	772.7	76	24.4		ne.			6		3		ne.	0	0	sm'h		clear.
S. S. Ptolemy, S. 7° 30′, W. 31° 45′	30.03	762.7	79.1	26.2	82	e.			5	90s	kn	wnw.		2.00	50.8	3	ese.	squally.
Bk. Gronsaver, S. 16° 00′, W. 32° 40′†	30.11	764.9	78.5	25.8		ese.			5		3		ese.	0	0	mod.	e.	clear.
S. Minnie N. Gerow, S. 18° 15′, W. 38° 04′†	30.16	766.1	78	25.6		sse.			4		7		se.	0	0	sm'h	s.	fair.
S. S. Mendoza, S. 20° 15′, W. 35° 12′†	30.30	769.6				ene.			1				e.	0	0	sm'h	se.	clear.
S. Paramita, S. 51° 47′, W. 51° 48′†	30.29	769.4	42	5.6		var.			4		6		nw.	0	0	sm'h		fair.
S. Storm King, S. 39° 47′, W. 54° 30′ *†	30.08	764.0				e.			0		8		e.	10 h'r	10 h'r	mod.	ne.	cloudy.
Inchkeith, S. 19° 02′, W. 24° 71′	30.16	766.1	74.4	23.6	81	se.			5		4							d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chusan, China	29.99	761.7	66	18.9	94	calm			0		1	nw.						blue sky.
H. M. S. Champion, N. 6° 20′, E. 103° 50′	29.75	755.6	85	29.4	92	ese.			2		2					2	ese.	d. clouds.
H. M. S. Sappho, N. 8° 56′, W. 79° 31′			80	26.7	91	nw.			1		5	nw.						d. clouds.
H. M. S. Flying Fish, N. 33° 47′, E. 124° 18′	29.99	761.7	53.5	11.9	77	wnw.			5		0					3	wnw.	blue sky.
H. M. S. Swiftsure, Esquimalt, V. I	29.87	758.7	52	11.1	93	wsw.			2–4		8	ssw.						d. clouds.
H. M. S. Zephyr, N. 37° 33′, E. 121° 25′	29.96	761.0	55	12.8	81	w.			1		0							blue sky.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. P. M. S. Tamega, Macao, China	29.99	761.7	78.6	25.9	79	ese.			3		10			3 h'r	3 h'r			overcast.
U. S. Naval Hospital, Yokohama, Japan	29.78	756.4	55	12.8	93	e.			3		8		e.	0.38	9.7			clearing.
U. S. S. Adams, Port Townsend, Wash. Ter†	29.85	758.2	49	9.4	93	ssw.			1		10					sm'h		cloudy.
U. S. S. Monocacy, Nagasaki, Japan	29.91	759.7	59	15.0	76	w.			3		5		sw.					fair
U. S. S. Palos, Hong Kong, China	29.88	758.9	72	22.2	85	e.			1		10		calm					cloudy.
U. S. S. Richmond, Hong-Kong, China *	29.89	759.2	74	23.3	72	e.			4		10		e.	0	0			cloudy.
S. S. Oceanic, N. 41° 10′, W. 168° 00′*	29.86	758.4	53	11.7	80	sw.			4		4		wnw.			4	w.	fair.
S. S. City of Chester, Eureka, Cal †	29.88	758.9	45	7.2	92	calm			0		10			0	0			overcast.
S. S Oregon, N. 38° 09′, W. 123° 25′ †	29.84	757.9	51	10.6	93	e.			1		5		e.			sm'h		fair.
S. S. Dakota, N. 39° 55′, W. 123° 58′ †	29.93	760.2	54	12.2	74	nw.			4		8		nw.	0	0	long	nw.	cloudy.
S. S. G. W. Elder, Port Townsend, Wash Ter†	29.87	758.7	49	9.4	71	sse.			2		10							cloudy.
S. S. City of New York, N. 4° 10′. W. 164° 59′†	29.89	759 2	81	27.2	78	ne.			4		8		ne.	1 h'r	1 h'r	mod.	ne.	cloudy.
S. S. City of Pekin, N. 22° 13′, E. 114° 56′			73	22.8	63	ene.			6		10		e.	0	0	small	e.	overcast
S. S. Colima, N. 9° 36′, W. 85° 12′†	29.90	759.4	79	26.1	82	wnw.			3		7		wnw.	0.04	1.0	small		fair.
S. S. Granada, N. 24° 32′ W. 112° 20′ †	29.94	760.5	58	14.4	88	n.			1		2		n.	0	0	small	nw.	clear.
S. S. San José, Panama, Panama †	29.89	759.2	78	25.6		nnw.			2	5 c	0	nnw.		0	0			fair.
S. Armenia, N. 11° 00′ W. 118° 30′ *	29.82	757.4	80	26.7	91	ne.			4		8		ne.	1 h'r	1 h'r	mod.	var.	cloudy.
S. S. Benledi, N. 14° —′ E. 110° 30′ *	29.82	757.4	81.5	27.5	91	n.			3–4		5		nnw.			mod.	nnw	rainy.
S. Grecian, S. 1° 30′, E. 128° 50′†	29.87	758.7	85	29.4	85	se.			1		3		var.	1 h'r	1 h'r	sm'h		clear.
S. Titan, N. 9° 26′, W. 115° 16′*†	29.96	761.0	84	28.9	91	nne.			2		1		ne.	0	0	sm'h	ne.	clear.
Bk. Xenia, N. 10° 52′, E. 109° 35′			85	29.4		ene.			4		3		e.	0	0	sm'h	ne.	clear.
S. S. Columbia, N. 45° 50′, W. 124° 07′†	29.97	761.2	52	11.1	86	sw.			1		5		ssw.	0	0	mod.	wsw.	hazy.
U. S. S. Ranger, La Libertad, San Salvador	29.91	759.7	80	26.7	82	nw.			1		10		calm	1.01	25.6	sm'h		cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, S 32° 32′, E. 161° 03′			65	18.3	78	se.			3		4					3	se.	showery.
H. M. S. Espiegle, S. 28 15′, E. 168° 51′	29.93	760.2	67	19.4	69	ssw.			4		2	s.				3	sse.	d. clouds.
H. M. S. Kingfisher, S. 19° 00′, W. 155° 30′	29.94	760.5	76	24.4		e.			3		3					3	e.	d. clouds.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.99	761.7	58	14.4		calm			0							sm'h		d. clouds
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.90	759.4	66	18.9	74	ne.			2		4							d. clouds.
U. S. S. Hartford, Tahiti, Society Ids, Oceania *	29.85	758.2	83	28.3	79	wsw.			1–2		2			0	0	sm'h		clear.
U. S. S. Iroquois, Valparaiso, Chili	30.15	765.8	61	16.0	88	calm			0		8					sm'h		cloudy.
U. S. S. Lackawanna, S. 31° 20′, W. 140° 21′ *	30.08	764 0	65	18.3	63	nne.			3		8		ene.			mod.	ene.	cloudy
U. S. S. Onward, Callao, Peru*†	30.10	764.5	66	18.9	89	wnw.			1		10		s.					misty.
U. S. S. Pensacola, Callao, Peru *	29.95	760.7	67	19.4	84	calm			0	0	10			0	0			misty.
U. S. S. Wachusetts, S. 7° 42′, W. 165° 29′	29.85	758.2	83	28.3	83	e.			1		2		e.			sm'h		clear.
May Hulse, S. 49° 03′, W. 80° 40′	29.87	758.7	46.5	8.1	81	calm			0		8							cloudy.
S. S. City of Sydney, Sydney, N. S. W*†	30.17	766.3	66	18.9	68	se.			2		3 k		se.	0	0	small	se.	clear.
S. S. Zealandia, Sydney, N. S. W	30.08	764.0	67	19.4	95	n.			3		10			0	0			cloudy.
S. David Crocket, S. 51° 47′, W. 79° 50′ *	29.73	755.1	46	7.8	92	nw.			4		9		w.	0	0	long	w.	cloudy.
H. M. S. Lark. S. 17° 22′, E. 159° 16′	29.98	761.5	77.3	25.2	95	se.			4		4					3	se.	d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 14° 33′ E. 50° 30′	29.77	756.1	84	28.9		sw.			1		6	ssw.						d. clouds.
H. M. S. Euryalus, N. 7° 50′, E. 78° 00′	29.68	753.9	84	28.9	87	sw.			4		8	sw.				2		squally.
H. M. S. London, Zanzibar, Zanzibar	29.87	758.7	78	25.6	86	sse.			2		5	sse.				3	sse.	d. clouds.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.81	757.2				ssw.			2		0							blue sky.
H. M. S. Woodlark, Jask, Persia	29.71	754.6	84	28.9	71	sw.			1–3		1							blue sky.
U. S. S. Juniata, N. 27° 33′, E. 51° 36′	29.81	757.2	81	27.2	70	n.			5		5		n.	0	0	mod.	n.	fair.
Bk. Alpheus Marshall, S. 30° 12′, E. 36° 45′ *†	29.98	761.5				sse			3		2		sse.	0	0	sli't	ssw.	clear.
S. Annie M. Law, S. 17° 10′, E. 88° 49′ *†	29.87	758.7	79	26.1		sse.			1		1		sse.	0	0	long	s.	clear.
S. S. Burswell, N. 15° 31′, E. 59° 50′*†	29.88	758.9	88	31.1		sw.			2		1		calm	0	0	sm'h		clear.
Bk. Bore, Lomboc, Lomboc Id, Oceania *†	30.23	767.8	86	30.0		s.			4		1		s.			sm'h	ssw.	hazy.
Bk. Ceylon, S. 24° 51′, E. 57° 18′ *†	30.16	766.1	78	25.6	91	e.			5		8		e.	0	0	mod.	e.	cloudy.
S. Dynomene, S. 32° 40′ E. 35° 30′	30.08	764.0	72	22.2	71	ne.			4		2			slight	slight	mod.	sw.	blue sky.
S. S. Malabar, N. 12° 29′ E. 43° 58′						ese.			6		0			0	0	sm'h		clear.
Bk. Pilgrim, S. 7° 37′, E. 105° 00′*†	29.80	756.9				calm			0		3			0	0	mod.	se.	clear.
S. S. Radnorshire, N. 12° 24′, E. 46° 28′*†	29.82	757.4				ene.			4		0			0	0	sli't	e.	clear.
S. St. David, S. 40° 10′, E. 78° 30′ *†	30.25	768.3	57.3	14.1	87	s.			4		9		s.	1 h'r	1 h'r	long	sw.	cloudy.
Bk. Chas. Stewart, S. 44° 53′. E. 133° 00′†	30.04	763.0	54	12.2		w.			2		2			0	0	mod.	w.	clear.
S. S. Foscolia, Point de Galle, Ceylon †	29.75	755.6				sw.			3		10		sw.	9 h'r	9 h'r	rg'h	var.	raining.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 6, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.96	761.0	65.5	18.6	77	n.			1		0			0	0	clear	Malaterre.
Algiers			29.85	758.3	65.5	18.6	52	w.			2		0			0	0	clear	Thève.
La Calle			29.76	756.0	67.3	19.6	67	w.			2		1			0	0	p. fair	Fonfréde.
Tunis			29.77	756.1															Jacques.
Saida			30.01	762.2															Pérès.
Tebessa			29.89	759.2	84.2	29.0	1	nw.			1		0			0	0	clear	St. Martin.
Geriville					75.2	24.0	inap.	ssw.			7		0			0	0	clear	Forfert.
Laghouat			29.98	761.6	73.4	23.0	22	se.			4		0			0	0	clear	Abraham.
Biskra			29.90	759.4	78.8	26.0	26	nw.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.84	757.9	57.0	13.9	82	wnw.	27	12.1			10 n			0.164	4.2	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.65	753.1	29.74	755.4	57.1	13.9	70	n.	26	11.6			3			0.11	2.8	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	28.88	733.6	29.42	747.3	55.9	13.3	79	ne.			3		10			0.035	0.9	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.82	732.0	29.58	751.2	53.2	11.8	91	nne.	18.6	8.3			10			0.492	12.5		Dr. Wierzbiski
Eperies	28.60	726.5	29.45	747.9	64.0	17.8	58	calm			0		7 ks		n.	0.126	3.2		Julius Mikolik.
Gratz	28.27	718.1	29.50	749.2	57.7	14.3	66	nw.			3		10			0	0		Andreas Rospini.
Hermannstadt	28.03	711.9	29.37	745.9	73.9	23.3	33	s.			2		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.28	718 4	29.60	751.8	55.8	13.2	63	nw.			2		10 s			0	0	covered	The Staff.
Lemberg	28.53	724.7	29.50	749.3	54.5	12.5	90	ne.			1		10			0.047	1.2		Dr. T. Stanecki.
Neu Schmecks	26.19	665.2	29.48	748.7	52.5	11.4	81	calm			0		9			0.307	7.8		Dr. V. von Szontagh.
Pola	29.35	745.6	29.41	747.0	54.9	12.7	97	wnw.			3		8			0.110	2.8		I. R.Hydrographic Office.
Szathmar	28.97	735.9	29.34	745.3	67.1	19.5		w.			1		9			0.031	0.8		Joseph Midlinszky, S. J.
Szegedin	29.11	739.5	29.38	746.3	64.4	18.0	55	se.			1		6			0.772	19.6		Karl Stancel.
Trieste	29.42	747.3	29.52	749.8	61.9	16.6	77	sw.			1		9			0	0		Royal Academy.
Vienna	28.84	732.6	29.54	750.4	55.4	13.0	75	nne.			3		10			0.102	2.6		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.02	762.5	30.12	765.0	47.4	8.6	70	se.	9	4.0			7			0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.87	758.7	30.11	764.8	47.5	8.6	60	nne.	11	4.9									S. Call.
Bidston, Liverpool Obs'y			29.99	761.7	57.5	14.2	45	ene.	23	10.3			5					misty	John Hartnup.
Bolton, Sharples	29.45	748.0	29.99	761.7	56.2	13.4	51	ene.	24	10.7								blue sky	Thomas Mackereth.
Bradford, Yorkshire																0	0		McLandsborough&Preston.
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	84.0	28.9	71	se.			1		3					d. clouds	Corpl. W. I. Cull, A.H.C.
Cardington	29.80	756.9	29.90	759.4	60.0	15.6	52	ne.			4.0		4					d. clouds	John McLaren.
Chatham, School M. E.	29.74	755.4	29.87	758.7	52.1	11.2	81	e.			3		5					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.67	753.6	29.90	769.4	51.0	10.6	67	n.			2		10					overcast	The Staff.
Fort Napier, Natal	27.49	698.2	29.71	754.6	77.2	25.1	28	se.			1		3					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	81.0	27.2	78	s.			1		5					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.98	761.5	30.02	762.5	51	10.6	59	ne.			2		4			0.01	0.3	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.69	754.1?	29.74	755.4?	63.0	17.2	92	e.			2		2					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.84	757.9	30.05	763.3	50.4	10.2	46	ne.			3		5					misty	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.69	754.1	29.86	758.4	62.7	17.1	67	ne.			3		9					d. clouds	The Staff.
Guernsey	29.54	750.3	29.84	757.9	48.0	8.9	92	n.			1		8					gloomy	A. Coltenette, F. M. S.
Kew, Observatory	29.83	757.7	29.86	758.4	60.1	15.6	60	ne.	20	8.9			10					overcast	The Staff.
Leicester, Museum	29.73	755.1	29.98	761.5	56.5	13.6	78	nne.			2		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.91	759.7	67.0	19.4	79	sw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.02	762.5	30.06	763.5	78.8	26.0	71	nw.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.43	747.5	29.96	761.0	54.7	12.6	71	nne.			3		7					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.67	753.6	29.90	759.4	58.8	14.9	64	ne.			5		4					misty	The Staff.
Plymouth	29.80	756.9	29.88	758.9	55.0	12.8	71	ne.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.97	761.2	30.07	763.8	47.8	8.8	78						8					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.52	749.8	29.58	751.3	66.4	19.1	62	se.			1		9					misty	W. H. Lyne.
Sheffield	29.74	755.4	30.02	762.5	56.1	13.4	74	ne.			1		3			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.03	762.7	30.06	763.5	55.4	13.0	50	e.			3		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.03	762.7	56.0	13.3	45	ne.	16	7.2								blue sky	W. C. Carlisle.
Truro, Royal Institution	29.87	758.7	29.94	760.5	54	12.2	64	n.			6		10					gloomy	W. Newcombe.
Valencia, Observatory	29.99	761.7	30.02	762.5	50.9	10.5	60	ne.	19	8.5			3			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.58	751.3	29.97	761.2	66.2	19.0	63	w.	9.3	4.2						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.23	767.8	30.27	768.8	39	3.9	69	se.	7	3.1			10 n		w.	0	0	cloudy	H. J. Cundall, C. E
Chatham, N. B*	30.20	767.1	30.27	768.8	39	3.9	86	sw.	3	1.3			10 n			0.05	1.3	light rain	G. A. Blair.
Cornwall, Ontario	29.94	760.5	30.13	765.3	45.5	7.5	77	nw.			1		10 s			0.332	8.4	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.16	766.1	30.22	767.6	33.5	0.8		e.			2		10			0.050	1.3	snowing	H. A. Johnson.
Father Point, Quebec*	30.05	763.3	30.07	763.8	39	3.9	89	s.	25	11.2			10 n		s.	0.05	1.3	light rain	J. McWilliams.
Fort Garry, Manitoba*	29.38	746.2	30.27	768.8	24	— 4.4	73	se.	4	1.8		2 cs	8 s	sw.	sw.	inap.	inap.	cloudy	James Stewart.
Fredericton, N. B	30.18	766.6	30.24	768.1	41.1	5.1	82	e.	6	2.7			10 n			0.150	3.8	light rain	Prof. Harrison, L. L. D.
Granton, Ontario	29.17	740.9	30.31	769.9	38.0	3.3	100	nw.	2	0.9		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.14	765.5	30.28	769.1	41	5.0	65	se.	12	5.4		2 ck	5 ck	w.	w.	0	0	cloudy	A. Allison.
Hamilton, Ontario	29.82	757.4	30.22	767.6	44.2	6.8	84	sw.			1	2 c	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.87	758.7	30.22	767.6	44	6.7	76	nw.	5	2.2		0	0			0.06	1.5	clear	A. P. Knight, M. A
Little Glace Bay, N. S	30.18	766.6	30.22	767.6	41.8	5.4	68	se.			3	0	8 ks			0	0	d. clouds	C. H. Rigby.
Montreal, Quebec*	29.93	760.2	30.13	765.3	46	7.8	83	w.	10	4.5			10 ks		nw.	0.73	18.5	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.92	760.0	30.17	766.3	45.6	7.6	79	w.			2		0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.50	749.3	30.22	767.6	37	2.8	92	s.	3	1.3		0	0			0.01	0.3	clear	Rev. R. Mostey.
Peterboro, Ontario	29.46	748.3	30.19	766.8	53.7	12.1	67	sw.			1	6 c	0			0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.56	750.5	30.27	768.8	42	5.6	91	nw.	3	1.3		0	0			0	0	clear	H Morgan.
Port Stanley, Ontario	29.60	751.8	30.27	768.8	36	2.2	92	nw.	1	0.4		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.71	754.6	30.07	763.8	40	4.4	100	calm	0	0			fg.			0.466	11.8	foggy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.71	754.6	30.18	766.6	41	5.0	82	calm	0	0		2 c	0	w.		inap.	inap.	fair	W. H. McIntyre.
St. Andrews, N. B	30.11	764.8	30.16	766.1	39	3.9	72	se.	3	1.3			10 n			0	0	cloudy	
St. John, N. B	30.04	763.0	30.21	767.3	38.0	3.3	81	e.	5	2.2			10 n			inap.	inap.	raining	G. Murdock, C. E.
Saint John's, N. F	30.02	762.5	30.27	768.8	38	3.3	81	ne.			1	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F			30.24	768.1	40.3	4.6		nw.			4					0	0		The Commandant
Saugeen, Ontario*	29.49	749.0	30.24	768.1	35	1.7	89	s.	7	3.1		0	0			0	0	clear	
Stratford, Ontario	28.96	735.6	30.25	768.3	46.0	7.8	78	nw.	4	1.8		0	0			0	0	blue sky	G. J. Macgregor, M A
Sydney, C. B*	30.27	768.8	30.34	770.6	37	2.8	69	calm	0	0		10 cs	0			0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.88	758.9	30.27	768.8	43	6.1	80	calm	0	0		0	0			0	0	clear	Magnetic Observatory.
Windsor, N. S	30.10	764.5	30.20	767.1	42.0	5.6	58	e.	12	5.4			10 ks			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.21	741.9	30.28	769.1	47.8	8.8	77	sw.	5	2.2		0	0			0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.05	763.3	30.12	765.0	42	5.6	89	e.	8	3.6			10 s		e.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
London, Ontario	29.36	745.7	30.29	769.4	38.2	3.4	96	calm			0	0	0			0	0	blue sky	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.97	761.2	30.00	762.0	67.0	19.4	78	wsw.	6.4	2.9		0	2 k			0	0	clear	John Duthie.
Springbok Fontein	27.90	708.6			54	12.2	87	nw.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	24.88	632.0																	A. Gueluy.
Tchang-kia-tchouang	29.74	755.3	29.85	758.1	67.8	19.9	36	sw.			3		5			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	30.08	764.9	30.10	764.6	55.8	13.2	74	se.	7.8	3.5			7			0	0	al. covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.96	761.0	30.01	762.2	53.2	11.8	51	calm	0	0			2						Oversergent Fischer.
Fanoe	29.98	761.6	30.00	762.1	57.6	14.2	41	e.			2		1						Overloerer Lauridsen.
Godthaab, Greenland	30.28	769.1	30.32	770.2	32.7	0.4	76	ne.			4		0						S. Kleinschmidt.
Jacobshavn, Greenland	30.37	771.4	30.42	772.6	36.0	2.2		calm			0		1						
Stykkisholm, Iceland	30.33	770.3	30.37	771.4	30.6	− 0.8	86	ne.			7		2						A. O. Thorlacius.
Thorshavn	29.92	759.9	29.94	760.5	50.4	10.2	78	w.	13	6			3						Overloerer Bergh.
Vestervig	29.95	760.7	30.04	763.0	52.5	11.4	42	nw.			2		1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.61	752.1			95.4	35.2		nnw.	5.6	2.5			10			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.28	743.7	29.94	760.4	50.7	10.4	84	w.			1		n		w.	0.252	6.4		M. Labroue, Director.
Alençon, Normal School	29.15	740.3	29.70	754.3	55.4	13	97	sw.			1	0	2 k			0	0	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School	29.47	748.4	29.72	755.0	48.2	9.0	93	nw.			2	ck	0	n.		0	0		M. Fénéon, Command't.
Avignon, Normal School	29.60	751.7	29.67	753.7	66.2	19	47	nnw.			1		5		w.	0.126	3.2		M. Giraud, Director.
Bar-sur-Seine	29.11	739.5	29.65	753.2	66.9	19.4	38	sse.			1		8 kn		e.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.47	748.6	29.72	755.0	67.8	19.9	47	e.			2		8		ene.	0	0	very cloudy.	M. Frère Eugène Marié.
Besançon, Normal School	28.74	730.0	29.61	752.1	64.8	18.2	81	s.			1		kn		ne.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.59	751.6	29.85	758.2	48.2	9.0	80	nw.			1		10			0.150	3.8	covered	M. Rayet, Director.
Bourges, Normal School	29.06	738.0	29.60	751.8	57.2	14	84	nnw.			3		k		nnw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.69	754.0	29.93	760.2	52.9	11.6	61	nne.			2		7		nne.	0	0		M. de Kermarés, Dir.
Caen, Normal School	29.69	754.1	29.76	756.0	51.8	11	90	nnw.			2		10		nnw	0.20	5.	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.32	744.8	29.63	752.7	72.9	22.7	71	ese.			4		8			0	0	very cloudy.	M. Jadot, Director.
Charleville, Normal School	29.20	741.7	29.69	754.2	68.0	20	45	ene.			8		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.37	720.7	29.72	754.8	54.9	12.7	69	w.			1		10			0.244	6.2	covered	M. Alluard, Director.
Cluny, Normal School	28.86	733.1	29.71	754.7	52.2	11.2	82	w.			1		10		w.	0.004	0.1		M. de Villemontée, Dir.
Commercy, Normal School	28.83	732.3	29.67	753.7	64.9	18.3	43	e.			4		kn		e.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.16	689.9	29.65	753.1	56.1	13.4	64	ne.			1	0	8 n			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.56	725.5	29.66	753.4	62.8	17.1	64	nw.			2		3		nw	0	0		M. Kina, Director.
Grenoble, Normal School	28.88	733.5	29.63	752.5	63.3	17.4	57	nnw.			1	ck	0		nnw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.19	715.9	29.76	755.9	55.4	13	63	sw.			1		kn		sw.	0	0		M. Delorme, Dir.
Lamballe, Normal School	29.68	753.8	29.95	760.7	50.0	10.	76	nw.			2		5		nw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.28	743.8	29.85	758.1	58.3	14.6	68	wsw.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.68	753.9	29.78	756.5	55.8	13.2	47	nw.			1		10	calm	n.	0.280	7.1	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.63	727.3	29.67	753.7	57.9	14.4	69	w.			1		10 n			0	0	covered	M. André, Director.
Mans, Normal School	29.42	747.3	29.73	755.1	52.9	11.6	83	nne.			3		8		nne.	0.055	1.4	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.41	746.9	29.67	753.6	61.5	16.4	67	w.			2		5		nw.	0	0		M. Stephan, Director.
Montlouis	24.60	624.8	29.44	747.8	43.3	6.3	78	n.	16.8	7.5			7		nw.	0.150	3.8		M. Cave for Dr. Fines.
Montpellier, Normal School	29.57	751.0	29.70	754.3	61.5	16.4	79	nw.			3		1		nw.	0	0	clear	M. Galzin, Director.
Nancy, Normal School	28.90	734.1	29.66	753.3	65.8	18.8	37	nne.			2		kn			0	0		M. Hasse, Director.
Nantes, Observatory	29.55	750.5	29.83	757.6	55.6	13.1	62	nnw.			1-2		10			0	0		M. Larocque, Director.
Perpignan, Observatory	29.66	753.4	29.77	756.2	61.0	16.1	42	n.	29.8	13.3			3		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.94	531.8			27.7	− 2.4		sw.			1		1g		sw.	0.118	3.0	dense haze	M. Vaussenat, Director.
Privas, Normal School	28.59	726.1	29.63	752.6	62.2	16.8	59	n.			1		10 n	s.	nw.	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.85	631.2			35.2	1.8	100	w.			4		10			0.390	9.9	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.77	756.1	29.80	756.9	52.9	11.6	76	wnw.			1		10		nw.			raining.	Lt. E. Decaute, Director.
Roche-sur-Yon, N. School	29.57	751.0	29.78	756.4	51.3	10.7	95	n.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.56	700.0	29.70	754.3	50.9	10.5	84	w.			1		10			0.59	15.	raining	M. Seger, Director.
Rouen, Normal School	29.70	754.3	29.71	754.5	64.8	18.2	60	ne.			1		2	ne.		0.12	3.	slightly cl'dy	M. Mouillot, Dir.
Saint Maur, Observatory	29.53	750.0	29.69	754.1	67.3	19.6	46	ne.			2		10		e.	0.055	1.4		M. Renou, Director.
Toulouse, Observatory	29.15	740.4	29.87	758.7	49.6	9.8	84	w.			2		10			0.398	10.1	covered	M. Baillaud, Director.
Tours	29.55	750.5	29.72	755.0	56.8	13.8	69	n.			1		10		ne.	0.098	2.5	rainy	M. de Tastes.
Versailles, Observatory	29.21	741.8	29.70	754.3	65.8	18.8	47	ne.			2					0.051	1.3		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.76	755.9	29.91	759.7	56.7	13.7	62	nw.	15.7	7.0		0	7 k		wnw.	0.681	17.3		M. Cartier, Director.
GERMAN.																			
Ansbach	28.28	718.3	29.68	753.9	63.7	17.6	37	ne.			6		1	ne.		0	0		Prof. Jnedt.
Bamberg	28.90	734.0	29.74	755.3	63.7	17.6	30	n.			5	0	2 s			0	0		Prof. Dr. Hoh.
Berlin	29.71	754.5	29.85	758.1	65.1	18.4	34	e.			5		1			0	0		Meteorological Institute.
Breslau	29.23	742.4	29.75	755.7	56.3	13.5	62	ne.			4		10			0	0		Royal University Obs'y
Carlsruhe	29.25	742.9	29.69	754.0	69.8	21.0	38	ne.			3		8	e.		0	0		Albert Senz.
Cassel	29.11	739.3	29.82	757.4	67.1	19.5	32	e.			5		1	se.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.74	755.4	69.1	20.6	32	ne.			2		1			0	0		Physical Society.
Friedrichshafen	28.24	717.2	29.61	752.1	61.9	16.6	52	ne.			5		5	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	29.84	758.0	29.93	760.3	61.5	16.4	41	nne.			4		2			0	0	light haze	E. Preller.
Kiel	29.96	760.9	29.97	761.3	52.2	11.2	44	e.			1		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.39	746.6	29.80	757.0	63.7	17.6	39	ne.			5		7	ne.		0	0	stormy	H. Leppig, Asst.
Magdeburg	29.66	753.3	29.84	758.0	66.0	18.9	39	ne.			3		4	ene.		0	0		Dr. Assmann.
Memel	29.86	758.0	29.91	759.8	58.8	14.9	50	ne.			4	0	5 ks						Issermann.
Munich	27.86	707.6	29.70	754.4	61.0	16.1	48	ne.			2		5	e.		0	0		Central Station.
Neufahrwasser	29.89	759.3	29.91	759.7	43.2	6.2	82	ne.			3		5			0	0		A. Lothes.
Neustadt, Palatinate	29.14	740.1	29.66	753.3	69.4	20.8	38	e.			2		3			0	0		Dicknether.
Stuttgart	28.74	729.9	29.60	751.8	66.7	19.3	38	n.			4		4	e.		0	0		Prof. Dr. Schoder.
Wustrow	30.02	762.4	30.04	763.0	50.9	10.5	65	wnw.			2	0	2 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.31	744.4	29.68	753.9	72.9	22.7		w.			2.0		1			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.63	752.6	29.68	753.9	84.0	28.9	61	sw.	35.0	15.6			2			0	0	d. clouds	
Deesa	29.19	741.3	29.64	752.8	102.5	39.2	13	sw.	15.0	6.7			0			0	0	blue sky	
Bombay	29.71	754.6	29.75	755.6	85.9	29.9	73	wnw.	14.0	6.3			0			0	0	blue sky	
Poona, Yarrowda	27.87	707.9	29.67	753.5	94.0	34.4	35	nw.	9.0	4.0			2			0	0	d. clouds	
Trichinopoly	29.43	747.5	29.70	754.3	102.1	38.9	27	w.	1.0	0.4			6	ne.	ne.	0	0	d. clouds	
Belgaum	27.18	690.4	29.64	752.9	89.5	31.9	41	ene.	7.0	3.1			6	s.		0.04	1.0	d. clouds	
Lahore	28.76	730.6	29.47	748.4	103.3	39.6	15	calm	0.	0			0			0	0	blue sky	
Roorkee	28.61	726.7	29.46	748.3	101.9	38.8	10	w.	8.0	3.6			0			0	0		
Agra	28.99	736.3	29.52	749.8	107.1	41.7	6	nw.	6.0	2.7			0			0	0	blue sky	
Nagpur	28.56	725.5	29.55	750.5	106.2	41.2	10	nw.	16.0	7.2			0			0	0	blue sky	
Jubbulpore	28.29	718.5	29.57	751.2	104.2	40.1	12	nnw.	10.0	4.5			0			0	0	blue sky	
Lucknow	29.13	740.0	29.49	749.1	101.4	38.6	21	wnw.	9.0	4.0			0			0	0	hazy	
Allahabad	29.20	741.6	29.49	749.1	105.1	40.6	12	nw.	6.0	2.7			0			0	0	blue sky	
Patna	29.31	744.4	29.48	748.9	100.7	38.2	21	nw.	6.8	3.0			0			0	0	blue sky	
Hazaribagh	27.58	700.6	29.50	749.4	97.5	36.4	11	nne.	11.3	5.0			0			0	0		
Cuttack	29.53	750.0	29.61	752.1	89.5	31.9	61	wnw.					2			0	0	d. clouds	
Calcutta, Alipore	29.55	750.4	29.57	751.0	85.5	29.7	78	ssw.	14.0	6.3			1		sw.	0	0	d. clouds	
Dhubri	29.47	748.4	29.58	751.4	75.7	24.3	87	ne.	10.0	4.5			10		sw.	3.32	84.3	overcast	
Chittagong	29.63	752.6	29.72	754.8	82.7	28.2	84	se.	9.1	4.1			5			0	0	blue sky	
Sibsagar	29.35	745.5	29.69	754.1	75.2	24.0	88	sw.	4.0	1.8			10	sw.	sw.	0.30	7.6	d. clouds	
Jeypore	28.20	716.3	29.58	751.2	102.7	39.3	25	w.	11.1	5.0			0			0	0	blue sky	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, Malta, Mediterranean	29.96	761.0	68	20.0	56	ssw.			2		0							blue sky.
H. M. S. Dido, Barbadoes, W. I	30.01	762.2	80	26.7		ene.			2		6	wsw.				1	e.	d. clouds.
H. M. S. Flamingo, N. 24° 50′, W. 70° 12′	30.01	762.2	80	26.7	100	var.			1		3	e.				3	con	showery.
H. M. S. Iris, Port Said, Egypt	29.75	755.6	74	23.3	86	nne.			3		5							d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.91	759.7	62	16.7	77	sse.			1		4	wsw.						d. clouds.
H. M. S. Rocket, N. 35° 30′, W. 42° 00′	30.11	764.8	70	21.1	90	sw.			5		6					4	nnw.	d. clouds
H. M. S. Tenedos, Halifax, N. S	30.27	768.8	40	4.4	73	ese.			1		8	sse.						d. clouds.
U. S. Navy Yard, Pensacola, Fla	30.05	763.3	69	20.6	90	ne.	5	2.2			5		ne.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H.*	30.06	763.5	43	6.1	75	ne.	7	3.1			10		ne.	0.1	3.			cloudy.
U. S. S. Alliance, N. 33° 30′, W. 75° 40′	30.06	763.5	72	22.2	90	n.			6		5			h'vy	h'vy	mod.		fair.
U. S. S. Colorado, New York, N. Y	30.23	767.8	52	11.1	86	nne.	6	2.7			10		ne.	0.04	1.0			overcast.
U. S. S. Franklin, Norfolk, Va	30.11	764.8	58	14.4	88	n.	14	6.3			10		n.	0.03	0.8			cloudy.
U. S. S. Jamestown, N. 26° 30′, W. 79° 40′	29.96	761.0	77	25.0	69	calm			0		8					sm'h		fair
U. S. S. Kearsarge, N. 36° 54′ W. 75° 54′	30.06	763.5	56	13.3	100	nnw.			4		10		n.			sm'h		cloudy.
U. S. S. Lancaster, Gravesend, Eng	29.84	757.9	59	15.0	82	nne.			3		2		ne.			sm'h		fair.
U. S. S. Michigan, Cleveland, O	30.24	768.1	50	10.0	93	w.			1		5		se.					fair.
U. S. S. Minnesota, New York, N. Y	30.13	765.3	57	13.9	75	nne.			3		10							cloudy.
U. S. S. New Hampshire, Newport, R. I	30.03	762.7	46	7.8	100	nne.			4		10		ne.			mod.	ne.	misty.
U. S. S. Portsmouth, N. 36° 58′, W. 76° 00′	30.14	765.5	56	13.3	100	nnw.			6		10							cloudy.
U. S. S. Powhatan, N. 21° 32′, W. 84° 49′	30.04	763.0	83	28.3	91	ene.			2		5					sm'h		fair.
U. S. S. Quinnebaug, Monrovia, Liberia, Africa	29.94	760.5	81	27.2	87	sw.			1		2					long	sw.	fair.
U. S. S. Saratoga, N. 25° 52′, W. 58° 20′	30.21	767.3	74	23.3	90	e.			3		5?		e.	light	light	sm'h	e.	clear.?
U. S. S. St. Louis, League Island, Pa	30.13	765.3	53	11.7	73	n.	14.3	6.4			8		n.	0.10	2.5			cloudy.
U. S. S. Swatara, N. 11° 00′, W. 81° 54′ †	29.92	760.0	79	26.1	82	n.			2		5		n.	0	0	sm'h		fair.
U. S. S. Tennessee, Fort Monroe, Va	30.08	764.0	60	15.6	88	nw.	12	5.4			10?			0	0			fair.?
U. S. S. Vandalia, Elizabeth river, Va	30.09	764.3	60	15.6	82	nw.			3		8		nw.					fair.
U. S. S. Wabash, Boston, Mass	30.13	765.3	46	7.8	84	n.	2	0.9			10		ne.	0.50	12.7			cloudy.
U. S. S. Yantic, N. 36° 40′, W. 75° 02′	30.13	765.3	50	10.0	93	nnw.			4		10					mod.	ne.	foggy.
Commewyne, N. 30° 26′, W. 54° 24′	30.24	768.1	72	22.2	80	ene.			3		4							d. clouds.
S.S. St. Kilda, Demerara, Brit. Guiana	30.02	762.5	79	26.1	90	calm			0		8							misty.
S. S. British Crown, N. 48° 55′, W. 29° 44′ †	29.92	760.0	52	11.1		sse.			5		4		s.	0	0	mod.	s.	fine.
S. S. British Prince, N. 38° 53′, W. 72° 07′ †	29.97	761.2	49	9.4		nne.			6					0	0	mod.	ne.	foggy.
S. S. Illinois, N. 39° 07′, W. 52° 53′*	30.24	768.1	56	13.3		ene.			3		5		e.			sm'h	ne.	fair.
S. S. Lord Gough, N. 44° 57′ W. 34° 37′	29.78	756.4	52	11.1		nw.			5		10		nw.	10 h'r	10 h'r	cross	var.	cloudy.
S. S. Ohio, N. 49° 22′, W. 17° 37′ †	30.07	763.8	50	10.0	86	e.			4		4?		e.	0	0	mod.	e.	cloudy.?
S. S. Pennsylvania, N. 38° 53′, W. 73° 10′ †	29.95	760.7	47	8.3		n.			4		10					sm'h		overcast.
S. S. Circassian, N. 49° 09′, W. 66° 52′	30.12	765.0	39	3.9	91	wsw.			3		10		wsw.	2 h'r	2 h'r	sm'h		raining.
S. S. Grecian, Quebec, Canada	30.08	764.0	44	6.7	92	ne.			1		10			23 h'r	23 h'r			foggy.
S. S. Nova Scotian, N. 50° 58′ W. 21° 46′	30.24	768.1	50	10.0		var.			3		10		ne.			sli't	ne.	
S. S. Polynesian, N. 53° 58′, W. 22° 52′	30.28	769.1	54	12.2		ene.			2		2		w.	0	0	sm'h	ne.	clear.
S. S. Manitoban, Galway, Ireland	30.12	765.0	62	16.7		nw.			2		6?		nw	0	0			clear?
S. S. Scandinavian, Quebec, Canada			40	4.4		e.			1		10		wnw.	20 h'r	20 h'r			raining.
S. S. Antillas, N. 29° 20′, W. 74° 56′			76	24.4		n.			1		2		n.			sm'h	n.	fine.
S. S. Jason, N. 40° 55′ W. 58° 41′			69.8	21.0		ssw.			6–8		9 n					8	s.	raining.
S. S. Alvo, Jacmel, Hayti, W. I	29.99	761.7	78	25.6		s.			1–2		6 k		sse.	0	0	long	n.	fine.
S. S. Alene, Port Limon, Costa Rica †	29.98	761.5	80	26.7		nne.			2		2		e.	0	0	sm'h		fine.
S. S. Alisa, N. 17° 30′, W. 70° 14′ †	29.92	760.0	85	29.4		e.			2									
S. S. Assyria, N. 38° 06′, W. 15° 46′	29.75	755.6	55	12.8		ene.			6		10		ene.	7 h'r	7 h'r	mod.	ene.	raining.
S. S. Bolivia, N. 40° 59′, W. 58° 08′ *†	30.33	770.4	57	13.9		ese.			4		8		ese.	0	0	sm'h	e.	cloudy.
S. S. Dorian, N. 33° 54′, W. 47° 30′	30.23	767.8	68	20.0		w.			3		8		w.	0	0	sm'h	n.	fine.
S. S. Devonia, N. 40° 29′, W. 70° 20′*†	29.89	759.2	43	6.1		n.			4		10		nne.			mod.	e.	rainy.
S. S. Furnesia, Liverpool, Eng †	29.88	758.9				ne.			2		5		n.	0	0			fair.
S. S. Elysia, N. 40° 35′, W. 35° 18′	29.88	758.9	55	12.8	100	nnw.			4		10		nw.	24 h'r	24 h'r	mod	sw.	cloudy.
S. S. Llandaff City, N. 51° 10′, W. 10° 25′ †	29.90	759.4	54	12.2		nne.			5		8		ne.	12 h'r	12 h'r	mod.	ne.	cloudy.
S. S. Pavonia, N. 40° 18′, W. 51° 21′	30.25	768.3	52	11.1	60	ene.			4		1		ne.	0	0	sm'h		clear.
S. S. Scythia, N. 41° 52′, W. 57° 40′	30.29	769.4	53	11.7	86	ese.			2		2		ese.	0	0	sm'h		clear.
S. S. Canada, N. 40° 53′, W. 56° 50′	30.35	770.9	68.0	20		e.			1	ck	0	n.		0		sm'h		almost clear
S. S. Abyssinia, N. 45° 30′, W. 36° 50′	29.88	758.9	52	11.1	86	nne.			3		4		nne.	0	0	mod.	nw.	d. clouds.
S. S. Gellert, New York, N. Y	30.13	765.3	50	10.0	79	ne.			1		10			3 h'r	3 h'r			covered.
S. S. Silesia, N. 46° 12′, W. 35° 17′	29.74	755.4	50	10.0		w.			7		4?		w.	2 h'r	2 h'r	6	w.	cloudy ?
S. S. Westphalia, N. 41° 18′, W. 59° 22′	30.39	771.9	52	11.1	93	se.			4		5		w.	2 h'r	2 h'r	sm'h	sw.	fair.
S. S. City of Berlin, N. 51° 08′, W. 16° 20′	30.02	762.5	51	10.6	86	ene.			4		4		ne.	0	0	sli't	ne.	fine.
S. S. City of Paris, N. 40° 37′, W. 63° 07′ *	29.90	759.4				ese.			6		10		ese.	12 h'r	12 h'r	r'gh	ese.	heavy rain.
S. S. Bulgarian, Boston, Mass *	30.15	765.8				nne.			4		10		n.	2 h'r	2 h'r			cloudy.
S. S. Colorado, N. 26° 27′, W. 79° 50′ †	30.05	763.3	78	25.6		nw.			2		5		nw.	light	light	mod.	nnw.	fair.
S. S. Rio Grande, N. 24° 41′ W. 80° 46′ *†	30.04	763.0	82	27.8		se.			1		7		sse.	0	0			fair.
S. S. Chalmette, N. 37° 58′, W. 74° 30′ †	30.13	765.3	52	11.1		n.			5					0	0	mod.	ne.	foggy.
S. S. New York, N. 27° 35′, W. 79° 00′			76	24.4		nne.			2		2		ne.			sm'h		clear.
S. S. Allegheny, N. 39° 46′, W. 75° 26′ †	30.07	763.8	46	7.8		n.			2		0			0	0	long	ne	foggy.
S. S. Archimede, New York Bay, N. Y †	30.08	764.0	54	12.2	61	nne.			3		6		nne.	0	0			fair.
S. S. City of Washington, N. 24° 47′, W. 80° 19′ †	30.13	765.3	80	26.7		n.			2		8		n.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Denmark, N. 40° 20′, W. 69° 30′			40	4.4		ene.			4		10			24 h'r	24 h'r	sli't	e.	dense fog.
S. S. Egypt, N. 40° 25′, W. 69° 57′ *†	30.00	762.0	43	6.1		nne.			4		10		nne.	16 h'r	16 h'r	mod.	n.	hazy.
S. S. England, N. 40° 28′, W. 72° 39′	29.96	761.0				n.			5		fg		n	10 h'r	10 h'r	mod.	n.	dense fog.
S. S. Helvetia, N. 49° 01′, W. 29° 59′	29.91	759.7	57	13.9	87	sse.			5		8		sse	0	0	short	sse.	cloudy.
S. S. Holland, N. 40° 28′ W. 53° 25′	30.25	768.3	58	14.4		nw.			3		5		nw.	0	0	sm'h	nw.	fair.
S. S. America, N. 47° 52′. W. 18° 12′*	30.10	764.5	54.5	12.5	83	ne			3		4		ne.	0	0	r'gh	ne.	showery.
S. S. Donau, N. 45° 57′, W. 39° 04′	29.90	759.4				w.			6		8		w.	5 h'r	5 h'r	r'gh	w.	cloudy.
S. S. Elbe, N. 47° 09′ W. 27° 28′	30.07	763.8	54	12.2	71	se.			6		6		ese	0	0	long	sse.	fair.
S. S. Habsburg, N. 50° 06′, W. 5° 00′	29.95	760.7				ne.			2		5		ne.	0	0	sm'h	ne.	fair.
S. S. Hohenstaufen, N. 38° 43′, W. 65° 59′	29.90	759.4				se.			3		6		se.	5 h'r	5 h'r	mod.	se.	fair
S. S. Main, N. 41° 20′, W. 66° 10′	30.00	762.0	52	11.1		e.			4		10		e.	6 h'r	6 h'r	mod.	e.	raining.
S. S. Oder, N. 47° 18′, W. 22° 05′	30.09	764.3	55.4	13.0		nne.			1		9		ne.	0	0	sm'h	ene.	cloudy.
S. S. Ohio, N. 40° 00′, W. 64° 40′	29.94	760.5				e.			3–4		10		ese.	2 h'r	2 h'r	mod.	e.	rainy.
S. S. Salier, N. 40° 28′, W. 69° 56′ *†	29.98	761.5	43	6.1		n.			6		10			4 h'r	4 h'r	cross	n.	rainy.
S. S. Weser, N. 48° 12′, W. 27° 40′	30.06	763.5				sse.			5		8		s.	¼ h'r	¼ h'r	mod.	s.	cloudy
S. S. Orinoco, N. 35° 16′, W. 67° 45′*†	29.89	759.2	73	22.8		wsw.			4		4		wsw.	2 h'r	2 h'r	light	ene.	hazy.
S. S. Muriel, Trinidad, W. I	29.94	760.5	84	28.9		ene.			2		8			4 h'r	4 h'r	sm'h		cloudy.
S. S. City of Augusta, N. 33° 05′, W. 78° 39′ †	30.10	764.5				nne.			4		8		ne.	0	0	h'vy	ne.	cloudy.
S. S. Belgenland, N. 46° 20′, W. 29° 15′ †	30.07	763.8	56	13.3	100	se.			6		4		se.	0	0	mod.	se.	fair
S. S. Nederland, N. 42° 40′, W. 41° 22′			49	9.4	85	wnw.			6		2		w.	1 h'r	1 h'r	mod.	wnw.	clear
S. S. Rhynland, N. 50° 30′, W. 2° 10′	29.86	758.4	49	9.4	78	nw.			5		8		n.	0	0	sm'h		cloudy.
S. S. Pennland, Antwerp, Belgium	29.90	759.4	69	20.6	80	e.			4		2		e.	0	0			clear.
S. S. Waesland, Jersey City, N. J	30.13	765.3	53	11.7		ne.			1		7		n.	0.22	5.6			clearing.
S. S. Zeeland, N. 48° 30′, W. 23° 20′ *†	30 12	765.0	60	15.6		ene.			4		10		ne.	0	0	high	ne.	overcast.
S. S. P. Caland, Rotterdam, Holland	29.84	757.9	66.7	19.3	67	ne.			4		4		ne.					fair.
S. S. Leerdam, N. 46° 36′, W. 41° 12′	29.77	756.1	51	10.6	86	wnw.			4		8		nw.			r'gh	nw.	cloudy.
S. S. Rotterdam, N. 50° 21′ W. 1° 52′	29.83	757.7	58	14.4	87	nne.			3		6		n.	0	0	2	nne.	hazy.
S. S. Caracas, Curacao, W. I †	30.02	762.5	82	27.8	85	e.			2		5		e.	½ h'r	½ h'r	sm'h		fair.
S. S. Claudius, N. 38° 00′, W. 74° 30′ †	30.11	764.8	45.0	7.2	100	n.			4		10			0	0	short	nne.	foggy.
S. S. State of Florida, N. 55° 32′, W. 7° 14′	30.26	768.6	51	10.6		nnw.			1		1		calm	0	0	sm'h		clear.
S. S. State of Nebraska, N. 55° 20′, W. 6° 35′ †*	30.10	764.5	53	11.7							2			0	0	sm'h		hazy.
S. S. State of Nevada, N. 40° 47′, W. 63° 55′ †	30.08	764.0	63	17.2		ese.			6		10		s.	8 h'r	8 h'r	h'vy	e.	stormy.
S. S. Lepanto, N. 36° 41′, W. 2° 10′ *	30.02	762.5	60	15.6		wsw.			4		3		w.	0	0	r'gh	w.	clear

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Starol Bykhov	29.34	745.3	29.80	756.8	56.8	13.8	81	ne.	9	4			10			0.173	4.4		
Tashkend	28.35	720.0	29.95	760.6	75.9	24.4	31	nw.	7	3		0	1 s			0	0		Terch, A. M.
Tiflis	28.56	725.3	29.91	759.7	77.0	25.0	34	s.	9	4		0	0			0	0		Physical Observatory.
Yernoe	27.53	699.2	29.97	761.3	63.7	17.6	44	w.	5	2		0	4 k			0.197	5.0		
Vlatka	29.31	744.5	29.93	760.1	60.8	16.0	51	wsw.	2	1			0			0	0		
Warsaw	29.28	743.6	29.69	754.2	54.3	12.4	77	nne.	13	6			10			0.075	1.9	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	30.05	763.2	30.35	770.8	31.8	— 0.1	58	w.	2	1			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.10	764.5	50	10.0	93	n			3	5	0	n.		0	0		J. Youngclause.
North Unst			29.90	759.4				sw.			4	1	2	w.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.68	753.8	29.78	756.5	64.4	18.0	50	sw.	5.4	2.4		0	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.86	758.5	29.92	760.0	58.3	14.6	56	nw	5.1	2.3		2	3	ne.		0.063	1.6	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.89	683.0	29.90	759.4	47.1	8.4	77	n.	3.1	1.4		0	6			0.236	6.0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.66	702.5	29.90	759.4	51.4	10.8	61	sw.	9.4	4.2			10			0.028	0.7	covered	The Staff.
Murcia, Met. Obs'y	29.72	754.9	29.84	758.0	70.7	21.5	56	s.	3.4	1.5		2	3	se.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.05	737.9	29.94	760.4	46.4	8.0	83	n.	10.7	4.8		8 n	4 n	e.	ne.	0.024	0.6	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.90	734.0	29.80	756.8	53.8	12.1	55	ne.	12.5	5.6			7			0.252	6.4	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	762.0	30.07	763.7	73.3	22.9	81	sse.	1.1	0.5		0	1 k	w.	e.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.3	29.91	759.7	84.2	29.0	76	ese.	14.8	6.6		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.83	757.6	29.93	760.1	63.5	17.5	75	s.	12.4	5.6		0	7		s.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.91	759.8	30.00	762.1	81.0	27.2	91	se.	1.1	0.5		6 cs	3 k	se.	se.	0	0	d. clouds	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.94	760.4	29.98	761.4	46.0	7.8	57	sw.			2		5			0	0		
Umea	29.98	761.4	30.03	762.7	50.4	10.2	70	s.			4		1			0	0		
Hernosand	29.97	761.3	30.02	762.6	51.8	11.0	50	s.			2		2			0	0		
Stockholm	29.85	758.2	30.03	762.7	53.2	11.8	38	w.			2		8			0	0		
Wisby	29.96	760.9	30.02	762.4	47.1	8.4	48	ne.			4		0			0	0		
Sub-series.																			
Upsala	29.90	759.4	29.98	761.6	53.4	11.9	40	wsw.	4.3	1.9			10			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.24	717.4	29.65	753.1	60.4	15.8	53	nne.			2		9			0	0	covered	The Observatory.
TURKISH.																			
Constantinople			29.63	752.5	77.0	25.0	45	sw.	8	3.5			10		sw.	0	0		The Observatory.
Valona			29.75	755.7	59.4	15.2		s.			1		10			0.59	15.	rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.78	756.4	78.6	25.9	65	sw.			1	0	3 k		w.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.31	668.3			61	16.1	52						10 n		sw.			cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.08	764.0	30.16	766.1	53.4	11.9	64	nw.	5	2.2		7 k	0	w.		0.76	19.3	fair	J. O. Barnes.
Alpena, Michigan	29.53	750.0	30.19	766.8	42	5.6	65	calm	0	0		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.01	635.2	29.83	757.7	37	2.8	53	ne.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.21	691.1	30.05	763.3	39	3.9	82	calm	0	0			10 s		w.	inap.	inap.	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.01	736.8	30.18	766.6	57.0	13.9	69	w.	6	2.7		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.06	763.5	30.08	764.0	51	10.6	90	n.	9	4.0			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	66	18.9	78	n.	2	0.9		2 k	0	ne.		0	0	clear	John Healy.
Baltimore, Maryland	30.13	765.3	30.18	766.6	56	13.3	57	n.	8	3.6		0	0			0.42	10.7	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.00	763.5	30.08	764.0	48.5	9.2	100	ne.	13	5.8			fg.			0.12	3.0	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.68	753.9	29.70	754.4	29.0	— 1.7		nw.	11	4.9			10 n		nw.	inap.	inap.	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.31	719.1	29.87	758.7	45.0	7.2	93	n.	7	3.1		3 k	3 s	ne.	ne.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.27	692.6	30.06	763.5	29	— 1.7	80	calm	0	0			10 s			inap.	inap.	cloudy	S. Wheaton.
Billings, Montana	20.74	679.2	29.92	760.0	39	3.9	82	w.	1	0.4			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.20	716.3	29.99	761.7	35	1.7	82	e.	14	6.3			10 s		e.	0.05	1.3	cloudy	Cyrus Oramer.
Block Island, Rhode Island	30.00	762.0	30.03	762.7	44	6.7	93	ne.	19	8.5			10s; fg			0.20	5.1	cloudy	J. T. Elker.
Boise City, Idaho	27.15	689.6	29.99	761.7	48	8.9	80	n.	1	0.4			10 s			0	0	cloudy	J. Kenealy.
Boston, Massachusetts	29.96	761.0	30.12	765.0	42.0	5.6	100	n.	13	5.8			10s; fg			0.20	5.1	cloudy	O. B. Cole.
Brownsville, Texas	30.06	763.5	30.10	764.5	68.3	20.2	92	e.	2	0.9		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.50	749.3	30.24	768.1	42	5.6	88	s.	6	2.7		0	0			0	0	clear	W. Finn.
Buford, Fort, Dakota	28.07	713.0	30.05	763.3	36	2.2	82	ne.	12	5.4			10 s			inap.	inap.	cloudy	F. A. Mellen.
Burlington, Vermont	29.85	758.2	30.14	765.5	46.0	7.8	82	n.	7	3.1			10 s		w.	0.33	8.4	cloudy	D. N. Farnell.
Cairo, Illinois	29.95	760.7	30.35	770.9	55.0	13.1	64	se.	5	2.2		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.10	764.5	30.12	765.0	55	12.8	93	n.	23	10.3			10 ks		n.	inap.	inap.	cloudy	A. K. Alderson.
Cape May, New Jersey	30.06	763.5	30.08	764.0	51.0	10.6	86	n.	14	6.3			10 s			0.05	1.3	cloudy	W. E. Smith.
Cape Mendocino, California	29.06	738.1	29.74	755.4	48	8.9	100	calm			0		fg.			0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	72	22.2	84	e.	4	1.8		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.02	762.5	30.07	763.8	64.0	17.8	90	nw.	4	1.8		6 ck	0	sw.		0.23	5.8	fair	J. H. Smith.
Charlotte, N. Carolina	29.31	744.5	30.15	765.8	62.0	16.7	67	ne.	6	2.7		0	0			0.11	2.8	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.44	747.8	30.25	768.3	57.0	13.9	64	ne.	6	2.7		0	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.00	609.6	29.87	758.7	44.2	6.8	45	w.	2	0.9		6 c	0	w.		0	0	fair	E. McGovern.
Chicago, Illinois	29.59	756.1	30.29	769.4	50.4	10.2	77	w.	4	1.8		6 ck	0	w.		0	0	fair	John Laurens.
Chincoteague, Virginia	30.07	763.8	30.09	764.3	54	12.2	93	ne.	23	10.3			10 s		ne.	0.02	0.5	cloudy	O. F. Dickens.
Cincinnati, Ohio	29.69	754.1	30.34	770.6	51.0	10.6	86	nw.	1	0.4		0	0			inap.	inap.	clear	L. Dunne.
Cleveland, Ohio	29.53	750.0	30.26	768.6	46	7.8	85	w.	4	1.8		1 k	0	w.		0	0	clear	J. B. Newlin.
Coleman City, Texas	28.35	720.1	30.14	765.5	60	15.6	87	se.	1	0.4		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.44	747.8	30.28	769.1	50	10.0	64	w.	3	1.3		0	0			0.02	0.5	clear	D. Cuthbertson.
Concho, Fort, Texas	28.23	717.0	30.13	765.3	58.0	14.4	86	calm	0	0		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.60	751.8	30.24	768.1	51	10.0	72	se.	4	1.8		8 k	0	w.		0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	30.00	762.0	61	16.1	25	sw.	2	0.9			5ks		sw	0	0	fair	J. Williams.
Dayton, Washington T'y	28.13	714.5	29.88	758.9	45	7.2	71	ne.	2	0.9		7 k	0			0	0	fair	D. Moore.
Deadwood, Dakota	25.20	641.0	29.78	756.4	42	5.6	80	nw.	1	0.4		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.08	764.0	30.10	764.5	52	11.1	93	n.	15	6.7			10s; hz		n.	inap.	inap.	cloudy	T. S. Townsend.
Denver, Colorado	24.68	626.9	29.84	757.9	49.0	9.4	44	s.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.25	742.9	30.14	765.5	54	12.2	80	s.	8	3.6		7 cs	0	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.57	751.1	30.27	768.8	45.0	7.2	76	w.	5	2.2		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.47	697.7	30.02	762.5	56	13.3	69	sw.	4	1.8		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.54	750.3	30.24	768.1	49.7	9.8	85	calm	0	0			10 ks		nw.	inap.	inap.	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.43	747.5	30.18	766.6	43	6.1	68	ne.	4	1.8			10 s			0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.40	746.7	30.20	767.1	66.0	18.9	84	se.	1	0.4		0	4 s			0	0	fair	F. Belford.
Eagle Rock, Idaho	25.17	639.3	29.85	758.2	37	2.8	75	n.	6	2.7		6 cs	0			0	0	fair	H. R. Boynton.
Eastport, Maine	30.12	765.0	30.19	766.8	38.0	3.3	82	e.	10	4.5			10 n		ne.	0.06	1.5	light rain	D. C. Murphy.
Elliott, Fort, Texas	27.30	694.9	30.06	763.5	55	12.8	64	s.	12	5.4		6 k	0	s.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.30	668.0	29.94	760.5	63.0	17.2	63	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.54	750.3	30.20	768.6	38	3.3	72	calm	0	0		0	0			0	0	clear	O. A. Shaw.
Escanaba, Michigan	29.52	749.8	30.18	766.6	45.2	7.3	78	calm	0	0		5c; cs	2 s	nw.	nw.	0	0	fair	George Heathcote.
Galveston, Texas	30.14	765.5	30.18	766.6	70	21.1	78	e.	11	4.9		5 cs	0			0	0	fair	E. O'C. Macluerney.
Grand Haven, Michigan	29.60	751.8	30.20	768.6	47.0	8.3	68	s.	6	2.7		1 ck	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	29.84	757.9	53.5	11.9	47	e.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.04	763.0	30.00	763.5	60	15.6	93	n.	27	12.1			10 k		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.76	654.3	29.93	760.2	40	4.4	92	n.	1	0.4			10 n			0.28	7.1	light rain	N. C. Smith.
Huron, Dakota	28.48	723.4	29.84	757.9	50.9	10.5	79	e.	8	3.6		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.52	749.8	30.31	769.9	46.0	7.8	83	nw.	1	0.4		0	0			0	0	clear	O. F. R. Wappenhans.
Indianola, Texas	30.12	765.0	30.16	766.1	73.0	22.8	70	e.	11	4.9		3 c	0	w.		0	0	clear	I. A. Reed.
Jacksboro, Texas	29.01	736.8	30.16	766.1	60	15.6	54	se.	0	2.7		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	30.07	763.8	30.11	764.8	67	19.4	93	ne.	1	0.4		0	fg.			0	0	clear	J. W. Smith.

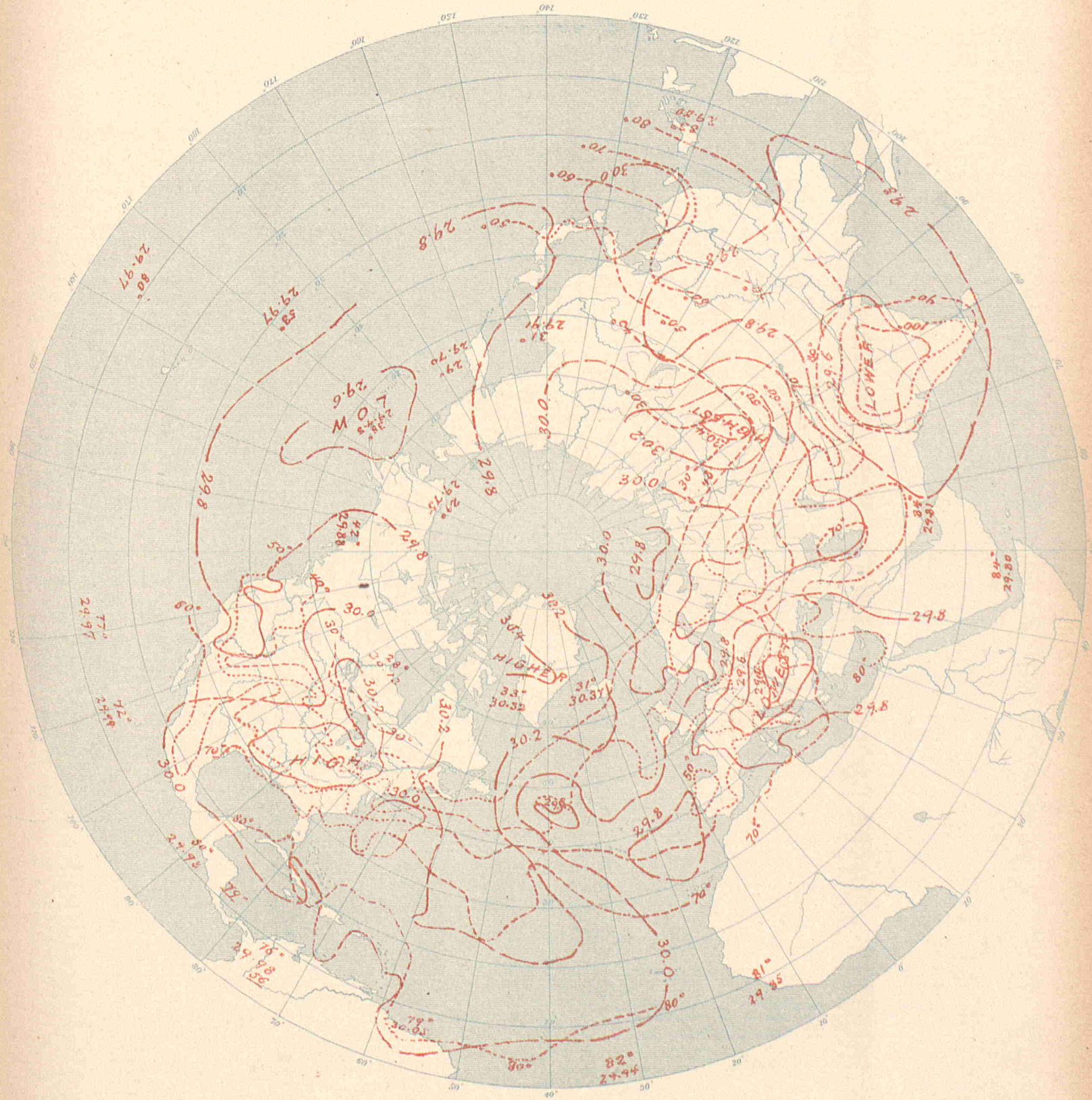
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.50	698.5	29.94	760.5	37	2.8	64	n.	8	3.6		4 k	2 s			0	0	fair	W. B. Lamar.
Keokuk, Iowa	29.58	751.3	30.22	767.6	54.0	12.2	74	se.	4	1.8		1 k	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	79.0	26.1	65	ne.	3	1.3		6 cs	1 ks	nw.		0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.07	763.8	30.09	764.3	55	12.8	96	ne.	32	14.3			10 s		ne.	0	0	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	29.24	742.7	30.26	768.6	53.8	12.1	74	ne.	4	1.8		0	0			inap.	inap.	clear	J. A. Cody.
La Crosse, Wisconsin	29.41	747.0	30.17	766.3	48	8.9	77	s.	4	1.8			10 s			0.04	1.0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.29	744.0	30.17	766.3	58	14.4	58	s.	4	1.8		3 cs	1 k	sw.		0	0	fair	A. W. Browne.
Lewiston, Idaho	29.04	737.6	29.88	758.9	47.2	8.4	82	se.	2	0.9		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.94	760.5	30.25	768.3	55	12.8	86	ne.	2	0.9		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.52	749.8	29.92	760.0	53	11.7	100	e.	16	7.2			10 n			0.78	19.8	heavy rain	T. S. Collins.
Louisville, Kentucky	29.74	755.4	30.29	769.4	51	10.6	72	n.	4	1.8		0	0			inap.	inap.	clear	L. M Dey.
Lynchburg, Virginia	29.48	748.8	30.16	766.1	60	15.6	75	w.	1	0.4		0	0			0.57	14.5	clear	Lou's Duane.
Mackinaw City, Michigan	29.52	749.8	30.17	766.3	48.0	8.9	56	sw.	8	3.6		0	0			0	0	clear	D. H. Notson.
Macon, Fort, North Carolina	30.08	764.0	30.09	764.3	60.0	15.6	93	n.	16	7.2		0	8 k		n.	0.04	1.0	cloudy	William Daly.
Maginnis, Fort, Montana	25.62	650.7	30.03	762.7	34	1.1	82	e.	3	1.3			10 s			0.03	0.8	cloudy	F. Burke.
Marquette, Michigan	29.49	749.0	30.21	767.3	40	4.4	65	n.	9	4.0		0	0			0	0	clear	E. H. Thompson.
Memphis, Tennessee	29.93	760.2	30.26	768.6	58	14.4	58	ne.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.52	749.8	30.26	768.6	49	9.4	63	w.	8	3.6		9 cs	0	nw.		0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.58	675.1	29.88	758.9	52	11.1	74	sw.	2	0.9			9 s			0	0	cloudy	J. H. Young.
Mobile, Alabama	30.12	765.0	30.16	766.1	66.3	19.1	66	n.	9	4.0		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	29.91	759.7	30.14	765.5	63.3	17.4	61	ne.	1	0.4		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.06	738.1	30.04	763.0	35	1.7	100	e.	12	5.4			10 n		e.	0.01	0.3	light rain	H. Bessant.
Mt. Washington, N. H.	23.82	605.0	30.00	762.0	32.2	0.1	98	nw.	20	8.9			fg.		nw.	0.76	19.3	dense fog	S. W. Beall.
Nashville, Tennessee	29.71	754.6	30.28	769.1	54.0	12.2	74	ne.	4	1.8		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.97	761.2	30.09	764.3	47	8.3	86	n.	10	4.5		10 cs	hz.	sw.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.05	763.3	30.10	764.5	51	10.6	80	n.	6	2.7		5 k	0	n.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.16	766.1	69.5	20.8	66	ne.	7	3.1		0	0			0	0	clear	H. C. Smyth.
New York, New York	29.94	760.5	30.12	765.0	53	11.7	83	n	7	3.1		2 cs	6 s	n.	n.	0.02	0.5	cloudy	G. E. Franklin.
Norfolk, Virginia	30.09	764.3	30.12	765.0	59	15.0	81	n.	12	5.4			10 s		n.	0.01	0.3	cloudy	Wm. Davis.
North Platte, Nebraska	26.94	684.3	29.81	757.2	55.6	13.1	68	e.	5	2.2		0	hz.			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.87	758.7	29.91	759.7	41.0	5.0	92	calm	0	0			fg.			0.11	2.8	dense fog	J. Dascomb.
Omaha, Nebraska	28.88	733.5	30.04	763.0	58.5	14.7	62	s.	13	5.8		0	7 k		s.	0	0	fair	A. Pollak.
Ooglaamie, Alaska	29.73	755.1	29.75	755.6	28.8	— 1.8	100	wsw.	8	3.6			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.89	759.2	30.22	767.6	42.0	5.6	82	w.	8	3.6		0	1 s			0.29	4.8	clear	J. G. Linsley.
Palestine, Texas	29.68	753.9	30.22	767.6	59.0	15.0	87	ne.	6	2.7		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	70.1	21.2	56	ne.	10	4.5		1 ck	0			inap.	inap.	clear	M. McGauran.
Philadelphia, Pa	30.04	763.0	30.14	765.5	54	12.2	80	n.	18	8.0		2 cs	5 k	nw.	n.	0.25	6.3	clearing	T. F. Townsend.
Pike's Peak, Colorado	17.91	454.9	29.97	761.2	22	— 5.6	80	sw.	32	14.3		4 cs	0			0	0	fair	H. Hall.
Pioche, Nevada	23.87	606.3	29.79	756.7	48.0	8.9	26	s.	12	5.4		0	1 s		sw.	0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.45	748.0	30.25	768.3	54.0	12.2	66	n.	4	1.8		0	0			0.06	1.5	clear	W. A. Reid.
Poplar River, Montana	27.97	710.4	30.09	764.3				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.54	750.3	30.22	767.6	44.9	7.2	83	sw.	6	2.7		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.06	763.5	30.11	764.8	43.2	6.2	94	ne.	7	3.1			10 n		ne.	0.13	3.3	light rain	W. W. Eichelberger
Portland, Oregon	29.72	754.9	29.79	756.7	49.5	9.7	88	nw.	8	3.6		3 k	5 ks	nw.	n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					61	16.1	78	n.	18	8.0		0	8 k		n.	0.02	0.5	cloudy	F. P. Chaffee.
Prescott, Arizona	24.68	626.9	29.78	756.4	46.0	7.8	34	s.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.02	762.5	30.05	763.3	42	5.6	92	n.	11	4.9			10 n			0.11	2.8	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	73.5	23.1	82	ne.	5	2.2		0	hz.			0	0	clear	W. J. Evans.
Red Bluff, California	29.47	748.5	29.82	757.4	49	9.4	93	s.	4	1.8			10 ks		s.	1.16	29.5	cloudy	J. R. Williams.
Rochester, New York	29.58	751.3	30.24	768.1	45	7.2	76	nw.	11	4.9		0	0			inap.	inap.	clear	E. W. McGann.
Roseburg, Oregon	29.21	741.9	29.76	755.9	48.2	9.0	87	calm	0	0		0	8 k		nw.	inap.	inap.	cloudy	J. J. Nanry.
Sacramento, California	29.70	754.4	29.78	756.4	50.0	10.0	93	ne.	10	4.5			10 n			1.15	29.2	light rain	J. A. Barwick.
St. Louis, Missouri	29.72	754.9	30.31	769.9	51.0	10.6	93	se.	8	3.6		1 c	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.61	752.1	29.64	752.8	33	0.6	100	se.	19	8.5			10 n			inap.	inap.	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.23	742.4	30.07	763.8	49.0	9.4	89	se.	11	4.9		4 cs	6 s	w.		0.02	0.5	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.31	744.5	30.17	766.3	27	— 2.8	77	ne.	5	2.2			10 s			0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	26.46	646.7	29.78	756.4	60	15.6	46	calm	0	0		2 k	0			0	0	clear	J. Craig.
San Antonio, Texas	29.47	748.5	30.17	766.3	65	18.3	84	se.	3	1.3		0	0			0	0	clear	J. H. Davis.
San Diego, California	29.87	758.7	29.94	760.5	57.3	14.1	64	se.	8	3.6			10 s			0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.08	764.0	30.11	764.8	50.0	10.0	93	n.	4	1.8			fg.			0	0	dense fog	B. A. Blundon.
Sanford, Florida	30.02	762.5			73	22.8	82	n.	1	0.4		0	0			0	0	clear	J. B. Marbury.
San Francisco, California	29.67	753.6	29.74	755.4	53	11.7	90	se.	4	1.8			10 n		se.	0.96	24.4	light rain	N. Gorom.
Santa Fé, New Mexico	23.29	591.6	29.90	759.4	54	12.2	33	se.	15	6.7		4 c	0			0	0	fair	H. U. Jones.
Savannah, Georgia	30.00	762.0	30.10	764.5	71	21.7	76	se.	5	2.2		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.39	670.3	29.99	761.7	35	1.7	89	sw.	1	0.4			10 s			0	0	cloudy	A. L. Matthews.
Shreveport, Louisiana	30.00	762.0	30.24	768.1	59.3	15.2	87	e.	3	1.3		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.92	734.6	30.14	765.5	55	12.8	86	s.	1	0.4		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.82	757.4	29.88	758.9	41.5	5.3	88	ne.	4	1.8			10 s		ne.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.78	756.4	30.26	768.6	56.0	13.3	74	e.	6	2.7		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.04	763.0	30.08	764 0	63	17.2	81	n.	9	4.0		1 c	5 k		n.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.95	760.7	42	5.6	83	e.	1	0.4		0	9 k			0.39	9.9	cloudy	John F. Hemenway.
Springfield, Illinois	29.63	752.6	30.30	769.6	50	10.0	64	s.	7	3.1		0	0			0	0	clear	T. B. Jennings.
Springfield, Missouri	28.81	731.8	30.23	767.8	55.5	13.1	66	se.	9	4.0		3 c	0	nw.		0	0	clear	J. H. Bryce.
Starkville, Miss	29.76	755.9	30.24	768.1	59	15.0	70	ne.	7	3.1		0	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.19	716.0	30.02	762.5	32	0.0	88	ne.	17	7.6			10 ks		e.	inap.	inap.	cloudy	A. Schneider.
Stockton, Fort, Texas	27.07	687.6	30.08	764.0	64	17.8	90	se.	16	7.2		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.01	762.2	30.06	763.5	43.0	6.1	93	ne.	18	8.0			10 s		ne.	0.39	9.9	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.18	690.4	29.85	758.2	49	9.4	40	e.			1	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.59	751.6	30.27	768.8	50	10.0	72	w.	4	1.8		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.49	698.2	29.83	757.7	53	11.7	40	se.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.40	748.3	29.48	748.8	38	3.3	82	s.	4	1.8			10 s			0.05	1.3	cloudy	Samuel Applegate.
Verde, Fort, Arizona					48	8.9	38	se.			4	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.98	761.5	30.23	767.8	60.5	15.8	65	ne.	3	1.3		0	0			0	0	clear	James Kenealy.
Visalia, California	29.41	747.0	29.78	756.4	56.3	13.5	80	s.	6	2.7			10 s		sw.	0.08	2.0	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.38	619.2	29.86	758.4	36.9	2.7	83	w.	4	1.8		3 c;k	0			0	0	fair	T. M. Ambler.
Washington, D. C.	30.07	763.8	30.18	766.6	53.8	12.1	61	nw.	9	4.0		0	0			0.51	13.0	clear	T. B. Harrison.
West Las Animas, Colorado	25.98	659.9	29.83	757.7	68.4	20.2	54	sw.	35	15.6		10 cs	0	sw.		0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.59	751.6	30.19	766.8	49	9.4	77	w.	5	2.2			8 ks		nw.	0.10	2.5	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.04	763.0	30.09	764.3	64	17.8	84	n.	7	3.1		5 k;hz	0	n.		inap.	inap.	fair	Samuel A. Haney.
Winnemucca, Nevada	25.38	644.6	29.73	755.1	38	3.3	76	ne.	6	2.7		0	4 s		sw.	0	0	fair	J. Grover.
Yankton, Dakota	28.62	726.9	29.90	759.4	49	9.4	71	se.	5	2.2		6 cs	0			0	0	fair	J. H. Atfield.
Yuma, Arizona	29.66	753.4	29.80	756.9	56.5	13.6	57	nw.	3	1.3		0	hz.			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8			56.0	13.3	74	calm	0	0			9ks;s			0.03	0.8	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.02	762.5			70	n.	1	0.4		0	1 s			0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.05	763.3	79	26.1	87	se.			2	4 c	5 k	e.		0	0		Dr. O. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761.5	76	24.4	94	calm			0		10 ks		calm	3.18	80.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79	26.1	98	ne.			1	4 ks		ne.		0	0		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
Santiago de Cuba, W. I	29.99	761.7	30.02	762.5	78	25.6	76	nw.	2	0.9		3 cs	0			0	0		R. Mason.
York Factory, B. A.	30.06	763.5	30.13	765.3	27.5	— 2.5	94	n.	18	8.0			10 n		n.	0.05	1.3	snowing	Fortesque & Wood.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Bellary	28.19	716.0			100.5	38.1	25	se.	6	2.7		4 ck	4			0	0	d. clouds	
Zanzibar			29.86		82.3	27.9	72	ssw.	8.3	3.7			5			0	0	d. clouds	
ITALIAN.				758.4															
Udine	29.13	739.9	29.53	750.1	59.5	15.3	74	w.	1.8	0.8			10			0.394	10.0		Prof. Giovanni Clodig.
Milan	29.04	737.7	29.56	750.7	64.8	18.2	55	ssw.	4.3	1.9			6	ssw.		0	0		Prof. G. V. Schiapparelli.
Padua	29.43	747.5	29.54	750.2	60.1	15.6	65	sw.	13.6	6.1			10	sw.		0.043	1.1		Prof. Dott. Lorenzoni.
Moncalieri	28.64	727.4	29.53	750.1	63.3	17.4	65	se.	8.1	3.6			8	n.		0	0		Prof. F. F. Denza.
Genoa	29.39	746.4	29.58	751.3	60.8	16.0	69	sw.	3.1	1.4			10	sw.		0.028	0.7		Prof. G. M. Garibaldi.
Mondovi	27.67	702.7	29.56	750.7	64.0	17.8	36	ese.			2		8			0	0		Prof. D. C. Bruno.
Pesaro	29.44	747.7	29.48	748.9	57.2	14.0	84	n.	9.8	4.4			10			0	0		Prof. Luigi Guidi.
Florence	29.33	744.9	29.58	751.3	57.2	14.0	69	sw.			2		10			0.276	7.0		Prof. Costantino Pittei.
Leghorn	29.47	748.6	29.56	750.7	58.6	14.8	80	wsw.	18.6	8.3			10	wsw.		0	0		Prof. P. Monte.
Rome	29.46	748.3	29.63	752.6	63.0	17.2	57	w.	8.7	3.9			10			0.524	13.3		Prof. P. Tacchini.
Lecce	29.37	746.0	29.62	752.3	63.0	17.2	47	sw.	31.1	13.9			7	w.		0	0		Prof. C. de Giorgi.
Cosenza	28.84	732.4	29.71	754.6	57.9	14.4	74	ssw.	3.1	1.4			10	sw.		1.457	37.0		Prof. D. Conti.
Cagliari	29.71	754.7	29.79	756.6	65.3	18.5	41	wnw.			6		3	wnw.		0	0		Prof. A. Pacinotti.
Palermo	29.58	751.2	29.82	757.4	65.1	18.4	46	wsw.	19.9	8.9			5	wnw.		0	0		Prof. G. Caccintore.
Syracuse	29.75	755.7	29.80	756.8	68.4	20.2	48	wsw.	23.7	10.6			5	w.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.17	740.9	29.69	754.2	57.0	13.9	71	sw.	10.5	4.7			5	w.		0.732	18.6		Prof. F. Brioschi.
Stelvio	21.84	554.7			34.2	1.2	64	ne.			2		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	21.84	554.8			39.2	4.0	61	nw.			2		10			0	0		Prof. P. F. Denza.
JAPANESE.																			
Akita	29.73	755.3	29.76	755.9	45.0	7.2	72	w.			4	0	7 ck		w.	0.220	5.6	cloudy	H. Hattori.
Awomori	29.66	753.3	29.70	754.4	42.0	5.6	79	sw.	11.2	5.0		0	6 s;ks			0.555	14.1	fair	K. Ogawa.
Hamamatsu	29.82	757.4	29.85	758.1	51.8	11.0	75	w.			2	0	0			0	0	clear	
Kagoshima	30.07	763.7	30.08	764.0	51.0	10.6	80	nw.			2	0	0			0	0	clear	G. Miyanohaza.
Kioto	29.76	755.9	29.94	760.4	49.1	9.5	89	nnw.	0.5	0.2		0	7 s;ck			0.033	0.8	cloudy	M. Tojima.
Missaka	29.92	759.9	29.94	760.6	55.2	12.9	59	wsw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.60	751.8	29.71	754.6	47.0	8.3	62	wsw.	2.1	0.9		0	1 s			0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.86	758.4	30.06	763.5	55.9	13.3	62	n.	1.8	0.8		0	1 s			0	0	clear	S. Takehayashi.
Niigata	29.81	757.2	29.84	757.9	50.0	10.0	69	w.	13.4	6.0			10ck;s		w.	0.120	3.0	overcast	M. Morita.
Nobiru	29.75	755.7	29.77	756.1	46.1	7.8	81	nnw.	17.2	7.7		0	3 ks;s		nnw.	0.055	1.4	fair	H. Midzushina.
Numazu	29.72	755.0	29.76	755.9	57.5	14.2	60	w.			4	0	1 ks			0	0	clear	R. Kaneda.
Osaka	29.92	760.0	29.94	760.4	49.0	9.4	87	ne.	3.6	1.6		0	7 s			0.100	2.5	fair	H. Omura.
Tokei Obs'y, Yeddo	29.68	753.9	29.76	755.8	53.2	11.8	69	nne.	5.8	2.6		0	2 s		nw.	0	0	clear	The Staff.
Wakayama	29.90	759.4	29.95	760.7	54.4	12.4	67	nw.	5.5	2.5		0	0			0.031	0.8	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.78	756.4	29.97	761.2	77.7	25.4	69	ene.	11.5	5.1		1 cs;c	4 k;ks		w.	e.	0.02	0.5	fair	The Staff.
MEXICAN.																			
Guanajuato	23.77	603.7	29.99	761.7	61.0	16.1	76	sw.	inap.	inap.			10 kn		sw.	0.257	6.5	covered	Prof. Vicente Fernandez.
Leon	24.42	620.3	30.14	765.5	56.3	13.5	93	nw.	2.0	0.9		10 c;ck	0	nw.		0.111	2.8	foggy	Prof. M. Leal.
Mazatlan	29.75	755.6	30.01	762.2	70.0	21.1	92	ne.	1.6	0.8		0	0			0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Zacatecas																			J. A. Bonilla, M. E.
Sub-series.																			
Altata					67	19.4	90	ne.	9.2	4.1		0	0			0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.82	757.4	29.82	757.4	65.1	18.4		ne.			4					0	0		
Groningen	29.85	758.3	29.91	759.7	60.3	15.7		ene.			3					0	0		
Helder	29.91	759.7	29.91	759.7	50.4	10.2		ne.			4					0	0		
Hellevoetsluis	29.83	757.6	29.83	757.6	65.8	18.8	52	ne.			3					0	0		
Utrecht	29.81	757.2	29.86	758.4	64.9	18.3	56	nne.			3		5			0	0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.85	758.1			77.0	25.0	89	n.	0.5	0.2			9			1.098	27.9		Lt. J. J. Roptman, R. D. N.
NORWEGIAN.																			
Bergen	29.97	761.1	30.03	762.7	46.4	8.0	52	nw.	9	4			4			0	0		
Brono	29.89	759.3	29.93	760.3	43.5	6.4	76	sw.			4		9			0.150	3.8		
Christiania	29.80	757.0	29.95	760.7	58.1	14.5	33	ssw.	9	4			3			0	0		
Gjæsvær	29.76	756.0	29.79	756.6	36.1	2.3		wsw.			7		10						
Lodingen	29.84	757.8	29.88	759.0	38.8	3.8	81	wsw.			2		10			0.512	13.0	raining	
PORTUGUESE.																			
Angra, Azores	29.79	756.6	29.95	760.6	59.4	15.2	75	nne.	6.3	2.8			4			0.276	7.0		Dr. J. A. Sampaio.
Campo Major	28.81	731.8	29.83	757.6	48.6	9.2	97	ne.	9.4	4.2			10			0.504	12.8		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.66	753.4	29.75	755.6	64.6	18.1	72	sw.	8.7	3.9			1			0.465	11.8		Capt. D. A. de Ounha.
Lisbon, Observatory	29.47	748.5	29.81	757.1	49.1	9.5	97	ene.	20.6	9.2			10			0.224	5.7	raining	The Staff.
Ponta Delgada, Azores	29.81	757.2	29.88	759.0	59.4	15.2	60	nne.	15.0	6.7			3			0.094	2.4		
Saint Paul de Loando																			
Serra da Estrella	25.03	635.7	29.88	758.9	33.3	0.7	100	ese.	16.8	7.5			10			0.118	3.0	foggy	
RUSSIAN.																			
Akmolinski	29.09	738.9	30.17	766.4	50.9	10.5	36	ese.	11	5		0	0			0	0		Major K. Lasarew.
Archangel	30.02	762.6	30.04	763.1	45.0	7.8	41	calm	0	0		0	4 ks			0	0		Capt. Sseliwerstow.
Ashurada	30.11	764.9	30.02	762.5	67.5	19.7	75	nne.	9	4		7 ck	0			0	0		
Astrakhan	30.13	765.3	30.05	763.2	75.0	23.9	45	e.	7	3		0	7 k			0	0		Capt. Wisganow.
Baku	30.06	763.5	30.01	762.3	65.3	18.5	76	sse.	5	2		0	0			0	0		
Barnaul	29.91	759.8	30.45	773.4	27.1	— 2.7	70	e.	5	2			9			0	0		Meteorological Obs'y
Bielosersk	29.64	752.8	30.12	765.0	43.2	6.2	56	n.	5	2		3 ck	0			0	0		
Dorpat	29.74	755.5	29.99	761.8	52.0	11.1	49	ne.	11	5		cs	4 k			0.240	6.1		Observatory.
Ekaterinburg	29.04	737.6	30.00	761.9	54.1	12.3	30	se.	16	7			10 n			0	0		Meteorological Obs'y.
Elissawetgrad	29.21	742.0	29.64	752.8	75.6	24.2	39	sse.	11	5		8 cs	0			0	0		
Irkutsk	28.15	715.0	29.81	757.2	39.2	4.0	98	calm			0		10						
Kasalinsk	29.42	747.3	29.60	751.8	83.1	28.4	25	calm	0	0		0	0						
Kasan	29.74	755.5	30.01	762.3	54.5	12.5	56	nnw.	2	1		0	1			0	0		Observatory.
Kem	29.93	760.2	29.98	761.5	50.0	10.0	43	sw.	18	8			9 ks			0	0		
Kertch	29.69	754.1	29.71	754.7	68.9	20.5	42	sse.	5	2		0	5 k			0	0		Lagorio & Sastyrez.
Kieff	29.03	737.3	29.65	753.1	56.7	13.7	83	e.	9	4			10ks;n			0.031	0.8	heavy cld's.	Observatory.
Koslov	29.52	749.8	30.05	763.3	58.8	14.9	58	ese.	18	8			10 ks			0	0		
Libau	29.89	759.2	29.91	759.8	55.6	13.1	44	ene.	9	4			2			0	0		E. Quaas.
Lugan	29.66	753.3	29.84	757.8	77.9	25.5	37	ese.	34	15			5			0	0	light clouds	Meteorological Obs'y.
Moscow	29.69	754.0	30.15	765.9	61.7	16.5	41	s.	8.9	4.0		0	7 ks			0	0		Meteorological Obs'y
Nikolaiev	29.62	752.4	29.70	754.3	74.8	23.8	46	s.	22	10		4 cs	0			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.83	757.6	29.91	759.8	31.1	— 0.5	64	calm	0	0			10			0	0		Iwanow.
Pekin, China	29.65	753.2	29.80	756.8	64.0	17.8	52	calm	0	0		0	1 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.67	753.6	30.00	762.1	83.5	28.6	21	nw.	2.2	1.0		0	0			0	0		
Petrozavodsk	29.88	759.0	30.08	764.1	45.0	7.2	50	se.	11	5		cs	5 k			0	0		Dr. Bergmann.
Pinsk	29.14	740.1	29.63	752.5	55.8	13.2	87	ene.	18	8			10 n			0.087	2.2	raining	
Poti	29.77	756.2	29.80	757.0	89.8	32.1	60	e.	11	5		0	0			0	0		
St. Petersburg	30.04	763.0	30.06	763.6	50.5	10.3	32	ese.	5	2		0	0			0	0		Central Physical Obs'y.
Samarkand	27.59	700.8	29.99	761.8	67.8	19.9	49	calm	0	0		1 c	0			0.004	0.1		
Semipalatinsk	29.76	755.9	30.45	773.3	37.9	3.3	34	ne.	9	4			2			0	0		Major Lasarew.
Sevastopol	29.43	747.4	29.64	752.9	81.0	27.2	28	ssw.	20	9		5 cs	0			0.079	2.0		

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Otranto, N. 47° 38′ W. 36° 00′	29.99	761.7	48	8.9		nw.			7		4		nw.	2 h'r	2 h'r	cross	var.	fair.
S. S. Romano, New York, N. Y†	30.04	763.0	57	13.9		nne.			3		8		nne.					cloudy.
S. S. Salerno, N. 35° 10′, E. 16° 46′			64	17.8		wsw.			4		0			0	0	sm'h	wsw.	clear.
S. S. Dominion, N. 48° 46′, W. 61° 12′*†	30.30	769.6	32	0.0		calm			0		10							overcast.
S. S. Toronto, N. 46° 50′, W. 30° 45			56	13.3		ese.			4				ese.	0	0	mod.	ese.	clear.
S. S. Oregon, N. 55° 01′, W. 23° 23′	30.20	767.1	51	10.6		nnw.			1		2		nnw.			mod.	nw.	clear.
S. S. Lake Huron, N. 48° 42′ W. 68° 09′	30.13	765.3	35	1.7		ssw.			2		10		sw.	4 h'r	4 h'r	sm'h		rainy.
S. S. Lake Manitoba, N. 49° 36′, W. 29° 38′	30.01	762.2	56	13.3		sse.			6		4		sse.	1 h'r	1 h'r	mod.	sse.	fair.
S. S. Daniel Steinmann, New York, N. Y†	30.12	765.0	56	13.3		nne.			3		10		nne.	4 h'r	4 h'r			cloudy.
S. S. Norman, N. 41° 13′, W. 71° 47′	30.01	762.2				n.			5		fg.		n.	light	light	long	se.	dense fog.
S. S. Saxon, Philadelphia, Pa†	30.15	765.8				n.			6		5		nw.	0	0			fair.
S. S. Baltic, off Kinsale, Ireland*	30.03	762.7	52	11.1	79	e.			4		5		e.	0	0	sm'h		fair.
S. S Celtic, N. 50° 01′, W. 24° 40′†	30.19	766.8	55	12.8		s.			2		8		w.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Antonio Lopez, N. 22° 50′, W. 78° 43′	30.09	764.3	78.5	25.8	71	calm			0		3			0	0	sm'h		clear.
Schr. Abbie H. Gheen, New York, N. Y†	30.10	764.5	56	13.3		nne.			3					0	0			fair.
Bk. Aquidneck, N. 24° 32′, W. 64° 25′						se.			2				se.	0	0	light	se.	clear.
Bk. Alpha, N. 39° 50′, W. 67° 10′*†	29.92	760.0	50	10.0		e.			5		10		se.	4 h'r	4 h'r	mod.	e.	raining.
Bk. Alcira, N. 28° 28′, W. 65° 22′	30.11	764.8	76	24.4		sse.			4		10		var.	0	0	mod.	sse.	hazy.
Bk. Adelaide, N. 31° 13′, W. 54° 48′*†	30.35	770.9	75	23.9		e.			2		0			0	0	light	e.	clear.
Schr. Annie R. Lewis, N. 32° 58′, W. 69° 42′ †	29.99	761.7	72	22.2		sw.			5		8		sw.	5 h'r	5 h'r	r'gh	s.	misty.
Schr. Author Burton, Boston, Mass						ne.			1		10		ne.	0	0			threatening.
Bk. Aureola, St. Vincent, W. I†	29.90	759.4	88	31.1		ne.			3		3		ne.	0	0			clear.
Bk. Achille F, N. 36° 15′, W. 22° —′†	29.70	754.4	59	15.0	77	nne.			5		4		var.	10 h'r	10 h'r	mod.	ne.	fair.
Bk. Annie R. Storer, N. 29° 12′, W. 69° 04′ †	30.06	763.5				sw.			4		3		s.	1 h'r	1 h'r	sm'h	sse.	fair.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.95	760.7	81	27.2		ene.			1		4		ene.	0	0			fair.
Bk. Champion, N. 21° 00′. W. 37° 00′†	30.20	767.1	74	23.3	72	ene.			1		2		ene.	0	0	short	ne.	clear.
Bkt. C. S. Bushnell, N. 34° 09′, W. 52° 40	30.24	768.1				w.			2		5		nw.	0	0	mod.	ne.	fair.
Ship. Cornelius, N. 49° 38′, W. 29° 04′ †	29.97	761.2	53.4	11.9		se			6		4		se.	0	0	cross	var.	fair.
Bk. Commerce, N. 33° 57′ W. 70° 28′			70	21.1		wnw.			2		2		wnw.	7 h'r	7 h'r	long	s.	squally.
Bk. Childwall, N. 2° 35′, W. 31° 30′ *	29.84	757.9	82	27.8		ne.			2		9		e.	2 h'r	2 h'r	light	ne.	overcast.
S. David Stewart, N. 30° 25′, W. 74° 52′						n.			2		2		ne.	0	0			clear.
S. S. D. J. Foley, N. 19° 10′ W. 75° 12′*†	30.00	762.0	82	27.8	83	ne.			3		3		ne.	0	0	long	nne.	clear.
Bk. Don Justo, N. 36° 10′, W. 75° 20′						nne.			1		0			0	0	mod.	ene.	clear
Schr. Edith R. Seward, N. 26° 30′, W. 70° 00′ †	30.11	764.8	77	25.0		sw.			1		2		nw.	0	0	mod.	wnw.	clear.
S. E. J. Spicer, Liverpool, Eng	29.94	760.5	49	9.4	93	e.			3		3			rain	rain			clear.
U. S. Fish Com. S. S. Fish Hawk, Quantico Creek, Va†	30.23	767.8	57	13.9	94	nnw.			4		0			0.30	7.6			clear.
Schr. F. E. McDonald, Cedar Keys, Fla †	30.07	763.8				calm			0					0	0			clear.
S. Festina Lente, N. 45° 59′, W. 57° 32′	30.30	769.6	40	4.4		calm			0		5		wnw.	0	0	sm'h		fine.
Bk. George Davis, N. 33° 34′, W. 78° 04′						ne.			1				ne	0	0	sm'h	n.	clear.
Bg. Gipsy Queen, N. 23° 45′, W. 81° —′*†	29.90	759.4				ne.			4				ne.					overcast.
Bk. Godeffroy, N. 30° 38′, W. 71° 15′ *	29.98	761.5	70.2	21.2	91	w.			3		6		var.	sh'rs	sh'rs	mod.		fair.
Bk. Galeon, N. 20° 49′ W. 99° 33′†	29.92	760.0	76	24.4		e.			2		0			0	0	sm'h	ne.	blue sky.
S. Hedwig, N. 37° 32′, W. 60° 19′	30.19	766.8	66.2	19.0	96	ene.			4		5		ssw.	0	0	4	ene.	
Bk. Hattie G. Mcfarland, N. 32° 59′, W. 78° 55′ *†	30.15	765.8	67	19.4		n.			4		3		nw.	0	0	sm'h		fine.
Bk. John H. Pearson, N. 33° 07′, W. 52° 00′						wnw.			1				nw.	0	0	long	nw.	clear.
Schr. Isabel Alberto, N. 32° 10′, W. 77° 50′†	30.00	762.0				nne.			2		2		nne.	light	light	sharp	ne.	fair.
Bk. Cato, Setubal, Portugal*†	29.85	758.2				ne.			3		4		e.	rain	rain			fair.
Schr. John L. Thomas, N. 30° 00′, W. 79° 50′*†	30.18	766.6				nne.			2		1		nne.	10 h'r	10 h'r	mod.	ene.	clear.
Bg. John Wesley, Baley's Mills, Ga*†	30.00	762.0				nne.			3		8		nne.	0	0			cloudy.
Schr. Jennie N. Huddell, N. 33° 10′, W. 75° 00′†	30.05	763.3	73	22.8	85	n.			5		2		ne.	2 h'r	2 h'r	hv'y	ne.	fair.
Bkt. Josephine, N. 3° 56′, W. 42° 57′ †	29.95	760.7	80	26.7	78	e.			3		10			14 h'r	14 h'r	cross		heavy rain
Schr. Leonessa, N. 33° 11′, W. 76° 50′†	30.13	765.3				ne.			1		2		ne.	0	0	cross		clear.
Bg. L. & W. Armstrong, St. Juan, Porto Rico, W. I*†	30.06	763.5				calm			0		1		ne.	0	0	sm'h		clear.
Light House Tender Laurel, Appalachicola Bay, Fla†	30.09	764.3	71	21.7		n.			1		1		n.	0	0			clear.
Bg. Lilian, N. 24° 20′, W. 58° 52′ †	30.11	764.8	76	24.4		sse.			4		3		sse.	1 h'r	1 h'r	mod.	var.	fair.
Bk. Louise Adelaide, N. 23° 25′, W. 81° 35′ †	29.97	761.2	80	26.7		ne.			1		4		ne.	0	0	sm'h	ne.	fair.
S. S. Madrid, N. 38° 19′, E. 13° 44′†	29.80	756.9	62	16.7	72	w.			6		2		wnw.	0	0	r'gh	nw.	hazy
Schr. Minnie A. Bonsall, Brunswick, Ga†	30.11	764.8	77	25.0		e.			1		0			0	0			clear.
Bkt. Kryolith, N. 55° 00′, W 24° 17′*†	30.22	767.6				ene.			3		2		ene.	0	0	sm'h		clear.
S. Mt. Washington, N. 25° 42′ W. 35° 50′*†	30.24	768.1	75	23.9	64	ne.			4		8		ene.	0	0	high		cloudy.
Bgt. Myrtle, Clementsport, N. S*†	30.00	762.0				ne.			4		10		ne.	20 h'r	20 h'r			raining.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†	29.98	761.5							2		4		n.	sh'rs	sh'rs	short	n.	clear.
Schr. Maud Briggs, N. 37° —′, W. 71° —′ *†	30.00	762.0				nne.			0		10		ne.	0	0	r'gh	ne.	overcast.
Bg. O. C. Clary, N. 32° 50′, W. 71° 58′ *†	29.85	758.2	68	20.0		nw.			3		5		n.			sm'h	n.	fair.
S. S. Raleigh, N. 26° 40′, W. 73° 45 †	30.08	764.0	72	22.2		ssw.			1		3		calm			sm'h		fine.
S. Rudolph, N. 45° 58′ W. 20° 37′			55.5	13.1		ese.			4		8		se.	1 h'r	1 h'r	mod.	var.	cloudy.
Bk Rebus, N. 43° 22′, W. 39° 23′	29.88	758.9	40	7.8		nw.			6		7		nw.	sq 'lls	sq 'lls	r'gh	nw.	squally.
Bg. Rising Sun, N. 29° 23′, W. 69° 51′*†	29.95	760.7	76	24.4		w.			4		0		w.	0	0	mod.	w.	squally.
Bk. Rosalie, N. 23° 41′, W. 61° 54′ *†	30.12	765.0				ese.			4				ese.	0	0	light	ese.	clear
S. Salisbury, N. 45° 09′, W. 16° 02′ *	29.99	761.7	58.3	14.6	78	calm			0		4		ne.	0	0	mod.	nne.	fair.
Bk. Southern Belle, Huelva, Portugal†	29.77	756.1	60	15.6		ssw.			3		8		sw.	sh'rs	shr's	sm'h		cloudy.
S. St. Francis, N. 6° 30′, W. 31° 13′ †	29.99	761.7	83	28.3	71	ne.			0		4		ne.	0	0	mod.	ne.	fair.
Bk. St. Lawrence, N. 25° 40′, W. 57° 25′*†	30.10	764.5				ese.			4				se.	0	0	light	e.	clear.
S. S. Strathleven, N. 35° 40′, E 15° 38′	29.96	761.0	63.5	17.5	66	w.			4		0			0	0	3	wnw	blue sky.
Bgt. Sunlight, N. 20° 25′, W. 50° 19′						ese.			4		3		ese.	1 h'r	1 h'r	mod.	se.	fair.
Bg. Tenerife, Guantanamo, Cuba, W. I*	29.90	759.4				n.			1		0							
Bk. Usko, New Point Comfort, Va*	30.06	763.5	62	16.7		nnw.			3					0	0			cloudy
S. Vincenzo Accame, N. 30° 20′, W. 43° 02′†	30.23	767.9	69.8	21		nne.			5		2		nne.	2 5-6	h'r	r'gh	n.	fine.
Bk. Winifred, N. 11° 33′, W. 48° 10′ *†	30.10	764.5											e.	0	0		ene.	d. clouds.
S. Wm. Wilcox, N. 32° 58′, W. 78° 54′*†	30.18	766.6				nne.			5		0			0	0	mod.	ene.	
S. Wm. McGilvery, N. 30° 00′, W. 41° 59′*†	30.30	769.6	69	20.6	61	e.			4		8		ne.	0	0	mod.	ne.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.15	765.8	61	16.1	98	e.			1		8							misty.
H. M. S. Boadicea, Cape Town, Cape Colony, Africa	30.01	762.2	63	17.2	89	nnw.			2		7							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.05	763.3	59	15.0	96	sw.			2		10							overcast.
H. M. S. Thetis, S. 34° 30′, W. 51° 14′	30.00	762.0	67	19.4	95	nw.			4		9					3	e.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.01	762.2	60	15.6	100	ssw.	3	1.3	3		10		calm	0.13	3.3	sm'h		hazy.
U. S. S. Enterprise, Cape Town, Cape Colony, Africa*	29.97	761.2	64	17.8	89	nw.			2		5		calm			sm'h		fair.
U. S. S. Galena, Montevideo, Uruguay*	29.98	761.5	60	15.6	94	s.			1		10		s.			sm'h		cloudy.
S. S. Jerome, Amazon River, Brazil*	29.78	756.4	80	26.7		var.			3		2		se.	0	0			clear.
S. S. Archimedes, S. 22° 35′ W. 41° 22′	30.07	763.8				nw.			2		3		calm	0	0	light	se.	clear.
S. S. Hevelius, S. 32° —′, W. 48° —′†	30.24	768.1	74	23.3		nw.			5		6		nw.	0	0	sm'h		fair.
S. S. Ptolemy, S. 9° 30′, W. 33° 30′	30.04	763.0	82.5	28.1	67	e.			0	4 c	k			0.10	2.5	3	ese.	fair.
Bk. Gronsvaer, S. 12° 40′, W. 32° 18′†	29.97	761.3	79.3	26.3		ese.			0		3		ese.	0	0	mod.	ese.	clear.
S. Minnie N. Gerow, S. 19° 30′, W. 38° 57′ †.	30.18	766.6	78	25.6		ese.			4		3		ese.	0	0	sm'h	s.	clear.
S. S. Mendoza, S. 17° 32′, W. 33° 54′ †	30.25	768.3				e.			0				e.	0	0	short	e.	clear.
S. Paramita, S. 50° 52′, W. 48° 05′ †	29.99	761.7	41	5.0		var.			4		5		nnw.	2 h'r	2 h'r	small	s.	fair.
S. Storm King, S. 41° 48′, W. 50° 13′ *†	29.70	754.4				ne.			4		5		ne.	8 h'r	8 h'r	mod.	ne.	fair.
Inchkeith, S. 17° 18′, W. 4° 08′	30.15	765.8	74	23.3	64	ese.			5		4							d clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chusan, China	30.06	763.5	62	16.7	72	calm			0		10	se.						overcast.
H. M. S. Champion, N. 7° 30′, E. 103° 10′	29.80	759.9	83	28.3	91	se.			1		6					1	e.	d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Sappho, N. 8° 56′, W. 79° 31′			79	26.1	86	nw.			3		5	nw.						d. clouds.
H. M. S. Flying Fish, N. 35° 47′, E. 125° 00′	30.04	763.0	52.5	11.4	93	nw.			1		0					1	sw.	blue sky.
H. M. S. Swiftsure, Esquimalt, V. I	29.97	761.2	49	9.4	93	calm			0		10	ssw.						foggy.
H. M. S. Zephyr, N. 37° 33′ E. 121° 25′	29.97	761.2	55	12.8	81	e.			1		0							blue sky.
H.P. M. S. Tamega, Macao, China	29.90	759.4	76.1	24.5	83	e.			6		10			15 h'r	15 h'r			raining.
U. S. Naval Hospital, Yokohama, Japan	29.81	757.2	53	11.7	70	calm			0		0			0	0			clear.
U. S. S. Adams, Port Townsend, Wash. Ter †	29.87	758.7	47	8.3	92	w.			2		2					sm'h		fair.
U. S. S. Monocacy, Nagasaki, Japan	30.02	762.5	60	15.6	71	nnw.			2		2		wnw.					clear.
U. S. S. Palos, Hong Kong, China	29.81	757.1	72	22.2	100	e			4		10		e.					drizzling.
U. S. S. Richmond, Hong-Kong, China*	29.82	757.4	73	22.8	100	se.			5		10		e.	4.0	102.			raining.
S. S. Coptic, N. 38° 19′, W. 125° 13′	29.68	753.9	51.0	10.6	93	nw.			5		9		nw.	10 h'r	10 h'r	rg'h	nw.	raining.
S. S. Oceanic, N. 41° 06′, W. 171° 40′*	29.97	761.2	53	11.7	73	w.			5		7		w.			4	var.	raining.
S. S. City of Chester, Point Reyes, Cal†	29.75	755.6	48	8.9	100	se.			4		10			hv'y	hv'y	light	se.	overcast.
S. S. Oregon, San Francisco, Cal†	29.74	755.4	44	6.7	92	calm			0		10							light rain.
S. S. Willametta, N. 39° 34′, W. 124° 16*†	29.80	756.9	51	10.6	93	nnw.			4		6		nnw.	0.34	8.6	long	nw.	rainy.
S. S. Ancon, N. 36° 06′ W. 121° 48′ †	20.74	755.4	52	11.1	86	sse.			5		10		sse.			r'gh	s.	rainy.
S. S. Dakota, N. 43° 26′, W. 124° 43 †	29.80	756.8	52	11.1	86	n.			6		8		n.	4 h'r	4 h'r	light	nw.	hazy.
S. S. G. W. Elder, N. 46° 49′, W. 124° 49′ †	29.89	759.2	47	8.3	62	var.			2		10					sm'h		overcast.
S. S. State of California, Astoria, Oregon			45	7.2	92	calm			0		8		ne.					foggy.
S. S. City of New York, N. 8° 22′, W. 163° 38′ †	29.97	761.2	80	26.7	82	ne.			5		4		ne.	1 h'r	1 h'r	mod.	ne.	fair.
S. S. City of Pekin, N. 23° 55′, E. 118° 15′			70	21.1	100	ne.			6		10			mod.	mod.	mod.	ne.	rainy.
S. E. B. Sutton, N. 11° 50′, W. 115° 20′†	29.99	761.7	80.5	26.9	91	ene.			4		8		ne.	⅙ hr	½ hr	mod.	n.	cloudy.
S. S. Colima, N. 12° 34′, W. 88° 20′ †	29.98	761.5	80	26.7	87	nw.			3		8		nw.	c	o	small		cloudy.
S. S. Granada, N. 22° 56′, W. 108° 42′†	29.94	760.5	72	22.2	95	se.			3		1		nw.	o	o	small	sw.	clear.
S. S. San José, Panama, Panama †	29.95	760.7	82	27.8		n.			2		5 k		n.	o	o			fair.
S. Armenia, N. 13° 12′, W. 120° 00′*	29.87	758.7	77	25.0	86	nne.			4		10		nne.	2 h'r	2 h'r	sm'h	nne.	misty.
S. S. Benledi, N. 16° 15′, E. 111° 15′*	29.81	757.2	83.5	28.6	79	se.			2		3		n.	o	o	r'gh	nne.	hazy.
S. Grecian. S. 1° 56′, E. 129° 04′†	29.90	759.4	83	28.3	87	nw.			4		6		ne.	1 h'r	1 h'r	sm'h		fair.
S. Titan, N. 11° 17′, W. 116° 45′ *†	30.00	762.0	84	28.9	91	ne.			3		3		ne.	o	o	sm'h	ne.	clear.
Xenia, N. 11° 11′ E. 110° 28′			85	29.4		ene.			2		3		e.	2 h'r	2 h'r	mod	ne.	clear.
U. S. S. Ranger, N. 13° 28′, W. 89° 20′	29.97	761.2	80	26.7	82	ene.			1		8		calm	0.95	24.1	sm'h		cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, S. 32° 51′ E. 158° 09′			64	17.8	78	se.			2		2	sw.				2	se.	d. clouds.
H. M. S. Espiegle, S. 26° 30′, E. 171° 09′	29.88	758.9	68	20.0	95	ssw.			4		3	ene.				3	ene.	d. clouds.
H. M. S. Kingfisher, S. 18° 44′, W. 154° 50′	29.93	760.2	79	26.1		ne.			2		2					4	e.	d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.96	761.0	57	13.9		ene.			1							sm'h		d. clouds
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.77	756.1	71	21.7	95	ne.			5		9							showery.
U. S. S. Hartford, S. 16° 14′, W. 149° 42′ *	29.85	758.2	81	27.2	78	nne.			2		8			o	o	sm'h		cloudy.
U. S. S. Iroquois, Valparaiso, Chili	30.02	762.5	58	14.4	88	calm			0		8					sm'h		cloudy.
U. S. S. Lackawanna, S. 33° 30′, W. 140° 22′*	30.05	763.3	63	17.2	62	ese.			4		10		ese.			mod.	ene.	cloudy.
U. S. S. Onward. Callao, Peru*	30.08	764.0	66	18.9	89	n.			1		10							cloudy.
U. S. S. Pensacola, Callao, Peru*†	29.93	760.2	66	18.9	89	n.	3	1.3	3		10			o	o			overcast.
U. S. S. Wachusetts, S. 8° 46′ W. 166° 05′	29.82	757.4	82	27.8	87	e.			1		2		e.			sm'h		clear.
S. May Hulse, S. 50° 45′ W. 80° 09′	29.59	751.6	48	8.9	81	wnw.			6		10							raining.
S. S. City of Sydney, Sydney, N. S. W *†.	30.04	763.0	68	20.0	79	calm			0		8n		ne.	o	o			cloudy.
S. S. Zealandia, Sydney, N S. W	30.02	762.5	68	20.0	90	n.			3		0							clear.
S. David Crocket, S. 51° 43′, W. 84° 00′*	29.52	749.8	45	7.2	84	sw.			7		8		sw.	7 h'r	7 h'r	h'vy	sw.	raining.
H. M. S. Lark, S. 19° 05′, E. 157° 42′	30.03	762.7	76.3	24.6	95	ese.			5		4					3	e.	d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 13° 32′, E. 47° 45′	29.70	754.4	84	28.9		se.			1		0							blue sky.
H. M. S. Euryalus, Colombo, Ceylon, India	29.71	754.6	84	28.9	87	w.			1		6	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.87	758.7	76	24.4	91	sse.			2		4	sse.				3		d. clouds.
S. S. Tourmaline, Ras Mandruka, Arabia	29.85	758.2				ssw.			3		0							blue sky
H. M S. Woodlark, N. 26° 20′, E. 56° 50′	29.71	754.6	84	28.9	96	nnw.			2		0							misty.
U. S. S. Juniata, N. 26° 35′, E. 53° 34′	29.78	756.4	83	28.3	75	wnw.			4		2			o	o	sm'h		clear.
Bk Alpheus Marshall, S. 31° 12′, E. 34° 45′ *†	29.85	758.2				ene.			2		3		bne	o	o	mod.	ese.	clear.
S. Annie M Law, S. 17° 10′, E. 86° 49′ *†	29.90	759.4	77	25.0		sse.			1		1		s.	o	o	long	ssw.	clear.
S. S. Burswell, N. 14° 39′, E. 56° 33′*†	29.88	758.9	88	31.1		sw.			2		1		calm	o	o	sm'h		clear.
Bk. Bore, S. 8° 14′, E. 116° 53′ *†	30.24	768.1	86	30.0		w.			1		1		s.			sm'h	ssw.	hazy.
Bk. Ceylon, S. 25° 49′, E. 54° 24′*†	30.06	763.5	80	26.7	91	nne.			6		10		se.	sli't	sli't	mod.	ene.	cloudy.
S. Dynomene, S. 33° 30′, E. 33° 00′	29.93	760.2	65	18.3	89	ene.			2		8			mod.	mod.	sli't	sw.	raining.
S. S. Malabar, N. 12° 16′, E. 47° 33′						ene.			4		0			o	o	sm'h		clear.
Bk. Pilgrim, S. 6° 58′, E. 105° 07′*†	29.85	758.2				calm			0		4			o	o	mod.	se.	clear.
S. S. Radnorshire, N. 12° 54′, E. 50° 26′ *†	29.82	757.4				ene.			4		0			o	o	sli't	e.	clear.
S. St. David, S. 39° 27′, E. 81° 00′ *†	30.10	764.5	60.3	15.7	91	wsw.			3		9		wsw.	½ h'r	½ h'r	long	sw.	cloudy.
Bk. Chas. Stewart, S. 44° 55′, E. 133° 30′†	30.01	762.2	52	11.1		s.			3		5		sw.			mod.	wsw.	foggy.
S. S. Foscolia, Point de Galle, Ceylon †	29.76	755.9				sw.			3		10		sw.	7 h'r	7 h'r	r'gh	var.	threatening.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 7, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.89	759.1	67.6	19.8	78	se.			1		0			0	0	clear	Malaterre.
Algiers			29.82	757.3	67.6	19.8	72	sw.			1		0			inap.	inap.	clear	Thève.
La Galle			29.84	757.9	76.3	24.6	52	n.			2		3			0	0	pretty fair	Fonfrède.
Tunis			29.91	759.6															Jacques.
Saida			29.92	760.0															Pérès.
Tebessa			29.97	761.3	84.2	29.0	6	sw.			5		3			0.283	7.2	pretty fair	St. Martin.
Geriville					79.5	26.4	5	ssw.			8		2			0	0	fair	Forfert.
Laghouat			29.94	760.5	71.6	22.0	47	se.			6		3			0	0	pretty fair	Abraham.
Biskra			29.95	760.6	82.4	28.0	33	nw.			2		0			inap.	inap.	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.08	764.0	56.0	13.3	86	w.	15	6.7			9 n			0.224	5.7	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.73	755.1	29.82	757.4	55.4	13.0	86	nnw.	10	4.5			7			0.70	17.8	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.24	742.8	29.78	756.3	68.7	20.4	50	se.			3		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.02	737.1	29.78	756.3	57.2	14.0	51	nnw.	4.3	1.9			5			0.055	1.4		Dr. Wierzbiski
Eperies	28.84	732.4	29.69	754.1	61.9	16.6	46	n.			4		4 s		s.	0	0		Julius Mikolik.
Gratz	28.56	725.4	29.77	756.1	65.8	18.8	50	se.			2		0			0.020	0.5		Andreas Rospini.
Hermannstadt	28.21	716.5	29.58	751.3	65.8	18.8	52	w.			3		10			0.335	8.5	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.42	721.8	29.71	754.7	64.6	18.2	55	ne.			3	3 c	k			0	0	fair	The Staff.
Lemberg	28.73	729.7	29.71	754.5	52.7	11.5	78	n.			3		10			0	0		Dr. T. Stanecki.
Neu Schmecks	26.37	669.9	29.67	753.5	55.6	13.1	49	sw.			2		2			0	0		Dr. V. von Szontagh.
Pola	29.63	752.7	29.72	754.8	65.8	18.8	69	wsw.			2		2			0.205	5.2		I. R. Hydrographic Office.
Szathmar	29.14	740.2	29.60	751.7	65.5	18.6		n.			4		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.43	747.4	29.70	754.3	65.5	18.6	60	nw.			2		7			0.063	1.6		Karl Stancel.
Trieste	29.69	754.2	29.79	756.7	62.7	17.0	74	nw.			1		1			0	0		Royal Academy.
Vienna	29.10	739.2	29.80	757.0	62.7	17.0	45	ne.			2		1			0.008	0.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.76	755.9	29.86	758.4	46.6	8.1	70	n.	9	4.0			9			0.080	2.0	overcast	W. Boswell.
Armagh, Observatory	29.57	751.1	29.81	757.2	52.0	11.1	66	n.	14	6.3			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.69	754.1	58.2	14.6	41	ene.	16	7.2			8					misty	John Hartnup.
Bolton, Sharples	29.17	740.9	29.70	754.4	58.2	14.6	52	ene.	18	8.0								blue sky	Thomas Mackereth.
Bradford, Yorkshire	29.34	745 2	29.74	755.4	53.9	12.2	47	ne.			2		1			0.11	2.8	blue sky	McLandsborough & Preston.
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	85.0	29.4	74	se.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.78	756.4	29.88	758.9	54.2	12.3	25	ne.			0.2		10					raining	John McLaren.
Chatham, School M. E.	29.56	750.8	29.69	754.1	52.1	11.2	92	calm.			0		10			blank	blank	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.40	746.7	29.63	752.6	48.3	9.1	85	sse.			3		10					overcast	The Staff.
Fort Napier, Natal	27.65	702.3	29.87	758.7	70.5	21.4	41	s.			1		4					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.59	751.6	29.82	757.4	86.0	30.0	58	s.			1		6					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.73	755.1	29.76	755.9	55	12.8	56	ne.			3		3			0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.79	756.7	29.85	758.2	62.5	16.9	91	w.			3		8					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.59	751.6	29.79	756.7	54.1	12.3	44	ne.			2		8					misty	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.51	749.5	29.68	753.9	52.2	11.2	92	calm			0		10					drizzling	The Staff.
Guernsey	29.40	746.7	29.69	754.1	51.0	10.6	72	s.			1		0			blank	blank	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.66	753.4	29.69	754.1	51.8	11.0	90	ne.	3	1.3			9					misty	The Staff.
Leicester, Museum	29.43	747.5	29.69	754.1	56.8	13.8	62	ne.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	64.2	17.9	97	ne.					2					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.02	762.5	30.06	763.5	77.0	25.0	64	ne.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.18	741.2	29.71	754.6	52.3	11.3	69	e.			2		10					gloomy	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.46	748.3	29.69	754.1	48.7	9.3	95	ene.			1		10					raining	The Staff.
Plymouth	29.57	751.1	29.64	752.8	50.0	10.0	84	se.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.80	756.9	29.90	759.4	42	5.6	58						5					showery	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.62	752.3	29.69	754.1	66.6	19.2	67	sw.			2		6					d. clouds	W. H. Lyne.
Sheffield	29.48	748.8	29.76	755.9	56.1	13.4	75	ne.			3		7			0.22	5.6	overcast	W. F. Cooper.
Silloth Rectory	29.74	755.4	29.77	756.1	55.7	13.2	48	ene.			6		0			0.060	1.5	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.74	755.4	57.2	14.0	45	ne.	12	5.4								blue sky	W. C. Carlisle.
Truro, Royal Institution	29.58	751.3	29.64	752.8	53	11.7	67	se.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	29.70	754 4	29.72	754.9	56.5	13.6	56	nne.	27	12.1			4					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.60	751.8	29.99	761.7	68.4	20.2	38	sw.	2.5	1.1		8 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.81	757.2	29.85	758.2	37	2.8	81	ne	16	7.2			10 n		ne.	0.255	6.5	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.91	759.7	29.98	761.5	41	5.0	86	n.	7	3.1		2 k	8 ks	n.	n.	0.20	5.1	cloudy	G. A. Blair.
Cornwall, Ontario	29.78	756.4	29.97	761.2	49.6	9.8	70	w.			2		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.93	760.2	29.98	761.5	36.5	2.5		calm			0		10			0.130	3.3	misty	H. A. Johnson.
Father Point, Quebec*	29.93	760.2	29.95	760.7	36	2.2	89	nw.	8	3.6			fg.		calm	0.01	0.3	foggy	J. McWilliams.
Fort Garry, Manitoba*	29.14	740.1	30.00	762.0	34	1.1	85	w.	8	3.6		0	8 ks		w.	0	0	cloudy	James Stewart.
Fredericton, N. B.	29.92	760.0	29.98	761.5	41.1	5.1	82	ne.	8	3.6			10 s			0.110	2.8	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.86	733.0	29.96	761.0	48.0	8.9	100	s.	5	2.2			10 n			0.68	17.3	raining	Jas. Grant.
Halifax, N. S*	29.68	753.9	29.82	757.4	37	2.8	89	nw.	15	6.7			10 k		n.	1.016	25.8	cloudy	A. Allison.
Hamilton, Ontario	29.52	749.8	29.92	760.0	43.7	6.5	92	sw.			2	10 cs	0	sw.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.68	753.9	30.03	762.7	42	5.6	86	sw.	7	3.1			10 ks		w.	0.01	0.3	light rain	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.67	753.6	29.71	754.6	34.0	1.1	96	ne.			7		10 n			0.600	15.2	snowing	C. H. Rigby.
Montreal, Quebec*	29.77	756.1	29.97	761.2	48	8.9	68	w.	16	7.2			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.74	755.4	29.99	761.7	47.0	8.3	79	sw.			1		10 s					raining	A. McGill, M. A.
Parry Sound, Ontario*	29.20	741.7	29.89	759.2	47	8.3	93	s.	13	5.8			10 n		sw.	0.23	5.8	light rain	Rev. R. Mosley.
Peterboro, Ontario	29.32	744.7	30.05	763.3	50.7	10.4	93	s.			1	5 c	5 s			0.020	0.5	raining	J. Dixon, B. A.
Port Dover, Ontario	29.31	744.5	30.02	762.5	45	7.2	100	s.	6	2.7			10 cs		s.	0.01	0.3	cloudy	H. Morgan.
Port Stanley, Ontario	29.34	745.2	29.99	761.7	47	8.3	80	e.	10	4.5			10 n		sw.	0.06	1.5	light rain	M. Payne.
Quebec, Quebec*	29.60	751.8	29.97	761.2	36	2.2	100	ne.	3	1.3			fg.			0.02	0.5	foggy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.44	747.8	29.91	759.7	42	5.6	92	calm	0	0			10 s		w.	0.04	1.0	light rain	W. H. McIntyre.
St. Andrews, N. B.	29.90	759.4	29.95	760.7	42.	5.6	82	ne.	4	1.8		5 k	5 ks			0.15	3.8	fair	
St. John, N. B	29.76	755.9	29.93	760.2	39.0	3.9	91	ne.	11	4.9			10 ks			0.200	5.1	overcast	G. Murdock, C. E.
Saint John's, N. F.	29.72	754.9	29.98	761.5	38	3.3	100	se.			2		10 n			0	0	overcast	J. Higgins.
St. Pierre, N. F.			29.72	754.9	35.6	2.0		e.			4					0.08	2.0		The Commandant
Saugeen, Ontario*	29.14	740.1	29.85	758.2	51	10.6	90	s.	20	8.9			10 ks			0.08	2.0	cloudy	
Stratford, Ontario	28.67	728.2	29.95	760.7	47.6	8.7	85	sw.	8	3.6			10 s			0.051	1.3	d. clouds	C. J. Macgregor, M A
Sydney, C. B*	29.63	752.6	29.69	754.1	34	1.1	92	ne.	19	8.5			10 n			0.56	14.2	light snow	T. C. Hill, C. E.
Toronto, Ontario*	29.02	752 3	30.01	762.2	45	7.2	83	sw.	5	2.2			10 ks		w.	0.05	1.3	cloudy	Magnetic Observatory.
Windsor, N. S	29.75	755.6	29.85	758.2	37.5	3.1	81	n.	18	8.0			10 n			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.92	734.6	29.99	761.7	48.8	9.3	80	s.	19	8.5			10 s			0.02	0.5	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.84	757.9	29.91	759.7	40	4.4	89	n.	3	1.3			10 k		n.	0.74	18.8	cloudy	Lt. F. E. Wilmot, R. N.
London, Ontario	29.07	738.4	29.97	761.2	48.7	9.3	78	s.			2		10 n			0	0	overcast	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
CAPE COLONY.																			
Cape St. Francis Lt. House	30.08	764.0	30.11	764.8	70.0	21.1	78	sw.	10.7	4.8	.....	0	1 k	.....	.....	0	0	clear	John Duthie.
Springbok Fontein	27.90	708.6	.....	.....	67	19.4	37	nw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.14	638.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Guelny.
Tchang-kia-tchouang	29.72	754.8	29.83	757.6	65.8	18.8	71	s.	.....	.....	3	.....	4	.....	.....	0	0	.....	R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.91	759.8	29.94	760.4	59.9	15.5	92	sse.	18.3	8.2	.....	.....	10 n	.....	.....	0.437	11.1	raining	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.78	756.3	29.82	757.5	52.0	11.1	57	e.	9	4	.....	.....	5	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.80	757.0	29.82	757.5	54.5	12.5	50	wsw.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	30.39	761.8	30.43	772.9	29.3	− 1.5	100	nne.	.....	.....	2	.....	10	.....	.....	.....	.....	foggy	S. Kleinschmidt.
Jacobshavn, Greenland	30.37	771.5	30.42	772.7	37.0	2.8	.....	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	30.37	771.4	30.41	772.5	34.7	1.5	93	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	30.00	762.0	30.02	762.6	33.8	1.0	79	nw.	25	11	.....	.....	7	.....	.....	.....	.....	snowing	Overloerer Bergh.
Vestervig	29.74	755.4	29.83	757.7	47.3	8.5	67	nw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.78	756.5	.....	.....	81.0	27.2	.....	nne.	11.2	5.0	.....	0	0	.....	.....	0	0	.....	Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.11	739.3	29.75	755.6	63.7	17.6	68	calm	.....	.....	0	.....	kn	.....	w.	0.047	1.2	.....	M. Labroue, Director.
Alençon, Normal School	29.27	743.4	29.82	757.4	53.2	11.8	86	sw.	.....	.....	1	.....	10	.....	.....	0.24	6.	covered	M. Nicot, Director.
Arras, Engineer School	29.45	748.0	29.70	754.4	55.0	12.8	78	ssw	.....	.....	2	.....	10 n	.....	s.	0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	29.74	755.4	29.82	757.4	66.9	19.4	58	se.	.....	.....	1	.....	2	.....	w.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.24	742.8	29.80	756.8	56.8	13.8	71	sse.	.....	.....	1	0	8 kn	.....	wsw.	0.087	2.2	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.50	749.3	29.76	755.9	61.7	16.5	56	s.	.....	.....	1	.....	8	.....	ssw.	0.079	2.0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.85	732.9	29.72	755.0	62.8	17.1	91	s.	.....	.....	1	.....	cn	.....	sw.	0.020	0.5	.....	M. Gobin, Director.
Bordeaux, Observatory	29.40	746.8	29.66	753.4	59.9	15.5	62	nw.	.....	.....	1	.....	8	.....	.....	0.004	0.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.15	740.3	29.68	753.9	62.6	17	73	n.	.....	.....	1	.....	k	.....	n.	0	0	.....	M. Malet, Director.
Brest, Naval Observatory	29.48	748.8	29.72	755.0	55.0	12.8	65	sw.	.....	.....	2	.....	4	.....	sw.	3.957	100.5	.....	M. de Kermarec, Dir.
Caen, Normal School	29.62	752.3	29.69	754.2	59.0	15	64	sw.	.....	.....	2	.....	5	.....	sw.	0.47	12.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.44	747.8	29.75	755.7	56.7	13.7	62	ssw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.24	742.8	29.74	755.5	56.5	13.6	69	ssw.	.....	.....	1	.....	10	.....	.....	0.04	1.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.37	720.6	29.69	754.1	62.2	16.8	61	ne.	.....	.....	1	.....	8	.....	.....	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	28.94	735.0	29.79	756.6	59.5	15.3	76	sw.	.....	.....	1	.....	10	.....	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.93	734.9	29.78	756.5	56.5	13.6	72	w.	.....	.....	1	.....	n	w.	w.	0	0	.....	Dr. Coulet, Director.
Gap, Normal School	27.32	693.9	29.78	756.3	62.2	16.8	35	ne.	.....	.....	3	0	6 ks	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	28.71	729.1	29.80	757.0	64.6	18.1	46	s.	.....	.....	3	.....	3	.....	s.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	28.96	735.6	29.71	754.6	66.2	19	57	nw.	.....	.....	2	ok	n	.....	se.	0	0	.....	M. Ablard, Director.
Guéret, Normal School	28.02	711.6	29.58	751.4	60.8	16	56	sw.	.....	.....	4	.....	n	.....	e.	0.150	3.8	.....	M. Delorme, Dir.
Lamballe, Normal School	29.51	749.5	29.74	755.4	54.7	12.6	70	sw.	.....	.....	2	.....	5	.....	sw.	0.409	10.4	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.04	737.5	29.59	751.6	65.3	18.5	51	sse.	.....	.....	1	5 c	0	.....	.....	0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.61	752.1	29.71	754.7	58.3	14.6	48	s.	.....	.....	2	.....	5	nw.	n.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.71	729.3	29.74	755.5	63.7	17.6	55	s.	.....	.....	2	8 cs	0	s.	.....	0	0	very cloudy	M. André, Director.
Mans, Normal School	29.40	740.8	29.71	754.5	59.2	15.1	61	s.	.....	.....	3	.....	5	.....	sw.	0.335	8.5	cloudy	M. Piboën, Director.
Marseille, Observatory	29.56	750.9	29.83	757.7	63.5	17.5	51	s.	.....	.....	2	.....	3	.....	w.	0	0	.....	M. Stephan, Director.
Montlouis	24.56	623.8	29.40	746.8	49.1	9.5	62	sw.	18.6	8.3	.....	.....	6	sw.	.....	0	0	.....	M. Cave for Dr. Fines.
Montpellier, Normal School	29.66	753.3	29.78	756.4	60.4	15.8	85	se.	.....	.....	4	.....	10	.....	se.	0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.02	737.0	29.78	756.5	57.6	14.2	80	sw.	.....	.....	1	.....	kn	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	29.60	751.7	29.76	755.8	58.1	14.5	57	ssw.	.....	.....	0.1	.....	10 n; kn	s.	s.	0.417	10.6	.....	M. Larocque, Director.
Perpignan, Observatory	29.57	751.0	29.67	753.7	72.1	22.3	47	se.	9.4	4.2	.....	.....	8	.....	ssw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	20.91	531.1	.....	.....	33.1	0.6	.....	sw.	.....	.....	2–3	.....	fg	ne.	sw.	0.071	1.8	dense fog	M. Vaussenat, Director.
Privas, Normal School	28.71	729.1	29.67	753.6	63.3	17.4	49	s.	.....	.....	3	.....	2 cn	s.	s.	0	0	slightly cl'dy	M. Tailleu.
Puy de Dôme Obs'y, Summit	24.89	632.3	.....	.....	42.1	5.6	81	sse.	.....	.....	2	8 ck	0	ssw.	.....	0.059	1.5	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.70	754.3	29.73	755.1	56.1	13.4	64	calm	.....	.....	0	.....	10	.....	ene.	0.20	5.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.51	749.0	29.72	755.0	54.9	12.7	70	s.	.....	.....	1	.....	5	.....	s.	0.165	4.2	cloudy	M. Brotier, Director.
Rodez, Normal School	27.61	701.3	29.70	754.4	59.2	15.1	68	e.	.....	.....	3	.....	1 kn	e.	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.70	754.4	29.75	755.6	60.8	16	61	ssw.	.....	.....	1	.....	5	ssw.	.....	0.091	2.3	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.62	752.3	29.78	756.4	56.3	13.5	62	ssw.	.....	.....	1	.....	10	.....	ssw.	0.031	0.8	.....	M. Renou, Director.
Toulouse, Observatory	28.99	736.3	29.70	754.4	64.9	18.3	66	ese.	.....	.....	2	.....	2	.....	sw.	0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.57	751.1	29.75	755.6	58.3	14.6	50	s.	.....	.....	1	.....	2	sw.	ssw.	0.043	1.1	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.28	743.6	29.77	756.1	55.8	13.2	58	sw.	.....	.....	1	.....	.....	.....	.....	0.071	1.8	.....	Dr. A. Berigny, Director
Sub-series.																			
St. Martin du Hinx	29.50	749.2	29.65	753.0	61.9	16.6	61	se.	5.8	2.6	.....	0	8 k	.....	sw.	0.008	0.2	.....	M. Cartier, Director.
GERMAN.																			
Ansbach	28.34	719.8	29.74	755.3	65.7	18.7	38	se.	.....	.....	2	.....	3	se.	.....	0	0	.....	Prof. Jnedt.
Bamberg	28.95	735.4	29.79	756.7	67.6	19.8	46	s.	.....	.....	1	0	5 s	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	29.72	755.0	29.87	758.6	58.6	14.8	41	se.	.....	.....	1	.....	9	.....	.....	0	0	.....	Meteorological Institute.
Breslau	29.34	745.3	29.87	758.7	53.1	11.7	43	nw.	.....	.....	3	.....	1	.....	.....	0	0	.....	Royal University Obs'y
Carlsruhe	29.30	744.2	29.74	755.5	66.9	19.4	47	se.	.....	.....	1	.....	1	sw.	.....	0	0	.....	Albert Senz.
Cassel	29.04	737.6	29.75	755.7	67.8	19.9	35	se.	.....	.....	1	.....	6	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	.....	.....	29.76	755.9	67.8	19.9	38	se.	.....	.....	2	.....	6	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.35	720.1	29.73	755.1	62.6	17.0	62	sw.	.....	.....	2	.....	6	wsw.	.....	0.102	2.6	raining	Wilhelm, Chief Tel.
Hamburg	29.75	755.6	29.84	757.9	58.1	14.5	40	ese.	.....	.....	2	.....	4	w.	.....	0	0	.....	E. Preller.
Kiel	29.81	757.1	29.82	757.5	56.3	13.5	43	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.43	747.5	29.85	758.1	57.9	14.4	33	ene.	.....	.....	2	.....	3	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.64	752.9	29.83	757.6	61.3	16.3	38	ene.	.....	.....	2	.....	1	w.	.....	0	0	.....	Dr. Assmann.
Memel	29.66	753.4	29.71	754.6	41.7	5.4	80	nw.	.....	.....	4	.....	10 s	.....	.....	.....	.....	.....	Issermann.
Munich	27.95	709.9	29.80	756.8	63.5	17.5	38	nw.	.....	.....	1	.....	5	w.	.....	0	0	.....	Central Station.
Neufahrwasser	29.81	757.2	29.83	757.6	44.1	6.7	76	n.	.....	.....	3	.....	2	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.21	742.0	29.74	755.3	66.9	19.4	49	sse.	.....	.....	1	.....	4	.....	.....	0	0	.....	Dicknether.
Stuttgart	28.79	731.2	29.65	753.1	66.2	19.0	36	n.	.....	.....	1	.....	3	e.	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	29.87	758.8	29.90	759.4	51.6	10.9	44	se.	.....	.....	2	0	2	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.40	746.8	29.78	756.4	73.2	22.9	.....	w.	.....	.....	2.0	1 k	0	.....	.....	0.024	0.6	.....	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.65	753.0	29.70	754.3	81.9	27.7	91	sw.	34.0	15.2	.....	.....	2	.....	sw.	0	0	d. clouds	
Deesa	29.18	741.2	29.63	752.7	102.1	38.9	14	w.	19.0	8.5	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.70	754.3	29.73	755.2	86.7	30.4	69	wnw.	23.0	10.3	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.87	707.9	29.66	753.2	96.0	35.6	26	wnw.	29.0	13.0	.....	.....	3	.....	.....	0	0	d. clouds	
Trichinopoly	29.46	748.3	29.73	755.1	101.1	38.4	30	e.	2.0	0.9	.....	.....	5	nne.	nne.	0	0	d. clouds	
Belgaum	27.19	690.6	29.68	754.0	82.4	28.0	70	ene.	7.0	3.1	.....	.....	6	w.	.....	0.06	1.5	d. clouds	
Lahore	28.80	731.5	29.50	749.4	103.3	39.6	15	n.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.60	729.4	29.45	748.0	102.9	39.4	9	nw.	10.0	4.5	.....	.....	0	.....	.....	0	0	.....	
Agra	28.98	736.0	29.51	749.4	108.1	42.3	10	sw.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.56	725.5	29.55	750.5	107.0	41.7	14	nw.	8.0	3.6	.....	.....	5	.....	w.	0	0	d. clouds	
Jubbulpore	28.29	718.6	29.58	751.4	104.2	40.1	9	w.	20.0	8.9	.....	.....	2	.....	w.	0	0	d. clouds	
Lucknow	29.16	740.7	29.52	749.8	101.4	38.6	18	wsw.	11.0	4.9	.....	.....	0	.....	.....	0	0	hazy	
Allahabad	29.21	742.0	29.51	749.4	105.9	41.1	13	nw.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.32	744.7	29.50	749.2	102.3	39.1	20	nw.	6.6	3.0	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.59	700.7	29.50	749.4	98.4	36.9	9	wnw.	12.2	5.4	.....	.....	0	.....	.....	0	0	.....	
Cuttack	29.56	750.8	29.64	752.8	84.5	29.2	62	w.	10.0	4.5	.....	.....	4	.....	s.	0	0	d. clouds	
Calcutta, Alipore	29.57	751.0	29.59	751.6	85.8	29.9	76	ssw.	20.0	8.9	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.45	748.1	29.57	751.1	77.0	25.0	82	e.	23.0	10.3	.....	.....	10	.....	sw.	0.13	3.3	overcast	
Chittagong	29.66	753.3	29.75	755.5	83.7	28.7	84	s.	11.4	5.1	.....	.....	7	s.	.....	0	0	blue sky	
Sibsagar	29.42	747.3	29.76	756.0	72.8	22.7	88	ne.	2.0	0.9	.....	.....	10	w.	w.	0.70	17.8	overcast	
Jeypore	28.18	715.8	29.56	750.7	102.8	39.3	37	w.	13.8	6.2	.....	.....	1	.....	w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.11	714.0	.....	.....	101.0	38.3	19	se.	4	1.8	.....	4 ck	6	.....	.....	0	0	gloomy	
Zanzibar	.....	.....	29.64	757.9	84.4	29.1	72	ssw.	6.4	2.9	.....	.....	3	.....	e.	0	0	d. clouds	
ITALIAN.																			
Udine	29.41	747.1	29.82	757.3	68.7	20.4	51	s.	1.8	0.8	.....	.....	5	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.31	744.4	29.82	757.4	67.3	19.6	50	nw.	6.9	3.1	.....	.....	8	w.	.....	0	0	.....	Prof. G.V.Schiapparelli.
Padua	29.69	754.2	29.80	756.9	65.7	18.7	65	calm	0	0	.....	.....	5	sw.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.87	733.2	29.76	755.9	64.4	18.0	64	e.	7.4	3.3	.....	.....	8	n.	.....	0.154	3.9	.....	Prof. F. F. Denza.
Genoa	29.69	754.2	29.89	759.1	57.2	14.0	81	se.	9.4	4.2	.....	.....	10	se.	.....	0	0	.....	Prof. G. M. Garibaldi
Mondovi	27.90	708.7	29.79	756.7	61.3	16.3	65	wnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.82	757.3	29.86	758.5	66.2	19.0	73	se.	9.8	4.4	.....	.....	7	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.65	753.0	29.90	759.4	64.4	18.0	62	w.	.....	.....	2	.....	10	.....	.....	0.012	0.3	.....	Prof. Costantino Pittei.
Leghorn	29.77	756.2	29.85	758.3	63.0	17.2	72	w.	4.9	2.2	.....	.....	3	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.73	755.1	29.90	759.4	69.1	20.6	51	calm	0	0	.....	.....	8	ne.	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.62	752.4	29.87	758.7	65.8	18.8	54	e.	3.8	1.7	.....	.....	7	nw.	.....	0.024	0.6	.....	Prof. C. de Giorgi.
Cosenza	29.04	737.7	29.92	759.9	64.8	18.2	75	wsw.	2.5	1.1	.....	.....	4	sw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.63	752.6	29.82	757.5	66.2	19.0	47	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.70	754.4	29.95	760.6	63.3	17.4	50	ne.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.82	757.4	29.86	758.5	70.9	21.6	53	s.	3.1	1.4	.....	.....	5	ssw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.44	747.7	29.95	760.8	63.3	17.4	83	w.	6.9	3.1	.....	.....	10	nw.	.....	0.055	1.4	.....	Prof. F. Brioschi.
Stelvio	22.02	559.2	.....	.....	34.3	1.3	83	sw.	.....	.....	2	.....	8	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	22.04	559.7	.....	.....	40.1	4.5	73	n.	.....	.....	2	.....	10	.....	.....	1.969	50.0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.04	763.0	30.07	763.9	42.9	6.1	79	w.	.....	.....	2	.....	10 ck	.....	.....	0.035	0.9	cloudy	H. Hattori.
Awomori	29.98	761.5	30.02	762.5	40.6	4.8	73	nw.	16.6	7.4	.....	.....	10 s	.....	.....	0.009	0.2	overcast	K. Ogawa.
Hamamatsu	30.07	763.8	30.10	764.5	53.2	11.8	65	calm	.....	.....	0	0	0	.....	.....	0	0	clear	
Kagoshima	30.18	766.5	30.19	766.8	54.0	12.2	74	nnw.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohaza.
Kioto	30.01	762.2	30.19	766.7	49.1	9.5	88	nnw.	1.0	0.4	.....	0	1 s	.....	.....	0.006	0.1	clear	M. Tojima.
Miasaka	30.18	766.7	30.21	767.4	53.6	12.0	84	nnw.	.....	.....	1	0	0	.....	.....	0	0	clear	K. Masusaki.
Miyako	29.86	758.4	29.97	761.2	40.4	4.4	91	wsw.	7.2	3.2	.....	5 ck	0	.....	.....	0	0	fair	N. Honno.
Nagasaki, I. M. Obs'y	29.98	761.5	30.19	766.8	55.8	13.2	46	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.12	765.0	30.16	766.0	45.3	7.4	70	n.	6.6	2.9	.....	0	0	.....	.....	0	0	clear	M. Morita.
Nobiru	30.01	762.3	30.03	762.7	44.3	6.8	70	nnw.	22.5	10.1	.....	0	1 ks;s	.....	nnw.	0	0	clear	H. Midzushina.
Numazu	30.01	762.1	30.04	763.0	49.1	9.5	80	nne.	.....	.....	2	0	0	.....	.....	0	0	clear	R. Kaneda.
Osaka	30.15	765.7	30.16	766.1	53.6	12.0	68	ne.	14.4	6.4	.....	0	1 s	.....	.....	0.005	0.1	clear	H. Omura.
Tokei Obs'y, Yeddo	29.94	760.6	30.02	762.6	48.9	9.4	57	nw.	17.6	7.9	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.10	764.6	30.15	765.9	58.8	14.9	50	n.	11.1	5.0	.....	3 ck	0	.....	.....	0	0	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.76	755.9	29.95	760.7	76.5	24.7	82	nne.	4.5	2.0	.....	.....	8 n;ks	.....	e.	0.14	3.6	cloudy	The Staff.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	56.7	13.7	85	calm	0	0	.....	1 c	0	.....	.....	0.059	1.5	clear	Prof. Vicente Fernandez.
Leon	24.34	618.2	30.06	763.5	54.7	12.6	88	calm	0	0	.....	0	0	.....	.....	0.032	0.8	clear	Prof. M. Leal.
Mazatlan	29.71	754.6	29.97	761.2	71.0	21.7	95	e.	0.9	0.4	.....	0	8 n	.....	sw.	0	0	dense fog	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	65	18.3	100	e.	5.0	2.2	.....	0	2 n	.....	e.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.73	755.1	29.73	755.1	59.2	15.1	.....	wnw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	29.70	754.4	29.76	755.8	61.7	16.5	.....	e.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	29.73	755.1	29.73	755.1	54.7	12.6	.....	ene.	.....	.....	2	.....	.....	.....	.....	0.165	4.2	.....	
Hellevoetsluis	29.71	754.7	29.71	754.7	64.6	18.1	51	ese.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	29.67	753.6	29.72	754.8	68.5	20.3	43	sse.	.....	.....	3	.....	5	.....	.....	0.028	0.7	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.90	759.4	.....	.....	78.1	25.6	87	nnw.	0	0	.....	.....	6	.....	.....	0	0	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.69	754.2	29.76	755.8	50.0	10.0	60	ssw.	20	9	.....	.....	10	.....	.....	0	0	.....	
Brono	29.63	752.5	29.67	753.5	55.4	13.0	40	ssw.	.....	.....	4	.....	7	.....	.....	0	0	.....	
Christiania	29.57	751.1	29.72	754.8	55.0	12.8	38	wsw.	11	5	.....	.....	0	.....	.....	0	0	.....	
Gjesvær	29.90	759.5	29.93	760.1	38.3	3.5	.....	ene.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	
Lodingen	29.71	754.6	29.76	755.8	47.3	8.5	65	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.65	753.0	29.80	757.0	57.6	14.2	72	nnw.	17.4	7.8	.....	.....	4	.....	.....	0.165	4.2	.....	Dr. J. A. Sampaio.
Campo Major	28.67	728.3	29.68	753.9	51.8	11.0	84	sw.	6.3	2.8	.....	.....	10	.....	.....	0.697	17.7	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.82	757.4	29.91	759.6	65.5	18.6	57	wsw.	2.5	1.1	.....	.....	1	.....	.....	0.398	10.1	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.31	744.4	29.64	752.8	59.4	15.2	85	sw.	18.1	8.1	.....	.....	3	wsw.	.....	0.118	3.0	.....	The Staff.
Ponta Delgada, Azores	29.74	755.4	29.81	757.2	59.4	15.2	50	nnw.	16.1	7.2	.....	.....	4	.....	.....	0.157	4.0	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Serra da Estrella	24.91	632.7	29.65	753.2	40.5	4.7	90	wsw.	8.7	3.9	.....	.....	10	.....	.....	0.772	19.6	rain & fog	
RUSSIAN.																			
Akmolinski	28.96	735.6	30.02	762.4	62.8	17.1	21	sse.	13	6	.....	1 c	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.12	765.0	30.14	765.5	54.0	12.2	41	ese.	9	4	.....	0	8 ks	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	29.97	761.1	29.87	758.7	71.6	22.0	69	wnw.	4	2	.....	ck	9 s;n	.....	.....	0	0	light clouds	Capt. Wieganow.
Astrakhan	30.09	764.3	30.01	762.2	70.7	21.5	43	e.	18	8	.....	0	4 s	.....	.....	0	0	.....	
Baku	29.91	759.8	29.87	758.6	68.5	20.3	71	ssw.	9	4	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y
Barnaul	30.02	762.4	30.54	775.7	37.2	2.9	33	ne.	4	2	.....	.....	0	.....	.....	0	0	.....	
Bielosersk	29.54	750.2	30.00	762.1	46.0	7.8	96	ene.	9	4	.....	.....	10ks;n	.....	.....	0.220	5.6	raining	
Dorpat	29.35	745.4	29.59	751.6	54.3	12.4	94	ese.	4	2	.....	.....	10 n	.....	.....	0.571	14.5	.....	Observatory.
Ekaterinburg	29.11	739.3	30.06	763.4	56.5	13.6	50	ne.	4	2	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	29.32	742.2	29.65	753.0	75.0	23.9	44	sse.	9	4	.....	0	8 k	.....	.....	0.020	0.5	.....	
Irkutsk	28.37	720.7	30.06	763.5	36.1	2.3	84	nw.	.....	.....	4	.....	10	.....	.....	0.476*	12.1*	.....	
Kasalinsk	29.30	744.2	29.48	748.7	74.5	23.6	39	w.	18	8	.....	10 ck	0	.....	.....	.....	.....	.....	
Kasan	29.89	759.1	30.15	765.8	66.0	19.2	37	n.	2	1	.....	0	6	.....	.....	0	0	.....	Observatory.
Kem	29.98	761.5	30.03	762.8	47.1	8.4	48	ese.	31	14	.....	.....	9 ks	.....	.....	0.071	1.8	.....	
Kertch	29.65	753.0	29.67	753.6	66.0	18.9	72	se.	4	2	.....	4 c	0	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	28.99	736.3	29.60	751.9	63.3	17.4	72	se.	7	3	.....	ck	7 ks;n	.....	.....	0.031	0.8	heavy cl'ds.	Observatory.
Koslov	29.50	749.3	30.02	762.6	68.7	20.4	50	ese.	18	8	.....	0	2 ks	.....	.....	0	0	.....	
Libau	29.63	752.5	29.65	753.1	39.2	4.0	90	nw.	13	6	.....	.....	10	.....	.....	0.457	11.6	.....	E. Quass.
Lugan	29.62	752.4	29.80	756.9	74.3	23.5	38	se.	45	20	.....	.....	8	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.45	748.1	29.91	759.6	70.0	21.1	55	ssw.	2.2	1.0	.....	0	6 ks	.....	.....	0.031	0.8	.....	Meteorological Obs'y
Nikolaiev	29.61	752.1	29.69	754.0	72.5	22.5	56	s.	13	6	.....	0	0	.....	.....	0.138	3.5	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.96	761.0	30.05	763.2	27.7	— 2.4	71	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.59	751.6	29.73	755.2	71.8	22.1	56	sw.	3.4	1.5	.....	5 cs	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.56	750.9	29.89	759.3	82.6	28.1	23	nw.	1.1	0.5	.....	0	6 k	.....	.....	0	0	.....	
Petrozavodsk	29.74	755.5	29.95	760.7	41.9	5.5	74	se.	9	4	.....	.....	10	.....	.....	0.315	8.0	.....	Dr. Bergmann.
Pinsk	29.13	740.0	29.63	752.5	53.8	12.1	85	wnw.	18	8	.....	.....	10 s	.....	.....	0.059	1.5	.....	
Poti	29.65	753.0	29.68	753.8	75.7	24.3	84	ssw.	4	2	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	29.68	753.9	29.71	754.5	48.6	9.2	98	ese.	9	4	.....	.....	10 n	.....	.....	0.272	6.9	.....	Central Physical Obs'y.
Samarkand	27.51	698.8	29.91	759.6	68.0	20.0	65	s.	3.4	1.5	.....	.....	9 n	.....	.....	.....	.....	raining	
Semipalatinsk	29.74	755.4	30.42	772.6	44.4	6.9	23	ne.	9	4	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.50	749.3	29.72	754.9	67.3	19.6	52	wsw.	16	7	.....	.....	9 n	.....	.....	0.075	1.9	.....	

* Total rainfall for 2 days.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.21	742.0	29.65	753.1	69.4	20.8	56	sse.	13	6			10 kn			0.098	2.5		
Tashkend	28.26	717.7	29.84	757.8	78.8	26.0	24	calm	0	0		0	2 k			0	0		Terch, A. M.
Tiflis	28.43	722.0	29.76	755.9	81.0	27.2	40	s.	4	2		0	0			0	0		Physical Observatory.
Vernoe	27.46	697.5	29.90	759.5	63.3	17.4	29	calm	0	0		0	1 k			0	0		
Viatka	29.55	750.6	30.18	766.5	56.8	13.8	44	calm	0	0			0			0	0		
Warsaw	29.34	745.2	29.76	755.8	54.3	12.4	49	nnw.	13	6		0	8 k			0	0	heavy clouds	Astronomical Obs'y.
Yeniseisk	30.13	765.4	30.43	773.0	40.6	4.8	59	calm	0	0			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.94	760.5	45	7.2	92	ne.			7	5	3	ne.		0	0	d. clouds	J. Youngclause.
North Unst			29.79	756.7				n.			6	0	3						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.69	754.0	29.79	756.6	64.8	18.2	60	s.	4.3	1.9		0	6			0	0	½ covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.60	751.7	29.65	753.2	57.4	14.1	90	nw.	1.1	0.5			10			0.008	0.2	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.71	678.4	29.67	753.5	49.6	9.8	85	s.	4.0	1.8			10			0.217	5.5	covered	Domingo Martin.
Madrid, Royal Obs'y	27.49	698.2	29.69	754.2	56.5	13.6	73	sw.	21.3	9.5			10			0.185	4.7	covered	The Staff.
Murcia, Met. Obs'y	29.58	751.3	29.72	754.8	70.5	21.4	74	s.	4.3	1.9		4	5	e.		0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	28.83	732.3	29.69	754.1	50.0	10.0	78	e.	8.7	3.9		6 kn	4 kn	e.	e.	0.051	1.3	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.69	728.8	29.57	751.0	61.0	16.1	54	sw.	3.1	1.4			6			0.264	6.7	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	761.2	30.03	762.8	74.0	23.3	83	ese.	1.1	0.5		c;cs	k	w.	ne.	0	0	solar halo	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.1	29.95	760.6	84.0	28.9	77	ne.	9.8	4.4		0	1 s			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.69	754.1	29.79	756.6	59.2	15.1	89	s.	25.5	11.4			10			0.378	9.6	raining	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.87	758.6	29.96	760.9	81.7	27.6	79	se.	5.1	2.3		2 cs	1 k	se.	se.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.91	759.6	29.95	760.6	48.9	9.4	44	s.			2		2			0	0		
Umea	29.83	757.7	29.88	759.0	53.4	11.9	45	sw.			2		1			0	0		
Hernosand	29.78	756.5	29.84	757.8	50.0	10.0	43	s.			2		0			0	0		
Stockholm	29.61	752.0	29.78	756.5	51.8	11.0	34	ne.			2		10			0	0		
Wisby	29.73	755.2	29.79	756.7	37.8	3.2	87	nnw.			4		10			0	0		
Sub-series.																			
Upsala	29.67	753.5	29.75	755.7	53.6	12.0	36	ne.	6.3	2.8			2			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.35	720.0	29.74	755.3	66.0	18.9	54	w.			2		8			0.004	0.1	covered	The Observatory.
TURKISH.																			
Constantinople			29.72	754.8	70.5	21.4	51	sw.	13	6.0			4		sw.	0	0		The Observatory.
Valona			29.93	760.1	64.0	17.8		sw.			1		5			0.08	2.0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.6	74.8	23.8	59	sw.			2	c	1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.71	678.4			68	20.0	44						5 n		nw.				Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.03	762.7	30.11	764.8	52.6	11.4	59	sw.	4	1.8		3 c	0	w.		0	0	clear	J. O. Barnes.
Alpena, Michigan	29.14	740.1	29.80	756.9	54	12.2	93	s.	6	2.7		3 k	7 s	w.	sw.	0.01	0.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.90	632.4	29.72	754.9	40	4.4	54	ne.	8	3.6		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.20	690.9	30.04	763.0	33	0.6	71	s.	1	0.4		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.99	736.3	30.16	766.1	64.5	18.1	70	w.	7	3.1		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.13	765.3	30.14	765.5	54	12.2	62	nw.	4	1.8		4 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.02	762.5	30.21	767.3	65	18.3	84	se.	1	0.4		0	9 k		se.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.13	765.3	30.18	766.6	56	13.3	69	n.	1	0.4			10s;fg		w.	0	0	cloudy	Geo. W Felger.
Barnegat City, New Jersey	30.11	764.8	30.13	765.3	55.0	12.8	69	nw.	6	2.7		7 c	0	nw.		0	0	fair	G. A. Hill.
Behring Id., Behring Sea	29.68	753.9	29.70	754.4	28.4	— 2.0		nw.	8	3.6			10 n			inap.	inap.	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.52	724.4	30.08	764.0	38.0	3.3	92	ne.	4	1.8			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.21	691.1	30.00	762.0	33	0.0	62	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.75	679.4	29.93	760.2	42	5.6	76	ne.	6	2.7			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.20	717.8	30.05	763.3	35	1.7	89	nw.	4	1.8		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.06	763.5	30.09	764.3	50	10.0	77	nw.	9	4.0		3 cs	0	w.		0	0	clear	J. T. Elker.
Boise City, Idaho	26.95	684.5	29.79	756.7	47	8.3	86	w.	1	0.4			10 s			0.15	3.8	cloudy	J. Kenealy.
Boston, Massachusetts	29.88	758.9	30.04	763.0	55.0	12.8	62	w.	8	3.6		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.98	761.5	66.3	19.1	93	e.	2	0.9		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.29	744.0	30.03	762.7	49.4	9.7	61	s.	12	5.4			10 n		w.	inap.	inap.	light rain	W. Finn.
Buford, Fort, Dakota	28.09	713.5	30.07	763.8	32	0.0	81	se.	2	0.9		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.72	754.9	30.01	762.2	52.0	11.1	59	s.	8	3.6		0	6 s		w.	0	0	fair	D. N. Farnell.
Cairo, Illinois	29.74	755.4	30.14	765.5	62.6	17.0	70	s.	2	0.9		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.16	766.1	30.18	766.6	57	13.9	93	w.	4	1.8		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey																			W. E. Smith.
Cape Mendocino, California	29.19	741.4	29.87	758.7	47	8.3	100	calm			0		fg			0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	77	25.0	76	se.	11	4.9		1 c	1 k		se.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.11	764.8	30.16	766.1	65.0	18.3	84	ne.	4	1.8		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.33	745.0	30.17	766.3	62.5	16.9	70	se.	3	1.3		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.34	745.2	30.15	765.8	54.0	12.2	86	nw.	1	0.4		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	29.85	758.2	42.4	5.8	62	ne.	4	1.8			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.16	740.7	29.86	758.4	58.5	14.7	67	sw.	9	4.0		5 c	0	w.		0.02	0.5	fair	John Laurens.
Chincoteague, Virginia	30.14	765.5	30.16	766.1	56	13.3	69	ne.	5	2.2		hz.	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.45	748.0	30.10	764.5	55.0	12.8	74	se.	4	1.8		3 c	0	w.		0	0	clear	L. Dunne.
Cleveland, Ohio	29.28	743.7	30.01	762.2	52.8	11.0	57	se.	9	4.0			10 s		w.	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.17	715.5	29.96	761.0	60	15.6	87	se.	3	1.3		4 cs	0			0	0	fair	T. J. Kenan.
Columbus, Ohio	29.22	742.2	30.06	763.5	55	12.8	69	se.	4	1.8		7 cs	0	sw.		0	0	fair	D. Cuthbertson.
Concho, Fort, Texas	28.04	712.2	29.94	760.5	62.0	16.7	84	se.	6	2.7		5 cs	0			0	0	fair	J. McGlone.
Davenport, Iowa	29.21	741.9	29.85	758.2	63	17.2	68	sw.	16	7.2		6 cs	0	sw.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.15	638.8	29.87	758.7	63	17.2	60	se.	2	0.9		4 c	6 s		se.	0	0	cloudy	J. Williams.
Dayton, Washington Ty	28.01	711.4	29.70	755.9	51	10.6	74	sw.	5	2.2		5 k	0			0	0	fair	D. Moore.
Deadwood, Dakota	25.35	643.9	29.87	758.7	39	3.9	82	calm	0	0			10 s			0	0	cloudy	F. Willson.
Delaware Breakwater, Del	30.15	765.8	30.17	766.3	51	10.6	93	nw.	1	0.4		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.67	626.6	29.83	757.7	47.0	8.3	74	n.	2	0.9			10 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	28.98	736.1	29.87	758.7	65	18.3	63	sw.	8	3.6		3 cs	3 s	sw.	sw.	0.05	1.3	fair	F. W. Conrad.
Detroit, Michigan	29.28	743.7	29.98	761.5	55.0	12.8	93	se.	14	6.3			10 n			0.20	6.6	light rain	E. R. Brace.
Dodge City, Kansas	27.28	692.9	29.84	757.9	60	15.6	67	sw.	10	4.5		3 c	0	n.		0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.11	739.4	29.81	757.2	64	17.8	64	w.	1	0.4		0	0			inap.	inap.	clear	J. Harvey Smith.
Duluth, Minnesota	29.24	742.7	29.98	761.5	39	3.9	89	sw.	4	1.8			10 s		sw.	0.13	3.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.20	741.7	30.00	762.0	70.0	21.1	77	se.	6	2.7		1 c	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.04	636.0	29.72	754.9	38	3.3	66	w.	4	1.8		4 cs	2 s	w.	w.	0	0	fair	H. R. Boynton.
Eastport, Maine	29.89	759.2	29.96	761.0	42.0	5.6	78	n.	7	3.1			10 s		n.	0.25	6.3	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.18	690.4	29.88	758.9	64	17.8	65	se.	12	5.4		8 c	0	se.		0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.20	665.5	29.84	757.9	68.0	20.0	49	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.32	744.7	30.04	763.0	53	11.7	72	s.	10	4.5			10 s		nw.	inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.17	740.9	29.83	757.7	41.5	5.3	87	n.	12	5.4			10 s		n.	0.15	3.8	cloudy	George Heathcote.
Galveston, Texas	30.03	762.7	30.07	763.8	72	22.2	82	calm	0	0		0	fg.			0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.14	740.1	29.80	756.9	54.0	12.2	80	s.	17	7.6			10 s		sw.	0.63	16.0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.12	638.0	29.73	755.1	52	11.1	41	e.	4	1.8		2 cs	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.15	765.8	30.17	766.3	60	15.6	75	ne.	8	3.6		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.71	653.0	29.88	758.9	44	0.7	68	w.	4	1.8		8 cs	0			0.10	2.5	cloudy	N. C. Smith.
Huron, Dakota	28.66	728.0	30.02	762.5	30.5	2.5	81	n.	11	4.9			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	30.01	762.2	58.0	14.4	57	sw.	8	3.6		8 cs	1 k	w.	sw.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.01	762.2	30.04	763.0	68.9	20.5	90	se.	7	3.1		2 cs	2 k	nw.	se.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.85	732.8	30.00	762.0	60	15.6	44	se.	7	3.1		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	30.08	764.0	30.12	765.0	75	23.9	82	se.	3	1.3		2 cs	2 k		se.	inap.	inap.	fair	J. W. Smith.

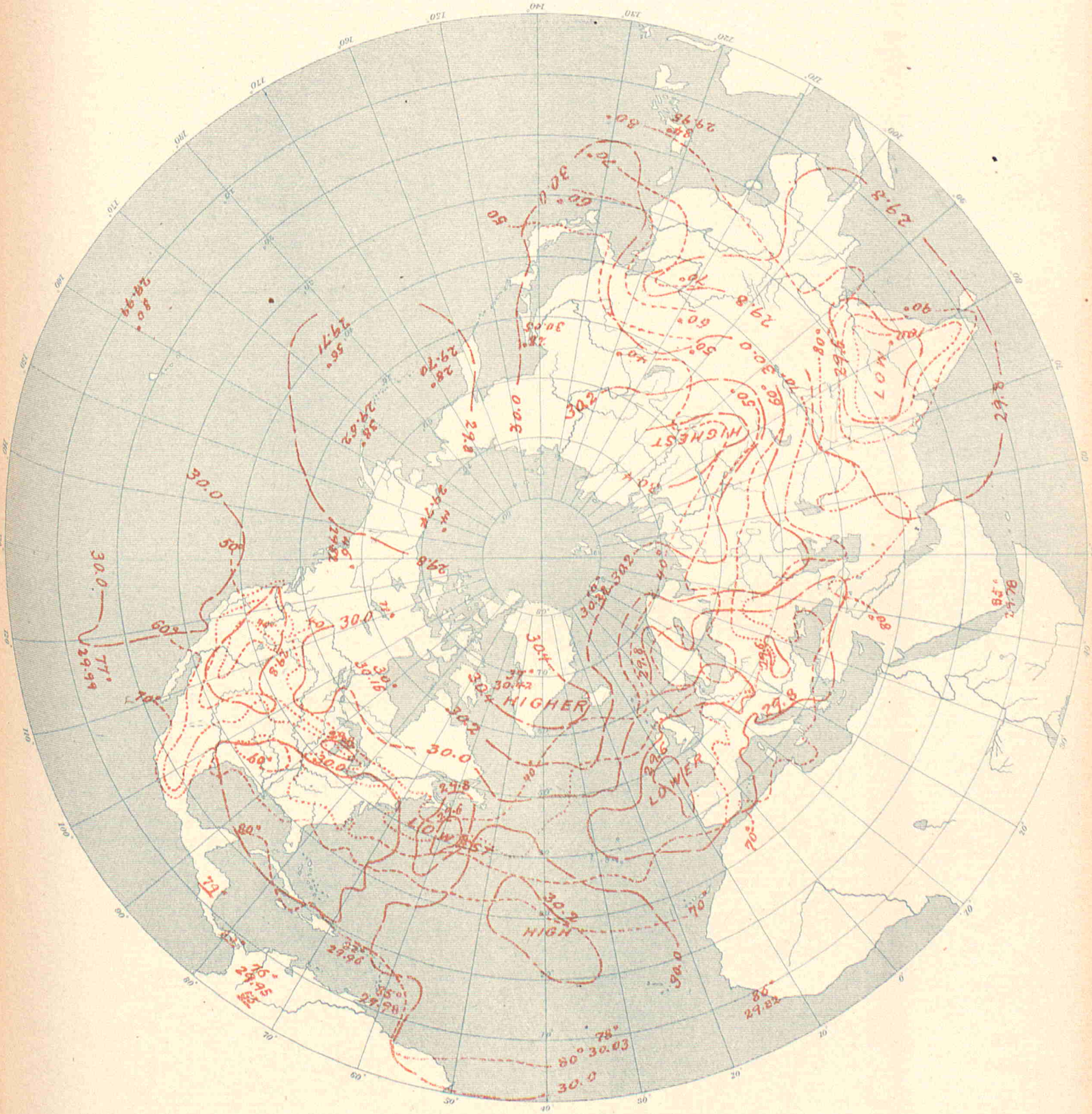
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.52	699.0	29.97	761.2	40	4.4	82	n.	8	3.6	.....	0	3 s	.....	.....	0	0	clear	W. B. Lamar.
Keokuk, Iowa	29.27	743.4	29.92	760.0	64.5	18.1	58	sw.	16	7.2	.....	1 ck	0	w.	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	77.0	25.0	76	ne.	11	4.9	.....	.....	9m; ks	.....	e.	0.05	1.3	threatening	Lee M. Melbourne.
Kittyhawk, North Carolina	30.18	766.6	30.20	767.1	55.5	13.1	86	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.13	739.9	30.15	765.8	55.4	13.0	72	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.07	738.4	29.83	757.7	51	10.6	93	n.	16	7.2	.....	.....	10 s	.....	.....	0.29	7.4	cloudy	S. C. Emery.
Leavenworth, Kansas	29.07	738.4	29.95	760.7	64	17.8	58	s.	4	1.8	.....	2 cs	0	w.	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	28.92	734.6	29.76	755.9	54.0	12.2	83	e.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	W. Bell.
Little Rock, Arkansas	29.78	756.4	30.09	764.3	57	13.9	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.61	752.1	30.01	762.2	52	11.1	93	n.	1	0.4	.....	.....	10 s	.....	se.	0.75	19.0	cloudy	T. S. Collins.
Louisville, Kentucky	29.53	750.0	30.08	764.0	54	12.2	74	e.	3	1.3	.....	9 c	0	.....	.....	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.48	748.8	30.16	766.1	52.8	11.6	84	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.16	740.7	29.81	757.2	40.0	4.4	94	n.	2	0.9	.....	10 k	0	.....	.....	0.45	11.4	light rain	D. B. Notson.
Macon, Fort, North Carolina	30.17	766.3	30.18	766.6	59.0	15.0	87	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.56	649.2	29.97	761.2	40	4.4	50	se.	4	1.8	.....	10 k	0	.....	.....	0	0	cloudy	F. Burke.
Marquette, Michigan	29.17	740.9	29.89	759.2	33	0.6	88	nw.	17	7.6	.....	.....	fg.	.....	.....	0.54	13.7	dense fog	E. H. Thompson.
Memphis, Tennessee	29.76	755.9	30.09	764.3	62	16.7	68	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.02	737.1	29.76	755.9	59	15.0	70	w.	11	4.9	.....	0	9 s	.....	w.	0.04	1.0	cloudy	W. Line.
Missoula, Fort, Montana	26.55	674.4	29.85	758.2	51	10.6	66	ne.	6	2.7	.....	5 cs	0	n.	.....	0.09	2.3	fair	J. H. Young.
Mobile, Alabama	30.07	763.8	30.11	764.8	63.7	17.6	62	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.85	758.2	30.08	764.0	61	16.1	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.07	738.4	30.05	763.3	35	1.7	79	n.	12	5.4	.....	0	0	.....	.....	0.03	0.8	clear	H. Bessaut.
Mt. Washington, N. H	23.73	602.7	29.91	759.7	27.2	— 2.7	96	nw.	40	17.9	.....	3 c	0	nw.	.....	0	0	clear	S. W. Beall.
Nashville, Tennessee	29.55	750.6	30.12	765.0	51.5	10.8	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.97	761.2	30.09	764.3	52.5	11.4	88	nw.	4	1.8	.....	10 c	hz.	nw.	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.05	763.3	30.10	764.5	56	13.3	57	calm	0	0	.....	2 c	0	n.	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	69.0	20.6	76	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. C. Smyth.
New York, New York	29.97	761.2	30.15	765.8	53	11.7	55	w.	4	1.8	.....	8 cs	0	w.	.....	0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	30.15	765.8	30.18	766.6	61	16.1	78	nw.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	26.97	685.0	29.84	757.9	51.6	10.9	84	e.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.80	756.9	29.84	757.9	40.0	4.4	82	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.69	728.7	29.85	758.2	66.6	19.2	75	sw.	6	2.7	.....	3 c	5 k	.....	w.	0	0	cloudy	A. Pollak.
Ogdaamie, Alaska	29.72	754.9	29.74	755.4	13.8	—10.1	100	nne.	25	11.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.72	754.9	30.05	763.3	50.0	10.0	71	s.	6	2.7	.....	.....	10 s	.....	w.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.54	750.3	30.08	764.0	59.5	15.3	87	se.	3	1.3	.....	4 cs	0	s.	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.07	763.8	30.10	764.5	68.2	20.1	65	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	30.06	763.5	30.16	766.1	56	13.3	74	nw.	5	2.2	.....	hz.	0	.....	.....	0	0	dense haze	T. F. Townsend.
Pike's Peak, Colorado	17.82	452.6	29.88	758.9	23	— 5.0	73	sw.	28	12.5	.....	1 c	1 s	.....	.....	0	0	clear	H. Hall.
Ploche, Nevada	23.82	605.0	29.74	755.4	35.0	1.7	100	s.	5	2.2	.....	.....	10 n	.....	s.	0.07	1.8	light snow	F. R. Day.
Pittsburg, Pennsylvania	29.29	744.0	30.09	764.3	55.0	12.8	72	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	W. A. Reid.
Poplar River, Montana	27.91	708.9	30.03	762.7	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.22	742.2	29.90	759.4	49.0	9.4	96	s.	18	8.0	.....	.....	10 n	.....	.....	0.19	4.8	light rain	M. H. Perry
Portland, Maine	29.95	760.7	30.00	762.0	49.5	9.7	71	e.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	W. W. Eichelberger
Portland, Oregon	29.67	753.6	29.74	755.4	52.0	11.1	86	s.	2	0.9	.....	8 cs	0	s.	.....	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	61	16.1	78	e	7	3.1	.....	0	0	.....	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.59	624.6	29.69	754.1	44.0	6.7	64	s.	3	1.3	.....	.....	10 s	.....	s.	0	0	cloudy	Jas Cassidy.
Provincetown, Mass	30.01	762.2	30.04	763.0	49.5	9.7	71	nw.	6	2.7	.....	0	hz.	.....	.....	0.04	1.0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.04	763.0	30.05	763.3	73.5	23.1	79	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.54	750.3	29.88	758.9	52	11.1	93	n.	2	0.9	.....	.....	10 n	.....	s.	0.01	0.3	light rain	J. R. Williams.
Rochester, New York	29.39	746.5	30.05	763.3	50	10.0	64	sw.	11	4.9	.....	.....	10k; hz.	.....	sw.	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.29	744.0	29.84	757.9	51.5	10.8	86	ne.	2	0.9	.....	0	9 s	.....	.....	0.07	1.8	cloudy	J. J. Nanry.
Sacramento, California	29.82	757.4	29.90	759.4	53.0	11.7	93	calm	0	0	.....	.....	10 n	.....	.....	0.27	6.9	light rain	J. A. Barwick.
St. Louis, Missouri	29.46	748.3	30.05	763.3	59.7	15.4	84	s.	12	5.4	.....	7c;cs	0	sw.	.....	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.67	753.6	29.70	754.4	32	0.0	100	nw.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.10	739.1	29.94	760.5	42.0	5.6	82	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.15	740.4	30.01	762.2	33	0.6	88	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.39	644.9	29.71	754.6	54	12.2	45	calm	0	0	.....	3 k	0	sw.	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.36	745.7	30.06	763.5	67	19.4	68	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Davis.
San Diego, California	29.90	759.4	29.97	761.2	54.1	12.3	80	nw.	5	2.2	.....	2 k	8 ks	sw.	nw.	0.13	3.3	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.11	764.8	30.14	765.5	52.0	11.1	80	nw.	7	3.1	.....	9 k	0	nw.	.....	0	0	cloudy	B. A. Blundon.
Sanford, Florida	30.04	763.0	.....	.....	72.5	22.5	90	ne.	1	0.4	.....	0	8 k	.....	n.	0	0	cloudy	J. B. Marbury.
San Francisco, California	29.83	757.7	29.90	759.4	52	11.1	86	w.	8	3.6	.....	.....	10 s	.....	sw.	0.28	7.1	cloudy	N. Gorom.
Santa Fé, New Mexico	23.18	588.8	29.79	756.7	50	10.0	39	e.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.16	766.1	71	21.7	76	e	4	1.8	.....	0	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.35	669.3	29.95	760.7	35	1.7	89	w.	4	1.8	.....	5 k	0	se.	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.88	758.9	30.12	765.0	60.0	15.6	87	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.73	729.7	29.95	760.7	60	15.6	84	s.	6	2.7	.....	4 c	0	.....	.....	0	0	fair	W. M. Mattingly.
Sitka, Alaska	29.76	755.9	29.82	757.4	45.5	7.5	83	calm	0	0	.....	.....	10 n	.....	.....	0.30	7.6	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.59	751.6	30.06	763.5	56.0	13.3	86	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville North Carolina	30.15	765.8	30.19	766.8	62	16.7	87	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.78	705.6	29.83	757.7	50	10.0	74	n.	1	0.4	.....	7 ck	2 s	.....	.....	0	0	cloudy	John F. Hemenway.
Springfield, Illinois	29.29	744.0	29.96	761.0	58.5	14.7	67	sw.	16	7.2	.....	5 c	0	w.	.....	0	0	fair	T. B. Jennings.
Springfield, Missouri	28.62	726.9	30.04	763.0	59	15.0	75	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Starkville, Miss	29.65	753.1	30.12	765.0	63	17.2	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.24	717.3	30.07	763.8	32	0.0	88	nw.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	A. Schneider.
Stockton, Fort, Texas	26.92	683.8	29.93	760.2	62	16.7	90	se.	6	2.7	.....	5 ck	0	.....	.....	0.12	3.0	fair	A. J. Warren.
Thatcher's Island, Mass	29.98	761.5	30.03	762.7	53.5	11.9	70	nw.	11	4.9	.....	2 k	0	w.	.....	0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.09	688.1	29.76	755.9	56	13.3	33	w.	.....	.....	1	2 cs	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.27	743.4	29.95	760.7	59	15.0	60	s.	0	2.7	.....	.....	10 s	.....	w.	inap.	inap.	threatening	A. Buell.
Tucson, Arizona	27.45	697.2	29.79	756.7	47	8.3	52	s.	2	0.9	.....	1 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.60	751.8	29.62	752.3	38	3.3	82	w.	1	0.4	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	47	8.3	27	se.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.86	758.4	30.11	764.8	61.6	16.4	61	e.	6	2.7	.....	2 c	hz.	sw.	.....	0	0	clear	James Kenealy.
Visalia, California	29.54	750.3	29.91	759.7	49.0	9.4	95	calm	0	0	.....	.....	10 s	.....	.....	0.49	12.4	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.38	619.2	29.86	758.4	45.2	7.3	87	nw.	10	4.5	.....	8 k	0	.....	.....	0	0	cloudy	T. M. Ambler.
Washington, D. C.	30.07	763.8	30.18	766.6	54.5	12.5	82	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.86	656.8	29.71	754.6	63.9	17.7	43	sw.	23	10.3	.....	2 c	2 s	s.	.....	inap.	inap.	fair	F. H. Brandenburg.
Williamsport, Pa	29.52	749.8	30.12	765.0	53	11.7	61	nw.	1	0.4	.....	.....	10 ks	.....	nw.	0	0	threatening	B. F. Hough.
Wilmington, N. Carolina	30.13	765.3	30.18	766.6	63	17.2	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.38	644.6	29.73	755.1	38	3.3	82	sw.	7	3.1	.....	.....	10 n	.....	sw	0.22	5.6	light rain	J. Grover.
Yankton, Dakota	28.66	728.0	29.94	760.5	48	8.9	63	n.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. H. Attfield.
Yuma, Arizona	29.72	754.9	29.87	758.7	57.9	14.4	58	nw.	5	2.2	.....	0	1 s	.....	sw.	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	55.0	12.8	77	calm	0	0	.....	.....	10 s	.....	.....	0.55	14.0	foggy	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	29.98	761.5	.....	.....	78	e.	1	0.4	.....	4 cs	3 s	.....	e.	0.06	1.5	fair	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.05	763.3	79	26.1	82	se.	.....	.....	2	4 c	4 k	e.	e.	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.95	760.7	76	24.4	94	calm	.....	.....	0	.....	10 ks	.....	calm	1.29	32.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	79	26.1	97	ne.	.....	.....	2	3 cs	.....	ne.	.....	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallon.
Santiago de Cuba, W. I.	29.96	761.0	29.98	761.5	78	25.6	74	n.	5	2.2	.....	5 cs	1 s	.....	ne.	0.34	8.6	.....	R. Mason.
York Factory, B. A.	30.10	764.5	30.16	766.1	29.5	— 1.4	94	nw.	9	4.0	.....	4 k	4 s	nw.	nw.	0.05	1.3	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1.—North Atlantic.—Continued.																		
S. S. State of Florida, N. 54° 21 W. 13° 53′			49	9.4		n.			4		9		nw.	2 h'r	2 h'r	sm'h		cloudy.
S. S. State of Nevada, N. 41° 00′, W. 58° 29′ †	29.61	752.1	64	17.8		w			6		10		sw.	20 h'r	20 h'r	h'vy	s.	showery.
S. S. Lepanto, Gibralter Harbor, Mediterranean*	29.87	758.7	62	16.7		nw.			6–7		8		sw.	4 h'r	4 h'r			heavy rain.
S. S. Marengo, N. 50° 37′, W. 0° 08′			52	11.1		sw.			5		10			6 h'r	6 h'r	sm'h		overcast.
S. S. Otranto, N. 46° 29′, W. 39° 28′	29.96	761.0	58	14.4		nw.			6		1		nw.	sh'rs	sh'rs	h'vy	w.	clear.
S. S. Romano, New York, N. Y†	30.07	763.8	55	12.8		nnw.			2		9		nnw.					cloudy.
S. S. Salerno, N. 34° 03′, E. 20° 57′			62	16.7		w.			4		1		w.	0	0	sm'h	w.	clear.
S. S. Dominion, N. 48° 58′, W. 67° 25′ *†	30.00	762 0	44	6.7		w.			3		10		w.			sm'h	w.	cloudy.
S. S. Toronto, N. 49° 31′, W. 25° 05′	29.94	760.5	58	14.4		ene.			3		1		ene.	0	0	mod.	e.	clear.
S. S. Oregon, N. 53° 48′, W. 31° 40′	30.12	765.0	52	11.1		ese.			4		4		ese.			mod.	sw.	fair.
S. S. Lake Huron, N. 47° 26′, W. 70° 16′	29.96	761.0	35	1.7		ne.			1		fg.			0	0	sm'h		foggy.
S. S. Lake Manitoba, N. 50° 30′, W. 22° 50′	30.03	762.7	55	12.8		e.			5		8		e.	3 h'r	3 h'r	sm'h	sse.	squally.
S. S. Daniel Steinmann, New York, N. Y†	30.15	765.8	58	14.4		nw.			2		10			0	0			hazy.
S S. Norman, N. 39° 14′, W. 75° 12′	30.02	762.5				nnw.			1		0			0	0			clear.
S. S. Saxon, Philadelphia, Pa	30.15	765.8				nnw.			3		8		nw.	0	0			cloudy.
S. S. Baltic, N. 50° 49′, W. 17° 56′*	29.91	759.7	52	11.1	73	ne.			5		3		ne.	0	0	mod	ne.	clear.
S. S. Celtic, N. 48° 37′, W. 33° 00′†	29.89	759.2	53	11.7		var.			1		10		w.	8 h'r	8 h'r	mod.	w.	overcast.
S. S. Iowa, N. 42° 29′, W. 66° 02′ †	29.98	761.5	43	6.1		nw.			5		9		nw.	0	0	r'gh	var.	cloudy.
S. S. Antonio Lopez, N. 20° 42′, W. 74° 21′	30.04	763.0	78	25.6	73	n.			2		1			0	0	sm'h		clear.
Schr. Abbie H. Gheen, New York, N. Y†	30.16	766.1	55	12.8		calm			0					0	0			overcast.
Bg. Abbie Clifford, N. 18° 11′ W. 65° 43′†	30.03	762.7	81	27.2		se.			3		2		se.	0	0			clear.
Bk. Aquidneck, N. 25° 48′, W. 65° 43′						var.			2				var.	4 h'r	4 h'r	light	se.	cloudy.
Bk. Alpha, N. 39° 30′, W. 64° 30′			50	10.0		nw.			6		10		nnw.	0	0	mod.	nw.	cloudy.
Bg. Alcira, N. 28° 24′, W. 65° 05′	29.99	761.7	72	22.2		s.			3		10		var.	10 h'r	10 h'r	mod.	s.	raining.
Bk. Adelajde, N. 30° 38′, W. 53° 30′*†	30.21	767.3	75	23.9		sse.			4		1		sse.	0	0	sm'h	sse.	clear.
Schr. Annie R. Lewis, N. 31° 18′ W. 68° 02′†	30.02	762.5	71	21.7		n.			5		10		nne.	4 h'r	4 h'r	long	n.	cloudy.
Schr. Authur Burton, Boston, Mass.						w.			2		5		sw.	0	0	chop		fine.
Bk. Aureola, St. Vincent, W. I†	29.85	758.2	88	31.1		ene.			1		2		ene.	0	0			clear.
Bk. Achille F, N. 34° 30′, W. 23° —†	29.99	761.7	59	15.0	77	wsw.			5		3		w.	0	0	long	ne	fine.
Bk. Annie R. Storer, N. 28° 05′. W 68° 24′ †	30.00	762.0				nnw.			2		4		nnw.	1 h'r	1 h'r	sm'h	sse.	clear.
Bgt. Achsah, Kingstown, St Vincent, W. I†	29.91	759.7	82	27.8		ene.			1		4		ene.	0	0			fair.
Bk. Champion, N. 21° 00′, W. 39° 45′†	30.20	767.1	74	23.3	72	ne.			3		2		ne.	0	0	long	ne.	clear.
Bkt. C. S. Bushnell, N. 34° 10′ W. 53° 40′	30.08	764.0				s.			5		5		sw.	0	0	mod.	var.	fine.
S. Cornelius, N. 50° 25′, W. 27° 57′†	29.94	760.5	51.1	10.6		ene.			5		6		e.	4 h'r	4 h'r	cross	var.	squally.
Bk. Commerce, N. 34° 34′, W. 69° 10′			65	18.3		n.			5		2		n.	8 h'r	8 h'r	h'vy	n.	fine.
Bk. Childwall, N. 4° 15′. W. 32° 30′			77	25.0		e.			4		10		var.	8 h'r	8 h'r	light	ne.	heavy rain.
S. David Stewart, N. 36° 15′, W. 72° 32′†	30.14	765.5				ssw.			1					0	0	light	w.	hazy.
S. S.D. J. Foley, N. 21° 36′, W. 74° 13′ *†	30.00	762.0	81	27.2	78	nne.			3		3		nne.	0	0	short	nne.	clear.
Bk. David A. Preston, Boston, Mass			54	12.2		w.			2		5		w.	0	0			
Bk. Don Justo., N. 36° 10′, W. 75° 10′						se.			1		0			0	0	mod.	ene.	hazy.
Schr. Edith R. Seward, N. 25° 38′, W. 70° 20′ †	30.08	764.0	76	24.4		nw.			1		3		n.	0	0	mod.	nne.	clear.
S. E. J. Spicer, Liverpool, Eng	29.74	755.4	52	11.1	86	ese.			2		0			0	0			clear.
Bk. E. D. Bigelow, Digby Basin, N. S*†	29.80	756.9				ne.			3				w.	0	0			fair.
U. S. Fish Com. S. S. Fish Hawk, Quantico Creek, Va †	30.25	768.3	55	12.8	100	nw.			1		9		nw.	0	0			cloudy.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.12	765.0				s.			4					0	0			clear.
S. Festina Lente, N. 47° 17′, W. 59° 31′	29.75	755.6	33	0.6		ne.			6		10			10 h'r	10 h'r	sm'h		snowing.
Bg. Gipsy Queen, N. 24° 35′, W. 80° — * †	30.10	764.5				e.			6		1		ne.					fair.
Bk. Godeffroy, N. 31° 50′ W. 72° 08′*	30.06	763.5	67.6	19.8	78	nne.			5–6		5		nne.	sq'lls	sq'lls	r'gh	nnw.	fair.
Bk. Galeon, N. 20° 49′, W. 90° 33′ †	29.95	760.7	78	25.6		e.			1		0			0	0	sm'h	ne.	blue sky.
S. Hedwig, N. 37° 53′. W. 57° 30′	29.86	758.5	68.5	20.3	92	s.			7		8		var.	0	0	4	s.	
Bk. Hattie G. McFarland, Port Royal, S C*†	30.15	765.8	70	21.1		ene.			4		2		se.	0	0	sm'h		fine.
Bk. John H. Pearson, N. 33° 04′, W. 51° 08′						sw.			1				sw.	0	0	sm'h	ne.	clear.
Schr. Isabel Alberto, N. 32° 50′, W. 77° 00′ †	30.10	764.5				nne.			3		3		nne.	0	0	sharp	ne.	fair.
Bk. Cato, Setubal, Portugal*†	29.85	758.2				sw.			3		2		sw.	0	0			clear.
Schr. John L. Thomas, N. 31° 45′, W. 78° 36′*†	30.22	767.6				ne.			3		2		ene.	0	0	cf'd	var.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	30.03	762.7				ene.			2		4		ne.	0	0			fair.
Schr. Jennie N. Huddell, N. 32° 50′, W. 76° 20′ †	30.16	766.1	70	21.1	75	n			5		2		ne.	0	0	long	ne.	fair.
Bkt. Josephine, N. 4° 18′, W. 43° 12′ †	29.93	760.2	82	27.8	75	nne.			2		10			3 h'r	3 h'r	long	ne	light rain.
Schr. Leonessa, N. 33° 20′, W. 76° 35′†	30.12	765.0				ne.			1		0			0	0	cross		clear.
Bg. L. & W. Armstrong, San Juan, Porto Rico, W. I*†	30.08	764.0				s.			1		1		ne.	0	0	sm'h		fine.
Light-house Tender Laurel, Appalachicola Bay Fla†	30.10	764.5	74	23.3		ne.			1		2		ese.	0	0			clear.
Bg. Lilian, N. 23° 08′, W. 58° 42′†	30.04	763.0				se.			4		4		sse.	1½ h'r	1½ h'r	mod.	var.	fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.97	761.2	80	26.7		calm			0		1			0	0			clear.
S. S. Madrid, N. 39° 08′, E. 17° 42†	29.94	760.5	65	18.3	78	wnw.			5		0			0	0	sm'h		clear.
Schr. Minnie A. Bonsall, Brunswick, Ga †	30.16	766.1	79	26.1		e.			1		8		se.	0	0			fair.
Bkt. Kryolith, N. 55° 05′ W. 28° 49′ *†	30.24	768.1				e.			6		5		e.			mod.	e.	showery
S. Mt Washington, N. 23° 25′, W. 34° 50′ *†	30.24	768.1	78	25.6	50	ese.			4		3		ese.	0	0	mod.	nnw.	clear.
Bgt. Myrtle, Clementsport, N. S*†	30.00	762.0				n.			2		0			0	0			clear.
Bk. Mathais, N. 38° 39′, W. 73° 45′ *†	30.25	768.3	52	11.1		nnw			2		3		sw.	0	0	long	e.	fine.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†	29.96	761.0							2		4		sw.	shr's	sh'rs	short	n.	clear.
Schr. Maud Briggs, N. 35° 20′, W. 67° 53′*†	30.03	762.7				nne.			6		3		nne.	0	0	long	nne.	clear.
Bg. O. C. Clary, N. 32° 57′, W. 72° 18′*†	30.04	763.0	65	18.3		n.			4		4		n.			r'gh	n.	fair.
S. S. Raleigh, N. 23° 20′, W. 72° 00′†	30.05	763.3	75	23.9		ne.			3		3		ne.			sm'h		fine.
S. Rudolph, N. 48° 25′, W. 25° 14′			52.0	11.1		e.			4–5		7		e.	1 h'r	1 h'r	mod.	e.	squally.
Bk. Rebus, N. 44° 30′, W. 35° 31′	29.82	757.4	51	10.6		n.			4		2		nne.	light	light	long	nw.	fair.
Bg. Rising Sun, N. 30° 52′, W. 69° 51′*†	30.00	762.0	75	23.9		ne.			6		10		ne.	0	0	short	nne.	squally.
Bk. Rosalie, N. 21° 45′ W. 62° 20′*†	30.04	763.0				se.			3				ese.	0	0	mod.	ese.	clear.
S. Salisbury, N. 46° 07′, W. 15° 06′*	29.76	756.0	51.3	10.7	81	nne.			4		10		nw.	1 h'r	1 h'r	mod.	nne.	cloudy.
Bk. Southern Belle, Huelva, Portugal†	29.82	757.4	60	15.6		ssw.			4		10			sq'lls	sq'lls			cloudy.
S. St. Francis, N. 9° 00′, W. 34° 00′†	30.03	762.7	78	25.6	78	ne.			6		4		ne.	0	0	mod.	ne.	fair.
Bk. St. Lawrence, N. 23° 52′, W. 58° 24′*†	30.00	762.0				se.			5				se.			light	e.	rainy.
S. S. Strathleven, N. 36° 58′, E. 11° 41′	29.96	761.0	61.5	16.4	84	sse.			2		2		wsw.	0	0	2	wnw.	blue sky.
Bgt. Sunlight, N. 17° 47′, W. 56° 14′						ese.			4		3		ese.	1 h'r	1 h'r	mod.	se.	fair.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	29.92	760.0				n.			1		0							
Bk. Usko, N. 36° 45′, W. 75° 03′*	30.10	764.5	63	17.2		nne.			1		3		se.	0	0	long	e.	clear.
S. Vincenzo Accame, N. 36° 20′ W. 46° 01′.†	30.23	767.9	68.0	20		ne.			3		0			0	0	r'gh	n.	clear.
Bk. Winifred, N. 13° 27′, W. 50° 20′*†	30.10	764.5											ese.	rain	rain		e.	d. clouds.
Schr. Wm. Wilcox, Charleston, S. C*†	30.15	765.8				nne.			1		5		ne.	0	0			fair.
S. Wm. McGilvery, N. 29° 21′, W. 41° 09′ *†	30.25	768.3	73	22.8	50	calm			0		8		nnw.	0	0	hv'y	n.	fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.15	765.8	60.8	16.0	98	sse.			1		2	n.						d clouds.
H. M. S. Boadicea, Cape Town, Cape Colony	30.15	765.8	64	17.8	94	wnw.			2		4							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.05	763.3	55	12.8	97	s.			1		10							foggy.
H. M. S. Thetis, S. 33° 55′, W. 49° 03′	30.04	763.0	68	20.0	90	se.			2		10					2	e.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.03	762.7	56	13.3	100	sw.	2	0.9			10		calm	0.01	0.3	sm'h		dense fog.
U. S. S. Enterprise, Cape Town, Cape Colony*	30.07	763.8	65	18.3	78	n.			2		5		calm			sm'h		fair.
U. S. S Galena, Montevideo, Uruguay*	30.03	762.7	56	13.3	100	calm			0		10					sm'h		foggy.
S. S. Jerome, Amazon River, Brazil *	29.76	755.9	79	26.1		calm			0		0			1 h'r	1 h'r			clear.
S. S. Archimedes, S. 19° 47′, W. 39° 32′	30.06	763.5				ese.			4		5		ne.	0	0	light	ese.	fair.
S. S. Hevelius, S. 34° 30′, W. 53° —†	30.22	767.6	74	23.3		se.			2		3		se.	0	0	sm'h		clear.
S. S. Ptolemy, S. 14° —, W. 35° 30′	30.07	763.8	81.5	27.5	70	e.			5	6 c	km			0	0	3	ese.	fair.
Bk. Gronsvaer, S. 9° 25′, W. 32° 05†	29.92	760.0	79.6	26.4		se.			5		5		se.	0	0	mod.	ese.	fair.
S. Minnie N. Gerow, S. 21° 43′ W. 39° 10′†	30.18	766.6	78	25.6		ese.			5		3		e.	0	0	long	s.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic																		
H. M. S. Alexandra, Malta, Mediterranean	30.02	762.5	73	22.8	59	calm			0		1	calm						blue sky.
H. M. S. Dido, Barbadoes, W. I.	29.95	760.7	80	26.7		e.			2		2	e.						d. clouds.
H. M. S. Flamingo, N. 26° 41′, W. 68° 38′	29.97	761.2	75	23.9	90	nnw.			2		5	n.				4	n.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.97	761.2	71	21.7	76	sw.			1		2							showery.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.80	756.9	63	17.2	78	ssw.			2		7					2	nnw.	d. clouds.
H. M. S Rocket, N. 35° 20′, W. 39° 20′	30.17	766.3	62	16.7	77	nne.			3		3					1	nw.	d. clouds.
H. M. S. Tyne, N. 17° 30′, W. 83° 32′	29.94	760.5	80	26.7	82	nw.			3		9	calm						squally.
U. S. Tonedos, Halifax, N. S.	29.82	757.4	40	4.4	91	nnw.			6		9	nne.						clear.
U. S. Navy Yard, Pensacola, Fla.	30.07	763.8	70	21.1	61	n.	2	0.9			0			0	0			clear.
U. S. Navy Yard, Portsmouth, N. H*	29.96	761.0	50	10.0	79	nw.	4	1.8			0			0	0	long		clear.
U. S. S. Alliance, N. 34° 03′, W. 74° 33′	30.17	766.3	65	18.3	68	n.			2		2			0	0			hazy.
U. S. S. Colorado, New York, N. Y.	30.16	766.1	54	12.2	49	nw.	2	0.9			10		calm	0	0			clear.
U. S. S. Franklin, Norfolk, Va.	30.18	766.6	57	13.9	94	nw.	3	1.3			0			0	0			clear.
U. S. S. Jamestown, N. 28° 15′, W. 79° 45′	29.98	761.5	75	23.9	75	ene.			4		5		ene.			long	ene.	fair.
U. S. S. Kearsarge, Norfolk, Va	30.20	767.1	58	14.4	88	nw.			1		0							clear.
U. S. S. Lancaster, Gravesend, Eng	29.68	753.9	62	16.7	100	calm			0		10		calm			sm'h		light rain.
U. S. S. Michigan, Lake Erie	30.03	762.7	53	11.7	?	nw.			2		10		sw.					cloudy.
U. S. S. Minnesota, New York, N. Y.	30.14	765.5	54	12.2	56	n			1		10							misty.
U. S. S. New Hampshire, Newport, R. I.	30.05	763.3	51	10.6	79	nw.			1		0					sm'h		clear.
U. S. S. Portsmouth, N. 37° 12′, W. 75° 02′	30.22	767.0	49	9.4	85	ne.			1									clear.
U. S. S. Powhattan, N. 19° 48′ W. 82° 25′	29.97	761.2	82	27.8	96	ene.			3		2					sm'h		clear.
U. S. S. Quinnebaug, Monrovia, Liberia, Africa	29.93	760.2	83	28.3	87	sw.			2		5		calm			long	sw.	fair.
U. S. S. Saratoga, N. 26° 30′, W. 60° 13′	30.06	763.5	75	23.9	90	se.			4		2		se.	light	light	sm'h	se.	fair.
U. S. S. St. Louis, League Island, Pa.	30.15	765.8	55	12.8	87	calm	0	0			2		calm					clear.
U. S. S. Swatara, Blewfield, Nicaragua†	29.90	759.4	80	26.7	91	e.			2		10		e.	0	0	sm'h		cloudy.
U. S. S. Tennessee, Fort Monroe, Va.	30.21	767.3	61	16.1	88	se.	1	0.4			0			0	0			clear.
U. S. S. Vandalia, Hampton roads, Va	30.18	766.6	59	15.0	88	nnw.			1		0							clear.
U. S. S. Wabash, Boston, Mass.	30.06	763.5	50	10.0	72	wnw.	5	2.2			2		nw.	0	0			clear.
U. S. S. Yantic, Hampton roads, Va.	30.13	765.3	50	10.0	93	nnw.			1		2							hazy.
Commewyne, N. 32° 05′, W. 52° 59′	30.13	765.3	72	22.2	80	se.			4		4							d. clouds.
St. Kilda, Demerara, British Guiana	29.97	761.2	80	26.7	84	calm			0		3							d. clouds.
S. S. British Crown, N. 47° 12′, W. 36° 02′ †	29.76	755.9	54	12.2		w.			1		2		s.	0	0	high	wsw.	fine.
S. S. British Prince, N. 39° 07′, W. 66° 15′ †	29.99	761.7	52	11.1		n.			6		9		n.	0	0	r'gh	n.	overcast.
S. S. Illinois, N 40° 16′, W. 46° 32′ *	30.10	764.5	54	12.2		sw.			1		1					mod.	nne.	clear.
S. S. Lord Gough, N. 46° 57′, W. 28° 02′	29.79	756.7	53	11.7		ese.			4		8		ese.	10 h'r	10 h'r	mod.	ese.	cloudy.
S. S. Ohio, N. 51° 16′, W. 10° 37′†	29.70	754.4	52	11.1	79	n.			6		2		nne.	0	0	mod.	nne.	clear.
S. S. Pennsylvanian, Philadelphia, Pa †	30.23	767.8	55	12.8		nne.			1		3		ne.					fine.
S. S. Circassian, Travers Light, St. Lawrence river	30.00	762.0	36	2.2	100	ne.			2		10			4 h'r	4 h'r			foggy.
S. S. Grecian, Quebec, Quebec	29.95	760.7	46	7.8	84	w.			2		10		w.	2 h'r	2 h'r			foggy.
S. S. Nova Scotian, N. 49° 58′, W. 29° 02′	29.99	761.7	52	11.1		e.			4		2		wsw.			mod.	sw.	clear.
S. S. Polynesian, N. 51° 51′, W. 31° 04′	30.09	764.3	51	10.6		e.			4		2		e.	0	0	mod.	sw.	clear.
S. S. Manitoban, N. 53° 23′, W. 16° 09′			63	17.2	94	nw.			5		5		nw.	0	0	sm'h		fair.
S. S. Scandinavian, Montreal, Canada			50	10.0														
S. S. Antillas, N. 32° 20′, W. 74° 45′			70	21.1		n.			3		2		n.			h'vy	n.	clear.
S. S. Jason, N. 41° 03′, W. 53° 44′†	30.02	762.5	48.2	9.0		ne.			4		6 k					8	ne.	gloomy.
S. S. Alvo, N. 17° 56′, W. 75° 50′	29.91	759.7	78	25.6		sw.			3		7 ks		calm	0	0			fine.
S. S. Alene, Port Limon, Costa Rica †	29.97	761.2	79	26.1		var.			2		2		ene.	0	0	sm'h		fine.
S. S. Ailsa, Arecibo, Porto Rico, W. I †	29.92	760.0	84	28.9		e.			2									fair.
S. S. Assyria, N. 39° 10′, W. 20° 47′	29.76	755.9	58	14.4		ssw.			4		10		ssw.	4 h'r	4 h'r	sm'h		overcast.
S. S. Bolivia, N. 41° 27′, W. 52° 26′ *†	30.08	764.0	57	13.9		sse.			5		mist		sse.	2 h'r	2 h'r	r'gh	e.	misty.
S. S. Dorian, N. 33° 57′, W. 51° 30′	30.15	765.8	68	20.0		ssw.			3		2		sw.	2 h'r	2 h'r	long	ne.	clear.
S. S. Devonia, N. 41° 03′, W. 64° 10′ *†	29.77	756.1	44	6.7		nnw.			6		10		n.			high	n.	cloudy.
S. S. Furnessia, Liverpool, Eng.						ne.			3		10		nne.	0	0			cloudy.
S. S. Elyria, N. 40° 40′, W. 38° 24′	29.97	761.2	54.8	12.7	93	wnw.			5		8		wnw.	rain	rain	r'gh	wnw.	squally.
S. S. Llandaff City, N. 50° 58′, W. 16° 20′†	29.85	758.2	50	10.0		nne.			6		5		ne.	shr's	shr's	mod.	ne.	fair.
S. S. Pavonia, N. 42° 01′, W. 45° 02′	30.07	763.8	56	13.3	69	nnw.			4		2		nw.	0	0	long	ne.	clear.
S. S. Scythia, N. 41° 03′, W. 65° 01′	29.80	756.9	46	7.8	100	nnw.			4		10?		nnw.	4 h'r	4 h'r	mod.	nnw.	clear?
S. S. Canada, N. 40° 53′, W. 63° 47′	29.65	753.1	44.6	7		nnw.			6	ck	0	nnw.		0	0	h'vy	nw.	covered.
S. S. Ville de Marseilles, Vera Cruz, Mexico			74	23.3		nw.			3		3		wnw.	sh'rs	sh'rs	sm'h		clear.
S. S. Abyssinia, N. 48° 09′, W. 30° 50′			59	15.0	76	ne.			4		0			0	0	sm'h		d. clouds.
S. S. Wisconsin, N. 51° 08′ W. 15° 20′	29.70	754.4	54	12.2		nne.			4		4		ne.	0	0	mod.	nne.	fair.
S. S. Bohemia, Hamburg, Germany						se.			3		6			0	0			fair.
S. S. Gellert, New York, N. Y.	30.14	765.5	54	12.2	80	nne.			1		1			0	0			clear.
S. S. Rugia, New York, N. Y	30.15	765.8																
S. S. Silesia, N. 44° 12′, W. 41° 00′	29197	761.2	49	9.4		wnw.			7		7			0	0	7	nw.	cloudy.
S. S. Westphalia, N. 40° 46′ W. 67° 15′			41	5.0	91	var.			4-7		10		w.	8 h'r	8 h'r	mod	ne.	misty.
S. S. City of Paris, N. 41° 20′, W. 56° 33′*	29.39	746.5				s.			7		10		s.	0	0	h'vy	s.	overcast.
S. S. Colorado, N. 31° 13′, W. 78° 56′†	30.10	764.5	70	21.1		ne.			4		3		ne.	light	light	high	ne.	clear.
S. S. Rio Grande, N. 25° 08′, W. 84° 43′ *†	30.04	763.0	80	26.7		ne.			1		1		n.	0	0			clear.
S. S. Chalmette, N. 34° 06′ W. 76° 50′†	30.23	767.8	63	17.2		nne.			4		3		n.	0	0	sm'h	nne.	clear.
S. S. New York, N. 24° 45′, W. 80° 55′ *†	30.08	764.0	78	25.6		ese.			3		4		se.			sm'h		fair.
S. S. Lone Star, N. 27° 45′, W. 87° 23′†	30.09	764.3	75	23.9		n.			2		0			0	0	sm'h		clear.
S. S. Alleghany, Boston Bay, Mass †	30.15	765.8	42	5.6		nw.			2		0			0	0	long	e.	clear.
S. S. Archimede, New York Bay, N. Y †	30.13	765.3	58	14.4	64	nw.			1		5		nw.	0	0			hazy.
S. S. City of Washington, N. 36° 10′, W. 79° 48′ †	30.23	767.8	76	24.4		ne.			2		5		ne.	0	0	mod.	n	fair.
S. S. Denmark, N. 40° 38′, W. 63° 50′†	29.71	754.6	49	9.4		nnw.			7		10		nw.	6 h'r	6 h'r	r'gh	nnw.	hazy.
S. S. Egypt, N. 40° 32′. W 63° 19′*†	29.77	756.1	46	7.8		n.			5		10		n.	0	0	mod.	n.	cloudy.
S. S. England, New York, N. Y						nw.			4		0							
S. S. Helvetia, N. 47° 28′, W. 35° 43′	29.85	758.2	60	15.6	88	calm			0		2		w.	4 h'r	4 h'r	h'vy	w.	clear
S. S. Holland, N. 40° 40′, W. 58° 26′	29.44	747.8	62	16.7		sw.			7		10					high	sw.	heavy rain.
S. S. America, N. 49° 11′, W. 12° 15′ *	29.56	750.8				ne.			0		4		ne.	2 h'r	2 h'r	high	ne.	drizzling.
S. S. Donau, N. 43° 41′, W. 43° 41′	30.18	766.6				nw.			5		5		nw.	3 h'r	3 h'r	r'gh	nw.	fair.
S. S. Elbe, N. 44° 54′, W. 35° 31′	29.87	758.7	54	12.2	76	wnw.			5-6		6		wnw.	4 h'r	4 h'r	r'gh	w.	squally.
S. S. Hohenstaufen, N. 40° 16′, W. 66° 09′	29.59	751.6				wsw.			5		10		var.			r'gh	w.	raining.
S. S. Main, N. 40° 28′, W. 72° 57′	30.07	763.8	48	8.9		wnw.			2		4		w.	5 h'r	5 h'r	sm'h	e.	fair.
S. S. Neckar, N. 51° 17′, E. 1° 33′	29.74	755.4	53.0	11.7	83	sw.			3		6		s.	light	light	sm'h	sw.	fair.
S. S. Oder, N. 48° 44′, W. 14° 55′	29.66	753.4	52.7	11.5		n.			0		8		nne.	½ h'r	½ h'r	cross	nne.	cloudy.
S. S. Ohio, N. 40° 10′, W. 59° 18′	29.59	751.6				sw.			5		10		w.	6 h'r	6 h'r	cross	var.	rainy.
S. S. Salier, N. 40° 40′ W. 63° 08′*†	29.86	758.4	52	11.1		nw.			6-7		10		nw.	1 h'r	1 h'r	high	nw.	misty.
S. S. Weser, N. 46° 20′, W. 32° 50′	29.85	758.2				calm			0		2		nw.	5 h'r	5 h'r	sm'h	nw.	clear.
S. S. Orinoco, Bermuda Islands, Atlantic Ocean*†	29.90	759.4	74	23.3		nw.			2		5		n.	5 h'r	5 h'r		ssw.	fair.
S. S. Muriel, N. 12° 40′ W. 59° 45′	29.98	761.5	82	27.8		ene.			3		0			light	light	sm'h		clear.
S. S. City of Augusta, N. 36° 09′, W. 75° 14′ †	30.17	766.3				n.			2		3		n.	0	0	sm'h		fair.
S. S. Belgenland, N. 47° 55′, W. 22° 40′†	29.87	758.7	53	11.7	93	ne.			4		0		ne.	0	0	mod.	ne.	fair.
S. S. Nederland, N. 40° 40′, W. 46° 03′			50	10.0	79	nnw.			2		0			1 h'r	1 h'r	long	nnw.	clear.
S. S. Rhynland, N. 49° 35′, W. 10° 12′	29.54	750.3	49	9.4	85	ne.			7		10		ene.	12 h'r	12 h'r	long	ne.	overcast.
S. S. Pennland, Antwerp, Belgium	29.89	759.2	69	20.6	80	s.			2		3		s.	0	0			clear.
S. S. Waesland, Jersey City, N. J.	30.14	765.5	60	15.6		s.			4		9		nw.	0	0			cloudy.
S. S. Zeeland, N. 47° 55′, W. 30° 10′*†	29.73	755.1	86	30.0		se.			6		10		se.	2 h'r	2 h'r	high	se.	overcast.
S. S. P. Caland, Rotterdam, Holland	29.73	755.1	66.9	19.4	65	se.			3		5		se.					fair.
S. S. Leerdam, N. 45° 18′ W. 44° 30′	29.97	761.2	45	7.2	92	wnw.			6		8		nw.			long	nw.	cloudy.
S. S. Rotterdam, N. 49° 46′, W. 8° 40′	29.47	748.5	54	12.2	95	nne.			6		9		nne.	12 h'r	12 h'r	6	n.	threatening.
S. S. W. A. Scholten, New York, N. Y.	30.07	763.8	60.2	15.7	60	w.			3		6		wsw.	0	0			fair
S. S. Caracas, Curacao, W. I†	29.93	760.2	82	27.8	87	e.			3		8		e.	0	0	sm'h		cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
S. S. Mendoza, S. 13° 44′, W. 33° 34′†	30.25	768.3				e.			6				e.	0	0	sm'h	e.	clear.
S. Paramita, S. 49° 18′, W 48° 53′†	29.36	745.7	51	10 6		ne.			0–6		6		ene.	6 h'r	6 h'r	hv'y	var.	light fog.
S. Storm King, S. 43° 03′, W. 56° 13′ *†	29.88	758.9				w.			7		10		w.	0	0	r'gh	n.	overcast
Inchkeith, S. 15° 50′, W. 5° 51′	30.10	764.5	72.2	22.3	74	ese.			5		4							d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 30° 27′, E. 121° 52′	29.92	760.0	60	15.6	88	ese.			6		10	ese.				5	se.	raining.
H. M. S. Champion, N. 9° 10′, E. 102° 00′	29.79	756.7	85	29.4	92	ne.			2		5					1	e.	d. clouds.
H. M. S. Sappho, N. 8° 56′, W. 79° 31′			80	26.7	96	nw.			3		5	nw.						d. clouds.
H. M. S. Flying Fish, N. 36° 38′, E. 125° 31′	30.11	764.8	51	10.6	93	se.			2		3					1	se.	misty.
H. M. S. Swiftsure, Esquimalt, V. I	29.87	758.7	49	9.4	93	calm			0		0							blue sky
H. M. S. Zephyr, N. 37° 33′ E. 121° 25′	29.91	759.7	60	15.6	88	s.			2		3	sw.						d. clouds.
H. P. M. S. Tamega, Macao, China	29.88	758.9	80.6	27.0	88	s.			5		8			18 h'r	18 h'r			cloudy.
U. S. Naval Hospital, Yokohama, Japan	30.06	763.5	51	10.6	49	nw.			2		0			sli't	sli't			clear.
U. S. S. Adams, Victoria, B. C.†	29.79	756.7	48	8.9	92	ne.			1		0					sm'h		clear.
U. S. S. Monocacy, Nagasaki, Japan	30.16	766.1	62	16.7	77	ne.			1		0							clear.
U. S. S. Palos, Hong Kong, China	29.77	756.1	77	25.0	95	ssw.			2		10		s.					cloudy.
U. S. S. Richmond, Hong Kong, China	29.77	756.1	78	25.6	100	sse.			1		10		se.	11.	279.			cloudy.
S. S. Mexico, N. 35° 42′, W. 121° 29†	29.90	759.4	55	12.8	81	w.			3		3		w.			mod.	w.	clear.
S. S. Coptic, N. 39° 12′, W. 129° 26′	30.03	762.7	49.5	9.7	89	nw.			4		1		nw.	rain	rain	mod	nw.	clear.
S. S. Oceanic, N. 41° 06′, W. 176° 03′ *	29.71	754.6	56	13.3	94	w			5		9		sw.			3	var.	cloudy.
S. S. City of Chester, San Francisco, Cal †	29.91	759.7	52	11.1	79	s.			2		10			h'vy	h'vy	light	se.	overcast.
S. S. Willamette, N. 43° 31′, W. 124° 40′*†	29.90	759.4	48	8.9	85	n.			2		8		n.	0.06	1.5	sm'h		rainy.
S. S. Ancon, N. 34° 20′, W. 119° 49′†	29.94	760.5	51	10.6	86	e.			2		10		sw.			sm'h		overcast.
S. S. Dakota, N. 47° 50′, W. 124° 50′†	29.84	757.9	50	10.0	86	nw.			2		8		n.	0	0	light	nw.	hazy.
S. S. G. W. Elder, N. 42° 05′, W. 124° 36′†	29.89	759 2	49	9.4	71	sw.			2		10					sm'h		drizzling.
S. S. Queen of the Pacific, N. 42° 10′, W. 124° 36′†	29.91	759.7				nw.			4		5			2 h'r	2 h'r	long	nw.	fair.
S. S. State of California, N. 42° 20′, W. 124° 30′†	29.90	759.4	50	10.0	86	wnw.			3		8		w.			short	w.	foggy.
S. S. Australia, N. 37° 01′, W. 124° 51′	30.02	762.5	56	13.3	87	nnw.			3		6		nw.	0	0	mod.	nw.	fair.
S. S. City of New York, N. 12° 19′, W. 162° 03′†	29.99	761.7	80	26.7	82	ne.			5		10		ne.	0	0	mod.	ne.	cloudy.
S. S. City of Pekin, N. 26° 03′, E. 121° 35′			73	22.8	90	sse.			6		10		s.	0	0	mod.	s.	overcast.
S. E. B. Sutton, N. 14° 00′, W. 117° 30†	29.99	761.7	77	25.0	91	ne.			3		9		ne.	0	0	mod.	nne.	cloudy.
S. S. Granada, Mazatlan, Mexico †	29.93	760.2	73	22.8	90	calm			0		3		nw.	0	0	small		clear.
S. S. Gordon Castle, N. 30° 50′, E. 122° 47′*	30.01	762.2	58.0	14.4	94	sse.			6		10		sse.			r'gh	sse.	raining.
S. Armenia, N. 15° 50′, W 121° 15′*	29.90	759.4	74	23.3	81	nne.			4		9		nne.	0	0	sm'h	nnw.	cloudy.
S. S. Benledi, N. 20° 30′, E. 113° —′ *	29.80	756.9	82	27.8	91	s.			3–4		4		se.	0	0	r'gh	ne.	hazy.
S. Grecian, S. 0° 54′, E. 129° 04′†	29.90	759.4	84	28.9	87	calm			0		8		var.	1 h'r	1 h'r	sm'h		cloudy.
S. Titan, N. 13° 09′, W. 119° 15′*†	30.00	762.0	81	27.2	91	nne.			5		3		ne.	0	0	sm'h	ne.	clear.
Bk. Xenia, N. 11° 57′, E. 111° 17′			85	29.4		ese.			4		2		ese.	2 h'r	2 h'r	mod	ne.	clear
U. S. S. Ranger, N. 13° 12, W. 87° 51′	29.92	760.0	79	26.1	91	ene.			2		10			0	0	sm'h		clearing.
District No. 4—South Pacific.																		
H. M. S. Diamond, S. 33° 14′, E. 156° 06′			64	17.8	94	nnw.			5		6	sw.				5	se.	showery.
H. M. S. Espiegle, S. 24° 25′, E. 173° 55′	30.01	762.2	71	21.7	71	se.			5		1					2	sse.	blue sky.
H. M. S. Kingfisher, S. 19° 01′, W. 153° 31′	29.99	761.7	77	25.0		ne.			3		4					3	ne.	d. clouds
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.98	761.5	60	15.6		wnw.			2							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.79	756.7	71	21.7	90	nw.			1		8							d. clouds
U. S. S. Hartford, S. 14° 06′, W. 149° 50′*	29.89	759.2	85	29.4	64	ene.			4		2			0	0	sm'h		clear.
U. S. S. Iroquois, Valparaiso, Chili	30.08	764.0	59	15.0	82	sw.			2		8					sm'h		cloudy.
U. S. S. Lackawanna, S. 35° 03′, W. 140° 40′*	30.17	766.3	60	15.6	60	e.			5–6		8		ne.			mod.	ene.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.11	764.8	65	18.3	89	s.			2		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.95	760.7	66	18.9	89	s.			7		10		s.	0	0			cloudy.
U. S. S. Wachusetts, S. 9° 19′, W. 166° 56	29.81	757.2	82	27.8	87	ene.			3		2		e.			sm'h		clear.
Bk. May Hulse, S. 53° 28′, W. 78° 17′	29.58	751.3	44	6.7	79	w.			6		7							showery
S. S. City of Sydney, Sydney, N. S. W *†	30.03	762.7	61	16.1	66	s.			2		0			0	0			clear
S. S. Zealandia, Sydney, N. S. W	30.11	764.8	67	19.4	95	calm			0		0							clear.
S. David Crocket, S. 48° 51′, W. 85° 06′*	29.91	759.7	45.5	7.5	88	w.			7		6		w.	8 h'r	8 h'r	h'vy	sw.	raining.
H. M. S. Lark, S. 21° 38′, E. 156° 20′	30.09	764.3	74.3	23.5	95	e.			5		4					4	e.	d clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.68	753.9	85	29.4		e.			2		5	ese.						d. clouds
H. M. S. Euryalus, Colombo, Ceylon	29.73	755.1	82	27.8	87	sw.			2–4		8	sw.						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.91	759.7	83	28.3	87	ese.			1		4	sse.				2	sse.	d. clouds.
H. M. S. Tourmaline, N. 18° 45′, E. 57° 25′	29.80	756.9				ssw.			3		0					1	s.	blue sky.
H. M. S. Woodlark, Linjah, Persia	29.71	754.6	81	27.2	91	sw.			6		1							blue sky.
U. S. S. Juniata, Linjah, Persia	29.74	755.4	83	28.3	96	sw.			5		2		sw.	0	0	sm'h		clear.
Bk. Alpheus Marshall, S. 31° 54′, E. 33° 38′*†	29.88	758.9				wsw.			1		2		calm	2 h'r	2 h'r	long	ese.	clear.
S. Annie M. Law, S. 17° 10′ E. 84° 46′*†	29.94	760.5	78	25.6		s.			2		1		sse.	0	0	long	ssw.	clear.
S. S. Burswell, N. 14° 05′, E. 53° 33′ *†	29.88	758.9	92	33.3		calm			0		2		calm	0	0	sm'h		clear.
Bk. Bore, S. 7° 20′, E. 116° 46′*†	30.24	768.1	87	30.6		e.			1		1		e.			sm'h	ssw.	clear.
Bk. Ceylon, S. 26° 21′, E. 52° 21′ * †	30.02	762.5	78	25.6	91	n.			3		10		nnw.	1 h'r	1 h'r	long	ne.	cloudy.
S. Dynomine, S. 33° 30′ E. 32° 30′	29.99	761.7	70	21.1	80	ssw.			3		5			0	0	mod.	var.	fair.
S. S. Malabar, N. 11° 57′, E. 51° 16′						e.			4		0			0	0	sm'h		clear.
Bk. Pilgrim, S. 6° 56′, E. 105° 00′*†	29.90	759.4				calm			0		7		wsw.	3 h'r	3 h'r	mod.	se.	fair.
S. S. Randorshire, N. 13° 16′ E. 54° 32′*†	29.83	757.7				se.			2		6		s.	0	0	light	s.	fair.
S. St. David, S. 38° 30′ E. 84° 56′*†	29.47	748.5	60.3	15.7	94	ssw.			8		10		ssw.	12 h'r	12 h'r	hv'y	sw.	rain & hail.
Bk. Chas. Stewart, S. 44° 40′, E. 137° 20′ †	29.96	761.0	52	11.1		s.			7		10		sw.			r'gh	sw.	foggy.
S. S. Foscolio, N. 6° 08′, E. 79° 42′ †	29.78	756.4				sw.			3		10		sw.	11 h'r	11 h'r	r'gh	var.	threatening

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 8, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.87	758.7	69.1	20.6	58	s.			2		0			0	0	clear	Malaterre.
Algiers			29.79	756.7	69.8	21.0	44	w.			5		4			0.039	1.0	cloudy	Thève.
La Calle			29.82	757.4	66.2	19.0	88	nw.			5		3			0	0	pretty fair	Fonfrède.
Tunis			29.85	758.1															Jacques.
Saida			29.90	759.5															Pérès.
Tebessa			29.89	759.2	62.2	16.8	64	nw.			3		3			0	0	pretty fair	St. Martin.
Geriville					68.0	20.0	19	wnw.			6		0			0.079	2.0	clear	Forfert.
Laghouat			29.90	759.5	71.6	22.0	59	ese.			2		0			0	0	clear	Abraham.
Biskra			29.85	758.3	83.1	28.4	35	nw.			3		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.29	769.4	55.0	12.8	87	s.	6	2.7			10 n			0.213	5.4	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.12	765.0	30.21	767.3	56.4	13.6	68	s.	18	8.0			10			0.07	1.8	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.28	743.8	29.81	757.2	70.5	21.4	52	s.			2		7			0.067	1.7	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.10	739.2	29.85	758.2	65.1	18.4	54	e.	9.8	4.4			0			0	0		Dr. Wierzbiski
Eperies	29.04	737.3	29.88	758.9	68.7	20.4	51	s.			4	3 cs				0	0		Julius Mikolik.
Gratz	28.58	725.9	29.78	756.3	72.0	22.2	53	sw.			3		6			0	0		Andreas Rospini.
Hermannstadt	28.50	724.0	29.88	759.0	69.4	20.8	48	ssw.			1		4			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.34	719.7	29.62	752.3	68.5	20.3	51	ne.			1	5 c	k			0	0	fair	The Staff.
Lemberg	28.98	736.1	29.95	760.7	60.1	15.6	54	se.			2		0			0	0		Dr. T. Stanecki.
Neu Schmecks	26.54	674.2	29.80	756.8	63.7	17.6	39	calm			0		2			0	0		Dr. V. von Szontagh.
Pola	29.69	754.2	29.76	755.8	57.9	14.4	90	se.			5		10			0	0		I. R.Hydrographic Office.
Szathmar	29.44	747.8	29.90	759.4	69.1	20.6		sw.			2		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.58	751.3	29.85	758.2	68.4	20.2	47	s.			1		5			0	0		Karl Stancel.
Trieste	29.75	755 6	29.85	758.1	66.6	19.2	56	s.			1		10			0.756	19.2		Royal Academy.
Vienna	29.04	737.6	29.73	755 2	69.3	20.7	51	se.			4		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.72	754.9	29.82	757.4	40.4	4.7	60	nne.	25	11.2			7			0	0	squally	W. Boswell.
Armagh, Observatory	29.50	749.3	29.73	755.1	38.0	3.3	90	nne.	14	6.3			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.56	750.8	47.0	8.3	77	ene.	26	11.6			7					misty	John Hartnup.
Bolton, Sharples	29.06	738.1	29.59	751.6	41.7	5.4	89	ene.	12	5.4			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.21	741.9	29.61	752.1	43.6	6.4	84	ne.			2		10			0.05	1.3	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	29.94	760.5	29.97	761.2	80.0	30.0	68	se.			1		2					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.49	749.0	29.59	751.6	50.0	10.0	89	e.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	29.45	748.0	29.58	751.3	46.1	7.8	98	calm			0		10					raining	Corpl. G. A. Pickles.
Falmouth, Observatory	29.36	745.7	29.59	751.6	52.0	11.1	66	sse.			1		9					d. clouds	The Staff.
Fort Napier, Natal	27.67	702.8	29.89	759.2	70.0	21.1	53	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.54	750.3	29.77	756.1	80.0	26.7	87	e.			1		5					raining	Sergt. C. E. Keane.
Galway, Queen's College	29.65	753.1	29.69	754.1	41	5.0	82	e.			5		9			0.08	2.0	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	29.85	758.2	29.90	759.4	63.2	17.3	91	w.			6		7					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.55	750.6	29.76	755.9	44.1	6.7	53	ene.			6		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.40	746.7	29.57	751.1	49.5	9.7	88	nne.			1		10					thunder	The Staff.
Guernsey	29.29	744.0	29.59	751.6	47.8	8.8	92	ene.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.55	750.6	29.59	751.6	45.7	7.6	90	nnw.	5	2.2			10					drizzling	The Staff.
Leicester, Museum	29.34	745.2	29.59	751.6	45.0	7.2	90	ne.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.70	754.4	29.77	756.1	60.0	15.6	81	sw.					4					d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.06	763.5	30.10	764.5	77.0	25.0	51	ne.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.05	737.9	29.58	751.3	48.0	8.9	80	ene.			3		10					gloomy	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.36	745.7	29.58	751.3	47.4	8.6	81	calm			0		10					drizzling	The Staff.
Plymouth	29.50	749.3	29.57	751.1	52.0	11.1	83	se.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.75	755.6	29.85	758.2	39.8	4.3	57						1					showery	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.92	760.0	63.6	17.6	78	s.			1		7					d. clouds	W. H. Lyne.
Sheffield	29.33	745.0	29.61	752.1	46.1	7.8	90	ne.			1		10			0.08	2.0	overcast	W. F. Cooper.
Silloth Rectory	29.60	751.8	29.63	752.6	43.8	6.6	74	ne.			5		10			0.015	0.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.62	752.3	42.0	5.6	83	ne.	11	4.9			10					overcast	W. C. Carlisle.
Truro, Royal Institution	29.54	750.3	29.60	751.8	55	12.8	68	nw.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.70	754.4	29.72	754.9	42.4	5.8	83	n.	28	12.5			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.40	746.7	29.79	756.7	62.3	16.8	78	e.	18.6	8.3		10°c		w.		0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.74	755.4	29.78	756.4	43	6.1	88	s.	7	3.1			10 n		sw.	0.015	0.4	light rain	H. J. Cundall, C. E
Chatham, N. B*	29.61	752.1	29.67	753.6	44	6.7	93	sw.	6	2.7			10 n		sw.	0.08	2.0	heavy rain.	G. A. Blair.
Cornwall, Ontario	29.68	753.9	29.87	758.7	43.1	6.2	71	nw.			1		10 s			0.039	1.0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.52	749.8	29.58	751.3	37.0	2.8		calm			0		10			0.140	3.6	misty	H. A. Johnson.
Father Point, Quebec*	29.64	752.8	29.66	753.4	39	3.9	76	nw.	15	6.7		2 k	2 s	calm	calm	0.13	3.3	fair	J. McWilliams.
Fort Garry, Manitoba*	29.22	742.2	30.09	764.3	27	2.8	70	se.	5	2.2		0	0			0	0	clear	James Stewart.
Fredericton, N. B	29.64	752.8	29.71	754.6	46.6	8.1	88	s.	2	0.9			10 n			0.075	1.9	light rain	Prof. Harrison, L. L. D.
Granton, Ontario	28.88	733.5	30.01	762.2	39.0	3.9	100	nw.	2	0.9			10			0	0	overcast	Jas. Grant.
Halifax, N. S*	29.80	756.9	29.93	760.2	42	5.6	82	s.	8	3.6			10 k		w.	0	0	cloudy	A. Allison.
Hamilton, Ontario	29.54	750.3	29.94	760.5	44.2	6.8	92	sw.			1	4 ck	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.59	751.6	29.93	760.2	44	6.7	80	n.	5	2.2		2 ck	8 k	w.	ne.	0.02	0.5	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.81	757.2	29.85	758.2	42.6	5.9	76	sw.			3	8 k	0	sw.		1.000	25.4	rain & snow	C. H. McLeod, C. E.
Montreal, Quebec*	29.65	753.1	29.86	758.4	43	6.1	72	nw.	8	3.6			10 s		nw.	0.14	3.6	cloudy	A. McGill, M. A.
Ottawa, Ontario	29.66	753.4	29.91	759.7	41.0	5.0	69	nw.			3					0.19	4.8	blue sky	Rev. R. Mosley.
Parry Sound, Ontario*	29.26	743.2	29.96	761.0	40	4.4	92	s.	2	0.9		0	0			0.14	3.6	clear	J. Dixon, B. A.
Peterboro, Ontario	29.24	742.7	29.97	761.2	48.2	9.0	81	w.			1	6 k	0			0	0	fair	H Morgan.
Port Dover, Ontario	29.29	744.0	30.00	762.0	46	7.8	92	nw.	8	3.6		10 c	0	nw.		0	0	fair	M. Payne.
Port Stanley, Ontario	29.33	745.0	29.99	761.7	42	5.6	89	w.	4	1.8		2 c	2 ks	nw.	nw.	0.01	0.3	fair	Capt. Ashe, R. N
Quebec, Quebec*	29.39	746.5	29.75	755.6	45	7.2	68	ne.	8	3.6		5 k	0	nw.		0.18	4.6	fair	W. H. McIntyre.
Rockliffe, Ontario*	29.45	748.0	29.92	760.0	30	2.2	65	nw.	2	0.9		0	0			0.29	7.4	clear	
St. Andrews, N .B	29.67	753.6	29.72	754.9	44	6.7	91	sw.	4	1.8			10 n			0.09	2.3	cloudy	
St. John, N. B	29.58	751.3	29.75	755.6	40.0	4.4	100	sw.	13	5.8			10 n					raining	G. Murdock, C. E.
Saint John's, N. F	29.58	751.3	29.84	757.9	36	2.2	100	w.			2	0	0			1.24	31.5	blue sky	J. Higgins.
St. Pierre, N. F			29.84	757.9	38.5	3.6		nw.			6					2.56	65.0		The Commandant
Saugeen, Ontario*	29.26	743.2	29.99	761.7	39	3.9	89	s.	12	5.4			10 ks			0.10	2.5	cloudy	
Stratford, Ontario	28.70	729.0	29.99	761.7	41.2	5.1	76	calm	0	0		2 cs.	3 s			0	0	blue sky	C. J. Macgregor, M A
Sydney, C. B*	29.82	757.4	29.89	759.2	41	5.0	76	sw.	9	4.0		10 k	0	w.		0.15	3.8	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.60	751.8	29.99	761.7	48	8.9	83	nw.	4	1.8		8 cs	0	w.		0.07	1.8	fair	Magnetic Observatory.
Windsor, N. S	29.74	755.4	29.84	757.9	45.0	7.2	76	s.	11	4.9			10 ks			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.92	734.6	30.00	762.0	45.4	7.4	82	w.	3	1.3		8 cs	0	w.		0	0	hazy	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.80	756.9	29.87	758.7	42	5.6	89	s.	6	2.7			10 s		sw.	0.01	0.3	cloudy	Lt. F. E. Wilmot, R. N.
London, Ontario	29.07	738.4	29.99	761.7	42.2	5.7	79	calm			0	9 cs	0	nw.		0.08	2.0	d. clouds	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.93	760.2	29.96	761.0	67.0	19.4	88	e.	3.2	1.4		3 cs	0			0	0	fine	John Duthie.
Springbok Fontein	27.89	708.4			68	20.0	34	ne.											J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.14	638.5																	A. Guelny.
Tchang-kia-tchouang	29.84	757.8	29.95	760.6	67.1	19.5	62	e.			2		8			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.74	755.4	29.76	756.0	69.4	20.8	92	calm	0	0			8			0.370	9.4	covered	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.76	755.8	29.80	757.0	57.2	14.0	47	s.	22	10			0						Oversergent Fischer.
Fanoe	29.61	752.1	29.63	752.6	63.0	17.2	59	wsw.			2		5						Overloerer Lauridsen.
Godthaab, Greenland	30.22	767.6	30.26	768.7	36.0	2.2	87	calm			0		8						S. Kleinschmidt.
Jacobshavn, Greenland	30.27	768.9	30.32	770.1	37.4	3.0		e.			2		1						
Stykkisholm, Iceland	30.42	772.7	30.47	773.8	26.6	— 3.0	89	ne.			7		0						A. O. Thorlacius.
Thorshavn	29.89	759.3	29.92	759.9	34.9	1.6	71	n.	16	7			7					snowing	Overloerer Bergh.
Vestervig	29.56	750.9	29.65	753.2	59.5	15.3	88	sse.			4		10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.79	756.6			75.9	24.4		ne.	5.4	2.4		0	0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.04	737.7	29.69	754.0	59.4	15.2	98	s.			1		10 n		w.	0.228	5.8	light rain	M. Labroue, Director.
Alençon, Normal School	29.05	737.9	29.60	751.9	58.3	14.6	76	ne.			1		10		sw.	0	0	covered	M. Nicot, Director.
Arras, Engineer School	29.26	743.3	29.51	749.6	60.4	15.8	84	se.			2	k	n		s.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.65	753.0	29.72	755.0	73.4	23	44	sw.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.08	738.5	29.61	752.2	64.4	18.0	49	s.			1	o	8 kn		sw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.28	743.8	29.54	750.2	64.9	18.3	57	ssw.			2		8		sw.	0.087	2.2	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.73	729.7	29.60	751.8	69.8	21	84	s.			2		cn		sw.	0.087	2.2		M. Gobin, Director.
Bordeaux, Observatory	29.38	746.2	29.63	752.7	57.7	14.3	81	sw.			1		10		w.	0.264	6.7	covered	M. Rayet, Director.
Bourges, Normal School	29.04	737.7	29.58	751.4	61.7	16.5	65	w.			1		kn		w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.39	746.6	29.64	752.8	54.0	12.2	69	s.			2		9		s.	0.020	0.5		M. de Kermarée, Dir.
Caen, Normal School	29.47	748.4	29.54	750.3	54.3	12.4	93	w.			1		5		w.	0.138	3.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.25	743.0	29.56	750.9	64.9	18.3	52	s.			2		5		e.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.06	738.2	29.56	750.7	65.5	18.6	72	sse.			3		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.26	717.9	29.58	751.2	63.9	17.7	56	se.			1		10			0.008	0.2	covered	M. Alluard, Director.
Cluny, Normal School	28.81	731.7	29.63	752.7	69.1	20.6	36	s.			1		6		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.71	729.1	29.58	751.2	63.7	17.6	59	sw.			1		kn	sw.	sw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.25	692.1	29.72	754.8	59.9	15.5	42	ne.			2	7 ck	0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.63	727.3	29.74	755.0	68.9	20.5	45	se.			3		3		se.	0	0		M. Kina, Director.
Grenoble, Normal School	28.91	734.3	29.66	753.3	68.4	20.2	46	nw.			1	ck	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.02	711.6	29.58	751.4	60.8	16	65	sw.			3		n		e.	0.150	3.8		M. Delorme, Dir.
Lamballe, Normal School	29.38	746.2	29.65	753.1	51.8	11	90	se.			2		5		w.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.06	738.0	29.61	752.2	59.0	15.0	76	wnw.			3		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.48	748.8	29.58	751.4	59.0	15.0	52	s.			1		8	calm	calm	0.098	2.5	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.61	726.6	29.63	752.5	66.0	18.9	35	s.			4	c	2 k			0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.28	743.7	29.58	751.4	57.6	14.2	76	wsw.			1		8		wsw.	0.016	0.4	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.46	748.2	29.72	754.9	68.4	20.2	60	sse			1.2		7		sw.	0	0		M. Stephan, Director.
Montlouis	24.52	623.0	29.37	746.0	51.8	11.0	45	sw.	20.6	9.2			5	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.59	751.5	29.71	754.6	62.6	17	81	se.			4		10		se.	0	0	covered	M. Galzin, Director.
Nancy, Normal School	28.85	732.8	29.60	751.9	67.3	19.6	43	s.			2		ckn	sw.	sw.	0	0		M. Hasse, Director.
Nantes, Observatory	29.45	748.1	29.61	752.2	56.7	13.7	65	ssw.			0–1	o	9 kn; n		ssw.	0.323	8.2		M. Larocque, Director.
Perpignan, Observatory	29.57	751.0	29.68	753.8	62.8	17.1	68	e.	9.4	4.2			10		e.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.90	530.8			33.1	0.6		sw.			1		5		sw.	0.259	1.5	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.67	728.1	29.70	754.3	66.6	19.2	46	se.			3		1 k	se.	se.	0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.84	630.8			44.4	6.9	77	sw.			3		8		ssw.	0.039	1.0	stormy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.58	751.4	29.61	752.2	57.9	14.4	74	sw.			1		10			0.35	9.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.40	746.8	29.61	752.2	57.7	14.3	67	ne.			1		5		ne.	0.083	2.1	cloudy	M. Brotier, Director.
Rodez, Normal School	27.53	699.3	29.64	752.8	58.5	14.7	68	se.			4		1		w.	0.059	1.5	clear	M. Seger, Director.
Rouen, Normal School	29.49	749.1	29.54	750.3	60.8	16	75	sw.			1		8	s.		0.150	3.8	very cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.41	747.0	29.58	751.1	63.3	17.4	68	sw.			2		10		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	28.94	735.1	29.65	753.2	69.1	20.6	55	se.			3		2			0	0	slightly cl'dy	M. Baillard, Director.
Tours	29.40	746.8	29.58	751.3	60.1	15.6	68	sw.			1		10	wsw.	sw.	0.063	1.6	rainy	M. de Tastes.
Versailles, Observatory	29.06	738.2	29.56	750.7	63.3	17.4	50	sw.			2					0.189	4.8		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.52	749.9	29.67	753.7	54.9	12.7	87	nw.	9.8	4.4			10 kn		sw.	0.492	12.5	raining	M. Cartier, Director.
German.																			
Anshach	28.26	717.9	29.65	753.2	67.6	19.8	43	se.			2		4	se.		0.028	0.7		Prof. Jnedt.
Bamberg	28.87	733.2	29.70	754.3	67.3	19.6	34	s.			1	o	3 k		s.	0.059	1.5		Prof. Dr. Hoh.
Berlin	29.59	751.6	29.73	755.1	70.2	21.2	33	se.			4		7			0	0		Meteorological Institute.
Breslau	29.32	744.6	29.84	758.0	67.5	19.7	33	se.			4		1	sse.		0	0		Royal University Obs'y
Carlsruhe	29.20	741.7	29.64	752.8	69.8	21.0	46	sw.			4		8	sw.		0.028	0.7		Albert Senz.
Cassel	28.92	734.6	29.63	752.7	68.4	20.2	43	s.			4		6	s.		0.012	0.3		Dr. H. Möhl.
Frankfort-on-the-Main			29.60	751.9	70.9	21.6	42	s.			2		5			0	0		Physical Society.
Friedrichshafen	28.27	718.0	29.64	752.9	63.3	17.4	96	sw.			3		8	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.58	751.4	29.67	753.7	65.8	18.8	37	se.			4		7			0	0		E. Preller.
Kiel	29.65	753.2	29.67	753.6	62.2	16.8	37	ese.			2		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.26	743.2	29.66	753.3	75.9	24.4	23	se			2		8			0	0		H. Leppig, Asst.
Magdeburg	29.47	748.6	29.65	753.1	72.9	22.7	44	ese.			2		4	s.		0	0		Dr. Assmann.
Memel	29.92	759.9	29.97	761.1	49.3	9.6	71	ssw.			3	3 c	0						Issermann.
Munich	27.85	708.2	29.72	755.0	67.1	19.5	42	calm			0		6	se.		0.051	1.3		Central Station.
Neufahrwasser	29.94	760.5	29.96	760.9	57.9	14.4	44	e.			2		4			0	0		A. Lothes.
Neustadt, Palatinate	29.11	739.5	29.63	752.7	70.7	21.5	46	s.			2		7	s.		0.079	2.0		Dicknether.
Stuttgart	28.71	729.1	29.57	751.1	68.9	20.5	41	n.			1		6	w.		0.740	18.8	thnd'r storm	Prof. Dr. Schoder.
Wustrow	29.76	755.9	29.78	756.5	65.1	18.4	49	se.			3	o	8 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.58	751.4	29.96	760.9	73.2	22.9		sw.			2.0		1			0	0	smoky	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.65	753.1	29.70	754.4	85.0	29.4	79	wsw.	28.0	12.5			0			0	0	blue sky	
Deesa	29.19	741.4	29.64	752.8	103.6	39.8	13	wsw.	15.0	6.7			0			0	0	blue sky	
Bombay	29.74	755.5	29.78	756.4	85.3	29.6	78	nw.	21.0	9.4			0			0	0	blue sky	
Poona, Yarrowda	27.90	708.8	29.69	754.1	97.2	36.2	31	nw.	33.0	14.8			2		nw.	0	0	d. clouds	
Trichinopoly	29.47	748.6	29.75	755.7	85.8	29.9	70	nw.	2.0	0.9			10	ne.	ne.	0	0	overcast	
Belgaum	27.21	691.0	29.70	754.4	83.2	28.4	64	ne.	8.0	3.6			1		w.	0.02	0.5	d. clouds	
Lahore	28.78	731.0	29.48	748.7	106.3	41.3	12	calm	0	0			0			0	0	blue sky	
Roorkee	28.62	726.9	29.46	748.4	103.9	39.9	9	w.	10.0	4.5			0			0	0		
Agra	29.00	736.6	29.53	750.0	109.1	42.8	8	nw.	6.0	2.7			2			0	0	d. clouds	
Nagpur	28.59	726.2	29.57	751.1	108.5	42.5	15	nw.	8.0	3.6			5		w.	0	0	d. clouds	
Jubbulpore	28.30	718.7	29.58	751.4	105.4	40.8	10	w.	8.0	3.6			0			0	0	blue sky	
Lucknow	29.18	741.0	29.53	750.1	103.4	39.7	24	wnw.	10.0	4.5			0			0	0	hazy	
Allahabad	29.22	742.2	29.52	749.7	106.6	41.4	10	nw.	4.0	1.8			0			0	0	blue sky	
Patna	29.35	745.4	29.52	749.8	101.5	38.6	26	ne.	5.2	2.3			0			0	0	blue sky	
Hazaribagh	27.62	701.5	29.54	750.2	98.6	37.0	10	wnw.	9.5	4.2			0			0	0	blue sky	
Cuttack	29.58	751.4	29.66	753.4	88.3	31.3	62	wnw.	8.0	3.6			6	wnw.		0	0	d. clouds	
Calcutta, Alipore	29.60	751.9	29.62	752.4	86.0	30.0	67	ssw.	18.0	8.0			0			0	0	blue sky	
Dhubri	29.51	749.6	29.63	752.6	76.6	24.8	82	e.	23.0	10.3			10		sw.	1.16	29.5	overcast	
Chittagong	29.68	754.0	29.77	756.2	83.7	28.7	80	sw.	7.7	3.4			5		s.	0	0	blue sky	
Sibsagar	29.47	748.5	29.81	757.2	72.5	22.5	94	ne.	2.0	0.9			10	w.	w.	0.75	19.0	overcast	
Joypore	28.19	716.1	29.57	751.0	103.4	39.7	29	nw.	13.6	6.1			3	nw.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.	28.22																		
Bellary		716.8			91.5	33.1	38	e.	6	2.7		4 ck	2			0	0	d. clouds	
Zanzibar			29.92	760.0	82.4	28.0	73	wsw.	7.3	3.3			9		e.	0.03	0.8	d. clouds	
ITALIAN.																			
Udine	29.49	749.0	29.89	759.2	61.0	16.1	68	sw.	2.5	1.1			10			0	0		Prof. Giovanni Clodig.
Milan	29.32	744.8	29.84	757.8	61.2	16.2	58	nw.	4.3	1.9			10	ssw.		0.059	1.5		Prof. G.V.Schiapparelli.
Padua	29.74	755.3	29.84	758.0	59.0	15.0	86	ese.	11.9	5.3			10	se.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.2	29.84	757.9	57.4	14.1	80	ne.	1.3	0.6			10	n.		0.067	1.7		Prof. F. F. Denza.
Genoa	29.65	753.1	29.84	758.0	59.9	15.5	62	s.	5.6	2.5			10	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.93	709.5	29.82	757.5	52.7	11.5	76	w.			2		10			0.012	0.3		Prof. D. C. Bruno.
Pesaro	29.80	756.9	29.85	758.1	59.7	15.4	91	se.	1.8	0.8			10			0	0		Prof. Luigi Guidi.
Florence	29.60	751.7	29.85	758.1	57.2	14.0	89	ne.			2		10	sw.		0.217	5.5		Prof. Costantino Pittei.
Leghorn	29.69	754.1	29.77	756.2	56.5	13.6	82	ene.	3.1	1.4			10	ne.		0.319	8.1		Prof. P. Monte.
Rome	29.60	751.9	29.77	756.2	63.1	17.3	69	ne.	4.3	1.9			10			0	0		Prof. P. Tacchini.
Lecce	29.67	753.5	29.91	759.8	70.7	21.5	47	sse.	15.0	6.7			5			0	0		Prof. C. de Giorgi.
Cosenza	28.97	735.8	29.84	758.0	66.9	19.4	76	sse.	1.3	0.6			9	se.		0.118	3.0		Prof. D. Conti.
Cagliari	29.54	750.3	29.73	755.2	67.6	19.8	67	nw.			2		9	nw.		0.035	0.9		Prof. A. Pacinotti.
Palermo	29.53	750.0	29.77	756.2	69.1	20.6	41	nnw.	8.1	3.6			10	sw.		0	0		Prof. G. Caccintore.
Syracuse	29.82	757.5	29.87	758.6	61.0	16.1	60	nne.	12.5	5.6			10	ne.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.30	744.2	29.82	757.3	62.6	17.0	74	s.	7.4	3.3			2	wnw.		0.051	1.3		Prof. F. Brioschi.
Stelvio	22.00	558.7			33.1	0.6	92	w.			1		10			0.394	10.0	covered	Prof. P. F. Denza.
Valdobbia	22.01	558.9			38.3	3.5	72	se.			2		10			7.087	180.0		Prof. P. F. Denza.
JAPANESE.																			
Akita	30.22	767.5	30.25	768.4	43.9	6.6	84	calm			0		10 ck		w.	0	0	cloudy	H. Hattori.
Awomori	30.17	766.3	30.21	767.3	38.5	3.6	85	s.	7.7	3.4		0	2 s			0	0	fair	K. Ogawa.
Hamamatsu	30.18	766.6	30.21	767.3	53.6	12.0	82	calm			0	0	0			0	0	clear	
Kagoshima	30.16	766.0	30.17	766.3	59.0	15.0	88	e.			2		10 n			1.056	26.8	raining	G. Miyanohasa.
Kioto	30.03	762.7	30.20	767.2	51.0	10.6	84	ne.	2.2	1.0		0	5 s			0	0	fair	M. Tojima.
Miasaka	30.17	766.3	30.20	767.0	58.7	14.8	94	sse.			2		10 n		se.	2.217	56.3	raining	K. Masusaki.
Miyako	30.13	765.2	30.24	768.0	37.5	3.1	87	w.	3.3	1.4		1 c	0			0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.87	758.7	30.08	764.0	56.7	13.7	92	e.	8.4	3.8			10 n			0.580	14.7	raining	S. Takehayashi.
Niigata	30.22	767.6	30.25	768.3	44.7	7.1	87	ene.	1.4	0.6		0	0			0	0	clear	M. Morita.
Nobiru	30.22	767.7	30.24	768.1	41.0	5.0	85	n.	3.8	1.7		0	1 ks		n.	0	0	clear	H. Midzushima.
Numazu	30.18	766.7	30.22	767.6	51.0	10.6	88	calm			0	0	0			0	0	clear	R. Kaneda.
Osaka	30.18	766.5	30.19	766.9	58.9	14.9	78	ne.	3.2	1.4		10 cs	0			0	0	cloudy	H. Omura.
Tokei Obs'y, Yeddo	30.13	765.4	30.21	767.3	55.6	13.1	68	sse.	9.2	4.1		2 cs	0			0	0	clear	The Staff.
Wakayama	30.14	765.5	30.19	766.8	53.7	12.1	70	nne.	1.5	0.7		10 ck	0			0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.76	755.9	29.95	760.7	74.6	23.7	91	e.	8.0	3.6			10 n			0.30	7.6	rainy	The Staff.
MEXICAN.																			
Guanajuato	23.63	600.2	29.85	758.2	58.1	14.5	83	sw.	inap.	inap.		1 c	0			0.063	1.6	clear	Prof. Vicente Fernandez.
Leon	24.27	616.4	29.94	760.5	58.1	14.5	82	n.	2.0	0.9		3 c	2 ck		w.	0	0	light fog	Prof. M. Leal.
Mazatlan	29.62	752.3	29.88	758.9	69.5	20.8	100	ese.	1.6	0.8		10 cs	0	sw.		0	0	misty	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Zacatecas																			J. A. Bonilla, M. E.
Sub-series.																			
Altata					69	20.6	90		6.5	2.9		0	1 s		se.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.56	750.8	29.56	750.8	58.3	14.6		e.			3					0.071	1.8		
Groningen	29.55	750.5	29.60	751.9	50.5	10.3		s.			2					0	0		
Helder	29.61	752.2	29.61	752.2	54.1	12.3		w.			1					0.126	3.2		
Hellevoetsluis	29.58	751.2	29.58	751.2	61.7	16.5	55	calm			0					0.161	4.1		
Utrecht	29.53	750 0	29.58	751.2	64.6	18.1	45	ese.			2		5			0.484	12.3	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.90	759.4			81.3	27.4	86	ne.	0	0			6			0	0		Lt.J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.69	754.2	29.76	755.8	43.2	6.2	39	nnw.	13	6			9			0.079	2.0		
Brono	29.76	755.9	29.80	756.9	44.2	6.8	60	w.			4		5			0.079	2.0		
Christiania	29.57	751.1	29.72	754.8	53.4	11.9	48	sw.	4	2			1			0	0		
Gjesvær	29.81	757.2	29.84	757.8	51.1	10.6		e.			4		6						
Lodingen	29.73	755.1	29.78	756.3	41.0	5.0	85	wsw.			4		10					raining	
PORTUGUESE.																			
Angra, Azores	29.81	757.1	29.97	761.1	58.1	14.5	78	nne.	9.4	4.2			4			0.307	7.8		Dr. J. A. Sampaio.
Campo Major	28.66	728.0	29.66	753.4	54.0	12.2	98	ssw.	20.0	9.2			10			0.472	12.0		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.85	758.1	29.93	760.3	64.4	18.0	62	wsw.	13.6	6.1			0			0.224	5.7		Capt. D. A. de Cunha.
Lisbon, Observatory	29.31	744.5	29.64	752.9	55.0	12.8	88	ssw.	18.6	8.3			10			0.646	16.4		The Staff.
Ponta Delgada, Azores	29.95	760.7	30.02	762.5	60.8	16.0	56	n.	10.5	4.7			4			0.055	1.4		
Saint Paul de Loando																			
Serra da Estrella	24.87	631.6	29.71	754.5	31.3	— 0.4	100	ese.	23.0	10.3			10			0.291	7.4	snow & fog	
RUSSIAN.																			
Akmolinski	28.94	735.1	29.91	761.8	63.5	17.5	16	e.	9	4		5 c	0			0	0		Major K. Lasarew.
Archangel	29.80	756.9	29.82	757.4	60.8	16.0	77	e.	13	6		2 cs	0			0.217	5.5		Capt. Sselliwerstow.
Ashurada	29.98	761.4	29.88	759.0	73.2	22.9	69	nnw.	7	3		0	2 s;n			0	0		
Astrakhan	30.21	767.2	30.12	765.1	70.3	21.3	33	e.	11	5		0	1 s			0	0	light clouds	Capt. Wisganow.
Baku	29.98	761.4	29.93	760.2	73.8	23.2	49	nne.	4	2		0	0			0	0		
Barnaul	29.87	758.6	30.37	771.5	48.6	9.2	27	ne.	9	4		0	0			0	0		Meteorological Obs'y
Bieloserak	29.47	748.4	29.91	759.8	70.9	21.6	61	sse.	13	6			9 ks			0.138	3.5		
Dorpat	29.58	751.4	29.83	757.6	45.0	7.8	78	ssw.	13	6			10 ks			0.012	0.3		Observatory.
Ekaterinburg	29.34	745.1	30.30	769.5	57.0	13.9	42	nnw.	13	6		10 c	0			0	0	solar corona	Meteorological Obs'y.
Elisawetgrad	29.49	749.1	29.92	760.0	78.6	25.9	40	ese.	4	2		0	7 kn			1.803	45.8		
Irkutsk	28.54	725.0	30.21	767.3	45.0	7.2	59	calm			0		9			0	0		
Kasalinsk	29.33	744.9	29.50	749.4	69.1	20.6	41	n.	9	4		10 ck	0						
Kasan	30.03	762.8	30.29	769.4	71.1	21.7	36	e.	2	1		0	1			0	0		Observatory.
Kem	29.65	753.2	29.71	754.5	41.7	5.4	97	ene.	9	4			10 ks			blank	blank	heavy cld's.	
Kertch	29.85	758.2	29.87	758.8	66.6	19.2	67	wnw.	7	3		6 c	0			0	0		Lagorio & Sastyres.
Kieff	29.35	745.4	29.97	761.2	61.7	16.5	62	nne.	4	2		cs	2 ks			0	0	light clouds	Observatory.
Koslov	29.65	753.0	30.17	766.3	69.8	21.0	42	sse.	22	10		5 cs	0			0	0		
Liban	29.91	759.8	29.94	760.4	46.8	8.2	81	ssw.	9	4			7			0.413	10.5		E. Quass.
Lugan	29.74	755.5	29.92	760.0	76.5	24.7	31	ese.	45	20			8			0	0	light clouds	Meteorological Obs'y.
Moscow	29.56	750.9	30.02	762.4	70.9	21.6	49	s.	22.4	10.0		0	8 ks			0	0		Meteorological Obs'y
Nikolaiev	29.87	758.8	29.95	760.7	73.4	23.0	46	s.	4	2		0	8 ks;n			0.146	3.7		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.74	755.5	29.83	757.7	34.9	1.6	76	calm	0	0			0			0	0		Iwanow.
Pekin, China	29.82	757.3	29.96	760.9	62.1	16.7	75	se.	3.4	1.5		0	7 n			0	0		Physical Observatory.
Petro-Alexandrovsk	29.53	750.1	29.86	758.5	82.2	27.9	22	nnw.	1.1	0.5		0	3 ks			0	0		
Petrozavodsk	29.52	749.8	29.71	754.6	68.9	20.5	55	sw.	22	10		5 ck	0			0.020	0.5		Dr. Bergmann.
Pinsk	29.54	750.4	30.04	762.9	59.7	15.4	50	s.	7	3		3 ck	0			0	0	light clouds	
Poti	29.91	759.6	29.94	760.4	66.9	19.4	94	s.	4	2		0	0			0	0		
St. Petersburg	29.77	756.2	29.80	756.8	57.0	13.9	51	ssw.	20	9		0	5 k			0.661	16.8		Central Physical Obs'y.
Samarkand	27.50	698.5	29.85	758.1	77.5	25.3	38	calm	0	0		0	1 k			0.047	1.2		
Semipalatinsk	29.60	751.9	30.20	768.5	59.2	15.1	20	ne.	9	4			0			0	0		Major Lasarew.
Sevastopol	29.72	754.9	29.95	760.6	56.8	13.8	79	nw.	16	7			9 n			0.138	3.5		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.59	751.5	30.04	762.9	64.8	18.2	49	sse.	9	4			10 k			0.012	0.3	light clouds.	
Tashkend	28.26	717.8	29.85	758.2	74.5	23.6	35	n.	9	4		0	8 sn			0	0		Terch, A. M.
Tiflis	28.50	723.8	29.85	758.1	70.6	24.8	50	sw.	13	6			9 n			0	0		Physical Observatory.
Vernoe	27.41	696.1	29.83	757.7	65.1	18.4	37	nw.	2	1			9 n			0	0		
Vlatka	29.02?	737.2?	29.63?	752.6?	67.3	19.6	38	ssw.	4	2			1			0	0		
Warsaw	29.54	750.4	29.96	761.0	58.1	14.5	34	se.	9	4		1 ck	0			0	0	light clouds	Astronomical Obs'y.
Yeniseisk	30.02	762.5	30.31	769.8	51.6	10.9	51	w.	7	3			3			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.89	759.2	39	3.9	90	ne.			7	3	0		ne.	0.1	3.	d. clouds	J. Youngclause
North Unst			29.85	758.2				nw.			3	0	1						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.61	752 1	29.72	754.8	66.2	19.0	52	sw.	4.0	1.8		0	2			0	0	solar halo.	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.61	752.2	29.67	753.7	62.6	17.0	72	nw.	1.6	0.7		2	6	se.		0.138	3.5	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.76	679.7	29.72	755.0	49.5	9.7	56	sw.	11.4	5.1			9			0.047	1.2	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.59	700.7	29.84	757.9	48.4	9.1	67	sw.	15.4	6.9			10			0.087	2.2	covered	The Staff.
Murcia, Met. Obs'y	29.62	752.4	29.77	756.1	68.7	20.4	56	s	3.4	1.5		2	5	se.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	28.76	730.5	29.61	752.0	53.6	12.0	70	e.	13.2	5.9		6 kn	4 kn	e.	w.	0.504	12.8	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.66	727.8	29.55	750.6	50.4	10.2	84	s.	21.0	9.4			10			0.134	3.4	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.98	761.6	30.05	763.3	73.6	23.1	76	ese.	3.4	1.5		c;ck	0	w.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.7	29.93	760.2	85.0	29.4	76	ese.	19.7	8.8		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.80	757.0	29.90	759.4	63.9	17.7	75	s.	17.8	8.0			10		sw.	0.050	1.3		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	29.91	759.8	30.00	762.1	80.2	26.8	79	calm	0	0		3 cs	1 k	sw.	e.	0	0	clear	Enrique Gadea, Chf Eng't
SWEDISH.																			
Haparanda	29.66	753.3	29.70	754.3	47.8	8.8	66	nne.			4		10			0	0		
Umea	29.64	752.8	29.69	754.1	57.6	14.2	41	ne.			4		7			0	0		
Hernosand	29.65	753.2	29.71	754.5	57.2	14.0	51	s.			4		0			0	0		
Stockholm	29.61	752.1	29.79	756.6	57.9	14.4	44	w.			2		0			0	0		
Wisby	29.76	755.8	29.82	757.3	46.4	8.0	72	w.			4		0			0.146	3.7		
Sub-series.																			
Upsala	29.65	753.2	29.74	755 4	60.8	16.0	34	sw.	8.7	3.9			2			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.31	719.1	29.73	755 1	58.1	14.5	72	n.			2		10			0.012	0.3	covered	The Observatory.
TURKISH.																			
Constantinople			29.97	761.2	65.3	18.5	71	s.	2	1.0			7		sw.	0.189	4.8		The Observatory.
Valona			30.02	762.4	69.6	20.9		nw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.93	760.3	69.8	20.8	60	w.			2		2 k		w.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.79	756.7	29.87	758.7	61	16.1	60	s.	2	0.9		0	7 ks		w.	inap.	inap.	fair	J. O. Barnes.
Alpena, Michigan	29.34	745 2	30.00	762.0	40	4.4	65	w.	8	3.6		4 cs	0	w.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.90	632.4	29.72	754.9	32	0.0	74	ne.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.04	686.8	29.88	758.9	43	6.1	60	ne.	10	4.5		5 k	0			0	0	fair	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.11	764.8	67.0	19.4	73	se.	9	4.0		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	29.90	759.4	29.90	759.4	57	13.9	80	sw.	8	3.6		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	65	18.3	78	se.	2	0.9		1 c	0			0	0	clear	John Healy.
Baltimore, Maryland	29.90	759.4	29.95	760.7	64	17.8	73	sw.	3	1.3		6 ck	sk.			0	0	fair	Geo W Felger.
Barnegat City, New Jersey	29.88	758.9	29.90	759.4	62.0	16.7	78	w.	10	4.5		3 c	hz.			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.66	753.4	29.68	753.9	30.1	— 1.1		nw.	5	2.2			10 n			0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28 33	719.6	29.89	759.2	46.5	8.1	77	ne.	8	3.6			10 s			0.02	0.5	cloudy	A. Pritchard.
Benton, Fort, Montana	27.05	687.1	29.84	757.9	51	10.6	61	calm	0	0		0	3 ks			0	0	clear	S. Wheaton.
Billings, Montana	26.59	675.4	29.77	756.1	48	8.9	86	s.	2	0.9			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.16	715.3	29.95	760.7	46	7.8	56	e.	4	1.8		10 cs	0	nw.		0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.86	758.4	29.89	759.2	50	10.0	82	sw.	22	9.8		0	hz			0.01	0.3	clear	J. T. Elker.
Boise City, Idaho	27.13	689.1	29.97	761.2	49	9.4	86	n.	2	0.9		0	5 s			0.70	17.8	fair	J. Kenealy.
Boston, Massachusetts	29.68	753.9	29.84	757.9	62.0	16.7	60	sw.	11	4.9		3 ck	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.81	757.2	29.85	758.2	76.3	24.6	76	se.	6	2.7		2 c	0	w.		0	0	clear	M. McCarty.
Buffalo, New York	29.22	742.2	29.96	761.0	47.8	8.8	86	w.	4	1.8		0	9 s		w.	inap.	inap.	cloudy	W. Finn.
Buford, Fort, Dakota	27.98	710.7	29.96	761 0	46	7.8	56	e.	4	1.8		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.57	751.1	29.86	758.4	49.0	9.4	77	n.	15	6.7		1 k	5 s	w.	w.	0.01	0.3	fair	D. N. Farnell.
Cairo, Illinois	29.61	752.1	30.01	762.2	65.6	18.7	75	nw.	2	0.9		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	29.99	761.7	30.01	762.2	64	17.8	52	sw.	20	8.9		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey																			W. E. Smith.
Cape Mendocino, California	29.32	744.7	30.00	762.0	46	7.8	93	calm			0		fg.			0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.09	764.3	30.11	764.8	76	24.4	76	se.	10	4.5		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.10	764.5	30.15	765.8	72.0	22.2	84	sw.	4	1.8		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.11	764.8	65.0	18.3	73	sw.	1	0.4		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.09	764.3	57.0	13.9	80	calm	0	0		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.80	604.5	29.67	753.6	40.8	4.9	86	ne.	8	3.6			10 s		ne.	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.25	742.9	29.95	760.7	46.2	7.9	89	e.	11	4.9			10 s		sw.	0.19	4.8	cloudy	John Laurens.
Chincoteague, Virginia	29.96	761.0	29.98	761.5	60	15.6	70	s.	8	3.6		6 ck	hz.			0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.35	745.5	30.00	762.0	65.0	18.3	58	se.	2	0.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.26	743.2	29.99	761.7	48	8.9	79	n.	5	2.2			10 s		w.	0.05	1.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.05	712.5	29.84	757.9	64	17.8	84	se.	8	3.6		0	9 s			0	0	cloudy	T. J. Kenan.
Columbus, Ohio	29.10	739.1	29.94	760.5	63	17.2	63	s.	3	1.3		5 cs	4 k	sw.	sw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.89	708.4	29.79	756.7	65.6	18.7	78	s.	14	6.3			10 k		s.	0	0	cloudy	J. McGlone.
Davenport, Iowa	29.24	742.7	29.88	758.9	56	13.3	69	e.	11	4.9		5 cs	3 ks	w.	sw.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.04	636.0	29.76	755.9	61	16.1	65	s.	2	0.9		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.04	712.2	29.79	756.7	52	11.1	100	sw.	4	1.8			10 n			0.51	13.0	light rain	D. Moore.
Deadwood, Dakota	25.22	640.6	29.74	755.4	40	4.4	100	calm	0	0			10 n			0.01	0.3	light rain	F. Willson.
Delaware Breakwater, Del.	29.91	759.7	29.93	760.2	61	16.1	72	sw.	20	8.9		2 cs	0			0	0	clear	T. S. Townsend.
Denver, Colorado	24.50	622.3	29.66	753.4	49.5	9.7	93	n.	6	2.7			10 n			0.01	0.3	light rain	F. M. Neal.
Des Moines, Iowa	29.00	736.6	29.89	759.2	57	13.9	80	se.	6	2.7			10 n		se.	0.03	0.8	light rain	F. W. Conrad.
Detroit, Michigan	29 30	744.2	30.00	762.0	46.0	7.8	76	ne.	11	4.8		10 ck	0	ne.		0.10	2.5	cloudy	E. R. Brace.
Dodge City, Kansas	27.14	689.3	29.69	754.1	62	16.7	78	sw.	16	7.2		3 cs	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.22	742.2	29.92	760.0	53	11.7	88	e.	3	1.3			10 s			0.26	6.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.29	744.0	30.04	763.0	47	8.3	56	calm	0	0		7 cs	0			0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.07	738.4	29.87	758.7	71.0	21.7	79	se.	9	4.0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.06	636.5	29.74	755.4	38	3.3	82	sw.	4	1.8		0	6 ks		sw.	0	0	fair	H. R. Boynton.
Eastport, Maine	29.69	754.1	29.76	755.9	45.0	7.2	83	sw.	14	6.3			10 s		sw.	0.03	0.8	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.05	687.1	29.75	755.6	60	15.6	78	s.	16	7.2		7 c	0	s.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.17	664.7	29.81	757.2	58.0	14.4	56	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.27	743.4	29.99	761.7	51	10.6	80	nw.	1	0.4			10 s		nw.	0.02	0.5	cloudy	O. A. Shaw.
Escanaba, Michigan	29.35	745.5	30.01	762.2	45.2	7.3	75	w.	8	3.6		4 c;cs	1 s	w.	w.	0	0	fair	George Heathcote.
Galveston, Texas	29.92	760.0	29.96	761.0	75	23.9	82	s.	12	5.4		2 c	7 k	n.	se.	0	0	cloudy	E. O'C. Machnerney.
Grand Haven, Michigan	29.32	744.7	29.98	761.5	47.0	8.3	66	calm	0	0			10 s		sw.	0	0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.13	638.3	29.74	755.4	40	4.4	62	n.	4	1.8		0	hz.			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.10	764.5	30.12	765.0	63	17.2	90	sw.	11	4.9		0	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	25.62	650.7	29.79	756.7	45	7.2	56	sw.	4	1.8			10 s			0	0	cloudy	N. C. Smith.
Huron, Dakota	28.51	724.1	29.86	758.4	47.8	8.8	81	e.	11	4.9			10 n		ne.	0.15	3.8	light rain	S. W. Glenn.
Indianapolis, Indiana	29.15	740.4	29.94	760.5	65.0	18.3	58	sw.	2	0.9		7 cs	0			0	0	fair	C. F. R. Wappenhans.
Indianola, Texas	29.89	759.2	29.92	760.0	73.3	22.9	89	s.	8	3.6		2 c	4 k	n.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.70	729.0	29.85	758.2	64	17.8	52	se.	11	4.9		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	30.11	764.8	30.15	765.8	73.5	23.1	82	se	4	1.8		1 cs	0			0.21	5.3	clear	J. W. Smith.

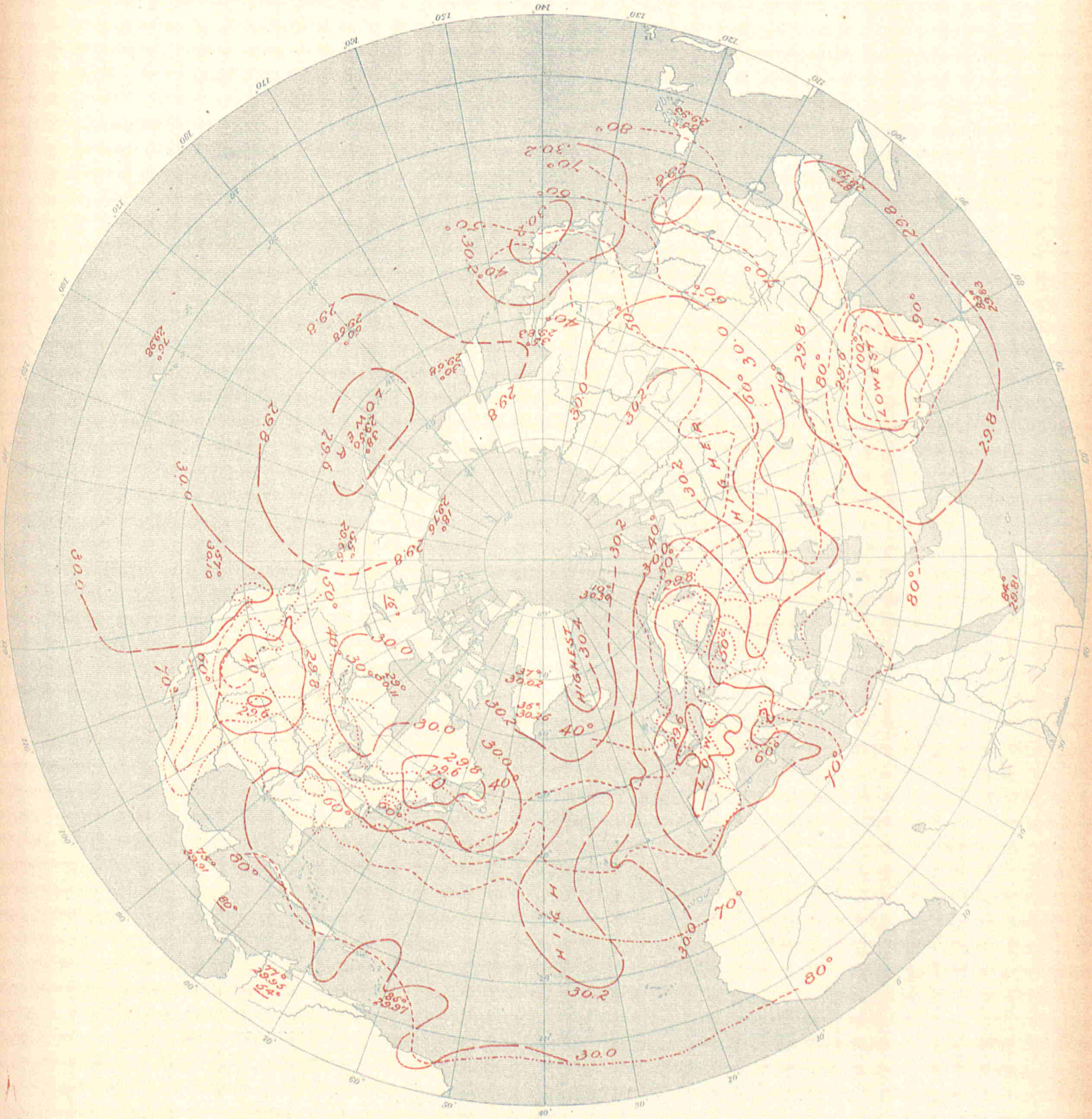
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.36	694.9	29.81	757.2	52	11.1	74	se.	8	3.6			10 s			0	0	cloudy	W. B. Lamar.
Keokuk, Iowa	29.20	741.7	29.85	758.2	67.0	19.4	68	sw.	3	1.3		7 cs	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	78.0	25.6	64	e.	11	4.9		2 k	2 ks	e.	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.07	763.8	30.09	764.3	64	17.8	68	sw.	16	7.2		hz.	0			0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.08	738.6	30.10	764.5	59.9	15.5	77	calm	0	0		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.17	740.9	29.93	760.2	51	10.6	80	n.	12	5.4			10 s		n.	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.96	735.6	29.84	757.9	66	18.9	68	s.	6	2.7		6 cs	0	w.		0	0	fair	A. W. Browne.
Lewiston, Idaho	28.95	735.3	29.79	756.7	52.0	11.1	90	e.	2	0.9			10 s		e.	0.46	12.2	cloudy	W. Bell.
Little Rock, Arkansas	29.65	753.1	29.96	761.0	63	17.2	73	calm	0	0		4 ck	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.66	753.4	30.06	763.5	52	11.1	93	calm	0	0		0	5 s		se.	0.16	4.1	fair	T. S. Collins.
Louisville, Kentucky	29.42	747.3	29.97	761.2	65	18.3	58	s.	6	2.7		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.32	744.7	30.00	762.0	69	20.6	61	sw.	1	0.4		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.36	745.7	30.01	762.2	40.0	4.4	57	nw.	6	2.7		7 c	0			0.03	0.8	fair	D. B. Notson.
Macon, Fort, North Carolina	30.12	765.0	30.14	765.5	65.0	18.3	90	sw.	6	2.7		0	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.44	646.2	29.85	758.2	44	6.7	63	se.	4	1.8		10 k	0			0	0	cloudy	F. Burke.
Marquette, Michigan	29.32	744.7	30.04	763.0	41	5.0	48	n.	8	3.6		0	0			0	0	clear	E. H. Thompson.
Memphis, Tennessee	29.05	753.1	29.98	761.5	66	18.9	63	calm	0	0		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.22	742.2	29.96	761.0	42	5.6	92	e.	12	5.4			10 n		w.	inap.	inap.	light rain	W. Line.
Missoula, Fort, Montana	26.54	674.1	29.84	757.9	46	7.8	56	n.	4	1.8		0	5 ks			0	0	fair	J. H. Young.
Mobile, Alabama	30.04	763.0	30.08	764.0	68	20.0	91	s.	1	0.4			fg.			0	0	dense fog	C. A. Read.
Montgomery, Alabama	29.81	757.2	30.04	763.0	65	18.3	84	calm	0	0		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.02	737.1	30.00	762.0	39	3.9	61	se.	6	2.7		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.46	595.9	29.64	752.8	31.0	— 0.6	100	nw.	64	28.6			10n;fg		nw.	0.34	8.6	sleeting	S. W. Beall.
Nashville, Tennessee	29.48	748.8	30.05	763.3	59.0	15.0	75	se.	1	0.4		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.75	755.6	29.87	758.7	54.5	12.5	77	sw.	4	1.8		0	hz.			inap.	inap.	clear	J. H. Sherman.
New London, Connecticut	29.84	757.9	29.89	759.2	58	14.4	70	s.	6	2.7		0	0			0.05	1.3	clear	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.04	763.0	69.0	20.6	81	se.	1	0.4		0	0			0	0	clear	H. C. Smyth.
New York, New York	29.72	754.9	29.90	759.4	56	13.3	80	sw.	3	1.3		0	0			inap.	inap.	clear	G. E. Franklin.
Norfolk, Virginia	30.00	762.0	30.03	762.7	66	18.9	73	sw.	11	4.9		0	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	26.80	680.7	29.67	753.6	55.6	13.1	84	e.	12	5.4		0	5 s			0.12	3.0	fair	E. F. Brady.
Olympia, Washington T'y	29.94	760.5	29.98	761.5	49.0	9.4	93	sw.	1	0.4			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.68	728.5	29.84	757.9	55.5	13.1	100	se.	12	5.4			10 n		se.	2.04	51.8	light rain	A. Pollak.
Ogdaamie, Alaska	29.74	755.4	29.76	755.9	18.2	— 7.7	100	sw.	14	6.3			10 s			0.14	3.6	cloudy	P. H. Ray.
Oswego, New York	29.60	751.8	29.93	760.2	43.5	6.4	93	w.	9	4.0		0	8 k		nw.	0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.42	747.3	29.97	761.2	67.0	19.4	93	s.	13	5.8			10 ks		s.	0	0	threatening	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.08	764 0	72.0	22.2	90	s.	2	0.9		0	1 k			0	0	clear	M. McGauran.
Philadelphia, Pa	29.84	757.9	29.94	760.5	59.5	15.3	87	sw.	5	2.2		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.60	447.0	29.66	753.4	17	— 8.3	100	sw.	38	17.0			10 n		sw.	0.12	3.0	light snow	H. Hall.
Pioche, Nevada	23.84	605.5	29.76	755.9	35.0	1.7	82	nw.	5	2.2		2 c	3 s			0.03	0.8	fair	F. B. Day.
Pittsburg, Pennsylvania	29.14	740.1	29.94	760.5	65.5	18.6	56	calm	0	0		4 k	3 s	nw.	nw.	inap.	inap.	fair	W. A. Reid.
Poplar River, Montana	27.77	705 3	29.89	759.2				se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.33	745.0	30.01	762.2	40.5	4.7	76	ne.	2	0.9			10 s			0.02	0.5	cloudy	M. H. Perry
Portland, Maine	29.69	754.1	29.74	755.4	58.0	14.4	64	sw.	12	5.4		0	hz.			0.02	0.5	clear	W. W. Eichelberger
Portland, Oregon	29.89	759.2	29.96	761.0	50.0	10.0	90	n.	3	1.3			10 n			0.06	1.5	light rain	M. L. Hearne.
Portsmouth, N. C.					66	18.9	73	sw.	13	5.8		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24 62	625.3	29.72	754.9	36.0	2.2	69	s.	5	2.2		0	0			0.04	1.0	clear	Jas Cassidy.
Provincetown, Mass	29.84	757.9	29.87	758.7	53	11.7	72	sw.	10	4.5		0	2s;hz		w.	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.10	764.5	72	22.2	79	e.	6	2.7		0	0			0.02	0.5	clear	W. J. Evans.
Red Bluff, California	29.65	753.1	30.00	762.0	51	10.6	100	s.	4	1.8			10 n		s.	0.40	10.2	light rain	J. R. Williams.
Rochester, New York	29.29	744.0	29.95	760.7	48	8.9	86	nw.	10	4.5			10 k		nw.	0.02	0.5	cloudy	E. W. McGann.
Roseburg, Oregon	29.46	748.3	30.02	762.5	49	9.4	80	calm	0	0		0	9 s		nw.	0.02	0.5	cloudy	J. J. Nanry.
Sacramento, California	29.95	760.7	30.03	762.7	52.0	11.1	86	s.	10	4.5			8 s			0.14	3.6	cloudy	J. A. Barwick.
St. Louis, Missouri	29.34	745.2	29.92	760.0	64.2	17.9	80	s.	9	4.0		2 c	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.67	753.6	29.70	754.4	26	— 3.3	100	n.	2	0.9		0	8 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.13	739.9	29.97	761.2	49.5	9.7	57	ne.	5	2.2			10 s			0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.18	741.2	30 04	763.0	32	0.0	68	ne.	6	2.7		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.39	644.9	29.71	754.6	44	6.7	41	calm	0	0		8 k	0	sw.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.22	742.2	29.92	760.0	71	21.7	84	se.	7	3.1			10 s		se.	0	0	cloudy	J. H. Davis.
San Diego, California	29.96	761.0	30.04	763.0	53.3	11.8	88	ne.	3	1.3		1 k	3 s			0.02	0.5	fair	A. O. Dobbins.
Sandy Hook, New Jersey	29.84	757.9	29.87	758.7	58.0	14.4	80	w.	12	5.4		0	0			0	0	clear	B. A. Blundon.
Sanford, Florida	30.08	764.0			74	23.3	82	se.	2	0.9		0	0			0.26	6.6	clear	J. B. Marbury.
San Francisco, California	29.99	761.7	30.06	763.5	50	10.0	86	w.	7	3.1			10 n		w.	0.02	0.5	light rain	N. Gorom.
Santa Fé, New Mexico	23.00	584.2	29.61	752.1	43	6.1	25	s.	14	6.3		2 k	0	s.		inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.07	763.8	30.16	766.1	72	22.2	76	se.	2	0.9		1 k	hz.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.21	665.7	29.81	757.2	45	7.2	86	sw.	3	1.3		8 k	0			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.75	755.6	29.99	761.7	67.0	19.4	87	se.	3	1.3			9 ks		se.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.58	725.9	29.80	756.9	62.5	16.9	86	se.	10	7.2		1 k	0	se.		0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.60	751.8	29.66	753.4	54.5	12.5	72	e.	14	6.3			10 ks		e.	0.31	7.9	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.46	748.3	29.92	760.0	61.5	16.4	87	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.11	764.8	30.15	765.8	67	19.4	78	w.	8	3.6		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.78	705.6	29.84	757.9	51	10.6	93	nw.	4	1.8		2 c	0	w.		0	0	clear	John F. Hemenway.
Springfield, Illinois	29.22	742.2	29.89	759.2	61	16.1	65	sw.	8	3.6		7 c	0	w.		0	0	fair	T. B. Jennings.
Springfield, Missouri	28.51	724.1	29.93	760.2	62	16.7	72	s.	7	3.1		2 ck	0	nw.		0	0	clear	J. H. Bryce.
Starkville, Miss	29.58	751.3	30.05	763.3	67	19.4	73	s.	4	1.8		0	3 k		s.	0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.12	714.2	29.95	760.7	42	5.6	70	ne.	2	0.9		4 c	2 s			0	0	fair	A. Schneider.
Stockton, Fort, Texas	26.78	680.2	29.79	756.7	61	16.1	90	se.	2	0.9		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	29.77	756.1	29.82	757.4	49.3	9.6	77	sw.	14	6 3		5 k	0	w.		0	0	fair	G. Liebmann.
Thomas, Camp, Arizona	27.16	689.9	29.84	757.9	47	8.3	58	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.30	744.2	29.98	761.5	51	10.6	72	ne.	10	4.5			10 s		n.	inap.	inap.	cloudy	A. Buell.
Tucson, Arizona	27.49	698.2	29.83	757.7	48	8.9	66	s.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.48	748.8	29.50	749.3	38	3.3	82	s.	1	0.4			0 s			0	0	fair	Samuel Applegate.
Verde, Fort, Arizona					40	4.4	25	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.79	756.7	30.04	763.0	64.4	18.0	90	se.	5	2.2		0	0			0	0	clear	James Kenealy.
Visalia, California	29.63	752.6	30.00	762.0	54.0	12.2	80	nw.	3	1.3			10 s		nw.	0	0	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.26	710.2	29.74	755.4	44.0	6.7	88	sw.	1	0.4			10 ks			0	0	cloudy	T. M. Ambler.
Washington, D. C.	29.84	757.9	29.96	761.0	64.2	17.9	82	s.	4	1.8		6 c	0	nw.		inap.	inap.	fair	T. B. Harrison.
West Las Animas, Colorado	25.73	653.5	29.58	751.3	51	10.6	74	n.	4	1.8		5 c	5 s	s.	s.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.33	745.0	29.93	760.2	53.8	12.1	80	w.	4	1.8			10 ks		w.	0.01	0.3	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.10	764.5	30.15	765.8	66	18.9	73	w.	4	1.8		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.49	647.4	29.84	757.9	39	3.9	92	sw.	6	2.7		0	8 s		sw.	0.04	1.0	cloudy	J. Grover.
Yankton, Dakota	28.55	725.2	29.83	757.7	50	10.0	86	ne.	21	9.4			10 ks		ne.	0.19	4.8	cloudy	J. H. Atfield.
Yuma, Arizona	29.76	755.9	29.91	759.7	53.4	11.9	60	sw.	4	1.8		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			54.0	12.2	82	calm	0	0			19 s			0.35	8.9	foggy	Joaquin Gomez.
Kingston, Jamaica, W. I.			29.97	761.2			73	n.	1	0.4		1 c	0			0	0	clear	Robert Johnston.
Paramaribo, S. A	30.02	762.5	30.02	762.5	80	26.7	82	ese.			2	0	3 k			0.240	6.1	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.39	746.5	29.95	760.7	77	25.0	89	calm			0		10 ks		n.	0.08	2.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					80	26.7	89	ne.			3					0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
Santiago de Cuba, W. I	29.96	761.0	29.99	761.7	77	25.0	74	n	5	2.2		6 cs	1 s		ne.	0	0		R. Mason.
York Factory, B. A	30.05	763.3	30.11	764.8	28.5	— 1.9	94	nw	10	4.5		1 c	1 s	nw.	nw.	0	0		Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
H. M. S. Alexandra, Malta, Mediterranean	29.84	757.9	70	21.1	75	calm			0		10	ese.						overcast.
H. M. S. Dido, Barbadoes, W.I.	30.01	762.2	82	27.8		se.			1		4	w.						d. clouds.
H. M. S. Flamingo, N 27° 19′ W. 67° 11′	30.01	762.2	74	23.3	90	nne.			3		2	ne.				3	ne.	d clouds.
H. M. S. Iris, Port Said, Egypt	29.93	760.2	69	20.6	80	nw.			3		1	ese.						blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.92	760.0	59.5	15.3	74	s.			2–5		6							showery
H. M. S. Rocket, N. 35° 20′, W. 37° 50′	30.25	768.3	64	17.8	78	n.			2		4					4	nnw.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	29.91	759.7	43	6.1	83	ssw.			3		9	sse.						squally.
U. S. Navy Yard, Pensacola, Fla.	30.07	763.8	75	23.9	90	se.	11	4.9			8		se.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H*	29.74	755.4	59	15.0	70	sw.	8	3.6			0			0	0			clear.
U. S. S. Alliance, N. 36° 10′, W. 74° 39′	30.09	764.3	65	18.3	84	wsw.			4		0			0	0	sm'h		clear.
U. S. S. Colorado, New York, N Y	29.98	761.5	59	15.0	100	sw.	4	1.8			0			0	0			clear.
U. S. S. Franklin, Norfolk, Va.	30.02	762.5	65	18.3	63	ssw.	10	4.5			2		calm	0	0			fair.
U. S. S. Jamestown, N. 29° 53′, W. 79° 44′	29.99	761.7	72	22.2	62	ene.			1		8		ene.			sm'h		cloudy.
U. S. S. Kearsarge, Norfolk, Va	30.06	763.5	65	18.3	73	sw.			2		2							fair.
U. S. S. Lancaster, N. 53° 47′, E. 3° 51′	29.69	754.1	50	10.0	100	sw.			2		10		calm			mod.	n.	hazy.
U. S. S. Michigan, Detroit, Michigan	29.98	761.5	47	8.3	70	e			2		10		e.					cloudy.
U. S. S. Minnesota, New York, N. Y.	30.00	762.0	64	17.8	67	ssw.			2		0							clear.
U. S. S. New Hampshire, Newport, R. I.	29.86	758.4	52	11.1	79	sw.			4		0					sm'h		clear.
U. S. S. Portsmouth, Hampton Roads, Va.	30.06	763.5	54	12.2	100	sw.			4		2		w.					hazy.
U. S. S. Powhatan, N. 27° 53′, W. 80° 27′	29.94	760.5	82	27.8	91	ene.			3		2					sm'h		fair.
U. S. S. Quinnebaug, Monrovia, Liberia, Africa	29.95	760.7	83	28.3	87	w.			1		5		w.			sm'h		fair.
U. S. S. Saratoga, N 27° 13′, W. 61° 27′	30.02	762.5	77	25.0	86	ene.			0–1		2		ene.	light	light	sm'h	ene.	clear.
U. S. S. St. Louis, League Island, Pa.	29.94	760.5	60	15.6	82	sw.	8.5	3.8			2		calm					clear.
U. S. S. Swatara, Blewfield Bluff †	29.87	758.7	80	26.7	82	nw.			3		5		nw.	sli't	sli't	sm'h		fair.
U. S. S. Tennessee, Fort Monroe, Va.	30.04	763.0	64	17.8	94	s.	14	6.3			0			0	0			clear.
U. S. S. Vandalia, Hampton Roads, Va.	30.01	762.2	64	17.8	58	sw.			4		0							clear.
U. S. S. Wabash, Boston, Mass.	29.85	758.2	60	15.6	60	sw.	6	2.7			5		sw.	0.01	0.3			fair.
U. S. S. Yantic, Norfolk, Va.	30.05	763.3	63	17.2	67	ssw.			3–4		2							clear.
Commewyne, N. 33° 50′, W. 50° 57′	30.08	764.0	71.7	22.1	85	s.			4		8							d. clouds.
S. S. British Crown, N. 45° 06′, W. 42° 24′†	30.03	762.7	56	13.3		sse.			6		6?		sse.	0	0	high	sw.	clear?
S. S. British Prince, N. 39° 35′, W. 59° 32′	30.11	764.8	58	14.4		var.			3		7		ne.	0	0	mod.	n.	cloudy.
S. S. Illinois, N. 43° 19′, W. 41° 04′*	30.17	766.3	60	15.6		ssw.			4		3		ssw.			sm'h	ne.	fine.
S. S. Lord Gough, N. 48° 26′, W. 21° 58′	30.08	764.0	51	10.6		n.			6		8		n.	sh'rs	sh'rs	long	ene.	squally.
S. S. Ohio, off Ormes Head, Wales†	29.58	751.3	43	6.1	92	ne.			6		10		ne.	18 h'r	18 h'r	mod.	ne.	rainy.
S. S Pennsylvania, Philadelphia, Pa †	29.93	760.2	78	25.6		w.			5		3		wsw.					clear.
S. S. Circassian, Quebec, Canada	29.79	756.7	46	7.8	77	w.			5		5		wnw.	6 h'r	6 h'r			d. clouds.
S. S. Grecian, Montreal, Canada †	29.86	758.4	45	7.2	92	n.			3		9		n.	6 h'r	6 h'r			cloudy.
S. S. Nova Scotian, N. 48° 42′, W. 35° 46′	30.29	769.3	54	12.2		s.			3		10		sw.			mod.	ssw.	cloudy.
S. S. Polynesian, N 49° 35′ W. 38° 55′	30.15	765.8	52	11.1		sse.			4		8		sw.	0	0	mod.	s.	cloudy.
S. S. Manitoban, N. 52° 54′, W. 23° 41′			49	9.4	85	nw.			4		4		wnw.	0	0	mod.	nw.	clear.
S. S. Antillas, N. 36° 16′, W. 74° 15′			64	17.8		n.			1							sm'h		clear
S. S. Jason, N. 41° 07′, W. 47° 50′†	30.07	763.8				ene.			3		10 n					2	ne.	foggy.
S. S. Alvo, Kingston, Jamaica, W.I.	29.95	760.7	80	26.7		ne.			1	c	0	calm		0	0			fine.
S. S. Alene, Port Limon, Costa Rica	29.96	761.0	80	26.7		var.			2		0			2 h'r	2 h'r	sm'h		fine.
S. S. Ailsa, San Juan, Porto Rico†	29.92	760.0	83	28.3		calm			0									fine.
S. S. Assyria, N. 39° 38′, W. 24° 40′	29.99	761.7	60	15.6		var.			5		6		n.	0	0	mod.	con	fine.
S. S. Bolivia, N. 42° 03′, W. 46° 55′*†	30.01	762.2	67	19.4		ssw.			4		mist		sw.	4 h'r	4 h'r	sm'h	e.	misty.
S. S. Dorian, N. 34° 11′, W. 55° 27′	29.97	761.2	66	18.9		s.			4		10		w.	8 h'r	8 h'r	sm'h	w.	rainy.
S. S. Devonia, N. 41° 42′, W. 58° 12′ *†	30.07	763.8	50	10.0		nnw.			1		4		ne.			sli't	nne.	fine.
S. S. Furnesia, Liverpool, Eng			55	12.8	87	ne.			3		6		ne.	5 h'r	5 h'r			fair.
S. S. Elysia, N. 40° 40′, W. 41° 18′	30.21	767.3	59.7	15.4	88	s.			2		3		sw.	0	0	sli't	nw.	clear.
S. S. Llandaff City, N. 50° 37′, W. 22° 30′†	30.05	763.3	48	8.9		nne.			5		8		ene.	sh'rs	sh'rs	high	ene.	cloudy.
S. S. Pavonia, N. 44° 30′, W. 38° 58′	30.17	766.3	57	13.9	69	sse.			5		4		nne.	0	0	sm'h		fine.
S. S. Scythia, N. 40° 27′, W. 72° 25′	29.88	758.9				ssw.			2		0			0	0			hazy.
S. S. Canada, N. 40° 33′, W. 69° 42′			57.2	14.0		sw.			4		0	sw.		0	0	sm'h	nw.	almost clear.
S. S. Ville de Marseilles, Vera Cruz, Mexico			75	23.9		ssw.			3		0			0	0	sm'h		clear.
S. S. Abyssinia, N. 49° 40′, W. 24° 20′			52	11.1	66	nw.			1		4 ?		nw.	0	0	mod.	e.	cloudy ?
S. S. Wisconsin, N. 49° 40′, W. 24° 00′	30.09	764.3	53	11.7		ne.			4		4		ne.	sh'rs	sh'rs	mod.	ne.	fair.
S. S. Wyoming, New York, N. Y.	29.90	759.4	56	13.3		sw.			2		0			0	0			hazy.
S. S. Bohemia, Hamburg, Germany						sse.			3		7			0	0			fair.
S. S. Gellert, New York, N.Y.	29.91	759.7	57	13.9	87	wsw.			3		0			2 h'r	2 h'r			clear.
S. S. Rusia, New York, N.Y.	29.93	760.2																
S. S. Silesia, N. 42° 45′, W. 46° 50′	29.95	760.7	53.7	12.1		s.			6		fg.			0	0	7	wsw.	foggy.
S. S. Westphalia. New York, N. Y	30.01	762.2	53	11.7	86	w.			4		7		w.					fair.
S. S. City of Paris, N. 41° 20′, W. 50° 37′						nnw.			4		10		nw.	4 h'r	4 h'r	cross	nw.	gloomy.
S. S. Colorado, N. 35° 14′, W. 75° 00′†	30.13	765.3	67	19.4		sw.			3		1		sw.	0	0	long	ne.	clear.
S. S. Rio Grande. N. 27° 02′, W. 88° 45′*†	30.04	763.0	84	28.9		ene.			1		2		ese.	0	0			clear
S. S. Chalmette, N 30° 58′, W. 80° 30′†	30.21	767.3	68	20.0		calm			0		2			0	0	mod.	e.	hazy.
S. S. New York, N. 25° 45′, W. 84° 45′			76	24.4		ese.			2		3		ese.			sm'h		clear.
S. S. Lone Star, N. 25° 20′, W. 84° 08′ †	30.08	764.0	78	25.6		ese.			3		3		e.	0	0	mod.	ese.	clear.
S. S. Alleghany, Boston, Mass †	29.83	757.7	62	16.7		w.			3		0			0	0			clear.
S. S. Archimede, New York Bay, N. Y†	29.89	759.2	60	15.6	65	nw.			1		0		nw.	0	0			clear.
S. S. City of Washington, N. 34° 30′ W. 75° 15†	30.18	766.6	74	23.3		s.			2		0			0	0	light	n.	clear.
S. S. Denmark, N. 40° 43′, W. 58° 06′†.	29.97	761.2	52	11.1		e.			3		10		e.	0	0	sli't	n.	cloudy.
S. S. Egypt, N. 40° 51′, W. 56° 15′*†	30.10	764.5	49	9.4		ne.			3		10		e.	0	0	mod.	ene.	cloudy.
S. S. Helvetia, N. 45° 18′, W. 41° 57′	30.15	765.8	61	16.1	88	ssw.			5		8		ssw.	0	0	sm'h	sw.	cloudy.
S. S. Holland, N 40° 42′, W. 63° 30′	30.24	767.6	52	11.1		sw.			4		8		sw.	0	0	mod.	sw.	cloudy.
S. S. America, off Wolf Rock, Eng*	29.60	751.8	56.5	13.6	84	sse.			3		2		s.	0	0	sm'h	sse.	clear.
S. S. Donau, N. 41° 11′, W. 49° 17′	30.03	762.7				nnw.			4		10		nnw.	2 h'r	2 h'r	r'gh	sw.	drizzling.
S. S. Elbe, N. 42° 38′, W. 43° 28′	30.15	765.8	61	16.1	95	se.			6–7		8		se.	0	0	r'gh	se.	cloudy.
S. S. Hohenstaufen, N. 41° 09′, W. 52° 46′	29.97	761.2				nnw.			4–5		9		nnw.	0	0	mod.	var.	cloudy.
S. S. Oder, N. 49° 33′ W. 7° 41′	29.60	751.8	50.0	10.0		nw.			4		7		n.	3 h'r	3 h'r	mod.	n.	fair.
S. S. Ohio, N. 40° 15′, W. 53° 20′	29.99	761.7				ne.			4		10		n.	0	0	cross	var.	cloudy.
S. S. Salier, N. 40° 12′, W. 56° 32′			50	10.0		nne.			4		10		ne.	0	0	r'gh	n.	cloudy.
S. S. Weser, N. 45° 14′ W. 39° 50′	30.24	768.1				s.			6		5		s.	0	0	long	nw.	fair.
S. S. Orinoco, Bermuda Island			73	22.8		n.			3		6		n.	½ h'r	½ h'r		wsw.	fair.
S. S. Muriel, St. Lucia, W. I.	30.00	762.0	82	27.8		ene.			2		0			light	light	sm'h		clear.
S. S. City of Augusta, New York, N. Y†	29.97	761.2				ssw.			3		4		sw.	0	0			fair.
S. S. Belgenland, N. 48° 40′, W. 17° 00′†	29.90	759.4	51	10.6	100	nne.			7		8		ne.	½ h'r	¼ h'r	r'gh	ne.	squally.
S. S. Nederland, N. 40° 40′, W. 51° 12′†*	30.08	764.0	58	14.4	94	nnw.			4		10		nnw.	4 h'r	14 h'r	cross	w.	cloudy.
S. S. Rhynland, N. 49° 33′, W. 18° 44′	30.07	763.8	48	8.9	85	ne.			9		8		n.	4 h'r	4 h'r	high	nne.	rainy.
S. S. Pennland, Antwerp, Belgium	29.74	755.5	62	16.7	100	sw.			2		10		s.	1 h'r	1 h'r			heavy rain.
S. S. Waesland, Jersey City, N. J	29.92	760.0	61	16.1		wsw.			2		0			0.01	0.3			clear.
S. S. Zeeland, N. 45° 30′, W. 35° 30′*†	30.14	765.5	60	15.6		s.			2		10		sw.	0	0	cross	sw.	overcast.
S. S. P. Caland, Rotterdam, Holland	29.57	751.1	63.7	17.6	79	se.			3		7		se.					fair.
S. S. Leerdam, N. 43° 39′ W. 49° 36′	29.95	760.7	49.5	9.7	85	nw.			5		8		nw.			long	nw.	cloudy.
S. S. Rotterdam, N. 49° 21′, W. 16° 25′	29.86	758.4	56	13.3	89	n.			6		5		nne.			7	nne.	showery.
S. S. W. A Scholten, New York, N. Y	29.88	758.9	59.0	15.0	82	sw.			1		0			0	0			clear.
S. S. Caracas, Curacoa, W. I †	30.02	762.5	82	27.8	83	ene.			3		5		e.	1½ h'r	1½ h'r	sm'h		fair.
S. S. State of Florida, N. 52° 27′, W. 21° 55′			46	7.8		nne.			5		9		n.	5 h'r	5 h'r	mod.	ne.	cloudy.
S. S. State of Nevada, N. 41° 30′ W. 53° 05′			44	6.7		n.			4		10		n.	0	0	light	sw.	overcast.
S. S. Lepanto, N. 36° 00′ W. 60 06′ *	29.92	760.0	62	16.7		ssw.			7		8		sw.	6 h'r	6 h'r	h'vy	w.	cloudy.
S. S. Marengo, N. 49° 54′, W. 5° 35†	29.73	755.1	56	13.3		sw.			5		5		nw.	2 h'r	2 h'r	r'gh	wnw.	fair.
S. S. Otranto, N. 45° 17′, W. 42° 55′	30.16	766.1	64	17.8		s.			8		10		s.	0	0	h'vy	sw.	overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Romano, N. 40° 08′, W. 70° 52′†	29.91	759.7	50	10.0		s.			5		6		s.			sm'h		fair.
S. S. Salerno, N. 32° 54′, E. 24° 50′			66	18.9		w.			1		0			0	0	sm'h	w.	clear.
S. S. Toronto, N. 50° 13′, W. 19° 55	29.97	761.2	50	10.0		nne.			6		4		nne.	1 h'r	1 h'r	short	ne.	fair.
S. S. Oregon, N. 51° 51′, W. 38° 58′	30.09	764.3	49	9.4		sse.			7		9		sse.			mod.	sse.	cloudy.
S. S. Lake Manitoba, N. 51° 00′, W. 17° 20′	30.05	763.3	49	9.4		ne.			6		9		ne.	2 h'r	2 h'r	short	n.	squally.
S. S. Daniel Steinmann, New York, N. Y†	29.92	760.0	65	18.3		s.			2		0			0	0			clear.
S. S. Norman, Philadelphia, Pa	29.85	758.2				sw.			1		0			0	0			clear.
S. S. Saxon, Philadelphia, Pa†	29.93	760.2							2		0			0	0			clear.
S. S. Baltic, N. 49° 42′, W. 29° 12′*	30.29	769.4	51	10.6	79	ene.			4		9		ne.	sh'rs	sh'rs	mod.	ene.	showery.
S. S. Celtic, N. 46° 34′, W. 40° 52′†	30.16	766.1	56	13.3		s.			6		8		sw.	0	0	mod.	sw.	cloudy.
S. S. Iowa, N. 42° 04′, W. 60° 05′†	30.13	765.3	48	8.9		calm			0		0			0	0	light	var.	clear.
S. S. Antonio Lopez, N. 19° 32′, W. 68° 58′	30.05	763.3	78	25.6	82	ne.			1		2			0	0	sm'h		clear.
Schr. Abbie H. Gheen, New York, N. Y†	29.92	760.0	60	15.6		sw.			3					0	0			clear.
Bk. Aquidneck, N. 27° 11′, W. 65° 46′						var.			2–4				var.	0	0	hv'y	n.	clear.
Bk. Alpha, N. 39° 05′, W. 63° 17′*†	30.10	764.5	60	15.6		n.			1		1		n.	0	0	sm'h		clear.
Bg. Alcira, N. 26° 31′, W. 65° 17′	30.08	764.0	74	23.3		nne.			6		6		ne.	0	0	mod.	var.	fair.
Bk. Adelaide, N. 30° 29′, W. 50° 44′*†	30.20	767.1	75	23.9		sse.			5		1		sse.	0	0	mod.	se.	clear.
Schr. Annie R. Lewis, N. 28° 45′, W. 65° 42′†	30.14	765.5	73	22.8		n.			4		8		nne.	2 h'r	2 h'r	long	n.	cloudy.
Schr. Authur Burton, Nantucket, Mass						sw.			2		2		sw.	1 h'r	1 h'r	chop	sw.	hazy.
Bk. Aureola, St. Vincent, W. I†	29.85	758.2	88	31.1		ene.			1		3		ne.	1 h'r	1 h'r			clear.
Bk. Achille F, N. 32° —′, W. 23° —′†	30.06	763.5	61.5	16.4	79	w.			4		3		wnw.	3 h'r	3 h'r	long	nnw.	fine.
Bg. Annie R. Storer, N. 25° 52′, W. 69° 02′†	30.10	764.5				nne.			5		6		nne.	0	0	r'gh	nw.	cloudy.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.91	759.7	81	27.2		ene.			1		2		ene.	0	0			clear.
Bk. Champion, N. 21° 00′, W. 41° 51′			76	24.4	64	ne.			3		8		ne.	3 h'r	3 h'r	long	ne.	rainy.
Bkt. C. S. Bushnell, N. 34° 29′, W. 55° 47	29.99	761.7				n.			2		8		nw.	h'vy	h'vy	mod.	var.	raining.
Ship. Cornelius, N. 49° 33′, W. 26° 50′†	30.24	768.1	52.2	11.2		ne.			4		6		ene.	0	0	h'vy	ese.	squally.
Bk. Commerce, N. 34° 50′, W. 70° —′†	29.99	761.7	64	17.8		nnw.			1		0			0	0	sm'h	ne.	fine.
Bk. Childwall, N. 5° 50′, W. 23° 40′*	29.87	758.7	80	26.7		nne.			5		10		var.	0	0	light	ne.	hazy
S. David Stewart, N. 35° 50′, W. 68° 19′†	30.15	765.8				sw.			5		4		ssw.	0	0	light	sw.	clear.
S. S. D. J. Foley, N. 24° 20′ W. 74° 36′*†	30.10	764.5	78	25.6	78	n.			4		3		n.	0	0	long	n.	clear.
Bkt. David A. Preston, N. 41° 30′, W. 70° 00′			55	12.8		sw.			7		5		sw.	0	0	mod.	sw.	
Bk. Don Justo, N. 38° 35′, W. 75° 00′						ssw.			1		2		ssw.	0	0	mod.	sse.	hazy.
Schr. Edith R. Seward, N. 22° 48′, W. 71° 30′†	30.10	764.5	77	25.0		nne.			1		3		ne	0	0	mod.	ne.	clear.
S. E. J. Spicer, Liverpool, Eng	29.55	750.6	45	7.2		se			5		10		se.	12 h'r	12h'r			overcast.
Bk. E. D. Bigelow, Bay of Fundy, N. S*†	29.65	753.1				sw.			6				sw.	½h'r	½h'r			gloomy.
U. S. Fish Com. S. S. Fish Hawk, Quantico Creek, Va†	30.06	763.5	65	18.3	94	s.			1		3		calm	0	0			clear.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.13	765.3				s.			4					0	0			clear.
S. Festina Lente, off Bird Rocks, Canada	29.75	755.6	35	1.7		se.			4		10		s.	5 h'r	5 h'r	mod.	se.	overcast.
Bk. George Davis, N. 31° 31′, W. 75° 03′						se.			1				se.	0	0	sm'h	se.	fine.
Bg. Gipsy Queen, N. 26° —′, W. 79° 50′*†	30.00	762.0				ene.			5		1		ene.					fair.
Bk. Godeffroy, N. 32° 33′, W. 73° 33′*	30.18	766.6	66.6	19.2	77	n.			0–1		1			0	0	mod.	ne.	clear.
Bk. Galeon, N. 20° 49′ W. 99° 33′†	29.96	761.0	77	25.0		e.			2		0			0	0	sm'h	ne.	blue sky.
S. Hedwig, N. 37° 40′, W. 54° 28′	30.04	762.9	61.3	16.3	96	nne.			5		10		nne.	0	0	4	var.	rainy.
Bk. Hattie G. McFarland, Port Royal, S. C*†	30.11	764.8	70	21.1		calm			0		3		w.	0	0			fine.
Bk. John H. Pearson, N. 32° 47′, W. 48° 32′						ssw.			1				ssw.	1 h'r	1 h'r	sm'h	ne.	clear.
Schr. Isabel Alberto, N. 33° 25′, W. 76° 00′†	30.15	765.8				sw.			3		0			0	0	light	sw.	clear.
Bk. Cato, Setubal, Portugal*†	29.70	754.4				ssw.			5		6		ssw.	rain	rain			fair.
Schr. John L. Thomas, N. 32° 24′, W. 77° 04′*†	30.24	768.1				calm			0		0			0	0	light	ene.	clear.
Bg. John Wesley, Baley's Mills, Ga*†	30.05	763.3				calm			0		1			0	0			clear.
Schr. Jennie N. Huddell, N. 34° 20′, W. 76° 30′†	30.16	766.1	69	20.6	90	sw.			1		0			0	0	long	ene.	clear.
Bkt. Josephine, N. 4° 59′, W. 44° 14′†	29.94	760.5	82	27.8	71	sse.			4		10			20 h'r	20 h'r	mod.	ne.	cloudy.
Schr. Leonessa, N. 33° 30′, W. 77° 14′†	30.14	765.5				sw			1		0			0	0	cross		clear.
Bg. L. & W. Armstrong, St. Juan, Porto Rico, W. I*†	30.06	763.5				ssw.			1		1		ene.	0	0	sm'h		fine.
Light House Tender Laurel, Appalachicola Bay, Fla†	30.12	765.0	75	23.9		e.			1		1		ese.	0	0			clear.
Bg. Lilian, N. 22° 50′, W. 58° 00′†	29.97	761.2	71	21.7		s.			4		10		sw.	6 h'r	6 h'r	mod.	e.	rainy.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.97	761.2	79	26.1		calm			0		2			0	0			clear
S. S. Madrid, N. 41° 49′, E. 16° 53′†	29.98	761.5	64	17.8	78	se.			2		4		calm	0	0	sm'h		fair.
Schr. Minnie A. Bonsall, Brunswick, Ga†	30.17	766.3	79	26.1		calm			0		0			0	0			clear.
Bkt. Kryolith, N. 56° 12′, W 33° 02′*†	30.20	767.1				ese.			0		5		ese.	0	0	mod.	ese.	clear.
S. Mt. Washington, N. 21° 26′ W. 34° 36′*†	30.26	768.6	78	25.6	86	var.			4		7		e.	1 h'r	1 h'r	sm'h		cloudy
Bgt. Myrtle, Bay of Fundy, N. S*†	29.80	756.9				sw.			5		10		sw.	rain	rain	r'gh	sw.	raining.
Bk. Matthias, N. 38° 41′, W. 71° 55′			53	11.7		sw			4		6		wsw.	0	0	mod.	ene.	fine.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†	29.95	760.7							2		3		n.	0	0	short	n.	
Schr. Maud Briggs, N. 33° 39′, W. 65° 05′						nne.			4		1		nne.	0	0	sm'h		clear.
Bg. O. C. Clary, N. 33° 38′, W. 73° 32′ *†	30.12	765.0	68	20.0		calm			0		0					sm'h		clear.
Bk. Ottawa, Staten Island, N. Y			48	8.9		w.			4		3		wnw.	0	0			clear.
S. S. Raleigh, Baracoa, Cuba, W. I†	30.11	764.8	75	23.9		ne.			2		0					sm'h		clear.
S. Rudolph, N. 48° 30′ W. 23° 32′			52.0	11.1		nne.			5		7		ene.	1 h'r	1 h'r	long	ene.	squally.
Bk Rebus, N. 44° 28′, W. 33° 35′	30.25	768.3	58	14.4		e.			2		1		ese.	0	0	mod.	nnw	fair.
Bg. Rising Sun, N. 31° 35′, W. 70° 55′*†	30.20	767.1	72	22.2		nne.			4		1		nne.	0	0	short	n.	
Bk. Rosalie, N. 22° 00′, W. 61° 34′ *†	30.00	762.0				ne.			3				nne.	12 h'r	12 h'r	short	sse.	clear.
S. Salisbury, N. 46° 07′, W. 13° 08′*	29.69	754.1	53.8	12.1	83	ne.			6–7		7		ne.	sq'lls	sq'lls	h'vy	nne.	fair.
Bk. Southern Belle, Huelva, Portugal†	29.72	754.9	60	15.6		wsw.					10			sq'lls	sq'lls			cloudy.
S. St. Francis, N. 12° 25′, W. 35° 45′			78	25.6	73	ne.			6		4		ne.	0	0	mod.	ne.	fair.
S. S. Strathleven, N. 37° 28′, E. 6° 41′	29.90	759.4	62.8	17.1	84	w.			5		1		w.	4 h'r	4 h'r	1	w.	blue sky.
Bgt. Sunlight, N. 15° 21′, W. 56° 10′						ese.			4		7		ese.	½h'r	½h'r	mod.	se.	fair.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	29.96	761.0				n.			1		0							
Bk. Usko, N. 36° 47′, W. 72° 21 *	30.01	762.2	66	18.9		sw.			3		2		sw.	0	0	long	e.	clear.
S. Vincenzo Accame, N. 36° 20′, W. 48° 32′†	30.17	766.3	71.6	22		ssw.			4		0			0	0	light	s.	clear.
Bk. Winifred, N. 15° 26′, W. 52° 35′*†	30.10	764.5											se.	0	0		se.	d. clouds.
S. Wm. McGilvery, N. 28° 40′, W. 40° 00′*†	30.25	768.3	72	22.2	67	nnw.			2		3		nnw.	0	0	sm'h		fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.10	764.5	57	13.9	94	sse.			6		7	s.				3	se.	drizzling.
H. M. S. Boadicea, Cape Town, Cape Colony, Africa	30.04	763.0	63	17.2	83	nw.			1		9							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.87	758.7	57.7	14.3	96	se.			2		10							overcast.
U. S. S. Thetis, S. 32° 53′, W. 46° 39′	29.90	759.4	68	20.0	84	ene.			4		10					2	e.	raining.
U. S. S. Brooklyn, Montevideo, Uruguay*.	29.86	758.4	59	15.0	100	se.	9	4.0			10		se.	0.77	19.6	mod.	se.	cloudy.
U. S. S. Enterprise, Cape Town, Cape Colony, Africa*	29.99	761.7	64	17.8	89	nw.			2		10		calm			sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	29.85	758.2	60	15.6	94	se.			2		10					mod.	se.	cloudy.
S. S. Jerome, Amazon River, Brazil*	29.87	758.7	79	26.1		ne.			3		7			0	0			fair.
S. S. Archimedes, S. 17° 12′ W. 38° 27′	30.01	762.2				ene.			4		4		ne.	¼ h'r	¼ h'r	light	ene.	fair.
S. S. Hevelius, S. 35° —′, W. 56° —′†	29.92	760.0	66	18.9		e.			6		10		ene.	6 h'r	6 h'r	sm'h		raining.
S. S. Ptolemy, S. 17° —′, W. 37° 30′	30.13	765.3	80	26.7	66	ene.			2		4k;kn		wnw.	0.50	12.7	2	ese.	fair.
Bk. Gronsvaer, S. 6° 16′, W. 32° 00′†	29.89	759.1	81.0	27.2		ese.			5		5		e.	2 h'r	2 h'r	long	ese.	fair.
S. S. Minnie N. Gerow, S. 23° 25′, W. 38° 18′ †.	30.14	765.5	78	25.6		ene.			5		2		ne.	0	0	long	se.	clear.
S. S. Mendoza, S. 10° 03′, W. 33° 19′ †	30.20	767.1				e.			0				e.	0	0	mod.	e.	overcast.
S. S. Paramita, S. 47° 32′, W. 46° 25′ †	29.74	755.4	51	10.6		w.			4–6		5		wsw.	1 h'r	1 h'r	short	var.	fair.
S. Storm King, S. 43° 55′, W. 57° 05′ *†	29.98	761.5				sw.			5		4		sw.	0	0	sm'h	sw.	fair.
Inchkeith, S. 14° 11′, W. 7° 55′	30.11	764.8	73.2	22.9	76	se.			6		3							d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woo Sung, China	29.73	755.1	70	21.1	90	calm			0		2	nw.						d clouds.
H. M. S. Champion, N. 11° 00′, E. 101° 30′	29.79	756.7	87	30.6	96	sse.			1		4					1	sse.	d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Sappho, N. 8° 56′, W. 79° 31′			78	25.6	95	nw.			1		4	nw.						d. clouds.
H M. S. Flying Fish, N. 36° 59′, E. 125° 50′	29.98	761.5	52	11.1	93	nnw.			1		6					1	sw.	misty.
H. M. S. Swiftsure, Esquimalt, V. I.	29.91	759.7	50	10.0	93	w.			2		5	ssw.						d. clouds.
H. M. S. Zephyr, N. 37° 33′, E. 121° 25′	29.98	761.5	55	12.8	93	e.			2		10					2	ne.	overcast.
H. P. M. S. Tamega, Macao, China	29.85	758.2	84.2	29.0	85	sw.			4		4			0	0			d. clouds
U. S. Naval Hospital, Yokohama, Japan	30.24	768.1	56	13.3	72	calm			0		0			0	0			clear.
U. S. S. Adams, Georgia strait, Wash. Ter †	29.79	756.7	49	9.4	85	wsw.			1		0					sm'h		clear.
U. S. S. Monocacy, Kuro Id, Japan	30.01	762.2	62	16.7	100	se.			5		10		se.					cloudy.
U. S. S. Palos, Hong Kong, China	29.75	755.6	80	26.7	96	sw.			1		8		sw.					cloudy.
U. S. S. Richmond, Hong-Kong, China	29.75	755.6	80	26.7	100	sse.			2		8		sse.	0	0			cloudy.
S. S. Mexico, N. 32° 27′ W. 117° 35′ †	30.05	763.3	60	15.6	82	nw.			1		3		nw.			mod.	wnw.	clear.
S. S. Coptic, N. 40° 05′, W. 134° 55′	29.87	758.7	54.5	12.5	100	nw.			3		6		w	4 h'r	4 h'r	sm'h	w.	fair.
S. S. Oceanic, N. 41° 06′, W. 180° 00′*	29.68	753.9	60	15.6	94	sw.			5		10		sw.			4	var.	overcast
S. S. Willamette, Astoria, Oregon*†	30.07	763.8	50	10.0	100	w.			1		8		sw.	0	0			cloudy.
S. S. Ancon, N. 33° 43′, W. 118° 15′ †	30.02	762.5	53	11.7	86	wnw.			2		0					sm'h		clear.
S. S. Dakota, Victoria, B. C †	29.85	758.2	49	9.4	78	calm			0		5		nw.	0	0	sm'h		fair
S. S. G. W. Elder, off Point Bonita, Cal †	30.00	762.0	51	10.6	86	var.			2		10							hazy.
S. S. Queen of the Pacific, Columbia river bar Oreg'n†	29.98	761.5				w.			2		5			0	0	sm'h		fair.
S. S. State of California, San Francisco, Cal †	30.06	763.5	50	10.0	79	w.			2		10							overcast.
S. S. Australia, N. 34° 49′, W. 130° 30′	30.10	764.5	57	13.9	87	ssw.			2		6		sw.	0	0	mod.	nw.	fair.
S. S. City of New York, N. 16° 03′. W. 160° 08′†	29.98	761.5	76	24.4	82	ne.			4		2			0	0	mod.	ne.	clear.
S. S. City of Pekin, N. 28° 04′, E. 126° 14′			76	24.4	91	s.			5		10		s.	0	0	mod.	s.	overcast.
S. E. B. Sutton, N. 16° 00′ W. 119° 50′ †	30.01	762.2	71.5	21.4	85	ne.			3		9		ne.	0	0	mod.	nnw	cloudy.
S. S. Colima, Acajutla, San Salvador †	29.91	759.7	75	23.9	95	n.			3		9		nnw.	1.52	38.6	small		cloudy.
S. S. Granada, N. 20° 21′ W. 105° 45′ †	29.85	758.2	76	24.4	91	nw.			1		2		se.	0	0	small		clear.
S. S. Gordon Castle, N. 27° 54′, E. 121° 58′*	29.78	756.4	67.5	19.7	92	sse.			2–3		10		sse.					foggy.
S. Armenia, N. 18° 05′ W. 124° 10′ *	29.91	759.7	70	21.1	75	ene.			4		10		ene.	0	0	mod.	nw.	overcast.
S. S. Benledi, Hong Kong, China †	29.83	757.7	80	26.7	91	s.			3–4		6		s.	0	0	mod	ene.	fair.
Bk. Bore, S. 6° 21′, E. 117° 15′ *†	30.35	770.9	87	30.6		e.			2									
S. Grecian, S. 0° 26′, E. 129° 24′†	29.92	760.0	84	28.9	83	nw.			1		3		var.	1 h'r	1 h'r	sm'h		clear.
S. Titan, N. 14° 42′, W. 121° 47′*†	30.00	762.0	76	24.4	91	nne.			5		3		ne.	0	0	mod.	ne.	clear.
Bk. Xenia, N. 13° 09′, E. 112° 25′			86	30.0		sse			4		4		sse.	1 h'r	1 h'r	sm'h	ne.	clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, S. 33° 27′, E. 154° 09′			68	20.0	84	sw.			2		4	s.				4	se.	showery.
H. M. S. Espiegle, S. 22 28′, E. 175° 58′	30.07	763.8	74	23.3	63	se.			4		1					3	sse.	blue sky.
H. M. S. Kingfisher, S. 18° 41′, W. 152° 08′	29.94	760.5	77	25.0		ene.			2		3					3	ne.	d. clouds.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.99	761.7	57	13.9		ssw.			1							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.84	757.9	65	18.3	84.	calm			0		6							d. clouds.
U. S. S. Hartford, S. 11° 25′, W. 150° 10′ *.	29.83	757.7	85	29.4	72	ene.			4		2			light	light	sm'h		clear.
U. S. S. Iroquois, Valparaiso, Chili	30.08	764.0	60	15.6	82	calm			0		10					sm'h		cloudy.
U. S. S. Lackawanna, S. 37° 12′, W. 140° 10′ *	30.20	767.0	59	15.0	65	nne.			5		10					mod.	ne.	cloudy
U. S. S. Onward, Callao, Peru*†	30.10	764.6	65	18.3	84	calm			0		10		w.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.93	760.2	66	18.9	84	calm	0	0			10			0	0			cloudy.
U. S. S. Wachusetts, S. 10° 26′, W. 168° 02′	29.82	757.4	82	27.8	87	sse.			3		2		e.			long	e.	clear.
May Hulse, S. 55° 52′, W. 75° 57′	29.55	750.6	40.2	4.6	82	wsw.			7		10							squally.
S. S. City of Sydney, Sydney, N. S. W*†	30.06	763.5	59	15.0	76	sw.			2		0			0	0			clear.
S. S. Zealandia, Sydney, N. S. W	30.36	771.1	59	15.0	88	ssw.			6		10		sw.					raining.
S. David Crocket, S. 47° 02′, W. 85° 44′ *.	30.00	762.0	48	8.9	85	wnw.			4		4		w.	6 h'r	6 h'r	long	sw.	fair.
H. M. S. Lark. S. 23° 42′, E. 155° 34′	30.09	764.3	74.3	23.5	95	ne.			2		10					4	e.	showery.
U. S. S. Ranger, La Union, San Salvador	29.91	759.7	80	26.7	82	ssw.			1		8			0	0			cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′ E. 44° 58′	29.71	754.6	84	28.9		e.			2		4	nne.						d. clouds.
H. M. S. Euryalus, Colombo, Ceylon	29.73	755.1	83	28.3	87	sw.			6		7	sw.						d clouds.
H. M. S. London, Zanzibar, Zanzibar	29.91	759.7	79	25.1	91	sse.			1		5	sse.				3	sse.	d. clouds.
H. M. S. Tourmaline, N. 18° 02′, E. 56° 25′	29.83	757.7				sw.			3		1	sw.				1	sw.	blue sky.
H. M. S. Woodlark, Shargeh, Persia	29.78	756.4	86	30.0	72	sw.			2		1							blue sky.
U. S. S. Juniata, N. 26° 33′, E. 55° 54′	29.79	756.7	85	29.4	87	sw.			3		1			0	0	sm'h	sw.	clear.
Bk. Alpheus Marshall, S. 31° 30′, E. 31° 46′ *†	29.95	760.7				ssw.			1		1		calm	0	0	sll't	s.	clear.
S. Annie M. Law, S. 17° 34′, E. 82° 43′ *†	30.00	762.0	77	25.0		ese.			2		1		se.	0	0	long	ssw.	clear.
S. S. Burswell, N. 13° 01′, E. 50° 23′*†	29.86	758.4	90	32.2		calm			0		7		calm	0	0	sm'h		fair.
Bk. Ceylon, S. 26° 51′, E. 51° 08′ *†	30.02	762.5	78	25.6	82	s.			4		7		s.	slight	slight	mod.	sw.	fair.
S. Dynomene, S. 32° 50′ E. 30° 50′	30.06	763.5	73	22.8	72	calm			0		3			0	0	mod.	var.	clear.
S. S. Malabar, N. 11° 38′ E. 54° 12′						se.			3		0			0	0	sm'h		clear.
Bk. Pilgrim, S. 6° 30′, E. 105° 30′*†	29.85	758.2				calm			0		3			0	0			clear.
S. S. Radnorshire, N. 12° 50′, E. 58° 37′*†	29.86	758.4				calm			0					0	0	sll't	s.	clear.
S. St. David, S. 36° 43′, E. 87° 09′*†	29.36	745.7	57	13.9	87	sw.			8		10		sw.	h'vy	h'vy	hv'y	sw.	rain & hail.
Bk. Chas. Stewart, S. 44° 00′, E. 141° 30′†	30.51	774.9	51	10.6		s.			7		5		s.	0	0	rg'h	var.	squally.
S. S. Foscolia, N. 6° 39′ E. 77° 17′ †	29.76	755.9				var.			6		10		var.					

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 9, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.97	761.1	67.3	19.6	80	s.			1		0			0	0	clear	Malaterre.
Algiers			29.89	759.2	70.2	21.2	51	w.			7		0			0	0	clear	Thève.
La Calle			29.88	759.0	73.4	23.0	78	s.			1		1			0	0	very fair	Fonfrède.
Tunis			29.86	758.5															Jacques.
Saida			30.00	762.1															Pérès.
Tebessa			29.91	759.8	78.8	26.0	23	se.			2		0			0	0	clear	St. Martin.
Geriville					69.4	20.8	17	ssw.			6		0			0	0	clear	Forfert.
Laghouat			29.98	761.4	75.2	24.0	48	ese.			2		0			0	0	clear	Abraham.
Biskra			29.92	760.0	83.8	28.8	43	ne.			1		5			c	0	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			30.50	774.7	55.8	13.2	53	se.	25	11.2			0			0.004	0.1	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.49	774.4	30.58	776.7	46.4	8.0	71	se.	6	2.7			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.26	743.3	29.80	756.8	66.2	19.0	60	sw.			3		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.05	737.8	29.78	756.5	71.6	22.0	47	ese.	3.8	1.7			10			0	0		Dr. Wierzbiski
Eperies	28.98	736.0	29.82	757.4	70.7	21.5	47	s.			3		10s;hz		n.	0	0		Julius Mikolik.
Gratz	28.54	724.8	29.75	755.6	65.1	18.4	65	sw.			3		5			0.224	5.7		Andreas Rospini.
Hermannstadt	28.47	723.0	29.82	757.5	75.0	23.9	41	se.			4		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.22	716.7	29.49	749.1	68.9	20.5	46	s.			3		9			0	0	covered	The Staff.
Lemberg	28.95	735.2	29.90	759.4	68.2	20.1	50	se.			3		3			0.012	0.3		Dr. T. Stanecki.
Neu Schmecks	26.54	674.1	29.82	757.4	59.4	15.2	52	sw.			3		8			0.177	4.5		Dr. V. von Szontagh.
Pola	29.69	754.1	29.77	756.1	63.0	17.2	81	sse.			3		4			0.575	14.6		I. R.Hydrographic Office.
Szathmar	29.39	746.5	29.85	758.1	76.5	24.7		sw.			3		3			0.094	2.4		Joseph Midlinszky, S. J.
Szegedin	29.54	750.3	29.81	757.1	72.7	22.6	56	se.			2		5			0	0		Karl Stancel.
Trieste	29.75	755.6	29.85	758.1	60.1	15.6	81	nw.			1		7			0.118	3.0		Royal Academy.
Vienna	29.02	737.0	29.71	754.5	68.7	20.4	50	s.			4		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.63	752.6	29.73	755.1	40.4	4.7	69	n.	20	8.9			7			0.060	1.5	squally	W. Boswell.
Armagh, Observatory	29.50	749.3	29.73	755.1	45.6	7.6	60	nne.	15	6.7			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.60	751.8	47.8	8.8	58	ne.	15	6.7			9					overcast	John Hartnup.
Bolton, Sharples	29.06	738.1	29.59	751.6	43.5	6.4	70	ene.	18	8.0			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.20	741.7	29.59	751.6	43.1	6.2	75	ne.			3		10			0.06	1.5	overcast	McLandsborough&Preston.
Bridgetown, Barbadoes	29.91	759.7	29.94	760.5	85.0	29.4	68	ne.			1		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.48	748.8	29.58	751.3	45.0	7.2	80	n.			0.6		10					overcast	John McLaren.
Chatham, School M. E.	29.39	746.5	29.52	749.8	45.7	7.6	94	ne.			1		10					raining	Corpl. G. A. Pickles.
Falmouth, Observatory	29.30	744.2	29.53	750.0	47.8	8.8	65	n.			1		10					overcast	The Staff.
Fort Napier, Natal	27.59	700.8	29.81	757.2	73.5	23.1	30	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	82.0	27.8	87	se.			2		4					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.65	753.1	29.69	754.1	42	5.6	66	e.			5		9			0.05	1.3	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	70.0	21.1	91	nw.			4		3					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.54	750.3	29.74	755.4	44.7	7.1	42	nne.			4		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.36	745.7	29.54	750.3	45.4	7.4	88	nne.			2		10					overcast	The Staff.
Guernsey	29.20	741.7	29.50	749.3	49.0	9.4	85	ene.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.51	749.5	29.54	750.3	46.9	8.3	77	n.	12	5.4			10					threatening.	The Staff.
Leicester, Museum	29.32	744.7	29.58	751.3	43.6	6.4	76	ne.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.03	762.7	30.11	764.8	61.6	16.4	91	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.14	765.5	78.0	25.6	65	ne.			3		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.06	738.1	29.58	751.3	42.7	5.9	77	nne.			2		10					gloomy	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.33	745.0	29.56	750.8	45.2	7.3	80	nne.			2		10					overcast	The Staff.
Plymouth	29.43	747.5	29.50	749.3	47.5	8.6	92	calm			0		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.68	753.9	29.78	756.4	42	5.6	93						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.90	759.4	29.96	761.0	63.4	17.4	78	sw.			1		1			blank	blank	blue sky	W. H. Lyne.
Sheffield	29.33	745.0	29.61	752.1	44.1	6.7	84	ne.			3		10			0.01	0.3	overcast	W. F. Cooper.
Silloth Rectory	29.64	752.8	29.67	753.6	45.2	7.3	67	ne.			4		7			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.61	752.1	45.0	7.2	65	ne.	10	4.5			10					overcast	W. O. Carlisle.
Truro, Royal Institution	29.49	749.0	29.54	750.3	47	8.3	85	n.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.70	754.4	29.73	755.1	40.5	4.7	78	nnw.	32	14.3			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.66	753.4	30.05	763.3	67.6	19.8	57	nw.	9.3	4.2		2 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.75	755.6	29.80	756.9	45	7.2	62	w.	22	9.8		0	5 ks		nw.	0.100	2.5	fair	H. J. Cundall, C. E
Chatham, N. B*	29.83	757.7	29.89	759.2	42	5.6	63	w.	13	5.8		2 ck	2 k	w.	w.	0.06	1.5	fair	G. A. Blair.
Cornwall, Ontario	29.98	761.5	30.18	766.6	38.4	3.6	56	n.			1	0	3 s			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	29.85	758.2	29.90	759.4	37.5	3.1		w.			4	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	29.98	761.5	30.00	762.0	33	0.6	100	nw.	35	15.6		0	2 s		nw.	inap.	inap.	clear	J. McWilliams.
Fort Garry, Manitoba*	29.02	737.1	29.87	758.7	38	3.3	65	ne.	9	4.0			10 ks		nw.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.92	760.0	29.99	761.7	42.1	5.6	50	nw.	18	8.0		2 k	0	nw.		0	0	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	29.61	736.8	30.13	765.3	42.0	5.6	100	n.	2	0.9			10 n			0.05	1.3	overcast	Jas. Grant.
Halifax, N. S*	29.75	755.6	29.88	758.9	52	11.1	72	w.	12	5.4		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.70	754.4	30.16	764.5	42.7	5.9	71	e.			2	8 cs	0	e.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.85	758.2	30.20	767.1	40	4.4	50	ne.	9	4.0			10 ks		nw.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.67	753.6	29.71	754.6	53.5	11.9	70	w.			5	4 k	0	w.		0	0	d. clouds	C. H. Rigby.
Montreal, Quebec*	30.00	762.0	30.21	767.3	37	2.8	58	n.	6	2.7		0	0			0.01	0.3	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.98	761.5	30.24	768.1	36.7	2.6	58	n.			1	2 c	0			0.06	1.5	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.48	748.8	30.20	767.1	37	2.8	53	e.	11	4.9		5 k	0	w.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.42	747.3	30.17	766.3	44.7	7.1	60	e.			2	2 c	0	w.		0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.43	747.5	30.13	765.3	40	7.8	100	ne.	7	3.1			10 n			0.01	0.3	threatening.	H Morgan.
Port Stanley, Ontario	29.46	748.3	30.11	764.8	45	7.2	74	ne.	5	2.2			10 n		sw.	0.02	0.5	light rain	M. Payne.
Quebec, Quebec*	29.76	755.9	30.12	765.0	36	2.2	56	w.	12	5.4		5 c	0	w.		0	0	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	29.77	756.1	30.25	768.3	39	3.9	53	n.	5	2.2		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B	29.90	759.4	29.96	761.0	44	6.7	37	nw.	15	6.7			8 k			0	0	cloudy	
St. John, N. B	29.76	755.9	29.93	760.2	44.0	6.7	60	w.	19	8.5		0	7 k			0.080	2.0	d. clouds	G. Murdock, C. E.
Saint John's, N. F	29.68	753.9	29.94	760.5	40	4.4	91	s.			2		10 n			inap.	inap.	raining	J. Higgins.
St. Pierre, N. F			29.88	758.9	41.0	5.0		sw.			4					0.12	3.0		The Commandant
Saugeen, Ontario*	29.40	746.7	30.14	765.5	36	2.2	89	ne.	16	7.2			10 ks			0	0	cloudy	
Stratford, Ontario	28.85	732.8	30.15	765.8	43.6	6.4	61	se.	4	1.8		3 cics	7 s			0	0	d. clouds	G. J. Macgregor, M A
Sydney, C. B*	29.67	753.6	29.73	755.1	44	6.7	86	sw.	18	8.0		0	8 ks		sw.	0.01	0.3	clearing	T. C. Hill, C. E.
Toronto, Ontario*	29.79	756.7	30.18	766.6	45	7.2	43	n.	5	2.2		2 ck	8 ks	nw.	nw.	0	0	cloudy	Magnetic Observatory.
Windsor, N. S	29.77	756.1	29.87	758.7	50.0	10.0	80	nw.	12	5.4		0	1 s			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.05	737.9	30.13	765.3	43.6	6.4	63	n.	5	2.2		9 k	0	w.		0.04	1.0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.89	759.2	29.96	761.0	47	8.3	61	nw.	8	3.6		2 ck	0	w.		0.11	2.8	fair	Lt. F. E. Wilmot, R. N.
London, Ontario	29.20	741.7	30.12	765.0	43.2	6.2	75	se.			2		10 n			0	0	overcast	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.	Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper	Clouds. Direction. Lower	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.		
CAPE COLONY.																		
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	65.0	18.3	83	w.	8.6	3.8	.....	2 c	0	.....	.....	0	0	clear
Springbok Fontein	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Burhie. J. T. Eustace.
CHINESE (*Sub-series*).																		
Sung-shu-chwang	25.27	641.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Guelny.
Tchang-kia-tchouang	29.84	757.8	29.95	760.6	63.1	17.3	54	ne.	.....	.....	2	8	.....	.....	0	0	.....	R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.72	754.9	29.74	755.5	64.8	18.2	96	nne.	8.3	3.7	.....	10	.....	.....	0.236	6.0	covered	M. Marc Dechevrens, S. J.
DANISH.																		
Copenhagen	29.62	752.3	29.67	753.5	62.4	16.9	64	se.	25	11	.....	8	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.54	750.4	29.56	750.9	59.0	15.0	77	wsw.	.....	.....	2	3	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.84	757.9	29.88	759.0	35.4	1.9	73	ene.	.....	.....	2	6	.....	.....	.....	.....	.....	S. Kleinschmidt.
Jacobshavn, Greenland	29.98	761.4	30.02	762.6	27.7	— 2.4	.....	e.	.....	.....	6	0	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	30.31	769.8	30.35	770.9	28.0	— 2.2	92	ne.	.....	.....	7	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.91	759.6	29.93	760.2	38.3	3.5	67	n.	20	9	.....	5	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.49	749.0	29.58	751.3	57.7	14.3	96	wsw.	.....	.....	2	9	.....	.....	.....	.....	thund'r storm	Loerer Oesterbol.
EGYPTIAN.																		
Cairo	29.83	757.6	.....	.....	78.3	25.7	.....	nne.	6.5	2.9	.....	0	0	.....	.....	0	0	Albert Ismalun.
FRENCH.																		
Agen, Normal School	29.12	739.7	29.76	756.0	55.8	13.2	90	w.	.....	.....	2	.....	kn	.....	w.	0.772	19.6	.....	M. Labroue, Director.
Alençon, Normal School	28.98	736.2	29.54	750.2	56.8	13.8	73	se.	.....	.....	1	.....	2	.....	nw.	0	0	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School	29.48	748.7	29.74	755.3	46.8	8.2	100	w.	.....	.....	8	.....	10	.....	sw.	.....	.....	raining.	M. Fénéon, Command't.
Avignon, Normal School	29.62	752.4	29.70	754.4	69.4	20.8	61	ssw.	.....	.....	1	.....	.....	.....	w.	0.12	3.	clouds	M. Giraud, Director.
Bar-sur-Seine	29.03	737.4	29.58	751.3	53.1	11.7	83	ssw.	.....	.....	2	0	8 kn	.....	sw.	0.386	9.8	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.26	743.3	29.53	750.0	50.7	10.4	74	w.	.....	.....	1	.....	10	.....	.....	0.260	6.6	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.69	728.8	29.57	751.0	57.0	13.9	99	s.	.....	.....	2	.....	n	.....	ssw.	0.138	3.5	.....	M. Gobin, Director.
Bordeaux, Observatory	29.41	747.0	29.67	753.6	52.7	11.5	69	wsw.	.....	.....	4	.....	8	.....	w.	0.268	6.8	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.02	737.1	29.56	750.8	54.5	12.5	95	sw.	.....	.....	1	.....	kn	.....	sw.	0.563	14.3	.....	M. Malet, Director.
Brest, Naval Observatory	29.32	744.7	29.56	750.9	44.6	7.0	85	nw.	.....	.....	2	.....	10	.....	nw.	0.079	2.0	raining	M. de Kermarée, Dir.
Caen, Normal School	29.41	746.9	29.48	748.8	54.3	12.4	74	sw.	.....	.....	1	.....	10	.....	sw.	0.04	1.	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.10	739.0	29.41	746.9	55.0	12.8	79	sse.	.....	.....	2	.....	10	.....	.....	0.264	6.7	covered	M. Jadot, Director.
Charleville, Normal School	28.91	734.3	29.42	747.2	50.7	10.4	64	e.	.....	.....	8	.....	10	.....	.....	0.12	3.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.28	718.4	29.61	752.1	58.3	14.6	55	sw.	.....	.....	1	.....	5	.....	sw.	0.732	18.6	½ covered	M. Alluard, Director.
Cluny, Normal School	28.79	731.2	29.63	752.6	57.2	14	73	s.	.....	.....	1	.....	8	.....	sw.	0.252	6.4	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.70	728.9	29.54	750.3	57.4	14.1	71	sw.	.....	.....	4	.....	n	sw.	sw.	0.031	0.8	.....	Dr. Coulet, Director.
Gap, Normal School	27.24	691.8	29.76	755.9	49.3	9.6	79	ne.	.....	.....	1	.....	10	.....	.....	0.79	20.	raining	M. Jeangirard, Director.
Gréasque, du Rhone	28.78	731.0	29.88	759.0	62.8	17.1	56	s.	.....	.....	3	.....	5	.....	se.	0.071	1.8	.....	M. Kiun, Director.
Grenoble, Normal School	28.97	735.7	29.72	754.8	51.8	11	73	nnw.	.....	.....	2	.....	10 n	.....	nnw.	.....	.....	raining	M. Ablard, Director.
Guéret, Normal School	28.00	711.2	29.58	751.2	50.0	10	74	w.	.....	.....	3	.....	kn	.....	se.	0.787	20.0	.....	M. Delorme, Dir.
Lamballe, Normal School	29.28	743.8	29.55	750.6	46.4	8	97	w.	.....	.....	2	.....	10	.....	w.	0.39	10.	covered	M. Ollitrault, Director.
Lescar, Normal School	29.20	741.7	29.77	756.1	50.0	10.0	74	wsw.	.....	.....	1	.....	10	.....	.....	0.260	6.6	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.43	747.6	29.54	750.2	43.9	6.6	71	nw.	.....	.....	1	.....	10	.....	nw.	0.760	19.3	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.61	726.7	29.65	753.0	56.7	13.7	71	s.	.....	.....	4	0	5 kn	.....	w.	0	0	cloudy	M. André, Director.
Mans, Normal School	29.16	740.7	29.47	748.4	56.8	13.8	68	sw.	.....	.....	1	.....	8	.....	s.	0.122	3.1	very cloudy.	M. Piboëu, Director.
Marseille, Observatory	29.45	748.1	29.72	754.8	64.4	18.0	66	s.	.....	.....	2	.....	7	.....	s.	0.083	2.1	.....	M. Stephan, Director.
Montlouis	24.64	625.9	29.48	748.9	41.9	5.5	78	w.	9.4	4.2	.....	.....	8	w.	.....	0	0	.....	M. Cave for Dr. Fines.
Montpellier, Normal School	29.53	750.1	29.65	753.2	72.3	22.4	55	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	28.77	730.8	29.55	750.5	54.3	12.4	79	ssw.	.....	.....	2	.....	kn	.....	ssw.	0.024	0.6	.....	M. Hasse, Director.
Nantes, Observatory	29.39	746.5	29.55	750.6	49.6	9.8	90	ssw.	.....	.....	0-1	.....	10	.....	sw.	.....	.....	rainy	M. Larocque, Director.
Perpignan, Observatory	29.59	751.5	29.69	754.2	66.2	19.0	48	e.	5.6	2.5	.....	.....	10	.....	s;sw.	0.146	3.7	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	20.90	530.9	.....	.....	29.5	— 1.4	.....	sw.	.....	.....	1	.....	fg	.....	sw.	0.134	3.4	foggy	M. Vaussenat, Director.
Privas, Normal School	28.61	726.8	29.67	753.5	58.6	14.8	72	se.	.....	.....	1	.....	10 k	se.	se.	0.98	25.	covered	M. Taillen.
Puy de Dôme Obs'y, Summit	24.70	627.4	.....	.....	35.2	1.8	100	wsw.	.....	.....	8	.....	5	.....	.....	0.736	18.7	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.55	750.5	29.58	751.3	53.6	12.0	72	w.	.....	.....	2	.....	10	.....	w.	0.63	16.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.39	746.6	29.61	752.0	54.0	12.2	74	sw.	.....	.....	3	.....	5	.....	sw.	0.031	0.8	cloudy	M. Brotler, Director.
Rodez, Normal School	27.06	702.6	29.82	757.4	47.1	8.4	59	nw.	.....	.....	2	.....	1	.....	w.	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.47	748.6	29.52	749.8	51.8	11	77	nw.	.....	.....	1	.....	10	e.	.....	0.220	5.6	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.37	746.1	29.54	750.2	51.8	11.0	81	w.	.....	.....	1	.....	10	.....	nw.	0.646	16.4	.....	M. Renou, Director.
Toulouse, Observatory	29.05	737.8	29.77	756.1	56.3	13.5	62	w.	.....	.....	3	.....	8	.....	.....	0.142	3.6	very cloudy	M. Baillaud, Director.
Tours	29.35	745.4	29.52	749.8	58.6	14.8	55	ssw.	.....	.....	1	.....	8	sw.	sw.	0.024	0.6	very cloudy	M. de Tastes.
Versailles, Observatory	29.04	737.5	29.53	750.0	49.6	9.8	79	nw.	.....	.....	1	.....	.....	.....	.....	0.453	11.5	.....	Dr. A. Bérigny, Director
Sub-series.																		
St. Martin du Hinx	29.67	753.5	29.82	757.3	53.4	11.9	78	w.	25.5	11.4	.....	0	9kn	.....	w.	0.421	10.7	.....	M. Cartier, Director.
GERMAN.																		
Ansbach	28.14	714.8	29.52	749.8	70.5	21.4	40	se.	.....	.....	4	.....	7	se.	.....	0.004	0.1	.....	Prof. Jnedt.
Bamberg	28.69	728.6	29.52	749.7	68.4	20.2	36	sw.	.....	.....	3	0	7 k	.....	sw.	0.020	0.5	.....	Prof. Dr. Hoh.
Berlin	29.45	747.9	29.58	751.4	68.0	20.0	53	s.	.....	.....	3	.....	10	.....	.....	0	0	.....	Meteorological Institute.
Breslau	29.23	742.5	29.76	755.8	68.9	20.5	50	se.	.....	.....	6	.....	10	.....	.....	0	0	.....	Royal University Obs'y
Carlsruhe	29.06	738.2	29.50	749.3	69.1	20.6	56	ne.	.....	.....	1	.....	10	se.	.....	0	0	.....	Albert Senz.
Cassel	28.78	730.9	29.49	749.0	72.3	22.4	51	s.	.....	.....	2	.....	7	s.	.....	0.350	8.9	thud'r storm	Dr. H. Möhl.
Frankfort-on-the-Main	.....	.....	29.49	749.0	71.2	21.8	44	se.	.....	.....	1	.....	10	.....	.....	0.004	0.1	.....	Physical Society.
Friedrichshafen	28.15	714.9	29.52	749.8	59.9	15.5	81	w.	.....	.....	3	.....	8	w.	.....	0.406	10.3	raining	Wilhelm, Chief Tel.
Hamburg	29.46	748.2	29.55	750.5	73.0	22.8	41	ese.	.....	.....	2	.....	7	.....	.....	0	0	.....	E. Preller.
Kiel	29.52	749.7	29.53	750.1	66.7	19.3	49	ese.	.....	.....	2	.....	6	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.12	739.7	29.52	749.8	76.1	24.5	33	ese.	.....	.....	2	.....	3	se.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.34	745.2	29.52	749.7	74.8	23.8	51	e.	.....	.....	1	.....	3	se.	.....	0	0	.....	Dr. Assmann.
Memel	29.97	761.3	30.02	762.5	66.2	19.0	79	sse.	.....	.....	5	5 c	0	.....	.....	.....	.....	.....	Issermann.
Munich	27.73	704.3	29.56	750.9	70.3	21.3	33	nw.	.....	.....	2	.....	8	w.	.....	0	0	.....	Central Station.
Neufahrwasser	29.85	758.3	29.87	758.7	71.6	22.0	37	se.	.....	.....	4	.....	10	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	28.98	736.0	29.50	749.2	68.7	20.4	55	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Dicknether.
Stuttgart	28.57	725.7	29.42	747.2	69.8	21.0	43	sw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	29.62	752.3	29.64	752.9	69.4	20.8	82	wnw.	.....	.....	3	0	8 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																		
Athens	29.61	752.1	29.98	761.6	72.5	22.5	.....	sw.	.....	.....	0.5	.....	1	.....	.....	0	0	hazy	Schmidt & Wourlisch.
INDIAN.																		
Kurrachee	29.63	752.7	29.68	753.9	84.5	29.2	80	wsw.	27.0	12.1	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.15	740.4	29.60	751.9	102.6	39.2	18	wsw.	17.0	7.6	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.72	755.0	29.76	755.9	86.7	30.4	70	nw.	18.0	8.0	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.88	708.1	29.65	753.2	99.8	37.7	17	nw.	17.0	7.6	.....	.....	5	.....	.....	0	0	d. clouds	
Trichinopoly	29.54	750.2	29.82	757.5	75.5	24.2	93	w.	1.0	0.4	.....	.....	10	ne.	ne.	0.22	5.6	drizzling	
Belgaum	27.19	690.5	29.07	753.6	84.6	29.2	52	s.	18.0	8.0	.....	.....	8	n.	.....	0.42	10.7	d. clouds	
Lahore	28.77	730.8	29.47	748.6	105.3	40.7	13	w.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.59	726.2	29.44	747.7	104.5	40.3	7	w.	10.0	4.5	.....	.....	2	.....	w.	0	0	.....	
Agra	28.98	736.0	29.51	749.5	109.1	42.8	9	nw.	4.0	1.8	.....	.....	1	.....	w.	0	0	d. clouds	
Nagpur	28.57	725.7	29.55	750.7	108.7	42.6	14	w.	14.0	6.3	.....	.....	4	w.	.....	0	0	d. clouds	
Jubbulpore	28.29	718.5	29.57	751.1	105.4	40.8	8	wnw.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.14	740.2	29.50	749.3	104.4	40.2	32	w.	12.0	5.4	.....	.....	0	.....	.....	0	0	hazy	
Allahabad	29.19	741.4	29.48	748.9	107.4	41.9	13	nw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.34	745.2	29.52	749.7	98.7	37.1	40	ne.	7.5	3.4	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.58	700.4	29.49	749.0	99.4	37.4	9	w.	10.4	4.6	.....	.....	0	.....	.....	0	0	.....	
Cuttack	29.53	750.0	29.61	752.0	91.1	32.8	56	wnw.	10.0	4.5	.....	.....	1	e.	.....	0	0	blue sky	
Calcutta, Alipore	29.54	750.2	29.56	750.7	85.2	29.6	79	ssw.	18.0	8.0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.54	750.2	29.65	753.2	75.3	24.1	81	e.	23.0	10.3	.....	.....	8	.....	w.	0.38	9.6	d. clouds	
Chittagong	29.03	752.6	29.72	754.9	82.7	28.2	84	s.	14.9	6.7	.....	.....	6	s.	.....	0	0	blue sky	
Sibsagar	29.44	747.7	29.78	756.3	73.0	22.8	90	ne.	2.0	0.9	.....	.....	10	w.	w.	0.34	8.6	d. clouds	
Jeypore	28.18	715.6	29.54	750.4	104.8	40.4	15	wnw.	12.7	5.7	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.24	717.3	.....	.....	100.5	38.1	25	e.	8	3.6	.....	3 c	2	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.93	760.2	86.3	30.2	70	sse.	6.0	2.7	.....	.....	2	ene.	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.45	748.1	29.85	758.1	61.5	16.4	69	sw.	3.8	1.7	.....	.....	10	.....	.....	1.177	29.9	.....	Prof. Giovanni Clodig.
Milan	29.29	744.0	29.80	757.0	57.2	14.0	80	se.	8.1	3.6	.....	.....	10	sse.	.....	0.165	4.2	.....	Prof. G.V.Schiapparelli.
Padua	29.73	755.2	29.84	757.9	64.0	17.8	62	se.	8.1	3.6	.....	.....	10	sse.	.....	0.870	22.1	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.84	732.6	29.74	755.3	58.5	14.7	77	nw.	6.3	2.8	.....	.....	7	nw.	.....	0.433	11.0	.....	Prof. F. F. Denza.
Genoa	29.63	752.5	29.82	757.4	56.3	13.5	92	se.	12.5	5.6	.....	.....	10	se.	.....	0.051	1.3	.....	Prof. G. M. Garibaldi
Mondovi	27.84	707.1	29.73	755.1	52.9	11.6	84	w.	.....	.....	2	.....	10	.....	.....	0.146	3.7	.....	Prof. D. C. Bruno.
Pesaro	29.81	757.1	29.85	758.3	60.8	16.0	85	se.	6.3	2.8	.....	.....	10	.....	.....	0.551	14.0	.....	Prof. Luigi Guidi.
Florence	29.60	751.8	29.85	758.2	68.0	20.0	50	s.	.....	.....	2	.....	10	.....	.....	0.114	2.9	.....	Prof. Costantino Pittei.
Leghorn	29.74	755.3	29.82	757.4	63.9	17.7	70	s.	1.3	0.6	.....	.....	9	wsw.	.....	0	0	.....	Prof. P. Monte.
Rome	29.77	756.2	29.94	760.5	68.4	20.2	57	ssw.	15.4	6.9	.....	.....	0	.....	.....	0.232	5.9	.....	Prof. P. Tacchini.
Lecce	29.70	754.3	29.95	760.6	72.9	22.7	49	se.	12.5	5.6	.....	.....	1	sw.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.08	738.5	29.95	760.7	68.4	20.2	74	se.	1.8	0.8	.....	.....	0	.....	.....	0.063	1.6	.....	Prof. D. Conti.
Cagliari	29.72	755.0	29.92	759.9	68.4	20.2	61	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.77	756.1	30.01	762.3	67.6	19.8	62	ne.	5.6	2.5	.....	.....	0	.....	.....	0.469	11.9	.....	Prof. G. Cacciatore.
Syracuse	29.88	758.9	29.92	760.0	70.7	21.5	69	e.	2.5	1.1	.....	.....	0	.....	.....	0.118	3.0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.50	749.2	30.02	762.4	62.6	17.0	80	s.	5.6	2.5	.....	.....	4	sw.	.....	0.071	1.8	.....	Prof. F. Brioschi.
Stelvio	21.94	557.2	.....	.....	31.6	— 0.2	100	w.	.....	.....	3	.....	10	.....	.....	1.969	50.0	covered	Prof. P. F. Denza.
Valdobbia	21.95	557.4	.....	.....	35.6	2.0	72	e.	.....	.....	2	.....	10	.....	.....	11.024	280.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.89	759.2	29.92	760.1	50.0	10.0	80	calm	.....	.....	0	0	4 ck	.....	w.	0	0	fair	H. Hattori.
Awomori	29.86	758.4	29.90	759.4	47.2	8.4	85	n.	2.5	1.1	.....	0	2 s	.....	.....	0	0	fair	K. Ogawa.
Hamamatsu	30.03	762.7	30.06	763.4	59.8	15.4	82	calm	.....	.....	0	.....	10 s	.....	.....	1.223	31.3	overcast	
Kagoshima	29.75	755.7	29.78	756.3	64.5	18.1	97	calm	.....	.....	0	.....	10 n	.....	.....	4.259	108.1	raining	G. Miyanonaza.
Kioto	29.78	756.5	29.96	760.9	63.1	17.3	67	e.	5.6	2.5	.....	.....	10 s	.....	.....	0.227	5.8	cloudy	M. Tojima.
Miasaka	29.78	756.4	29.81	757.1	65.4	18.6	98	se.	.....	.....	2	.....	10 n	.....	se.	1.650	41.9	raining	K. Masusaki.
Miyako	29.84	757.9	29.95	760.7	51.5	10.8	77	w.	4.4	2.0	.....	.....	10 s	.....	.....	0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.53	750.0	29.73	755.1	64.3	17.9	95	se.	7.5	3.3	.....	.....	10 s	.....	.....	0.740	18.8	.....	S. Takehayashi.
Niigata	29.94	760.5	29.98	761.7	54.3	12.4	77	nne.	6.4	2.9	.....	10 cs;ck	0	.....	.....	0.159	4.0	cloudy	M. Morita.
Nobiru	29.95	760.6	29.96	761.0	52.6	11.4	96	nnw.	1.3	0.6	.....	10 s	.....	.....	nnw.	0.045	1.2	covered	H. Midzushina.
Numazu	30.02	762.4	30.05	763.3	60.8	16.0	68	ssw.	.....	.....	6	0	4 ks	.....	.....	0.177	4.5	fair	R. Kaneda.
Osaka	29.94	760.5	29.96	760.9	62.9	17.2	76	ne.	3.8	1.7	.....	.....	10 s	.....	.....	0.130	3.3	cloudy	H. Omura.
Tokei Obs'y, Yeddo	29.91	759.8	29.99	761.7	58.9	14.9	68	s.	12.1	5.4	.....	.....	10 s	.....	.....	0.072	1.8	overcast	The Staff.
Wakayama	29.88	758.9	29.93	760.1	64.7	18.2	66	s.	10.0	4.5	.....	.....	10 n	.....	s.	0.306	7.8	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.80	756.9	29.99	761.7	77.1	25.1	84	nne.	16.5	7.4	.....	3ck;cs	6 ks;k	nnw.	nne.	2.74	69.6	cloudy	The Staff.
MEXICAN.																			
Guanajuato	23.66	601.0	29.88	759.0	61.9	16.6	71	ne.	inap.	inap.	.....	3 c	6 kn	w.	sw.	0.024	0.6	foggy	Prof. Vicente Fernandez.
Leon	24.29	617.0	29.95	760.7	58.6	14.8	79	nnw.	2.0	0.9	.....	6 c	ck	w.	.....	inap.	inap.	cloudy	Prof. M. Leal.
Mazatlan	29.66	753.4	29.92	760.0	69.0	20.6	97	e.	1.6	0.8	.....	2 cs	0	.....	.....	0	0	misty	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	63	17.2	78	ne.	11.1	5.0	.....	0	0	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.48	748.9	29.48	748.9	50.7	10.4	.....	n	.....	.....	4	.....	.....	.....	.....	0.240	6.1	.....	
Groningen	29.48	748.8	29.54	750.2	59.2	15.1	.....	se.	.....	.....	1	.....	.....	.....	.....	0.331	8.4	.....	
Helder	29.54	750.3	29.54	750.3	51.1	10.6	.....	nw.	.....	.....	1	.....	.....	.....	.....	0.484	12.3	.....	
Hellevoetsluis	29.50	749.2	29.50	749.2	51.4	10.8	96	nne.	.....	.....	2	.....	.....	.....	.....	0.472	12.0	.....	
Utrecht	29.47	748.4	29.51	749.6	56.8	13.8	89	ene.	.....	.....	3	.....	8	.....	.....	0.417	10.6	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	758.0	.....	.....	81.9	27.7	84	nne.	0	0	.....	.....	5	.....	.....	0	0	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.45	748.1	29.52	749.7	57.2	14.0	57	sse.	9	4	.....	.....	10	.....	.....	0.185	4.7	raining	
Brono	29.74	755.3	29.78	756.3	62.6	17.3	36	s.	.....	.....	6	.....	3	.....	.....	0	0	.....	
Christiania	29.62	752.4	29.76	756.0	65.7	18.7	27	se.	31	14	.....	.....	4	.....	.....	0	0	.....	
Gjesvær	29.94	760.4	29.96	761.0	48.0	8.9	.....	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	
Lodingen	29.65	758.1	29.89	759.3	47.1	8.4	53	nne.	.....	.....	0–2	.....	2	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	30.24	768.2	30.40	772.2	58.6	14.8	76	ene.	3.8	1.7	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.96	735.5	29.96	760.9	57.9	14.4	55	wsw.	8.7	3.9	.....	.....	8	.....	.....	0.236	6.0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.06	763.4	30.15	765.7	61.5	16.4	72	w.	.....	.....	.....	.....	10	.....	.....	0.220	5.6	.....	Capt. D. A. de Ounha.
Lisbon, Observatory	29.71	754.5	30.04	763.1	57.0	13.9	55	nnw.	19.2	8.6	.....	.....	0	.....	.....	0.386	9.8	.....	The Staff.
Ponta Delgada, Azores	30.32	770.1	30.39	771.9	61.9	16.6	53	ne.	6.3	2.8	.....	.....	4	.....	.....	0.007	1.7	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Serra da Estrella	24.73?	628.3?	29.52?	749.9?	33.6	0.9	96	nw.	9.4	4.2	.....	.....	10	.....	.....	1.032	26.2	snow & fog	
RUSSIAN.																			
Akmolinski	28.90	734.0	29.94	760.4	67.1	19.5	16	ne.	9	4	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.85	758.2	29.87	758.7	44.6	7.0	82	wsw.	9	4	.....	.....	9 ks	.....	.....	0.118	3.0	.....	Capt. Sseliwerstow.
Ashurada	30.11	764.9	30.02	762.5	68.0	20.0	85	w.	22	10	.....	8 ck	0	.....	.....	0	0	.....	
Astrakhan	30.30	769.6	30.22	767.5	75.7	24.3	28	ese.	16	7	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.15	765.8	30.10	764.6	71.2	21.8	35	nne.	13	6	.....	1 cs	0	.....	.....	0	0	.....	
Barnaul	29.58	751.2	30.07	763.8	55.2	12.9	24	nw.	2	1	.....	.....	9	.....	.....	0	0	light clouds	Meteorological Obs'y
Bielosersk	29.67	753.6	30.13	765.3	61.2	16.2	51	wsw.	11	5	.....	0	5 k	.....	.....	0	0	.....	
Dorpat	29.97	761.3	30.21	767.4	61.9	16.6	48	sse.	4	2	.....	0	2 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.25	743.0	30.20	767.0	67.6	19.8	31	wsw.	18	8	.....	8 c	0	.....	.....	0	0	solar corona	Meteorological Obs'y
Elisawetgrad	29.53	750.1	29.97	761.1	73.9	23.3	55	ese.	13	6	.....	.....	9 ks;n	.....	.....	0.469	11.9	.....	
Irkutsk	28.37	720.7	30.03	762.8	44.4	6.9	54	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	
Kasalinsk	29.33	744.9	29.50	749.4	74.8	23.8	30	ne.	18	8	.....	0	5 k	.....	.....	.....	.....	.....	
Kasan	29.99	761.8	30.25	768.3	70.3	24.6	29	wsw.	4	2	.....	.....	0	.....	.....	0	0	.....	Observatory.
Kem	29.85	758.1	29.90	759.4	48.2	9.0	71	w.	22	10	.....	.....	10 k	.....	.....	0	0	hvy. clouds	
Kertch	29.94	760.4	29.96	761.0	63.9	17.7	71	n.	7	3	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	29.34	745.2	29.95	760.7	71.1	21.7	64	ese.	7	3	.....	0	7 ks	.....	.....	0.382	9.7	.....	Observatory.
Koslov	29.72	754.8	30.23	767.9	75.0	23.9	41	s.	13	6	.....	0	2 s	.....	.....	0	0	.....	
Libau	30.01	762.3	30.04	762.9	66.0	18.9	45	se.	13	6	.....	.....	3	.....	.....	0	0	.....	E. Quaas.
Lugan	29.87	758.6	30.04	763.1	77.0	25.0	29	ese.	45	20	.....	.....	8	.....	.....	0	0	light clouds	Meteorological Obs'y.
Moscow	29.71	754.7	30.17	766.2	72.5	22.5	52	calm	0	0	.....	0	7 ks	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.91	759.8	29.99	761.7	73.8	23.2	67	calm	0	0	.....	6 cs	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.62	752.3	29.71	754.5	32.0	0.0	94	e.	9	4	.....	.....	10	.....	.....	0	0	foggy	Iwanow.
Pekin, China	29.76	755.9	29.90	759.5	62.8	17.1	72	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.60	751.8	29.94	760.4	73.2	22.9	28	w.	4.5	2.0	.....	0	6 kn	.....	.....	0.126	3.2	.....	
Petrozavodsk	29.86	758.5	30.06	763.5	46.6	8.1	74	nw.	27	12	.....	.....	10	.....	.....	0	0	light clouds	Dr. Bergmann.
Pinsk	29.54	750.4	30.03	762.8	64.0	17.8	57	ene.	18	8	.....	7 cs	0	.....	.....	0	0	.....	
Poti	29.93	760.2	29.90	761.0	64.0	17.8	94	wsw.	4	2	.....	0	7 ks	.....	.....	0	0	.....	
St. Petersburg	30.22	767.5	30.24	768.1	53.1	11.7	58	wnw.	9	4	.....	0	1 ks	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.47	697.6	29.82	757.3	76.8	24.9	30	sw.	3.4	1.5	.....	0	3 k	.....	.....	0	0	.....	
Semipalatinsk	29.43	747.5	30.08	764.0	61.7	16.5	24	n.	9	4	.....	.....	2	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.78	756.4	30.00	762.1	57.2	14.0	82	nw.	7	3	.....	.....	9 n	.....	.....	0.028	0.7	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.71	754.5	30.15	765.8	68.5	20.3	50	e.	11	5			10			0	0		
Tashkend	28.27	718.0	29.89	759.2	66.9	19.4	43	ne.	18	8		0	6 ks			0	0		Terch, A. M.
Tiflis	28.61	726.6	29.96	761.0	79.2	26.2	35	e.	9	4		0	4ks			0	0		Physical Observatory.
Vernoe	27.21	691.1	29.61	752.0	68.4	20.2	27	e.	4	2		0	8 n			0	0		
Viatka	29.47	748.6	30.08	764.1	73.4	23.0	27	sw.	11	5			4			0	0		
Warsaw	29.48	748.8	29.89	759.2	70.2	21.2	41	sse.	22	10		9 cs	0			0.004	0.1	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.82	757.5	30.12	765.1	35.8	2.1	85	w.	4	2			7			0.008	0.2	snowing	M. O. Marks.
SCOTTISH.																			
Monach Lt			29.86	758.4	40	4.4	91	ne.			6	3	0	ne.		0	0	clear	J. Youngclause
North Unst			29.71	754.6				n.			4	2	4	n.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.67	753.5	29.77	756.2	68.0	20.0	48	sw.	5.6	2.5		0	3			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.82	757.5	29.88	759.0	53.6	12.0	64	nw	3.8	1.7			10			0.008	0.2	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.85	681.9	29.82	757.3	50.7	10.4	53	w.	11.9	5.3			9			0.307	7.8	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.63	701.7	29.86	758.4	53.4	11.9	71	sw.	17.4	7.8			10			0.555	14.1	covered	The Staff.
Murcia, Met. Obs'y	29.67	753.6	29.80	756.9	72.1	22.3	46	wnw.	6.5	2.9		3	4	se.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.01	736.8	29.90	759.4	43.7	6.5	87	e.	24.2	10.8		8 kn	4 n	e.	w.	0.260	6.6	covered	Prof. L. G. Fradas.
Santiago, Met. Obs'y	29.03	737.3	29.93	760.3	50.7	10.4	65	nw.	13.5	5.6			7			0.169	4.3	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761.8	30.06	763.5	73.1	22.8	74	ene.	2.2	1.0		c;cs	k	w.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.91	759.8	84.7	29.3	81	ese.	14.8	6.6		0	2 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	761.1	30.06	763.6	62.4	16.9	70	w.	14.0	6.3		0	4		w.	0.004	0.1		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.7	30.04	763.0	82.0	27.8	86	se.	5.6	2.5		0	4 kn		se.	0	0		Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.04	763.1	30.08	764.1	53.6	12.0	56	sw.			2		0			0	0		
Umea	30.04	763.1	30.10	764.4	53.8	12.1	68	sw.			2		0			0	0		
Hernosand	29.98	761.5	30.03	762.8	53.2	11.8	56	s.			2		0			0	0		
Stockholm	29.89	759.3	30.07	763.8	60.3	15.7	34	sse.			4		5			0	0		
Wisby	29.91	759.6	29.97	761.1	61.2	16.2	47	ese.			6		0			0	0		
Sub-series.																			
Upsala	29.92	760.0	30.01	762.2	63.3	17.4	28	sse.	19.7	8.8			4	ssw		0	0		S. G. Fineman.
SWISS.																			
Geneva	28.30	718.9	29.74	755.4	50.9	10.5	73	ssw.			5		10			0.181	4.6	raining	The Observatory.
TURKISH.																			
Constantinople			30.00	762.1	66.4	19.1	62	ne.	3	1.5			2		sw.	0	0		The Observatory.
Valona			30.04	763.1	70.7	21.5		nw.			1		2			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.94	760.4	70.7	21.5	62	w.			1					0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.71	678.4			69	20.6	57						3 n		sw.				Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.07	763.8	30.15	765.8	51	10.6	59	ne.	8	3.6			10 s		nw.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.50	749.3	30.16	766.1	36	2.2	61	e.	11	4.9		9 cs	0	se.		0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.96	634.0	29.78	756.4	30	— 1.1	61	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.12	688.8	29.96	761.0	43	6.1	68	sw.	15	6.7		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.00	736.6	30.17	766.3	70.0	21.1	82	se.	6	2.7		2 cs	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.03	762.7	30.04	763.0	56	13.3	83	ne.	8	3.6		0	hz.			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.00	762.0	30.19	766.8	68	20.0	78	se.	2	0.9		9 k	0	s.		0	0	cloudy	John Healy.
Baltimore, Maryland	30.03	762.7	30.08	764.0	66	18.9	63	ne.	6	2.7		hz.	0			0	0	clear	Geo. W Feiger.
Barnegat City, New Jersey	30.04	763.0	30.06	763.5	56.0	13.3	74	e.	17	7.6		0	hz.			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.63	752.6	29.65	753.1	30.0	— 1.1		n.	15	6.7			10 n			0.03	0.8	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.14	714.7	29.70	754.4	47.0	8.3	96	ne.	15	6.7			10 s		ne.	0.11	2.8	threatening.	A. Pritchard.
Benton, Fort, Montana	27.16	689.9	29.96	761.0	45	7.2	71	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.69	677.9	29.87	758.7	45	7.2	100	ne.	1	0.4			10 n			0.32	8.1	light rain	T. Gibson.
Bismarck, Dakota	28.04	712.2	29.83	757.7	43	6.1	68	w.	1	0.4		5 c	0			0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.05	763.3	30.08	764.0	53	11.7	61	n.	8	3.6		5 ck	2 s	n.	n.	0.01	0.3	fair	J. T. Elker.
Boise City, Idaho	27.15	689.6	29.99	761.7	50	10.0	80	nw.	4	1.8		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.95	760.7	30.11	764.8	55.0	12.8	62	w.	5	2.2			10 s			0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.75	755.6	29.79	756.7	75.7	24.3	86	s.	9	4.0		2 c	0	w.		0	0	clear	M. McCarty.
Buffalo, New York	29.39	746.5	30.13	765.3	44	6.7	72	n.	8	3.6			10 s		w.	inap.	inap.	cloudy	W. Finn.
Buford, Fort, Dakota	27.93	709.4	29.91	759.7	38	3.3	72	se.	1	0.4		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.88	758.9	30.18	766.6	40.0	4.4	48	n.	11	4.9			10 s		w.	0	0	cloudy	D. N. Farnell.
Cairo, Illinois	29.56	750.8	29.96	761.0	69.1	20.6	65	sw.	10	4.5		2 c	0	sw.		0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.07	763.8	30.09	764.3	69	20.6	51	s.	20	8.9		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.00	762.0	30.03	762.7	65.0	18.3	81	e.	4	1.8		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.33	745.0	30.01	762.2	46.5	8.1	96	calm			0		fg.			0.22	5.6	dense fog	J. J. McLean.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	74	23.3	71	e.	11	4.9		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.13	765.3	30.18	766.6	71.0	21.7	84	sw.	3	3.1		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.30	744.2	30.14	765.5	67.0	19.4	70	s.	6	2.7		6 cs	sk.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.32	744.7	30.13	765.3	63.5	17.5	87	w.	2	0.9		3 cs	fg.	w.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.74	603.0	29.61	752.1	34.3	1.3	85	n.	12	5.4			10 n			0.78	19.4	light snow	E. McGovern.
Chicago, Illinois	29.20	741.7	29.90	759.4	47.2	8.4	83	e.	8	3.6			10 ks			0.77	19.6	cloudy	John Laurens.
Chincoteague, Virginia	30.02	762.5	30.04	763.0	63	17.2	84	s.	11	4.6		hz.	hz.			0	0	dense haze	C. F. Dickens.
Cincinnati, Ohio	29.36	745.7	30.01	762.2	67.0	19.4	63	s.	2	0.9		7 k	0	sw.		0	0	fair	L. Dunne.
Cleveland, Ohio	29.33	745.0	30.06	763.5	50.6	10.3	40	ne.	8	3.6		4ck;cs	0	sw.		inap.	inap.	fair	J. B. Newlin.
Coleman City, Texas	28.09	713.5	29.88	758.9	62	16.7	90	se.	3	1.3			10 n			0.27	6.9	light rain	T. J. Kenan.
Columbus, Ohio	29.10	740.7	30.00	762.0	58	14.4	64	n.	4	1.8		1 k	0	w.		0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	27.90	708.6	29.80	756.9	61.0	16.1	90	e.	5	2.2			10 s		sw	0.31	7.9	cloudy	J. McGlone.
Davenport, Iowa	29.13	739.9	29.77	756.1	53	11.7	86	e.	9	4.0			10 s		se.	0.21	5.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.11	637.8	29.83	757.7	58	14.4	57	nw.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.26	717.8	30.01	762.2	50	10.0	74	sw.	4	1.8		5 ck	0			0.01	c.3	fair	D. Moore.
Deadwood, Dakota	25.24	641.1	29.76	755.9	33	0.6	100	calm	0	0			10 n			0.23	5.8	light snow	F. Willson.
Delaware Breakwater, Del.	30.01	762.2	30.03	762.7	59	15.0	87	n	7	3.1		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.34	618.2	29.50	749.3	44.0	6.7	75	s.	2	0.9		0	7 s			2.01	51.1	fair	F. M. Neal.
Des Moines, Iowa	28.81	731.8	29.70	754.4	51	10.6	93	e.	6	2.7		5 cs	5s	w.	e.	2.91	73.9	cloudy	F. W. Conrad.
Detroit, Michigan	29.38	746.2	30.08	764.0	45.0	7.2	83	n.	11	4.9			10 s			0.40	10.2	cloudy	E. R. Brace.
Dodge City, Kansas	27.03	686.5	29.58	751.3	50	10.0	36	w.	12	5.4		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.12	739.6	29.82	757.4	49.8	9.9	86	e.	8	3.6			10 s			0.12	3.0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.23	742.4	29.98	761.5	38	3.3	72	ne.	11	4.9			10 s		ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.00	736.6	29.80	756.9	73.1	22.8	70	se.	5	2.2			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.21	640.3	29.89	759.2	44	6.7	80	sw.	3	1.3			10 s		sw.	0.06	1.5	cloudy	H. R. Boynton.
Eastport, Maine	29.90	759.4	29.97	761.2	45.0	7.2	53	nw.	22	9.8		4 cs	6 s	w.	w.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.01	686.0	29.71	754.6	52	11.1	61	sw.	8	3.6		7 c	0	sw.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.21	665.7	29.85	758.2	49.0	9.4	22	w.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.37	746.0	30.09	764.3	51	10.6	72	ne.	4	1.8			10 s		nw.	0.09	2.3	cloudy	C. A. Shaw.
Escanaba, Michigan	29.43	747.5	30.09	764.3	38.5	3.6	59	e.	6	2.7			10 s		s.	0	0	cloudy	George Heathcote.
Galveston, Texas	29.87	758.7	29.91	759.7	75	23.9	90	s.	16	7.2		2 k	7 ks		s.	inap.	inap.	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.34	745.2	30.00	762.0	48.0	8.9	86	ne.	16	7.2			10 n			0.13	3.3	light rain	J. E. Mueller.
Grant, Fort, Arizona	25.18	639.6	29.79	756.7	43	6.1	37	n.	2	0.9		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.16	766.1	30.18	766.6	64	17.8	93	sw.	12	5.4		3 c	sk.			0	0	clear	R. M. Crawford.
Helena, Montana	25.76	654.3	29.93	760.2	50	10.0	80	sw.	8	3.6		7 c	0			inap.	inap.	fair	N. C. Smith.
Huron, Dakota	28.28	718.3	29.63	752.6	47.8	8.8	93	e.	19	8.5			10 s			0.66	16.8	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.15	740.4	29.94	760.5	69.0	20.6	57	sw.	4	1.8		1 k	0	sw.		0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.82	757.4	29.85	758.2	73.5	23.1	88	s.	12	5.4		0	5 k		s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.70	729.0	29.85	758.2	66	18.9	78	sw.	7	3.1			10 n		w.	0.37	9.4	light rain	D. J. Carr.
Jacksonville Florida	30.15	765.8	30.19	766.8	72.2	22.3	71	se.	3	1.3		0	0			0	0	clear	J. W. Smith.

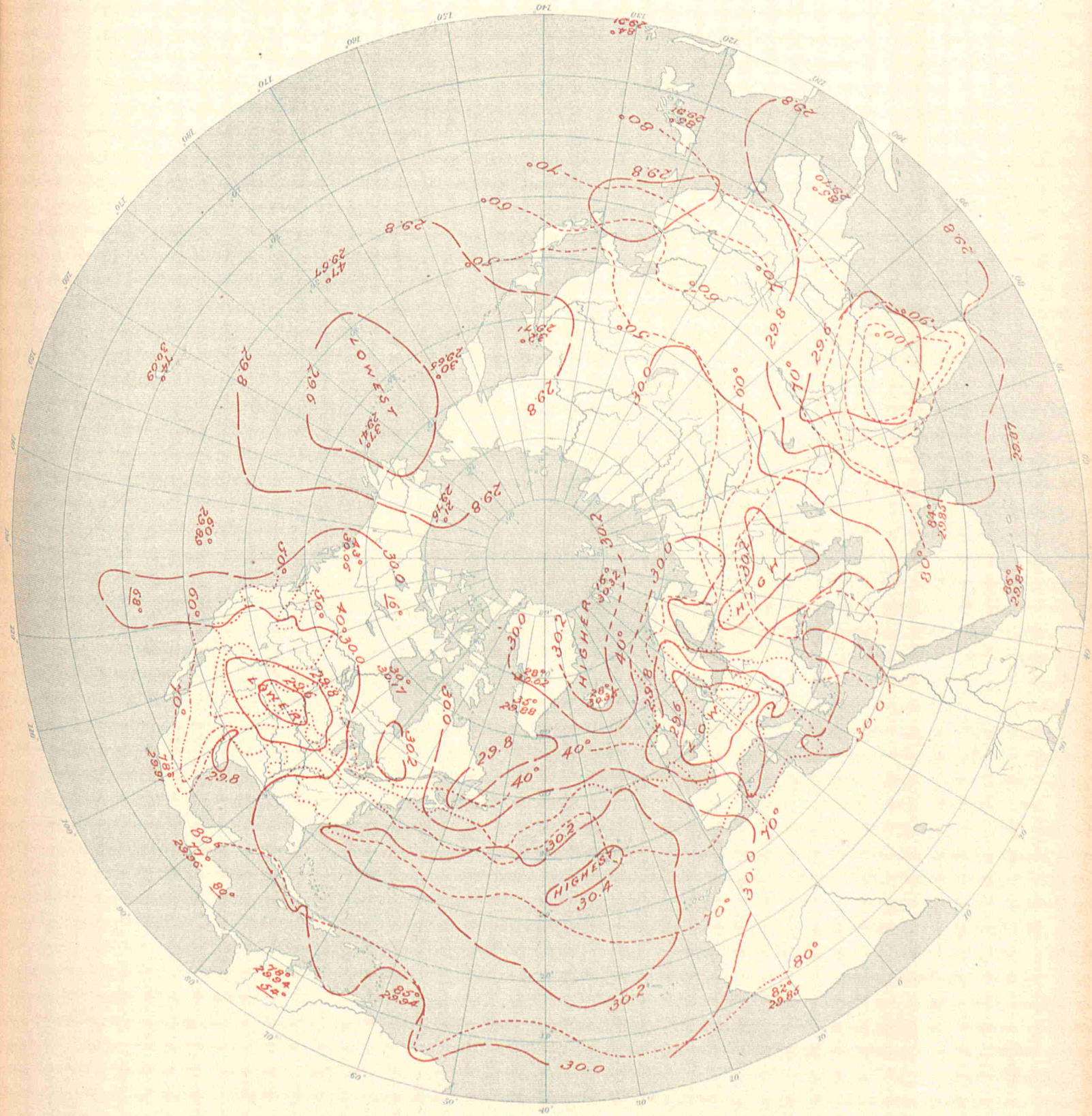
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Velocity.		Force.	Clouds. Amount and kind. Upper.	Lower.	Direction. Upper.	Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.42	696.5	29.87	758.7	41	5.0	67	calm	0	0	.....	6 k	0	.....	.....	0.10	2.5	fair	W. B. Lamar.
Keokuk, Iowa	29.11	739.4	29.76	755.9	60.0	15.6	81	se.	5	2.2	.....	.....	10 s	.....	se.	0.13	3.3	cloudy	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	80.0	26.7	54	e.	12	5.4	.....	0	4 ks	.....	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.15	765.8	30.17	766.3	68	20.0	78	w.	17	7.6	.....	0	hz.	.....	.....	0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.11	739.4	30.13	765.3	63.2	17.3	76	calm	0	0	.....	2 k	0	sw.	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.09	738.9	29.85	758.2	46	7.8	76	e.	4	1.8	.....	.....	10 n	.....	.....	0.27	6.9	light rain	S. C. Emery.
Leavenworth, Kansas	28.78	731.0	29.66	753.4	64	17.8	78	s.	6	2.7	.....	.....	10 ks	.....	s.	0.11	2.8	cloudy	A. W. Browne.
Lewiston, Idaho	29.15	740.4	29.99	761.7	55.0	12.8	86	calm	0	0	.....	0	5 s	.....	.....	0	0	fair	W. Bell.
Little Rock, Arkansas	29.61	752.1	29.92	760.0	70	21.1	84	s.	8	3.6	.....	0	6 k	.....	sw.	0	0	fair	W. U. Simons.
Los Angeles, California	29.61	752.1	30.01	762.2	49	9.4	93	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.41	747.0	29.96	761.0	70	21.1	68	s.	4	1.8	.....	0	sk.	.....	.....	0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.38	746.2	30.06	763.5	70	21.1	66	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.49	749.0	30.14	765.5	38.8	3.8	65	e.	20	8.9	.....	.....	10 s	.....	se.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.18	766.6	30.19	766.8	67.0	19.4	90	sw.	8	3.6	.....	2 c	0	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.56	649.2	29.97	761.2	50	10.0	55	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.36	745.7	30.08	764.0	35	1.7	69	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	E. H. Thompson.
Memphis, Tennessee	29.65	753.1	29.98	761.5	71	21.7	76	se.	8	3.6	.....	0	4 s	.....	s.	0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.20	741.7	29.94	760.5	45	7.2	83	se.	10	4.5	.....	.....	10 s	.....	se.	0.08	2.0	threatening	W. Line.
Missoula, Fort, Montana	26.73	678.9	30.03	762.7	48	8.9	58	n.	3	1.3	.....	5 k	0	.....	.....	0	0	fair	J. H. Young.
Mobile, Alabama	30.05	763.3	30.09	764.3	73	22.8	94	se.	4	1.8	.....	7 cs	0	sw.	.....	0	0	fair	C. A. Read.
Montgomery, Alabama	29.87	758.7	30.10	764.5	68.5	20.3	81	sw.	1	0.4	.....	7 cs	0	w.	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.85	732.8	29.83	757.7	42	5.6	82	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessaut.
Mt. Washington, N. H.	23.64	600.4	29.82	757.4	14.0	—10.0	83	nw.	60	26.8	.....	7 cs	0	nw.	.....	0.04	1.0	fair	S. W. Beall.
Nashville, Tennessee	29.47	748.5	30.04	763.0	65.5	18.6	59	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.97	761.2	30.09	764.3	56	13.3	45	n.	11	4.9	.....	2 ck	hz.	w.	.....	0.05	1.3	clear	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.11	764.8	61	16.1	44	n.	4	1.8	.....	3 c	hz.	n.	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	73.0	22.8	90	s.	7	3.1	.....	1 cs	4 k	.....	s.	0	0	fair	H. C. Smyth.
New York, New York	29.93	760.2	30.11	764.8	59	15.0	42	ne.	14	6.3	.....	0	fg.	.....	.....	0.11	2.8	clear	G. E. Franklin.
Norfolk, Virginia	30.06	763.5	30.09	764.3	70	21.1	57	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	26.54	674.1	29.41	747.0	46.6	8.1	83	w.	4	1.8	.....	0	6 s	.....	w.	0.94	23.9	fair	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	42.0	5.6	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.42	721.9	29.58	751.3	61.2	16.2	87	se.	12	5.4	.....	0	0	.....	.....	1.38	35.1	clear	A. Pollak.
Ooglaamie, Alaska	29.74	755.4	29.76	755.9	20.8	— 6.2	100	nne.	19	8.5	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.82	757.4	30.15	765.8	42.5	5.8	74	ne.	8	3.6	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.38	746.2	29.93	760.2	71.5	21.9	87	s.	2	0.9	.....	0	8 ks	.....	sw.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	76.0	24.4	82	se.	6	2.7	.....	4 c	5 k	w.	se.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.99	761.7	30.09	764.3	61	16.1	84	ne.	15	6.7	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.47	443.7	29.53	750.0	11	—11.7	87	w.	22	9.8	.....	0	5 ks	.....	w.	0.20	5.1	fair	H. Hall.
Pioche, Nevada	23.99	609.3	29.91	759.7	40.0	4.4	54	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.23	742.4	30.03	762.7	56.0	13.3	66	n.	1	0.4	.....	3 k	0	n.	.....	0	0	clear	W. A. Reid.
Poplar River, Montana	27.76	705.1	29.88	758.9	.....	.....	.....	sw.	.....	.....	4	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.42	747.3	30.10	764.5	38.0	3.3	89	n.	8	3.6	.....	.....	10 n	.....	.....	0.04	1.0	light rain	M. H. Perry
Portland, Maine	30.06	763.5	30.11	764.8	50	10.0	32	n.	11	4.9	.....	.....	10 s	.....	n.	0	0	cloudy	W. W. Eichelberger
Portland, Oregon	29.98	761.5	30.05	763.3	46.0	7.8	86	nw.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	70	21.1	79	sw.	14	6.3	.....	6 c	hz.	.....	.....	0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.70	627.4	29.80	756.9	33.0	0.6	61	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	30.07	763.8	30.10	764.5	53	11.7	48	nw.	11	4.9	.....	0	9 s	.....	nw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.10	764.5	71	21.7	76	e.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.67	753.6	30.02	762.5	49	9.4	100	nw.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	J. R. Williams.
Rochester, New York	29.50	749.3	30.16	766.1	42	5.6	78	ne.	7	3.1	.....	.....	10 n	.....	.....	inap.	inap.	light rain	E. W. McGann.
Roseburg, Oregon	29.50	749.3	30.05	763.3	49.8	9.9	86	calm	0	0	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.97	761.2	30.05	763.3	50.5	10.3	86	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.26	743.2	29.85	758.2	69.2	20.7	84	s.	14	6.3	.....	7c;cs	sk.	.....	.....	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.55	750.6	29.58	751.3	29	— 1.7	100	se.	3	1.3	.....	.....	10 n	.....	.....	0.09	2.3	light rain	A. P. Leavitt.
St. Paul, Minnesota	28.93	734.8	29.77	756.1	45.5	7.5	87	se.	21	9.4	.....	.....	10 n	.....	se.	0.56	14.2	light rain	P. F. Lyons.
St. Vincent, Minnesota	28.98	736.1	29.84	757.9	41	5.0	82	nw.	6	2.7	.....	10 cs	0	.....	.....	0	0	cloudy	O. B. Dilley.
Salt Lake City, Utah	25.57	649.5	29.89	759.2	48	8.9	52	calm	0	0	.....	7 k	0	sw.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.10	740.7	29.86	758.4	71	21.7	84	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	J. H. Davis.
San Diego, California	29.89	759.2	29.96	761.0	53.0	11.7	90	n.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	A. C. Dobbins.
Sandy Hook, New Jersey	30.06	763.5	30.09	764.3	54.0	12.2	86	ne.	10	4.5	.....	0	hz.	.....	.....	0.67	17.0	clear	B. A. Blundon.
Sanford, Florida	30.09	764.3	.....	.....	70	21.1	87	se.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	J. B. Marbury.
San Francisco, California	29.98	761.5	30.05	763.3	52	11.1	90	calm	0	0	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	N. Gorom.
Santa Fé, New Mexico	23.09	586.5	29.70	754.4	35	1.7	49	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.12	765.0	30.21	767.3	74	23.3	66	s.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.33	668.8	29.93	760.2	45	7.2	76	sw.	8	3.6	.....	5 k	0	.....	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.08	753.9	29.92	760.0	69.8	21.0	90	se.	3	1.3	.....	0	8 ks	.....	s.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.52	724.4	29.74	755.4	68.5	20.3	72	s.	17	7.6	.....	.....	10 s	.....	.....	0	0	cloudy	W. M. Mattingly.
Sitka, Alaska	30.00	762.0	30.06	763.5	43	6.1	83	e.	5	2.2	.....	.....	10 ks	.....	e.	0	0	cloudy	F. W. Pickett.
Smith, Fort, Arkansas	29.37	746.0	29.84	757.9	73.0	22.8	71	se.	0	2.7	.....	.....	10 ks	.....	s.	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.17	766.3	30.21	767.3	69	20.6	90	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.97	710.4	30.02	762.5	50	10.0	86	ne.	1	0.4	.....	4 c	3 s	.....	.....	0	0	fair	John F. Hemenway.
Springfield, Illinois	29.17	740.9	29.84	757.9	64	17.8	78	se.	7	3.1	.....	2 cs	6 s	w.	w	0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.40	721.3	29.82	757.4	68	20.0	73	s.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	J. H. Bryce.
Starkville, Miss	29.60	751.8	30.07	763.8	72	22.2	82	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.02	711.7	29.85	758.2	37	2.8	92	s.	3	1.3	.....	4 cs	0	.....	.....	0	0	fair	A. Schneider.
Stockton, Fort, Texas	26.88	682.7	29.89	759.2	55	12.8	87	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.09	764.3	30.14	765.5	50.0	10.0	74	nw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.20	690.9	29.87	758.7	41	5.0	59	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.35	745.5	30.03	762.7	51	10.6	59	ne.	16	7.2	.....	7 cs	0	w.	.....	inap.	inap.	fair	A. Buell.
Tucson, Arizona	27.51	698.7	29.85	758.2	46	7.8	44	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.39	746.5	29.41	747.0	37	2.8	82	se.	6	2.7	.....	.....	10 n	.....	.....	0.03	0.8	light rain	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	41	5.0	52	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.76	755.9	30.01	762.2	69.4	20.8	93	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	James Kenealy.
Visalia, California	29.03	752.6	30.00	762.0	52.3	11.3	91	nw.	3	1.3	.....	3 cs	0	.....	.....	0	0	clear	O. D. Stewart.
Walhalla, Fort, Wyoming	24.33	618.0	29.81	757.2	42.0	5.6	95	nw.	1	0.4	.....	.....	10 n	.....	.....	1.12	28.4	light rain	T. M. Ambler.
Washington, D. C.	29.94	760.5	30.06	763.5	65.1	18.4	78	ne.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.06	651.8	29.51	749.5	50	10.0	30	nw	10	4.5	.....	3 c	2 s	nw.	.....	0	0	fair	F. H. Brandenburg.
Williamsport, Pa	29.50	749.3	30.10	764.5	56.8	13.8	64	se.	1	0.4	.....	0	fg.	.....	.....	0.49	12.4	clear	B. F. Hough.
Wilmington, N. Carolina	30.14	765.5	30.19	766.8	69	20.6	78	w.	6	2.7	.....	hz.	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.59	650.0	29.94	760.5	40	4.4	73	sw.	4	1.8	.....	0	5 s	.....	sw.	0.07	1.8	fair	J. Grover.
Yankton, Dakota	28.39	721.1	29.07	753.6	48	8.9	86	se.	16	7.2	.....	.....	10 s	.....	.....	2.19	55.6	cloudy	J. H. Atfield.
Yuma, Arizona	29.73	755.1	29.88	758.9	54.5	12.5	62	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	53.5	11.9	82	calm	0	0	.....	.....	10 s	.....	nw.	0.07	1.8	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.00	762.0	.....	.....	84	calm	0	0	.....	9 cs	1 s	.....	.....	0.01	0.3	cloudy	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78.5	25.8	89	e.	.....	.....	3	5 k	6 ks	e.	e.	0.160	4.1	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	78	25.6	89	calm	.....	.....	0	3 c	2 k	s.	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	80	26.7	97	se.	.....	.....	1	.....	8 ks	se.	.....	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallon.
Santiago de Cuba, W. I	29.97	761.2	30.00	762.0	78	25.6	74	n.	6	2.7	.....	0	0	.....	.....	0	0	.....	R. Mason.
York Factory, B. A.	30.10	764.5	30.17	766.3	29.5	— 1.4	94	w.	11	4.9	.....	1 c	0	w.	.....	0	0	.....	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, Malta, Mediterranean	30.05	763.3	81	27.2	48	nnw.			1		0							blue sky.
H. M. S. Dido, Barbadoes, W. I.	29.98	761.5	83	28.3		se.			2		3	w.						d. clouds.
H. M. S. Flamingo, N. 28° 07′, W. 68° 43′	30.16	766.1	73	22.8	95	ne.			3		3	e.				2	e.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.97	761.2	74	23.3	68	nnw.			2		1	nnw.						blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.00	762.0	63	17.2	67	wsw.			4		4	wsw.						d. clouds.
H. M. S. Rocket, N. 35° 20′, W. 37° 22′	30.43	772.9	68	20.0	65	se.			2		3					2	n.	d. clouds.
H. M. S. Tyne, Balize, British Honduras	29.88	758.9	80	26.7	87	e.			2		9	e.				1	e.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	29.88	758.9	50	10.0	72	wnw.			1		1	wnw.						blue sky.
U. S. Navy Yard, Pensacola, Fla.	30.08	764.0	76	24.4	86	se.	5	2.2			5		se.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H.*	30.04	763.0	50	10.0	65	n	5	2.2			10		ne.					raining.
U. S. S. Alliance, Hampton Roads, Va	30.06	763.5	68	20.0	74	sw.			3		0			0	0	sm'h		clear.
U. S. S. Colorado, New York, N. Y.	30.16	766.1	62	16.7	?	ne.	5	2.2			0			0.01	0.3			clear.
U. S. S. Franklin, Norfolk, Va	30.08	764.0	71	21.7	90	wsw.	10	4.5			0			0	0			clear.
U. S. S. Jamestown, N. 32° 15′, W. 78° 12′	30.06	763.5	74	23.3	63	sse.			3		2		se.			sm'h		fair
U. S. S. Kearsarge, Norfolk, Va	30.13	765.3	68	20.0	84	sw.			3		0							clear.
U. S. S. Lancaster, N. 56° 19′ E. 6° 50′	29.54	750.3	50	10.0	100	se.			3		5		calm			sm'h		fair.
U. S. S. Michigan, Detroit, Michigan	30.05	763.3	45	7.2	84	ne.			3		10		ne.					cloudy.
U. S. S. Minnesota. New York, N. Y.	30.12	765.0	57	13.9	69	ne.			2		2							fair.
U. S. S. New Hampshire, Newport, R. I.	30.08	764.0	55	12.8	62	nw.			1		8		calm			sm'h		fair.
U. S. S. Portsmouth, N. 40° 20′, W. 72° 14′	30.16	766.1	49	9.4	100	ne.			2		5		se.					hazy.
U. S. S. Powhatan, N. 16° 13′ W. 78° 32′	29.93	760.2	85	29.4	87	e.			3		5					sm'h		fair.
U. S. S. Quinnebang, Monrovia, Liberia, Africa	29.95	760.7	84	28.9	83	sw.			2		5		sw.			sm'h		fair.
U. S. S. Saratoga, N. 27° 43′, W. 62° 44′	30.15	765.8	72	22.2	95	nne.			4–5		2		nne.	0	0	long	nne.	clear.
U. S. S. St. Louis, League Island, Pa.	30.04	763.0	60	15.6	76	ne.	7.4	3.3			0			0	0			clear.
U. S. S. Swatara, N. 13° 52′, W. 83° 04′ †	29.87	758.7	81	27.2	83	ne.			2		5		ne.	0	0	sm'h		fair.
U. S. S. Tennessee, Fort Monroe, Va.	30.14	765.5	67	19.4	100	ssw.	6	2.7			0			0	0			clear.
U. S. S. Vandalia, Hampton roads, Va	30.07	763.8	66	18.9	79	sw.			3		0							clear.
U. S. S. Wabash, Boston, Mass.	30.11	764.8	54	12.2	61	nw.	5	2.2			8		nw.	0	0			cloudy.
U. S. S. Yantic, Norfolk, Va	30.12	765.0	69	20.6	70	sse.			2		0							clear.
Commewyne, N. 35° 09′, W. 48° 50′	30.22	767.6	66.8	19.3	95	ssw.			4		10							overcast.
S. S. British Crown, N. 42° 45′, W. 47° 20′ †	30.05	763.3	50	10.0		wsw.			3		1		w.	4 h'r	4 h'r	h'vy	sw.	
S. S. British Prince, N. 39° 41′, W. 53° 24′ †	30.23	767.8	62	16.7		ese.			3		4		e.	0	0	mod.	ne.	clear.
S. S. Illinois, N 45° 50′, W. 33° 50′ *	30.13	765.3	61	16.1		wsw.			4		6		ssw.			sm'h	w.	fair.
S. S. Lord Gough, N. 49° 43′, W. 15° 37′	29.95	760.7	49	9.4		n.			5		5		n.	0	0	mod.	ne.	fair.
S. S. Pennsylvanian, Philadelphia, Pa †	30.06	763.5	64	17.8		ene.			2		4		e.					clear.
S. S. Circassian, Cape Sayta, St. Lawrence river	30.16	766.1	38	3.3	72	w.			4		4		wnw.	0	0			d. clouds.
S. S. Grecian, Montreal, Canada	30.19	766.8	38	3.3	72	n.			2		0			0	0			clear.
S. S. Nova Scotian, N. 47° 01′, W. 40° 42′	30.22	767.6	44	6.7		wnw.			3		5		w.			r'gh	wnw.	fair.
S. S. Polynesian, N. 47° 17′, W. 44° 25′	30.13	765.3	43	6.1		sw.			2		10			3 h'r	3 h'r	mod.	ssw.	foggy.
S. S. Manitoban, N. 51° 06′, W. 30° 27′	30.04	763.0	50	10.0	86	ssw.			5		5		ssw.	4 h'r	4 h'r	mod.	sw.	drizzling.
S. S. Jason, N. 42° 35′, W. 43° 03′ †	30.07	763.8	58.1	14.5		ene.			3		10 n					2	ne.	foggy.
S. S. Alvo, Kingston, Jamaica, W. I. †	29.93	760.2	80	26.7		nne.			2		5 k		calm	0	0			fine.
S. S. Alene, Port Limon, Costa Rica †	29.97	761.2	80	26.7		calm			0		0			0	0	sm'h		fine.
S. S. Alisa, San Juan, Porto Rico, W. I. †	29.92	760.0	80	26.7		ne.			4		1		e.	2 h'r	2 h'r			
S. S. Assyria, N. 40° 02′, W. 29° 27′	30.42	772.7	60	15.6		calm			0		0			0	0	sm'h		clear.
S. S. Bolivia, N. 44° 35′, W. 42° 00′ *†	30.14	765.5	58	14.4		sse.			1		10		ne.	24 h'r	24 h'r	sm'h	e.	overcast.
S. S. Dorian, N. 34° 26′, W. 59° 36′	30.28	769.1	64	17.8		n.			4		6		nw.	0	0	sm'h		fine.
S. S. Devonia, N. 42° 20′, W. 52° 09′*†	30.10	764.5	52	11.1		s.			3		0					sli't	e.	clear.
S. S. Elysia, N. 41° 04′, W. 45° 00′	30.13	765.3	61.2	16.2	100	w.			3		10			4 h'r	4 h'r	mod.	ssw.	raining.
S. S. Llandaff City, N. 50° 03′, W. 28° 14′†	30.00	762.0	52	11.1		ssw.			5		9		w.	sh'rs	sh'rs	mod.	w.	
S. S. Pavonia, N. 46° 55′, W. 32° 01′	30.08	764.0	62	16.7	88	ssw.			5		9		sw.	0	0	mod.	ene.	cloudy.
S. S. Abyssinia, N. 50° 35′, W. 16° 30′			47	8.3	85	sw.			1		2		s.	0	0	mod.	nw.	d. clouds.
S. S. Wisconsin, N. 47° 37′ W. 31° 50′	30.00	762.0	56	13.3		sw.			4		10		sw.	3 h'r	3 h'r	mod	ne.	raining.
S. S. Wyoming, N. 40° 35′, W. 67° 32′	30.06	763.5	45	7.2		var.			1		3		nnw.	2 h'r	2 h'r	mod.	sw.	hazy.
S. S. Bohemia, Hamburg, Germany						se.			2		8		s.	0	0			fair.
S. S. Gellert, New York, N. Y.	30.10	764.5	63	17.2	72	ne.			2		0			1 h'r	1 h'r			clear.
S. S. Rugia, New York, N. Y.	30.11	764.8																
S. S. Silesia, N. 42° 00′, W. 53° 00′	30.10	764.5	60.5	15.8		ssw.			5		0			0	0	4	sw.	clear.
S. S. Westphalia, New York, N. Y.	29.99	761.7	52	11.1	86	w.			3		5		w.	0	0			fair.
S. S. City of Paris, N. 41° 17′, W. 43° 30′						sse.			2		10		se.	12 h'r	12 h'r	r'gh	w.	overcast.
H. M. S. Cockatrice, N. 43° 03′, E. 28° 38′	30.02	762.5	53	11.7		e.			1		10							foggy.
S. S. Colorado, N. 39° 48′, W. 74° 09′†	30.05	763.3	57	13.9		e.			3		1		e.	0	0	small	ne.	clear.
S. S. Rio Grande, N. 28° 55′, W. 93° 42′ *†	29.98	761.5	78	25.6		se.			1		1		se.	0	0			clear.
S. S. Chalmette, N. 26° 44′ W. 80° 02′†	30.20	767.1	75	23.9		ese.			5		6		e.	0	0	mod.	e.	fair.
S. S. New York, N. 28° 10′, W. 88° 00′			78	25.6		se.			4		3		se.			sm'h		clear.
S. S. Lone Star, N. 24° 50′, W. 80° 18′†	30.10	764.5	77	25.0		e.			4		2		e.	2 h'r	2 h'r	r'gh	ene.	clear.
S. S. Alleghany, Boston Bay, Mass †	30.13	765.3	55	12.8		nw.			2		4		sw.	0	0			fair.
S. S. Archimede, New York Bay, N. Y. †	30.12	765.0	64	17.8	62	ne.			2		0			1 h'r	1 h'r			clear.
S. S. City of Washington, N. 39° 30′, W. 73° 59′ †	30.03	762.7	62	16.7		s.			2		2			0	0	sm'h		clear.
S. S. Denmark, N. 40° 48′, W. 52° 15′†	30.08	764.0	56	13.3		s.			2		2		se.	0	0	sm'h		clear.
S. S. Egypt, N. 40° 54′, W 49° 05′*†	30.20	767.1	50	10.0		ene.			2		8		ne.	0	0	mod.	nw.	cloudy.
S. S. Helvetia, N. 42° 23′, W. 46° 30′	30.14	765.5	48	8.9	92	n.			1		10		w.	2 h'r	2 h'r	sm'h	w.	cloudy.
S. S. Holland, N. 40° 37′, W. 69° 18′	29.96	761.0	53	11.7		w.			2		5		w.	0	0	sm'h	w.	hazy.
S. S. Donau, N. 41° 30′, W. 55° 34′	30.11	764.8				ssw.			4		1		ssw.	0	0	sm'h	ssw.	clear.
S. S. Elbe, N. 40° 51′, W. 51° 26′	30.20	767.1	54	12.2	82	se.			3-4		0			6 h'r	6 h'r	sm'h	se.	clear.
S. S. Hohenzollern, N. 52° 12′, E. 3° 07′ *	29.53	750.0	50.0	10.0		w.			1		10		w.	3 h'r	3 h'r	sm'h		overcast.
S. S. Hohenstaufen, N. 42° 39′, W. 46° 53′	30.06	763.5				nne.			2-3		9		ne.	4 h'r	4 h'r	sm'h	nne.	misty.
S. S. Neckar, N. 49° 42′, W. 7° 52′	29.59	751.6	46.5	8.1	73	wnw.			0		4		nw.	light	light	r'gh	nw.	fair.
S. S. Oder, N. 50° 38′, W. 0° 17′	29.51	749.5	48.2	9.0		nne.			4		10		ne.	0	0	sm'h	nne.	cloudy.
S. S. Ohio, N. 40° 48′, W. 47° 30′	30.12	765.0				e.			1		5		w.	4 h'r	4 h'r	sm'h	var.	fair.
S. S. Salier, N. 42° 04′ W. 50° 58′ *†	30.13	765.3	46	7.8		ese.			1-3		3		ese.	0	0		n.	clear.
S. S. Weser, N. 43° 10′, W. 44° 40′	30.13	765.3				nw.			2		5		w.	11 h'r	11 h'r	mod.	w.	fair.
S. S. Orinoco, Bermuda Islands, Atlantic Ocean*†	30.24	768.1	74	23.3		e.			2		3		e.	0	0			clear.
S. S. Muriel, Martinique, W. I.	29.94	760.5	83	28.3		e.			3		0			0	0	sm'h		clear.
S. S. City of Augusta, New York, N. Y. †	30.07	763.8				se.			3		6		ese.	0	0			smoky.
S. S. Belgenland, off Start Point, Eng.			47	8.3	92	n.			7		8		nne.	2 h'r	2 h'r	r'gh	nne.	squally.
S. S. Nederland, N. 41° 41′, W. 56° 14′			57	13.9	81	sw.			3		8		sw.	0	0	sm'h	var.	cloudy.
S. S. Rhynland, N. 48° 22′, W. 25° 40′	30.24	768.1	49	9.4	57	w.			4		5		nw.	0	0	mod.	nnw.	fair
S. S. Pennland, Antwerp, Belgium	29.64	752.8	53	11.7	100	se.			2		10			2 h'r	2 h'r			light rain.
S. S. Waesland, Jersey City, N. J.	30.11	764.8	62	16.7		n.			4		0			0.12	3.0			clear.
S. S. Zeeland, N. 43° 30′, W. 40° 15′ *†	30.06	763.5	60	15.6		ssw.			6		10		sw.	0	0	h'vy	sw.	overcast.
S. S. P. Caland, Rotterdam, Holland	29.62	752.3	52.5	11.4	90	sw.			3		10		sw.					rainy.
S. S. Leerdam, N. 42° 40′ W. 54° 32′	29.94	760.5	56	13.3	97	wsw.			5		10		w.			long	wnw.	cloudy.
S. S. Rotterdam, N. 48° 29′, W. 23° 10′	30.23	767.8	55	12.8	86	n.			6		6		n.	0	0	6	n	fair.
S. S. W. A. Scholten, New York, N. Y.	30.09	764.3	58.0	14.4	70	nne.			3		2		ne.	4 h'r	4 h'r			clear.
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	79.5	26.4	93	ene.			5				ene.	½ h'r	½ h'r	mod.	ene.	cloudy.
S. S. Valencia, N. 37° 25′ W. 73° 02′ †	30.28	769.1	67	19.4	89	sw.			6		0			0	0	mod.	sw.	clear.
S. S. State of Florida, N. 50° 18′ W. 28° 41′			54	12.2		s.			6		10		sse.	12 h'r	12 h'r	mod.	s.	overcast.
S. S. State of Nevada, N. 42° 59′, W. 47° 15′ †	30.16	766.1	54	12.2		ne.			2		10		ne.	0	0	light	nw.	cloudy.
S. S. Lepanto, N. 36° 31′, W. 8° 41′*	30.13	765.3	59	15.0		nw.			6-7		4		n.	1 h'r	1 h'r	h'vy	wnw.	cloudy.
S. S. Marengo, N. 49° 39′, W. 10° 43′†	29.72	754.9	52	11.1		nw.			7		6		nw.	hail	hail	r'gh	n.	hailing.
S. S. Otranto, N. 44° 02′, W. 46° 33′	30.24	768.1	50	10.1		wsw.			3		0			0	0	long	sw.	clear.
S. S. Romano, N. 39° 54′, W. 63° 12′ †	30.05	763.3	61	16.1		w.			4		2		w.			mod.	w.	clear.
S. S. Salerno, N. 32° 15′, E. 28° 56′ †	30.05	763.3	68	20.0		se.			1		0			0	0	sm'h	w.	clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. S. Toronto, N. 51° 18′, W. 13° 53′	29.75	755.6	47	8.3		n.			6		3		nne.	0	0	long	n.	clear.
S. S. Oregon, N. 49° 54′, W. 44° 32′	29.91	759.7	46	7.8		ssw.			5		5		ssw.			h'vy	ssw.	fair.
S. S. Lake Manitoba, N. 51° 24′, W. 10° 38′	29.68	753.9	48	8.9		nne.			7		9		nne.	2 h'r	2 h'r	h'vy	n.	squally.
S. S. Daniel Steinmann, N. 40° 30′, W. 71° 33′†	30.12	765.0	56	13.3		nne.			1		1			1 h'r	1 h'r	mod.	s.	clear
S. S. Norman, Philadelphia, Pa	30.07	763.8				ne.			1		0			0	0			clear.
S. S. Saxon, N. 40° 00′, W. 73° 26′†	30.08	764.6				ene.			4		5		se.	0	0	light	se.	
S. S. Baltic, N. 47° 45′ W. 34° 48′*	30.04	763.0	55	12.8	87	wsw.			4		10		w.	5 h'r	5 h'r	mod.	w.	raining.
S. S. Celtic, N. 44° 38′ W. 47° 02′†	30.11	764.8	48	8.9		w.			1		1		w.	0	0	light	w.	clear.
S. S. Iowa, N. 41° 53′, W. 54° 11′†	30.12	765.0	53	11.7		sse.			4		1		sse.	0	0	sm'h		clear.
S. S. Antonio Lopez, Porto Rico, W. I	30.08	764.0	80	26.7	78	e.			3		3			0	0	sm'h		clear.
Schr. Abbie H. Gheen, New York, N. Y †	30.10	764.5	60	15.0		ne.			1					0	0			clear.
Bg. Abbie Clifford, N. 18° 11′, W. 65° 43′†	30.03	762.7	80	26.7		ne.			4		5		ene.	½ h'r	½ h'r			fair.
Bk. Aquidneck, N. 28° 59′, W. 68° 40′						var.			4		1		ne.	0	0	light	ne	clear.
Bk. Alpha, N. 39° 10′, W. 60° 40′*†	30.12	765.0	70	21.1		sw.			5		1		sw.	0	0	mod.	sw.	clear.
Bg. Alcira, N. 24° 06′, W. 65° 05′	30.17	766.3	77	25.0		ne.			6		4		ne.	0	0	mod.	var.	clear.
Bk. Adelaide, N. 30° 43′, W. 48° 00′ *†	30.34	770.6	75	23.9		se.			5		3		se.	0	0	mod.	se.	clear.
Schr. Annie R. Lewis, N. 26° 00′, W. 63° 48′†	30.22	767.6	77	25.0		nne.			4		3		nne.	0	0	long	nne.	clear.
Schr. Arthur Burton, Marthas Vineyard, Mass						baff					2		calm	0	0	sm'h		fine.
Bk. Aureola, Saint Vincent, W. I†	29.84	757.9	88	31.1		ne.			1		3		ne.	0	0			clear.
Bk. Achille F., N. 30° —′, W. 23° —′†	30.24	768.1	65	18.3	76	n			4		2		n.	light	light	mod.	nne.	clear.
Bg. Annie R. Storer, N. 23° 02′, W. 69° 58′†	30.16	766.1				ene.			4		2		ene.	0	0	sm'h	nnw.	clear.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.95	760.7	82	27.8		ene.			1		8		ene.	0	0			cloudy.
Bk. Champion, N. 20° 47′, W. 44° 20′			75	23.9	72	ene.			3		2		ene.	0	0	short	ene.	clear.
Bkt. O. S. Bushnell, N. 34° 40′, W. 56° 53′	30.25	768.3				ne.			4		1		ne.	0	0	h'vy	nw.	fair.
S. Cornelius, N. 49° 13′, W. 26° 00′†	30.18	766.6	50.0	10.0		sse.			3		10		w.	0	0	h'vy	ene.	cloudy.
Bk. Commerce, N. 36° 06′, W. 71° 57′			67	19.4		sw.			3		0			0	0	cross	var.	fine.
Bk. Childwall, N. 7° 50′, W. 35° 38′			80	26.7		nne.			5		5		var.	½ h'r	½ h'r	light	ne.	showery.
S. David Steward, N. 35° 34′, W. 66° 18′ †.	30.30	769.6				var.			3		4		sw.	0	0	light	sw.	fair.
S. S. D. J. Foley, N. 27° 28′, W. 74° 40′ *†	30.15	765.8	76	24.4	77	ne.			3		3		ne.	0	0	long	nne.	clear.
Bkt. David A. Preston, N. 40° 00′, W. 67° 50′			50	10.0		w.			7		0			0	0	long	s.	
Schr. Edith R. Seward, N. 20° 59′, W. 73° 45†	30.09	764.3	76	24.4		ene.			2		7		e.	0	0	mod.	ene.	cloudy.
S. E. J. Spicer, Liverpool, Eng	29.60	751.8	47	8.3	85	ene.			5		5		ene.	0	0			fair.
Bk. E. D. Bigelow, Bay of Fundy, N. S*†	29.90	759.4				nw.			4		2		wnw.	0	0			fair.
U. S. Fish. Com. S. S. Fish Hawk, Glymont, Md†	30.13	765.3	68	20.0	84	calm			0		3		calm	0	0			clear.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.15	765.8																clear.
S. Festina Lente, off Byron Island, Canada	29.62	752.3	34	1.1		wsw.			6		10		wnw.	6 h'r	6 h'r			overcast.
Bk. George Davis, N. 32° 08′ W. 74° 20′						calm			0				se.	0	0	sm'h	se.	fine.
Bg. Gipsy Queen, N. 28° 12′, W. 79° 40*†	30.10	764.5				e.			5		2		se.			sm'h		fair.
Bk. Godeffroy, N. 33° 24′, W. 74° 15′*	30.23	767.8	69.4	20.8	93	sw.			4		2		wsw.	0	0	sm'h	wsw.	clear.
Bs. Galeon, N. 20° 49′ W. 90° 33′ †	29.92	760.0	77	25.0		e.			1		0			0	0	sm'h	ne.	blue sky.
S. Hedwig, N. 37° 30′, W. 51° 23′	30.20	767.1	63.3	17.4	92	n.			4		9		n.	4 h'r	4 h'r	3	var.	drizzling.
Bk. Hattie G. McFarland, Port Royal, S. C*†	30.20	767.1	72	22.2		calm			0		3		nw.	0	0			fine.
Bk. John H. Pearson, N. 32° 55′, W. 45° 46′						ssw.			1				s	0	0	long	ne.	cloudy.
Schr. Isabel Alberto, N. 35° 54′, W. 74° 30′†	30.15	765.8				sw.			3		0			0	0	light	sw.	hazy.
Bk. Cato, Setubal, Portugal*†	30.00	762.0				nnw.			4		2		n.	0	0			clear.
Schr. John L. Thomas, N. 34° 35′, W. 75° 39′ *†	30.28	769.1				sw.			2		1		sw.	0	0	light	se.	clear.
Bg. John Wesley, Bailey's Mills. Ga*†	30.08	764.0				calm			0		0			0	0			clear.
Schr. Jennie N. Huddell, N. 36° 30′ W. 75° 30′†	30.14	765.5	63	17.2	89	sw.			3		2		w.	0	0	sm'h		clear.
Bkt. Josephine, N. 6° 40′, W. 45° 47′†	29.96	761.0	85	29.4	68	ne.			5		2		e.	2 h'r	2 h'r	long	ne.	fair.
Schr. Leonessa, N. 34° 51′, W. 73° 32′†	30.11	764.8				sw.			1		0			0	0	mod.	ssw.	clear.
Bg. L. & W. Armstrong, St. Juan, Porto Rico, W. I*†	30.04	763.0				s.			1		2		ene.	0	0	sm'h		fine.
Light House Tender, Laurel, Appalachiola Bay, Fla†	30.13	765.3	76	24.4		e.			1		1		ese.	0	0			clear.
Bg. Lillian, N. 22° 11′, W. 58° 00′†	30.01	762.2	77	25.0		ne.			3		4		sw.	4 h'r	4 h'r	mod.	e.	showery.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.97	761.2	79	26.1		calm			0		0			0	0			clear.
S. S. Madrid, Ancona, Italy†	29.92	760.0	70	21.1	80	se.			2		4			0	0			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga†	30.21	767.3	80	26.7		sw.			1		0			0	0			clear.
Bkt. Kryolith, N. 57° 21′, W. 38° 07′ *†	29.80	756.9				ese.			7		10		ese.			h'vy	ese.	raining.
S. Mt. Washington, N. 19° 05′, W. 33° 25′*†	30.25	768.3	78	25.6	69	ene.			5		2		e	0	0	rg'h	var.	clear.
Bgt. Myrtle, Bay of Fundy, N. S						nw.			4		1		nw.	0	0	mod.	sw.	fair.
Bk. Matthais, N. 38° 55′, W. 68° 40′			60	15.6		var.			2–4		2		w.	0	0	r'gh	w.	hazy.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†	30.01	762.2									5		ne.	spri	nkle	short	ne.	fair.
Schr. Maud Briggs, N. 31° 49′, W. 62° 34′*†	30.31	769.9				ne.			5		7		ne.	0	0	sm'h	ne.	fair.
Bg. O. C. Clary, N. 36° 24′, W. 74° 05′ *†.	30.10	764.5				ssw.			5		1		sw.			sm'h	sw.	clear.
Bk. Ottawa, N. 40° 00′, W. 72° 08′*	30.02	762.5	46	7.8		ne.			4		2		ne.	4 h'r	4 h'r	small	ssw.	clear.
S. S. Raleigh, Baracoa, Cuba, W. I†	30.09	764.3	78	25.6		ne.			2		0							clear.
S. Rudolph, N. 48° 22′, W. 20° 36′			54.5	12.5		nnw.			4		5		n.	1 h'r	1 h'r	long	nne.	squally.
Bk. Rebus, N. 45° 20′, W. 31° 05′	30.20	767.1				sw.			4		5		wsw.	0	0	long	ene.	fair.
Bg. Rising Sun, N. 32° 03′, W. 71° 37′*†	30.30	769.6	75	23.9		sse.			1		1		sse.	0	0	mod.	nne.	
S. S. Madrid, N. 20° 13′, W. 61° 23′*†	30.09	764.3				ne.			3					0	0	light	se.	clear.
S. Salisbury, N. 46° 00′, W. 12° 07′*	29.95	760.7	51.4	10.8	81	nnw.			6		5		nnw.	sq'lls	sqll's	cross	nw.	fair.
Bk. Southern Belle, off Huelva, Portugal †	29.97	761.2				wnw.			3		5			shr's	shr's			fair.
S. St. Francis, N. 15° 30′ W. 37° 30′†	30.19	766.8	78	25.6	73	ne.			6		4		ne.	0	0	mod.	ne.	fair.
Bk. St. Lawrence, N. 23° 08′, W. 57° 48′*†	30.00	762.0				ne.			1				ene.	0	0	h'vy	nne.	fine.
S. S. Strathleven, N. 37° 13′, E. 2° 18′	29.94	760.5	63.9	17.7	69	w.			6		1		sw.	0	0	4	wsw.	blue sky.
Bkt. Sunlight, N. 13° 07′, W. 56° 23′						ese.			4		3		ese.	2 h'r	2 h'r	mod.	se.	fair.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	29.94	760.5				n.			1		0							
Bk. Usko, N. 37° 39′, W. 67° 29′ *.	30.13	765.3	71	21.7		sw.			2		0			0	0	mod.	sw.	clear.
S. Vincenzo Accame, N. 36° 25′, W. 50° 28′†.	30.22	767.7	73.4	23		n			1		4		n.	6½h'r	6½h'r	light		fine.
Bk. Winifred, N. 17° 00′, W. 54° 25′ *†	30.10	764.5											se.	0	0		se.	d. clouds.
S. Wm. McGilvery, N. 27° 02′, W. 38° 47′*†	30.33	770.4	71	21.7	90	ese.			4		4		ssw.			sm'h		misty.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay *†	30.28	769.1	59	15.0	91	s.			1		5	s.						d. clouds.
H. M. S. Boadicea, Cape Town, Cape Colony	30.02	762.5	65	18.3	94	wnw.			1		10							showery.
H. M. S. Sylvia, Montevideo, Uruguay	30.12	765.0	55.2	12.9	80	wsw.			3		8	calm						d. clouds.
H. M. S Thetis, S. 32° 13′ W. 44° 23′	29.94	760.5	68	20.0	79	sw.			5		3						3	wsw.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.11	764.8	50	13.3	87	sw.	10	4.5			10		sw.	0.01	0.3	light	sw.	cloudy.
U. S. S. Enterprise, Simon's Town, Cape Colony*	30.01	762.2	63	17.2	83	w.			2–3		8		calm			sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	30.07	763.8	56	13.3	87	sw.			2		9		s.			sm'h		cloudy.
S. S. Jerome, Amazon River, Brazil*	29.77	759.1	79	26.1		ne.			3		8		se.	0	0			cloudy.
S. S. Archimides, S. 14° 12′, W. 37° 21′	29.97	761.2				ene.			3		2		e.	0	0	light	ene.	clear
S. S. Hevelius, Montevideo, Uruguay†	30.22	767.0	64	17.8		sw.			4		5		sw.	0	0			fair.
S. S. Ptolemy, S. 20° —′, W. 39° 15′	30.12	765.0	79.2	26.2	78	nne.			1–2		6 k			0.75	19.0	4	ese.	fair.
Bk. Gronsaver, S. 3° 50′, W. 32° 45′†	29.91	759.6	83.0	28.3		se.			6		2		se.	0	0	mod	se.	clear.
S. Minnie N. Gerow, S. 25° 04′, W. 36° 10′†.	30.14	765.5	78	25.6		ne.			5		5		ne.	0	0	long	e.	fair.
S. S. Mendoza, S. 6° 43′, W. 33° 41′†	30.10	764.5				e.			5				e.	0	0	sm'h	e.	clear.
S. Paramita, S. 45° 33′, W. 44° 53′†	29.76	755.9	50	10.0		var.			4		3		s.	0	0	small	ssw.	clear.
S. Storm King, S. 44° 46′, W. 58° 15′ *†	29.78	756.4				ssw.			4		1		wnw.	0	0	r'gh	sw.	clear.
Inchkeith, S. 10° 00′, W. 12° 26′	30.08	764.0	74.4	23.0	72	se.			6		5							d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.71	754.6	66	18.9	94	n.			1		10	nw.						drizzling.
H. M. S. Champion, N. 13° 22′, E. 100° 34′	29.70	754.4	85	29.4	96	s.			3		4						2	ssw.	d. clouds.
H. M. S. Sappho, N. 8° 56′, W. 79° 31′			80	26.7	96	nw.			2		5	nw.						d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Flying Fish, N. 37° 09′, E. 126° 05′	29.71	754.6	53.5	11.9	100	ne.			1		10							misty.
H. M. S. Swiftsure, Esquimalt, V. Id.	30.06	763.5	50	10.0	86	calm			0		1	ssw.						blue sky.
H. M. S. Zephyr, N. 37° 33′ E. 121° 25′	29.84	757.9	54	12.2	100	nw.			1		0							blue sky
H.P. M. S. Tamega, Macao, China	29.83	757.6	84.2	29.0	81	ssw.			5		3			¼h'r	¼h'r			d. clouds.
U. S. Naval Hospital, Yokohama. Japan	30.12	765.0	60	15.6	65	sw.			6		5			sli't	sli't			hazy.
U. S. S. Adams, Departure Bay, Alaska †	30.03	762.7	45	7.2	92	calm			0		2					sm'h		clear.
U. S. S. Monocacy, Tama-no-wra Bay, Japan†	29.68	753.9	68	20.0	100	ssw.			2		10		calm					rainy.
U. S. S. Palos, Hong Kong, China	29.70	754.4	82	27.8	87	sw.			3		8		sw.					cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.70	754.4	81	27.2	96	sw.			3		5		sse.	0	0			fair.
S. S. Mexico, N. 28° 53′, W. 115° 24′†	29.98	761.5	64	17.8	62	nw.			2		2		nw.			mod.	wnw.	clear.
S. S. Coptic, N. 40° 28′, W. 139° 57′	29.85	758.2	48.5	9.2	85	w.			3		8		w.	5 h'r	5 h'r	mod.	w.	cloudy.
S. S. Oceanic, N. 41° 06′, W. 175° 47′*	29.67	753.6	47	8.3	92	nnw.			3		10		nw.			3	w.	raining.
S. S. Ancon, N. 33° 15′ W. 117° 50′ †	29.98	761.5	57	13.9	87	nw.			3		0					light	w.	clear.
S. S. Dakota, Seattle, Wash. Ter †	29.93	760.2	49	9.4	85	calm			0		5		nw.	0	0			fair.
S. S. G. W. Elder, San Francisco, Cal †	30.04	763.0	52	11.1	86	calm			0		10							overcast.
S. S. Queen of the Pacific, Portland, Oregon †	30.05	763.3				calm			0		0			0	0			clear.
S. S. Australia, N. 33° 00′, W. 136° 00′	29.89	759.2	60	15.6	100	sw.			5		10		sw.	6 h'r	6 h'r	mod.	sw.	raining.
S. S. City of New York, N. 19° 53′, W. 157° 47′ †	30.09	764.3	74	23.3	81	ne.			4		8		ne.	0	0	sm'h		cloudy.
S. S. City of Pekin, N. 30° 29′, E. 131° 50′			68	20.0	95	s.			7		10		s.			rg'h	s.	raining.
S. E. B. Sutton, N. 18° 00′, W. 122° 00′†	30.01	762.2	69	20.6	80	ne.			3		10		ne.	0	0	mod	nnw.	cloudy.
S. S. Colima, N. 13° 52′, W. 90° 43′ †	29.96	761.0	77	25.0	82	calm			0		10		calm	0.10	2.5	sm'h		cloudy.
S. S. Granada, N. 17° 48′, W. 102° 33′†	29.91	759.7	78	25.6	86	ne.			1		2		se.	0	0	small	w.	clear.
S. S. San José, Panama, Panama †	29.89	759.2	78	25.6		n.			2		5 k		nne.	0	0			fair.
S. S. Gordon Castle, N. 26° 01′, E. 119° 48′ †	29.77	756.1	76.0	24.4	91	ssw.			5		8		ssw.					foggy.
S. Armenia, N. 21° —′, W. 125° 05′*	29.92	760.0	68	20.0	84	ene.			4		10			0	0	mod.	nnw.	overcast.
Bk. Bore, S. 6° 09′, E. 117° 57′ *†	30.22	767.6	87	30.6		ese.			2									
S. Grecian. N. 0° 08′, E. 129° 52′†	29.91	759.7	84	28.9	87	sw.			2		3	se.	nw.	0	0	long	n	clear.
S. Titan, N. 16° 36′, W. 123° 44′ *†	30.00	762.0	74	23.3	90	nne.			5		2		ne.	0	0	mod.	var.	clear.
Xenia, N. 14° 17′ E. 113° 44′			85	29.4		se.			4		3		se.	0	0	sm'h	se.	clear.
S. S. Columbia, Willamette river, Oregon †	30.03	762.7	51	10.6	79	n.			3		3			0	0			clear.
U. S. S. Ranger, N. 13° 10′, W. 88° 46′	29.90	759.4	78	25.6	86	n.			4		6			1.6	41.	long	s.	rainy.
District No. 4—South Pacific.																		
H. M. S. Diamond, S. 33° 40′ E. 152° 51′			58	14.4		se.			8		7	s.				8	se.	showery.
H. M. S. Espiegle, S. 20° 23′, E. 177° 28′	30.08	764.0	75	23.9	60	ese.			4		3					3	sse.	d. clouds.
H. M. S. Kingfisher, S. 17° 27′, W. 149° 54′	29.91	759.7	78	25.6		e.			3		3					3	e.	d. clouds
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.95	760.7	56	13.3		ese.			1							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	30.14	765.5	59	15.0	94	s.			5–6		7							squally.
U. S. S. Hartford, Caroline Ids Oceania*	29.80	756.9	85	29.4	76	ene.			3		8		e.	0	0	sm'h	e.	cloudy.
U. S. S. Iroquois, Valparaiso, Chili	30.04	763.0	59	15.0	94	wnw.			1		10					sm'h		cloudy.
U. S. S. Lackawanna, S. 38° 43′, W. 137° 54′*	30.19	766.8	59	15.0	59	nne.			5		10		ne.			mod.	ne.	cloudy.
U. S. S. Onward, Callao, Peru*	30.06	763.5	65	18.3	84	e.			1–2		10							cloudy.
U. S. S. Pensacola, Callao, Peru*†	29.89	759.2	65	18.3	78	sse.	7	3.1	7		10			0	0			cloudy.
U. S. S. Wachusetts, S. 11° 24′ W. 169° 33′	29.81	757.2	80	26.7	91	ese.			3		2		se.			long	e.	clear.
S. May Hulse, S. 57° 02′ W. 71° 36′	29.50	749.3	41.5	5.3	74	wsw.			6		10							showery.
S. S. City of Sydney, Sydney, N. S. W *†.	30.33	770.4	54	12.2	74	s.			5		4n		ssw.	0	0			fair.
S. S. Zealandia, Sydney, N S. W.	30.37	771.4	55	12.8	93	wsw.			4		10							raining.
Bk. Chas. Stewart, S. 44° 30′, E. 145° 00′†	30.71	780.0	52	11.1		sw.			4		10		sw.	0	0	mod.	sw.	hazy.
S. David Crocket, S. 45° 18′, W. 87° 32′*	29.81	757.2	49	9.4	96	e.			8		10			7 h'r	7 h'r	h'vy	ene.	raining.
H. M. S. Lark, S. 25° 08′, E. 154° 36′	30.04	763.0	71.3	21.8	100	se.			6		10					5	se.	showery.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.74	755.4	86	30.0		e.			2		3	e.						d. clouds.
H. M. S. Euryalus, Colombo, Ceylon, India	29.80	756.9	75	23.9	95	sse.			2									raining.
H. M. S. London, Zanzibar, Zanzibar	29.92	760.0	82	27.8	91	se.			2		2	sse.				4	sse.	d. clouds.
S. S. Tourmaline, N. 17° 35′, E. 56° 10′	29.80	756.8				sw.			4		1	sw.				1	sw.	blue sky.
H. M S. Woodlark, N. 26° 39′, E. 55° 03′	29.75	755.6	84	28.9	96	nw.			3		1							blue sky
U. S. S. Juniata, Bunder Abbas, Persia	29.73	755.1	89	31.7	77	s.			1		2			0	0	sm'h		hazy.
Bk Alpheus Marshall, S. 32° 53′, E. 29° 49′ *†	29.81	757.2				sw.			5		1		wsw.	0	0	sli't	nnw.	clear.
S. Annie M Law, S. 18° 34′, E. 80° 11′ *†	30.15	765.8	78	25.6		se.			2		1		se.	0	0	long	ssw.	clear.
S. S. Burswell, N. 12° 31′, E. 46° 47′*†	29.85	758.2	91	32.8		ne.			1		1		calm	0	0	sm'h		clear.
Bk. Ceylon, S. 26° 42′, E. 49° 16′*†	30.10	764.5	75	23.9	77	ssw.			3		1		ssw.	0	0	mod.	sse.	clear.
S. Dynomene, S. 34° 05′, E. 28° 50′	29.85	758.2	70	21.1	95	wsw.			7		4			0	0	mod.	wnw.	misty.
S. S. Malabar, N. 10° 58′, E. 58° 21′						e.			1		0			0	0	mod.	sw.	clear.
Bk. Pilgrim, Anjer, Java, Oceania*†	29.90	759.4				calm			0		2			0	0			clear.
S. S. Radnorshire, N. 12° 02′, E. 62° 30′ *†	29.87	758.7				calm			0					0	0	sm'h	s.	clear.
S. St. David, S. 34° 20′, E. 91° 20′ *†	29.76	755.9	59.3	15.2	94	sw.			6		7		sw.	6 h'r	6 h'r	h'vy	sw.	rainy.
S. S. Foscolia, N. 7° 20′, E. 74° 29′ †	29.79	756.7				var.			5		10		var.	8 h'r	8 h'r	r'gh	var.	raining.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 10, 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.05	763.3	68.0	20.0	76	e.			1		0			0	0	clear	Malaterre.
Algiers			29.97	761.1	68.0	20.0	54	wnw.			5		4			0	0	cloudy	Thève.
La Calle			29.97	761.3	73.8	23.2	70	wnw.			1		2			0	0	fair	Fonfrède.
Tunis			29.95	760.7															Jacques.
Saida			30.05	763.2															Pérès.
Tebessa			30.01	762.3	79.9	26.6	26	nw.			2		3			0	0	pretty fair	St. Martin.
Geriville					71.2	21.8	21	n.			2		3			0	0	pretty fair	Forfert.
Laghouat			30.02	762.4	78.1	25.6	17	e.			1		4			0	0	cloudy	Abraham.
Biskra			30.03	762.7	85.6	29.8	33	calm			0		7			0	0	very cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			30.56	776.2	52.8	11.6	60	s.	5	2.2			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.49	774.4	30.58	776.7	49.0	9.4	75	sse.	3	1.3			5			0	0	fair	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.29	744.0	29.83	757.6	66.6	19.2	47	sw.			5		6			0.031	0.8		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.94	735.1	29.67	753.7	71.6	22.0	39	sw.	13.6	6.1			4			0.020	0.5		Dr. Wierzbiski
Eperies	28.95	735.2	29.79	756.7	68.0	20.0	58	s.			3		9 ks		n.	inap.	inap.		Julius Mikolik.
Gratz	28.45	722.6	29.66	753.3	65.8	18.8	63	sw.			3		7			0.016	0.4		Andreas Rospini.
Hermannstadt	28.50	723.8	29.84	758.0	79.2	26.2	38	ese.			2		2			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.29	718.5	29.57	751.0	69.1	20.6	66	ene.			3	4 c	k			0	0	lightly cl'dy	The Staff.
Lemberg	28.86	733.0	29.80	757.0	70.9	21.6	46	sw.			7		2			0	0		Dr. T. Stanecki.
Neu Schmecks	26.48	672.7	29.81	757.2	52.3	11.3	84	sw.			1		10			0.220	5.6		Dr. V. von Szontagh.
Pola	29.71	754.5	29.77	756.2	59.4	15.2	80	se.			5		7			0.024	0.6		I. R. Hydrographic Office.
Szathmar	29.40	746.7	29.85	758.2	75.6	24.2		sw.			3		4			0	0		Joseph Midlinszky, S. J.
Szegedin	29.58	751.2	29.84	758.0	74.5	23.6	44	s.			1		4			0	0		Karl Stancel.
Trieste	29.74	755.4	29.84	757.9	66.6	19.2	61	sw.			1		10			0.174	4.4		Royal Academy.
Vienna	28.96	735.6	29.65	753.0	71.2	21.8	37	s.			4		5			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.41	747.0	29.51	749.5	41.1	5.1	82	nw.	30	13.4			10			0.115	2.9	showery	W. Boswell.
Armagh, Observatory	29.51	749.5	29.74	755.4	45.7	7.6	60	n.	10	4.5			9					showery	S. Call.
Bidston, Liverpool Obs'y			29.65	753.1	41.6	5.3	85	nw.	19	8.5			10					raining	John Hartnup.
Bolton, Sharples	29.07	738.4	29.60	751.8	41.9	5.5	87	nw.	12	5.4			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.18	741.2	29.58	751.3	41.7	5.4	87	nw.			2		10			0.08	2.0	raining	McLandsborough & Preston.
Bridgetown, Barbadoes	29.93	760.2	29.96	761.0	84.0	28.9	68	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.54	750.3	29.64	752.8	42.0	5.6	91	nw.			0.4		10					raining	John McLaren.
Chatham, School M. E.	29.48	748.8	29.61	752.1	48.1	8.9	85	calm			0		7					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.56	750.8	29.79	756.7	45.1	7.3	68	nw.			4		10					overcast	The Staff.
Fort Napier, Natal	27.59	700.8	29.81	757.2	72.4	22.4	44	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.64	752.8	29.90	759.4	87.0	30.6	55	sw.			2		3					raining	Sergt. C. E. Keane.
Galway, Queen's College	29.77	756.1	29.81	757.2	52	11.1	47	e.			3		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	66.0	18.9	93	nw.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.41	747.0	29.62	752.3	48.9	9.4	39	nw.			4		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.46	748.3	29.64	752.8	39.9	4.4	98	wsw.			1		10					showery	The Staff.
Guernsey	29.40	746 7	29.70	754.4	43.0	6.1	83	nw.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.62	752.3	29.65	753.1	40.4	4.7	86	nw.	7	3.1			9					misty	The Staff.
Leicester, Museum	29.34	745.2	29.60	751.8	41.0	5.0	89	nw.			1		10					raining	J. C. Smith.
Malta, Mediterranean	30.00	762.0	30.07	763.8	68.4	20.2	79	ne.					6					d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.14	765.5	78.5	25.8	60	e.			3		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.09	738.9	29.62	752.3	39.6	4.2	93	nw.			3		10					raining	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.41	747.0	29.64	752.8	39.8	4.3	92	nw.			3		10					raining	The Staff.
Plymouth	29.64	752.8	29.72	754.9	48.0	8.9	78	n.			3		6					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.47	748.5	29.57	751.1	39.6	4.2	100						10					raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.89	759.2	29.95	760.7	74.0	23.3	52	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.32	744.7	29.61	752.1	45.3	7.4	88	nnw.			2		10			0.06	1.5	raining	W. F. Cooper.
Silloth Rectory	29.60	751.8	29.63	752.6	49.2	9.6	68	ne.			5		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.63	752.6	42.0	5.6	74	nnw.	12	5.4			10					drizzling	W. C. Carlisle.
Truro, Royal Institution	29.78	756.4	29.84	757.9	50	10.0	72	nw.			7		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.91	759.7	29.93	760.2	45.7	7.6	70	nw.	12	5.4			6			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.66	753.4	30.06	763.5	72.3	22.4	58	sw.	3.1	1.4		9 c		w.		0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.15	765.8	30.19	766.8	40	4.4	47	w.	12	5.4		0	0			0	0	clear	H. J. Cundall, C. E
Chatham, N. B*	30.16	766.1	30.23	767.8	42	5.6	43	nw.	8	3.6		2 c	0	nw.		0	0	fair	G. A. Blair.
Cornwall, Ontario	29.75	755.6	29.94	760.5	45.3	7.4	60	e.			3					0.019	0.5	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.18	766.6	30.23	767.8	39.0	3.9		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.26	768.6	30.28	769.1	34	1.1	89	nw.	15	6.7		2 ck	5 ks	calm	calm	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.38	746.2	30.26	768.6	27	— 2.8	84	n.	17	7.6		0	0			0.05	1.3	clear	James Stewart.
Fredericton, N. B	30.23	767.8	30.30	769.6	42.1	5.6	41	nw.	3	1.3		5 ck	0	nw.		0	0	d. clouds	Prof. Harrison, L. L. D.
Granton, Ontario	28.70	729.0	29.80	756.9	49.0	9.4	100	s.	5	2.2		7 cs	0			0	0	fine	Jas. Grant.
Halifax, N. S*	30.12	765.0	30.26	768.6	44	6.7	39	w.	4	1.8		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.38	746.2	29.78	756.4	44.7	7.1	88	sw.			1	5 ck	0	sw.		0.25	6.3	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.55	750.6	29.88	758.9	51	10.6	66	s.	11	4.9			10 ks		w.	inap.	inap.	threatening	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.00	763.5	30.10	764.5	44.0	6.7	52	nw.			5	4 k	0	nw.		0	0	d. clouds	C. H. Rigby.
Montreal, Quebec*	29.84	757.9	30.05	763.3	43	6.1	56	e.	8	3.6			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.71	754.6	29.96	761.0	42.1	5.6	63	ne.			1	0	8 s			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.10	739.1	29.80	756.9	43	6.1	74	sw.	4	1.8		5 k	5 ks	w.	w.	0.68	17.3	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.08	738.6	29.80	756.9	55.2	12.9	76	s.			1	3 cs	0	sw.		0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.15	740.4	29.85	758.2	46	7.8	92	calm	0	0		10 c	0			0.02	0.5	fair	H Morgan.
Port Stanley, Ontario	29.19	741.4	29.83	757.7	49	9.4	89	e.	6	2.7		5 ck	2 n	sw.	sw.	0.04	1.0	cloudy	M. Payne.
Quebec, Quebec*	29.88	758.9	30.25	768.3	38	3.3	61	n.	12	5.4			10 ks		w.	0	0	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.41	747.0	29.88	758.9	38	3.3	82	se.	20	8.9			10 s		s.	0.50	12.7	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.24	768.1	30.29	769.4	40	4.4	42	n.	4	1.8			10 n			0	0	cloudy	
St. John, N. B	30.10	764.5	30.28	769.1	42.0	5.6	50	n.	7	3.1		6 ck	0			0	0	d. clouds	G. Murdock, C. E.
Saint John's, N. F	29.51	749.5	29.77	756.1	36	2.2	100	nw.			4	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F			29.88	758.9	36.7	2.6		nw.			7					0	0		The Commandant
Saugeen, Ontario*	29.04	737.6	29.76	755.9	46	7.8	89	w.	4	1.8			10 ks			0.15	3.8	cloudy	
Stratford, Ontario	28.52	724.4	29.79	756.7	49.9	9.9	80	s.	4	1.8		0	4 s			0	0	bluesky	C. J. Macgregor, M A
Sydney, C. B*	30.04	763.0	30.11	764.8	41	5.0	50	w.	20	8.9		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.46	748.3	29.84	757.9	45	7.2	83	e.	7	3.1		5 cs	5 ks	w.	w.	0	0	cloudy	Magnetic Observatory.
Windsor, N. S	30.13	765.3	30.22	767.6	42.5	5.8	43	nw.	4	1.8		1 c	0			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.79	731.3	29.85	758.2	49.1	9.5	82	se.	6	2.7		0	6 k		w.	0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.23	767.8	30.30	769.6	44	6.7	65	e.	3	1.3		10 k	0	w.		0	0	cloudy	Lt. F. E. Wilmot, R. N.
London, Ontario	28.92	734.6	29.83	757.7	48.2	9.0	81	s.			2	2 cs	4 ks			0	0	d. clouds	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.79	756.7	29.82	757.4	68.0	20.0	73	ene.	7.7	3.4		6 cs	0			0	0	fine	John Duthie.
Springbok Fontein	27.88	708.1			65	18.3	40	n.											J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.06	636.6																	A. Gueluy.
Tchang-kia-tchouang	29.79	756.7	29.90	759.5	61.2	16.2	52	ne.			3		7			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.83	757.7	29.85	758.3	59.7	15.4	96	wnw.	5.6	2.5			10 n			0.169	4.3	raining	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.59	751.5	29.63	752.7	54.9	12.7	65	wnw.	16	7			10						Oversergent Fischer.
Fanoe	29.60	751.8	29.62	752.3	49.6	9.8	76	wsw.			4		3						Overloerer Lauridsen.
Godthaab, Greenland	30.10	764.5	30.14	765.6	40.1	4.5	79	calm			0		9						S. Kleinschmidt.
Jacobshavn, Greenland	30.02	762.6	30.07	763.8	34.9	1.6		e.			4		3						
Stykkisholm, Iceland	30.26	768.6	30.30	769.7	27.7	— 2.4	89	ne.			8		2						A. O. Thorlacius.
Thorshavn	29.84	757.8	29.86	758.4	40.1	4.5	48	ne.	20	9			10						Overloerer Bergh.
Vestervig	29.44	747.8	29.53	750.1	47.7	8.7	92	sw.			6		10						Loerer Oesterbøl.
Egyptian.																			
Cairo	29.76	755.9			84.9	29.4		e.	5.6	2.5		0	0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.34	745.1	29.99	761.8	48.9	9.4	89	sw.			2		10 n		w.	0.126	3.2	raining	M. Labroue, Director.
Alençon, Normal School	29.10	739.2	29.65	753.2	49.6	9.8	69	sw.			3		10 n		n.	0	0	covered	M. Nicot, Director.
Arras, Engineer School	29.50	749.4	29.77	756.1	40.8	4.9	99	nw.			4		10		n.			raining	M. Fénéon, Command't.
Avignon, Normal School	29.84	757.9	29.92	759.9	56.8	13.8	71	nnw.			1				w.	0.579	14.7	clouds	M. Giraud, Director.
Bar-sur-Seine	29.21	741.9	29.76	755.9	54.9	12.7	52	ssw.			1	0	8 kn		sw.	0.059	1.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.41	747.1	29.68	753.9	52.3	11.3	54	ssw.			3		10		sw.	0.311	7.9	raining	M. Frère Eugène Marié.
Besançon, Normal School	28.89	733.7	29.79	756.6	47.5	8.6	98	s.			1		n		nw.	0.177	4.5		M. Gobin, Director.
Bordeaux, Observatory	29.59	751.5	29.85	758.2	47.3	8.5	84	sw.			3		8		w.	0.134	3.4	raining	M. Rayet, Director.
Bourges, Normal School	29.15	740.3	29.70	754.4	45.5	7.5	85	s.			3		10 n		s.	0.28	7.	covered	M. Malet, Director.
Brest, Naval Observatory	29.58	751.3	29.82	757.5	52.2	11.2	61	nnw.			3		6		nnw	0.433	11.0		M. de Kermarée, Dir.
Caen, Normal School	29.54	750.3	29.61	752.2	50.7	10.4	70	sw.			1		8		sw.	0.16	4.	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.35	745.5	29.67	753.5	53.6	12.0	56	s.			4		5			0.039	1.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.19	741.5	29.70	754.3	54.0	12.2	59	s.			1		5			0.28	7.	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.43	722.1	29.78	756.4	53.2	11.8	43	sw.			3	0	5 k			0.024	0.6	½ covered	M. Alluard, Director.
Cluny, Normal School	28.98	736.1	29.83	757.7	47.7	8.7	86	se.			3		10		se.	0.008	0.2		M. de Villemontée, Dir.
Commercy, Normal School	28.91	734.4	29.80	756.9	52.9	11.6	51	sw.			1		n	sw.	sw	0.059	1.5		Dr. Coulet, Director.
Gap, Normal School	27.29	693.2	29.89	759.1	40.6	4.8	93	sw.			6		10			0.701	17.8	raining	M. Jeangirard, Director.
Gréasque, du Rhone	28.78	731.0	29.91	759.8	50.2	10.1	60	nw.			3		7		nw.	0.094	2.4		M. Kina, Director.
Grenoble. Normal School	29.14	740.2	29.91	759.8	42.8	6	88	w.			1		kn		e.	1.272	32.3		M. Ablard, Director.
Guéret, Normal School	28.04	712.1	29.61	752.1	46.0	7.8	59	w.			4		kn		e.	0.118	3.0		M. Delorme, Dir.
Lamballe, Normal School	29.49	749.0	29.76	755.9	47.3	8.5	83	nw.			3		10		nw.	0.386	9.8	covered	M. Ollitrault, Director.
Lescar, Normal School	29.41	746.9	29.97	761.2	54.7	12.6	52	w.			3	0	5 kn			0.307	7.8	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.67	753.7	29.78	756.3	48.6	9.2	58	nnw.			2		10	calm	ne.	0.004	0.1	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.80	731.6	29.87	758.8	46.9	8.3	86	sse.			2	0	8 kn		s.	0.717	18.2	very cloudy	M. André, Director.
Mans, Normal School	29.31	744.4	29.62	752.3	45.1	7.3	90	sw.			3		10		sw.	0.217	5.5	raining	M. Piboëu, Director.
Marseille, Observatory	29.62	752.4	29.89	759.3	55.0	12.8	47	wnw.			3		4		wnw.	0.063	1.6		M. Stephan, Director.
Montlouis	24.73	628.2	29.58	751.2	39.2	4.0	77	w.	9.4	4.2			8	sw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.77	756.1	29.90	759.4	59.4	15.2	62	w.			3		5		w.	0.138	3.5	cloudy	M. Galzin, Director.
Nancy, Normal School	28.98	736.2	29.77	756.1	49.3	9.6	62	sse.			1		kn		w.	0.098	2.5		M. Hasse, Director.
Nantes, Observatory	29.54	750.4	29.71	754.5	49.6	9.8	66	nw.			1–3		10 kn;n		wnw.	0.362	9.2		M. Larocque, Director.
Perpignan, Observatory	29.83	757.7	29.95	760.6	57.4	14.1	46	n.	13.0	5.8			5	w.	w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.98	532.9			19.8	— 6.8		w.			1		fg		w.	0.157	4.0	foggy	M. Vaussenat, Director.
Privas, Normal School	28.77	730.8	29.86	758.4	44.2	6.8	94	se.			1		10 k	se.	se.	0.402	10.2	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.84	630.9			28.9	— 1.7	98	wsw.			6		8		wsw.	0.039	1.0	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.70	754.4	29.73	755.2	54.7	12.6	68	wsw.			6		10		wnw.	0.08	2.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.58	751.2	29.83	757.7	49.8	9.9	62	w.			3		5		sw.	0.24	6.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.81	706.4	29.97	761.1	49.5	9.7	66	se.			1	0	0			0.346	8.8	clear	M. Seger, Director.
Rouen, Normal School	29.61	752.1	29.66	753.3	44.2	6.8	85	wsw.			1		8	sw.		0.138	3.5	very cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.52	749.7	29.68	753.8	54.9	12.7	43	sse.			2		3		ssw.	0.043	1.1		M. Renou, Director.
Toulouse, Observatory	29.24	742.8	29.97	761.2	53.2	11.8	80	sw.			3		8	w.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.47	748.6	29.65	753.1	47.5	8.6	81	s.			6		10	w.	sw.	0.102	2.6	rainy	M. de Tastes.
Versailles, Observatory	29.17	741.0	29.67	753.5	53.2	11.8	56	s.			3					0.236	6.0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.86	758.4	30.01	762.2	53.4	11.9	61	w.	37.4	16.7		c	5 k		w.	0.701	17.8		M. Cartier, Director.
German.																			
Ansbach	28.26	717.9	29.69	754.2	55.0	12.8	62	ne.			4		10		ne.	0.035	0.9		Prof. Jnedt.
Bamberg	28.85	732.8	29.68	753.9	60.8	16.0	50	nw.			3	0	8 ks		nw.	0.787	20.0		Prof. Dr. Hoh.
Berlin	29.54	750.3	29.68	753.8	64.0	17.8	42	w.			1		8			0.075	1.9		Meteorological Institute.
Breslau	29.22	742.3	29.75	755.6	58.6	14.8	71	wnw.			2		10			0.024	0.6		Royal University Obs'y
Carlsruhe	29.35	745.5	29.81	757.2	47.5	8.6	76	sw.			2		10		sw.	0.429	10.9	raining	Albert Senz.
Cassel	28.97	735.8	29.68	753.9	60.1	15.6	42	nw.			2		8		s.	0.740	18.8		Dr. H. Möhl.
Frankfort-on-the-Main			29.68	753.9	59.0	15.0	62	wsw.			4		7			0.016	0.4		Physical Society.
Friedrichshafen	28.32	719.2	29.74	755.5	45.0	7.2	80	w.			5		10		w.	0.602	15.3	rain & snow	Wilhelm, Chief Tel.
Hamburg	29.59	751.6	29.68	753.9	59.0	15.0	62	wsw.			4		7			0.016	0.4		E. Preller.
Kiel	29.63	752.5	29.64	752.9	56.5	13.6	58	wsw.			4		10			0.051	1.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.29	744.0	29.70	754.4	61.9	16.6	54	ssw.			1		10		wsw.	0.209	5.3		H. Leppig, Asst.
Magdeburg	29.48	748.8	29.67	753.5	62.6	17.0	61	sw.			1		10		ssw.	0.079	2.0		Dr. Assmann.
Memel	29.61	752.2	29.66	753.4	64.6	18.1	71	sse.			3		10 k					thndr & light'g	Issermann.
Munich	27.82	706.6	29.66	753.3	58.1	14.5	59	ne.			4		4	e.		0.028	0.7		Central Station.
Neufahrwasser	29.63	752.7	29.65	753.1	57.6	14.2	79	w.			2		10			0.071	1.8	raining	A. Lothes.
Neustadt, Palatinate	29.21	741.8	29.72	755.0	46.0	7.8	73	w.			2		10	n.		0.354	9.0	light rain	Dicknether.
Stuttgart	28.80	731.5	29.70	754.4	45.5	7.5	72	n.			1		10			0.630	16.0	rain & sleet	Prof. Dr. Schoder.
Wustrow	29.69	754.2	29.72	754.8	52.7	11.9	69	wnw.			3	0	8 s			0.012	0.3		Profs. Brandes & Reimer.
Greek.																			
Athens	29.62	752.4	29.99	761.8	77.4	25.2		s.			1.0	0	0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.55	750.6	29.60	751.9	86.2	30.1	82	wnw.	25.0	11.2			0			0	0	blue sky	
Deesa	29.10	739.1	29.54	750.4	105.9	41.1	18	w.	5.0	2.2			0			0	0	blue sky	
Bombay	29.68	753.8	29.71	754.7	86.9	30.5	63	wnw.	7.0	3.1			0			0	0	blue sky	
Poona, Yarrowda	27.85	707.3	29.62	752.5	98.8	37.1	16	nw.	22.0	9.8			1		wsw.	0	0	d. clouds	
Trichinopoly	29.52	749.7	29.79	756.8	87.7	30.9	57	sw.	2.0	0.9			8	nne.	ne.	0	0	d. clouds	
Belgaum	27.13	689.2	29.56	750.8	95.6	35.3	28	e.	8.0	3.6			8	e.	s.	0.10	2.5	d. clouds	
Lahore	28.74	729.9	29.44	747.7	104.1	40.1	13	n.	6.0	2.7			0			0	0	blue sky	
Roorkee	28.54	725.0	29.39	746.5	103.9	39.9	10	calm	8.0	3.6			0			0	0		
Agra	28.92	734.6	29.45	748.0	109.6	43.1	10	w.	4.0	1.8			1		w.	0	0	d. clouds	
Nagpur	28.52	724.5	29.50	749.4	108.1	42.3	15	wnw.	15.0	6.7			0			0	0	blue sky	
Jubbulpore	28.24	717.2	29.52	749.8	104.1	40.2	10	nw.	6.0	2.7			0			0	0	blue sky	
Lucknow	29.09	738.9	29.45	748.0	102.4	39.1	30	w.	6.0	2.7			0			0	0	blue sky	
Allahabad	29.15	740.3	29.44	747.8	105.6	40.9	13	nw.	1.0	0.4			0			0	0	blue sky	
Patna	29.31	744.5	29.49	749.1	91.2	32.9	50	e.	10.4	4.6			0			0	0	blue sky	
Hazaribagh	27.52	698.9	29.43	747.6	96.7	35.9	20	n.	9.8	4.4			1			0	0	d. clouds	
Cuttack	29.45	747.9	29.52	749.9	90.6	32.6	60	wnw.	10.0	4.5			9		wnw.			drizzling	
Calcutta, Alipore	29.45	748.1	29.47	748.6	89.7	32.1	70	s.	7.0	3.1			2			0	0	d. clouds	
Dhubri	29.47	748.6	29.59	751.6	69.8	21.0	92	ne.	12.4	5.5			6			1.00	25.4	d. clouds	
Chittagong	29.56	750.7	29.65	753.0	79.7	26.5	88	s.	10.6	4.7			10	s.		0.01	0.2	overcast	
Sibsagar	29.33	744.9	29.66	753.4	75.1	23.9	87	ne.	2.0	0.9			10	w.	w.	0.20	5.1	overcast	
Jeypore	28.11	714.0	29.47	748.6	104.6	40.3	17	wnw.	13.7	6.1			2		wnw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.19	716.0	.....	.....	101.5	38.6	21	se.	6	2.7	.....	6 ck	4	.....	.....	0	0	gloomy	
Zanzibar	.....	.....	29.89	759.2	84.9	29.4	52	sse.	7.2	3.2	.....	.....	6	s.	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.42	747.3	29.82	757.5	65.5	18.6	66	s.	5.6	2.5	.....	.....	9	.....	.....	0.185	4.7	.....	Prof. Giovanni Clodig.
Milan	29.20	741.6	29.71	754.6	58.6	14.8	74	e.	11.2	5.0	.....	.....	9	ssw.	.....	0.323	8.2	.....	Prof. G.V.Schiapparelli.
Padua	29.63	752.7	29.74	755.4	66.7	19.3	58	sse.	16.8	7.5	.....	.....	10	s.	.....	0.094	2.4	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.72	729.5	29.61	752.2	60.1	15.6	52	sw.	4.3	1.9	.....	.....	5	s.	.....	0.165	4.2	.....	Prof. F. F. Denza.
Genoa	29.59	751.5	29.78	756.4	54.9	12.7	89	s.	12.5	5.6	.....	.....	10	sw.	.....	0.787	20.0	.....	Prof. G. M. Garibaldi.
Mondovi	27.73	704.4	29.62	752.4	56.1	13.4	41	wnw.	.....	.....	4	.....	3	.....	.....	0.063	1.6	.....	Prof. D. C. Bruno.
Pesaro	29.77	756.2	29.82	757.4	70.2	21.2	91	s.	11.9	5.3	.....	.....	9	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.56	750.7	29.81	757.1	68.4	20.2	51	ssw.	.....	.....	6	.....	9	ssw.	.....	0.024	0.6	.....	Prof. Costantino Pittei.
Leghorn	29.67	753.7	29.76	755.8	64.4	18.0	71	s.	9.4	4.2	.....	.....	10	ssw.	.....	0.209	5.3	.....	Prof. P. Monte.
Rome	29.79	756.7	29.96	761.0	69.3	20.7	46	s.	17.4	7.8	.....	.....	8	.....	.....	0.039	1.0	.....	Prof. P. Tacchini.
Lecce	29.76	755.8	30.00	762.1	73.9	23.3	61	ese.	8.7	3.9	.....	.....	3	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.11	739.4	29.98	761.6	72.0	22.2	76	sw.	2.5	1.1	.....	.....	2	W.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.75	755.6	29.94	760.5	72.0	22.2	43	nw.	.....	.....	4	.....	6	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.79	756.6	30.03	762.8	72.9	22.7	38	ne.	5.6	2.5	.....	.....	4	.....	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	29.99	761.8	30.04	762.9	72.3	22.4	66	s.	3.1	1.4	.....	.....	4	sw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.50	749.4	30.02	762.4	67.6	19.8	57	sw.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	21.88	555.7	.....	.....	30.0	— 1.1	99	w.	.....	.....	6	.....	10	.....	.....	2.362	60.0	covered	Prof. P. F. Denza.
Valdobbia	21.84	554.7	.....	.....	30.0	— 1.1	87	sw.	.....	.....	7	.....	10	.....	.....	17.717	450.0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.86	758.5	29.89	759.4	48.6	9.2	90	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. Hattori.
Awomori	29.86	758.4	29.90	759.4	44.2	6.8	79	sw.	4.4	2.0	.....	0	0	.....	.....	0	0	clear	K. Ogawa.
Hamamatsu	29.72	754.9	29.75	755.6	62.7	17.1	90	ne.	.....	.....	2	.....	10 n	.....	.....	1.535	39.0	raining	
Kagoshima	29.73	755.0	29.74	755.3	69.0	20.6	94	w.	.....	.....	2	.....	10 s	.....	.....	0.134	3.4	overcast	G. Miyanohaza.
Kioto	29.57	751.1	29.74	755.5	63.5	17.5	96	nne.	0.9	0.4	.....	.....	10 n	.....	e.	0.270	6.9	light rain	M. Tojima.
Misaka	29.70	754.4	29.73	755.1	67.6	19.8	91	ne.	.....	.....	1	1 cs	7 s	w.	w.	0.024	0.6	cloudy	K. Masusaki.
Miyako	29.76	755.8	29.87	758.6	47.5	8.6	82	nne.	2.2	1.0	.....	0	0	.....	.....	0.028	0.7	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.54	750.3	29.74	755.4	65.0	18.3	95	calm	0	0	.....	2 c	7 s	sw.	n.	0.300	7.6	cloudy	S. Takehayashi.
Niigata	29.80	756.9	29.84	757.9	53.5	11.9	92	ne.	6.3	2.8	.....	0	2 ck;s	.....	.....	0.005	0.1	fair	M. Morita.
Nobiru	29.82	757.3	29.83	757.7	52.6	11.4	96	nnw.	4.3	2.0	.....	0	9 s	.....	nw.	0	0	cloudy	H. Midzushima.
Numazu	29.75	755.6	29.78	756.5	61.1	16.2	93	ene.	.....	.....	4	.....	10 n	.....	.....	0.567	14.4	raining	R. Kaneda.
Osaka	29.72	754.9	29.74	755.3	63.3	17.4	95	ene.	11.3	5.0	.....	.....	10 n	.....	.....	0.195	4.9	light rain	H. Omura.
Tokei Obs'y, Yeddo	29.76	755.9	29.83	757.8	57.9	14.4	98	nnw.	4.5	2.0	.....	.....	10 n	.....	n.	0.989	25.1	rainy	The Staff.
Wakayama	29.66	753.4	29.71	754.7	64.2	17.9	93	ene.	0.2	0.1	.....	.....	10 n;ck	.....	n.	0.158	4.0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.82	757.4	30.00	762.0	77.0	25.0	84	ne.	3.0	1.3	.....	9 ck	1 ks	nw.	.....	1.14	29.0	overcast	The Staff.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.0	62.2	16.8	67	s.	inap.	inap.	.....	9 pc	0	s.	.....	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.33	618.0	30.01	762.2	57.9	14.4	75	wnw.	2.0	0.9	.....	10 c	0	.....	.....	inap.	inap.	dense fog	Prof. M. Leal.
Mazatlan	29.71	754.6	29.97	761.2	69.0	20.6	75	ese.	1.6	0.8	.....	9 cs	0	sw.	.....	0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Zabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Y. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	70	21.1	84	n.	9.1	4.1	.....	2 c	0	se.	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.66	753.4	29.66	753.4	52.7	11.5	.....	ssw.	.....	.....	4	.....	.....	.....	.....	0.803	20.4	.....	
Groningen	29.59	751.5	29.64	752.9	53.2	11.8	.....	wsw.	.....	.....	4	.....	.....	.....	.....	0.532	13.5	.....	
Helder	29.64	752.8	29.64	752.8	50.2	10.1	.....	sw.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.65	753.0	29.65	753.0	55.0	12.8	51	sw.	.....	.....	3	.....	.....	.....	.....	0.016	0.4	.....	
Utrecht	29.64	752.8	29.69	754.0	56.3	13.5	50	ssw.	.....	.....	4	.....	5	.....	.....	0.016	0.4	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.8	.....	.....	78.8	26.0	87	nne.	1.0	0.4	.....	.....	8	.....	.....	0	0	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.32	744.7	29.38	746.3	61.2	16.2	55	sse.	7	3	.....	.....	7	.....	.....	0.315	8.0	.....	
Brono	29.67	753.6	29.71	754.6	64.4	18.0	42	s.	.....	.....	4	.....	6	.....	.....	0	0	.....	
Christiania	29.41	747.0	29.56	750.7	53.1	11.7	91	ne.	9	4	.....	.....	10	.....	.....	0.898	22.8	raining	
Gjesvaer	29.74	755.3	29.76	755.9	45.0	7.2	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.71	754.6	29.76	755.8	53.2	11.8	56	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	30.22	767.5	30.37	771.5	60.3	15.7	75	w.	4.9	2.2	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.16	740.6	30.16	766.1	58.3	14.6	52	wnw.	4.9	2.2	.....	.....	8	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.20	767.0	30.28	769.2	62.6	17.0	52	ene.	.....	.....	.....	.....	8	.....	.....	0.039	1.0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.88	758.9	30.22	767.6	57.4	14.1	56	nnw.	13.0	5.8	.....	.....	7	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.35	770.8	30.42	772.6	64.4	18.0	50	ssw.	3.1	1.4	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Serra da Estrella	25.32	643.0	30.24	768.1	31.6	— 0.2	100	wnw.	9.4	4.2	.....	.....	10	.....	.....	0.059	1.5	snow & fog	
RUSSIAN.																			
Akmolinski	28.69	728.7	29.72	754.8	70.0	21.1	26	w.	11	5	.....	3 c	0	.....	.....	0	0	.....	Major K. Lazarew.
Archangel	30.26	768.7	30.28	769.2	42.1	5.6	75	wnw.	4	2	.....	1 cs	0	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	30.17	766.3	30.08	763.9	69.8	21.0	74	wnw.	18	8	.....	0	8 kn	.....	.....	0	0	.....	
Astrakhan	30.30	769.5	30.21	767.4	77.7	25.4	18	sse.	16	7	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.18	766.6	30.13	765.4	72.5	22.5	39	nne.	9	4	.....	2 cs	0	.....	.....	0	0	.....	
Barnaul	29.26	743.3	29.76	755.8	55.6	13.1	31	nw.	9	4	.....	.....	10	.....	.....	0.031	0.8	light clouds	Meteorological Obs'y
Bieloserk	29.78	756.3	30.24	768.2	54.5	12.5	69	n.	4	2	.....	5 cs	0	.....	.....	0	0	.....	
Dorpat	29.63	752.7	29.87	758.7	60.1	15.6	73	e.	7	3	.....	.....	10 s	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.92	734.6	29.86	758.5	61.3	16.3	35	nw.	18	8	.....	0	5 k;ks	.....	.....	0	0	.....	Meteorological Obs'y.
Elisswetgrad	29.58	751.2	30.00	762.1	74.8	23.8	52	e.	9	4	.....	cs	7 k	.....	.....	0.012	0.3	.....	
Irkutsk	28.66	712.6	29.68	753.9	48.0	8.9	53	n.	.....	.....	3	.....	8	.....	.....	0	0	.....	
Kasalinsk	29.44	747.7	29.61	752.2	75.9	24.4	20	n.	9	4	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.86	758.5	30.12	765.1	73.2	22.9	32	wnw.	9	4	.....	0	4	.....	.....	0	0	.....	Observatory.
Kem	30.12	765.0	30.17	766.3	52.2	11.2	59	se.	22	10	.....	0	0	.....	.....	0	0	.....	
Kertch	29.97	761.3	30.00	761.9	64.2	17.9	78	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Snatyrew.
Kieff	29.34	745.2	29.95	760.8	71.6	22.0	51	se.	9	4	.....	c	3 ks	.....	.....	0	0	light clouds	Observatory.
Kostov	29.65	753.1	30.17	766.2	78.6	25.9	39	ssw.	7	3	.....	2 cs	0	.....	.....	0	0	.....	
Libau	29.64	752.8	29.66	753.4	67.6	19.8	63	ese.	11	5	.....	.....	10	.....	.....	0	0	.....	E. Quaas.
Lugan	29.86	758.5	30.04	763.0	77.9	25.5	20	ese.	34	15	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.66	753.3	30.11	764.7	75.4	24.1	29	ssw.	7.8	3.5	.....	0	7 ks	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.91	759.8	29.99	761.7	74.3	23.5	74	e.	4	2	.....	cs	6 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.80	756.8	29.88	759.0	28.8	— 1.8	94	e.	4	2	.....	.....	10	.....	.....	0	0	foggy	Iwanow.
Pekin, China	29.65	753.0	29.79	756.6	57.9	14.4	76	sw.	2.2	1.0	.....	0	1 k	.....	.....	0.102	2.6	.....	Physical Observatory.
Petro-Alexandrovsk	29.64	752.9	29.98	761.4	77.5	25.3	19	nw.	2.2	1.0	.....	.....	10 k	.....	.....	0	0	.....	
Petrozavodsk	30.00	761.9	30.19	766.9	49.5	9.7	71	se.	16	7	.....	0	1 s	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.33	744.9	29.81	757.1	68.4	20.2	57	s.	34	15	.....	2 cs	0	.....	.....	0.217	5.4	.....	
Poti	29.93	760.1	29.96	760.9	65.8	18.8	79	sw.	4	2	.....	0	2 ks	.....	.....	0	0	.....	
St. Petersburg	30.02	762.6	30.05	763.2	65.8	18.8	36	sse.	16	7	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.55	699.7	29.94	760.4	69.8	21.0	33	sw.	13	6	.....	0	1 k	.....	.....	0	0	.....	
Semipalatinsk	29.26	743.1	29.89	759.2	66.7	19.3	27	w.	9	4	.....	.....	2	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.77	756.1	29.99	761.8	60.8	16.0	76	nw.	16	7	.....	0	5 s	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.52	749.7	29.99	761.0	68.4	20.2	60	s	11	5			10 kn			0.130	3.3		
Tashkend	28.27	718.0	29.87	758.6	73.8	23.2	23	sw.	9	4		0	2 s			0	0		Terch, A. M.
Tiflis	28.67	728.1	30.03	762.8	75.7	24.3	29	se.	22	10		0	4 k			0	0		Physical Observatory.
Vernoe	27.32	693.9	29.74	755.4	64.4	18.0	55	w.	2	1			10 n			0	0		
Viatka	29.54	750.3	30.17	766.2	55.8	13.2	49	nw.	2	1			2			0	0		
Warsaw	29.27	743.5	29.68	753.8	68.2	20.1	56	wsw.	13	6		0	4 k			0.567	14.4		Astronomical Obs'y.
Yeniseisk	29.58	751.2	29.87	758.7	36.0	2.2	74	w.	2	1			7			0.035	0.9		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.76	755.9	43	6.1	91	ne.			6	5	5	n.		0.1	3.	showery	J. Youngclause.
North Unst			29.44	747.8				ne.			8		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.89	759.2	29.99	761.8	63.3	17.4	35	w.	7.8	3.5		0	0			0.059	1.5		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.87	758.8	29.93	760.3	57.9	14.4	57	nw.	4.0	1.8		1	8	n.		0.122	3.1	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.08	687.7	30.10	764.6	46.4	8.0	45	w.	8.3	3.7		0	5			0.098	2.5	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.9	30.13	765.4	50.7	10.4	40	nw.	17.9	8.0		0	7			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.90	759.4	30.07	763.8	67.6	19.8	50	ese.	4.3	1.9		2	3	w.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.21	742.0	30.10	764.4	48.2	9.0	60	e.	11.4	5.2		6 kn	4 n	e.	w.	0.039	1.0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.19	741.3	30.09	764.2	54.5	12.5	65	nw.	1.3	0.6			8			0.169	4.3	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761.8	30.06	763.5	75.2	24.0	74	se.	5.6	2.5		9 cs	0	wsw.		0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.5	29.88	759.0	84.9	29.4	70	e.	9.8	4.4		3 cs	2 ks			0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.11	764.7	30.21	767.2	59.5	15.3	55	n.	7.7	3.4		0	1		n.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.8	30.08	764.1	78.1	25.6	95	ne.	2.2	1.0			9 kn		ne.	0.079	2.0	raining	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.02	762.6	30.06	763.6	48.9	9.4	63	s.			2		5			0	0		
Umea	29.93	760 2	29.98	761.5	63.5	17.5	48	sw.			2		2			0	0		
Hernosand	29.87	758.8	29.93	760.1	54.3	12.4	59	e.			2		8			0	0		
Stockholm	29.58	751.4	29.76	755.9	51.1	10.6	98	ese.			6		10			0	0		
Wisby	29.60	751.9	29.66	753.4	64.8	18.2	58	sse.			4		0			0	0		
Sub-series.																			
Upsala	29.63	752.7	29.72	754.9	58.3	14.6	52	e.	10.7	4.8			10		sse.	0.165	4.2		S. G. Fineman.
SWISS.																			
Geneva	28.43	722.2	29.89	759.2	44.2	6.8	70	ssw.			1		10			0.606	15.4	covered	The Observatory.
TURKISH.																			
Constantinople			30.00	762.1	68.0	20.0	51	ne.	15	6.5			3		ne.	0	0		The Observatory.
Valona			30.13	765.4	72.5	22.5		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.00	762.1	74.8	23.8	63	sw.			2	c	7 k		w;sw	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.80	680.7			71	21.7	48						2 k		sw.	0	0	clear	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.06	763.5	30.14	765.5	53	11.7	52	s.	5	2.2			10 n		sw.	0.02	0.5	light rain	J. O. Barnes.
Alpena, Michigan	29.08	738.6	29.74	755 4	40	4.4	89	calm	0	0			10 s		se.	1.60	40.6	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	29.88	758.9	35	1.7	53	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.41	696.2	30.25	768.3	30	— 1.1	60	e.	12	5.4		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.00	736.6	30.17	766.3	67.5	19.7	82	se.	10	4.5		5 cs	0			0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	30.11	764.8	30.12	765.0	50	10.0	100	ne.	8	3.6			fg.			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	30.04	763.0	30.23	767.8	66	18.9	84	s.	1	0.4		2 c	0			0	0	clear	John Healy.
Baltimore, Maryland	30.10	764.5	30.15	765.8	58	14.4	69	ne.	5	2.2		hz.	0			0	0	clear	Geo. W Feiger.
Barnegat City, New Jersey	30.12	765.0	30.14	765.5	49.0	9.4	96	se.	14	6.3			fg.			inap.	inap.	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.72	754.9	29.74	755.4	30.7	— 0.7		nw.	13	5.8			10 n			inap.	inap.	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.71	729.2	30.27	768.8	32.0	0.0	76	n.	16	7.2		0	2 s		nw.	inap.	inap.	clear	A. Pritchard.
Benton, Fort, Montana	27.42	696.5	30.21	767.3	43	6.1	68	s.	12	5.4		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.90	683.2	30.08	764.0	37	2.8	64	e.	18	8.0		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.50	723.9	30.29	769.4	27	— 2.8	77	nw.	5	2.2		0	0			0.17	4.3	clear	Cyrus Cramer.
Block Island, Rhode Island	30.21	767.3	30.24	768.1	47	8.3	68	se.	14	6.3			10 n		w.	inap.	inap.	light rain	J. T. Elker.
Boise City, Idaho	27.20	690.9	30.04	763.0	51	10.6	74	n.	1	0.4		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.10	764.5	30.26	768.6	49.0	9.4	71	se.	8	3.6		3 ck	3 s			0	0	fair	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.91	759.7	77.5	25.3	89	s.	10	4.5		0	6 s		s.	0	0	fair	M. McCarty.
Buffalo, New York	29.08	738.6	29.82	757.4	66.8	19.3	55	s.	20	8.9		5 cs	5 ks	sw.	sw.	inap.	inap.	cloudy	W. Finn.
Buford, Fort, Dakota	28.41	721.6	30.39	771.9	27	— 2.8	77	ne.	2	0.9		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.77	756.1	30.06	763.5	51.0	10.6	59	s.	16	7.2			10 s		w.	0.01	0.3	cloudy	D. N. Farnell.
Cairo, Illinois	29.52	749.8	29.92	760.0	67.6	19.8	91	sw.	12	5.4			10 s		sw.	0.20	5.1	cloudy	W. H. Ray.
Cape Henry, Virginia	30.17	766.3	30.19	766.8	69	20.6	70	sw.	13	5.8		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.08	764.0	30.11	764.8	58.0	14.4	80	e.	7	3.1		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.21	741.9	29.89	759.2	47.5	8.6	89	calm			0	0	fg.			0.02	0.5	clear	J. J. McLean.
Cedar Keys, Florida	30.13	765.3	30.15	765 8	77	25.0	64	se.	12	5.4		4 ck	0			0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.15	765.8	30.20	767.1	73.0	22.8	82	sw.	5	2.2		0	4 k		s.	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.36	745.7	30.20	767.1	67.0	19.4	73	calm	0	0		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.12	765 0	68.0	20.0	87	s.	3	1.3		0	8 ks		s.	0.03	0.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	30.05	763.3	34.0	1.1	75	nw.	3	1.3		0	0			0.15	3.8	clear	E. McGovern.
Chicago, Illinois	28.98	736.1	29.68	753.9	58.0	14.4	92	s.	8	3.6		5 cs	4 s	sw.	s.	2.39	60.7	cloudy	John Laurens.
Chincoteague, Virginia	30.14	765.5	30.16	766.1	67	19.4	68	s.	8	3.6		0	hz.			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.26	743.2	29.92	760.0	72.0	22.2	57	sw.	8	3.6		8 cs	0	w.		0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.16	740.7	29.89	759.2	61	16.1	68	s.	3	1.3		4 cs	0	sw.		inap.	inap.	fair	J. B. Newlin.
Coleman City, Texas	28.17	715.5	29.96	761.0	68	20.0	70	sw.	1	0.4		9 cs	0			0.29	7.4	cloudy	T. J. Kenan.
Columbus, Ohio	29.05	737.9	29.89	759.2	69	20.6	61	s.	7	3.1		8 k	0	w.		0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.05	712.5	29.95	760.7	65.0	18.3	93	calm	0	0		0	5 s		s.	0	0	fair	J. McGlone.
Davenport, Iowa	28.98	736.1	29.62	752.3	61	16.1	78	w.	18	8.0		1 ck	6 ks	w.	sw.	0.99	25.1	fair	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.96	761.0	59	15.0	48	nw.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.24	717.3	29.99	761.7	52	11.1	74	sw.	4	1.8		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.61	650.5	30.13	765.3	27	— 2.8	82	ne.	6	2.7			10 s			0.05	1.3	cloudy	F. Willson.
Delaware Breakwater, Del.	30.12	765.0	30.14	765.5	55	12.8	93	ne.	7	3.1		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.89	632.2	30.05	763.3	41.0	5.0	76	s.	7	3.1		0	0			0.03	0.8	clear	F. M. Neal.
Des Moines, Iowa	28.90	734.0	29.79	756.7	50	10.0	77	n.	16	8.0			10 n		n.	0.05	1.3	light rain	F. W. Conrad.
Detroit, Michigan	29.10	739.1	29.80	756.9	57.0	13.9	86	s.	9	4.0			10 s			0.05	1.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.50	698.5	30.05	763.3	47	8.3	66	nw.	10	4.5		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	28 93	734.8	29.63	752.6	55.8	13.2	90	nw.	4	1.8			10 s			2.04	51.8	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.17	740.9	29.92	760.0	37	2.8	72	nw.	12	5.4		0	4 k		n.	0.14	3.6	fair	N. B. Conger.
Eagle Pass, Texas	29.17	740.9	29.97	761.2	70.0	21.1	90	se.	4	1.8			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.34	643.6	30.02	762.5	45	7.2	71	n.	10	4.5		3 k	0	n.		0.16	4.1	clear	H. R. Boynton.
Eastport, Maine	30.22	767.6	30.29	769.4	42.0	5.6	42	nw.	2	0.9			10 s		w.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.23	691.6	29.93	760.2	48	8.9	66	ne.	16	7.2		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.35	669.3	29.99	761.7	50.0	10.0	40	calm	0	0		5 cs	0	e.		0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.14	740.1	29.86	758.4	70	21.1	44	w.	20	8.9		5 cs	4 s	sw.	sw.	0.04	1.0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.04	737.6	29.70	754.4	39.0	3.9	94	calm	0	0			10 s			0.49	12.4	cloudy	George Heathcote.
Galveston, Texas	29.97	761.2	30.01	762.2	76	24.4	90	s.	11	4.9		0	8 ks		s.	inap.	inap.	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	28.99	736.3	29.65	753.1	60.0	15.6	87	se.	28	12.5		1 ck	9 ks		s.	1.51	38.4	threatening	J. E. Mueller.
Grant, Fort, Arizona	25.27	641.8	29.88	758.9	56.9	13.8	28	se	7	3.1			10 s			0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.24	768.1	30.26	768.6	66	18.9	93	sw.	8	3.6		0	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	25.92	658.4	30.09	764.3	45	7.2	41	e.	8	3.6		7 cs	0			0	0	fair	N. C. Smith.
Huron, Dakota	28.80	731.5	30.15	765.8	33	0.6	73	n.	22	9.8		0	0			0.02	0.5	clear	S. W. Glenn.
Indianapolis, Indiana	29.02	737.1	29.82	757.4	70.3	21.2	70	sw.	9	4.0			10 s		sw.	inap.	inap.	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.93	760.2	29.96	761.0	75.5	24.2	98	s.	8	3.6		0	5 ks		s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.79	731.3	29.94	760.5	60	15.6	95	n.	7	3.1		7 k	0	s.		0.34	8.6	fair	D. J. Carr.
Jacksonville Florida	30.15	765.8	30.19	766.8	71.0	21.7	84	se.	1	0.4		2 cs	3 s			0	0	fair	J. W. Smith.

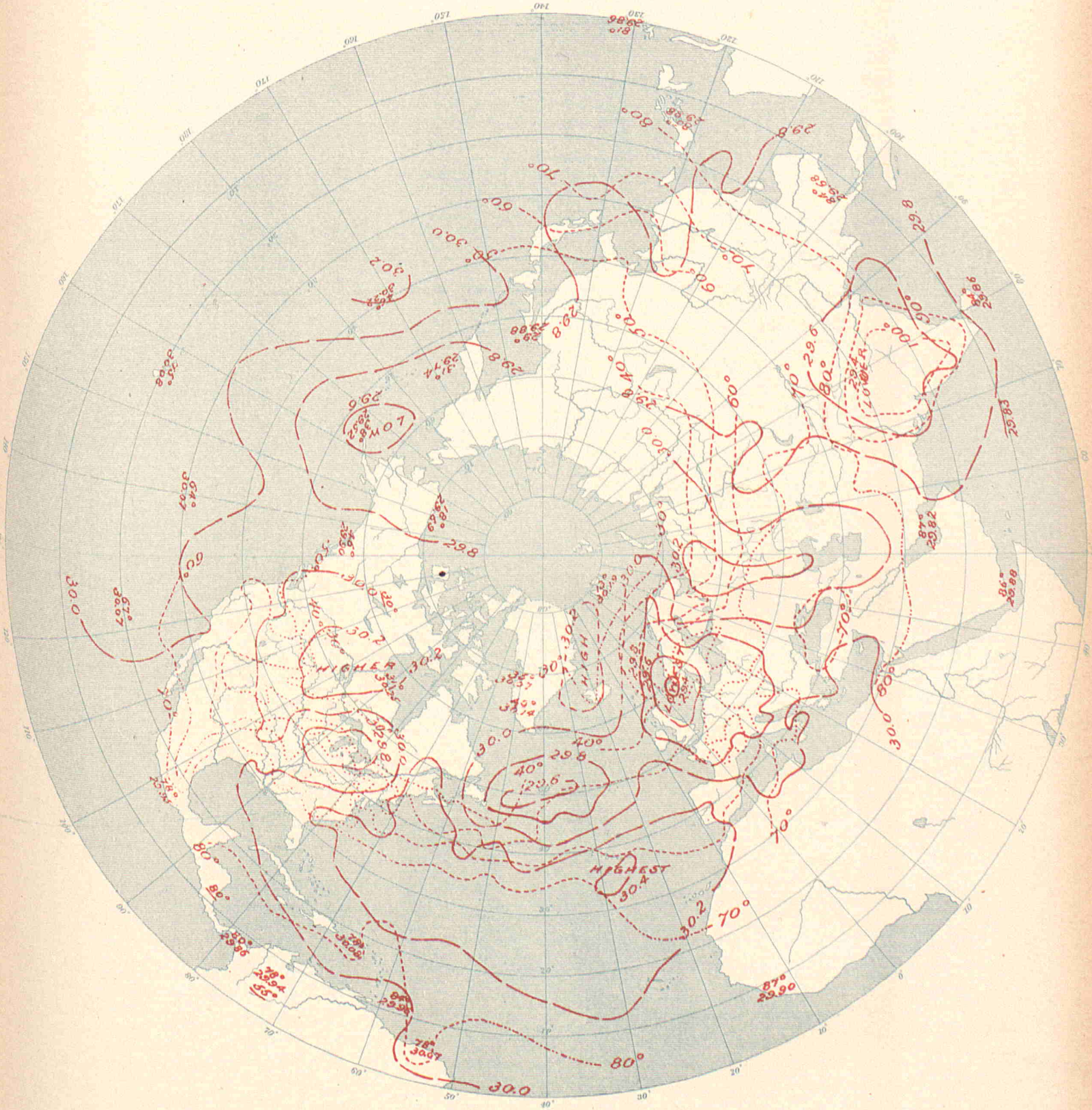
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.82	706.6	30.26	768.6	39	3.9	57	ne.	10	4.5	.....	8 k	2 s	.....	.....	0	0	cloudy	W. B. Lamar.
Keokuk, Iowa	29.03	737.3	29.68	753.9	63.0	17.2	68	sw.	16	7.2	.....	0	0	.....	.....	0.33	8.4	clear	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	77.0	25.0	76	e.	7	3.1	.....	3 c	2 n	w.	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.23	767.8	30.25	768.3	69	20.6	84	sw.	15	6.7	.....	0	hz.	.....	.....	0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.07	738.4	30.09	764.3	64.6	18.1	82	calm	0	0	.....	.....	7 k	.....	s.	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	28.98	736.1	29.74	755.4	45	7.2	83	n	16	7.2	.....	.....	10 n	.....	.....	0.30	7.6	light rain	S. C. Emery.
Leavenworth, Kansas	29.04	737.6	29.92	760.0	53	11.7	72	nw.	17	7.6	.....	.....	10 s	.....	nw.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.17	740.9	30.01	762.2	53.8	12.1	90	calm	0	0	.....	4 k	3 s	sw.	.....	0	0	fair	W. Bell.
Little Rock, Arkansas	29.67	753.6	29.98	761.5	66	18.9	93	nw.	3	1.3	.....	.....	10 n	.....	w.	1.70	43.2	heavy rain	W. U. Simons.
Los Angeles, California	29.60	751.8	30.00	762.0	56	13.3	86	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.34	745.2	29.89	759.2	71.5	21.9	68	s.	12	5.4	.....	.....	10 ks	.....	sw.	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.45	748.0	30.13	765.3	73	22.8	59	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.08	738.6	29 73	755.1	39.2	4.0	89	se.	7	3.1	.....	.....	fg.	.....	.....	0.36	9.1	dense fog	D. B. Notson.
Macon, Fort, North Carolina	30.24	768.1	30.26	768.6	70.0	21.1	90	sw.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.79	655.1	30.20	767.1	40	4.4	42	se.	6	2.7	.....	6 k	0	.....	.....	0	0	fair	F. Burke.
Marquette, Michigan	29.01	736.8	29.73	755.1	37	2.8	89	nw.	5	2.2	.....	.....	10 s	.....	nw.	0.42	10.7	cloudy	E. H. Thompson.
Memphis, Tennessee	29.63	752.6	29.96	761.0	66	18.9	90	s.	8	3.6	.....	.....	10 n	.....	.....	1.29	32.8	thund'r st'm	D. T. Flannery.
Milwaukee, Wisconsin	28.92	734.6	29.66	753.4	47	8.3	93	ne.	6	2.7	.....	.....	10 s	.....	.....	0.93	23.6	cloudy	W. Line.
Missoula, Fort, Montana	26.74	679.2	30.04	763.0	56	13.3	64	e.	8	3.6	.....	0	9 s	.....	.....	0	0	cloudy	J. H. Young.
Mobile, Alabama	30.08	764.0	30.12	765.0	73.2	22.9	89	se.	1	0.4	.....	0	1 ks	.....	se.	0	0	clear	C. A. Read.
Montgomery, Alabama	29.87	758.7	30.10	764.5	72.4	22.4	82	se.	2	0.9	.....	7 ck	0	w.	.....	inap.	inap.	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.17	740.9	30.15	765.8	31	— 0.6	77	n.	18	8.0	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.88	606.5	30.06	763.5	28.8	— 1.8	85	sw.	44	19.7	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	S. W. Beall.
Nashville, Tennessee	29.42	747.3	29.99	761.7	72.0	22.2	76	s.	11	4.9	.....	.....	10 ks	.....	s.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.08	764.0	30.20	767.1	47	8.3	77	se.	5	2.2	.....	.....	10 s	.....	se.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.13	765.3	30.18	766.6	46	7.8	83	e.	32	14.3	.....	.....	10 n	.....	e.	0.04	1.0	light rain	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.08	764.0	72.0	22.2	90	e.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	H. C. Smyth.
New York, New York	30.00	762.0	30.18	766.6	51	10.6	86	e	8	3.6	.....	.....	10s;fg	.....	.....	0.14	3.6	cloudy	G. E. Franklin.
Norfolk, Virginia	30.18	766.6	30.21	767.3	72	22.2	71	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.18	690.4	30.05	763.3	41.6	5.3	82	w.	5	2.2	.....	0	0	.....	.....	0.40	10.2	clear	E. F. Brady.
Olympia, Washington T'y.	29.99	761.7	30.03	762.7	43.0	6.1	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.79	731.3	29.95	760.7	48.4	9.1	83	n.	27	12.1	.....	.....	10 ks	.....	n.	0.30	7.6	cloudy	A. Pollak.
Ogglaamie, Alaska	29.67	753 6	29.69	754.1	18.0	— 7.8	100	ne.	5	2.2	.....	.....	fg.	.....	.....	0	0	dense fog	P. H. Ray.
Oswego, New York	29.57	751.1	29.90	759.4	56.5	13.6	63	s.	17	7.6	.....	7 cs	0	w.	.....	0.02	0.5	fair	J. G. Linsley.
Palestine, Texas	29.45	748.0	30.00	762.0	73.0	22.8	90	s.	11	4.9	.....	.....	10 k	.....	sw	0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	75.8	24.3	75	s.	8	3.6	.....	0	3 k	.....	s.	0	0	clear	M. McGauran.
Philadelphia, Pa	30.05	763.3	30.15	765.8	53	11.7	93	e.	5	2.2	.....	.....	10 s	.....	ne.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.90	454.7	29.96	761.0	15	— 9.4	76	w.	19	8.5	.....	0	0	.....	.....	0.08	2.0	clear	H. Hall.
Pioche, Nevada	24.04	610.6	29.96	761.0	45.5	7.5	49	s.	3	1.3	.....	10 cs	0	sw.	.....	0	0	cloudy	F. R. Day.
Pittsburg, Pennsylvania	29.15	740.4	29.95	760.7	72.0	22.2	53	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Poplar River, Montana	28.20	716.3	30.32	770.1	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.09	738.9	29.77	756.1	55.0	12.8	69	s.	9	4.0	.....	.....	10 s	.....	w.	0.20	5.1	cloudy	M. H. Perry
Portland, Maine	30.22	767.6	30.27	768.8	52.5	11.4	58	se.	4	1.8	.....	10 cs	0	w.	.....	inap.	inap.	cloudy	W. W. Eichelberger
Portland, Oregon	29.86	758.4	29.93	760.2	53.2	11.8	86	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	67	19.4	73	s.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	29.85	758.2	36.5	2.5	57	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	30.25	768.3	30.28	769.1	52	11.1	59	se.	6	2.7	.....	0	5 s	.....	w.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	72	22.2	73	e.	7	3.1	.....	7 c	0	w.; e.	.....	inap.	inap.	fair	W. J. Evans.
Red Bluff, California	29.57	751.1	29.92	760.0	56	13.3	93	n.	2	0.9	.....	5 cs	0	s.	.....	0	0	fair	J. R. Williams.
Rochester, New York	29.21	741.9	29.87	758.7	63	17.2	59	sw.	22	9.8	.....	7 c;ck	hz.	w.	.....	inap.	inap.	fair	E. W. McGann.
Roseburg, Oregon	29.37	746.0	29.92	760.0	48	8.9	87	calm	0	0	.....	10 c	0	w.	.....	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.84	757.9	29.92	760.0	55.5	13.1	86	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.22	742.2	29.81	757.2	62.7	17.1	90	s.	12	5.4	.....	9 cs	0	sw.	.....	0.09	2.3	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.65	753.1	29.68	753.9	39	3.9	89	ne.	13	5.8	.....	.....	10 c	.....	.....	0.03	0.8	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.02	737.1	29.86	758.4	40.0	4.4	73	n.	20	8.9	.....	4 k	5 ks	w.	n.	0.04	1.0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.34	745.2	30.20	767.1	29	— 1.7	77	nw.	13	5.8	.....	0	0	.....	.....	0.03	0.8	clear	C. B Dilley.
Salt Lake City, Utah	25.69	652.5	30.01	762.2	49	9.4	46	calm	0	0	.....	6 c	0	.....	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.26	743.2	29.96	761.0	73	22.8	90	e	1	0.4	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. H. Davis.
San Diego, California	29.90	759.4	29.97	761.2	56.3	13.5	86	sw.	3	1.3	.....	.....	10 n	.....	.....	inap.	inap.	light rain	A. C. Dobbins.
Sandy Hook, New Jersey	30.12	765.0	30.15	765.8	50.0	10.0	93	se.	15	6.7	.....	10 k	0	se.	.....	0.36	9.1	cloudy	B. A. Blundon.
Sanford, Florida	30.11	764.8	.....	.....	71.5	21.9	82	calm	0	0	.....	3 ck	4 k	.....	se.	0	0	fair	J. B. Marbury.
San Francisco, California	29.88	758.9	29.95	760.7	51.5	10.8	86	w.	6	2.7	.....	.....	fg.	.....	w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23 34	592.8	29.95	760.7	41	5.0	48	ne.	1	0.4	.....	4 c	0	.....	.....	0	0	fair	H. U. Jones.
Savannah, Georgia	30.12	765.0	30.21	767.3	73	22.8	76	se.	2	0.9	.....	3 c	hz.	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26 44	671.6	30.04	763.0	40	4.4	73	n.	3	1.3	.....	6 k	0	.....	.....	0.05	1.3	fair	A. L. Mathews.
Shreveport, Louisiana	29.73	755.2	29.97	761.2	74.0	23.3	90	s.	4	1.8	.....	.....	10 ks	.....	s.	inap.	inap.	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.82	732.0	30.04	763.0	65.5	18.6	76	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.84	757.9	29.90	759.4	46.1	7.8	83	calm	0	0	.....	0	3 s	.....	.....	0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.51	749.5	29.98	761.5	63.5	17.5	78	nw.	4	1.8	.....	0	5 s	.....	w.	0.23	5.8	fair	J. B. Campbell.
Smithville North Carolina	30.21	767.3	30.25	768.3	71	21.7	84	sw.	5	2.2	.....	1 k	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.02	711.7	30.07	763.8	48.7	9.3	93	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.05	737.9	29.72	754.9	65	18.3	73	sw.	14	6.3	.....	5 c	3 s	sw.	w.	0.35	8.9	cloudy	T. B. Jennings.
Springfield, Missouri	28.51	724.1	29.93	760.2	56	13.3	80	nw.	8	3.6	.....	2 ck	3 s	nw.	w.	0.02	0.5	fair	J. H. Bryce.
Starkville, Miss	29.61	752.1	30.08	764.0	68	20.0	90	s.	11	4.9	.....	3 k	4 s	sw.	s.	0.26	6.6	fair	O. Dill.
Stevenson, Fort, Dakota	28.48	723.4	30.31	769.9	26	— 3.3	88	nw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	A. Schneider.
Stockton, Fort, Texas	27.00	685.8	30.01	762.2	47	8.3	71	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.21	767.3	30.26	768.6	51.0	10.6	83	se.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.26	692.4	29.93	760.2	46	7.8	50	w.	.....	.....	1	5 cs	0	e.	.....	0	0	fair	J. T. Fitzgerald.
Toledo, Ohio	29.14	740.1	29.82	757.4	59	15.0	87	s.	4	1.8	.....	.....	10 n	.....	sw.	0.03	0.8	light rain	A. Buell.
Tucson, Arizona	27.56	700.0	29.90	759.4	54	12.2	34	s.	5	2.2	.....	5 c	0	.....	.....	0	0	fair	J. L. Whiteside.
Unalaska, Alaska	29.50	749.3	29.52	749.8	38	3.3	82	sw.	4	1.8	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	45	7.2	36	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.80	756.9	30.06	763.5	67.5	19.7	92	se.	7	3.1	.....	9 k	0	sw.	.....	0.10	2.5	cloudy	James Kenealy.
Visalia, California	29.51	749.5	29.88	758.9	56.0	13.3	88	nw.	1	0.4	.....	.....	10 s	.....	nw.	0	0	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.60	624.8	30.08	764.0	41.8	5.4	85	nw.	1	0.4	.....	7 k	0	sw.	.....	0.21	5.3	fair	T. M. Ambler.
Washington, D. C.	30.03	762.7	30.14	765.5	55.0	12.8	93	ne.	3	1.3	.....	6 k	hz.	ne.	.....	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	26.21	665.7	30.06	763.5	37.5	3.1	68	nw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	F. H. Brandenburg.
Williamsport, Pa	29.48	748.8	30.08	764.0	59	15.0	51	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.19	766.8	30.24	768.1	70	21.1	84	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.59	650.0	29.94	760.5	47	8.3	71	e.	12	5.4	.....	0	4 s	.....	sw.	0	0	fair	J. Grover.
Yankton, Dakota	28.70	729.0	29.98	761.5	37	2.8	72	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.73	755.1	29.88	758.9	56.5	13.6	80	e.	1	0.4	.....	1 cs	0	sw.	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	55.0	12.8	74	se.	8	3.6	.....	.....	10 ks	.....	w.	0.06	1.5	foggy	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.00	762 0	.....	.....	67	n.	2	0.9	.....	2 cs	0	.....	.....	0	0	clear	Robirt Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	91	se.	.....	.....	2	6 k	8 ps	e.	.....	0.040	1.0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	78	25.6	89	calm	.....	.....	0	.....	10 ks	.....	calm	0.04	1.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	80	26.7	89	ne.	.....	.....	1	2 ks	9 n	ne.	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Walloe.
Santiago de Cuba, W. I	29.99	761.7	30.02	762.5	78	25.6	74	n.	6	2.7	.....	9 c	0	.....	.....	0	0	.....	R. Mason.
York Factory, B. A	30.19	766.8	30.25	768.3	30.5	— 0.8	95	nw.	13	5.8	.....	1 c	1 s	nw.	nw.	0	0	.....	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No 1—North Atlantic.																		
H. M. S. Alexandra, Malta, Mediterranean	30.08	764.0	65	18.3	84	nne.			1		6	nne.						d. clouds.
H. M. S. Dido. Barbadoes, W. I.	29.86	758.4	82	27.8		ene.			4		1	w				2	e.	blue sky.
H. M. S. Flamingo, N. 28° 35′, W. 69° 00′	30.27	768.8	72	22.2	90	e.			3		4	.e.				3	e.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.94	760.5	70	21.1	85	nne.			2		1							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.11	764.8	60	15.6	71	s.			5		0							blue sky.
H. M. S. Rocket, N. 36° 40′, W. 35° 40′	30.37	771.4	70	21.1	70	ssw.			4		3							d. clouds
H. M. S. Tyne, Balize, British Honduras	29.92	760.0	80	26.7	87	e.			3		10	e.				1	e.	overcast.
H. M. S. Tenedos, Halifax, N. S.	30.29	769.4	47	8.3	79	nw.			1		3							blue sky.
U. S. Navy Yard, Pensacola, Fla	30.08	764.0	76	24.4	77	sse.	4	1.8			5		sse.	0	0			fair.
U. S. Navy Yard, Portsmouth, N.H.*	30.21	767.3	52	11.1	73	se.	4	1.8			10		se.	0	0			cloudy.
U. S. S. Alliance, Norfolk, Va	30.20	767.1	69	20.6	85	sw.			2		0			0	0			clear.
U. S. S. Colorado, New York, N. Y	30.26	768.6	51	10.6	85	s.	6	2.7			10			0	0			overcast.
U. S. S. Franklin, Norfolk, Va	30.20	767.1	70	21.1	85	wsw.	12	5.4			0			0	0			clear
U. S. S. Jamestown, N. 33° 37′, W. 75° 45′	30.12	765.0	74	23.3	59	sse.			3		5		se.			sm'h		fair.
U. S. S. Kearsarge, Norfolk, Va	30.24	768.1	69	20.6	95	sw.			2		0							clear.
U. S. S. Lancaster, N. 57° 20′, E 11° 26′	29.50	749.3	51	10.6	100	s.			4		10		sw.			sm'h		hazy.
U. S. S. Michigan, Lake Erie	29.83	757.7	53	11.7	93	sw.			4		10		se.					cloudy.
U. S. S. Minnesota, New York, N. Y	30.20	767.1	52	11.1	93	e.			2		10							overcast.
U. S. S. New Hampshire, Newport, R. I	30.23	767.8	50	10.0	65	se.			2		10		calm			sm'h		cloudy.
U. S. S. Portsmouth, Long Island, N. Y	30.27	768.8	45	7.2	92	ese.			5		10		se.			sm'h		cloudy.
U. S. S. Powhatan, N. 13° 58′. W. 77° 15′	29.93	760.2	83	28.3	91	ene.			4		5					mod.	e.	fair
U. S. S. Quinnebaug, Monrovia, Liberia, Africa	29.94	760.5	83	28.3	79	sw.			2		5		sw.			long	s.	fair.
U. S. S. Saratoga, N. 29° 25′. W. 65° 36′	30.30	769.6	71	21.7	90	nne.			6		2		ne.	0	0	long	ne.	fair.
U. S. S. St. Louis, League Island, Pa.	30.15	765.8	53	11.7	80	ene.	4.7	2.1			10			0	0			cloudy.
U. S. S. Swatara, N 16° 28′, W. 84° 37′ †	29.91	759.7	81	27.2	83	e.			3		8		e.	0	0	long	se.	fair
U. S. S. Tennessee, Fort Monroe, Va	30.21	767.3	70	21.1	80	wsw.	5	2.2			0			0	0			clear.
U. S. S. Vandalia, Hampton Roads, Va	30.17	766.3	67	19.4	95	sw.			3		0							clear.
U. S. S. Wabash, Boston, Mass.	30.27	768.8	55	12.8	65	se.	2	0.9			5		e.	0.01	0.3			fair.
U. S. S. Yantic, Norfolk, Va	30.22	767.6	70	21.1	80	sw.			2		0							clear
Commewyne, N. 35° 48′, W. 47° 58′	30.26	768.6	67.7	19.8	92	sw.			2		9							d. clouds.
S. S. British Crown, N. 41° 08′, W. 52° 34′ †	30.12	765.0	50	10.0		wnw.			3		1		nw.	0	0	sll't	wsw.	
S. S. British Prince, N. 40° 50′, W. 46° 45′ †	30.15	765.8	54	12.2		nw.			5		10		nw.	0	0	mod.	w.	cloudy.
S. S. Illinois, N. 48° 05′, W. 27° 03′*	29.81	757.2	61	16.1		sw.			2		9		sw.			sm'h	sw.	cloudy.
S. S. Lord Gough, N. 51° 25′ W. 8° 57′	29.89	759.2	48	8.9		nw.			3		5		nw.	shr's	shr's	sm'h		
S. S. Ohio, Liverpool, Eng †	29.69	754.1	44	6.7	92	nnw.			5		10		nnw.	12 h'r	12 h'r			cloudy.
S. S. Pennsylvania, Philadelphia, Pa †	30.10	764.5	57	13.9		wsw.			3		5		e.					clear?
S. S. Circassian, Montreal, Canada	30.08	764.0	43	6.1	92	ne.			5		10		w.					raining.
S. S. Grecian, Montreal, Canada	30.09	764.3	44	6.7	76	e.			5		10		sw.	0	0			overcast.
S. S. Nova Scotian, N. 44° 55′ W. 46° 10′	30.00	762.0	39	3.9		wsw.			5		2		sw.			r'gh	w.	clear.
S. S. Polynesian, N. 45° 52′, W. 50° 20′	29.95	760.7	38	3.3		w.			8		0			0	0	r'gh	w.	clear.
S. S. Manitoban, N. 50° 52′, W. 37° 20′	29.60	751.8	50	10.0	93	s.			5		6?		w.	0	0	mod.	wsw.	overcast?
S. S. Jason, N. 44° 22′ W. 38° 32′			55.4	13.0		w.			6		6 k					8	wnw.	raining.
S. S. Alvo, Kingston, Jamaica, W. I.	30.03	762.7	79	26.1		calm			0		10 k		calm	0	0			fine.
S. S. Alene, N. 11° 05′, W. 81° 13′ †	29.95	760.7	81	27.2		ne			4		5		e.	0	0	mod.	ne.	fine.
S. S Ailsa, N. 18° 30′, W. 66° 29′			78	25.6		ne.			4		0							
S. S. Assyria, N. 40° 04′, W. 33° 56′	30.22	767.6	62	16.7		sw.			6		10			3 h'r	3 h'r	r'gh	sw.	overcast.
S. S. Bolivia, N. 47° 11′, W. 37° 05′ *†	29.81	757.2	57	13.9		sw.			4		10		sw.	4 h'r	4 h'r	mod.	w.	overcast
S. S. Dorian, N. 35° 26′, W. 63° 38′	30.33	770.4	69	20.6		w.			2		0			0	0	sm'h		clear.
S. S. Devonia, N. 44° 16′, W. 45° 57′*†	29.94	760.5	43	6.1		w.			6		0					long	wnw.	clear.
S. S. Furnesia, N. 52° —′, W. 7° —′ †	29.78	756.4	62?	16.7?	98	nw.			4		8		nw.	0	0	sm'h		
S. S. Elysia, N. 41° 26′, W. 46° 20′	30.05	763.3	53.8	12.1	80	wnw.			4		10		nw	½ h'r	½ h'r	mod.	wnw.	cloudy.
S. S. Llandaff City, N. 49° 16′, W. 32° 50′ †	29.55	750.6	54	12.2		ssw.			5		9		w.	0	0	high	w.	cloudy.
S. S. Pavonia, N. 48° 31′, W. 24° 28′	29.80	756.9	61	16.1	88	sse.			3		10			14 h'r	14h'r	mod.	ese.	foggy.
S. S. Ville de Marseilles, N. 20° 50′, W. 93° 00′			79	26.1		sse.			4		0			0	0	long	ene.	clear.
S. S. Wisconsin, N. 45° 35′, W. 37° 40′			56	13.3		sw.			5		10		wsw.	20 h'r	20 h'r	mod	wsw.	cloudy.
S. S. Wyoming, N. 41° 30′, W. 60° 30′	30.23	767.8	49	9.4		n.			4		0			0	0	mod.	w.	clear.
S. S. Bohemia, Hamburg, Germany						sw.			3-5		10		sw.	12 h'r	12 h'r			raining.
S. S. Silesia, N. 41° 28′, W. 59° 10′	30.29	769.4	53.5	11.9		nw.			5		0			0	0	3	wnw.	clear.
S. S. Westphalia, New York, N. Y			53	11.7	93	w.			4		6		w.	2 h'r	2 h'r			fair.
S. S. City of Paris, N. 43° 13′, W. 37° 20′ *	29.85	758.2				ssw.			4		2		ssw.	0	0	mod.	ssw.	fine.
S. S. Colorado, New York, N. Y †	30.18	766.6	50	10.0		ene.			2		10		ene.	2 h'r	2 h'r			cloudy.
S. S. Rio Grande, Galveston, Texas*†	30.03	762.7	76	24.4		s.			2		10		s.	0	0			overcast.
S. S. Chalmette, N. 24° 38′, W. 83° 10′†	30.14	765.5	80	26.7		ese.			3		4		e.	0	0	mod.	ese.	fair.
S. S. Lone Star, N. 29° 16′ W. 79° 45′ †	30.17	766.3	76	24.4		se.			3		3		se.	0	0	mod.	var.	clear.
S. S. Alleghany, Montank, Long Island †	30.31	769.9	46	7.8		se.			2		4		s.			light	s.	fair.
S. S. Archimede, New York Bay, N. Y †	30.20	767.1	62	16.7	61	e.			2		4		se.	1 h'r	1 h'r			fair.
S. S. Denmark, N. 41° 40′, W. 46° 21′	30.01	762.2	52	11.1		nw.			6		5		nw.	0	0	sll't	nw.	fair.
S. S. Egypt, N. 42° 44′, W. 42° 18′*†	30.05	763.3	50	10.0		nw.			5		10		nw.	3 h'r	3 h'r	mod.	wnw.	cloudy.
S. S. Helvetia, N. 40° 44′, W. 51° 20′	30.21	767.3	59	15.0	82	nne.			1		5		nne.	1 h'r	1 h'r	sm'h	sw.	fair.
S. S. Donau, N. 41° 34′, W. 62° 09′	30.38	771.6				nnw.			3		5		nnw.	½h'r	½h'r	sm'h	nnw.	fair.
S. S. Elbe, N. 40° 51′ W. 59° 34′	30.29	769.4	57	13.9	83	e.			2-3		5			0	0	sm'h	e.	fair.
S. S. Hohenzollern, N. 50° 12′, W. 3° 10′*	29.69	754.1	42.8	6.0		nw.			4		10		n	2 h'r	2 h'r	light	nw.	overcast.
S. S. Hohenstaufen, N. 44° 57′, W. 40° 55′	29.80	756.9				wnw.			6		7		wnw.			sm'h	wnw.	drizzling.
S. S. Main, N. 40° 18′, W. 69° 41′	30.23	767.8	40.4	8.0		ese.			4		8		sse	0	0	sm'h	s.	hazy.
S. S. Neckar, N. 49° 11′, W. 15° 16′	30.11	764.8	51.0	10.6	59	nnw.			4		5		nnw.	rain	rain	mod.	nnw.	fair.
S. S. Ocer, N. 53° 44′, E. 6° 02′	29.63	752.6	52.7	11.5		sw.			5		2		sw.	4 h'r	4 h'r	light	sw.	clear.
S. S. Ohio, N. 42° 13′, W. 41° 29′	30.00	762.0				w.			4		9		w.			sm'h	w.	rainy.
S. S. Salier, N. 44° 57′, W. 45° 00′ *†	29.94	760.5	48	8.9		nw.			6		9		nw.	3 h'r	3 h'r	high	nw.	fair.
S. S. Strassburg, N. 52° 54′, E. 4° 06′	29.68	753.9	53.5	11.9	90	sw.			4		8		sw.	3 h'r	3 h'r	3	sw.	cloudy.
S. S. Weser, N. 42° 04′, W. 49° 02′	30 21	767.3				wsw.			2		2		w.	2 h'r	2 h'r	mod.	w.	clear.
S. S. Orinoco, Bermuda, Atlantic*†	30.30	769.6	74	23.3		ene.			3		1		e.	0	0			clear
S. S. Muriel, Martinique, W. I	29.97	761.2	81	27.2		e.			2		0			0	0	sm'h		clear.
S. S. City of Augusta, New York, N. Y †	30.13	765.3				se.			3		8		sse.	0	0			smoky
S. S. Belgenland, Schelde river, Netherlands			48	8.9	85	wnw.			6		6		n.	0	0	sm'h		fair.
S. S. Nederland, N. 42° 13′, W. 61° 23′			43	6.1	83	w.			2		5		w.	0	0	sm'h	w.	fair.
S. S. Rhynland, N. 46° 58′, W. 31° 04′	29.80	756.9	54	12.2	61	w.			4		10		nw.	20 h'r	20 h'r	mod.	nw.	foggy.
S. S. Pennland, Antwerp, Belgium	29.79	756.7	56	13.3	75	se.			4		2		w.	0	0			clear.
S. S. Waesland, Jersey City, N. J	30.19	766.8	55	12.8		ene.			2		10			0.21	5.3			overcast.
S. S. Zeeland, N. 41° 40′, W. 45° 00′ *†	30.04	763.0	56	13.3		nw.			5		10		nw.	0	0	mod.	w.	overcast.
S. S. P. Caland, Rotterdam, Holland	29.67	753.6	56.5	13.6	76	ssw.			4		6		s.					fair.
S. S. Leerdam, N. 41° 50′, W. 59° 12′	30.27	768.8	53	11.7	100	nw.			4		0			0	0	mod.	w.	clear.
S. S. Rotterdam, N. 47° 58′ W. 29° 12′	29.83	757.7	60	15.6	83	nnw.			3		8		nw.	6 h'r	6 h'r	4	wnw.	cloudy.
S. S. Schiedam, N. 40° 30′, W. 69° 40′	30.23	767.8	51.6	10.9	83	e.			5		8		se.	0	0	sm'h		cloudy.
S. S. W. A. Scholten, New York, N. Y	30.16	766.1	53.0	11.7	86	ene.			2		10			7 h'r	7 h'r			hazy.
S. S. Caracas, N. 14° 50′, W. 67° 28′†	30.02	762.5	82	27.8	83	ene.			6		3		ene.	0	0	mod.	ene.	clear
S. S. Valentia, N. 33° 18′, W. 71° 47′†	30.48	774.2	73.5	23.1	81	s.			2		3		sse.	0	0	mod.	s.	clear.
S. S. State of Florida, N. 48° 24′, W. 34° 45′			58	14.4		wsw.			3		9		w.			mod.	sw.	cloudy.
S. S. State of Nevada, N. 45° 47′, W. 41° 41′ †	29.83	757.7	52	11.1		nw.			5		1		nw.	2 h'r	2 h'r	mod.	w.	clear.
S. S. Lepanto, N. 39° 03′, W. 9° 28′ *	30.32	770.1	56	13.3		nnw.			3		2		n.	0	0	h'vy	nw.	clear.
S. S. Marenko, N. 49° 35′, W. 15° 25 †	30.12	765.0	51	10.6		wsw.			6		4		calm	2 h'r	2 h'r	mod.	sw.	fair.
S. S. Otranto, N. 42° 37′, W. 51° 28′	30.27	768.8	47	8.3		sw.			6		2		w.	h'vy	h'vy	long	w.	clear.
S. S. Romano, N. 40° 13′, W. 59° 22′†	30.25	768.3	56	13.3		n.			4		3		n.			mod.	nnw.	clear.
S. S. Salerno, Port Said, Egypt †	30.00	762.0	68	20.0		calm			0		0			0	0	sm'h		clear.
S. S. Toronto, N. 52° 22′, W. 6° 18	29.71	754.6	46	7.8		nnw.			4		0			0	0	sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1.—North Atlantic.—Continued.																		
S. S. Oregon, N. 48° 19′, W. 48° 54′	29.52	749.8	35	1.7		wsw.			6		6		wsw.			mod.	wsw.	fair.
S. S. Lake Manitoba, off Skirries Ireland	29.81	757.2	53	11.7		nnw.			4		7		nnw.	1 h'r	1 h'r	mod.	n.	hailing.
S. S. Daniel Steinmann, N. 40° 34′, W. 67° 03′†	30.30	769.6	52	11.1		ene.			1		0			0	0	light	ssw.	hazy.
S. S. Norman, Philadelphia, Pa						ne.			1		0			0	0			clear.
S. S. Saxon, N. 42° 05′, W. 70° 02′†	30.25	768.3				s.			3		10		sw.	0	0			threatening.
S. S. Baltic, N. 45° 05′, W. 40° 47′*	29.81	757.2	50	10.0	93	nw.			6		8		nw.	sq'lls	sq'lls	r'gh	nw.	squally.
S. S. Celtic, N. 43° 05′, W. 54° 12′†	30.16	766.1	51	10.6		wsw.			4		1		wsw.	0	0	light	w.	clear.
S. S. Iowa, N. 41° 27′, W. 47° 58′ †	30.18	766.6	48	8.9		nnw.			4		8		wnw.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Antonio Lopez, Porto Rico, W. I	30.09	764.3	77.5	25.3	80	e.			4		6			1 h'r	1 h'r	sm'h		squally.
Schr. Abbie H. Gheen, N. 39° 20′, W. 74° 00′ †	30.17	766.3	54	12.2		e.			3					0	0			clear.
Bg. Abbie Clifford, N. 18° 11′ W. 65° 43′†	30.06	763.5	80	26.7		ne.			5		5		ne.	0	0			fair.
Bk. Aquidneck, N. 31° 23′, W. 71° 15′						var.			4				var.	0	0	light	e.	clear.
Bk. Alpha, N. 39° 20′, W. 58° 30′*†	30.20	767.1	66	18.9		nne.			4		8		ne.	0	0	sm'h		cloudy.
Bg. Alcira, N. 21° 30′, W. 65° 54′	30.15	765.8	81	27.2		ene.			6		3		ene.	0	0	mod.	n.	clear.
Bk. Adelaide, N. 31° 23′, W. 45° 57′			75	23.9		se.			4		1		se.	0	0	light	se.	clear.
Schr. Annie R. Lewis, N. 23° 20′ W. 62° 58′†	30.24	768.1	82	27.8		e.			3		3		e.	shr's	sh'rs	long	nne.	clear.
Schr. Authur Burton, N. 39° 22′ W. 72° 40′*†	30.04	763.0				sse.			1		2		calm	0	0	mod	sse.	fine.
Bk. Achille F, N. 27° 30′, W. 24° —††	30.31	769.9	65	18.3	71	nne.			5		4		nne.	rain	rain	long	var.	fair.
Bg. Annie R. Storer, Turk.'s Island, W. I†	30.10	764.5				e.			5		4		e.	0	0	long	n.	fair.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.95	760.7	81	27.2		ene.			1		2		ene.	1 h'r	1 h'r			fair.
Bk. Champion, N. 20° 47′, W. 46° 50′			78	25.6	65	ene.			4		2		ene.	0	0	long	ene.	clear.
Bkt. C. S. Bushnell, N. 34° 48′ W. 58° 48′	30.32	770.1				ne.			2		0?			0	0	sm'h		fair.?
S. Cornelius, N. 49° 46′, W. 23° 14′†	29.88	758.9	53.4	11.9		ese.			6		10			0	0	long	ne.	misty.
Bk. Commerce, N. 37° 55′, W. 73° 45′†	30.07	763.8	60	15.6		wsw.			4		0			0	0	sm'h	wsw.	fine.
Bg. Childwall, N. 10° 30′, W. 37° 36′			78	25.6		nne.			6		4		ne.	0	0	light	ne	hazy.
Schr. Glotilde, N. 40° 06′, W. 73° 32′*†	30.06	763.5	53	11.7		se.			3		fg.			0	0	mod.	se.	foggy.
S. David Stewart, N. 35° 38′, W. 65° 29′†	30.25	768.3				baff			1		0			0	0			clear.
S. S.D. J. Foley, N. 30° 40′, W. 74° 45′ *†	30.25	768.3	74	23.3	70	ese.			3		3		ese.	0	0	sm'h		clear.
Bk. David A. Preston, N. 38° 22′, W. 67° 40′			70	21.1		wsw.			2		2		w.	0	0	short		
Schr. Edith R. Seward, N. 18° 14′, W. 76° 00′ †	30.10	764.5	78	25.6		ese.			2		5		e.	0	0	mod.	e.	fair.
S. E. J. Spicer, Liverpool, Eng	29.65	753.1	46	7.8	92	nnw			6		10		nw.	12 h'r	12 h'r			overcast.
Bk. E. D. Bigelow, Bay of Fundy, N. S						ne.			2		8		wnw.	0	0			cloudy.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	30.20	767.1	63	17.2	94	nne.			1		1		calm	0	0			clear.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.17	760.3				se.			4					0	0			clear.
S. Festina Lente, Near Magdalen Island, Canada	30.06	763.5	34	1.1		wnw.			7		0			0	0	mod.	nnw.	clear.
Bk. George Davis, N. 33° 25′, W. 73° 08′									4				se.	0	0	sm'h	se.	fair.
Bg. Gipsy Queen, N. 30° —, W. 78° 50′ *†	30.15	768.8				se.			5							mod.	e.	fair.
Bk. Godeffroy, N. 35° 48′ W. 75° 23′*	30.25	768.3	63.0	17.2	98	wsw.			3					rain	rain	sm'h	s.	foggy.
Bk. Galeon, N. 20° 49′, W. 90° 33′ †	29.92	760.0	76	24.4		e.			3		0			0	0	sm'h	ne.	blue sky.
S. Hedwig, N. 37° 42′, W. 50° 03′	30.25	768.3	66.9	19.4	87	wsw.			4		5		w.	0	0	3	nw.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C*†	30.18	766.6	72	22.2		calm			0		6		sw.	0	0			fine.
Bk. John H. Pearson, N. 33° 00′, W. 43° 42′						s.			1				s.	0	0	long	nnw.	clear.
Schr. Isabel Alberto, N. 38° 35′, W. 74° 09′ †	30.18	766.6				sw.			2		0			0	0	light	sw.	hazy.
Bk. Cato, N. 38° 20′, W. 10° 40′*†	30.25	768.3				nnw.			3		1		nnw.	0	0	long	nnw.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	30.12	765.0				calm			0		0			0	0			clear.
Schr. Jennie N. Huddell, Chesapeake Bay†	30.14	765.5	72	22.2	95	s.			1		0			0	0			clear.
Bkt. Josephine, N. 9° 09′, W. 48° 05′ †	29.98	761.5	84	28.9	68	ne.			5		2		ne.	0	0	long	ne.	fair.
Schr. Leonessa, N. 36° 56′, W. 75° 58†	30.11	764.8				wsw.			1		0			0	0	mod.	se.	clear.
Bg. L. & W. Armstrong, San Juan, Porto Rico, W. I*†	30.10	764.5				ne.			2		3		ne.	0	0	sm'h		
Light-house Tender Laurel, Appalachicola Bay Fla†	30.15	765.8	76	24.4		ese.			2		4		se.	0	0			fair.
Bg. Lillian, N. 20° 30′, W. 57° 40′†	30.02	762.5	79	26.1		ese.			1		3		se.	½h'r	½h'r	mod.	var.	fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.97	761.2	78	25.6		calm			0		2			0	0			clear.
S. S. Madrid, Ancona, Italy†	29.90	759.4	68	20.0	74	w.			3		8		w.	0	0			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga†	30.23	767.8	81	27.2		calm			0		0			0	0			clear.
Bkt. Kryolith, N. 58° 12′ W. 42° 20′ *†	29.88	758.9				e.			8		10			0	0	h'vy	e.	overcast.
S. Mt Washington, N. 16° 17′, W. 32° 05′ *†	30.28	769.1	78	25.6	73	ene.			6		10		ene.	rain	rain	r'gh	ene.	cloudy.
Bk. Mathais, N. 38° 09′, W. 66° 58′ *†	30.41	772.4	68	20.0		ese.			2		2			0	0	mod.	sw.	hazy.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†	30.01	762.2							4		4		ene.	0	0	short	ne.	
Schr. Maud Briggs, N. 29° 00′, W. 60° 47′*†	30.28	769.1				ene.			0		8		ene.	1 h'r	1 h'r	sm'h	ne.	fair.
Bg. O. C. Clary, N. 38° 40′, W. 74° 33′*†	30.05	763.3	62	16.7		ssw.			3		1		sw.			sm'h	sw.	clear.
Bk. Ottawa, N. 39° 14′, W. 71° 00′*	30.03	762.7	51	10.6		ese.			4		fg.			½h'r	½h'r	small	ne.	dense fog.
S. S. Raleigh, Baracoa, Cuba, W. I†	30.10	764.5	75	23.9		ne.			2		3		ne.					clear.
S. Rudolph, N. 48° 26′, W. 19° 26′			53.0	11.7		sse.			5		9		s.	6 h'r	6 h'r	long	var.	cloudy.
Bk. Rebus, N. 46° 29′, W. 26° 05′	29.81	757.2	56	13.3		ssw.			5		7		sw.	3 h'r	3 h'r	long	var.	light rain.
Bg. Rising Sun, N. 32° 46′, W. 71° 40′*†	30.30	769.6	75	23.9		se.			1		1		sse.	0	0	mod.	sse.	
Bk. Rosalie, N. 17° 39′ W. 61° 08′*†	30.09	764.3				ese.			4					3½h'r	3½hr	mod.	ne.	cloudy.
S. Salisbury, N. 47° 04′, W. 10° 03′*	30.07	763.8	54.7	12.6	79	nw.			3		4		nw.	sq'lls	sq'lls	long	nne.	fair.
Bk. Southern Belle, Huelva, Portugal†	30.14	765.5	65	18.3		n.			3		0			0	0			clear.
S. St. Francis, N. 19° 30′, W. 39° 00′†	30.35	768.3	76	24.4	74	ne.			0		4		ne.	0	0	mod.	ne.	fair.
S. S. Lawrence, N. 21° 09′, W. 57° 18′*†	30.05	763.3				ese.			4				ese.	0	0	mod.	ne.	fine.
Bk. Strathleven, N. 36° 50′, W. 1° 58′	30.09	764.3	59.2	15.1	79	ssw.			2		0			0	0	1	sw.	blue sky.
Bgt. Sunlight, N. 10° 24′, W. 56° 44′						ese.			4		9		ese.	1 h'r	1 h'r	mod.	ese.	raining.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	29.94	760.5				n.			1		1							
Bk. Usko, N. 38° 04′, W. 65° 00′*	30.14	765.5	69	20.6		ese.			2		2		se.	0	0	mod.	w.	clear.
S. Vincenzo Accame, N. 36° 36′ W. 50° 30′.†	30.34	770.7	71.6	22		calm			0		0			0	0	light		clear.
Schr. Viola Reppard, Baltimore, Md†	30.05	763.3	72	22.2		ene.			2		4		calm	0	0			fair.
Bk. Winifred, N. 18° 07′, W. 56° 02′*†	30.10	764.5											se.	0	0		se.	clear.
S. Wm. McGilvery, N. 24° 56′, W. 38° 30′ *†	30.30	769.6	73	22.8	81	ese.			4		4		se.	sq'lls	sq'lls	mod.	ne.	squally.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.14	765.5	58.5	14.7	94	nnw.			3		10							drizzling.
H. M. S. Boadicea, Cape Town, Cape Colony	29.90	759.4	64	17.8	94	nw.			2		4							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.98	761.5	53	11.7	86	nw.			2		9							d. clouds.
U. S. S. Thetis, S. 31° 14′, W. 42° 23′	30.09	764.3	67	19.4	84	calm			0		5					3	sw.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.97	761.2	55	12.8	87	n.	9	4 0			10		calm	0	0	sm'h		cloudy.
U. S. S. Enterprise, Simon's Town, Cape Colony*	29.73	755.1	65	18.3	68	n.			5-6		5		n.			sm'h		fair.
U. S. S Galena, Montevideo, Uruguay*	29.97	761.2	54	12.2	87	nnw.			2		10		nnw.			sm'h		cloudy.
May Hulse, S. 57° 08′, W. 66° 14′	29.60	751.8	39.5	4.2	82	sw.			4		6							drizzling.
S. S. Jerome, Amazon River, Brazil *	29.75	755.6	78	25.6		ne.			1		1		s.	0	0			clear.
S. S. Archimedes, S. 11° 06′, W. 36° 16′	29.90	759.4				e.			3		2		ne.	5 h'r	5 h'r	mod.	e.	clear.
S. S. Hevelius, Montevideo, Uruguay†	30.07	763.8	59	15.0		nnw.			3		9		n.	0	0			cloudy.
S. S. Ptolemy, S. 22° 30′, W. 41° 30′	30.11	764.8	75.6	24.2	84	sw.			3	90s	k	wsw.		se.		3	ese.	cloudy.
Bk. Gronsvaer, S. 1° 45′, W. 34° 08′†	29.89	759.3	82.5	28.1		se.			4		7		se.	2 h'r	2 h'r	mod	se.	fair.
S. Minnie N. Gerow, S. 26° 40′ W. 33° 12′†	30.08	764.0	70	21.1		nw.			3		10		n.			sm'h	s.	raining.
S. S. Mendoza, S. 4° 07′, W. 35° 09′†	30.05	763.3				ese.			4				ese.	0	0	sm'h	ese.	clear.
S. Paramita, S. 44° 34′, W 44° 21′†	29.47	748.5	48	8.9		sw.			1		4		var.	1 h'r	1 h'r			fair.
S. Storm King, S. 46° 14′, W. 57° 38′ *†	29.65	753.1				ssw.			5		2		wsw.	0	0	r'gh	sw.	clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.76	755.9	63	17.2	89	nw.			1		8		nw.					drizzling.
H. M. S. Champion, N. 13° 22′, E. 100° 34′	29.68	753.9	84	28.9	100	ssw.			6		4		ssw.			2	ssw.	squally.
H. M. S. Sappho, N. 8° 50′, W. 79° 31′			80	26.7	100	nw.			1		5		nw.					d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 05′	29.72	754.9	53.5	11.9	100	e.			2		10							raining.
H. M. S. Swiftsure, Esquimalt, V. I	30.09	764.3	49	9.4	85	calm			0		10		ssw.					overcast.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Zephyr, N. 37° 36′ E. 122° 00′	29.75	755.6	52	11.1		w.			2		1							misty.
H. P. M. S. Tamega, Macao, China	29.82	757.4	84.2	29.0	81	s.			5		5			1 h'r	1 h'r			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.88	758.9	58.5	14.7	97	calm			0		10			1.34	34.0			raining.
U. S. S. Adams, Malcom Id, Alaska†	30.02	762.5	44	6.7	92	wsw.			1		2					sm'h		clear.
U. S. S. Monocacy, Tama-no-wra Bay, Japan	29.71	754.6	68	20.0	90	calm			0		10		calm					cloudy.
U. S. S. Palos, Hong Kong, China	29.68	753.9	82	27.8	87	ssw.			3		8		ssw.					cloudy.
U. S. S. Richmond, Hong Kong, China†	29.67	753.6	83	28.3	91	ene.			3		8		sw.	0	0			cloudy.
S. S. Mexico, N. 25° 11′, W. 112° 48†	29.98	761.5	62	16.7	88	nw.			1		1		nw.			sm'h		clear.
S. S. Coptic, N. 40° 42′, W. 145° 29′	30.04	763.0	55.5	13.1	93	sw.			4		10		sw.	4 h'r	4 h'r	sm'h	w.	overcast
S. S. Oceanic, N. 40° 36′, E. 170° 52′*	30.22	767.6	46	7.8	84	sw.			4		6		sw.			3	w.	fair.
S. S. City of Chester, Cape Mendocino, Cal †	29.95	760.7	49	9.4	93	nw.			4		10			0	0			overcast.
S. S Oregon, N. 40° 39′, W. 124° 35′†	29.99	761.7	52	11.1	86	nw.			1		5		nw.			sm'h		fair.
S. S. Ancon, N. 34° 24′, W. 120° 22′†	29.96	761.0	54	12.2	93	wnw.			2		10					mod	wsw.	overcast.
S. S. Dakota, Tacoma, Wash. Ter †	30.01	762.2	49	9.4	85	calm			0		5		nw.	0	0	sm'h		fair.
S. S. Australia, N. 30° 16′, W. 141° 14′	30.07	763.8	64	17.8	83	calm			0		5			0	0			clear.
S. S. City of New York, N. 21° 44′, W. 157° 20′†	30.08	764.0	75	23.9	77	ne.			4		10		ne.	0	0	sm'h		cloudy.
S. S. City of Pekin, N. 33° 35′, E. 136° 30′			65	18.3	94	nne.			5		10		ne.	light	light	mod.	ne.	misty.
S. E. B. Sutton, N. 20° 00′, W. 124° 00†	30.07	763.8	67	19.4		ne.			2		9			0	0	sm'h	nnw.	cloudy.
S. S. Colima, Champerico, Mexico †	29.93	760.2	76	24.4	91	ne.			2		6		n.	0.50	12.7	mod.		fair.
S. S. Granada, Acapulco, Mexico †	29.95	760.7	78	25.6	86	calm			0		1		ne.	0	0	small	w.	clear.
S. S. San José, Panama, Panama †	29.88	758.4	80	26.7		nw.			1	2 c	0	nw.		0	0			clear.
S. S. Gordon Castle, N. 22° 44′, E. 116° 16′*	29.76	755.9	79.0	26.1	95	s.			3–4		5		s.			4	ssw.	foggy.
S. Armenia, N. 22° 10′, W 125° 30′*	29.97	761.2	66	18.9	79	s.			1		10			0	0	sm'h		overcast.
S. S. Benledi, Hong Kong, China *	20.75	755.6	82	27.8	96	s.			3–6		7		s.	sh'rs	sh'rs	sm'h		fair.
Bk. Bore, S. 6° 10′, E. 118° 22′*†	30.25	768.3	86	30.0		ese.			2									
S. Grecian, N. 0° 46′, E. 130° 20′†	29.86	758.4	81	27.2	91	sw.			3		8	se	nw.	1 h'r	1 h'r	sm'h	n.	cloudy.
S. Titan, N. 18° 24′, W. 125° 32′*†	30.05	763.3	72	22.2	90	nne.			4		2		ne.	0	0	sm'h	ne.	clear.
Bk. Xenia, N. 15° 35′, E. 115° 19′			87	30.6		se.			4		2		se.	0	0	sm'h	se.	clear.
S. S. Columbia, N. 42° 40′, W. 122° 44′†	29.52	749.8	51	10 6	93	ne.			2		10		ese.	0	0	sm'h	ne.	cloudy.
U. S. S. Ranger, N. 13° 34, W. 89° 45′	29.92	760.0	84	28.9	64	nne.			2		2		calm	0	0	long	s.	hazy.
District No. 4—South Pacific.																		
H. M. S. Diamond, S. 33° 50′, E. 152° 01′			61	16.1	94	s.			6		6	s.				6	se.	squally.
H. M. S. Espiegle, S. 18° 44′, E. 178° 20′	30.02	762.5	77	25.0	61	ese.			4		4							d. clouds.
H. M. S. Kingfisher, S. 17° 29′, W. 149° 49′	29.86	758.4	80	26.7		calm			0		3							d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.94	760.5	59	15.0		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	30.13	765.3	58	14.4	100	sw.			2		9							showery.
U. S. S. Hartford, S. 9° 45′, W. 149° 48′*	29.82	757.4	80	26.7	91	calm			0		10			h'vy	h'vy	sm'h		covered.
U. S. S. Iroquois, Valparaiso, Chili	30.02	762.5	58	14.4	88	e.			1		10					sm'h		cloudy.
U. S. S. Lackawanna, S. 40° 12′, W. 135° 20′*	30.32	770.1	57	13.9	75	nne.			3		2		ne.			long	ne.	clear.
U. S. S. Onward, Callao, Peru*†	30.08	764.0	63	17.2	89	calm			0		10							misty.
U. S. S. Pensacola, Callao, Peru*	29.93	760.2	64	17.8	83	calm	0	0			10			0	0			misty.
U. S. S. Wachusetts, S. 12° 54′, W. 170° 44	29.87	758.7	79	26.1	95	se.			5		5		se.			long	e.	fair.
S. S. City of Sydney, Sydney, N. S. W *†	30.30	769.6	55	12.8	87	s.			3		10			0.5	13.			cloudy.
S. S. Zealandia, Sydney, N. S. W	30.34	770.6	59	15.0	87	sw.			6		10							raining.
Bk. Chas. Stewart, S. 43° 50′, E. 147° —′ †	30.71	780.0	50	10.0		ssw.			5		5		sw.	sh'rs	sh'rs	r'gh	sw.	squally.
S. David Crocket, S. 42° 53′, W. 91° 41′*	29.94	760.5	52	11.1	90	se.			7		9		se.	9 h'r	9 h'r	long	ese.	gloomy.
H. M. S. Lark, S. 25° 30′, E. 154° 28′	30.04	763.0	69.3	20.7	95	sse.			7		10					7	se.	squally.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.78	756.4	86	30.0		ene.			2									blue sky.
H. M. S. Euryalus, N. 6° 25′, E. 79° 50′	29.76	755.9	84	28.9	79	sw.			3		3	ssw.				4	sw.	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.93	760.2	81	27.2	96	se.			2		4	sse.				5	sse.	d. clouds.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.81	757.2				ssw.			4		0					1	s.	blue sky.
H. M. S. Woodlark, N. 26° 46′, E. 52° 49′	29.72	754.9	87	30.6	92	nnw.			1		2	n.						misty.
U. S. S. Juniata, N. 26° 25′, E. 56° 38′†	29.71	754.6	87	30.6	92	wsw.			3		1			0	0	sm'h		hazy.
Bk. Alpheus Marshall, S. 33° 24′, E. 29° 26′*†	29.80	756.9				n.			3		4		n.	0	0	high	sw.	fair.
S. Annie M. Law, S. 19° 31′ E. 77° 21′*†	30.05	763.3	78	25.6		ese.			1		1		ese.	0	0	long	ssw.	clear.
S. S. Burswell, N. 13° 05′, E. 43° 18′ *†	29.79	756.7	91	32.8		sse.			3		4		sse.	0	0	sm'h		fair.
Bk. Ceylon, S. 26° 41′, E. 48° 43′ *†	30.06	763.5	78	25.6	82	se.			3		1		s.	0	0	mod.	se.	clear.
S. Dynomine, S. 35° 00′ E. 28° 30′	29.79	756.7	68	20.0	79	nnw.			2		6			sli't	sli't	str'g	wsw.	misty.
S. S. Malabar, N. 10° 31′, E. 62° 06′						ne.			2		0			0	0	mod.	sw.	clear
Bk. Pilgrim, Anjer, Persia*†	29.95	760.7				ne.			3		3		ne.	3 h'r	3 h'r			clear.
S. S. Radnorshire, N. 10° 54′ E. 66° 41′*†	29.83	757.7				wnw.			4		6		nw.	0	0	mod.	s.	fair.
S. St. David, S. 31° 40′ E. 95° 20′*†	29.83	757.7	62	16.7	94	wnw.			7		4		w.	4 h'r	4 h'r	long	sw.	rainy.
S. S. Foscolio, N. 7° 28′, E. 72° 12′*†	29.81	757.2				var.			7		10		var.	14 h'r	14 h'r	r'gh	var.	raining.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 11, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.12	765.0	67.3	19.6	76	n.			3		0			0	0	clear	Malaterre.
Algiers			30.08	764.0	64.6	18.2	55	ne.			5		4			0	0	cloudy	Thève.
La Calle			30.06	763.4	63.3	17.4	80	ne.			5		4			0	0	cloudy	Fonfrède.
Tunis			30.04	762.9															Jacques.
Saida			30.08	764.1															Pérès.
Tebessa			30.03	762.7	71.6	22.0	29	se.			3		3			0	0	pretty fair	St. Martin.
Gerville					73.0	22.8	14	sse.			4		3			0	0	pretty fair	Forfert.
Laghouat			29.98	761.5	75.6	24.2	33	ne.			3		4			0	0	cloudy	Abraham.
Biskra			30.02	762.4	87.1	30.6	31	nw.			1		4			0	0	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			30.51	774.9	49.6	9.8	86	s.	6	2.7			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.45	773.4	30.54	775.7	50.8	10.4	87	sse.	5	2.2			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.42	747.2	29.95	760.8	66.2	19.0	37	s.			4		2			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.12	739.7	29.88	759.0	57.9	14.4	48	wsw.	16.1	7.2			0			0	0		Dr. Wierzbiski
Eperies	28.99	736.3	29.84	758.0	64.0	17.8	55	calm			0		10 ks			0.142	3.6		Julius Mikolik.
Gratz	28.71	729.2	29.94	760.5	60.4	15.8	39	w.			2		4			0	0		Andreas Rospini.
Hermannstadt	28.46	722.8	29.84	757.9	67.3	19.6	74	se.			3		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.65	727.6	29.98	761.5	54.9	12.7	41	wsw.			3		6			0.189	4.8	fair	The Staff.
Lemberg	28.81	731.8	29.74	755.4	76.8	24.9	38	sw.			5		9			0	0		Dr. T. Stanecki.
Neu Schmecks	26.51	673.4	29.85	758.3	51.1	10.6	62	sw.			5		1			0.276	7.0		Dr. V. von Szontagh.
Pola	29.85	758.2	29.93	760.2	62.8	17.1	64	w.			4		2			0	0		I. R. Hydrographic Office.
Szathmar	29.36	745.7	29.81	757.2	75.7	24.3		sw.			4		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.63	752.7	29.91	759.7	63.0	17.2	55	nw.			2		10			0	0		Karl Stancel.
Trieste	29.62	752.4	29.92	759.9	57.6	14.2	69	w.			1		1			0	0		Royal Academy.
Vienna	29.25	743.0	29.96	761.0	60.4	15.8	33	w.			4		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.36	745.7	29.46	748.3	51.7	10.9	39	wsw.	25	11.2			4			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.54	750.3	29.78	756.4	50.0	10.0	49	w.	12	5.4			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.81	757.2	47.7	8.7	58	w.	30	13.4			2					blue sky	John Hartnup.
Bolton, Sharples	29.26	743.2	29.80	756.9	45.8	7.7	60	wsw.	30	13.4			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.37	746.0	29.76	755.9	48.1	8.9	46	w.			3		4			0.13	3.3	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	85.0	29.4	64	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.76	755.9	29.86	758.4	51.8	11.0	57	nw.			1.0		9					overcast	John McLaren.
Chatham, School M. E.	29.78	756.4	29.91	759.7	49.1	9.5	58	sw.			2		9					misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.77	756.1	30.01	762.2	49.7	9.8	63	wsw.			3		10					overcast	The Staff.
Fort Napier, Natal	27.45	697.2	29.67	753.6	84.0	28.9	18	s.			1		4					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	89.0	31.7	53	w.			1		3					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.79	756.7	29.83	757.7	49	9.4	64	sw.			1		4			0.06	1.5	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.09	764.3	30.15	765.8	62.8	17.1	90	e.			3		3					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.46	748.3	29.66	753.4	46.9	8.3	57	w.			7		9					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.73	755.1	29.90	759.4	52.3	11.3	55	sw.			5		7					d. clouds	The Staff.
Guernsey	29.76	755.9	30.06	763.5	50.1	10.1	66	w.			5		8					gloomy	A. Collenette, F. M. S.
Kew, Observatory	29.88	758.9	29.92	760.0	49.4	9.7	60	sw.	19	8.5			8					d. clouds	The Staff.
Leicester, Museum	29.62	752.3	29.89	759.2	38.6	3.7	86	w.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	69.2	20.7	96	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.04	763.0	30.08	764.0	80.0	26.7	68	e.			2		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.34	745.2	29.87	758.7	41.8	5.4	85	sw.			3		10					threatening.	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.66	753.4	29.89	759.2	49.4	9.7	56	wsw.			3		9					threatening	The Staff.
Plymouth	29.92	760.0	29.99	761.7	47.4	8.6	88	nw.			1		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.14	740.1	29.24	742.7	45.2	7.3	90						3					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.82	757.4	29.89	759.2	74.4	23.6	48	n.			2		1					blue sky	W. H. Lyne.
Sheffield	29.54	750.3	29.82	757.4	48.0	8.9	79	wsw.			3		9			0.15	3.8	overcast	W. F. Cooper.
Silloth Rectory	29.68	753.9	29.72	754.9	47.2	8.4	73	w.			4		5			c.285	7.2	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.79	756.7	45.0	7.2	65	w.	25	11.2			7			blank	blank	d. clouds	W. C. Carlisle.
Truro, Royal Institution	29.96	761.0	30.02	762.5	51	10.6	79	sw.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.79	756.7	29.81	757.2	46.3	7.9	86	ese.	25	11.2			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.65	753.1	30.05	763.3	70.8	21.6	39	nw.	6.8	3.0		2 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.09	764.3	30.13	765.3	42	5.6	76	se.	8	3.6			10 s			0.025	0.6	cloudy	H. J. Cundall, C. E
Chatham, N. B*	30.04	763.0	30.11	764.8	40	4.4	92	se.	3	1.3		8 cs	2 ks	se.	se.	0.09	2.3	cloudy	G. A. Blair.
Cowzwall, Ontario	29.57	751.1	29.77	756.1	54.8	12.7	92	w.			1		10 s			0.923	23.4	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.05	763.3	30.10	764.5	33.5	0.8		e.			3		10 n					raining	H. A. Johnson.
Father Point, Quebec*	29.94	760.5	29.96	761.0	34	1.1	79	ne.	35	15.6			10 n			0.04	1.0	light rain	J. McWilliams.
Fort Garry, Manitoba*	29.41	747.0	30.28	769.1	30	— 1.1	88	n.	10	4.5			10 ks		nw.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.95	760.7	30.02	762.5	43.1	6.2	67	e.	8	3.6			10 s			0.050	1.3	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.99	736.3	29.12	739.6	35.0	1.7	100	w.	9	4.0		0	0			0.37	9.4	blue sky	Jas. Grant.
Halifax, N. S*	30.01	762.2	30.15	765.8	42	5.6	79	se.	14	6.3			10 k		s.	0.014	0.3	cloudy	A. Allison.
Hamilton, Ontario	29.66	753.4	30.06	763.5	45.1	7.3	84	sw.			3	2 k	0	w.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.59	751.6	29.93	760.2	43	6.1	74	w.	12	5.4		2 c	5 k	w.	w.	0.43	10.9	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.11	764.8	30.15	765.8	44.5	6.9	58	calm			0		10 n			0	0	overcast	C. H. McLeod, C. E.
Montreal, Quebec*	29.54	750.3	29.75	755.6	55	12.8	90	w.	16	7.2			10 ks		w.	0.39	9.9	cloudy	C. H. Rigby.
Ottawa, Ontario	29.55	750.6	29.80	756.9	46.1	7.8	96	w.			2		10 s			0.48	12.2	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.27	743.4	29.98	761.5	37	2.8	61	w.	22	9.8		2 k	0	w.		0.29	7.4	fair	Rev. R. Mosley.
Peterboro, Ontario	30.07	763.8	29.81	757.2	47.7	8.7	15	nw.			2	5 cs	0	nw.		0.300	7.6	fair	J. Dixon, B. A.
Port Dover, Ontario	29.42	747.3	30.13	765.3	39	3.9	73	w.	10	4.5		0	0			0.17	4.3	clear	H Morgan.
Port Stanley, Ontario	29.47	748.5	30.14	765.5	39	3.9	73	w.	10	4.5		0	0			0.53	13.5	clear	M. Payne.
Quebec, Quebec*	29.45	748.0	29.81	757.2	38	3.3	92	n.	12	5.4			10 n			0.42	10.7	light rain	Capt. Ashe, R. N
Rockliffe, Ontario*	29.39	746.5	29.86	758.4	38	3.3	85	nw.	8	3.6			8 ks		nw.	0.30	7.6	fair	W. H. McIntyre.
St. Andrews, N. B	29.92	760.0	29.97	761.2	42	5.6	74	se.	8	3.6			10 n			0.03	0.8	cloudy	
St. John, N. B	29.80	756.9	29.97	761.2	43.0	6.1	67	se.	7	3.1			10 s			0	0	overcast	G. Murdock, C. E.
Saint John's, N. F	29.81	757.2	30.07	763.8	36	2.2	100	nw.			4	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F			30.08	764.0	42.1	5.6		n.			0					0	0		The Commandant
Saugeen, Ontario*	29.31	744.5	30.05	763.3	36	2.2	89	sw.	17	7.6		0	0			0.43	10.9	clear	
Stratford, Ontario	28.81	731.8	30.13	765.3	36.4	2.4	68	nw.	8	3.6		0	0			0.789	20.1	blue sky	C. J. Macgregor, M A
Sydney, C. B*	30.14	765.5	30.20	767.1	43	6.1	71	sw.	1	0.4		10 k	0	nw.		0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.70	754.4	30.09	764.3	40	4.4	59	w.	15	6.7		0	2 k		w.	0.43	10.9	clear	Magnetic Observatory.
Windsor, N. S	29.98	761.5	30.08	764.0	45.0	7.2	72	se.	10	7.2			10 ks			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.06	738.1	30.15	765.8	40.7	4.8	65	sw.	13	5.8		0	0			0.72	18.3	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.97	761.2	30.04	763.0	45	7.2	96	se.	8	3.6			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.
London, Ontario	29.21	741.9	30.14	765.5	37.7	3.2	77	sw.			2	0	0			0.95	24.1	blue sky	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.04	763.0	30.07	763.8	61.0	16.1	72	w.	39.4	17.6		0	2 k			0.125	3.2	stormy	John Duthie.
Springbok Fontein	27.91	708.9			56	13.3	62												J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.68	637.1																	A. Gueluy.
Tchang-kia-tchouang	29.56	750.7	29.67	753.5	73.8	23.2	44	sw.			2		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.95	760.7	29.97	761.3	61.2	16.2	80	ese.	4.9	2.2			10			0 028	0.7	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.56	750.9	29.61	752.1	47.8	8.8	67	n.	13	6			10						Oversergent Fischer.
Fanoe	29.70	754.3	29.72	754.8	48.4	9.1	57	w.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	30.08	763.9	30.12	765.0	28.9	— 1.7	90	n.			2		10						S. Kleinschmidt.
Jacobshavn, Greenland	30.01	762.2	30.06	763.4	24.1	— 4.4		calm			0		8						
Stykkisholm, Iceland	30.06	763.5	30.10	764.6	28.0	— 2.2	89	ne.			6		8						A. O. Thorlacius.
Thorshavn	29.50	749.2	29.52	749.8	42.1	5.6	85	ne.	22	10			10						Overloerer Bergh.
Vestervig	29.60	751.8	29.69	754.1	46.2	7.9	82	w.			4		9						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.76	755.8			88.2	31.2		nw.	4.5	2.0		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.65	753.0	30.31	769.8	53.2	11.8	74	w.			1		kn		w.	0.307	7.8		M. Labroue, Director.
Alençon, Normal School	29.58	751.4	30.13	765.4	50.7	10.4	82	se.			1	0	5 n		nw.	0.16	4.	cloudy	M. Nicot, Director.
Arras, Engineer School	29.67	753.6	29.94	760.4	42.8	6.0	100	nw.			9		n;ks		w.	0	0		M. Fénéon, Command't.
Avignon, Normal School	30.09	764.3	30.17	766.3	57.2	14.	58	n.			1		5		sw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.55	750.5	30.11	764.8	51.3	10.7	55	wsw.			2	0	8 kn		w.	0.118	3.0	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.80	757.0	30.07	763.8	54.7	12.6	53	w.			3		10		w.	0.098	2.5	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.21	741.8	30.11	764.7	47.8	8.8	95	ssw.			1		n		sw.	0.551	14.0		M. Gobin, Director.
Bordeaux, Observatory	29.98	761.4	30.24	768.1	55.9	13.3	54	sw.			1		5		wnw.	0.276	7.0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.60	751.7	30.16	766.1	51.8	11	47	ssw.			3		n		ssw.	0.28	7.		M. Malet, Director.
Brest, Naval Observatory	29.85	738.2	30.10	764.4	57.6	14.2	67	sw.			2		7		sw.	0.020	0.5		M. de Kermarée, Dir.
Caen, Normal School	30.10	764.4	30.17	766.3	52.2	11.2	65	wsw.			1		10		wsw.	0.098	2.5	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.69	754.2	30.02	762.4	53.8	12.1	78	sw.			4		8	w.	w.	0.079	2.0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.47	748.6	29.99	761.8	46.0	7.8	80	w.			4		10			0.228	5.8	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.82	732.0	30.19	766.7	52.5	11.4	42	wnw.			2		8			0.067	1.7	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.32	744.8	30.19	766.7	52.2	11.2	44	sw.			1		3		sw.	0.260	6.6		M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.5	30.07	763.7	45.9	7.7	77	w.			4		n	w.	w.	0.154	3.9		Dr. Coulet, Director.
Gap, Normal School	27.55	699.7	30.11	764.7	50.7	10.4	39	ne.			3		7kn			0.04	1.		M. Jeangirard, Director.
Grésaque, du Rhone	29.02	737.1	30.15	765.9	55.2	12.9	52	nw.			3		5		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.41	746.9	30.19	766.7	51.4	10.8	73	ese.			1		ck	0 n.		0.094	2.4		M. Ablard, Director.
Guéret, Normal School	28.56	725.3	30.19	766.7	48.2	9.	57	w.			1		kn		ne.	inap.	inap.		M. Delorme, Dir.
Lamballe, Normal School	29.89	759.1	30.16	766.1	52.9	11.6	57	w.			3		5		w.	0.020	0.5	clouds	M. Ollitrault, Director.
Lescar, Normal School	29.67	753.5	30.24	768.0	56.1	13.4	53	w.			1		5 ck	0		0.079	2.0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.08	763.9	30.18	766.5	54.1	12.3	54	wsw.			2		5	calm	sw.	0.031	0.8	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.12	739.6	30.19	766.7	53.2	11.8	48	wnw.			2		5kn		wnw.	0.161	4.1	cloudy	M. André, Director.
Mans, Normal School	29.82	757 3	30.10	764.4	51.4	10.8	56	w.			3		5		w.	0.165	4.2	cloudy	M. Piboëu, Director.
Marseille, Observatory	29.87	758.8	30.15	765.7	61.5	16.4	39	nw.			2		2		nw.	0	0		M. Stephan, Director.
Montlouis	24.90	632.5	29.74	755.5	45.5	7.5	33	sw.	7.4	3.3			4	nw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.05	763 2	30.18	766.5	61.5	16.4	63	nw.			3		1		nw.	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.26	743.1	30.05	763.2	47.5	8.6	65	ssw.			1		ckn		w.	0.098	2.5	drizzling	M. Hasse, Director.
Nantes, Observatory	30.04	762.9	30.20	767.0	53.6	12.0	56	w.			1-2	0	9 k; kn		w.	0.071	1.8		M. Larocque, Director.
Perpignan, Observatory	30.10	764.4	30.21	767.3	62.8	17.1	41	w.	15.0	6.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.19	538 2			23.7	— 4.6		w.			1		5		w.	0.028	0.7	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.09	738.8	30.17	766.2	51.8	11	71	nw.			1		1	nw.	nw.	0.08	2.	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.19	639.7			27.0	— 2.8	98	w.			4	0	5 k		w.	0.220	5.6	½ cloudy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.17	766.2	30.20	767.0	57.6	14.2	52	sw.			1		2		sw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.90	759.5	30.12	765.0	56.5	13.6	53	w.			1		5		w.	0.024	0.6	cloudy	M. Brotier, Director.
Rodez, Normal School	28 69	713 4	30.26	768.7	59.5	15.3	61	e.			1	0	0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.01	762.2	30.06	763.4	50.4	10.2	57	w.			3		5	w		0.256	6.5	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.91	759.6	30.07	763.7	55.4	13.0	52	wsw.			2		6	nw.	wnw.	0.043	1.1		M. Renou, Director.
Toulouse, Observatory	29.58	751.3	30.31	769.8	55.0	12.8	66	wnw.			1		2	nw.		0.185	4.7	slightly cl'dy	M. Baillard, Director.
Tours	29.97	761.3	30.31	769.8	55.4	13.0	45	sw.			3		5	sw.	sw.	0.142	3.6	cloudy	M. de Tastes.
Versailles, Observatory	29.56	750.8	30.06	763.4	52.2	11.2	43	w.			2					0.075	1.9		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.15	765.7	30.30	769.5	55.2	12.9	59	w.	13.9	6.2		0	4 k		w.	0.110	2.8		M. Cartier, Director.
GERMAN.																			
Ansbach	28.52	724.4	29.98	761.4	49.6	9.8	58	w.			6		5	w.		0.665	16.9		Prof. Jaedt.
Bamberg	29.05	737.9	29.89	759.2	53.6	12.0	60	w.			3	0	4 k		w.	0.039	1.0	light rain	Prof. Dr. Hoh.
Berlin	29.55	750 6	29.70	754.3	38.7	3.7	95	w.			7		10			0.406	10.3		Meteorological Institute.
Breslau	29.32	744.7	29.85	758.1	56.8	13.8	36	sw.			7		4			0	0		Royal University Obs'y
Carlsruhe	29.57	751.1	30.04	762.9	50.0	10.0	67	sw.			6		5	sw.		0.610	15.5	raining	Albert Senz.
Cassel	29.10	739.2	29.82	757.3	49.6	9.8	98	w.			6		8	w.		0.272	6.9	thud'r storm	Dr. H. Möhl.
Frankfort-on-the-Main			29.94	760.5	50.7	10.4	70	w.			2		9			0.217	5.5		Physical Society.
Friedrichshafen	28.67	728.1	30.11	764.8	46.6	8.1	79	sw.			4		6	sw.		0.161	4.1	raining	Wilhelm, Chief Tel.
Hamburg	29.68	753 9	29.77	756.2	44.4	6.9	91	sw.			4		10			0.693	17.6	rainy	E. Preller.
Kiel	29.72	754.8	29.73	755.2	46.8	8.2	81	calm			0		10			0.059	1.5		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.41	746.9	29.83	757.6	50.4	10.2	65	wsw.			4		9	w.		0.744	18.9		H. Leppig, Asst.
Magdeburg	29.60	751.9	29.80	756.8	44.2	6.8	88	w.			4		10	w.		0.835	21.2		Dr. Assmann.
Memel	29.62	752.4	29.67	753.6	67.3	19.6	62	s.			4		10 ck	0					Issermann.
Munich	28.19	716.0	30.05	763.3	52.3	11.3	50	nw.			8		4	nw.		0.043	1.1		Central Station.
Neufahrwasser	29.61	752.1	29.63	752.5	58.1	14.5	62	sw.			4		10			0.008	0.2		A. Lothes.
Neustadt, Palatinate	29.40	746.7	29.92	760.0	48.9	9.4	87	sw.			2		8	sw.				sleeting	Dicknether.
Stuttgart	29.69	738.9	30.00	762.1	44.6	7.0	71	w.			1		8	w.		0.220	5.6	light rain	Prof. Dr. Schoder.
Wustrow	29.68	753.9	29.71	754.5	42.6	5.9	100	w.			4		10			0.626	15.9		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.55	750.6	29.92	760.0	78.4	25.8		s.			1.0		3			0	0	hazy	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.52	749.8	29.57	751.0	87.9	31.1	73	nw.	17.0	7.6			0			0	0	blue sky	
Deesa	29.07	738.4	29.52	749.7	108.6	42.6	15	w.	11.0	4.9			0			0	0	blue sky	
Bombay	29.72	754.8	29.76	755.8	80.7	30.4	74	sw.	15.0	6.7			7	wsw.	wsw.	0	0	d. clouds	
Poona, Yarrowda	27.89	708 3	29.69	754.2	90.5	32.5	34	w.	22.0	9.8			9			0	0	d. clouds	
Trichinopoly	29.51	749.5	29.78	756.4	92.9	33.8	40	s.	1.0	0.4			0			0	0	blue sky	
Belgaum	27.21	691.2	29.72	754.8	80.6	27.0	70	s.	9.0	4.0			2	n.		0.26	6.6	d. clouds	
Lahore	28.64	727.5	29.34	745.2	105.3	40.7	14	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.50	723.9	29.34	745.4	103.9	39.9	11	w.	3.0	1.3			0			0	0		
Agra	28.87	733.2	29.40	746.6	108.1	42.3	11	w.	4.0	1.8			7		w.	0	0	d. clouds	
Nagpur	28.51	724.4	29.50	749.4	107.5	41.9	15	w.	22.0	9.8			1			0	0	blue sky	
Jubbulpore	28.21	716.5	29.49	749.0	105.9	41.1	16	sw.	4.0	1.8			0			0	0	blue sky	
Lucknow	29.09	738.8	29.45	747.9	99.4	37.4	40	wnw.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.13	739.8	29.42	747.2	105.3	40.7	20	nw.	4.0	1.8			0			0	0	blue sky	
Patna	29.28	743.7	29.46	748.3	93.3	34.1	45	e.	10.8	4.8			0			0	0	blue sky	
Hazaribagh	27.52	699.0	29.44	747.7	96.9	36.1	14	nw.	10.8	4.8			0			0	0		
Cuttack	29.43	747.5	29.51	749.5	93.1	33.9	53	wnw.	7.0	3.1			3	e.		0	0	d. clouds	
Calcutta, Alipore	29.45	748.1	29.47	748.6	92.0	33.4	59	ssw.	6.0	2.7			0			0	0	blue sky	
Dhubri	29.43	747.6	29.55	750.6	76.6	24.8	79	nne.	7.0	3.1			1			0.03	0.8	d. clouds	
Chittagong	29.58	751.4	29.07	753.7	80.6	27.0	78	ne.	9.1	4.1			10			0	0	overcast	
Sibsagar	29.25	742.9	29.58	751.4	79.3	26.3	76	ne.	2.0	0.9			6	sw.	sw.	0.50	12.7	d. clouds	
Jeypore	28.07	713.1	29.44	747.6	105.5	40.8	13	wnw.	19.7	8.8			4		wnw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.20	716.3	.....	.....	100.2	37.2	31	s.	10	4.5	.....	4 ck	4	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.96	761.0	83.8	28.8	58	sw.	7.0	3.1	.....	.....	5	nne.	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.60	751.9	30.00	762.0	62.9	16.9	55	se.	2.5	1.1	.....	.....	4	.....	.....	0.378	9.6	.....	Prof. Giovanni Clodig.
Milan	29.49	749.0	29.99	761.8	60.8	16.0	41	sw.	5.6	2.5	.....	.....	0	.....	.....	0.024	0.6	.....	Prof. G.V.Schiapparelli.
Padua	29.89	759.1	29.99	761.8	62.1	16.7	37	wsw.	6.9	3.1	.....	.....	1	n.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.08	738.6	29.96	760.9	60.8	16.0	46	se.	2.5	1.1	.....	.....	2	w.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.85	758.3	30.04	763.1	58.6	14.8	60	se.	15.4	6.9	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.07	713.0	29.93	760.3	58.1	14.5	24	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.96	760.9	30.00	762.1	61.2	16.2	58	sw.	7.4	3.3	.....	.....	9	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.83	757.6	30.08	764.0	60.4	15.8	46	wsw.	.....	.....	6	.....	4	wsw.	.....	0.083	2.1	.....	Prof. Costantino Pittei.
Leghorn	29.96	761.0	30.05	763.2	60.6	15.9	55	sw.	20.6	9.2	.....	.....	3	sw.	.....	0	0	.....	Prof. P. Monte.
Rome	29.89	759.1	30.00	763.5	66.4	19.1	29	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.74	755.4	29.99	761.7	71.1	21.7	51	ne.	15.0	6.7	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.14	740.2	30.01	762.2	73.2	22.9	75	ssw.	2.5	1.1	.....	.....	5	sw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.91	759.6	30.10	764.5	64.4	18.0	36	sw.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.89	759.2	30.14	765.5	63.0	17.2	54	ne.	8.1	3.6	.....	.....	1	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.94	760.4	29.98	761.5	67.3	19.6	63	nne.	9.8	4.4	.....	.....	8	wsw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.56	750.9	30.08	764.1	63.7	17.6	61	sw.	8.7	3.9	.....	.....	2	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.06	560.2	.....	.....	25.0	— 3.9	95	w.	.....	.....	4	.....	8	.....	.....	0	0	misty..	Prof. P. F. Denza.
Valdobbia	22.08	560.7	.....	.....	25.0	— 3.9	74	nw.	.....	.....	8	.....	8	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.78	756.4	29.81	757.3	53.0	11.7	45	e.	.....	.....	2	.....	10 n	.....	w.	0.591	15.0	raining	H. Hattori.
Awomori	29.79	756.6	29.82	757.4	51.2	10.7	50	se.	13.6	6.1	.....	.....	9 ks;s	.....	e.	0.335	8.5	cloudy	K. Ogawa.
Hamamatsu	29.82	757.4	29.85	758.1	58.6	14.8	92	e.	.....	.....	2	.....	10 n	.....	.....	0.386	9.8	raining	
Kagoshima	29.88	758.9	29.89	759.2	65.0	18.3	94	calm	.....	.....	0	0	9 s	.....	.....	0.004	0.1	cloudy	G. Miyanonaza.
Kioto	29.67	753.5	29.84	757.9	61.6	16.4	97	nne.	1.8	0.8	.....	.....	10 n	.....	.....	1.091	27.7	light rain	M. Tojima.
Miasaka	29.83	757.8	29.86	758.5	67.6	19.8	97	ne.	.....	.....	1	1 cs	8ck;ks	w.	w.	0	0	cloudy	K. Masusaki.
Miyako	29.92	759.8	30.02	762.6	45.0	7.8	85	s.	0.2	0.1	.....	.....	10 s	.....	.....	0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.69	754.1	29.89	759.3	64.1	17.8	88	n.	5.4	2.4	.....	3 c	0	w.	.....	0.040	1.0	clear	S. Takehayashi.
Niigata	29.73	755.1	29.77	756.1	54.0	12.2	79	se.	17.7	7.9	.....	.....	10 n	.....	.....	0.460	11.7	light rain	M. Morita.
Nobiru	29.95	760.8	29.97	761.2	48.1	8.9	86	e.	18.2	8.1	.....	.....	10 s	.....	.....	0.180	4.6	covered	H. Midzushima.
Numazu	29.85	758.2	29.89	759.1	56.7	13.7	83	se.	.....	.....	4	.....	10 n	.....	.....	0.240	6.1	raining	R. Kaneda.
Osaka	29.80	757.0	29.82	757.4	61.6	16.4	90	ene.	9.4	4.2	.....	.....	10 n	.....	.....	0.720	18.3	light rain	H. Omura.
Tokei Obs'y, Yeddo	29.87	758.7	29.95	760.7	50.1	10.1	98	nnw.	12.1	5.4	.....	.....	10n;ks	.....	n.	0.577	14.7	rainy	The Staff.
Wakayama	29.76	756.0	29.81	757.3	63.6	17.6	96	ne.	1.0	0.4	.....	.....	10 n	.....	.....	0.639	16.2	light rain	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.90	759.4	30.09	764.3	77.2	25.1	77	ese.	18.0	8.0	.....	1 cs;c	2 ks;k	w.	se.	0.15	3.8	fair	The Staff.
MEXICAN.																			
Guanajunto	23.71	602.2	29.93	760.2	.....	.....	54	e.	14.5	6.5	.....	4 ck	2 k	n.	n.	0	0	fair	Prof. Vicente Fernandez.
Leon	24.35	618.5	29.98	761.5	62.2	16.8	78	calm	0	0	.....	0	6 ck	.....	nw.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.67	753.6	29.93	760.2	68.0	20.0	90	ese.	5.3	2.3	.....	10 cs	0	sw.	.....	0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Rabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	69	20.6	84	n.	9.0	4.0	.....	0	2 n	.....	e.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.91	759.8	29.91	759.8	48.6	9.2	.....	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	29.72	755.0	29.78	759.4	46.9	8.3	.....	w.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	29.81	757.2	29.81	757.2	47.1	8.4	.....	w.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.88	758.9	29.88	758.9	48.2	9.0	65	w.	.....	.....	4	.....	.....	.....	.....	0.031	0.8	.....	
Utrecht	29.84	757.8	29.88	759.0	55.6	13.1	60	w.	.....	.....	4	.....	8	.....	.....	0.020	0.5	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	759.0	.....	.....	77.9	25.5	88	ne.	0.5	0.2	.....	.....	8	.....	.....	0	0	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.54	750.3	29.60	751.9	50.4	10.2	62	ssw.	22	10	.....	.....	7	.....	.....	0.063	1.6	.....	
Brono	29.48	748.9	29.52	749.9	47.1	8.4	84	sw.	.....	.....	6	.....	10	.....	.....	0	0	foggy	
Christiania	29.39	746.4	29.53	750.1	54.5	12.5	71	s.	7	3	.....	.....	5	.....	.....	0.220	5.6	.....	
Gjæsvær	29.08	753.8	29.70	754.4	38.3	3.5	.....	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.54	750.2	29.58	751.4	47.5	8.6	70	ne.	.....	.....	4	.....	5	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.98	761.4	30.13	765.4	63.0	17.2	84	w.	17.4	7.8	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.18	741.1	30.17	766.3	65.5	18.6	41	nnw.	3.8	1.7	.....	.....	4	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.24	768.0	30.33	770.3	62.6	17.0	50	sw.	3.8	1.7	.....	.....	9	.....	.....	0	0	.....	Capt. D. A. de Ounha.
Lisbon, Observatory	29.90	759.4	30.34	768.0	58.5	14.7	51	nne.	9.4	4.2	.....	.....	4	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.16	766.0	30.23	767.8	65.1	18.4	66	sw.	19.2	8.6	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Serra da Estrella	25.41	645.4	30.23	767.9	42.1	5.6	66	se.	1.3	0.6	.....	.....	2	nw.	.....	0.079	2.0	.....	
RUSSIAN.																			
Akmolinski	28.88	733.6	29.95	760.8	52.7	11.5	36	nne.	20	9	.....	3 c	0	.....	.....	inap.	inap.	.....	Major K. Lasarew.
Archangel	29.72	754.9	29.74	755.4	65.8	18.8	47	se.	4	2	.....	.....	10	.....	.....	0.079	2.0	.....	Capt. Sseliwerstow.
Ashurada	30.18	766.6	30.09	764.2	70.9	21.6	66	wsw.	16	7	.....	5 ck	0	.....	.....	blank	blank	.....	
Astrakhan	30.28	769.2	30.20	767.1	77.4	25.2	25	se.	11	5	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.17	766.3	30.12	765.1	64.2	17.9	78	calm	0	0	.....	0	7 ks	.....	.....	0.087	2.2	.....	Meteorological Obs'y
Barnaul	29.13	739.8	29.63	752.6	39.6	4.2	77	nw.	13	6	.....	.....	9	.....	.....	0.012	0.3	.....	
Bieloserk	29.40	746.7	29.85	758.2	64.6	18.1	72	s.	11	5	.....	0	7 kn	.....	.....	0	0	.....	Observatory.
Dorpat	29.49	749.1	29.72	755.0	70.7	21.5	56	s.	11	5	.....	0	7 k	.....	.....	0	0	solar corona	Meteorological Obs'y.
Ekaterinburg	29.13	739.8	30.07	763.8	60.1	15.6	45	sw.	13	6	.....	9 c	0	.....	.....	0	0	.....	
Elisawetgrad	29.54	750.3	29.97	761.2	78.1	25.6	23	ese.	11	5	.....	0	0	.....	.....	0	0	.....	
Irkutsk	28.66	712.7	29.69	754.0	48.2	9.0	41	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Kasalinsk	29.46	748.3	29.64	752.8	76.6	24.8	36	n.	22	10	.....	.....	10 k	.....	.....	.....	.....	.....	
Kasan	29.87	758.0	30.12	765.1	75.0	23.9	39	s.	4	2	.....	0	3	.....	.....	0	0	.....	Observatory.
Kem	29.62	752.4	29.67	753.7	55.9	13.3	64	ese.	13	6	.....	.....	10 ks	.....	.....	0	0	heavy cld's.	
Kertch	29.95	760.7	29.97	761.3	65.7	18.7	66	se.	4	2	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	29.31	744.4	29.91	759.8	75.6	24.2	45	ese.	4	2	.....	c;cs	7 ks	.....	.....	0	0	light clouds	Observatory.
Koslov	29.00	751.8	30.11	764.8	86.4	26.9	37	ssw.	13	6	.....	0	0	.....	.....	0	0	.....	
Libau	29.05	753.0	29.67	753.6	53.2	11.8	75	w.	7	3	.....	.....	6	.....	.....	0.169	4.3	.....	E. Quass.
Lugan	29.83	757.7	30.01	762.2	80.8	27.1	16	ese.	22	10	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.53	750.1	29.98	761.4	79.0	26.1	28	s.	13.4	6.0	.....	0	2 ks	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.87	756.7	29.95	760.6	77.5	25.3	30	ene.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.90	759.4	29.98	761.6	30.2	— 1.0	92	ne.	7	3	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.45	748.1	29.00	751.7	73.9	23.3	27	nw.	5.6	2.5	.....	0	4 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.79	756.6	30.13	765.2	78.4	25.8	13	w.	2.2	1.0	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.53	750.0	29.72	754.8	63.9	17.7	76	sw.	16	7	.....	7 ck	0	.....	.....	0.059	1.5	.....	Dr. Bergmann.
Pinsk	29.29	744.0	29.76	756.0	77.0	25.0	49	se.	27	12	.....	2 c	0	.....	.....	0.161	4.1	light clouds	
Poti	29.90	759.5	29.93	760.3	68.4	20.2	93	sw.	4	2	.....	0	2 s	.....	.....	0	0	.....	
St. Petersburg	29.73	755.2	29.70	755.8	66.0	18.9	50	sw.	13	6	.....	0	5 k	.....	.....	0.098	2.5	.....	Central Physical Obs'y.
Samarkand	27.67	702.9	30.08	763.9	69.8	21.0	32	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.17	740.9	29.83	757.6	50.9	10.5	60	w.	22	10	.....	.....	6	.....	.....	0.051	1.3	.....	Major Lasarew.
Sevastopol	29.69	754.1	29.91	759.8	61.7	16.5	77	ssw.	27	12	.....	0	5 s	.....	.....	0.063	1.6	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.51	749.5	29.95	760.6	78.4	25.8	40	se.	13	6			10 k			0.268	6.8		
Tashkend	28.41	721.6	30.06	763.4	62.6	17.0	49	nw	9	4		0	8 kn;s			0	0		Torch, A. M.
Tiflis	28.71	729.1	30.09	764.3	69.6	20.9	34	e.	7	3		0	6 ks			0	0		Physical Observatory.
Vernoe	27.41	696.2	29.87	758.6	59.0	15.0	54	s.	13	6		0	7 n			0.012	0.3		
Viatka	29.32	744.8	29.94	760.4	61.9	16.6	58	s.	2	1			2			0	0		
Warsaw	29.37	745.9	29.78	756.5	59.2	15.1	70	sw.	20	9			10kn			0.102	2.6	heavy ol'ds.	Astronomical Obs'y.
Yeniseisk	29.01	736.8	29.30	744.1	39.4	4.1	78	sw.	25	11			10			0.134	3.4	raining	M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.55	750.6	44	6.7	92	nnw.			4	5	5	nnw.		0.2	5.	showery	J. Youngclause
North Unst			29.37	746.0				se.			7	0	7						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.15	765.7	30.25	768.4	63.0	17.2	59	se.	4.7	2.1		0	2			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.23	767.9	30.29	769.4	61.3	16.3	52	nw.	3.6	1.6		2	4	w.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.23	691.7	30.25	768.3	50.4	10.2	46	ne.	4.3	1.9		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.97	710.5	30.20	767.1	60.3	15.7	42	e.	4.7	2.1		0	3			0	0		The Staff.
Murcia, Met. Obs'y	30.04	763.0	30.20	767.0	65.5	18.6	50	ene.	5.6	2.5		0	2			0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.36	745.8	30.22	767.5	50.0	10.0	88	se.	6.7	3.0		2 c	0			0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.28	743.7	30.18	766.6	58.5	14.7	61	sw.	8.7	3.9			5			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.93	760.2	30.00	761.9	74.3	23.5	86	ne.	2.2	1.0		4 cs	0	wsw.		1.33	33.8	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757 8	29.89	759.2	85.0	29.4	71	ese.	19.7	8.8		0	1 s			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.2	30.15	765.7	67.8	19.9	46	e.	8.5	3.5		3	4	e.	e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	29.95	760.7	30.04	763.0	76.6	24.8	65	se.	7.4	3.3			10 kn		se.	0.071	1.8	overcast	Enrique Gadea, Chf Eng't.
SWEDISH.																			
Haparanda	29.59	751.6	29.63	752.6	61.2	16.2	51	se.			2		8			0	0		
Umea	29.50	749.2	29.55	750.5	54.0	11.2	68	ene.			2		10			0.091	2.3		
Hernosand	29.47	748.4	29.52	749.7	45.3	7.4	96	ne.			2		10			0.205	5.2		
Stockholm	29.39	746.6	29.57	751.1	56.5	13.6	78	sw.			2		10			0.020	0.5		
Wisby	29.57	751.1	29.63	752.6	47.1	8.4	92	w.			4		5			0.346	8.8		
Sub-series.																			
Upsala	29.42	747.3	29.51	749 5	58.3	14.6	80	sw.	5.8	2.6			10			0.185	4.7		S. G. Fineman.
SWISS.																			
Geneva	28.74	730.0	30.19	766.8	46.8	8.2	63	ssw.			4		6			0.043	1.1	cloudy	The Observatory.
TURKISH.																			
Constantinople			29.97	761.2	68.0	20.0	49	ne.	15	6.5			3		n.	0	0		The Observatory.
Valona			30.09	764.2	77.2	25.1		sw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.7	74.3	23.5	63	ssw.			2	c	2 k		s.;w.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.70	678.2			77	25.0	97						7 n		sw.				Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.78	756.4	29.86	758.4	65	18.3	68	s.	4	1.8			10 s		w.	0.17	4.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.36	745.7	30.02	762.5	36	2.2	61	w.	15	6.7		0	0			0.30	7.6	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	630.3	29.87	758.7	40	4.4	62	e.	3	1.3		4 ck	0	w.		0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.26	692.4	30.10	764.5	33	0.6	62	sw.	7	3.1		3 c	0	w.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.11	764.8	65.5	18.6	93	s.	3	1.3			10 s			0.32	8.1	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.98	761.5	29.99	761.7	56	13.3	93	s.	12	5.4			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.92	760.0	30.11	764.8	68	20.0	90	calm	0	0		4 k	6 s	sw.	sw	0.29	5.1	cloudy	John Healy.
Baltimore, Maryland	29.95	760.7	30.00	762.0	67	19.4	84	sw.	6	2.7			10 s		s.	0.06	1.5	cloudy	Geo. W Felger.
Barnegat City, New Jersey	29.95	760.7	29.97	761.2	59.0	15.0	87	sw.	18	8.0		4 cs	4 k;fg	w.	w.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.84	757.9	29.86	758 4	31.3	— 0.4		nw.	9	4.0			10 n			0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.67	728.2	30.23	767.8	37.0	2.8	82	calm	0	0		4 k	6 s	nw.	nw.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.25	692 1	30.04	763.0	44	6.7	63	calm	0	0		0	0			0.04	1.0	clear	S. Wheaton.
Billings, Montana	26.78	680.2	29.96	761.0	43	6.1	76	e.	6	2.7			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.42	721.9	30.21	767.3	31	— 0.6	88	e.	8	3.6		4 ck	0	nw.		0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	29.95	760.7	29.98	761.5	54	12.2	86	sw.	20	8.9		2 cs	hz.			0.01	0.3	clear	J. T. Elker.
Boise City, Idaho	27.07	687.6	29.91	759.7	49	9.4	71	n	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.78	756.4	29.94	760.5	57.0	13.9	83	nw.	3	1.3		4 ck	4 s;hz			0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	72.0	22.2	97	calm	0	0		4 c	0			0	0	fair	M. McCarty.
Buffalo, New York	29.36	745.7	30.10	764.5	38.2	3.4	64	sw.	13	5.8		2cs;ck	0	sw.		0.10	2.5	clear	W. Finn.
Buford, Fort, Dakota	28.16	715.3	30.14	765.5	36	2.2	64	ne.	6	2.7		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.49	749.0	29.78	750.4	60.3	15.7	87	s.	10	4.5			10 s		w.	0.25	6.3	cloudy	D. N. Farnell.
Cairo, Illinois	29.88	758.9	30.28	769.1	49.7	9.8	73	ne.	12	5.4		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.03	762.7	30.05	763.3	68	20.0	84	s.	8	3.6			10 s		s.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.95	760.7	29.98	761.5	60.0	15.6	87	s.	12	5.4			10 s		e.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.22	742.2	29.90	759.4	49	9.4	100	calm			0		fg.			0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	73	22.8	84	ne.	4	1.8		3 cs	2 k			0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.05	763.3	30.10	764.5	74.0	23.3	82	sw.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.22	742.2	30.00	763.5	66.0	18.9	90	sw.	2	0.9			10 n		sw.	0.02	0.5	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.12	765.0	63.0	17.2	84	n.	6	2.7		5 cs	1 ks	w.		0.11	2.8	fair	B. L. Goulding.
Cheyenne, Wyoming	24.08	611.6	29.95	760.7	38.3	3.5	92	sw.	5	2.2			fg.			0	0	dense fog	E. McGovern.
Chicago, Illinois	29.51	749.5	30.21	767.3	43.0	6.1	63	nw.	3	1.5		0	0			0.03	0.8	clear	John Laurens.
Chincoteague, Virginia	30.00	762.0	30.02	762.5	59	15.0	93	s.	12	5.4		3 c	7 s		sw.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.57	751.1	30.22	767.6	50.0	10.0	58	nw.	8	3.6		0	0			0.16	4.1	clear	L. Dunne.
Cleveland, Ohio	29.44	747.8	30.17	766.3	42.3	5.7	43	n.	7	3.1		0	0			0.55	14.0	clear	J. B. Newlin.
Coleman City, Texas	28.37	720.6	30.16	766.1	57	13.9	80	ne.	4	1.8		8 k	0			0	0	cloudy	T. J. Kenan.
Columbus, Ohio	29.31	744.5	30.15	765.8	47	8.3	56	nw.	10	4.5		0	0			0.23	5.8	clear	D. Cuthbertson.
Concho, Fort, Texas	28.22	716.8	30.12	765.0	62.4	16.9	73	ne.	6	2.7			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.60	751.8	30.24	768.1	40	4.4	73	nw.	5	2.2		0	0			inap.	inap.	clear	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	29.98	761.5	61	16.1	50	calm	0	0		0	4 s		sw.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.18	715.8	29.93	760.2	53	11.7	69	sw.	4	1.8		9 ck	0			0	0	cloudy	D. Moore.
Deadwood, Dakota	25.33	643.4	29.85	758.2	40	4.4	86	calm	0	0			10 s			0	0	cloudy	F. Willson.
Delaware Breakwater, Del.	29.98	761.5	30.00	762.0	65	18.3	90	sw.	22	9.8			10 s		sw.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.81	630.2	29.97	761.2	44.5	6.9	83	calm	0	0		4 ck	0	w.		0	0	fair	F. M. Neal.
Des Moines, Iowa	29.44	747.8	30.33	770.4	40	4.4	73	n.	2	0.9		0	1 s			0.05	1.3	clear	F. W. Conrad.
Detroit, Michigan	29.45	748.0	30.15	765.8	42.0	5.6	65	w.	7	3.1		0	0			0.32	8.1	clear	E. R. Brace.
Dodge City, Kansas	27.23	691.6	29.78	756.4	46	7.8	65	se.	13	5.8		0	6 ks		w.	0	0	fair	J. H. Bryce.
Dubuque, Iowa	29.55	750.6	30.25	768.3	40.2	4.6	60	nw.	1	0.4		0	0			0.02	0.5	clear	J. Harvey Smith.
Duluth, Minnesota	29.42	747.3	30.17	766.3	40	4.4	65	w.	7	3.1		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.31	744.5	30.11	764.8	72.3	22.4	82	ne.	5	2.2		5 cs	1 s		se.	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.25	641.3	29.93	760.2	43	6.1	71	n.	8	3.6		3 cs	3 s		n.	0	0	fair	H. R. Boynton.
Eastport, Maine	29.90	759.4	29.97	761.2	41.0	5.0	88	e.	8	3.6			10s;fg		e.	inap.	inap.	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.45	697.2	30.15	765.8	45	7.2	63	calm	0	0		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.34	669.0	29.98	761.5	59.0	15.0	41	e.	4	1.8			10 s		e.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.43	747.5	30.15	765.8	42	5.6	65	nw.	8	3.6		0	0			0.25	6.3	clear	C. A. Shaw.
Escanaba, Michigan	29.38	746.2	30.04	763.0	36.8	2.7	49	w.	10	4.5		0	1 s		nw.	0.07	1.8	clear	George Heathcote.
Galveston, Texas	30.06	763.5	30.10	764.5	70	21.1	90	ne.	5	2.2			10 ks			0.43	10.9	cloudy	E. O'C. Macilperney.
Grand Haven, Michigan	29.51	749.5	30.17	766.3	42.5	5.8	61	w.	6	2.7		0	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.32	643.1	29.93	760.2	58.9	14.9	36	se.	6	2.7		0	5 s		nw.	0	0	fair	Robert O. Lord.
Hatteras, North Carolina	30.10	764.5	30.12	765.0	69	20.6	84	s.	12	5.4		6 cs	0	sw.		0	0	fair	R. M. Crawford.
Helena, Montana	25.82	655.8	29.98	761.5	45	7.2	80	calm	0	0		4 cs	0			0	0	fair	N. C. Smith.
Huron, Dakota	28.88	733.5	30.24	768.1	35	1.7	68	n.	4	1.8		3 cs	0	nw.		0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.41	747.0	30.20	767.1	50.8	10.4	72	nw.	3	1.3		0	0			inap.	inap.	clear	C. F. R. Wappenhans.
Indianola, Texas	30.06	763.5	30.09	764.3	72.3	22.4	95	ne.	12	5.4		0	4 s		ne.	inap.	inap.	fair	I. A. Reed.
Jacksboro, Texas	28.87	733.3	30.02	762.5	68	20.0	61	se.	6	2.7		3 ck	0	ne.		0	0	clear	D. J. Carr.
Jacksonville Florida	30.08	764.0	30.12	765.0	73.0	22.8	84	se.	1	0.4		2 cs	3 k		se.	0	0	fair	J. W. Smith.

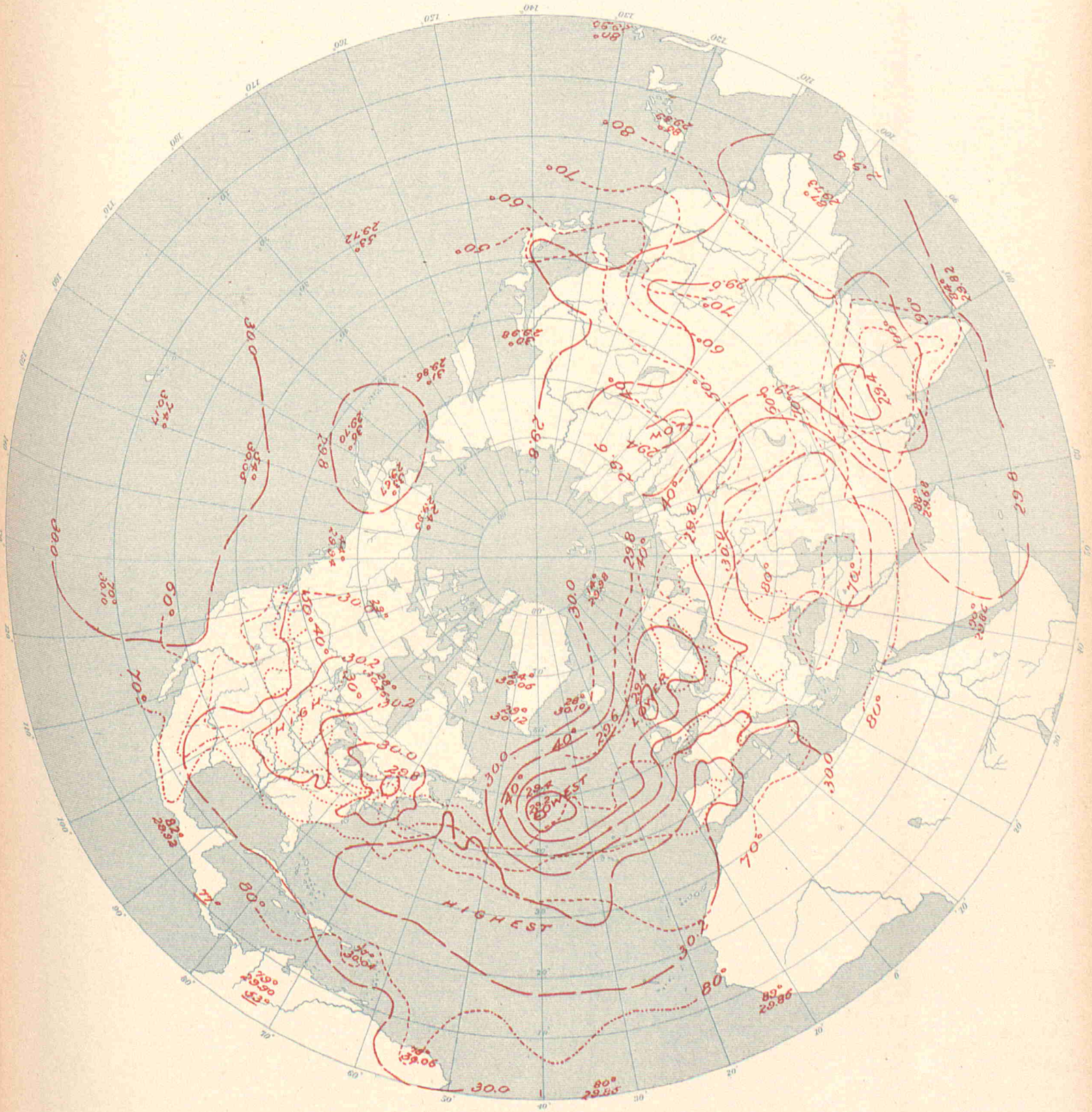
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.62	701.5	30.07	763.8	39	3.9	65	ne.	1	0.4		0	4 s			0	0	fair	W. B. Lamar.
Keokuk, Iowa	29.64	752.8	30.29	769.4	44.0	6.7	60	nw.	6	2.7		0	0			inap.	inap.	clear	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	74.0	23.3	84	calm	0	0			10 s		e.	0.60	15.2	threatening.	Lee M. Melbourne.
Kittyhawk, North Carolina	30.10	764.5	30.12	765.0	69.5	20.8	84	sw.	16	7.2		0	1 s			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.09	738.9	30.11	764.8	62	16.7	83	n.	6	2.7			9 s		n.	0.25	6.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.46	748.3	30.22	767.6	42	5.6	65	nw.	8	3.6		0	0			0.02	0.5	clear	S. C. Emery.
Leavenworth, Kansas	29.46	748.3	30.34	770.6	45	7.2	60	ne.	2	0.9		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.94	760.5	53.2	11.8	86	calm	0	0		0	3 s			0	0	clear	W. Bell.
Little Rock, Arkansas	29.91	759.7	30.22	767.6	61	16.1	72	ne.	6	2.7		0	0			0.10	2.5	clear	W. U. Simons.
Los Angeles, California	29.65	753.1	30.05	763.3	55	12.8	86	w.	4	1.8			10 s		w.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.62	752.3	30.17	766.3	51	10.6	83	n.	13	5.8		0	6 k		w.	0.37	9.4	fair	L. M Dey.
Lynchburg, Virginia	29.32	744.7	30.00	762.0	67	19.4	84	sw.	1	0.4			10 s		sw.	0.11	2.8	cloudy	Lou's Duane.
Mackinaw City, Michigan	29.34	745.2	29.99	761.7	36.2	2.3	61	nw.	20	8.9			10 ks		nw.	0.18	4.6	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.10	764.5	30.12	765.0	70.0	21.1	90	sw.	7	3.1		0	6 k		sw.	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.65	651.5	30.06	763.5	45	7.2	83	se.	4	1.8		5 c	0			0	0	fair	F. Burke.
Marquette, Michigan	29.29	744.0	30.01	762.2	36	2.2	61	nw.	18	8.0		5 k	0	nw.		0.03	0.8	fair	E. H. Thompson.
Memphis, Tennessee	29.86	758.4	30.19	766.8	59	15.0	81	calm	0	0		0	8 s		n.	0.10	2.5	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.46	748.3	30.20	767.1	40	4.4	57	nw.	9	4.0		0	0			0.01	0.3	clear	W. Line.
Missoula, Fort, Montana	26.74	679.2	30.04	763.0	54	12.2	57	e.	1	0.4		0	0			0	0	clear.	J. H. Young.
Mobile, Alabama	30.08	764.0	30.12	765.0	67	19.4	93	n.	8	3.6			10 s		n.	0.04	1.0	cloudy	C. A. Read.
Montgomery, Alabama	29.85	758.2	30.08	764.0	69	20.6	87	nw.	1	0.4		0	9 s		w.	0.01	0.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.25	742.9	30.23	767.8	30	− 1.1	77	n.	5	2.2		0	0			0	0	clear	H. Bessaut.
Mt. Washington, N. H	23.65	600.7	29.83	757.7	41.0	5.0	100	nw.	60	26.8			fg.		nw.	0.11	2.8	dense fog	S. W. Beall.
Nashville, Tennessee	29.60	751.8	30.18	766.6	60.5	15.8	69	nw.	8	3.6		0	0			0.52	13.2	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.82	757.4	29.94	760.5	60	15.6	87	sw.	10	4.5			10s;hz		sw.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.93	760.2	29.98	761.5	61	16.1	84	sw.	5	2.2		9 k	0	sw.		0.05	1.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	73.0	22.8	83	n.	3	1.3		0	0			0.15	3.8	clear	H. C. Smyth.
New York, New York	29.79	756.7	29.97	761.2	63	17.2	84	s.	13	5.8		0	9k;s		s.	0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	30.02	762.5	30.05	763.3	69	20.6	84	sw.	11	4.9		0	8 ks		nw.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.31	693.7	30.18	766.6	41.6	5.3	82	se.	12	5.4			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.90	759.4	29.94	760.5	46.0	7.8	76	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.18	741.2	30.34	770.6	46.0	7.8	78	calm	0	0		0	8 k		nw.	0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	29.93	760.2	29.95	760.7	24.2	− 4.3	100	w.	6	2.7			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.68	753.9	30.01	762.2	40.0	4.4	82	w.	21	9.4		5 cs	0	sw.		1.03	26.2	fair	J. G. Linsley.
Palestine, Texas	29.61	752.1	30.16	766.1	63.0	17.2	76	ne.	10	4.5		7 ck	0	w.		0.72	18.3	fair	L. M. Pindell.
Pensacola, Florida	30.07	763.8	30.10	764.5	70.8	21.6	89	w.	4	1.8		4ck;cs	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa	29.88	758.9	29.98	761.5	66	18.9	93	sw.	7	3.1			10 n		sw.	inap.	inap.	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.84	453.1	29.90	759.4	17	− 8.3	76	w.	20	8.9		0	1 ks			0.01	0.3	clear	H. Hall.
Pioche, Nevada	24.00	609.6	29.92	760.0	53.5	11.9	33	s.	3	1.3		6 c	0	sw.		0	0	fair	F. R. Day.
Pittsburg, Pennsylvania	29.33	745.0	30.13	765.3	46.5	8.1	77	n.	12	5.4			10 s		n.	0.01	0.3	cloudy	W. A. Reid.
Poplar River, Montana	28.03	711.9	30.15	765.8				se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.44	747.8	30.12	765.0	38.0	3.3	82	w.	12	5.4		0	0			0.50	12.7	clear	M. H. Perry
Portland, Maine	29.89	759.2	29.94	760.5	48	8.9	86	ne.	1	0.4			10 n		ne.	0.05	1.3	light rain	W. W. Eichelberger
Portland, Oregon	29.82	757.4	29.89	759.2	52.8	11.6	86	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C					70	21.1	79	sw.	11	4.9		3 cs	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24 72	627.9	29.82	757.4	46.0	7.8	48	s.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.93	760.2	29.96	761.0	54.5	12.5	93	sw.	16	7.2		0	fg.			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	72	22.2	82	e.	6	2.7		10 cs	0	sw.		0.71	18.0	cloudy	W. J. Evans.
Red Bluff, California	29.52	749.8	29.87	758.7	60	15.6	87	e.	5	2.2			10 ks		s.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.40	746.7	30.06	763.5	40	4.4	65	w.	21	9.4		5 c	0	sw.		0.25	6.3	fair	E. W. McGann.
Roseburg, Oregon	29.37	746.0	29.92	760.0	51.2	10.7	83	calm	0	0		3 c	0	w.		0	0	clear	J. J. Nunry.
Sacramento, California	29.82	757.4	29.90	759.4	57.0	13.9	77	sw.	7	3.1			9 s			0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.70	754.4	30.29	769.4	45.5	7.5	88	nw.	10	4.5		hz.	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.63	752.6	29.67	753.6	33	0.6	88	n.	2	0.9		0	3 s		n.	0	0	clear	A. P. Leavitt.
St. Paul, Minnesota	29.36	745 7	30.20	767.1	37.0	2.8	61	nw.	7	3.1		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.39	746.5	30.25	768.3	29	− 1.7	94	nw.	9	4.0		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.59	650.0	29.91	759.7	53	11.7	61	calm	0	0		4 c	0			0	0	fair	J. Craig.
San Antonio, Texas	29.44	747.8	30.14	765.5	71	21.7	84	ne.	2	0.9			10 s			0	0	cloudy	J. H. Davis.
San Diego, California	29.93	760.2	30.00	762.0	54.2	12.3	77	nw.	3	1.3		5 k	4 s			inap.	inap.	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	29.92	760.0	29.95	760.7	65.0	18.3	90	sw.	16	7.2		9 k	0	sw.		0	0	cloudy	B. A. Blundon.
Sanford, Florida	30.04	761.0			70.0	21.1	90	e.	1	0.4		10cs;ok	0			0	0	cloudy.	J. B. Marbury.
San Francisco, California	29.91	759.7	29.98	761.5	53.5	11.9	90	sw.	6	2.7			10 s		sw.	0.02	0.5	cloudy	N. Gorom.
Santa Fé, New Mexico	23.33	592 6	29.94	760.5	49	9.4	27	e.	9	4.0		8 c	0	w.		0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.01	762.2	30.10	764.5	77	25.0	69	s.	6	2.7		2 c	hz.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	30.01	762.2	40	4.4	67	w.	2	0.9		5 k	0	n.		0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.90	759.4	30.14	765 5	66.3	19.1	73	ne.	9	4.0		4 k	0	nw.		0.13	3.3	fair	L. A. Welsh.
Sill, Fort, Indian Territory	28.98	736.1	30.20	767.1	50.5	10.3	76	n.	8	3.6		7 c	0			0	0	fair	W. M. Mattingly.
Sitka, Alaska	29.88	758.9	29.94	760.5	44	6.7	83	w.	3	1.3			10 ks		w.	0.04	1.0	cloudy	F. W. Ficklett.
Smith, Fort, Arkansas	29.77	756.1	30.24	768.1	57.5	14.2	74	e.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.07	763.8	30.11	764.8	73	22.8	84	sw.	4	1.8		0	3 ks		sw.	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.98	710.7	30.03	762.7	50.3	10.2	86	s.	1	0.4		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.59	751.6	30.26	768.6	45.5	7.5	72	nw.	7	3.1		0	0			0	0	clear	T. B. Jennings.
Springfield, Missouri	28.83	732.3	30.25	768.3	47	8.3	77	n.	2	0.9		0	0			0	0	clear	J. H. Bryce.
Starkville, Miss	29.68	753.9	30.14	765.5	62	16.7	87	n.	10	4.5			10 s		n	1.41	35.8	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.40	721.3	30.23	767.8	30	− 1.1	88	ne.	8	3.6		5 ck	0	w.		0	0	fair	A. Schneider.
Stockton, Fort, Texas	27.13	689.1	30.14	765.5	48	8.9	86	calm	0	0		8 k	0	e.		0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass	29.89	759.2	29.94	760.5	48.0	8.9	96	n.	6	2.7			fg.			0	0	dense fog	G. Liebmann.
Thomas, Camp, Arizona	27.21	691.1	29.88	758.9	55	12.8	47	calm			0	9 cs	0			0	0	cloudy	J. T. Fitzgerald.
Toledo, Ohio	29.47	748.5	30.15	765.8	48	8.9	56	nw.	2	0.9		0	0			0.61	15.5	clear	A. Buell.
Tucson, Arizona	27.49	698.2	29.83	757.7	62	16.7	30	se.	3	1.3		0	8 ks			0	0	cloudy	J. L. Whiteside.
Unalaska, Alaska	29.67	753.6	29.70	754.4	36	2.2	69	sw.	12	5.4		0	6 s		sw.	0	0	fair	Samuel Applegate.
Verde, Fort, Arizona					52	11.1	28	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.87	758.7	30.12	765.0	65.3	18.5	94	calm	0	0			fg.			1.27	32.3	dense fog	James Kenealy.
Visalia, California	29.55	750.6	29.92	760.0	59.3	15.2	73	w.	4	1.8			10 s			0	0	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.50	622.3	29.98	761.5	39.8	4.3	93	nw.	1	0.4		4 k	0			0.09	2.3	fair	T. M. Ambler.
Washington, D. C	29.88	758.9	29.99	761.7	66.1	18.9	92	sw.	3	1.3			10 s		sw.	0.06	1.5	threatening.	T. B. Harrison.
West Las Animas, Colorado	26.12	663.4	29.97	761.2	55	12.8	39	s.	14	6.3		3 c	0	w.		0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.36	745.7	29.96	761.0	65	18.3	68	nw.	7	3.1			10 ks		w.	0.07	1.8	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.11	764.8	72	22.2	90	sw.	4	1.8		5 k	0	nw.		0	0	fair	Samuel A. Haney.
Winnemucca, Nevada	25.49	647.4	29.84	757.9	48.5	9.2	57	ne.	5	2.2		0	6 s		sw.	0	0	fair	J. Grover.
Yankton, Dakota	29.00	736.6	30.28	769.1	43	6.1	63	w.	1	0.4		10 ck	0			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.70	754.4	29.85	758.2	57.0	13.9	72	nw.	1	0.4		2 cs	0	sw.		0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.00	558.8			53.0	11.7	82	calm	0	0			10 s			0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I			29.97	761.2			74	calm	0	0		10 cs	0			0	0	cloudy	Robirt Johnston.
Paramaribo, S. A	30.06	763.5	30.06	763.5	78	25.6	86	e.			3	3 c	4 k	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.34	745.2	29.90	759.4	79	26.1	89	s.			1	0 c	1 k	s.	s.	0.08	2.0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A					76.5	24.7	98	ne.			1					0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I																			Aug. Wallos.
Santiago de Cuba, W. I	29.94	760.5	29.96	761.0	78	25.6	74	calm	0	0		0	0			0	0		R. Mason.
York Factory, B. A	30.20	767.1	30.26	768.6	27.5	− 2.5	94	nw.	10	4.5		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, Malta, Mediterranean	30.08	764.0	67	19.4	74	n.			1		2	nnw.						d. clouds.
H. M. S. Dido, Barbadoes, W. I.	29.98	761.5	82	27.8		ene.			3		5	e.						d. clouds.
H. M. S. Flamingo, N 30° 05′ W. 68° 53′	30.17	766.3	73	22.8	95	ese.			3		2	e.				2	e.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.89	759.2	72	22.2	80	nne.			3		1							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.12	765.0	60	15.6	82	n.			3–6		6							d. clouds.
H. M. S. Rocket, N. 37° 50′, W. 31° 30′	30.12	765.0	66	18.9	89	ssw.			6		7					4	ssw.	d. clouds.
H. M. S. Tyne, Balize, British Honduras	29.89	759.2	80	26.7	82	e			2		10	calm				1	e.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	30.15	765.8	44	6.7	76	se.			3		10	sse.						overcast.
U. S. Navy Yard, Pensacola, Fla.	30.08	764.0	72	22.2	85	w.	3	1.3			5		sw.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H.*	29.79	756.7	49	9.4	93	calm	0	0			10		se.	0	0			foggy.
U. S. S. Alliance, Norfolk, Va	30.06	763.5	68	20.0	95	s.			2		8			0	0			cloudy.
U. S. S. Colorado, New York, N. Y.	30.04	763.0	65	18.3	83	ssw.	14	6.3			10		calm	0	0			cloudy.
U. S. S. Franklin, Norfolk, Va.	30.06	763.5	68	20.0	100	s.	19	8.5			8		calm	0	0			fair.
U. S. S. Jamestown, N. 35° 52′, W. 73° 35′	30.02	762.5	72	22.2	67	sse.			4		10		se.			mod.	sse.	cloudy.
U. S. S. Kearsarge, Norfolk, Va	30.09	764.3	67	19.4	100	ssw.			3		10		sw.					cloudy.
U. S. S. Lancaster, Copenhagen, Denmark	29.64	752.8	49	9.4	85	nne.			3		8		ne.			sm'h		fair.
U. S. S. Michigan, Buffalo, N. Y.	30.07	763.8	38	3.3	90	sw.			2		2		sw.					fair.
U. S. S. Minnesota, New York, N. Y.	29.95	760.7	60	15.6	94	ssw.			2		10		sw.					hazy.
U. S. S. New Hampshire, Newport, R. I.	29.98	761.5	55	12.8	93	sw.			4		10		sw.			sm'h		cloudy.
U. S. S. Portsmouth, Long Island, N. Y.	30.01	762.2	58	14.4	100	sw.			5		5		sw.			sm'h		fair.
U. S. S. Powhatan, N. 21° 47′, W. 76° 03′	29.83	757.7	81	27.2	68	ene.			4		10					r'gh	e.	cloudy.
U. S. S. Quinnebaug, N. 5°20′, W. 10° 06′	29.94	760.5	84	28.9	83	wsw.			1		5		ene.			sm'h		fair.
U. S. S. Saratoga, N. 31° 28′, W. 67° 54′	30.28	769.1	70	21.1	95	e.			3		2		e.	0	0	sm'h	e.	clear.
U. S. S. St. Louis, League Island, Pa.	29.97	761.2	66	18.9	79	sw.	9.8	4.4			10		w.	0	0			cloudy.
U. S. S. Swatara, N. 16° 47′, W. 86° 58′†	29.85	758.2	76	24.4	91	se.			1		10		se.	sli't	sli't	long	e.	cloudy.
U. S. S. Tennessee, Fort Monroe, Va.	30.08	764.0	69	20.6	85	sw.	16	7.2			8		wsw.	0	0			cloudy.
U. S. S. Vandalia, Hampton Roads, Va.	30.04	763.0	66	18.9	94	ssw.			3		8		sw.					fair.
U. S. S. Wabash, Boston, Mass.	29.93	760.2	51	10.6	?	n.	1	0.4			5		sw.	0	0			fair.
U. S. S. Yantic, Hampton Roads, Va.	30.07	763.8	67	19.4	89	ssw.			3		5							fair.
Commewyne, N. 36° 32′, W. 46° 33′	30.19	766.8	66.8	19.3	83	nnw.			4		10							d. clouds.
S. S. British Crown, N. 40° 39′, W. 58° 35′†	30.19	766.8	65	18.3		sw.			3		10		nw.	0	0	sli't	wsw.	
S. S. British Prince, N. 43° 33′, W. 40° 55′			49	9.4		w.			8		6		w.	3 h'r	3 h'r	high	w.	heavy squ'lls
S. S. Illinois, N. 49° 47′, W. 19° 02′*	29.36	745.7	55	12.8		wsw.			5		9		wsw.			mod.	sw.	cloudy.
S. S. Lord Gough, Liverpool Bay, Eng.	29.81	757.1	50	10.0		wnw.			5		2		wnw.			sm'h		clear.
S. S. Ohio, Liverpool, Eng †	29.86	758.4	49	9.4	85	w.			3		1		w.	sh'rs	sh'rs			clear.
S. S Pennsylvania, Philadelphia, Pa †	29.95	760.7	67	19.4		e.			3		10							overcast.
S. S. Circassian, Montreal, Canada	29.75	755.6	55	12.8	93	wsw.			3		10		nw.	¼ h'r	¼ h'r			raining.
S. S. Grecian, Montreal, Canada	29.76	755.9	54	12.2	93	w.			3		10		w.	12 h'r	12 h'r			overcast.
S. S. Nova Scotian, N. 43° 51′, W. 50° 13′	30.15	765.8	40	4.4		nnw.			4		0					mod.	wnw.	clear.
S. S. Polynesian, N. 46° 00′ W. 54° 28′	30.19	766.8	40	4.4		wnw.			4		6		nw.	0	0	sm'h	wnw.	cloudy.
S. S. Manitoban, N. 49° 40′, W. 39° 51′	29.24	742.7	48	8.9	78	nw.			4		6 ?		nw.	6 h'r	6 h'r	r'gh	w.	overcast?
S. S. Scandinavian Montreal, Canada *	29.72	754.9	47	8.3		w.			1		1			10 h'r	10 h'r			blue sky.
S. S. Jason, N. 45° 58′, W. 33° 29′†.	29 52	749 8	51.8	11.0		nnw.			6–7		7 k					7	nnw.	raining.
S. S. Alvo, Kingston, Jamaica, W. I.	30.00	762.0	80	26.7		ese.			4		5 k		se.	0	0			fine.
S. S. Andes, N. 37° 20′, W. 72° 30′						ssw.					1		sw.	0	0	mod.	ssw.	clear.
S. S. Alene, N. 13° 39′, W. 79° 03′†	29.91	759.7	81	27.2		ne.			4		2		ene.	0	0	mod.	ne.	fine.
S. S. Ailsa, Aguadilla, Porto Rico, W. I †	29.89	759.2	79	26.1		ne.			2									fair.
S. S Assyria, N. 40° 21′, W. 37° 37′	29.88	758.9	62	16.7		wsw.			7		6		wsw.	5 h'r	5 h'r	r'gh	wsw.	squally.
S. S. Bolivia, N. 50° 09′, W. 32° 07′*†	29.42	747.3	52	11.1		wsw.			6		8		wsw.	rain	rain	mod.	w.	cloudy.
S. S. Dorian, N. 36° 36′, W. 67° 28′	30.27	768.8	66	18.9		ssw.			3		0			0	0	sm'h		clear.
S. S. Devonia, N. 47° 34′, W. 39° 55′ *†	29.14	740.1	44	6.7		wnw.			6		9		nw.			high	wnw.	hail squalls
S. S. Furnesia, N. 51° 18′, W. 14° 10′†	29.71	754.6	58	14.4	?	ese.			4		8		ese.	0	0	mod.	se.	cloudy.
S. S. Elysia, N. 41° 22′, W. 49° 00′	30.09	764.3	44	6.7	89	wnw.			4		9		wnw.	0	0	mod.	wnw.	cloudy.
S. S. Llandaff City, N. 47° 42′, W. 35° 40′†	29.20	741.7	48	8.9		wsw.			7		7		wnw.	0	0	h'vy	wnw.	cloudy.
S. S. Pavonia, N. 50° 01′, W. 16° 14′	29.48	748.8	57	13.9	94	ssw.			3		9		sw.	7 h'r	7 h'r	sli't	cross	cloudy.
S. S. Ville de Marseilles, N. 22° 02′ W. 88° 55′			76	24.4		ene.			4		3		ene.	0	0	long	ene.	clear.
S. S. Wisconsin, N. 44° 32′, W. 41° 03′			49	9.4		w.			9		5		w.	4 h'r	4 h'r	high	w.	rain & hail.
S. S. Wyoming, N. 42° 20′, W. 53° 17′	30.25	768.3	47	8.3		nw.			5		6		nw.	0	0	long	nw.	fair.
S. S. Bohemia, Hamburg, Germany																		fair.
S. S. Gellert, N. 40° 28′, W. 69° 40′	30.14	765 5	57	13.9	87	s.			2		1		ssw.	0	0	mod.	s.	foggy.
S. S. Rugia, New York, N. Y.	30.00	762.0																
S. S. Silesia, N. 40° 42′, W. 65° 27′	30.17	766.3	53	11.7		wsw.			5		fg.			0	0	3	wsw.	foggy.
S. S. Westphalia. New York, N. Y	30.01	762.2	54	12.2	87	w.			5		8		n.	6 h'r	6 h'r			rainy.
S. S. City of Paris. N. 45° 16′, W. 31° 00′ *	29.40	746.7				wsw.			7		8		w.	0	0	long	w.	squally.
S. S. Colorado, New York, N. Y †.	29.95	760.7	60	15.6		sw.			2		10		sw.	0	0			cloudy.
S. S. Rio Grande. Galveston, Texas *†	30.00	762 0	74	23.3		ese.			1		10		e.	4 h'r	14 h'r			cloudy.
S. S. Chalmette, N 27° 30′, W. 87° 00′†	30.12	765.0	75	23.9		ne.			4		3		nne.	0	0	sm'h		clear.
S. S. Lone Star, N. 33° 15′, W. 76° 48′ †	30.13	765.3	74	23.3		ese.			3		3		se.	0	0	small	se.	clear.
S. S. Alleghany, N. 37° —′ W. 75° 20′ †	30.03	762.7	58	14.4		ssw.			3		4		nw.	light	light	light	s.	squally.
S. S. Archimede, New York Bay, N. Y†	29.98	761.5	66	18.9	64	ssw.			3		6		sw.	0	0			fair.
S. S. Denmark, N. 43° 16′, W. 40° 40′†.	29.53	750.0	56	13.3		w.			8		5		w.	24 h'r	24 h'r	h'vy	wnw.	squally.
S. S. Egypt, N. 46° 07′, W. 36° 24′*†	29.50	749.3	52	11.1		wnw.			6		10		wnw.	8 h'r	8 h'r	r'gh	n.	cloudy.
S. S. Helvetia, N. 40° 40′, W. 57° 45′	30.23	767.8	58	14.4	81	e.			1		10		w.	0	0	sm'h	w.	cloudy.
S. S. Braunschweig, N. 37° 03′ W. 75° 44′	30.09	764.3	62.0	16.7	83	s.			3		8		s.	0	0	sm'h	s.	cloudy.
S. S. Donau, N. 40° 46′, W. 68° 03′	30.13	765.3				s.			3		fg.					sm'h	s.	dense fog.
S. S. Elbe, N. 40° 48′, W. 67° 32′	30.11	765.0	47	8.3	93	s.			3–4		10			0	0	sm'h	ssw.	dense fog.
S. S. Fulda, N. 49° 40′, W. 86° 24	29.88	758.9	50	10.0	100	ssw.			6		10		ssw.	2½h'r	2½h'r	mod.	ssw.	cloudy.
S. S. Hohenzollern, N. 49° 50′, W. 9° 41′ *	29.85	758.2	50.0	10.0		sw.			6		10		sw.	8 h'r	8 h'r	mod.	sw.	rainy.
S. S. Hohenstaufen, N. 46° 40′, W. 34° 51′	29.43	747.5				wsw.			6		7		wsw.	5½h'r	5½h'r	r'gh	w.	squally.
S. S. Main, N. 40° 40′, W. 62° 49′	30.16	766.1	64.4	18.0		w.			3		8		w.			sm'h	sw.	cloudy.
S. S. Neckar, N. 48° 20′, W. 22° 52′	29.57	751.1	50.0	10.0	?	sw.			4		9		w.	rain	rain	mod.	sw.	cloudy.
S. S. Ohio, N. 43° 38′, W. 34° 59′	29.63	752.6				w.			4–6		8		w.	4 h'r	4 h'r	long	w.	rainy.
S. S. Salier, N. 47° 06′, W. 38° 10′			44	6.7		n.			6		10		wnw.	5 h'r	5 h'r	h'vy	wnw.	cloudy.
S. S. Strassburg, N. 50° 30′, W. 1° 05′	30.03	762.7	55.0	12.8	97	w.			4		6		w.	0	0	1	w.	fair.
S. S. Weser, N. 44° 58′ W. 54° 10′	30.27	768.8				wnw.			5		8		s.	0	0	sm'h	w.	cloudy.
S. S. Orinoco, N. 34° 35′ W. 66° 55′ *†	30.28	769.1	80	26.7		ese			1		0			0	0	light	w.	clear.
S. S. Colon, N. 38° 41′, W. 73° 51′†	29.98	761.5	52	11.1		s.			4		3		s.	0	0	mod.	s.	clear.
S. S. Muriel, Antigua, W. I.	30.03	762.7	81	27.2		e.			3		0			0	0	sm'h		clear.
S. S. City of Augusta, New York, N. Y†	29.94	760.5				sse.			4		8		sse.	0	0			cloudy.
S. S. Nederland, N. 41° 01′, W. 66° 57′			47	8.3	92	sw.			4		fg.					sm'h	sw.	foggy.
S. S. Rhynland, N. 45° 50′, W. 35° 00′	29.35	745.5	54	12.2	80	wnw.			7		6		wnw.	0	0	high	w.	squally.
S. S. Pennland, Antwerp, Belgium	30.00	763.5	55	12.8	87	sw.			6		7		w.	2 h'r	2 h'r			squally.
S. S. Waesland, Jersey City, N. J	29.97	761.2	66	18.9		ssw.			4		10		sw.	0.01	0.3			rainy.
S. S. Zeeland, N. 40° 54′, W. 49° 30′*†	30.08	764.0	56	13.3		wnw.			6				w.	0	0	short	nw.	cloudy.
S. S. P. Caland, Rotterdam, Holland	29.87	758.7	51.4	10.8	86	wnw.			5		6		nw.					fair.
S. S. Leerdam, N. 41° 06′ W. 64° 09′	30.08	764.0	48	8.9	100	sw.			4		10			0	0	mod.	w.	foggy.
S. S. Rotterdam, N. 47° 17′, W. 33° 30′	29.37	746.0	53	11.7	87	w.			6		6		wnw.	2 h'r	2 h'r	7	wsw.	squally.
S. S. Schiedam, N. 40° 30′, W. 64° 39′	30.15	765.8	52.7	11.5	86	w.			2		8		w.	0	0	mod.	sw.	cloudy.
S. S. W. A Scholten, New York, N. Y	29.95	760.7	61.6	16.4	94	e.			4		10		ese.	0	0			overcast.
S. S. Caracas, N. 19° 16′, W. 67° 57′†	30.03	762.7	81	27.2	72	ene.			5		2		ene.	0	0	mod.	ne.	clear.
S. S. Valencia, N. 29° 20′ W. 70° 50′ †	30.36	771.1	74	23.3	81	se.			3		2		se.	0	0	mod.	se.	clear.
S. S. State of Florida, N. 47° 02′, W. 38° 30′			48	8.9		wnw.			9		10		w.	4 h'r	4 h'r	high	w.	overcast.
S. S. State of Nevada, N. 48° 30′ W. 35° 33′ †	29.30	744.2	46	7.8		w.			6		5		w.	4 h'r	4 h'r	h'vy	w.	squally.
S. S. State of Alabama, N. 39° 57′, W. 69° 36′*	29.99	761.7	50	10.0		se.			3		10			0	0	sm'h		foggy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Lepanto, N. 42° 02′, W. 8° 47′*	30.32	770.1	59	15.0		calm			0		0			0	0	sm'h		clear.
S. S. Marengo, N. 49° 00′, W. 21° 00′†	29.52	749.8	56	13.3		ssw.			5–6		10		wsw.	2 h'r	2 h'r	long	wsw.	overcast.
S. S. Otranto, N. 41° 58′, W. 55° 35′			56	13.3		wnw.			4		10		nnw.	light	light	mod.	wnw.	cloudy.
S. S. Romano, N. 40° 36′, W. 53° 43′			56	13.3		nne.			3		2		ne.			mod.	n.	clear.
S. S. Oregon, N. 46° 31′, W. 53° 43′	30.02	762.5	38	3.3		n.			7		6		n.			cross	n.	fair.
S. S. Lake Manitoba, Liverpool, Eng	29.79	756.7	55	12.8		var.			5		3		w.	1 h'r	1 h'r			clear.
S. S. Daniel Steinmann, N. 40° 38′, W. 62° 14′†	30.26	768.6	64	17.8		ssw.			2		4		sw.	0	0	sm'h		misty.
S. S. Norman, Philadelphia, Pa	29.90	759.4				sw.			5		5		sw.	0	0			fair.
S. S. Saxon, Boston, Mass†	29.94	760.5				calm			0		10			0	0			
S. S. Baltic, N. 43° 25′, W. 44° 18′*	29.76	755.9	46	7.8	92	nw.			6		8		nw.	sq 'lls	sq 'lls	r'gh	nw.	squally.
S. S Celtic, N. 41° 31′, W. 60° 37′†	30.20	767.1	60	15.6		w.			2		fg.			2 h'r	2 h'r	sm'h		foggy.
S. S. Iowa, N. 42° 57′, W. 42° 37′†	29.91	759.7	50	10.0		w.			7		6		w.	0	0	high	w.	fair.
S. S. Assyrian Monarch, Beachy Head, Eng	29.84	757.9	49	9.4		wsw.			4		3		w.			mod.	w.	clear.
S. S. Antonio Lopez, N. 20° 08′, W. 64° 16′	30.12	765.0	79.5	26.4	74	ne.			4		2			0	0	mod.	ne.	clear.
Schr. Abbie H. Gheen, N. 35° 55′, W. 74° 40′†	30.03	762.7	60	15.6		ssw.			5					0	0			cloudy.
Bg. Abbie Clifford, N. 18° 11′, W. 65° 43′†	30.09	764.3	78	25.6		ene.			3		10		ene.	½h'r	½h'r			drizzling.
Bk. Aquidneck, N. 32° 56′, W. 72° 47′						var.			3				s.	0	0	light	se.	clear.
Bk. Alpha, N. 39° 30′, W. 57° 20′*†	30.32	770.1	64	17.8		nnw.			3		2		n.	0	0	sm'h		clear.
Bg. Alcira, N. 18° 42′, W. 67° 18′	30.05	763.3	82	27.8		e.			5		2		e.	0	0	sm'h	e.	clear.
Bk. Adelaide, N. 31° 19′, W. 46° 01′*†	30.38	771.6	76	24.4		calm			0		1		w.	0	0	light	se.	clear.
Schr. Annie R. Lewis, N. 20° 50′, W. 63° 48′†	30.17	766.3	81	27.2		ne.			3		1		e.	sh'rs	sh'rs	long	nw.	clear.
Schr. Authur Burton, N. 39° 15′, W. 73° 40*†	29.90	759.4				sw.			1		10		sw.	0	0	mod.	ese.	hazy.
Bk. Achille F, N. 24° 30′, W. 25° —†	30.26	768.6	71	21.7	63	ne.			6		6		ne.	0	0	mod.	nne.	squally.
Bg. Annie R. Stoler, Salt Cay, W. I†	30.10	764.5				e.			4		3		e.	0	0			clear.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.92	760.0	82	27.8		ene.			1		2		ene.	0	0			fair.
Bk. Champion, N. 20° 47′. W. 49° 08′			78	25.6	65	e.			4		8		ese.	5 h'r	5 h'r	short	e.	cloudy.
Bkt. C. S. Bushnell, N. 34° 47′, W. 59° 44	30.29	769.4				ne.			2		0			0	0	sm'h		clear.
Ship. Cornelius, N. 50° 01′, W. 20° 02′†	29.44	747.8	53.4	11.9		s.			7		10		nw.	10 h'r	10 h'r	long	nne.	raining.
Bk. Childwall, N. 13° 20′, W. 39° 32′			77	25.0		ne.			6		10		var.	¼ h'r	¼ h'r	light	ne.	overcast.
Schr. Glotilde, N. 38° 45′, W. 73° 08′*†	29.92	760.0	58	14.4		sw.			4		8		sw.	0	0	mod.	sw.	cloudy.
S. David Stewart, N. 35° 39′, W. 63° 44′†	30.14	765.5				s.			3		5		s.	0	0	mod.	sw.	fair.
S. S. D. J. Foley, N. 34° 12′ W. 74° 55′*†	30.15	765.8	75	23.9	81	sse.			3		5		sse.	0	0	long	se.	fair.
Bkt. David A. Preston, N. 36° 32′, W. 65° 25′			74	23.3		sse.			2		0			0	0	long	nw.	
Schr. Edith R. Seward, N. 18° 35′, W. 76° 45′†	30.08	764.0	79	26.1		e.			1		4		e.	0	0	mod.	ese.	clear.
S. E. J. Spicer, Liverpool, Eng	29.85	758.2	48	8.9	92	nw.			7		5		nw.	8 h'r	8 h'r			fair.
Bk. E. D. Bigelow, N. 43° 15′, W. 67° 10′						sse.			2		10			0	0			dense fog.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	30.10	764.5	67	19.4	100	ssw.			1		10		s.	0.11	2.8			cloudy
Schr. F. E. McDonald, Cedar Keys, Fla†	30.13	765.3				e.			4					0	0			clear.
S. Festina Lente, off Bird Rocks, Canada	30.14	765.5	37	2.8		calm			0		10		nw.	0	0	sm'h		overcast.
Bk. George Davis, N. 34° 32′, W. 72° 14′									4				se.	0	0	sm'h	s.	d. clouds.
Bk. Gronsvaer, N. 0° 02′, W. 34° 55′†	29.85	758.1	79.8	26.6		se.			5		6		se.	¼ h'r	½ h'r	mod.	se.	fair.
Bg. Gipsy Queen, N. 32° 10′, W. 76° 56′*†	30.10	764.5				sw.			5		3		sw.			sm'h		fair.
Bk. Godeffroy, Hampton Roads, Va*	30.07	763.8				sw.			5		6		wsw.	0	0			
Bk. Galeon, N. 20° 49′ W. 99° 33′†	29.96	761.0	74	23.3		e.			2		0			1 h'r	1 h'r	sm'h	ne.	blue sky.
S Hedwig, N. 37° 55′. W. 47° 05′	30.21	767.3	63.0	17.2	81	nw.			6		5		nw.	1 h'r	1 h'r	4	nw.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C*†	30.10	764.5	74	23.3		ssw.			1		2		w.	6 h'r	8 h'r			fine.
Bk. John H. Pearson, N. 32° 54′, W. 42° 41′						sw.			1				sw.	0	0	short	se.	clear.
Schr. Isabel Alberto, New York, N. Y†	29.98	761.5				sw.			2		8		sw.	0	0	sm'h		cloudy.
Bk. Cato, N. 38° 48′, W. 11° 00′*†	30.28	769.1				n.			1		1		nnw	0	0	sm'h	nnw	clear.
Bg. John Wesley, Baley's Mills, Ga*†	30.03	762.7				ene.			1		1			0	0			clear.
Schr. Jennie N. Huddell, Baltimore, Md†	30.02	762.5	71	21.7	85	sw.			1		2†		sw.	2 h'r	2 h'r			cloudy?
Bkt. Josephine, N. 11° 21′, W. 50° 18′†	29.96	761.0	85	29.4	64	ne.			5		2		ne.	0	0	long	ne.	fair.
Schr. Leonessa, N. 39° 10′, W. 76° 24′†	30.02	762.5				s.			1		0†			2 h'r	2 h'r			raining?
Bg. L. & W. Armstrong, N. 20° 35′, W. 66° 51′*†	30.10	764.5				ene.			4		1		ne	0	0	mod.	ne.	clear.
Light House Tender Laurel, Appalachicola Bay, Fla†	30.11	764.8	76	24.4		ne.			1–2		6		s.	0	0			fair.
Bg. Lilian, N. 19° 16′, W. 58° 05′†	30.05	763.3	81	27.2		sse.			1		3		se.	0	0	mod.	var.	fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	78	25.6		se.			1		4			4 h'r	4 h'r			fair.
S. S. Madrid, Ancona, Italy†	30.04	763.0	68	20.0	69	ne.			1		2		calm	0	0			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga†	30.15	765.8	81	27.2		sw.			1		0			0	0			clear.
Bkt. Kryolith, N. 58° 13′. W. 45° 45′*†	29.98	761.5				ne.			7		8		ne.	0	0	h'vy	ne.	cloudy.
S. Mt. Washington, N. 13° 20′ W. 30° 25′*†	30.12	765.0	81	27.2	70	ne.			6		9		ne.	2 h'r	2 h'r	r'gh	ne.	cloudy.
Bk. Matthias, N. 38° 03′, W. 64° 48′*†	30.37	771.4	72	22.2		sw			1					0	0	mod.	sw.	fair.
Schr. Maggie Abbott, Baracoa, Cuba, W. I†	29.99	761.7							4		3		e.	0	0	hv'y	ne.	clear.
Schr. Maud Briggs, N. 26° 30′, W. 59° 34′ *†.	30.18	766.6				calm			0		4			0	0	sm'h	ne.	clear.
Bk. Ottawa, N. 39° 07′, W. 67° 55′*	30.10	764.5	62	16.7		sw.			3		2		wsw.	0	0	small	wsw.	clear.
S. S. Raleigh, Baracoa, Cuba, W. I†	30.09	764.3	75	23.9		ne.			2		0							clear.
S. Rudolph, N. 48° 39′ W. 15° 05′			55.5	13.1		s.			6		10		s;w.	15h'r	15 h'r	long	var.	rainy.
Bk Rebus, N. 47° 34′, W. 22° 45′	29.49	749.0	50	10.0		ssw.			6		10		wsw.	2 h'r	2 h'r	long	sw.	heavy rain.
Bg. Rising Sun, N. 34° 15′, W. 71° 15′*†	30.30	769.6	75	23.9		s.			1		1		s.	0	0	mod.	s.	
Bk. Rosalie, Saint John, Antigua, W. I*†	30.00	762.0				ese.			3					2½h'r	2½h'r			clear.
S. Salisbury, N. 48° 09′, W. 8° 02′*	29.95	760.8	53.6	12.0	86	ssw.			6		10		sw.	1 h'r	1 h'r	mod.	nw.	cloudy.
Bk Southern Belle, Huelva, Portugal†	30.12	765.0	70	21.1		e.			2		0			0	0			clear.
S. St. Francis, N. 22° 42′, W. 40° 15′†	30.31	769.9	76	24.4	64	ene.			6		6		ne.	½h'r	½h'r	mod.	ne.	squally.
Bk. St. Lawrence, N. 20° 28′, W. 57° 47′*†	30.00	762.0				var.			1				sse.			light	e.	showery.
S. S. Strathleven, N. 36° 08′, W. 5° 22′	30.14	765.5	60.8	16.0	78	ene.			3		5		e.	0	0			d. clouds.
Bgt. Sunlight, N. 7° 56′, W. 57° 15′ *†	30.12	765.0				e.			4		9		e.	6 h'r	6 h'r	mod.	ese.	raining.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	29.93	760.2				n.			2		1							
Bk. Usko, N. 38° 58′, W. 62° 30 *	30.17	766.3	73	22.8		w.			2		1		w.	0	0	mod.	nw.	clear.
S. Vincenzo Accame, N. 36° 58′. W. 52° 00′†	30.31	769.9	69.8	21		n.			4		0			0	0	light		clear.
Schr. Viola Reppard, Baltimore, Md†	30.00	762.0	74	23.3		calm			0		10			0	0			cloudy.
Bk. Winifred, N. 19° 03′, W. 57° 25′ *†	30.10	764.5											se.	0	0		se.	clear.
S. Wm. McGilvery, N. 22° 31′, W. 38° 18′*†.	30.25	768.3	74	23.3	81	ese.			4		6		se.	0	0	mod.	ne.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	29.98	761.5	57	13.9	94	e.			2		4	s.						d. clouds.
H. M. S. Boadicea, Cape Town, Cape Colony, Africa	30.18	766.6	64	17.8	94	wnw.			1		9							d clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.87	758.7	55	12.8	93	ne.			2		9							d. clouds.
U. S. S. Thetis, S. 30° 34′, W. 41° 05′	29.95	760.7	69	20.6	85	nnw.			4		3	sw.				4	sw.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*.	29.85	758.2	57	13.9	87	ne.	13	5.8			8		ne.	0	0	sm'h		cloudy.
U. S. S. Enterprise, Simon's Town, Cape Colony*	30.14	765.5	62	16.7	61	nw.			3		5		calm			sm'h		fair.
U. S. S. Galena, Montevideo, Uruguay*	29.87	758.7	57	13.9	94	ene.			2		8		ene.			sm'h		cloudy.
May Hulse, S. 56° 59′, W. 62° 35′	29.30	744.2	37.1	2.8	81	nnw.			3		10							overcast.
S. S. Jerome, Amazon River, Brazil*	29.71	754.6	79	26.1		ne.			1		8		se.	0	0			cloudy.
S. S. Hevelius, Buenos Ayres, La Plata†	29.93	760.2	60	15.6		ene.			5		8		ne.	2 h'r	2 h'r			cloudy.
S. S. Minnie N. Gerow, S. 27° 12′, W. 31° 49′ †.	29.98	761.5	77	25.0		wnw.			3		5		nw.	0	0	sm'h	s.	fair.
S. S. Mendoza, S. 1° 56′, W. 37° 12′ †	30.00	762.0				ese.			4				ese.	1 h'r	1 h'r	sm'h	ese.	overcast.
S. S. Paramita, S. 42° 03′, W. 41° 42′†	29.53	750.6	49	9.4		sw.			0–9		4		wsw.	7 h'r	7 h'r	long	wsw.	fair.
S. S. Storm King, S. 46° 07′, W. 58° 18′ *†	29.87	758.7				ssw.			7		6		ssw.	2 h'r	2 h'r	sm'h	s.	fair.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woo Sung, China	29.86	758.4	66	18.9	74	ne.			1		7	ne.						d. clouds
H. M. S. Champion, N. 13° 22′, E. 100° 34′	29.73	755.1	87	30.6	92	ssw.			5		10	ssw.					2	s.	thund'r st'm
H. M. S. Sappho, N. 8° 56′, W. 79° 31′	29.81	757.2	79	26.1		calm			0		8	nw.						drizzling.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 05′	29.83	757.7	51.5	10.8	94	se.			1		1	ese.				sm'h		foggy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Swiftsure, Esquimalt, V. I	29.99	761.7	50	10.0	86	calm			0		5	sse.						d. clouds.
H. M. S. Zephyr, N. 37° 00′, E. 123° 00′	29.84	757.9	55	12.8	81	ssw.			3		0							blue sky.
H. P. M. S. Tamega, Macao, China	29.83	757.7	85.1	29.5	81	sw.			4		10			½h'r	½h'r			overcast.
U. S. Naval Hospital, Yokohama, Japan	29.98	761.5	52	11.1	96	n.			2		10		n.	0.29	7.4			raining.
U. S. S. Adams, Wright sound, Alaska †	30.00	762.0	48	8.9	92	wsw.			3		8					sm'h		cloudy.
U. S. S. Monocacy, N. 33° 03′, E. 127° 45′	29.90	759.4	62	16.7	88	nw.			3		8		nw.			sm'h		cloudy.
U. S. S. Palos, Hong Kong, China	29.75	755.6	76	24.4	100	e.			1		10		ssw.					cloudy.
U. S. S. Richmond, Hong-Kong, China	29.74	755.4	79	25.1	86	sw.			1		5		ene.	2.5	64.			fair.
S. S. Mexico, N. 22° 51′ W. 110° 09′ †	29.92	760.0	68	20.0	84	nw.			3		3		nw.			sm'h		clear.
S. S. Coptic, N. 40° 49′, W. 150° 47′	30.05	763.3	54.0	12.2	100	nw.			6		10		nw.	14 h'r	14 h'r	mod.	w.	raining.
S. S. Oceanic, N. 40 06′, W. 166° 11′*	29.72	754.9	53	11.7	86	wsw.			5		7		w			5	wsw.	fair
S. S. City of Chester, Hookton, Cal †	29.95	760.7	52	11.1	93	calm			0		10			0	0			overcast
S. S. Oregon, N. 45° 42′, W. 124° 05′†	30.00	762.0	53	11.7	93	nnw.			1		8		nw.			sm'h		cloudy.
S. S. Ancon, N. 37° 24′, W. 122° 35′ †	29.96	761.0	54	12.2	87	calm			0		2					mod.	w.	clear.
S. S. Dakota, Seattle, Wash. Ter †	29.95	760.7	54	12.2	87	s.			2		5		w.	0	0	sm'h		fair.
S. S. Australia, N. 27° 21′, W. 146° 12′	30.18	766.6	69	20.6	80	e.			3		7		ne.	0	0	mod.	e.	fair.
S. S. City of New York, N. 24° 09′. W. 153° 38′†	30.17	766.3	74	23.3	76	ne.			5		10		ne.	0	0	sm'h		cloudy.
S. S. City of Pekin, Yokohama, Japan			51	10.6	100	nnw.			5		10		n.	0	0			cloudy.
S. E. B. Sutton, N. 21° 00′ W. 124° 10′ †	30.07	763.8	66	18.9	84	calm			0		4			0	0	sm'h	n.	fair.
S. S. Colima, N. 15° 33′, W. 94° 43′ †	29.92	760.0	82	27.8	83	n.			6		0			0.55	14.0	mod.		clear.
S. S. Granada, N. 15° 37′ W. 97° 04′ †	29.94	760.5	83	28.3	75	calm			0		1		e.	0	0	small	w.	clear.
S. S. San José, Panama, Panama †	29.84	757.9	79	26.1		nnw.			1		8 n		n.	2 h'r	2 h'r			cloudy.
S. Armenia, N. 22° 45′ W. 125° 50′ *	29.97	761.2	67	19.4	74	calm			0		3			0	0	sm'h		clear.
S. S. Benledi, Hong Kong, China †	29.79	756.7	80	26.7	91	var.			3-6		6		s.	4 h'r	4 h'r	sm'h		raining.
Bk. Bore, Macassar, Celebes Id*†	30.22	767.6	86	30.0		ese.			1									
S. Grecian, N. 1° 50′, E. 130° 30′†	29.90	759.4	80	26.7	91	w.			4		5		w.	12 h'r	12 h'r	sm'h	n.	fair.
S. Titan, N. 19° 36′, W. 126° 55′*†	30.10	764.6	70	21.1	90	nne.			3		2		ne.	0	0	sm'h	ne.	clear.
Bk. Xenia, N. 16° 57′, E. 116° 32′			86	30.0		e.			4		1		e.	0	0	sm'h		clear.
U. S. S. Ranger, N. 13° 54′, W. 91° 17′†	29.89	759.2	77	25.0	82	nnw.			2		2			0	0			fair.
District No. 4—South Pacific.																		
H. M. S. Diamond, S. 33° 34′, E. 151° 33′			64	17.8	100	sse.			6		6	s.				6	se.	showery.
H. M. S. Espiegle, S. 18° 08′, E. 178° 26′	30.03	762.7	78	25.6	61	ese.			1		10							d. clouds.
H. M. S. Kingfisher, S. 17° 32′, W. 149° 34′	29.89	759.2	74	23.3		calm			0		2							d. clouds.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.91	759.7	61	16.0		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	30.06	763.5	62	16.7	100	s.			2-6		8							showery.
U. S. S. Hartford, S. 8° 50′, W. 148° 50′ *.	29.81	757.2	80	26.7	96	ene.			2		8			0	0	sm'h		cloudy.
U. S. S. Iroquois, Valparaiso, Chili	29.88	758.9	59	15.0	94	n.			4		10					mod.		misty.
U. S. S. Lackawanna, S. 41° 10′, W. 133° 01′ *	30.36	771.1	56	13.3	81	nne.			4		8		ne.			long	ne.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	64	17.8	83	sw.			2		10		s.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.95	760.7	64	17.8	83	s.	5	2.2	5		10			0	0			cloudy.
U. S. S. Wachusetts, Apia, Upolu Id, Oceania	29.86	758.4	77	25.0	86	se.			2		2		se.			sm'h		clear.
S. S. City of Sydney, Sydney, N. S. W*†	30.28	769.1	59	15.0	59	s.			5		6			0	0			fair.
S. S. Zealandia, Sydney, N. S. W	30.27	768.8	58	14.4	88	s.			4		10							cloudy.
S. David Crocket, S. 40° 04′, W. 93° 30′ *.	30.28	769.1	52	11.1	79	sse.			5		7		sse.	4 h'r	4 h'r	long	se.	squally.
H. M. S. Lark. S. 26° 24′, E. 153° 37′	30.09	764.3	69.3	20.7	100	ese.			6		6					6	se.	squally.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′ E. 44° 58′	29.70	754.4	86	30.0		ese.			2		5	e.						d. clouds.
H. M. S. Euryalus, N. 8° 40′, E. 81° 50′	29.72	754.9	84	28.9	87	sse			2		2	sse.				1	sse.	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.95	760.7	82	27.8	91	se.			1		2	sse.				4	sse.	d. clouds.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.86	758.4				sw.			4		0					2	sw.	blue sky.
H. M. S. Woodlark, N. 28° 42′, E. 50° 50′	29.74	755.4	84	28.9	91	n.			7		5					2	nw.	showery.
U. S. S. Juniata, N. 25° 15′, E. 57° 44′	29.68	753.9	88	31.1	80	sw.			3		1			0	0	sm'h		clear.
S. S. Salerno, Suez Canal, Egypt†	29.93	760.2	70	21.1		calm			0		0			0	0	sm'h		clear.
Bk. Alpheus Marshall, S. 34° 25′, E. 27° 27′ *†	29.80	756.9				w.			9		9			3 h'r	3 h'r			hail squalls
S. Annie M. Law, S. 20° 10′, E. 75° 00′ *†	30.05	763.3	78	25.6		ese.			1		1		ese.	0	0	long	ssw.	clear.
S. S. Burswell, N. 15° 55′, E. 41° 30′*†	29.86	758.4	90	32.2		nnw.			2		4		nnw.	0	0	sm'h		fair.
Bk. Ceylon, S. 27° 23′, E. 47° 03′ *†	30.22	767.6	78	25.6	82	ene.			5		0			0	0	long	ene.	clear.
S. Dynomene, S. 36° 00′ E. 26° 40′	29.76	755.9	64	17.8	78	sw.			9		8			h'vy	h'vy	high	wsw.	raining.
S. S. Malabar, N. 9° 50′ E. 66° 00′						w.			3		5		sw.	0	0	mod.	sw.	fair.
Bk. Pilgrim, Anjer, Persia*†	29.90	759.4				s.			4		4		s.	0	0			fair.
S. S. Radnorshire, N. 9° 27′, E. 70° 50′ *†	29.80	756.9				w.			6		10		w.	3 h'r	3 h'r	mod.	var.	overcast
S. St. David, S. 29° 16′, E. 96° 10′ *†	30.18	766.6	65	18.3	84	ssw.			3		9		ssw.	4 h'r	4 h'r	long	sw.	cloudy.
S. S. Foscolia, N. 6° 18′ E. 70° 15′ †	29.88	758.9				var.			3		8		var.	6 h'r	6 h'r	high	var.	threatening.

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



UNITED STATES OF AMERICA.

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

Signal Office 1883.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 12, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.21	767.3	65.5	18.6	73	n.			4		0			0.807	20.5	clear	Malaterre.
Algiers			30.20	767.0	63.3	17.4	61	ne.			6		0			0	0	clear	Thève.
La Calle			30.17	766.4	69.1	20.6	58	n.			2		2			0	0	fair	Foufrède.
Tunis			30.20	767.0															Jacques.
Saida			30.17	766.4															Pérès.
Tebessa			30.06	763.5	66.9	19.4	45	n.			1		3			0	0	pretty fair	St. Martin.
Geriville					70.5	21.4	26	ese.			6		4			0	0	cloudy	Forfert.
Laghouat			29.95	760.8	75.2	24.0	25	se.			5		3			0	0	pretty fair	Abraham.
Biskra			30.03	762.8	82.4	28.0	44	calm			0		4			0	0	cloudy	Gonzon.
Australian.																			
Adelaide, South Australia			30.37	771.4	55.5	13.1	67	ese.	11	4.9		2 c				0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria.	30.29	769.3	30.38	771.6	55.0	12.8	81	se.	10	4.5			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.57	751.0	30.11	764.7	64.4	18.0	37	sw.			3		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.29	744.0	30.06	763.4	56.5	13.6	50	nw.	3.8	1.7			6			0.039	1.0		Dr. Wierzbiski
Eperies	29.12	739.7	29.99	761.8	59.4	15.2	41	n.			5		8 ks			0	0		Julius Mikolik.
Gratz	28.87	733.2	30.11	764.7	60.6	15.9	41	w.			3		8			0.177	4.5		Andreas Rospini.
Hermannstadt	28.50	723.8	29.93	760.2	52.2	11.2	92	nw.			1		10			0.752	19.1	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.83	732.3	30.19	766.9	49.8	9.9	69	w.			4		10			0.492	12.5	raining	The Staff.
Lemberg	29.04	737.5	30.02	762.6	53.8	12.1	66	ne.			2		10			0.020	0.5		Dr. T. Stanecki.
Neu Schmecks	26.63	676.4	30.00	762.1	48.7	9.3	66	n.			2		8			0.181	4.6		Dr. V. von Szontagh.
Pola	29.95	760.7	30.03	762.7	62.6	17.0	58	wsw.			3		2			0	0		I. R. Hydrographic Office.
Szathmar	29.43	747.9	29.90	759.4	64.2	17.9		n.			3		8			0.004	0.1		Joseph Midlinszky, S. J.
Szegedin	29.71	754.7	29.99	761.7	64.4	18.0	41	n.			2		6			0	0		Karl Stancel.
Trieste	30.03	762.8	30.13	765.3	63.3	17.4	54	w.			1		4			0	0		Royal Academy.
Vienna	29.41	746.9	30.12	765.0	57.4	14.1	39	wnw.			2		8			0.051	1.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.36	745.7	29.46	748.3	43.4	6.3	93	s.	18	8.0			10			0.015	0.4	drizzling	W. Boswell.
Armagh, Observatory	29.30	744.2	29.53	750.0	53.4	11.9	61	sw.	20	8.9			5					squally	S. Call.
Bidston, Liverpool Obs'y			29.64	752.8	60.0	15.6	51	sw.	33	14.8			2					blue sky	John Hartnup.
Bolton, Sharples	29.09	738.9	29.02	752.3	59.1	15.1	59	sw.	30	16.1			5					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.22	742.2	29.61	752.1	56.7	13.7	73	sw.			2		8			0.01	0.3	raining	McLandsborough&Preston.
Bridgetown, Barbadoes	29.94	760.5	29.98	761.5	80.0	26.7	87	se.			3		8					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.71	754.6	29.81	757.2	54.4	12.4	93	sw.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	29.74	755.4	29.87	758.7	52.5	11.4	96	sw.			2		10					misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.64	752.8	29.87	758.7	54.7	12.6	91	sw.			6		10					overcast	The Staff.
Fort Napier, Natal	27.83	706.9	30.05	763.3	71.0	21.7	39	ne.			1		2					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	88.0	31.1	62	n.			1		4					raining	Sergt. C. E. Keane.
Galway, Queen's College	29.49	749.0	29.52	749.8	53	11.7	73	sw.			3		6			0.30	7.6	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.18	766.6	30.23	767.8	60.0	15.6	88	e.			3		8					raining	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.26	743.2	29.46	748.3	51.1	10.6	78	wsw.			7		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.67	753.6	29.84	757.9	54.1	12.3	92	sw.			6		10			blank	blank		The Staff.
Guernsey	29.70	754.4	30.00	762.0	53.2	11.8	98	ssw.			5		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.81	757.2	29.85	758.2	54.7	12.6	90	sw.	22	9.8			10					threatening	The Staff.
Leicester, Museum	29.47	748.5	29.72	754.9	56.8	13.8	84	sw.			1		10					raining	J. C. Smith.
Malta, Mediterranean	30.04	763.0	30.11	764.8	64.8	18.2	67	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.99	761.7	30.04	763.0	76.0	24.4	84	e.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.22	742.2	29.74	755.4	54.5	12.5	80	ssw.			6		10					threatening	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.59	751.6	29.82	757.4	55.0	12.8	98	sw.			5		10					drizzling	The Staff.
Plymouth	29.81	757.2	29.88	758.9	54.4	12.4	97	wsw.			6		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.30	744.2	29.40	746.7	44.9	7.2	84						10					raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.73	755.1	29.79	756.7	68.8	20.4	73	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.41	747.0	29.68	753.9	61.1	16.2	69	s.			2		4			0.02	0.5	d. clouds	W. F. Cooper.
Sillioth Rectory	29.52	749.0	29.55	750.6	56.5	13.6	70	sw.			4		2			0.250	6.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.64	752.8	55.3	12.9	78	wsw.	25	11.2			7			blank	blank	d. clouds	W. C. Carlisle.
Truro, Royal Institution	29.83	757.7	29.90	759.4	58	14.4	88	sw.			7		10					raining	W. Newcombe.
Valencia, Observatory	29.54	750.3	29.56	750.8	50.6	10.3	84	se.	31	13.9			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.74	755.4	30.13	765.3	64.4	18.0	53	nw.	12.4	5.5		1 c		w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.88	758.9	29.92	760.0	42	5.6	97	calm	0	0			10 n		calm	0.255	6.5	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.94	760.5	30.00	762.0	39	3.9	89	ne.	1	0.4			10 s			0.38	9.7	cloudy	G. A. Blair.
Cornwall, Ontario	29.78	756.4	29.98	761.5	42.0	5.6	68	w.			1	0	9 s			0.013	0.3	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.96	761.0	30.01	762.2	37.5	3.1		calm			0		10 s			0.280	7.1	overcast	H. A. Johnson.
Father Point, Quebec*	29.92	760.0	29.91	760.5	37	2.8	89	nw.	15	6.7		5 ck	5 ks	calm	calm	0.06	1.5	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.45	748.0	30.34	770.6	26	— 3.3	88	ne.	3	1.3		0	0			0	0	clear	James Stewart.
Fredericton, N. B	29.94	760.5	30.01	762.2	44.1	6.7	84	calm	0	0			10 n			0.180	4.6	light rain	Prof. Harrison, L. L. D.
Granton, Ontario	28.89	733.8	30.02	762.5	40.0	4.4	100	sw.	2	0.9		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.83	757.7	29.96	761.0	48	8.9	96	w.	1	0.4			10 k		w.	0.017	0.4	cloudy	A. Allison.
Hamilton, Ontario	29.55	750.6	29.94	760.5	46.2	7.9	83	sw.			3	5 k	0	w.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.66	753.4	30.00	762.0	42	5.6	74	s.	8	3.6		5 c	2 s	w.	calm	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.91	759.7	29.95	760.7	37.5	3.1	97	se.			2		fg.			0.530	13.5	foggy	C. H. Rigby.
Montreal, Quebec*	29.80	756.9	30.01	762.2	45	7.2	47	s.	8	3.6		5 ck	2 ks	w.	w.	inap.	inap.	fair	C. H. McLeod, C. E.
Ottawa, Ontario	29.71	754.6	29.96	761.0	40.3	4.6	73	se.			2	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.24	742.7	29.96	761.0	35	1.7	79	s.	6	2.7		5 k	5 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.23	742.4	29.99	761.7	44.7	7.1	84	sw.			1	2 c	0	w.		0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.34	745.2	30.05	763.3	44	6.7	68	sw.	7	3.1		8 c	0	w.		0	0	fair	H Morgan.
Port Stanley, Ontario	29.39	746.5	30.04	763.0	44	6.7	86	sw.	10	4.5		5 ck	0	w.		0	0	cloudy	N. Payne.
Quebec, Quebec*	29.65	753.1	30.01	762.2	42	5.6	74	s.	8	3.6			sk			0.02	0.5	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	29.46	748.3	29.95	760.7	34	1.1	74	calm	0	0			10 s		sw.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.94	760.5	29.99	761.7	47	8.3	92	n.	4	1.8		2 k	2 k	nw.	n.	0.19	4.8	fair	
St. John, N. B	29.80	756.9	29.90	761.0	44.0	6.7	92	n.	4	1.8			10 s			0.220	5.6	overcast	G. Murdock, C. E.
Saint John's, N. F	30.087	764.07	30.347	770.67	37	2.8	90	ne.			2		10 n			0	0	overcast	J. Higgins.
St. Pierre, N. F			30.12	765.0	34.9	1.6		se.			4					0.48	12.2		The Commandant
Saugeen, Ontario*	29.23	742.4	29.96	761.0	38	3.3	82	sw.	8	3.6		8 cs	0			0	0	cloudy	
Stratford, Ontario	28.72	729.5	30.02	762.5	43.6	6.4	70	w.	12	5.4		1 c;cs	0	w.		0	0	blue sky	C. J. Macgregor, M A
Sydney, C. B*	29.91	759.7	29.98	761.5	37	2.8	92	calm	0	0			10 n			0.70	17.8	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.64	752.8	30.03	762.7	42	5.6	76	w.	7	3.1		5 ck	0	nw.		0	0	fair	Magnetic Observatory.
Windsor, N. S	29.85	758.2	29.94	760.5	47.5	8.6	92	n.	4	1.8			10 n			0	0	overcast	Prof. W. B. Butler, M.A
Woodstock, Ontario	28.97	735.8	30.04	763.0	48.1	8.9	60	s.	15	6.7		3 cs	0	w.		0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.92	760.0	29.99	761.7	42	5.6	100	nw.	4	1.8			10 k		nw.	0.23	5.8	cloudy	Lt. F. E. Wilmot, R. N.
London, Ontario	29.12	739.6	30.04	763.0	43.5	6.4	67	n.			2	0	2 ks			0	0	blue sky	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	30.20	767.1	30.23	767.8	64.0	17.8	77	w.	19.4	8.7		0	2 s			0	0	hazy	John Duthie.
Springbok Fontein	27.95	709.9			66	18.9	28	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.00	635.1																	A. Guelny.
Tchang-kia-tchouang	29.75	755.6	29.86	758.4	72.9	22.7	27	se.			1		0			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.83	757.6	29.85	758.2	59.4	15.2	94	e.	18.3	8.2			10 n			0.512	13.0	raining	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.88	758.9	29.93	760.1	52.9	11.6	44	wsw.	22	10			7						Oversergent Fischer.
Fanoe	29.91	759.6	29.93	760.1	50.2	10.1	78	wsw.			6		1						Overloerer Lauridsen.
Godthaab, Greenland	30.01	762.3	30.06	763.4	31.1	− 0.5	88	sse.			4		10					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	30.01	762.3	30.06	763.5	33.6	0.9		n.			2		4						
Stykkisholm, Iceland	29.82	757.5	29.87	758.6	33.6	0.8	87	ne.			7		2						A. O. Thorlacius.
Thorshavn	29.37	746.0	29.39	746.6	48.0	8.9	86	e	9	4			5						Overloerer Bergh.
Vestervig	29.76	755.8	29.85	758.1	49.1	9.5	82	sw.			6		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.73	755.2			84.6	29.2		w.	3.1	1.4		0	0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.69	754.2	30.35	770.8	62.2	16.8	74	se.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.58	751.2	30.13	765.2	48.9	9.4	95	s.			1	0	8 n		n.	0	0	very cloudy	M. Nicot, Director.
Arras, Engineer School	29.80	757.0	30.06	763.6	52.7	11.5	86	sw.			6		kns		nw.	0	0		M. Fénéon, Command't.
Avignon, Normal School	30.18	766.5	30.26	768.5	68.0	20.	54	nw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.63	752.7	30.19	766.9	55.0	12.8	59	s.			2		10			0.181	4.6	covered	M. Saillard, Director.
Beauvais, Normal School	29.82	757.3	30.08	764.1	55.9	13.3	79	wsw.			2		10		sw.	0.177	4.5	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.31	744.5	30.21	767.2	57.6	14.2	57	ssw.			1		n		sw.	0.028	0.7		M. Gobin, Director.
Bordeaux, Observatory	29.98	761.6	30.24	768.1	67.3	19.6	37	ssw.			1		2			0.004	0.1	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.64	752.8	30.18	766.6	62.6	17	52	w.			3		k		w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.84	757.8	30.08	763.9	56.8	13.8	82	sw.			4		10		sw.	0.020	0.5		M. de Kermarée, Dir.
Caen, Normal School	29.95	760.8	30.03	762.7	58.3	14.6	78	sw.			3		10		sw.	0.071	1.8	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch't	29.80	756.9	30.12	765.1	49.5	9.7	80	s.			1		10			0.142	3.6	covered	M. Jadot, Director.
Charleville, Normal School	29.58	751.4	30.10	764.6	48.6	9.2	58	w.			3		10			0.35	9.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.88	733.5	30.21	767.3	67.3	19.6	33	wsw.			2		2			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.40	746.8	30.25	768.4	61.7	16.5	38	w.			2		5		w.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.33	744.9	30.20	767.1	50.4	10.2	76	sw.			4		n	sw.	sw.	0.587	14.9		Dr. Coulet, Director.
Gap, Normal School	27.67	702.9	30.17	766.4	60.4	15.8	33	ne.			1		1 ck	0		0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.10	739.2	30.22	767.5	65.7	18.7	36	nw.			2		2		w.	0	0		M. Kina, Director.
Grenoble, Normal School	29.50	749.2	30.28	769.0	60.4	15.8	55	ese.			1	0	2 s			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.63	727.1	30.26	768.6	60.1	15.6	50	nw.			1		0			0	0	clear	M. Delorme, Dir.
Lambaile, Normal School	29.90	759.4	30.17	766.4	55.0	12.8	83	ssw.			4		5		ssw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.65	753.1	30.20	767.1	70.5	21.4	25	w.			1	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.04	762.9	30.14	765.5	57.2	14.0	78	sw.			3		10		ssw.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.21	741.7	30.26	768.5	62.1	16.7	35	ene.			1	2 c	0			0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.85	758.3	30.17	766.2	59.0	15.	73	w.			3		8		w.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.98	761.4	30.24	768.2	61.7	16.5	57	w.			2		0			0	0		M. Stephan, Director.
Montlouis	25.07	636.8	29.91	759.8	50.9	10.5	34	se.	9.4	4.2			2	nw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.13	765.2	30.25	768.3	64.9	18.3	60	sw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.39	746.4	30.18	766.5	49.6	9.8	79	sw.			2		kn		sw.	0.303	7.7		M. Hasse, Director.
Nantes, Observatory	30.06	763.5	30.22	767.6	61.5	16.4	50	wsw.			2.3		10 n; kn		wsw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.17	766.4	30.28	769.2	68.2	20.1	43	e.	3.8	1.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.0			33.4	0.8		w.			1		1		w.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.14	740.1	30.19	766.9	64.0	17.8	47	se.			1	0	0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.32	643.0			39.7	4.3	67	w.			4	2 c	0			0	0	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.20	767.0	30.23	767.8	65.8	18.8	47	sw.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.95	760.7	30.17	766.2	63.3	17.4	65	w.			1		2		sw.	0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	28.09	713.4	30.21	767.4	61.3	16.3	58	calm			0	0	0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.02	762.6	30.07	763.8	55.8	13.2	77	sw.			1		10	sw.		0.106	2.7	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.98	761.6	30.15	765.7	54.1	12.3	78	wsw.			2		10		wsw.	0.130	3.3		M. Renou, Director.
Toulouse, Observatory	29.59	751.6	30.32	770.1	70.9	21.6	30	n.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	30.04	763.1	30.22	767.6	64.4	18.0	47	sw.			4		8	wsw.	sw.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.64	752.8	30.13	765.2	55.0	12.8	77	w.			2					0.102	2.6		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.10	764.6	30.25	768.4	71.6	22.0	36	sw.	2.0	0.9		0	0			0	0	clear	M. Cartier, Director.
GERMAN.																			
Ansbach	28.71	729.1	30.19	766.9	44.6	7.0	80	w.			4		10	w.		0.189	4.8		Prof. Jnedt.
Bamberg	29.25	742.9	30.10	764.4	48.7	9.3	60	nw.			2	0	8 ks		w.	0.118	3.0	raining	Prof. Dr. Hoh.
Berlin	29.94	760.4	30.08	764.1	56.1	13.4	48	s.			3		4			0.083	2.1		Meteorological Institute.
Breslau	29.59	751.5	30.12	765.0	52.0	11.1	45	wnw.			2		10					sprinkling	Royal University Obs'y
Carlsruhe	29.74	755.5	30.21	767.4	48.4	9.1	84	sw.			5		10	sw.		0.406	10.3	raining	Albert Senz.
Cassel	29.34	745.3	30.06	763.4	49.5	9.7	67	sw.			4		8	sw.		0.150	3.8		Dr. H. Möhl.
Frankfort-on-the-Main			30.14	765.6	48.0	8.9	88	ssw.			1		10			0.154	3.9		Physical Society.
Friedrichshafen	28.83	732.2	30.27	768.8	50.0	10.0	73	w.			2		10	w.		0.177	4.5	raining	Wilhelm, Chief Tel.
Hamburg	29.95	760.6	30.04	762.9	51.1	10.6	67	sw.			4		5			0.130	3.3		E. Preller.
Kiel	29.95	760.6	29.96	761.0	53.2	11.8	52	sw.			4		7			0.055	1.4		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.69	754.2	30.12	765.0	52.3	11.3	57	ssw.			1		7	sw.		0.193	4.9		H. Leppig, Asst.
Magdeburg	29.88	759.0	30.08	763.9	54.3	12.4	61	sse.			2		4	ssw.		0.134	3.4		Dr. Assmann.
Memel	30.06	763.4	30.10	764.6	48.7	9.3	82	nw.			4	1 c	0						Isermann.
Munich	28.38	720.9	30.26	768.6	48.4	9.1	65	nw.			6		9	w.		0.004	0.1		Central Station.
Neufahrwasser	30.07	763.8	30.09	764.2	56.5	13.6	42	sw.			3		7	sw.		0	0		A. Lothes.
Neustadt, Palatinate	29.60	751.7	30.12	765.1	49.3	9.6	83	sw.			2		10	sw.		0.488	12.4	raining	Dicknether.
Stuttgart	29.23	742.5	30.14	765.5	50.9	10.5	73	sw.			5		10			0.161	4.1	rainy	Prof. Dr. Schoder.
Wustrow	30.03	762.7	30.05	763.3	49.8	9.9	73	wnw.			3	0	2 s			0	c		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.51	749.5	29.88	759.0	75.0	23.9		s.			2.0		5			0	0	hazy	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.50	749.3	29.55	750.5	96.9	36.1	43	nnw.	20.0	8.9			0			0	0	blue sky	
Deesa	29.05	737.8	29.50	749.2	106.4	41.3	19	sw.	22.0	9.8			3	wsw.		0	0	d. clouds	
Bombay	29.73	755.1	29.76	756.0	86.9	30.5	68	wsw.	10.0	4.5			2		wsw.	0	0	d. clouds	
Poona, Yarrowda	27.89	708.4	29.69	754.2	91.7	33.2	36	sw.	36.0	16.1			8	nw.		0	0	d. clouds	
Trichinopoly	29.46	748.3	29.73	755.2	98.0	36.7	37	ssw.	1.0	0.4			0			0	0	blue sky	
Belgaum	27.26	692.4	29.76	756.0	80.6	27.0	60	e.	10.0	4.5			1	w.		0.06	1.5	d. clouds	
Lahore	28.68	728.4	29.39	746.4	97.2	36.2	14	w.	4.0	1.8			0			0	0	gloomy	
Roorkee	28.49	723.6	29.34	745.1	101.9	38.8	11	calm	2.0	0.9			0			0	0	hazy	
Agra	28.86	733.1	29.39	746.5	108.1	42.3	8	w.	14.0	6.3			0			0	0	blue sky	
Nagpur	28.50	724.0	29.48	748.9	107.2	41.8	16	wsw.	18.0	8.0			0			0	0	blue sky	
Jubbulpore	28.20	716.2	29.48	748.6	105.9	41.1	13	sw.	8.0	3.6			1		w.	0	0	blue sky	
Lucknow	29.05	738.0	29.41	747.0	104.4	40.2	32	wnw.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.09	739.0	29.38	746.4	108.4	42.4	15	nw.	2.0	0.9			0			0	0	blue sky	
Patna	29.26	743.3	29.44	747.8	95.5	35.3	45	ne.	8.9	4.0			0			0	0	blue sky	
Hazaribagh	27.50	698.5	29.42	747.1	98.1	36.7	16	n.	9.9	4.4			0			0	0	hazy	
Cuttack	29.42	747.2	29.50	749.2	88.9	31.6	69	w.	10.0	4.5			0			0	0	blue sky	
Calcutta, Alipore	29.45	748.1	29.47	748.6	89.5	31.9	70	s.	10.0	4.5			4		w.	0	0	d. clouds	
Dhubri	29.43	747.4	29.54	750.4	75.5	24.2	80	ene.	15.2	6.8			9	ssw.		0.89	22.6	d. clouds	
Chittagong	29.58	751.3	29.67	753.6	82.7	28.2	88	sse	11.1	5.0			9			0	0	d. clouds	
Sibsagar	29.33	744.9	29.67	753.6	71.1	21.7	94	ne.	2.0	0.9			8	w.	w.	0.72	18.3	d. clouds	
Jeypore	28.05	712.5	29.42	747.1	103.6	39.8	17	wnw.	20.0	8.9			0			0	0	hazy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.22	716.8			98.5	36.9	36	sw.	4	1.8		5 ck	3			0	0	d. clouds	
Zanzibar			29.98	761.5	84.5	29.2	64	ssw.	6.8	3.0			1			0	0	d. clouds	
ITALIAN.																			
Udine	29.74	755.3	30.13	765.4	63.5	17.5	34	e.	1.3	0.6			5			0.339	8.6		Prof. Giovanni Clodig.
Milan	29.65	753.2	30.16	766.0	64.0	17.8	29	w.	3.8	1.7			2	nw.		0	0		Prof. G.V. Schiapparelli.
Padua	30.05	763.2	30.15	765.9	62.8	17.1	49	sse.	3.8	1.7			2	s.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.28	743.6	30.15	765.9	63.3	17.4	33	w.	3.8	1.7			2	nw.		0	0		Prof. F. F. Denza.
Genoa	30.02	762.5	30.21	767.3	60.4	15.8	69	se.	11.2	5.0			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.24	717.2	30.10	764.5	59.7	15.4	39	nw.			4		0			0	0		Prof. D. O. Bruno.
Pesaro	30.14	765.6	30.19	766.8	57.2	14.0	89	ne.	6.9	3.1			2			0	0		Prof. Luigi Guidi.
Florence	29.93	760.2	30.18	766.6	64.8	18.2	44	w.			2		1			0	0		Prof. Costantino Pittei.
Leghorn	30.09	764.2	30.17	766.4	60.6	15.9	59	w.	6.3	2.8			3			0	0		Prof. P. Monte.
Rome	29.98	761.4	30.15	765.8	66.6	19.2	32	n.	10.5	4.7			1			0	0		Prof. P. Tacchini.
Lecce	29.78	756.5	30.03	762.8	65.5	18.6	31	nnw.	23.7	10.6			2			0	0		Prof. C. de Giorgi.
Cosenza	29.21	741.8	30.07	763.8	67.3	19.6	72	sw.	3.1	1.4			4	w.		0	0		Prof. D. Conti.
Cagliari	30.02	762.6	30.22	767.5	63.3	17.4	41	nw.			4		2	nw.		0	0		Prof. A. Pacinotti.
Palermo	29.94	760.5	30.19	766.8	63.5	17.5	38	n.	15.4	6.9			1			0	0		Prof. G. Cacciatore.
Syracuse	30.00	761.9	30.04	763.0	60.1	15.6	64	nne.	21.7	9.7			8	sw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.61	752.0	30.13	765.2	65.1	18.4	57	w.	4.3	1.9			3	nw.		0	0		Prof. F. Brioschi.
Stelvio	22.21	564.2			27.0	— 2.8	98	sw.			4		10			0	0	covered	Prof. P. F. Denza.
Valdobbia																			Prof. P. F. Denza.
JAPANESE.																			
Akita	30.00	762.1	30.03	763.0	48.3	9.1	85	calm			0		10 ck		sw.	0	0	cloudy	H. Hattori.
Awomori	30.01	762.2	30.05	763.3	43.6	6.4	78	e.	5.2	2.3			10 s			0	0	overcast	K. Ogawa.
Hamamatsu	29.94	760.5	29.97	761.2	61.5	16.4	91	e.			2	2 cs	0	w.		0	0	clear	
Kagoshima	29.97	761.3	29.98	761.6	67.0	19.4	83	n.			2		10 s			2.833	71.9	overcast	G. Miyanohaza.
Kioto	29.79	756.7	29.96	761.1	57.5	14.2	83	ne.	4.0	1.8		10 cs	0	w.		0	0	fair	M. Tojima.
Miazaka	29.97	761.2	30.00	761.9	67.8	19.9	84	ene.			1		10 s		w.	1.957	49.7	covered	K. Masusaki.
Miyako	29.96	760.9	30.07	763.7	44.1	6.7	97	e.	0.2	0.1			10 n			0.457	11.6	raining	N. Honno.
Nagasaki, I. M. Obs'y	29.75	755.6	29.95	760.7	64.4	18.0	92	calm	0	0			10 s			1.110	28.2	misty	S. Takehayashi.
Niigata	29.99	761.7	30.03	762.7	49.0	9.4	93	ne.	1.3	0.5		0	8 ck		n.	0	0	cloudy	M. Morita.
Nobiru	30.02	762.5	30.04	762.9	50.9	10.5	86	n.	4.1	1.8		1 cs	0	w.		0	0	fair	H. Midzushina.
Numazu	29.95	760.7	29.98	761.6	61.8	16.6	92	calm			0		10 ks			0	0	cloudy	R. Kaneda.
Osaka	29.95	760.7	29.96	761.1	62.2	16.8	81	ne.	1.5	0.6		4 cs	6 s			0	0	cloudy	H. Omura.
Tokei Obs'y, Yeddo	29.94	760.5	30.02	762.5	59.5	15.3	86	ese.	7.7	3.4		6cs;ck	4 ks;ck	w.	w.	0	0	overcast	The Staff.
Wakayama	29.90	759.5	29.95	760.8	62.5	16.9	74	n.	2.3	1.0		10 cs	0			0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.93	760.2	30.12	765.0	77.0	25.0	71	ese.	17.0	7.6		0	2 k		se.	0	0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	57.6	14.2	73	ene.	5.1	2.3		4 cs	0	w.		0	0	light haze	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.02	762.5	59.9	15.5	79	sw.	2.0	0.9		9 c	0			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.65	753.0	29.90	759.6	71.5	21.9	90	ne.	0.9	0.4		2 cs	0			0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Rabellon																			M. Y. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Zacatecas																			J. A. Bonilla, M. E.
Sub-series.																			
Altata					70	21.1	94	sw.	6.0	2.7		1 c	4 n	n.	se.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.95	760.7	29.95	760.7	52.9	11.6		sw.			4					0.173	4.4		
Groningen	29.89	759.1	29.94	760.5	51.6	10.9		s.			3					0.055	1.4		
Helder	29.89	759.2	29.89	759.2	49.1	9.5		s.			4					0.035	0.9		
Hellevoetsluis	29.94	760.5	29.94	760.5	50.9	10.5	94	sw.			3					0.311	7.9		
Utrecht	29.93	760.2	29.98	761.4	48.4	9.1	95	sse.			2		10			0.201	5.1	dull	H. van der Brink.
Sub-series.																			
Batavia, Java	29.90	759.5			78.3	25.7	83	nne.	2.0	0.9			5			0	0		Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.60	751.9	29.67	753.5	52.9	11.6	64	ssw.	18	8			4			0	0		
Brono	29.50	749.4	29.54	750.4	44.2	6.8	88	sw.			6		10			0.165	4.2	raining	
Christiania	29.39	746.6	29.54	750.2	59.7	15.4	54	sw.	7	3			8			0	0		
Gjesvær	29.78	756.3	29.80	756.9	34.9	1.6		ene.			4		10					snowing	
Lodingen	29.48	748.9	29.53	750.1	43.0	6.1	75	ne.			4		10			0.189	4.8	raining	
PORTUGUESE.																			
Angra, Azores	29.83	757.6	29.98	761.6	61.2	16.2	71	wnw.	22.4	10.0			4			0.157	4.0		Dr. J. A. Sampaio.
Campo Major	29.24	742.6	30.22	767.5	72.0	22.2	38	ese.	3.8	1.7			3			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.18	766.6	30.27	768.9	64.4	18.0	51	se.	3.8	1.7			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.91	759.8	30.25	768.4	63.3	17.4	49	ene.	5.6	2.5			1			0	0		The Staff.
Ponta Delgada, Azores	29.97	761.3	30.04	763.1	61.2	16.2	91	w.	12.5	5.6			10			0.252	6.4		
Saint Paul de Loando																		raining	
Serra da Estrella	25.49	647.4	30.26	768.5	48.2	9.0	70	ese.	7.4	3.3			3	nw.		0	0		
RUSSIAN.																			
Akmolinski	28.94	735.0	29.99	761.8	62.4	16.9	30	sw.	16	7		0	0			0	0		Major K. Lasarew.
Archangel	29.76	756.0	29.78	756.5	64.8	18.2	63	calm	0	0		0	6 ks			0	0		Capt. Sselilwerstow.
Astrakhan	30.10	764.4	30.00	762.0	65.5	18.6	77	w.	13	6			10 kn			blank	blank		
Baku	30.15	765.7	30.06	763.6	80.2	26.8	27	se.	22	10			0			0	0		Capt. Wisganow.
Barnaul	30.02	762.6	29.98	761.4	66.7	19.3	76	sse.	9	4		0	5 ks			0	0		
Bielosersk	29.48	748.7	29.98	761.4	52.5	11.4	28	sw.	18	8			10			0	0		Meteorological Obs'y
Dorpat	29.44	747.8	29.89	759.2	72.0	22.2	56	w.	4	2		0	6 ks			0	0		
Ekaterinburg	29.78	750.3	30.02	762.5	55.9	13.3	52	wsw.	11	5		0	8 k			0	0		Observatory.
Elissawetgrad	28.84	732.5	29.75	755.7	73.4	23.0	34	w.	18	8		ck	9 n			inap.	inap.		Meteorological Obs'y.
Irkutsk	29.41	746.9	29.84	757.8	78.8	26.0	29	ese.	9	4		0	1 k			0	0		
Kasalinsk	28.25	717.6	29.94	760.5	33.3	0.7	94	nw.					10			blank	blank		
Kasan	29.57	751.1	29.75	755.6	74.1	23.4	30	n.	9	4		0	0						
Kem	29.74	755.4	29.99	761.8	82.6	28.1	28	wsw.	11	5		0	0			0	0		Observatory.
Kertch	29.66	753.3	29.71	754.6	64.9	18.3	55	sw.	13	6		0	8 ks			0	0		
Kieff	29.83	757.6	29.85	758.2	67.5	19.7	67	sse.	4	2		5 ck	0			0	0		Lagorio & Sastyrez.
Kozlov	29.21	742.0	29.82	757.3	73.2	22.9	46	se.	7	3		0	2 ks			inap.	inap.	hazy	Observatory.
Libau	29.54	750.4	30.06	763.4	80.6	27.0	33	ssw.	4	2		0	0			0	0		
Lugan	30.02	762.6	30.05	763.2	47.3	8.5	77	ssw.	16	7			0			0.110	2.8		E. Quass.
Moscow	29.66	753.3	29.83	757.7	81.5	27.5	20	e.	44	20			2			0	0		Meteorological Obs'y.
Nikolaiev	29.53	750.1	29.97	761.3	81.7	27.6	19	sw.	11.2	5.0		0	0			0	0		Meteorological Obs'y
Nikolaievsk-on-the-Amoor	29.78	756.4	29.85	758.3	69.1	20.6	73	se.	4	2		0	0			0	0		Capt. Kurdakow.
Pekin, China	29.86	758.5	29.95	760.7	31.6	— 0.2	94	e.	9	4			10			0	0	foggy	Iwanow.
Petro-Alexandrovsk	29.62	752.4	29.70	756.0	69.1	20.6	32	sw.	3.4	1.5		0	2 ks			0	0		Physical Observatory.
Petrozavodsk	29.74	755.4	30.08	763.9	78.6	25.9	16	n.	5.6	2.5		0	0			0	0		
Pinsk	29.65	753.1	29.84	757.9	66.6	19.2	56	w.	22	10		3 ck	0			0	0		Dr. Bergmann.
Poti	29.56	750.9	30.06	763.6	50.4	10.2	66	nne.	6	3			10 n			0.220	5.6	raining	
St. Petersburg	29.82	757.4	29.85	758.2	63.0	17.2	92	ssw.	4	2		0	5 ks			0	0		
Samarkand	29.96	761.0	29.98	761.6	53.6	12.0	63	nnw.	11	5		ck	8 n			0.024	0.6		Central Physical Obs'y.
Semipalatinsk	27.58	700.6	29.97	761.3	70.3	21.3	26	nw.	3.4	1.5		0	0			0	0		
Sevastopol	29.50	749.2	30.15	765.8	58.5	14.7	52	w.	9	4			2			0	0		Major Lasarew.
	29.63	752.7	29.86	758.4	55.6	13.1	94	nw.	7	3			10 n			0.067	1.7	hvy. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.52	750.2	29.98	761.5	66.2	19.0	54	nw.	18	8		ck	10 n			0.067	1.7	light clouds.	
Tashkend	28.35	720.0	29.97	761.2	69.1	20.6	24	n.	9	4			10 kn			0.110	2.8		Terch, A. M.
Tiflis	28.53	724.7	29.88	759.0	76.3	24.6	38	sse.	2	1		5 c	0			0	0	light clouds	Physical Observatory.
Vernoe	27.55	699.7	30.04	763.0	52.5	11.4	75	s.	2	1			10 n					raining	
Viatka	29.26	743.2	29.86	758.5	77.4	25.2	42	w.	7	3			4			0	0		
Warsaw	29.67	753.6	30.10	764.4	55.8	13.2	46	w.	9	4		0	6 ks			0	0	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.62	752.3	29.91	759.8	33.8	1.0	50	w.	27	12			3			0.012	0.3		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.28	743.7	45	7.2	92	s.			6		10			0.3	8.	raining	J. Youngclause
North Unst			29.50	749.3				s.			4	0	8						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.21	767.3	30.32	770.0	66.2	19.0	50	sw.	5.1	2.3		0	0			0	0	light mist	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.11	764.9	30.17	766.4	78.3	25.7	36	sw.	2.7	1.2		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.30	693.4	30.24	768.1	61.9	16.6	38	sw.	3.6	1.6		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.07	712.9	30.28	769.1	64.4	18.0	40	se.	4.7	2.1		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.17	766.2	30.30	769.5	67.5	19 7	57	ese.	3.8	1.7		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.34	745.3	30.21	767.2	60.8	16.0	67	n.	9.4	4.2		0	0			0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.26	743.3	30.16	766.0	62.1	16.7	68	sw.	11.9	5.3			2			0	0		R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.93	760.2	29.99	761.8	75.7	24.3	87	e.	2.2	1.0		3 ck	0	w.		0.20	5.0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.6	81.5	27.5	78	e.	9.8	4.4		0	4 ks		ne.	0.276	7.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.15	765.9	30.25	768.4	66.7	19.2	48	e.	21.8	9.0		0	1		ese.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.90	759.5	29.99	761.8	77.4	25.2	98	calm	0	0			10 kn		s.	2.000	50.8	overcast	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.57	751.1	29.61	752.1	42.1	5.6	100	s.			2		10			0	0	foggy	
Umea	29.53	750.1	29.58	751.4	42.4	5.8	85	ssw.			4		10			0.047	1.2		
Hernosand	29.47	748.6	29.52	749.9	40.6	4.8	94	calm			0		10			0.197	5.0		
Stockholm	29.47	748.6	29.65	753.1	45.3	7.4	80	ssw.			6		10			0.071	1.8		
Wisby	29.72	754.9	29.78	756.4	51.1	10.6	68	sw.			7		0			0.075	1.9		
Sub-series.																			
Upsala	29.48	748.7	29.56	750.9	44.8	7.1	92	ssw.	17.0	7.6			10		sw.	0.020	0.5	raining	S. G. Fineman.
SWISS.																			
Geneva	28.84	732.6	30.25	768.3	60.6	15.9	37	ssw.			2		8			0.016	0.4	covered	The Observatory.
TURKISH.																			
Constantinople			29.80	756.8	69.8	21.0	61	ese.	6	2.7			0			0	0		The Observatory.
Valona			30.12	765.1	68.5	20.3		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.6	71.4	21.9	65	w.			1		1 k		w.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.65	676.9			56	13.3	86						10 n		sw.			cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.03	762.7	30.11	764.8	52	11.1	48	nw.	3	1.3		3 cs	0			0.02	0.5	clear	J. O. Barnes.
Alpena, Michigan	29.32	744.7	29.98	761.5	34	1.1	78	w.	6	2.7		8 k	0	w.		0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.93	633.2	29.75	755.6	45	7.2	58	ne.	2	0.9		5 k	0	sw.		0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.05	687.1	29.89	759.2	40	4.4	42	e.	12	5.4		5 c	0	se.		0	0	fair	B. O. Lenoir.
Atlanta, Georgia	28.93	734.8	30.10	764.5	57.5	14.2	72	nw.	6	2.7		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.06	763.5	30.07	763.8	52	11.1	72	ne.	14	6.3			10 s			inap.	inap.	cloudy	Jas. M. Watson.
Augusta, Georgia	29.88	758.9	30.07	763.8	66.5	19.2	87	calm	0	0		4 k	0	w.		0.15	3.8	fair	John Henly.
Baltimore, Maryland	30.09	764.3	30.14	765.5	55	12.8	55	n.	2	0.9		4 k	0	s.		0.01	0.3	fair	Geo. W. Felger.
Barnegat City, New Jersey	30.06	763.5	30.08	764.0	51.5	10.8	80	ne.	17	7.6		3 k	0	nw.		0.11	2.8	clear	G. A. Hill.
Behring Id., Behring Sea	29.78	756.4	29.80	756.9	31.7	— 0.2		n.	17	7.6		0	8 n		n.	inap.	inap.	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.66	728.0	30.22	767.6	35.0	1.7	89	se.	1	0.4		3 k	1 s	se.	se.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.07	687.6	29.86	758.4	48	8.9	66	calm	0	0		0	1 s			0	0	clear	S. Wheaton.
Billings, Montana	26.68	677.7	29.86	758.4	47	8.3	71	e.	6	2.7		5 c	0	w.		0	0	fair	T. Gibson.
Bismarck, Dakota	28.44	722.4	30.22	767.6	34	1.1	72	e.	6	2.7		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.04	763.0	30.07	763.8	47	8.3	68	n.	9	4.0		0	8 s			0.07	1.8	cloudy	J. T. Elker.
Boise City, Idaho	26.94	684.3	29.78	756.4	52	11.1	69	w.	2	0.9			10 s			0	0	cloudy	J. Keneely.
Boston, Massachusetts	29.91	759.7	30.07	763.8	49.0	9.4	56	nw.	12	5.4		2 ck	4 s			0.14	3.6	fair	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.03	762.7	72.4	22.4	96	s.	4	1.8		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.29	744.0	30.03	762.7	41.2	5.1	82	sw.	14	6.3		3 ck	5 s	sw.	sw.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota	28.19	716.0	30.17	766.3	38	3.3	64	e.	8	3.6		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.77	756.1	30.06	763.5	45.3	7.4	56	s.	3	1.3		0	0			0	0	clear	D. N. Farnell.
Cairo, Illinois	29.80	756.9	30.20	767.1	55.6	13.1	71	ne.	3	1.3		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.02	762.5	30.04	763.0	60	15.6	70	n.	20	8.9		0	7 ks		w.	0.21	5.3	fair	A. K. Alderson.
Cape May, New Jersey	30.05	763.3	30.08	764.0	55.0	12.8	72	ne.	17	7.6			10 s			0.18	4.6	cloudy	W. E. Smith.
Cape Mendocino, California	29.16	740.7	29.84	757.9	48.5	9.2	100	calm			0		fg.			0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.02	762.5	30.04	763.0	75	23.9	76	n.	2	0.9		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.98	761.5	30.02	762.5	70.0	21.1	84	nw.	4	1.8		0	hz.			0.31	7.9	clear	J. H. Smith.
Charlotte, N. Carolina	29.25	742.9	30.09	764.3	59.0	15.0	87	n.	5	2.2			10 s		ne.	0.18	4.6	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.32	744.7	30.13	765.3	59.0	15.0	57	n.	3	1.3		0	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.06	611.1	29.93	760.2	42.9	6.1	81	sw.	5	2.2		10 cs	0	w.		0.02	0.5	cloudy	E. McGovern.
Chicago, Illinois	29.43	747.5	30.13	765.3	47.9	8.8	71	w.	5	2.2		6 k	0	nw.		0	0	fair	John Laurens.
Chincoteague, Virginia	30.04	763 0	30.06	763.5	54	12.2	86	ne.	23	10.3			10 s		ne.	0.85	21.6	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.53	750.0	30.18	766.6	53.0	11.7	80	sw.	1	0.4		7 ck	0	w.		0	0	fair	L. Dunne.
Cleveland, Ohio	29.34	745 2	30.07	763.8	40.8	8.2	59	s.	5	2.2		3 ck	0	w.		0	0	clear	J. B. Newlin.
Coleman City, Texas	28.22	716.8	30.01	762.2	68	20.0	90	se.	5	2.2		9 cs	0			0	0	cloudy	T. J. Kenan.
Columbus, Ohio	29.27	743.4	30.11	764.8	50	10.0	64	w.	2	0.9			10 s			0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.06	712.7	29.96	761.0	65.8	18.8	90	ne.	2	0.9			10 s			0.41	10.4	cloudy	J. McGlone.
Davenport, Iowa	29.54	750.3	30.18	766.6	48	8.9	77	nw.	4	1.8			10 s		nw.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.18	639.6	29.90	759.4	59	15.0	84	sw.	4	1.8			10 s		sw.	0.48	12.2	cloudy	J. Williams.
Dayton, Washington T'y	27.98	710.7	29.73	755.1	58	14.4	86	e.	6	2.7		10 k	0			0.28	7.1	cloudy	D. Moore.
Deadwood, Dakota	25.39	644.9	29.91	759.7	44	6.7	86	s.	4	1.8		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.08	764.0	30.10	764.5	55	12.8	86	ne.	20	8.9			10 s		ne.	0.44	11.2	cloudy	T. S. Townsend.
Denver, Colorado	24.76	628.9	29.92	760.0	51.0	10.6	74	calm	0	0		3 c	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.34	745.2	30.23	767.8	46	7.8	83	n.	5	2.2			10 n		n.	0.33	8.4	light rain	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.04	763.0	50.0	10.0	77	sw.	11	4.9		0	0			0	0	clear	E. R. Bruce.
Dodge City, Kansas	27.29	693.2	29.84	757.9	60	15.6	72	w.	13	5.8		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.48	748.8	30.18	766.6	45.2	7.3	63	nw.	4	1.8		0	3 ks		nw.	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.45	748.0	30.20	767.1	40	4.4	57	nw.	14	6.3		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.30	744.2	30.10	764.5	77.0	25.0	74	se.	3	1.3		5 cs	2 s			0	0	fair	F. Belford.
Eagle Rock, Idaho	25.06	636.5	29.74	755.4	40	4.4	67	n.	5	2.2			10 s		sw.	0	0	cloudy	H. R. Boynton.
Eastport, Maine	29.92	760.0	29.99	761.7	47.0	8.3	89	n.	6	2.7		5 c	5 s	sw.	n.	0.25	6.3	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.24	691.9	29.94	760.5	53	11.7	44	se.	4	1.8		8 c	0	se.		0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.21	665.7	29.85	758.2	66.0	18.9	51	e.	4	1.8			10 s		e.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.34	745.2	30.06	763.5	49	9.4	56	sw.	2	0.9		4 cs	0	w.		0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.36	745.7	30.02	762.5	38.5	3.6	42	w.	9	4.0		1 cs	1 s	w.	w.	0	0	clear	George Heathcote.
Galveston, Texas	30.05	763.3	30.09	764.3	75	23.9	82	s.	2	0.9		5 cs	2 ks	nw.	s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.40	746.7	30.06	763 5	46.0	7.8	60	nw.	12	5.4		0	0			0.01	0.3	clear	J. E. Mueller.
Grant, Fort, Arizona	25.15	638.8	29.76	755.9	62.9	17.2	43	ne.	4	1.8		0	5 s			0	0	fair	Robert O. Lord.
Hatteras, North Carolina	29.98	761.5	30.00	762.0	66	18.9	90	n.	22	9.8		0	9 k		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.68	652.3	29.85	758.2	46	7.8	56	w.	3	1.3		0	0			0	0	clear	N. C. Smith.
Huron, Dakota	28.88	733.5	30.23	767.8	37.2	2.9	70	e.	3	1.3		2 k	1 s	se.		0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.34	745.2	30.13	765.3	52.7	11.5	55	nw.	3	1.3			10 s		nw.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.02	762.5	30.05	763.3	73.2	22.9	92	s.	3	1.3		3 ck	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.86	733.0	30.01	762.2	64	17.8	58	s.	7	3.1		0	6 s		s.	0	0	fair	D. J. Carr.
Jacksonville Florida	30.01	762.2	30.05	763.3	70	21.1	90	ne.	3	1.3			10 s			0.35	8.9	cloudy	J. W. Smith.

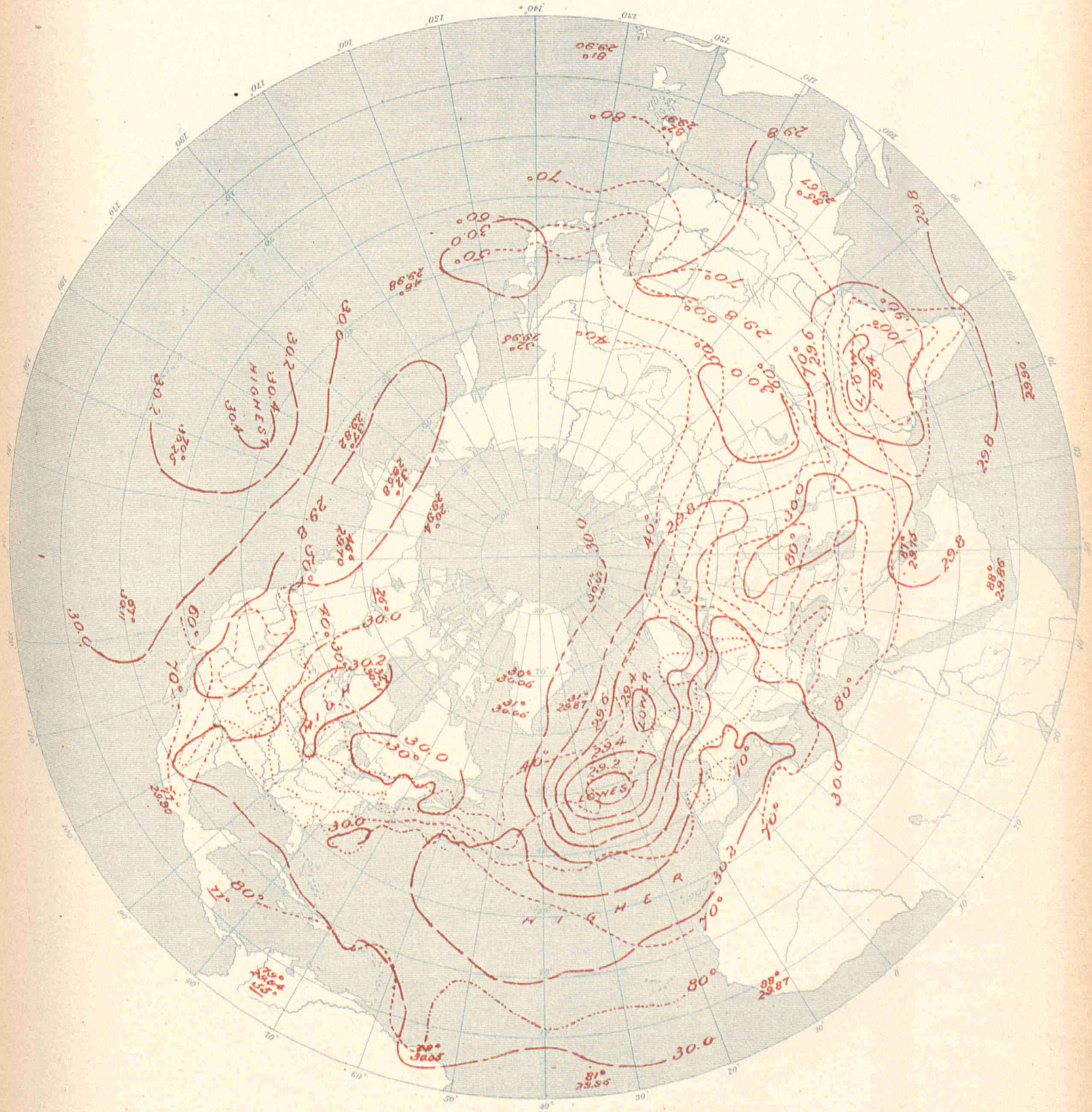
Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
United States.—Cont'd.																			
Keogh, Fort, Montana	27.48	698.0	29.93	760.2	42	5.6	76	e.	12	5.4		8 k	0			0	0	cloudy	W. B. Lamar.
Keokuk, Iowa	29.58	751.3	30.22	767.6	48.0	8.9	86	n.	3	1.3			10 n		n.	0.01	0.3	light rain	F. Z. Gosewisch.
Key West, Florida	29.97	761.2	29.99	761.7	77.5	25.3	86	ne.	8	3.6		3 cs	3 ks	w.	ne.	4.30	109.2	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	57	13.9	86	ne.	16	7.2		0	8 k		ne.	1.38	35.1	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.14	740.1	30.16	766.1	52.8	11.6	81	ne.	4	1.8		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.41	747.0	30.17	766.3	43	6.1	36	nw.	12	5.4		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.25	742.9	30.13	765.3	46	7.8	83	e.	8	3.6			10 n		sw.	0.07	1.8	light rain	A. W. Brown.
Lewiston, Idaho	28.85	732.8	29.69	754.1	57.0	13.9	86	w.	1	0.4		5 k	5 s	sw.		0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.80	756.9	30.12	765.0	55	12.8	86	calm	0	0			fg.			inap.	inap.	dense fog	W. U. Simons.
Los Angeles, California	29.53	750.0	29.93	760.2	53	11.7	96	se.	8	3.6			10 n			0.13	3.3	light rain	T. S. Collins.
Louisville, Kentucky	29.58	751.3	30.13	765.3	54	12.2	74	nw.	4	1.8		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.42	747.3	30.10	764.5	58	14.4	53	nw.	5	2.2		2 ck	3 k	nw.	nw.	0.14	3.6	fair	Lou's Duane.
Mackinaw City, Michigan	29.32	744.7	29.97	761.2	38.0	3.3	53	nw.	16	7.2		5 cs	0	nw.		0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.01	762.2	30.02	762.5	65.0	18.3	93	nw.	11	4.9			10 s		nw.	0.01	0.3	cloudy	William Daly.
Maginnis, Fort, Montana	25.47	646.9	29.88	758.9	40	4.4	50	e.	6	2.7		10 k	0			0	0	cloudy	F. Burke.
Marquette, Michigan	29.29	744.0	30.01	762.2	37	2.8	61	nw.	14	6.3			10 s		nw.	0	0	cloudy	E. H. Thompson.
Memphis, Tennessee	29.80	756.9	30.13	765.3	58	14.4	70	ne.	1	0.4		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.37	746.0	30.11	764.8	44	6.7	68	nw	7	3.1		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana	26.49	672.8	29.79	756.7	48	8.9	58	s.	3	1.3			9 s			0	0	cloudy	J. H. Young.
Mobile, Alabama	30.08	764.0	30.12	765.0	66	18.9	70	n.	7	3.1		4 cs	0	w.		0	0	fair	C. A. Read.
Montgomery, Alabama	29.85	758.2	30.08	764.0	63	17.2	69	nw.	4	1.8		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.29	744.0	30.27	768.8	30	— 1.1	77	n.	8	3.6		0	0			0	0	clear	H. Bessaut.
Mt. Washington, N. H.	23.69	601.7	29.87	758.7	20.0	— 6.7	64	nw.	30	13.4		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.58	751.3	30.15	765.8	55.0	12.8	86	ne.	1	0.4		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.97	761.2	30.09	764.3	47	8.3	48	n.	7	3.1		7 c	0	sw.		0.23	5.8	fair	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.09	764.3	51	10.6	52	n.	2	0.9		8 k	0	n.		0.42	10.7	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.05	763.3	30.10	764.5	70.5	21.4	73	ne.	7	3.1		0	0			0	0	clear	H. C. Smyth.
New York, New York	29.94	760.5	30.12	765.0	51.5	10.8	44	n.	8	3.6		3 cs	0	sw.		inap.	inap.	clear	G. E. Franklin.
Norfolk, Virginia	30.04	763.0	30.07	763.8	64	17.8	78	n.	8	3.6		5 k	0	n.		0.28	7.1	fair	Wm. Davis.
North Platte, Nebraska	27.19	690.6	30.06	763.5	40.6	4.8	80	se.	12	5.4			10 s			0.01	0.3	cloudy	E. F. Brady.
Olympia, Washington T'y	29.72	754.9	29.76	755.9	46.0	7.8	76	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.04	737.6	30.20	767.1	43.8	6.6	86	ne.	10	4.5			10 ks		ne.	0.08	2.0	cloudy	A. Pollak.
Ogglaamie, Alaska	29.92	760.0	29.94	760.5	19.8	— 6.8	100	nne.	12	5.4			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.71	754.6	30.04	763.0	47.5	8.6	59	s.	9	4.0		7 k	0	w.		0	0	fair	J. G. Linsley.
Palestine, Texas	29.56	750.8	30.11	764.8	67.0	19.4	97	se.	6	2.7			fg.			0	0	dense fog	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.10	764.5	68.7	20.4	74	n	8	3.6		2 c	0	w.		0	0	clear	M. McGauran.
Philadelphia, Pa	30.02	762.5	30.12	765.0	54	12.2	74	n.	12	5.4		2 ck	0	w.		0.27	6.9	fair	T. F. Townsend.
Pike's Peak, Colorado	17.89	454.4	29.95	760.7	21	— 6.1	91	sw.	18	8.0		1 k	0			0	0	clear	H. Hall.
Pioche, Nevada	23.84	605.5	29.76	755.9	50.0	10.0	34	s.	8	3.6		2 ck	4 s	sw.	sw.	0	0	fair	F. R. Day.
Pittsburg, Pennsylvania	29.29	744.0	30.09	764.3	46.0	7.8	72	nw.	1	0.4		7 k	0	nw.		0	0	fair	W. A. Reid.
Poplar River, Montana	27.99	710.9	30.11	764.8				ne.			6	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.33	745.0	30.01	762.2	45.0	7.2	68	sw.	12	5.4		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.99	761.7	30.04	763.0	50.0	10.0	58	ne.	7	3.1		0	6 s		sw.	0.12	3.0	fair	W. W. Eichelberger
Portland, Oregon	29.67	753.6	29.74	755.4	53.0	11.7	77	s.	8	3.6		4 k	0	s.		0	0	fair	M. L. Hearne.
Portsmouth, N. O.					68	20.0	78	ne.	21	9.4			10 ks		ne.	0.02	0.5	cloudy	F. P. Chaffee.
Prescott, Arizona	24.62	625.3	29.72	754.9	51.2	10.7	40	s.	9	4.0		1 c	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30 01	762.2	30.04	763.0	48.5	9.2	77	n.	11	4.9			10 s		n.	0.04	1.0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.02	762.5	30.03	762.7	72	22.2	84	ne.	6	2.7		7 ck	0	sw.		inap.	inap.	fair	W. J. Evans.
Red Bluff, California	29.45	748.0	29.80	756.9	57	13.9	86	calm	0	0			10 ks		s.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.37	746.0	30.03	762.7	42	5.6	73	sw.	11	4.9		10 k	hz.	w.		0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.25	742.9	29.80	756.9	52.5	11.4	85	nw.	2	0.9			10 n		nw.	0.01	0.3	light rain	J. J. Nanry.
Sacramento, California	29.77	756.1	29.85	758.2	50.5	10.3	86	se.	6	2.7			10 s			0.08	2.0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.60	751.8	30.19	766.8	48.5	9.2	89	n.	6	2.7		4 ck	2 s	w.		0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.64	752.8	29.68	753.9	32	0.0	100	ne.	6	2.7		0	5 s		ne.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.36	745.7	30.20	767.1	37.0	2.8	61	nw.	8	3.6		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.44	747.8	30.30	769.6	27.5	— 2.5	94	nw.	5	2.2		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah																			J. Craig.
San Antonio, Texas	29.38	745.2	30.08	764.0	71	21.7	84	sw.	3	1.3			10 s			0	0	cloudy	J. H. Davis.
San Diego, California	29.84	757.9	29.91	759.7	55.6	13.1	83	s.	12	5.4			10 s		s.	0.02	0.5	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.07	763.8	30.10	764.5	49.0	9.4	56	nw.	17	7.6		3 k	0	nw.		0.06	1.5	clear	B. A. Blundon.
Sanford, Florida	29.97	761.2			73.5	23.1	83	sw.	3	1.3		0	0			0	0	clear	J. B. Marbury.
San Francisco, California	29.78	756.4	29.84	757.9	52.5	11.4	86	w.	7	3.1		0	2 s		w.	0.03	0.8	clear	N. Gorom.
Santa Fé, New Mexico	23.21	589.5	29.82	757.4	53	11.7	64	se.	7	3.1		7 c	0	s.		0	0	fair	H. U. Jones.
Savannah, Georgia	29.90	761.0	30.05	763.3	72	22.2	76	w.	5	2.2		0	0			0.73	18.5	clear	H. W. Ford.
Shaw, Fort, Montana	26.25	666.7	29.85	758.2	43	6.1	68	w.	6	2.7		6 k	0			0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.89	759.2	30.13	765.3	64.5	18.1	83	se.	5	2.2		4 k	0	s.		0	0	fair	L. A. Welsh.
Sill, Fort, Indian Territory	28.78	731.0	30.00	762.0	59.5	15.3	89	s.	1	0.4		4 c	fg.	sw.		0	0	fair	W. M. Mattingly.
Sitka, Alaska	29.04	752.8	29.70	754.4	46	7.8	83	w.	3	1.3			10 n		w	0.03	0.8	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.62	752.3	30.09	764.3	58.0	14.4	74	e.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.98	761.5	30.02	762.5	63	17.2	90	n.	9	4.0		2 ck	1 k	w.	n.	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.75	704.8	29.80	756.9	55	12.8	100	s.	3	1.3			10 n			0.15	3.8	heavy rain	John F. Hemenway.
Springfield, Illinois	29.52	749.8	30.20	767.1	51	10.6	76	n.	3	1.3			10 s		w.	0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.67	728.2	30.09	764.3	56.5	13.6	80	s.	5	2.2		0	0			0	0	clear	J. H. Bryce.
Starkville, Miss	29.69	754.1	30.16	766.1	57	13.9	80	n.	10	4.5		0	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.40	721.3	30.23	767.8	33	0.6	81	ne.	3	1.3		0	0			0	0	clear	A. Schneider.
Stockton, Fort, Texas	26.99	685.5	30.00	762.0	62	16.7	90	s.	4	1.8		10 k	0	sw.		1.65	41.9	cloudy	A. J. Warren.
Thatcher's Island, Mass	30.02	762.5	30.07	763.8	47.0	8.3	86	n.	12	5.4		5 k	0	w.		0.12	3.0	fair	G. Liebmann.
Thomas, Camp, Arizona	27.09	688.1	29.76	755.9	60	15.6	32	ne.			1		10 ks		nw.	0	0	cloudy	J. T. Fitzgerald.
Toledo, Ohio	29.38	746.2	30.06	763.5	52	11.1	52	w.	8	3.6		3 c	0	w.		0	0	clear	A. Buell.
Tucson, Arizona	27.41	696.2	29.75	755.6	63	17.2	45	s.	4	1.8			9 ks			0	0	cloudy	J. L. Whiteside.
Unalaska, Alaska	29.80	756.9	29.82	757.4	37	2.8	72	s.	2	0.9			10 s			0.08	2.0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					52	11.1	43	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.88	758.9	30.14	765.5	60.1	15.6	70	e.	10	4.5		7 c	0	w.		0	0	fair	James Keneally.
Visalia, California	29.44	747.8	29.81	757.2	56.0	13.3	79	nw.	6	2.7			10 s			0.01	0.3	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.41	620.0	29.89	759.2	39.7	4.3	98	nw.	2	0.9		4k; ck	0			0	0	fair	T. M. Ambler.
Washington, D. C.	30.02	762.5	30.14	765.5	54.9	12.7	53	n.	6	2 7		0	0			inap	inap.	clear	T. B. Harrison.
West Las Animas, Colorado	20.05	661.7	29.90	759.4	45	7.2	76	ne.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.50	749.3	30.10	764.5	47.5	8.6	75	n.	1	0.4		3 c	1 s	w.		0	0	fair	B. F. Hough.
Wilmington, N. Carolina	29.98	761.5	30.03	762.7	64	17.8	90	n.	9	4.0			10 s		ne.	0.01	0.3	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.39	644.9	29.74	755.4	44	6.7	68	sw.	2	0.9			8 s		sw.	0.05	1 3	cloudy	J. Grover.
Yankton, Dakota	28.90	734.0	30.18	766.6	39	3.9	73	s.	7	3.1		0	0			0.20	5.1	clear	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.77	756.1	62.7	17.1	52	nw.	5	2.2		hz.	hz.			0	0	dense haze	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.00	558.8			55.0	12.8	77	n.	1	0.4			10 s		n.	0.10	2.5	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			29.97	761.2			84	calm	0	0		7 cs	0			0.13	3.3	fair	Robrt Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78.5	25.8	84	se.			3	5 ck	5 k	e.		1.050	26.7	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	79	26.1	89	calm			0		10 ks		s.	0.43	10.9	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	98	e.			1		10 ks		e.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos.
Santiago de Cuba, W. I.																			R. Mason.
York Factory, B. A.	29.95	760.7	29.97	761.2	79	26.1	65	ne.	4	1.8		9 c	0			0	0		Forteseque & Wood.
	30.14	765.5	30.21	767.3	31.5	— 0.3	95	w.	8	3 6		2 c	1 s	w.	w.	0	0	fair	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, Malta, Mediterranean	30.15	765.8	67	19.4	55	nnw.			1		9	nnw.						d. clouds.
H. M. S. Dido, Barbadoes, W. I.	30.01	762.2	83	28.3		e.			1		3	w.				1	e.	d. clouds.
H. M. S. Flamingo, N. 30° 50′, W. 68° 28′	30.07	763.8	73	22.8	90	ne.			1		2	ene.				3	ene.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.89	759.2	70	21.1	90	nnw.			1		1							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.25	768.3	62.5	16.9	74	ssw.			4–6		4							squally.
H. M. S. Rocket, N. 38° 32′, W. 28° 38′	30.00	762.0	61	16.1	94	sw.			4		3							squally.
H. M. S. Tyne, Balize, British Honduras	29.95	760.7	74	23.3	90	w.			1		10	w.				1	e.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	29.96	761.0	49	9.4	92	calm			0		10							overcast.
U. S. Navy Yard, Pensacola, Fla.	30.08	764.0	69	20.6	75	nw.	3	1.3			5		nw.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H*	29.98	761.5	48	8.9	85	n	6	2.7			8		n.	0.3	8.			cloudy.
U. S. S. Alliance, Norfolk, Va	30.04	763.0	63	17.2	78	nw.			1		2			h'vy	hv'y			clear.
U. S. S. Colorado, New York, N. Y.	30.14	765.5	51	10.6	93	ne.	8	3.6			2		calm	0	0			fair.
U. S. S. Franklin, Norfolk, Va.	30.04	763.0	62	16.7	72	n.	7	3.1			5		n.	0.045	1.2			fair.
U. S. S. Jamestown, N. 37° 51′, W. 72° 45′	29.89	759.2	62	16.7	83	nne.			6		10					sm'h		cloudy.
U. S. S. Kearsarge, Hampton Roads, Va	30.08	764.0	61	16.1	66	n.			4		5		n.					fair
U. S. S. Lancaster, Copenhagen, Denmark	29.91	759.7	51	10.6	65	w.			5		8		nw.			sm'h		fair.
U. S. S. Michigan, Buffalo, N. Y.	29.98	761.5	42	5.6	100	sw.			2		8		sw.					cloudy.
U. S. S. Minnesota, New York, N. Y.	30.16	766.1	55	12.8	56	nne.			2		2		sw.					clear.
U. S. S. New Hampshire, Newport, R. I.	30.02	762.5	48	8.9	63	n.			4		10		calm			sm'h		cloudy.
U. S. S. Portsmouth, Long Island, N. Y.	30.14	765.5	46	7.8	100	nne.			2		8		ne.			sm'h		cloudy.
U. S. S. Powhatan, N. 11° 16′ W. 75° 52′	29.84	757.9	81	27.2	96	ene.			2		5					long	e.	hazy.
U. S. S. Quinnebaug, N. 4° 20′, W. 80° 03′	29.90	759.4	82	27.8	87	ene.			2		8		ene.			sm'h	ene.	fair.
U. S. S. Saratoga, N. 32° 53′, W. 68° 51′	30.13	765.3	70	21.1	90	sse.			1–2		5?		sse.	0	0	sm'h	sse.	cloudy?
U. S. S. St. Louis, League Island, Pa.	30.10	764.5	53	11.7	54	n.	9.6	4.3			8		sw.	0.45	11.4			fair.
U. S. S. Swatara, Balize, British Hondurast	29.91	759.7	75	23.9	90	w.			3		8		w.	0	0	sm'h		fair.
U. S. S. Tennessee, Fort Monroe Va.	30.07	763.8	63	17.2	94	n.	18	8.0			5		nnw.	spkl	spkl			clearing.
U. S. S. Vandalia, Hampton roads, Va	30.06	763.5	62	16.7	72	n.			3		0							clear.
U. S. S. Wabash, Boston, Mass.	30.06	763.5	58	14.4	53	nnw.	8	3.6			8		nw.	0.07	1.8			cloudy.
U. S. S. Yantic, Hampton Roads, Va.	30.07	763.8	61	16.1	71	n			4		2							fair
Commewyne, N. 38° 15′, W. 43° 57′	30.23	767.8	60.7	15.9	69	nnw.			4		8							d. clouds.
S. S. British Crown, N. 40° 11′, W. 64° 48′ †	30.01	762.2	70	21.1		ssw.			3		1		nw.	4 h'r	4 h'r	sm'h		hazy.
S. S. British Prince, N. 45° 25′, W. 33° 34′			50	10.0		nnw.			6		8		nw.	4 h'r	4 h'r	high	wnw.	cloudy.
S. S. Illinois, N 51° 06′, W. 11° 29′ *	29.36	745.7	53	11.7		se.			4		10					mod.	sw.	overcast.
S. S. Ohio, Liverpool, Eng†	29.70	754.4	57	13.9	75	wsw.			6		3		wsw.	0	0			clear.
S. S. Pennsylvanian, Philadelphia, Pa †	30.17	766.3	56	13.3		n.			4		5		e.					fine.
S. S. Circassian, Montreal, Canada	30.02	762.5	43	6.1	73	wsw.			2		4		wsw.	6 h'r	6 h'r			d. clouds.
S. S. Grecian, Montreal, Canada	30.02	762.5	46	7.8	77	calm			0		1			0	0			clear.
S. S. Nova Scotian, N. 43° 13′, W. 56° 19′	30.16	766.1	49	9.4		sse			3		fg.					sm'h		dense fog.
S. S. Polynesian, N. 48° 27′, W. 61° 44′	30.05	763.3	40	4.4		ene.			3		10		sw.	4 h'r	4 h'r	sm'h		overcast.
S. S. Manitoban, N. 49° 31′, W. 45° 24′	30.09	764.3	48	8.9	85	w.			3		5		nw.	0	0	mod.	w.	hazy.
S. S. Scandinavian, Montreal, Canada*	29.94	760.5	54	12.2		var.								0	0			blue sky.
S. S. Jason, N. 47° 04′, W. 28° 17′			53.6	12.0		nne.			6		6 k					6	n.	raining.
S. S. Alvo, Port Morant, Jamaica, W. I	30.02	762.5	79	26.1		calm			0	5 c	0	calm		0	0			fine.
S. S. Andes, N. 35° 35′, W. 70° 55′			70	21.1		ssw.			2					0	0	mod.	ssw.	fine.
S. S. Alene, N. 16° 03′, W. 76° 28′ †	29.96	761.0	81	27.2		ne.			3		0			0	0	sm'h	ne.	fine.
S. S. Ailsa, Mayagues, Porto Rico, W. I †	29.92	760.0	80	26.7		ne.			2									
S. S. Anchoria, N. 55° 19′, W. 13° 20′ †	29.48	748.8				w.			4		7		w.	4 h'r	4 h'r	mod	n.	cloudy.
S. S. Assyria, N. 40° 23′, W. 39° 49′	30.09	764.3	56	13.3		w.			6		8		w.	0	0	r'gh	w.	clearing.
S. S. Bolivia, N. 52° 02′, W. 26° 29′ *†	29.21	741.9	48	8.9		nne.			4		10		nne.	sh'rs	sh'rs	mod.	e.	overcast.
S. S. Dorian, N 38° 00′, W. 71° 30′	29.97	761.2	64	17.8		sw.			4		10		nw.	2 h'r	2 h'r	sm'h		rainy.
S. S. Devonia, N. 50° 06′, W. 33° 55′*†	29.30	744.2	48	8.9		nnw.			7		5		n.			high	n	rain sq'll.
S. S. Furnessia, N. 50° 24′ W. 21° 26′†	29.12	739.6	54	12.2	92	sw.			6		10		sw.	6 h'r	6 h'r	mod.	ese.	cloudy.
S. S. Elysia, N. 41° 29′, W. 51° 48′	30.20	767.1	53	11.7	93	se.			3		8		ssw.	0	0	sli't	nnw.	cloudy.
S. S. Llandaff City, N. 46° 10′, W. 38° 45′†	29.90	759.4	54	12.2		nnw.			7		6		nnw.	rain	rain	h'vy	nnw.	fair.
S. S. Pavonia, N. 51° 41′, W. 7° 52′	29.58	751.3	55	12.8	87	sse.			3		10		sse.	5 h'r	5 h'r	sm'h		hazy.
S. S. Ville de Marseilles, N. 21° 54′, W. 85° 06′			75	23.9		e.			3		3		ene.	shr's	shr's	sm'h		clear.
S. S. Wisconsin, N. 42° 52′ W. 45° 00′			52	11.1		nw.			3		5		nw.	2 h'r	2 h'r	mod.	w.	fair.
S. S. Wyoming, N. 43° 23′, W. 46° 31′	30.27	768.8	43	6.1		nnw.			4		5		nnw.	0	0	r'gh	nnw.	fair.
S. S. Bohemia, Hamburg, Germany						ssw.			4		6		ssw.	6 h'r	6 h'r			fair.
S. S. Gellert, N. 40° 25′, W. 63° 10′	30.16	766.1	66	18.9	?	s.			3		0			0	0	sm'h	s.	clear.
S. S. Rugia, New York, N. Y	30.12	765.0																
S. S. Silesia, N. 40° 30′, W. 71° 04′	30.20	767.1	51	10.6		nw.			4		5?			0	0	2		cloudy.
S. S. Westphalia, New York, N. Y	30.02	762.5	52	11.1	93	w.			2		7		n.	0	0			fair.
S. S. Wieland, N. 49° 45′, W. 3° 25′	30.01	762.2				wsw.			6		4		wsw.	4 h'r	4 h'r	r'gh	wsw.	stormy.
S. S. City of Paris, N. 47° 24′, W. 24° 09′*	29.03	737.3				sw.			7		8		sw.	10 h'r	10 h'r	h'vy	sw.	squally.
S. S. Colorado, New York, N. Y †	30.10	764.5	55	12.8		n.			3		3		n.	8 h'r	8 h'r			clear.
S. S. Rio Grande, N. 27° 43′, W. 90° 50′ *†	30.04	763.0	78	25.6		e.			1		1		e.	0	0	mod.	e.	clear.
S. S. Chalmette, N. 29° 53′ W. 89° 55′†	30.13	765.3	74	23.3		ne.			3		3		ne.	½ h'r	½ h'r			clear.
S. S. Lone Star, N. 37° 03′, W. 74° 28′†	29.95	760.7	53	11.7		n.			3		10		ne.	2 h'r	2 h'r	small	ssw.	foggy.
S. S. Alleghany, Chesapeake Bay †	30.03	762.7	60	15.6		nne.			5		5		ne.	light	light			fair.
S. S. Archimede, New York Bay, N. Y†	30.11	764.8	70	21.1	66	nne.			3		2		n.	0	0			clear.
S. S. Denmark, N. 44° 32′, W. 34° 34′†	29.53	750.0	61	16.1		nw.			7		5		nw.	24 h'r	24 h'r	r'gh	nw.	squally.
S. S. Egypt, N. 48° 49′, W. 30° 07′*†	29.23	742.4	47	8.3		n.			5		8		n.	5 h'r	5 h'r	long	n.	fair.
S. S. England, New York, N. Y	30.00	762.0	54	12.2		s.			3		10		s.	4 h'r	4 h'r	sm'h		showery.
S. S. Helvetia, N. 40° 37′, W. 63° 48′	30.12	765.0	66	18.9	94	sw.			4		2		sw.	½h'r	½h'r	sm'h	sw.	clear.
S. S. Braunschweig, N. 37° 57′, W. 69° 37′	30.04	763.0	71.5	21.9	71	ssw.			4		9		ssw.	5 h'r	5 h'r	sm'h	ssw.	cloudy.
S. S. Donau, Sandy Hook, N. J						var.			3		fg			1 h'r	1 h'r	sm'h		fair.
S. S. Fulda, N. 49° 15′, W. 17° 24′	29.24	742.7	53	11.7	80	sw.			8		4		wsw.	12 h'r	12 h'r	r'gh	sw.	fair.
S. S. Hohenzollern, N. 49° 15′, W. 14° 29′*	29.47	748.5	54.5	12.5		sw.			6		10		wsw.	24 h'r	24 h'r	cross	wsw.	rainy.
S. S. Hohenstaufen, N. 48° 01′, W. 27° 57′	29.12	739.6				w.			5		7		w.	6 h'r	6 h'r	r'gh	w.	squally.
S. S. Main, N. 41° 04′, W. 55° 37′	30.19	766.8	66.2	19.0		se.			2		6		sse.			sm'h	ne.	fair.
S. S. Neckar, N. 47° 17′, W. 28° 43′	29.31	744.5	49.0	9.4	78	n.			6		10		nnw.	rain	rain	cross	var.	stormy.
S. S. Ohio, N. 45° 02′, W. 28° 51′	29.40	746.7				w.			7		8		var.	6 h'r	6 h'r	h'vy	var.	heavy rain.
S. S. Salier, N. 48° 38′ W. 30° 19′			48	8.9		n.			6		10		nnw.	6 h'r	6 h'r	high	wnw.	cloudy.
S. S. Strassburg, N. 49° 36′, W. 6° 09′	29.93	760.2	59.5	15.3	82	ssw.			5		10		sw.	10 h'r	10 h'r	6	sw.	cloudy.
S. S. Weser, N. 40° 25′, W. 60° 23′	30.21	767.3				sw.			2		0			0	0	sm'h	w.	clear.
S. S. Orinoco. N. 37° 45′, W. 70° 45′ *†	30.20	767.1	72	22.2		sw.			3		6		w.	0	0	light	s.	fair.
S. S. Colon, N. 34° 54′, W. 73° 59′ †	29.98	761.5	61	16.1		s.			3		10			7 h'r	7 h'r	mod.	ssw.	overcast.
S. S. Muriel, St. Kitts, W. I.	29.98	761.5	82	27.8		e.			3		5			light	light	sm'h		fair.
S. S. City of Augusta, New York, N. Y †	30.05	763.3				nnw.			4		4		nw.	0	0			fair.
S. S. Belgenland, Antwerp, Belgium †	29.97	761.2	55	12.8	100	ssw.			4		10		ssw.	20 h'r	20 h'r			raining.
S. S. Nederland, N. 40° 30′, W. 72° 34′			46	7.8	84	nnw.			3		8		nnw.	3 h'r	3 h'r	sm'h		cloudy
S. S. Rhynland, N. 44° 40′, W. 37° 30′	29.68	753.9	52	11.1	93	nnw.			7		5		nnw.	4 h'r	4 h'r	high	nw.	squally.
S. S. Pennland, Antwerp, Belgium	30.05	763.3	52	11.1	100	s.			2		10			10 h'r	10 h'r			raining.
S. S. Waesland, Jersey City, N. J	30.12	765.0	53	11.7		n.			2		3		nw.	0	0			clear.
S. S. Zeeland, N. 40° 00′, W. 54° 35′ *†	30.18	766.6	66	18.9		n.			2				w.	0	0	long	w.	cloudy.
S. S. P. Caland, Rotterdam, Holland	29.93	760.2	53.6	12.0	84	ssw.			3		10							rainy.
S. S. Leerdam, N. 40° 50′ W. 69° 50′	30.04	763.0	50.6	10.3	94	w.			1		10		n.					cloudy.
S. S. Rotterdam, N. 46° 18′, W. 36° 50′	29.69	754.1	54	12.2	84	nnw			6		5		nw.	0	0	7	nw.	fair.
S. S. Schiedam, N. 40° 34′, W. 59° 25′	30.14	765.5	66.4	19.1	91	s.			3		2		sw.	0	0	mod.	sw.	clear.
S. S. W. A. Scholten, New York, N. Y.	30.10	764.5	51.6	10.9	72	nw.			4		3		nw.	0	0			clear.
S. S. Caracas, N. 23° 38′, W. 68° 54′ †	30.12	765.0	79.5	26.4	74	ene.			3		5		ene.	½h'r	½h'r	mod.	ne.	fair.
S. S. Valencia, N. 25° 11′ W. 69° 48′ †	30.22	767.6	78	25.6	82	se.			2		5		se.	0	0	mod.	ese.	hazy.
S. S. State of Florida, N. 45° 42′ W. 41° 49′	30.01	762.2	50	10.0		nnw.			8		9		nw.	0	0	high	w.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. State of Nevada, N. 50° 37′, W. 29° 35′†	29.19	741.4	50	10.0		ne.			6		10		ne.	0	0	mod.	nw.	squally.
S. S. State of Alabama, N. 39° 58′, W. 64° 11′ *	30.03	762.7	65	18.3		s.			4		4		s.	0	0	sm'h	s.	fair.
S. S. Lepanto, N. 45° 10′, W. 7° 46′ *	30.15	765.8	57	13.9		ssw.			3		3		sw.	0	0	sm'h		clear.
S. S. Murenko, N. 48° 58′, W. 25° 06 †	29.07	738.4	55	12.8		sw.			6		5		sw.	1 h'r	1 h'r	rg'h	sw.	rainy.
S. S. Otranto, N. 41° 12′, W. 59° 43′	30.27	768.8	72	22.2		sw.			4		1		wsw.	0	0	sm'h	w.	clear.
S. S. Romano, N. 41° 21′, W. 48° 09′†	30.26	768.6	42	5.6		nne.			3		7		nne.			mod.	n.	fair.
S. S. Oregon, N. 47° 48′, W 60° 31′	29.96	761.0	40	4.4		ese.			2		10					mod.	ese.	rain & fog.
S. S. Daniel Steinmann, N. 40° 44′, W. 57° 30′†	30.26	768.6	69	20.6		se.			3		9		ssw.	0	0	light	se.	cloudy.
S. S. Norman, N. 40° 14′, W. 73° 41′	30.03	762.7				ne.			5		0			0	0	sm'h		clear.
S. S. Saxon, Boston, Mass†	30.07	763.8				nnw.			4		10			0	0			
S. S. Baltic, N. 42° 09′ W. 49° 43′*	30.30	769.6	42	5.6	?	w.			2		10		w.	0	0		nw.	d. clouds.
S. S. Celtic, N. 40° 38′ W. 69° 12′†	30.04	763.0	66	18.9		w.			3		10		w.	6 h'r	6 h'r	sm'h		misty.
S. S. Germanic, N. 51° 14′, W. 14° 37′			54	12.2		sse.			6		9		s	12 h'r	12 h'r	r'gh	sse.	showery.
S. S. Iowa, N. 44° 03′, W. 36° 31′†	29.93	760.2	55	12.8		w.			6		7		w.	6 h'r	6 h'r	high	w.	fair.
S. S. Assyrian Monarch, off Lizard Point, Eng			53	11.7		wsw.			6		3		sw.	0	0	long	sw.	clear.
S. S. Antonio Lopez, N. 23° 17′, W. 59° 51′	30.12	765.0	77	25.0	82	ne.			1		1					sm'h		clear.
Schr. Abbie H Gheen, N. 38° 25′, W. 74° 30′†	30.09	764.3	55	12.8		ne.			6									cloudy.
Bg. Abbie Clifford, N. 17° 50′, W. 66° 52′†	30.02	762.5	78	25.6		ene.			3		9		ene.	1 h'r	1 h'r			cloudy.
Bk. Aquidneck, N. 35° 02′, W. 74° 29′						var.			3		4		s.	2 h'r	2 h'r	light		fair.
Bk. Alpha, N. 39° 55′, W. 55° 30′*†	30.22	767.6	68	20.0		w.			4		3		w.	0	0	sm'h		clear.
Bg. Alcira, N. 15° 57′, W. 68° 18′	29.99	761.7	83	28.3		se.			6		4		ese.	0	0	sm'h	ese.	clear.
Bk. Adelaide, N. 30° 56′, W. 45° 31′ *†	30.37	771.4	75	23 9		ene.			3		1		ene.	0	0	light	ese.	clear.
Schr. Annie R. Lewis, N. 18° 35′, W. 65° 07′†	30.09	764.3	82	27.8		ene.			2		10		e.	3 h'r	3 h'r	long	n.	rainy.
Schr. Arthur Burton, N. 38° 45′, W. 74° 05′ *†	30.06	763.5				ne.			1		10		ne.	0	0	chop	ne	overcast.
Bk. Achille F., N. 22° —′, W. 25° —′†	30.17	766.3	69	20 6	73	ene.			5		3		ene.	0	0	mod.	ne.	clear.
Bg. Annie R. Storer, Salt Cay, W. I†	30.10	764.5				e.			3		5		e.	0	0			fair.
Bgt. Acheah, Kingstown, St. Vincent, W. I†	29.91	759.7	81	27.2		ene.			1		2		ene.	4 h'r	4 h'r			fair.
Bk. Champion, N. 20° 32′, W. 51° 37′			78	25.6	73	e.			4		8		ese.	2 h'r	2 h'r	short	e.	cloudy.
Bkt. C. S. Bushnell, N. 35° 17′, W. 61° 15′	30.24	768.1				se.			2		5			0	0	sm'h	se.	fair.
S. Cornelius, N. 50° 07′, W. 15° 53′†	29.23	742.4	53.4	11.9		sse.			8		10		sw.	12 h'r	12 h'r	long	sw.	raining.
Bk. Childwall, N. 16° 21′, W. 40° 56′			77	25.0		ne.			6		3		var.	0	0	light	ne.	clear
Schr. Clotilde, N. 37° 57′, W. 72° 02′ *†	29.94	760.5	58	14.4		nne.			5		10			8 h'r	8 h'r	cross	var.	drizzling.
S. David Steward, N. 35° 48′, W. 61° 25′						sw.			9		8		sw.	driz.	driz.	mod.	wsw.	overcast.
S. D. J. Foley, N. 37° 31′, W. 75° 02′ *†	30.05	763.3	55	12.8	100	nne.			4		10		nne.	0	0	short	nne.	dense fog.
Bkt. David A. Preston, N. 34° 50′, W. 65° 00′			74	23.3		sse.			7		2		n.	4 h'r	4 h'r	short	sse.	
Schr. Edith R. Seward, N. 18° 25′, W. 76° 58†	30.04	763.0	81	27.2		se.			1		6		e.	0	0	sm'h		fair.
Bk. E. J. Spicer, Liverpool, Eng	29.73	755.1	55	12.8		sw.			6		5		sw.	rain	rain			fair.
U. S. Fish. Com. S. S. Fish Hawk, Glymont, Md†	29.85	758.2				ne.			1		10		wsw.	0	0			dense fog.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.18	766.6	60	15.6	65	ne.			4		3		sw.	0.10	2.5			clear.
S. Festina Lente, N. 49° 16′, W. 64° 08′	30.11	764.8				calm			0					0	0			clear.
Bk. George Davis, N 36° 44′ W. 68° 16′	29.96	761.0	33	0.6		ese.			4		10			6 h'r	6 h'r	sm'h		raining.
Bk. Gronsaver, N. 1° 35′, W. 35° 52′†						se.			6				s.	0	0	high	se.	cloudy.
Bg. Gipsy Queen, N. 34° 00′, W. 75° 50*†	29.86	758.5	80.8	27.1		ene.			5		5		e	1 h'r	1 h'r	mod.	ne.	fair.
Bg. Galeon, N. 20° 49′ W. 90° 33′ †	29.90	759.4				n.			3		10					sm'h		overcast.
S. Hedwig, N. 38° 45′, W. 43° 38′	29.95	760.7	76	24.4		e.			2		0			0	0	sm'h	ne.	blue sky.
Bk. Hattie G. McFarland, Port Royal, S. C*†	30.26	768.6	57.6	14.2	80	nnw.			6		5		nnw.	0	0	4	nw.	fine.
Bk. John H. Pearson, N. 32° 32′, W. 41° 29′	30.00	762.0	70	21.1		nw.			4		2		nw.	0	0			fair.
Schr. Isabel Alberto, Brooklyn, N. Y						wnw.			1				wnw.	0	0	short	var.	clear.
Bk. Cato, N. 39° 02′, W. 10° 42′*†						n.			2		0			0	0			clear.
Bg. John Wesley, Bailey's Mills, Ga*†	30.26	768.6				calm			0		1		nnw.	0	0	sm'h	nnw.	clear.
Schr. Jennie N. Huddell, Baltimore, Md†	29.98	761.5				calm			0		2			6 h'r	6 h'r			clear.
Bkt. Josephine, N. 13° 46′, W. 52° 26′†	30.14	765.5	64	17.8		ne.			1		5		ne.	0	0			fair.
Schr. Leonessa, Baltimore, Md†	29.98	761.5	84	28.9	68	ne.			5		5		ne.	0	0	mod.	ne.	fair.
Bg. L. & W. Armstrong, N. 22° 35′, W. 67° 41′*†	30.13	765.3				ne.			1		2		wsw.	0	0			clear.
Light House Tender, Laurel, St. Joseph Bay, Fla†	30.08	764.0				ne.			2		1		ne.	0	0	mod.	ne.	
Bg. Lillian, N. 17° 30′, W. 57° 45′ †	30.09	764.3	74	23.3		n.			1		1		n.	0	0			clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.99	761.7	81	27.2		ese.			3		3		ese.	0	0	mod.	var.	fair.
S. S. Madrid, Ancona, Italy†	29.96	761.0	78	25.6		calm			0		5			3 h'r	3 h'r			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga†	30.20	767.1	61	16.1	77	nw.			5		0			0	0			clear.
Bkt. Kryolith, N. 58° 40′, W. 47° 11′ *†	30.09	764.3	78	25.6		n.			1		0			3 h'r	3 h'r			clear.
S. Mt. Washington, N. 10° 28′, W. 29° 00′*†	30.20	767.1				nnw.			3		8		n.	0	0	long	e.	cloudy.
Bgt. Myrtle, N. 40° 09′ W. 64° 04′*†	30.07	763.8	83	28.3	71	ene.			4		1		ene.	rain	rain	sharp	ene.	clear.
Bk. Matthias, N. 38° 35′, W. 61° 53′*†	30.18	766.6				sw.			4		2		sw.	0	0	sm'h		fair.
Schr. Maggie Abbott, N. 23° 35′, W. 74° 40′†	30.31	769.9	70	21.1		s.			3		3		ssw.	0	0	sm'h		hazy.
S. S. Mendoza, N. 0° 03′, W. 38° 57′†	29.97	761.2				e.			3		2		e.	0	0	long	ne.	clear.
Schr. Maud Briggs, N. 25° 57′, W. 59° 26′*†	29.95	760.7				e.			2				e.	1 h'r	1 h'r	sm'h	ne.	clear.
Bk. Ottawa, N. 39° 15′, W. 64° 28′*	30.19	766.8				calm			0		4			0	0	sm'h	e.	clear.
S. S. Raleigh, Castle Island, W. I†	30.04	763.0	67	19.4		sw.			4		3		ssw.	0	0	small	sw.	clear.
S. Rudolph, N. 49° 00′, W. 8° 50′	30.08	764.0	80	26.7		ene.			4		5		ene.			mod.	ne.	fair.
Bk. Rebus, N. 48° 13′, W. 18° 34′			57.0	13.9		ssw.			6		10		var.	6 h'r	6 h'r	long	sw.	foggy.
Bg. Rising Sun, N. 36° 15′, W. 71° 40′*†	29.23	742.4	54	12.2		sw.			8		5		w.	4 h'r	4 h'r	r'gh	wsw.	clearing.
Bk. Rosalie Saint John, Antigua, W. I*†	30.02	762.5	72	22.2		ssw.			4		10		ssw.	light	light	long	sw.	rainy.
S. Salisbury, N. 49° 06′, W. 4° 06′*	29.99	761.7				e.			3					½ hr	½ h'r			
Bk. Scud, N. 38° 10′, W. 72° 30′*†	29.95	760.7	55.0	12.8	94	sw.			0		9		sw.	14 h'r	14 h'r	long	sw.	cloudy.
Bk. Southern Belle, Huelva, Portugal †	29.92	760.0	58	14.4		ne.			5		fg.			4 h'r	4 h'r	short	s.	rain & fog.
S. St. Francis, N. 24° 50′ W. 40° 50′†	30.22	767.6				e.			2		0			0	0			clear.
Bk. St. Lawrence, N. 19° 09′, W. 57° 50′*†	30.33	770.4	74	23.3	63	e.			5		3		e.	1 h'r	1 h'r	sm'h	ne.	fair.
S. S. Strathleven, N. 36° 03′, W. 8° 39′	29.95	760.7				ese.			1				ese.	0	0	mod.	e.	clear.
Bkt. Sunlight, Demerara, British Guiana *†	30.24	768.1	68.8	20.4	71	e.			4		0			0	0	3	e.	blue sky.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	30.08	764.0				ene.			5		8		ne.	4 h'r	4 h'r		ne.	fair.
Bk. Tuck Sing, Sandy Hook, N. J*†	29.91	759.7				n			2		1							
S. Usko, N. 39° 30′, W. 59° 27′*	30.11	764.8				nne.			3		0			0	0	sm'h		hazy.
S. Vincenzo Accame, N. 36° 49′, W. 52° 43′†	30.13	765.3	70	21.1		s.			2		1		s.	0	0	mod.	sw.	clear.
Schr. Viola Reppard, Point Lookout, Md†	30.37	771.4	71.6	22		se			3		0			0	0	light	nne.	clear.
Bk. Winifred, N. 20° 07′, W. 58° 45′ *†	30.02	762.5	67	19.4		n			0		2		nne.	0	0			clear.
S. Wm. McGilvery, N. 20° 21′, W. 37° 48′*†	30.10	764.5											se.	0	0		se.	clear.
	30.20	767.1	76	24.4	64	ese.			4		9		se.	0	0	mod.	sse.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay *†	29.78	756.4	57	13.9	97	sw.			3		9					1	sw.	d. clouds.
H. M. S. Boadicea, Cape Town, Cape Colony	30.28	769.1	61	16.1	100	nnw.			1		7							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.58	751.3	57	13.9	94	sw.			2–4		10							overcast.
H. M. S Thetis, S. 29° 38′ W. 39° 03′	30.01	762.2	71	21.7	80	n.			3		1	W.				3	sw.	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.56	750.8	58	14.4	88	wsw.	14	6.3			10		calm	1.43	36.3	sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	29.55	750.6	60	15.6	94	sw.			4		10					mod.	sw.	cloudy.
May Hulse, S. 56° 13′, W. 57° 45′	29.13	739.9	41.5	5.3	87	n.			6		10							raining.
S. Hevelius, Buenas Ayres, LaPlata†	29.72	754.9	59	15.0		sw.			4		7		sw.	2 h'r	2 h'r			fair.
S. Minnie N. Gerow, S. 27° 44′, W. 30° 58′†	30.05	763.3	74	23.3		w.			2		3		ne.	0	0	sm'h	w.	clear.
S. Feramita, S. 39° 18′, W. 40° 42′†	29.84	757.9	58	14.4		var.			1–9		4		wnw.	1 h'r	1 h'r	large	wsw.	fair.
S. Storm King, S. 47° 35′, W. 60° 22′ *†	29.14	740.1				nne.			4		8		nne.	4 h'r	4 h'r	sm'h	nne.	misty.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.79	756.7	61	16.1	94	e.			2		10	ene.						raining.
H. M. S. Champion, N. 13° 22′, E. 100° 34′	29.67	753.6	85	29.4	96	s.			3		4					2	s.	d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Sappho, N. 8° 21′, W. 79° 23′	29.93	760.2	78	25.6	100	calm			0		7	n.						showery.
d. M. S. Flying Fish, N. 37° 09′, E. 126° 05′	29.87	758.7	52	11.1	96	sse.			1		7							misty.
H. M. S. Swiftsure, Esquimalt, V. Id.	29.94	760.5	50	10.0	93	calm			0		6	sse.						d. clouds.
H. M. S. Zephyr, N. 36° 16′ E. 123° 22′	29.92	760.0	55	12.8	81	sw.			2		10							overcast.
H.P.M.S. Tamega, Macao, China	29.90	759.5	78.8	26.0	84	calm			0		10			19 h'r	19 h'r			raining.
U. S. Naval Hospital, Yokohama. Japan	30.04	763.0	61	16.1	91	calm			0		10		e.	0.26	6.6			cloudy.
U. S. S. Adams, Port Simpson, Alaska †	29.72	754.9	48	8.9	78	e.			1		10					sm'h		cloudy.
U. S. S. Monocacy, N. 34° 48′, E. 125° 01′	29.94	760.5	55	12.8	93	n.			1		10		calm			sm'h		misty.
U. S. S. Palos, Hong Kong, China	29.79	756.7	74	23.3	100	ene.			1		10		e.					raining.
U. S. S. Richmond, Hong-Kong, China*	29.79	756.7	76	24.4	100	ne.			1		10		sw.	6.75	171.4			raining.
S. S. Mexico, Mazatlan, Mexico †	29.88	758.9	75	23.9	77	calm			0		0					sm'h		clear.
S. S. Coptic, N. 40° 53′, W. 155° 38′	30.47	773.9	47.5	8.6	70	calm			0		5		w.	0	0	sm'h	w.	fair.
S. S. Oceanic, N. 39° 10′, E. 163° 00′*	29.98	761.5	48	8.9	78	n.			4		9		nw.			3	w.	cloudy.
S. S. City of Chester, Eureka, Cal†	29.91	759.7	53	11.7	93	calm			0		10			0	0			overcast.
S. S. Oregon, Portland, Oregon †	29.80	756.9	54	12.2	93	calm			0		8		sw.					cloudy.
S. S. Ancon, San Francisco, Cal†	29.84	757.9	53	11.7	86	wsw.			2		8		w.					cloudy.
S. S. Dakota, Port Townsend, Wash. Ter †	29.93	760.2	53	11.7	80	se.			1		5		se.	0	0	sm'h		fair.
S. S. G. W. Elder, N. 39° 19′ W. 124° 35′ †	29.86	758.4	53	11.7	86	w.			3		10					mod.	w.	overcast.
S. S. Queen of the Pacific, Columbia river Oregon †	29.76	755.9				ssw.			3		2			0	0			clear.
S. S. Australia, N. 24° 35′, W. 151° 20′			69	20.6	95	e.			5		6		ne.	2 h'r	2 h'r	mod.	ne.	fair.
S. S. City of New York, N. 26° 43′, W. 149° 28′ †	30.25	768.3	70	21.1	80	ne.			5		8		ne.	c	o	sm'h		cloudy.
S. S. City of Pekin, Yokohama, Japan			63	17.2	94	calm			0		0			0	0			clear.
S. E. B. Sutton, N. 21° 30′. W. 124° 30′†	30.11	764.8	67	19.4	89	n.			3		5		n.	0	0	sm'h	n	fair.
S. S. Colima, N. 16° 00′, W. 98° 30′ †	29.90	759.4	77	25.0	100	wnw.			3		6		w.	0	0	mod.		fair.
S. S. Granada, N. 14° 32′, W. 93° 09′†	29.85	758.2	85	29.4	76	ene.			3		8		sw.	¼ h'r	¼ h'r	small	wnw.	cloudy.
S. S. San José, Panama, Panama †	29.84	757.9	79	26.1		nw.			2		5 s		nw.	0	0			fair.
S. Armenia, N. 23° 30′, W. 127° —′*	29.98	761.5	65	18.3	73	n.			3		1			0	0	mod	wnw.	clear.
S. S. Benledi, N. 23° —′, E. 117° 15′*	29.86	758.4	77	25.0	95	ene.			2–3		4			0	0	sm'h		hazy.
Bk. Bore, Macassar, Celebes Id*†	30.24	768.1	86	30.0		ese.			1									
S. Grecian, N. 4° 08′, E. 131° 30′†	29.90	759.4	81	27.2	91	w.			4		10		sw.	4 h'r	4 h'r	mod.	w.	raining.
S. Titan, N. 20° 38′, W. 129° 11′ *†	30.10	764.5	72	22.2	90	n.			5		5		n.	½ hr	½ hr	sm'h	n.	fair.
Bk. Xenia, N. 18° 27′ E. 117° 17′			87	30.6		ene.			2		0			0	0	sm'h		clear.
U. S. S. Ranger, Champerico, Mexico	29.89	759.2	77	25.0	82	ene.			1		2		calm	0	0	sm'h		hazy.
District No. 4—South Pacific.																		
H. M. S. Kingfisher, S. 17° 32′, W. 149° 34′	29.91	759.7	75	23.9		calm			0		2							d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.93	760.2	61	16.1		nne.			1							sm'h		foggy.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	30.00	762.0	64	17.8	89	se.			4		6							squally.
U. S. S. Hartford, S. 7° 08′, W. 149° 59′ *	29.79	756.7	82	27.8	79	ne.			1–3		0			0	0	sm'h		clear.
U. S. S. Iroquois, Valparaiso. Chili	30.04	763.0	60	15.6	94	se.			1		5					long		fair
U. S. S. Lackawanna, S. 42° 10′, W. 130° 18′*	30.38	771.6	56	13.3	75	n.			4		10					sm'h	ne.	cloudy.
U. S. S. Onward. Callao Peru† *	30.07	763.8	64	17.8	89	ene.			1		10							misty.
U. S. S. Pensacola, Callao, Peru*†	29.91	759.7	65	18.3	84	s.	1	0.4			10			0	0			misty.
U. S. S. Wachusetts, Apia, Oceania	29.77	756.1	75	23.9	100	se.			1		2		se.			sm'h		clear.
S. S. City of Sydney, Sydney, N. S. W *†..	30.26	768.6	64	17.9	78	se.			2		8			0	0			cloudy.
S. S. Zealandia, Sydney, N S. W	30.23	767.8	58	14.4	94	se.			4		10							dull.
S. David Crocket, S. 37° 58′, W. 94° 57′*	30.38	771.6	53.5	11.9	83	se.			4		8		sse.	3 h'r	3 h'r	long	se.	gloomy.
H. M. S. Lark, S. 26° 38′, E. 153° 34′	29.99	761.7	70.3	21.3	100	ese.			5		9					4	se.	misty.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.76	755.9	88	31.1		calm			0		4							d. clouds
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.72	754.9	84	28.9	87	sw.			2		3							d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.99	761.7	77	25.0	95	sse.			1		1	sse.				2	sse.	blue sky
S. S. Tourmaline, Ras Madruka, Arabia	29.79	756.7				sw.			5		2					2	sw.	d. clouds.
H. M S. Woodlark, Bushire, Persia	29.65	753.1	87	30.6	69	w.			2–3		3	w.						misty.
U. S. S. Enterprise, S. 34° 30′. E. 21° 00′*	30.20	767.1	64	17.8	73	w.			4		2		w.			long	sw.	clear.
U. S. S. Juniata, N. 25° 01′, E. 59° 02′	29.67	753.6	87	30.6	92	nnw.			2		1			0	0	sm'h		clear.
S. S. Salerno, Suez Canal, Egypt†	29.90	759.4	79	26.1										0	0	sm'h		clear.
Bk Alpheus Marshall, S. 34° 35′, E. 26° 39′ *†	30.08	764.0				w			6		1		wnw.	0	0	str'g	s.	clear.
S. Annie M Law, S. 20° 53′, E. 75° 00′ *†	30.06	763.5	76	24.4		sw.			1		0			0	0	long	sw.	clear.
S. S. Burswell, N. 18° 41′, E. 39° 45′*†	29.88	758.9	90	32.2		nnw.			3		0			0	0	sli't	nnw.	clear.
Bk. Ceylon, S. 28° 23′, E. 44° 43′*†	30.23	767.8	78	25.6	82	s.			4		0			0	0	mod.	se.	clear.
S. Dynomene, S. 36° 36′, E. 27° 20′	29.89	759.2	66	18.9	89	wnw.			9		7			hv'y	hv'y	high	wsw.	showery.
S. S. Malabar. N. 9° 07′, E. 69° 37′						w.			3		5		sw.	0	0	mod.	sw.	fair.
Bk. Pilgrim, Batavia, Java, Oceania *†	29.90	759.4				se.			2		5		se.	0	0			fair.
S. S. Radnorshire, N. 7° 54′, E. 74° 24′ *†	29.81	757.2				w.			4		4		w.	2 h'r	2 h'r	h'vy	var.	fair.
S. St. David, S. 27° 09′, E. 97° 33′ *†	30.19	766.8	67.3	19.6	84	e.			4		7		ese.	0	0	long	var.	fair.
S. S. Foscolia, N. 4° 29′, E. 68° 22′ †	29.90	759.4				var.			3		10		var.	10 h'r	10 h'r	high	var.	threatening

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 13, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.21	767.3	61.5	16.4	77	w.			1		4			0.020	0.5	cloudy	Malaterre.
Algiers			30.17	766.2	64.0	17.8	74	nne.			4		6			inap.	inap.	cloudy	Thève.
La Galle			30.21	767.2	61.9	16.6	68	nne.			5		2			0	0	fair	Fonfréder
Tunis			30.22	767.6															Jacques.
Saida			30.16	766.1															Pérès.
Tebessa			30.13	765.4	75.2	24.0	14	n.			1		0			0	0	clear	St. Martin.
Geriville					57.2	14.0	51	ssw.			5		4			inap.	inap.	cloudy	Forfert.
Laghouat			30.02	762.6	73.0	22.8	38	se.			2		2			0	0	fair	Abraham.
Biskra			30.10	764.6	66.9	19.4	66	calm			0		5			0	0	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			30.12	765.0	54.7	12.6	78	se.	4	1.8		1 c				0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.05	763.3	30.14	765.5	49.0	9.4	97	sw.	5	2.2			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.61	752.0	30.15	765.8	64.4	18.0	32	ne.			4		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.5	30.19	766.9	59.5	15.3	76	nnw.	4.9	2.2			1			0	0		Dr. Wierzbiski
Eperies	29.23	742.4	30.10	764.5	61.5	16.4	35	n.			4	cs	5 s		s.	0	0		Julius Mikolik.
Gratz	28.93	734.9	30.17	766.4	61.3	16.3	42	nw.			3		5			0	0		Andreas Rospini.
Hermannstadt	28.56	725.5	30.01	762.2	50.7	10.4	85	nw.			1		10			0.075	1.9		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.90	734.1	30.26	768.6	51.3	10.7	90	wsw.			1		10			0.031	0.8		The Staff.
Lemberg	29.10	739.1	30.08	764.0	58.8	14.9	49	ne.			6		4			0	0		Dr. T. Stanecki.
Neu Sohmecks	26.74	679.1	30.06	763.4	58.3	14.6	39	calm			0		0			0	0		Dr. V. von Szontagh.
Pola	29.99	761.8	30.08	763.9	64.8	18.2	61	nw.			2		4			0	0		I. R. Hydrographic Office.
Szathmar	29.51	749.5	29.97	761.1	64.2	17.9		n.			3		3			0	0		Joseph Midlinszky, S. J.
Szegedin	29.73	755.2	30.01	762.2	61.9	16.6	48	n.			5		10			0	0		Karl Stancel.
Trieste	30.08	763.9	30.17	766.4	64.4	18.0	49	w.			1		6			0	0		Royal Academy.
Vienna	29.51	749.5	30.22	767.6	61.3	16.3	39	nw.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.50	749.3	29.60	751.8	52.3	11.3	78	sse.	16	7.2			9			0	0	overcast	W. Boswell.
Armagh, Observatory	29.28	743 7	29.50	749.3	59.7	15.4	59	ssw.	27	12.1								squally	S. Call.
Bidston, Liverpool Obs'y			29.75	755.6	58.2	14.6	77	ssw.	25	11.2			10					overcast	John Hartnup.
Bolton, Sharples	29.24	742.7	29.77	756.1	55.0	12.8	81	s.	21	9.4			10					gloomy	Thomas Mackereth.
Bradford, Yorkshire																0.01	0.3		McLandsborough & Preston.
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	80.0	26.7	91	ne.			2		8					d. clouds	Corpl. W. I. Cull, A.H.C.
Cardington	29.82	757.4	29.92	760.0	66.0	19.2	47	sw.			6.0		1					blue sky	John McLaren.
Chatham, School M. E.	29.88	758.9	30.01	762.2	64.9	18.9	59	sw.			3		2					misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.65	753.1	29.88	758.9	52 7	11.5	91	s.			4		10					raining	The Staff.
Fort Napier, Natal	27.86	707.6	30.08	764.0	71.5	21.9	56	e.			1							blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	82.0	27.8	79	s.			2		2						Sergt. C. E. Keane.
Galway, Queen's College	29.38	746.2	29.41	747.0	58	14.4	58	s.			6		5			0.09	2.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.11	764.8	30.14	765.5	64.2	17.9	92	e.			2		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.28	743.7	29.49	749.0	57.5	14.2	67	s.			6		7					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.81	757.2	29.98	761.5	65.3	18.5	61	ssw.			5		3					d. clouds	The Staff.
Guernsey	29.68	753.9	29.98	761.5	62.0	16.7	97	sse.			1		1					blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.94	760.5	29.98	761.5	63.1	17.3	56	sw.	29	12.5			1					blue sky	The Staff.
Leicester, Museum	29.64	752.8	29.89	759.2	61.8	16.6	62	sw.			2		9					overcast	J. O. Smith.
Malta, Mediterranean	30.02	762.5	30.10	764.5	64.8	18.2	76	ne.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.00	762.0	30.05	763.3	78.0	25.6	78	ne'			1		4			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.39	746.5	29.91	759.7	59.5	15.3	71	s.			5		10					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.70	754.4	29.92	760.0	63.6	17.6	47	ssw.			6		1					blue sky	The Staff.
Plymouth	29.83	757.7	29.91	759.7	53.0	11.7	90	sw.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.36	745.7	29.46	748.3	52	11.1	85						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.64	752.8	29.70	754.4	62.0	16.7	86	nne.			2		10					gloomy	W. H. Lyne.
Sheffield	29.54	750.3	29.81	757.2	62.5	16.9	77	s.			3		6			0.02	0.5	d. clouds	W. F. Cooper.
Silloth Rectory	29.65	753.1	29.68	753.9	55.5	13.1	81	ssw.			0		10			0.015	0.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.78	756.4	55.5	13.1	84	ssw.	21	9.4			10					raining	W. C. Carlisle.
Truro, Royal Institution	29.84	757.9	29.90	759.4	56	13.3	87	sw.			7		10					raining	W. Newcombe.
Valencia, Observatory	29.49	749.0	29.51	749.5	54.6	12.6	68	s.	54	24.2			6					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.66	753.4	30.06	763.5	64.4	18.0	44	w.	3.1	1.4						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.73	755.1	29.77	756.1	44	6.7	93	calm	0	0			10 s		calm	0	0	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.75	755.6	29.81	757.2	40	4.4	96	e.	2	0.9			fg.			0	0	light fog	G. A. Blair.
Cornwall, Ontario	29.77	756.1	29.97	761.2	39.4	4.1	69	nw.			1					0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.70	755.9	29.81	757.2	37.0	2.8		e.			1		10 n					raining	H. A. Johnson.
Father Point, Quebec*	29.72	754.9	29.74	755.4	38	3.3	82	w.	25	11.2		5 k	5 s		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.29	744.0	30.16	766.1	32	0.0	88	e.	2	0.9		7 k	0			0	0	clear	James Stewart.
Fredericton, N. B.	29.74	755.4	29.81	757.2	49.1	9.5	72	w.	5	2.2		0	0		w.	0	0	d. clouds	Prof. Harrison, L. L. D.
Granton, Ontario	29.07	738.1	30.21	767.3	35.0	1.7	100	n.	2	0.9		9 cs	0		n.	0	0	cloudy	Jas. Grant.
Halifax, N. S*	29.65	753.1	29.78	756.4	45	7.2	100	nw.	1	0.4		10 k	0		w.	0.452	11.6	cloudy	A. Allison.
Hamilton, Ontario	29.72	754.9	30.11	764.8	43.1	6.2	81	sw.			2	6 ck	0		w.	0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29 71	754.6	30.05	763.3	39	3.9	70	nw.	5	2.2		5 cs	0		w.	0.01	0.3	fair	A. P. Knight, M. A
Little Glace Bay, N. S.	29.69	754.1	29.73	755.1	37.8	3.2	93	calm			0		fg.			0.250	6.3	foggy	C. H. Rigby.
Montreal, Quebec*	29.75	755.6	29.96	761.0	42	5.6	65	w.	18	8.0		0	0			inap.	inap.	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.76	755.9	30.01	762.2	38.4	3.6	75	nw.			1	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.38	746.2	30.10	764.5	37	2.8	72	w.	9	4.0		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.33	745.0	30.07	763.8	43.7	6.5	51	nw.			1	6 k	0			0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.47	748.5	30.18	766.6	36	2.2	80	w.	5	2.2		10 cs	0		nw.	0.03	0.8	fair	H Morgan.
Port Stanley, Ontario	29.52	749.8	30.19	766.8	37	2.8	72	w.	6	2.7			10 n		w.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.50	749.3	29.86	758 4	39	3.9	76	s.	8	3.6			10 k		w.	0.07	1.8	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.56	750.8	30.03	762.7	39	3.9	65	nw.	6	2.7		0	8 ks		nw.	0	0	fair	W. H. McIntyre.
St. Andrews, N. B.	29.75	755.6	29.81	757.2	39	3.9	95	calm	0	0		0	hz.			0	0	clear	
St. John, N. B	29.71	754.6	29.78	756.4	43.0	6.1	91	sw.	3	1.3			fg			0.050	1.3	foggy	G. Murdock, C. E.
Saint John's, N. F.	29.75	755.6	29.80	756.9	51	10.6	86	sw.			2	0	0			0.34	8.6	clear	J. Higgins.
St. Pierre, N. F.			29.88	758.9	41.0	5.0		sw.			4					0.48	12.2		The Commandant
Saugeen, Ontario*	29.41	747.0	30.15	765.8	36	2.2	89	nw.	10	4.5		10 ks				0	0	cloudy	
Stratford, Ontario	28.88	733.5	30.19	766.8	41.0	5.0	56	nw.	10	4.5		3 ck	0		nw.	0	0	blue sky	C. J. Macgregor, M A
Sydney, C. B*	29.74	755.4	29.80	756.9	37	2.8	100	n.	3	1.3			10 n			0.23	5.8	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.75	755.6	30.15	765.8	38	3.3	70	nw.	17	7.6		0	2 s		w.	0	0	clear	Magnetic Observatory.
Windsor, N. S	29.66	753.4	29.76	755.9	50.0	10.0	93	se.	4	1.8			10 ks			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.11	739.4	30.20	767.1	40.1	4.5	59	w.	10	4.5		5 k	0		nw.	0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.67	753.6	29.74	755.4	41	5.0	96	nw.	2	0.9			fg			0	0	foggy	Lt. F. E. Wilmot, R. N.
London, Ontario	29.26	743.2	30.20	767.1	36.8	2.7	74	n.			1		10 n			0	0	overcast	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.20	767.1	30.23	767.8	66.0	18.9	88	wsw.	12.1	5.4		2 c	0			0	0	light haze	John Duthie.
Springbok Fontein	27.91	768.9			73	22.8	72	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.23	640.9																	A. Guelpy.
Tchang-kia-tchouang	29.65	753.0	29.76	755.8	76.3	24.6	52	sw.			5		10			0	0		R. P. Désurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.95	760.8	29.98	761.4	58.1	14.5	90	ese.	4.5	2.0		10 ck	fg	w.		0.740	18.8	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.03	762.8	30.08	764.0	55.6	13.1	87	ssw.	13	6			10						
Fanoe	30.02	762.6	30.04	763.1	53.1	11.7	89	sw.			4		10						Oversergent Fischer.
Godthaab, Greenland	30.07	763.7	30.11	764.8	32.4	0.2	100	s.			4		10						Overloerer Lauridsen.
Jacobshavn, Greenland	30.02	762.6	30.07	763.8	34.9	1.6		w.			2		2					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.70	754.4	29.74	755.5	33.4	0.8	83	ne.			8		0						
Thorshavn	29.28	743.7	29.30	744.3	48.2	9.0	88	ssw.	13	6			7						A. O. Thorlacius.
Vestervig	29.88	758.9	29.97	761.2	50.7	10.4	92	sw.			6		10						Overloerer Bergh.
EGYPTIAN.																			Loerer Oesterbol.
Cairo	29.61	752.2			87.1	30.6		ene.	3.1	1.4		8 c	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.76	755.8	30.40	772.1	69.4	20.8	72	calm			0	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.58	751.3	30.13	765.3	60.8	16	73	sw.			1	0	5 ka		ne.	0	0	cloudy	M. Nicot, Director.
Arras, Engineer School	29.84	758.0	30.10	764.4	68.0	20.0	55	e.			2	0	0			0	0	clear	M. Fénéon, Command't.
Avignon, Normal School	30.06	763.6	30.14	765.6	70.9	21.6	55	se.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.58	751.3	30.12	765.1	70.3	21.3	41	sse.			1	0	0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.86	758.5	30.13	765.2	64.6	18.1	55	sse.			1		0			0.047	1.2	clear	M. Frère Eugène Marie.
Besançon, Normal School	29.18	741.1	30.05	763.2	73.9	23.3	31	ne.			2	0	0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.78	756.5	30.04	763.0	72.0	22.2	42	ese.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.52	749.9	30.06	763.4	73.4	23	37	ssw.			2		1		ssw.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.78	756.5	30.02	762.6	61.5	16.4	71	s.			3		9		s.	0	0		M. de Kermarée, Dir.
Caen, Normal School	29.95	760.8	30.02	762.6	70.9	21.6	17	sse.			4		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.79	756.6	30.10	764.6	69.1	20.6	56	sse.			1		0			0.319	8.1	clear	M. Jadot, Director.
Charleville, Normal School	29.63	752.6	30.13	765.3	66.2	19	49	ssw.			1		0			0.43	11.	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.74	730.1	30.04	763.0	77.0	25.0	42	s.			1		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.30	744.2	30.13	765.4	73.4	23	50	n.			1		1		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.30	744.3	30.15	765.8	65.1	18.4	54	sw.			1		0			0	0		Dr. Coulet, Director.
Gap, Normal School	27.59	700.7	30.04	763.0	72.5	22.5	41	calm			0		0			0	0		M. Jeangirard, Director.
Grénoble, du Rhone	29.18	741.1	30.28	769.2	71.1	21.7	33	s.			2		1		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.34	745.2	30.11	764.7	69.4	20.8	59	ese.			1		0			0	0		M. Ablard, Director.
Guéret, Normal School	28.47	723.1	30.04	762.9	70.7	21.5	49	sw.			1		0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.85	758.3	30.12	765.1	69.4	20.8	46	se.			4		1		se.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.42	747.3	29.97	761.2	76.3	24.6	31	ne.			1	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.92	759.9	30.02	762.5	62.6	17.0	70	sw.			2		2	calm	sw.	0.157	4.0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.07	738.4	30.10	764.5	71.2	21.8	42	ne.			1	0				0	0	clear	M. André, Director.
Mans, Normal School	29.78	756.3	30.09	764.2	68.5	20.3	52	s.			1		2		sw.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.87	758.7	30.14	765.5	69.3	20.7	48	s.			2		0			0	0		M. Stephan, Director.
Montlouis	24.92	633.0	29.76	756.0	56.3	13.5	52	e.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.98	761.4	30.10	764.5	68.7	20.4	69	se.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.40	746.7	30.16	766.1	69.1	20.6	51	ene.			1		k			0.087	2.2		M. Hasse, Director.
Nantes, Observatory	29.91	759.6	30.07	763.7	75.2	24.0	36	ssw.			1–2	c	1 k			0	0		M. Larocque, Director.
Perpignan, Observatory	30.00	762.1	30.11	764.9	68.7	20.4	44	n.	9.4	4.2			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.33	541.8			38.1	3.4		s.			1		1		s.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.04	737.5	30.07	763.7	71.6	22	42	s.			1	0	0			0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.30	642.6			49.3	9.6	70	sse.			3	0	0			0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.03	762.8	30.06	763.6	75.9	24.4	41	se.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.83	757.7	30.04	763.0	73.8	23.2	36	s.			3		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.93	709.5	30.04	763.0	65.1	18.4	47	calm			0	0	0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.04	763.1	30.09	764.3	68.7	20.4	62	se.			2		0			0.012	0.3	clear	M. Mouillot, Dir.
Saint Maur, Observatory	29.97	761.2	30.13	765.3	69.4	20.8	42	se.			1		0			0.024	0.6		M. Renou, Director.
Toulouse, Observatory	29.43	747.6	30.16	766.0	74.3	23.5	58	se.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.89	759.1	30.06	763.6	71.6	22.0	43	e.			1		2	wsw.	wsw.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.63	752.6	30.12	765.1	69.1	20.6	46	sw.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.92	759.9	30.07	763.7	77.4	25.2	34	sw.	9.8	4.4		1 c	0	w.		0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.80	731.5	30.24	768.2	59.0	15.0	70	s.			2		9	s.		0.327	8.3		Prof. Jnedt.
Bamberg	29.34	745.3	30.19	766.8	63.1	17.3	52	calm			0	0	5 ks			0.248	6.3		Prof. Dr. Hoh.
Berlin	30.05	763.3	30.20	767.0	57.9	14.4	81	sw.			2		10			0	0		Meteorological Institute.
Breslau	29.74	755.4	30.28	769.0	58.6	14.8	40	sse.			1		0			0.071	1.8		Royal University Obs'y
Carlsruhe	29.74	755.4	30.19	766.9	66.0	18.9	61	ne.			1		3	sw.		0	0		Albert Senz.
Cassel	29.41	747.0	30.12	765.1	67.6	19.8	57	sw.			2		2	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.18	766.5	67.5	19.7	64	sw.			1		5			0.193	4.9		Physical Society.
Friedrichshafen	28.80	731.6	30.21	767.3	61.2	16.2	76	ssw.			1		2	e.		0	0		Wilhelm, Chief Tel.
Hamburg	30.06	763.5	30.15	765.8	57.7	14.3	72	wsw.			4		10			0.067	1.7		E. Preller.
Kiel	30.08	764.1	30.10	764.5	57.4	14.1	77	sw.			3		10			0.016	0.4		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.78	756.5	30.20	767.1	62.2	16.8	68	s.			1		9	w.		0	0		H. Leppig, Asst.
Magdeburg	29.98	761.4	30.17	766.4	62.4	16.9	75	sw.			1		8	sw.		0	0		Dr. Assmann.
Memel	30.20	767.0	30.24	768.2	54.7	12.6	62	wsw.			3	1 c	0						Issermann.
Munich	28.43	722.1	30.31	769.9	55.6	13.1	78	sw.			1		10	s.		0.189	4.8		Central Station.
Neufahrwasser	30.23	767.8	30.24	768.2	65.1	18.4	26	sw.			4		1			0	0		A. Lothes.
Neustadt, Palatinate	29.62	752.4	30.15	765.8	65.8	18.8	65	s.			1		9			0	0		Dicknether.
Stuttgart	29.26	743.2	30.14	765.5	64.8	18.2	64	sw.			1		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.16	766.1	30.19	766.7	55.2	12.9	89	wnw.			3		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.38	746.3	29.76	756.0	67.1	19.5		n.			1.5		9					raining	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.51	749.6	29.56	750.8	89.6	32.0	64	wsw.	28.0	12.5			0			0	0	blue sky	
Deesa	29.05	737.9	29.50	749.2	107.0	41.7	10	wsw.	17.0	7.6			0			0	0	blue sky	
Bombay	29.72	754.8	29.76	755.8	86.6	30.3	72	sw.	9.0	4.0			5	ssw.	sw.	0	0	d. clouds	
Poona, Yarrowda	27.88	708.0	29.67	753.7	92.8	33.8	34	ssw.	10.0	4.5			2			0	0	d. clouds	
Trichinopoly	29.46	748.3	29.73	755.2	93.8	34.3	41	wnw.	1.0	0.4			8	nne.	ene.	0	0	d. clouds	
Belgaum	27.22	691.4	29.72	754.8	82.8	28.2	61	e.	11.0	4.9			0			0.01	0.3	blue sky	
Lahore	28.74	730.1	29.45	747.9	103.2	39.6	12	sw.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.58	725.9	29.43	747.4	102.1	38.9	8	nw.	4.0	1.8			0			0	0		
Agra	28.93	734.7	29.46	748.2	107.1	41.7	9	nw.	10.0	4.5			0			0	0	blue sky	
Nagpur	28.52	724.3	29.50	749.3	106.7	41.5	15	sw.	12.0	5.4			0			0	0	blue sky	
Jubbulpore	28.22	716.9	29.51	749.5	104.7	40.4	13	w.	6.0	2.7			0			0	0	blue sky	
Lucknow	29.07	738.4	29.43	747.6	99.0	37.2	33	wnw.	9.0	4.0			0			0	0	hazy	
Allahabad	29.13	739.9	29.42	747.4	107.2	41.8	13	w.	6.0	2.7			0			0	0	blue sky	
Patna	29.28	743.7	29.46	748.2	99.5	35.8	45	ne.	7.9	3.5			0			0	0	blue sky	
Hazaribagh	27.52	699.1	29.43	747.6	99.1	37.3	17	nnw.	8.0	3.6			3			0	0	d. clouds	
Cuttack	29.42	747.2	29.50	749.2	89.9	32.2	65	wnw.					0			0	0	blue sky	
Calcutta, Allpore	29.45	748.0	29.47	748.6	89.2	31.8	73	s.	10.0	4.5			2			0	0	d. clouds	
Dhubri	29.44	747.9	29.56	750.9	73.7	23.2	85	e.	15.0	6.7			10			0.27	6.9	overcast	
Chittagong	29.02	752.2	29.70	754.5	75.6	24.2	68	ene.	13.5	6.0			10			0.40	10.2		
Sibsagar	29.33	744.9	29.66	753.5	73.5	23.1	88	ne.	2.0	0.9			10	w.	w.	0.30	7.6	overcast	
Jeypore	28.69	713.5	29.46	748.2	104.9	40.6	19	w.	17.6	7.9			0			0	0	hazy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.20	716.3	.....	.....	87.0	30.6	40	w.	4	1.8	.....	4 ck	5	.....	.....	0.08	2.0	gloomy	
Zanzibar	.....	.....	29.93	760.2	85.8	29.9	61	ssw.	7.7	3.4	.....	.....	4	s.	e.	0	0	d. clouds	
ITALIAN.																			
Udine	29.77	756.5	30.17	766.3	66.2	19.0	42	sw.	0.7	0.3	.....	.....	8	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.63	752.5	30.13	765.3	69.3	20.7	43	se.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. G. V. Schiapparelli.
Padua	30.06	763.5	30.17	766.2	65.8	18.8	30	ese.	6.9	3.1	.....	.....	2	sw.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.1	30.10	764.4	68.2	20.1	56	s.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.99	761.8	30.18	766.6	61.2	16.2	64	sw.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. D. C. Bruno.
Pesaro	30.12	765.1	30.17	766.3	67.9	19.6	68	ne.	11.9	5.3	.....	.....	4	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.88	758.9	30.13	765.3	67.5	19.7	53	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.02	762.5	30.11	764.7	60.3	15.7	65	wnw.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.90	759.4	30.07	763.8	72.0	22.2	27	calm	0	0	.....	.....	2	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.67	753.7	29.92	760.0	63.1	17.3	38	nnw.	30.4	13.6	.....	.....	3	nw.	.....	0	0	.....	Prof. O. de Giorgi.
Cosenza	29.10	739.2	29.97	761.2	68.0	20.0	72	wnw.	4.3	1.9	.....	.....	8	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.90	759.5	30.10	764.4	65.3	18.5	50	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.81	757.1	30.06	763.4	63.5	17.5	49	ne.	9.4	4.2	.....	.....	1	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.97	761.2	30.01	762.3	67.3	19.6	55	e.	4.9	2.2	.....	.....	4	wsw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.54	750.2	30.05	763.2	67.5	19.7	53	n.	6.9	3.1	.....	.....	3	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.37	568.2	.....	.....	36.3	2.4	79	e.	.....	.....	2	.....	4	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	21.99	558.5	.....	.....	44.8	7.1	60	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.88	759.0	29.91	759.9	51.3	10.7	84	calm	.....	.....	0	4 ck	0	nw.	.....	0	0	fair	H. Hattori.
Awomori	29.91	759.7	29.95	760.7	46.2	7.9	92	nne.	7.5	3.4	.....	0	2ckks	.....	w.	0	0	fair	K. Ogawa.
Hamamatsu	29.91	759.7	29.94	760.4	60.4	15.8	92	calm	.....	.....	0	5 ck	3 s	w.	w.	0	0	cloudy	
Kagoshima	29.90	759.4	29.91	759.7	67.0	19.4	83	ene.	.....	.....	2	.....	10 s	.....	.....	0.240	6.1	overcast	G. Miyanonaza.
Kioto	29.76	755.9	29.94	760.4	54.1	12.3	90	nnw.	1.5	0.6	.....	0	0	.....	.....	0.303	7.7	clear	M. Tojima.
Misaoka	29.91	759.7	29.94	760.4	63.7	17.6	84	nne.	.....	.....	2	.....	10 n	.....	nne.	0.906	23.0	raining	K. Masuaki.
Miyako	29.87	758.6	29.98	761.4	45.0	7.2	99	calm	0	0	.....	.....	10 s	.....	.....	0.020	0.5	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.73	755.1	29.93	760.2	61.0	16.1	83	ne.	0.9	0.4	.....	0	0	.....	.....	0.050	1.3	clear	S. Takehayashi.
Niigata	29.91	759.7	29.94	760.5	56.0	13.3	74	se.	2.9	1.2	.....	.....	10 ck	.....	sw.	0	0	cloudy	M. Morita.
Nobiru	29.93	760.3	29.95	760.7	50.2	10.1	98	nnw.	8.1	3.7	.....	.....	10 s	.....	.....	0.005	0.1	covered	H. Midzushina.
Numazu	29.91	759.7	29.94	760.6	59.0	15.0	86	calm	.....	.....	0	.....	10 ks	.....	.....	0.311	7.9	cloudy	R. Kaneda.
Osaka	29.91	759.7	29.92	760.1	55.8	13.2	94	nne.	4.0	1.8	.....	0	1 s	.....	.....	0.185	4.7	clear	H. Omura.
Tokei Obs'y, Yeddo	29.89	759.2	29.96	761.1	57.6	14.2	97	ene.	4.0	1.3	.....	.....	10 n	.....	.....	0.398	10.1	rainy	The Staff.
Wakayama	29.87	758.6	29.92	759.9	58.4	14.7	89	n.	4.1	1.8	.....	2 ck	0	w.	.....	0.020	15.7	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.89	759.2	30.08	764.0	76.4	24.7	65	e.	13.0	5.8	.....	0	5 ks;ku	.....	s.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.67	601.2	29.89	759.2	60.6	15.9	64	w.	inap.	inap.	.....	1 c	0	.....	.....	0	0	clear	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.96	761.0	58.5	14.7	71	calm	0	0	.....	4 c	0	.....	.....	0	0	dense fog	Prof. M. Leal.
Mazatlan	29.67	753.6	29.93	760.2	69.0	20.6	87	e.	1.6	0.8	.....	6 cs	0	sw.	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.11	764.8	30.11	764.8	60.3	15.7	.....	sse.	.....	.....	3	.....	.....	.....	.....	0.307	7.8	.....	
Groningen	30.02	762.6	30.08	764.0	58.1	14.5	.....	w.	.....	.....	4	.....	.....	.....	.....	0.055	1.4	.....	
Helder	30.06	763.5	30.06	763.5	54.3	12.4	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.11	764.7	30.11	764.7	60.3	15.7	70	sw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.07	763.8	30.12	765.0	64.9	18.3	65	sw.	.....	.....	3	.....	5	.....	.....	0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.83	757.6	.....	.....	81.3	27.4	81	ne.	0	0	.....	.....	9	.....	.....	0	0	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.65	753.1	29.71	754.7	51.1	10.6	89	s.	36	16	.....	.....	10	.....	.....	0.358	9.1	raining	
Brono	29.63	752.5	29.67	753.5	51.8	11.0	50	n.	.....	.....	2	.....	6	.....	.....	0.315	8.0	.....	
Christiania	29.69	754.0	29.83	757.7	49.3	9.6	91	s.	9	4	.....	.....	10	.....	.....	.....	.....	raining	
Gjesvær	29.73	755.2	29.76	755.8	34.9	1.6	.....	e.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.58	751.2	29.62	752.4	43.2	6.2	97	calm	.....	.....	0	.....	10	.....	.....	0.106	2.7	rain & fog	
PORTUGUESE.																			
Angra, Azores	29.98	761.4	30.13	765.4	61.2	16.2	66	nw.	10.5	4.7	.....	.....	4	.....	.....	0.039	1.0	.....	Dr. J. A. Sampaio.
Campo Major	29.12	739.7	30.14	765.6	52.0	11.1	56	nnw.	0.7	0.3	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.19	766.8	30.28	769.1	63.1	17.3	57	sse.	2.5	1.1	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Gunha.
Lisbon, Observatory	29.82	757.3	30.15	765.9	61.0	16.1	73	sw.	13.6	6.1	.....	.....	2	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.08	764.1	30.15	765.9	66.9	19.4	53	nw.	8.1	3.6	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Serra da Estrella	25.37	644.5	30.08	764.1	52.0	11.1	67	ssw.	11.2	5.0	.....	.....	5	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.77	730.7	29.79	756.7	74.5	23.6	26	sw.	9	4	.....	0	8 k	.....	.....	0.024	0.6	.....	Major K. Lasarew.
Archangel	29.77	756.1	29.79	756.6	56.5	13.6	40	sw.	31	14	.....	.....	10	.....	.....	0.142	3.6	.....	Capt. Sselliwerstow.
Ashurada	29.96	760.9	29.86	758.5	72.0	22.2	75	wnw.	13	6	.....	.....	10 k	.....	.....	0.020	0.5	.....	
Astrakhan	30.13	765.2	30.04	763.1	75.6	24.2	19	se.	16	7	.....	0	2 s	.....	.....	0	0	.....	Capt. Wisganow.
Baku	29.94	760.4	29.89	759.2	70.2	21.2	50	ese.	13	6	.....	0	5 ks	.....	.....	0	0	.....	
Barnaul	29.19	741.5	29.68	753.8	60.4	15.8	36	w.	31	14	.....	.....	10	.....	.....	0.118	3.0	.....	Meteorological Obs'y
Bielosersk	29.56	750.7	30.01	762.3	62.6	17.0	54	n.	2	1	.....	c	8 ks	.....	.....	0	0	.....	
Dorpat	29.91	759.7	30.15	765.8	57.0	13.9	48	wsw.	11	5	.....	.....	9 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.99	736.3	29.91	759.6	75.9	24.4	30	w.	9	4	.....	ck	2 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Elisawetgrad	29.38	746.3	29.81	757.2	76.0	24.8	34	nne.	9	4	.....	.....	10ks;n	.....	.....	inap.	inap.	.....	
Irkutsk	28.27	718.1	29.91	759.7	48.2	9.0	37	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	
Kasalinsk	29.39	746.4	29.56	750.9	74.5	23.6	41	calm	0	0	.....	0	6 k	.....	.....	.....	.....	.....	
Kasan	29.77	756.1	30.02	762.5	84.0	28.9	28	w	9	4	.....	0	1	.....	.....	0	0	.....	Observatory.
Kem	29.75	755.6	29.80	756.9	46.8	8.2	70	sw.	45	20	.....	.....	10 ks	.....	.....	0	0	heavy cl'ds.	
Kertch	29.77	756.2	29.80	756.8	67.1	19.5	76	calm	0	0	.....	0	4 k	.....	.....	0	0	.....	Lagorio & Sustyrea.
Kieff	29.22	742.3	29.84	757.8	71.1	21.7	50	n.	4	2	.....	c	1 ks	.....	.....	0	0	light clouds	Observatory.
Koslov	29.49	749.1	30.01	762.2	74.1	23.4	52	ssw.	7	3	.....	.....	3 k	.....	.....	0	0	.....	
Libau	30.21	767.4	30.24	768.0	49.5	9.7	71	s.	9	4	.....	.....	0	.....	.....	0	0	.....	E. Quass.
Lugan	29.03	752.5	29.78	756.5	83.5	28.6	24	ese.	45	20	.....	.....	9	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.50	749.3	29.94	760.5	81.3	27.4	25	wsw.	3.4	1.5	.....	0	7 ks	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.74	755.3	29.81	757.2	73.8	23.2	56	calm	0	0	.....	cs	4 k	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.79	756.7	29.88	758.9	33.8	1.0	89	e.	9	4	.....	.....	0	.....	.....	c	0	.....	Iwanow.
Pekin, China	29.01	752.0	29.75	755.0	72.5	22.5	44	nw.	0.7	3.0	.....	0	6 k	.....	.....	0.106	2.7	.....	Physical Observatory.
Petro-Alexandrovsk	29.04	752.9	29.98	761.4	81.7	27.6	15	ne.	2.2	1.0	.....	0	5 ks	.....	.....	0	0	.....	
Petrozavodsk	29.76	755.8	29.95	760.7	59.7	15.4	38	wsw.	27	12	.....	0	8 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.59	751.5	30.08	764.0	58.1	14.5	61	nnw.	22	10	.....	.....	10 ks	.....	.....	0.130	3.3	.....	
Poti	29.72	754.9	29.75	755.7	77.2	25.1	93	e.	13	6	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	30.08	764.0	30.10	764.6	52.2	11.2	57	nw.	11	5	.....	.....	9 ku	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.53	699.3	29.91	759.8	72.0	22.2	37	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.22	742.3	29.85	758.1	74.7	23.7	21	sw.	18	8	.....	.....	2	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.58	751.3	29.80	757.0	61.7	16.5	72	nw.	11	5	.....	0	1 s	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Staroi Bykhov	29.55	750.6	30.00	761.9	63.9	17.7	57	ne.	16	7			10			0	0		
Tashkend	28.31	719.1	29.91	759.7	75.2	24.0	29	calm	0	0		0	3 s			0.039	1.0		Terch, A. M.
Tiflis	28.48	723.3	29.83	757.6	76.3	24.6	38	w.	2	1		0	4 ks			0.169	4.3		Physical Observatory.
Vernoe	27.46	697.4	29.92	759.9	59.4	15.2	56	sw.	11	5			8 n			0.3[illegible]8	9.6	raining	
Viatka	29.31	744.5	29.91	759.7	81.1	27.3	24	wsw.	7	3		0	0			0	0		
Warsaw	29.80	757.0	30.22	767.7	58.1	14.5	39	nnw.	7	3		0	3 k			0	0	hvy. clouds	Astronomical Obs'y.
Yeniseisk	29.11	739.5	29.40	746.8	39.6	4.2	94	sw.	13	6			10			0.035	0.9	snowing	M. O. Marks.
SCOTTISH.																			
Monach. Lt			29.33	745.0	51	10.6	93	s			4		10			0.1	3.	showery	J. Youngclause
North Unst			29.40	746.7				s.			4	0	5						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.05	763.2	30.08	763.9	68.0	20.0	45	sw.	3.4	1.5		1 c	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.01	762 2	30.07	763.7	75.2	24.0	47	nw.	2.7	1.2		2	0	w.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.15	689.5	30.02	762.5	67.5	19.7	41	sw.	3.8	1.7		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.4	30.10	764.6	68.5	20.3	39	ne.	4.9	2.2		3	0	s.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.98	761.4	30.11	764.9	68.4	20.2	55	e.	2.2	1.0		5	5			0	0	covered	Olayo Diaz, Director.
Oviedo	29.20	741.6	30.08	764.0	63.5	17.5	78	n.	9.4	4.2		1 k	0			0.012	0.3	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.11	739.5	30.00	761.9	63.7	17.6	59	sw.	12.5	5.6			7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.95	760.7	30.02	762.4	77.4	25.2	85	ne.	5.6	2.5		3 c;cs	k	w.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	758.0	29.90	759.4	84.7	29.3	71	se.	14.8	6.6		0	5 k		ene.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.06	763.6	30.16	766.1	69.6	20.9	56	e.	6.3	2.8		0	1		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.91	759.6	30.00	761.9	81.7	27.6	95	s.	2.7	1.2		6 cs	2 k	s.	s.	0	0	d. clouds	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.69	754.2	29.73	755.2	39.2	4.0	93	s.			2		8			0	0		
Umea	29.73	755.1	29.78	756.4	54.3	12.4	74	sw.			6		1			0	0		
Hernosand	29.70	754.3	29.75	755.6	57.6	14.2	57	s.			4		5			0.098	2.5		
Stockholm	29.82	757.5	30.00	762.0	53.4	11.9	58	ssw.			4		10			0.035	0.9		
Wisby	30.00	761.9	30.06	763.4	55.0	12.8	55	sw.			6		7			0	0		
Sub-series.																			
Upsala	29.85	758.2	29.94	760.4	52.7	11.5	76	sw.	22.8	10.2			10		wsw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.74	730.0	30.14	765.5	63.7	17.6	45	n.			2		0			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			29.74	755.3	59.2	15.1	84	n.	25	11.0			10		ne.	0.283	7.2		The Observatory.
Valona			29.97	761.3	67.1	19.5		n.			3		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.83	757.6	70.0	21.1	74	sw.			2	c	10 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.61	675.9			43	6.1	93						10 n		calm			snowing	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.97	761.2	30.05	763.3	48.5	9.2	41	nw.	8	3.6		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.54	750.3	30.20	767.1	36	2.2	61	w.	5	2.2		7 k	0	w.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.97	634.2	29.79	756.7	39	3.9	76	e.	4	1.8		0	6 s		sw.	0.13	3.3	fair	J. B. Turton.
Assinnaboine, Ft., Montana	26.83	681.5	29.67	753.6	47	8.3	86	e.	18	8.0			10 n		e.	0.13	3.3	light rain	B. O. Lenoir.
Atlanta, Georgia	28.93	734.8	30.10	764.5	61.0	16.1	65	nw.	4	1.8		3 c	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.02	762.5	30.03	762.7	55	12.8	86	n.	8	3.6		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.90	759.4	30.09	764.3	64	17.8	84	calm	0	0		5 c	0	nw.		0	0	fair	John Healy.
Baltimore, Maryland	30.04	763.0	30.09	764.3	59	15.0	54	w.	4	1.8		hz.	0			0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.01	762.2	30.03	762.7	54.5	12.5	68	ne.	11	4.9		0	hz.			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.76	755.9	29.78	756.4	31.1	— 0.5		n.	20	8.9		0	6 k		n.	inap.	inap.	fair	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28 24	717.3	29.80	756.9	43.0	6.1	100	se.	15	6.7			10 n		se.	0.06	1.5	light rain	A. Pritchard.
Benton, Fort, Montana	26.85	682.0	29.64	752.8	48	8.9	100	ne.	8	3.6			10 n		ne.	0.40	10.2	light rain	S. Wheaton.
Billings, Montana	26.40	670.5	29.58	751.3	48	8.9	86	ne.	1	0.4			10 k			0.16	4.1	cloudy	T. Gibson.
Bismarck, Dakota	28.11	714.0	29.90	759.4	43	6.1	47	e.	17	7.6			10 s		se.	0	0	threatening.	Cyrus Cramer.
Block Island, Rhode Island	29.93	760.2	29.96	761.0	52	11.1	52	n.	11	4.9		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	26.91	683.5	29.75	755.6	39	3.9	92	calm	0	0		0	0			0.82	20.8	clear	J. Kenealy.
Boston, Massachusetts	29.78	756.4	29.94	760.5	51.5	10.8	48	nw.	13	5.8		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.82	757.4	29.86	758.4	76.5	24.7	76	s.	12	5.4		2 c	3 s	w.	s.	0	0	fair	M. McCarty.
Buffalo, New York	29.38	746.2	30.12	765 0	37.8	3.2	56	w.	11	4.9		3 cs	2 ks	w.	w.	inap.	inap.	fair	W. Finn.
Buford, Fort, Dakota	27.86	707.6	29.84	757.9	42	5.6	100	e.	25	11.2			10 n			0.08	2.0	light rain	F. A. Mellen.
Burlington, Vermont	29.70	754.4	30.00	762.0	44.0	6.7	68	s.	4	1.8		0	0			0	0	clear	D. N. Farnell.
Cairo, Illinois	29.70	754.4	30.10	764.5	58.6	14.8	83	se.	10	4.5			10 s		se.	0	0	threatening.	W. H. Ray.
Cape Henry, Virginia	30.04	763.0	30.06	763.5	58	14.4	93	calm	0	0			10 s		s.	0.05	1.3	cloudy	A. K. Alderson.
Cape May, New Jersey	30.02	762.5	30.05	763.3	57.0	13.9	67	n.	13	5.8		1 cs	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.28	743.7	29.96	761.0	45.5	7.5	80	sw.			1		10 ks		sw.	0.27	6.9	cloudy	J. J. McLean.
Cedar Keys, Florida	30.03	762.7	30.05	763.3	78	25.6	76	ne.	2	0.9		2 k	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.01	762.2	30.06	763.5	71.0	21.7	93	calm	0	0		0	fg.			1.08	27.4	clear	J. H. Smith.
Charlotte, N. Carolina	29.24	742.7	30.08	764.0	63.5	17.5	54	n.	2	0.9		5 c	fg.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.29	744.0	30.10	764.5	56.5	13.6	77	nw.	1	0.4		8 cs	sk.			0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.60	599.4	29.47	748.5	40.4	4 7	82	s.	4	1.8			10 s		s.	0.34	8.6	cloudy	E. McGovern.
Chicago, Illinois	29.49	749.0	30.19	766.8	44.0	6.7	69	e.	9	4.0		6 cs	0	w.		0	0	fair	John Laurens.
Chincoteague, Virginia	30.03	762.7	30.05	763.3	59	15.0	70	n.	10	4.5			10 ks		nw.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.55	750.6	30.20	767.1	50.0	10.0	86	ne.	4	1.8		5 c	0			inap.	inap.	fair	L. Dunne.
Cleveland, Ohio	29.47	748.5	30.20	767.1	42.3	5.7	45	n.	6	2.7		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.02	711.7	29.82	757.4	65	18.3	84	s.	12	5.4		8 k	0	sw.		0	0	cloudy	T. J. Kenan.
Columbus, Ohio	29.33	745.0	30.17	766.3	45	7.2	53	n.	7	3.1		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	27.89	708.4	29.79	756.7	64.0	17.8	90	s.	12	5.4			10 s			0.18	4.6	cloudy	J. McGlone.
Davenport, Iowa	29.42	747.3	30.06	763.5	49	9.4	71	e.	10	4.5			10 s		se.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.07	636.8	29.79	756.7	58	14.4	83	calm	0	0		0	0			0.52	13.2	clear	J. Williams.
Dayton, Washington T'y	27.92	709.2	29.67	753.6	47	8.3	93	sw.	24	10.7			10 n		sw.	1.16	29.5	light rain	D. Moore.
Deadwood, Dakota	24.98	634.5	29.50	749.3	38	3.3	100	ne.	2	0.9			10 n			0.01	0.3	light snow	F. Willson.
Delaware Breakwater, Del.	30.03	762.7	30.05	763 3	57	13.9	69	n.	14	6.3		0	3 k		n.	0	0	clear	T. S. Townsend.
Denver, Colorado	24.28	616.7	29.44	747.8	45.0	7.2	86	n.	5	2.2			10 s			0.52	13.2	cloudy	F. M. Neal.
Des Moines, Iowa	29.08	738.6	29.97	761.2	48	8.9	71	se.	10	4.5			10 s		se.	inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.50	749.3	30.20	767.1	39.0	3.9	65	nw.	6	2.7		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.02	686.3	29.57	751.1	58	14.4	84	w.	1	0.4		0	6 s		sw.	0.35	8.9	fair	J. H. Bryce.
Dubuque, Iowa	29.39	746.5	30.09	764.3	41.3	5.2	75	e.	2	0.9			10 s		se.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.43	747.5	30.18	766.6	42	5.6	65	ne.	3	1.3		6 cs	0			0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.07	738.4	29.87	758.7	74.0	23.3	71	se.	12	5.4		0	1 s			0	0	clear	F. Belford.
Eagle Rock, Idaho	24.97	634.2	29.65	753.1	45	7.2	71	sw.	22	9.8		0	8 ks		sw.	0	0	cloudy	H. R. Boynton.
Eastport, Maine	29.75	755.6	29.82	757.4	46.0	7.8	72	w.	6	2.7		8 ck	0	w.		0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.00	685.8	29.70	754.4	57	13.9	60	s.	12	5.4		0	0			0.73	18.5	clear	W. J. Cundall.
El Paso, Texas	26.18	665.0	29.82	757.4	53.1	11.7	44	sw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.47	748.5	30.19	766.8	41	5.0	65	nw.	8	3.6			10 s		nw.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.58	751.3	30.24	768.1	41.5	5.3	69	calm	0	0		1 c	1 s			0	0	clear	George Heathcote.
Galveston, Texas	29.94	760.5	29.98	761.5	75	23.9	71	s.	16	7.2		1 cs	8 ks		s.	0	0	cloudy	E. O'O. MacInerney.
Grand Haven, Michigan	29.56	750.8	30.22	767.6	38.5	3.6	50	calm	0	0		1 c	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.19	639.8	29.80	756.9	40	4.4	40	calm	0	0		0	0			0.02	0.5	clear	Robert C. Lord.
Hatteras, North Carolina	30.04	763.0	30.06	763.5	60	15.6	93	e.	3	1.3		9 k	0	ne.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.50	647.7	29.67	753.6	45	7.2	70	sw.	7	3.1			10 s		calm	0.11	2.8	cloudy	N. C. Smith.
Huron, Dakota	28.46	722.9	29.82	757.4	44	6.7	94	e.	16	7.2			10 n			inap.	inap.	light rain	S. W. Glenn.
Indianapolis, Indiana	29.35	745.5	30.14	765.5	45.3	7.4	53	ne.	2	0.9			10 s			0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.92	760.0	29.95	760.7	74.5	23.6	84	se.	13	5.8		2 c	3 cs	w.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.61	726.7	29.76	755.9	71	21.7	62	se.	9	4.0			10 s			0	0	cloudy	D. J. Carr.
Jacksonville Florida	30.04	763.0	30.08	764.0	76.5	24.7	79	s.	2	0.9		0	0			0	0	clear	J. W. Smith.

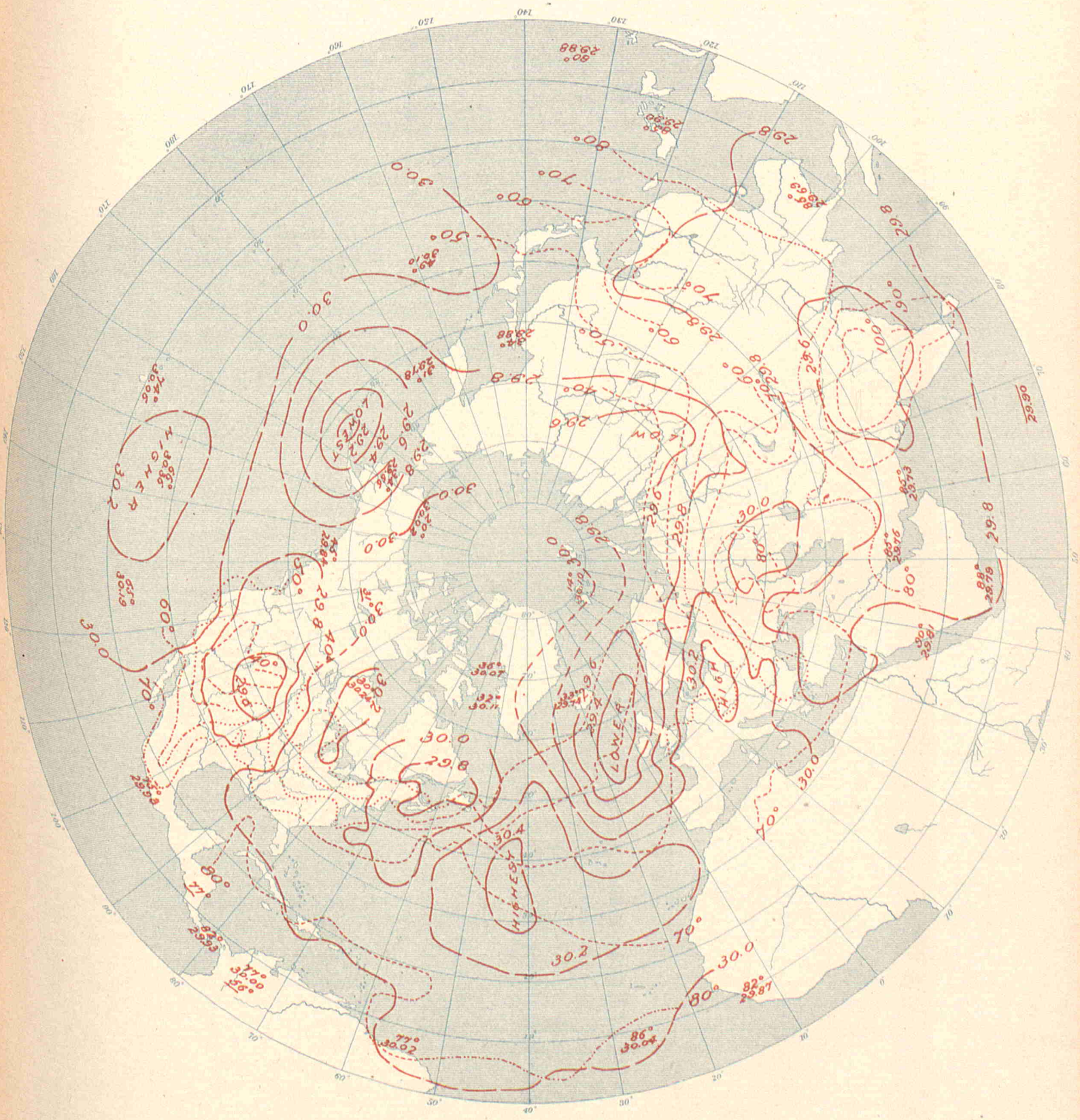
Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.15	689.6	29.60	751.8	44	6.7	93	se.	12	5.4			10 s			inap.	inap.	cloudy	W. B. Lamar.
Keokuk, Iowa	29.40	746.7	30.05	763.3	51.0	10.6	86	e.	16	7.2			10 s		e.	0.06	1.5	cloudy	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	80.0	26.7	74	ne.	3	1.3		2 cs	0			0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.07	763.8	30.09	764.3	57	13.9	100	se.	2	0.9			10 s			0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.11	739.6	30.13	765.3	57.8	14.3	70	n.	2	0.9		10 ck	0	nw.		0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.35	745.5	30.11	764.8	46	7.8	53	se.	6	2.7		1 c	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	28.92	734.6	29.80	756.9	56	13.3	93	se.	9	4.0			10 n		se.	0.84	21.3	thund'r st'm	A. W. Browne.
Lewiston, Idaho	28.76	755.9	29.60	751.8	52.8	11.6	88	se.	2	0.9			10 n		s.	0.29	7.4	light rain	W. Bell.
Little Rock, Arkansas	29.64	752.8	29.95	760.7	61	16.1	84	e.	1	0.4			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.67	753.6	30.07	763.8	55	12.8	93	s.	8	3.6			10 s			0.01	0.3	cloudy	T. S. Collins.
Louisville, Kentucky	29.55	750.6	30.10	764.5	53	11.7	64	ne.	14	6.3			10 s			inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.39	746.5	30.07	763.8	65	18.3	54	calm	0	0		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.53	750.0	30.18	766.6	36.4	2.4	66	nw.	8	3.6		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.05	763.3	30.06	763.5	67.0	19.4	84	se.	4	1.8			10 s		se.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.23	640.8	29.64	752.8	44	6.7	68	e.	4	1.8			10 s			0	0	cloudy	F. Burke.
Marquette, Michigan	29.50	749.3	30.22	767.6	43	6.1	60	w.	4	1.8		0	0			inap.	inap.	clear	E. H. Thompson.
Memphis, Tennessee	29.67	753.6	30.00	762.0	61	16.1	87	calm	0	0		10 cs	0			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.45	748.0	30.19	766.8	43	6.1	68	se.	11	4.9		6 cs	0	nw.		0	0	fair	W. Line.
Missoula, Fort, Montana	26.32	668.8	29.62	752.3	53	11.7	69	s.	2	0.9			10 s			0	0	threatening	J. H. Young.
Mobile, Alabama	30.03	762.7	30.07	763.8	63.4	17.4	82	w.	4	1.8		2 c	0	nw.		0	0	clear	C. A. Read.
Montgomery, Alabama	29.81	757.2	30.04	763.0	62.5	16.9	70	n.	2	0.9		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.00	736.6	29.98	761.5	33	0.6	78	e.	10	4.5		4 c	0	e.		0	0	fair	H. Bessaut.
Mt. Washington, N. H.	23.50	596.9	29.68	753.9	15.5	—9.2	100	nw.	44	19.7			fg.		nw.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.51	749.5	30.08	764.0	56.5	13.6	77	ne.	2	0.9		10 cs	0	w.		0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.88	758.9	30.00	762.0	50	10.0	39	n.	13	5.8		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.93	760.2	29.98	761.5	51	10.6	52	n.	5	2.2		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	71.0	21.7	84	se.	2	0.9		2 c	0			0	0	clear	H. C. Smyth.
New York, New York	29.86	758.4	30.04	763.0	54	12.2	44	n	4	1.8		0	0			0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.04	763 0	30.07	763.8	59	15.0	87	calm	0	0			10 ks		ne.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	26.58	675.1	29.45	748.0	46.6	8.1	94	e	6	2.7			10 n			0.32	8.1	light rain	E. F. Brady.
Olympia, Washington T'y	29.75	755.6	29.79	756.7	46.0	7.8	83	n.	1	0.4			10 n			0.10	2.5	light rain	J. Dascomb.
Omaha, Nebraska	28.64	727.4	29.80	756.9	48.6	9.2	93	se.	18	8.0			10 n		e.	0.70	17.8	heavy rain	A. Pollak.
Ooglaamie, Alaska	30.00	762.0	30.02	762.5	19.5	— 6.9	100	ne.	18	8.0		6 k	2 s	e.		0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.75	755.6	30.08	764.0	39.5	4.2	77	w.	10	4.5		1 cs	0			0	0	clear	J. G. Linsley.
Palestine, Texas	29.40	746.7	29.95	760.7	69.0	20.6	90	s.	12	5.4			10 ks		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.04	763.0	30.06	763.5	68.2	20.1	57	nw.	5	2.2		3 c	0	w.		0	0	clear	M. McGauran.
Philadelphia, Pa	29.98	761.5	30.08	764.0	54	12.2	80	n.	7	3.1		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.34	440.4	29.40	746.7	10	—12.2	100	sw.	25	11.2			10 s		sw.	0.68	17.3	cloudy	H. Hall.
Plocche, Nevada	23.84	605.5	29.76	755.9	39.5	4.2	87	s.	6	2.7			10 ks		w.	0.07	1.8	cloudy	F. R. Day.
Pittsburg, Pennsylvania	29.34	745.2	30.14	765.5	45.0	7.2	04	nw.	2	0.9		0	0			0	0	clear	W. A. Reid.
Poplar River, Montana	27.69	703.3	29.81	757.2				se.			6		10 n			0.03	0.8	light rain	W. D. Maxwell.
Port Huron, Michigan	29.50	749.3	30.18	766.6	38.0	3.3	62	w.	2	0.9			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	29.84	757.9	29.89	759.2	51	10.6	49	nw.	11	4.9		0	0			0	0	clear	W. W. Eichelberger
Portland, Oregon	29.63	752.6	29.70	754.4	49.0	9.4	77	s.	6	2.7			10 s		s.	0.22	5.6	cloudy	M. L. Hearne.
Portsmouth, N. C.					64	17.8	78	w.	1	0.4			10 ks		s.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.68	626.9	29.78	756.4	36.0	2.2	82	calm	0	0		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.90	759.4	29.93	760.2	53	11.7	61	nw.	8	3.6		2 k	2 s	w.	w.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.02	762.5	30.03	762.7	74	23.3	84	ne.	4	1.8		1 c	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.63	752.6	29.98	761.5	45	7.2	83	s.	3	1.3		0	6 ks		s.	0.04	1.0	fair	J. R. Williams.
Rochester, New York	29.44	747.8	30.10	764.5	37	2.8	72	w.	14	6.3		0	0			0	0	clear	E. W. McGann.
Roseburg, Oregon	29.18	741.2	29.73	755.1	43.5	6.4	93	sw.	5	2.2			10 n		sw.	0.65	16.5	light rain	J. J. Nanry.
Sacramento, California	29.97	761.2	30.05	763 3	50.5	10.3	78	sw.	8	3.6		0	0			0.01	0.3	clear	J. A. Barwick.
St. Louis, Missouri	29.48	748.8	30.07	763.8	55.0	12.8	90	e.	6	2.7			10 s		s.	0.01	0.3	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.63	752.6	29.66	753.4	34	1.1	100	ne.	4	1.8			10 n			0.03	0.8	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.22	742.2	30.06	763.5	42.5	5.8	62	se.	10	4.5		9 cs	0	w.		0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.23	742.4	30.09	764.3	35	1.7	79	se.	4	1.8		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah																			J. Craig.
San Antonio, Texas	29.20	741.7	29.90	759.4	72	22.2	84	se.	6	2.7			10 s			0	0	cloudy	J. H. Davis.
San Diego, California	29.99	761.7	30.06	763.5	55.2	12.9	88	nw.	3	1.3			10 n		sw.	0.67	17.0	light rain	A. C. Dobbins.
Sandy Hook, New Jersey	30.00	762.0	30.03	762.7	52.0	11.1	47	n.	15	6.7		0	0			0	0	clear	B. A. Blundon.
Sanford, Florida	30.00	762.0			75.4	24.1	85	calm	0	0		0	fg.			0	0	clear	J. B. Marbury.
San Francisco, California	30.03	762.7	30.10	764.5	50	10.0	74	w.	11	4.9			8 s		w.	0.11	2.8	cloudy	N. Gorom.
Santa Fé, New Mexico	23.04	585.2	29.65	753.1	36	2.2	82	sw.	12	5.4		2 k	7 s	w.	w.	0.38	9.7	cloudy	H. U. Jones.
Savannah, Georgia	29.98	761.5	30.07	763.8	74	23.3	82	s.	2	0.9		1 c	hz.			inap.	inap.	clear	H. W. Ford.
Shaw, Fort, Montana	26.03	661.2	29.63	752 6	42	5.6	92	nw.	11	4.9			10 k		nw.	0.17	4.3	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.74	755.4	29.98	761 5	69.5	20.8	86	se.	3	1.3			10 s		se.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.51	724.1	29.73	755.1	70.5	21.4	70	sw.	12	5.4			10 s		s.	0	0	cloudy	W. M. Mattingly.
Sitka, Alaska	29.78	756.4	29.84	757.9	44.5	6.9	83	w	2	0 9			10 ks		w.	0.02	0.5	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.38	746.2	29.85	758.2	66.0	18.9	73	e.	8	3.6			10 s		s.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.02	762.5	30.06	763.5	68	20.0	84	w.	4	1.8		3 c	0	nw.		0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.58	700.5	29.62	752.3	49	9.4	100	s.	10	4.5			10 n			0.26	6.6	heavy rain	John F. Hemenway.
Springfield, Illinois	29.41	747.0	30.08	764.0	52.5	11.4	69	e.	8	3.6			10 s			0.03	0.8	cloudy	T. B. Jennings.
Springfield, Missouri	28.46	722.9	29.88	758.9	58	14.4	74	se.	14	6.3			10 s		sw	0.58	14.7	cloudy	J. H. Bryce.
Starkville, Miss	29.57	751.1	30.04	763.0	64	17.8	84	ne.	4	1.8		4 c	3 s	w.		0	0	fair	C. Dill.
Stevenson, Fort, Dakota	28.10	713.7	29.93	760.2	44	6.7	76	se.	15	6.7			10 s		se.	0	0	cloudy	A. Schneider.
Stockton, Fort, Texas	26.84	681 7	29.85	758.2	60	15.6	93	s.	3	1.3		2 ck	0	w.		0.29	7.4	clear	A. J. Warren.
Thatcher's Island, Mass	29.88	758 9	29.93	760.2	49.4	9.7	77	n.	13	5.8		2 k	0	w.		0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.23	691.6	29.90	759.4	46	7.8	71	e.			1	3 cs	0			0.02	0.5	clear	J. T. Fitzgerald.
Toledo, Ohio	29.51	749.5	30.19	766.8	44	6.7	60	nw.	4	1.8		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.55	699.8	29.89	759.2	49	9.4	58	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.09	738.9	29.11	739.4	40	4.4	73	se.	4	1.8		0	6 s			1.59	40.4	fair	Samuel Applegate.
Verde, Fort, Arizona					48	8.9	38	w.			1	0	0			inap.	inap.	clear	O. L. Pease.
Vicksburg, Mississippi	29.78	756.4	30.03	762.7	62.4	16.9	81	se.	8	3.6		6 c	0	e.		0	0	fair	James Kenealy.
Visalia, California	29.66	753.4	30.03	762.7	53.3	11.8	86	nw.	3	1.3			10 s		nw.	0	0	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.05	610.9	29.53	750.0	46.5	8.1	89	se.	3	1.3			10 k			0	0	cloudy	T. M. Ambler.
Washington, D. C.	29.98	761.5	30.09	764.3	57.9	14.4	57	nw.	6	2.7		0	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.55	649.0	29.40	746.7	48	8.9	71	sw.	20	8.9		0	8 s		nw.	0.32	8.1	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.49	749.0	30.09	764.3	46	7.8	68	w.	3	1.3		0	0			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.00	762.0	30.04	763.0	65	18.3	90	w.	1	0.4			10 s			inap.	inap.	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.38	644.6	29.73	755.1	41	5.0	76	w.	11	4.9		0	8 s		w.	0.10	2.5	cloudy	J. Grover.
Yankton, Dakota	28.52	724.4	29.80	756.9	43	6.1	74	se.	20	8.9		5 cs	0			0	0	fair	J. H. Atfield.
Yuma, Arizona	29.77	756.1	29.92	760.0	57.1	13.9	70	nw.	5	2.2		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			55.5	13.1	83	calm	0	0			10s;n		w.	0.04	1.0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			29.99	761.7			84	n.	1	0.4			10 s			0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	91	se.			2		8 ps		e.	0.900	22.9	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.44	747.8	30.00	762.0	77	25.0	94	calm			0		10 ks		calm	1.42	36.1	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	95	ne.			1	2 ks		ne.		0.55	14.0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos.
Santiago de Cuba, W. I.	29.96	761.0	29.99	761.7	80	26.7	79	n.	1	0.4		9 cs	1 s		ne.	0	0		R. Mason.
York Factory, B. A.	30.17	766.3	30.24	768.1	29.5	— 1.4	94	w.	7	3.1		1 c	0	w.		0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, Malta, Mediterranean	30.08	764.0	66	18.9	54	wnw.			1		1	w/nw.						blue sky.
H. M. S. Dido. Barbadoes, W. I.	29.96	761.0	82	27.8		se.			3		3	e.				2	e.	d. clouds.
H. M. S. Flamingo, N. 31° 05′, W. 67° 53′	29.98	761.5	71	21.7	95	wsw.			2		1	wsw.				1	ssw.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.78	756.4	75	23.9	77	nnw.			1-3		5	wsw.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.17	766.3	63	17.2	72	ese.			2		3	wsw.						d. clouds
H. M. S. Rocket, N. 38° 32′, W. 28° 38′	30.15	765.8	64	17.8	88	wnw.			4		4							squally
H. M. S. Tyne, Balize, British Honduras	29.94	760.5	75	23.9	?	wnw.			2		9	n.				1	e.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	29.79	756.7	47	8.3	92	calm			0		10							overcast.
U. S. Navy Yard, Pensacola, Fla	30.06	763.5	70	21.1	57	n.	3	1.3			2		n.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H.*	29.86	758.4	50	10.0	51	nw.	9	4.0			0			0	0			clear
U. S. S. Alliance, Norfolk, Va	30.06	763.5	61	16.1	88	calm			0		10			0	0			cloudy.
U. S. S. Colorado, New York, N. Y.	30.05	763.3	55	12.8	39	sw.	4	1.8			0			0	0			clear.
U. S. S. Franklin, Norfolk, Va	30.06	763.5	59	15.0	94	nne.	2	0.9			10		ne.	0	0			cloudy.
U. S. S. Jamestown, N. 38° 33′, W. 72° 31′	29.92	760 0	56	13.3	69	n.			6		2		n			sm'h	n.	fair
U. S. S. Kearsarge, Hampton Roads, Va	30.10	764.5	62	16.7	88	calm			0		10							cloudy
U. S. S. Lancaster, Copenhagen, Denmark	30.06	763.5	54	12.2	93	sw.			3		10		calm			sm'h		foggy.
U. S. S. Michigan, Erie, Pa.	30.11	764.8	42	5.6	63	wnw.			2		0							clear.
U. S. S. Minnesota, New York, N. Y.	30.06	763.5	50	10.0	51	n.			3		2							clear.
U. S. S. New Hampshire, Newport, R. I.	29.93	760.2	52	11.1	53	nw.			3		2		calm			sm'h		fair.
U. S. S. Portsmouth, Long Island, N. Y.	30.07	763.8	51	10.6	86	sw.			2		0					sm'h		clear.
U. S. S. Powhatan, N. 11° 17′, W. 75° 43′	29.87	758.7	83	28.3	91	ne.			2		10					long	e.	overcast.
U. S. S. Quinnebaug, Cavally river, Liberia, Africa	29.93	760.2	83	28.3	82	ese.			1		5		ese.			sm'h	ese.	fair.
U. S. S. Saratoga, N. 33° 53′, W. 69° 42′	30.07	763.8	68	20.0	90	calm					0?			h'vy	h'vy	sm'h		raining?
U. S. S. St. Louis, League Island, Pa.	30.11	764.8	52	11.1	66	n.	6.5	2.9			0			0	0			clear.
U. S. S. Swatara, Balize, British Honduras †	29.89	759.2	80	26.7	82	e.			2		5		e.	0	0	sm'h		fair
U. S. S. Tennessee, Fort Monroe, Va.	30.10	764.5	62	16.7	83	calm	0	0			10			0	0			cloudy.
U. S. S. Vandalia, Hampton Roads, Va	30.05	763.3	61	16.1	88	n.			1		8		calm					fair.
U. S. S. Wabash, Boston, Mass.	29.95	760.7	60	15.6	44	nw.	5	2.2			2		w.	0	0			clear.
U. S. S. Yantic, Hampton Roads, Va.	30.09	764.3	60	15.6	94	nnw.			1		10		nnw.					cloudy.
Commewyne, N. 39° 10′, W. 41° 37′	30.40	772.1	58	14.4	72	n.			3		3							d. clouds.
S. S. British Crown, N. 39° 12′, W. 70° 58′			51	10.6		wnw.			3		0			0	0	sm'h		clear.
S. S. British Prince, N. 47° 16′, W. 27° 59′ †	29.94	760.5	51	10.6		n.			6		7		n.	5 h'r	5 h'r	high	nw.	cloudy.
S. S. Illinois, Point Lynas, Wales			54	12.2		wsw.			4		5		wsw.			mod.		fair.
S. S. Ohio, off Mine Head Ireland †	29.70	754.4	51	10.6	93	ssw.			6		3		ssw.	0	0	str'g	ssw.	clear.
S. S. Pennsylvania, Philadelphia, Pa †	30.01	762.2	56	13.3		e.			5		5		nne.					fine.
S. S. Circassian, Montreal, Canada	29.96	761.0	45	7.2	76	w.			3		2		w.	0	0			d. clouds.
S. S. Grecian, Quebec, Canada	29.89	759.2	44	6.7	84	ssw.			3		10		ssw.	4 h'r	4 h'r			cloudy.
S. S. Nova Scotian, N. 43° 08′ W. 62° 11′	29.85	758.2	43	6.1		w.			3		fg		wnw.			sm'h		foggy.
S. S. Polynesian, N. 48° 31′, W. 68° 27′	29.84	757.9	39	3.9		wsw.			4		8		nw.	6 h'r	6 h'r	sm'h		cloudy.
S. S. Manitoban, N. 48° 49′, W. 50° 15′			34	1.1	79	ssw.			4		6		sw.	12 h'r	12 h'r	mod.	w.	hazy.
S. S. Sardinian, N. 40° 32′, W. 68° 42′	29.89	759.2	47	8.3		w.			2		3		w.			sm'h		misty.
S. S. Jason, N. 47° 04′ W. 22° 48′			51.8	11.0		nnw.			4		5 k					4	n.	cloudy.
S. S. Alvo, N. 19° 00′, W. 74° 10′	30.01	762 2	78	25.6		ne.			6		8 k		ene.	2 h'r	2 h'r	short	ne.	squally.
S. S. Alene, N. 19° 17′, W. 74° 26′ †	30.05	763.3	81	27.2		ne.			3		8			0	0	sm'h		hazy.
S. S Alisa, Mayaguez, Puerto Rico†	29.94	760.5	84	28.9		ne.			2									
S. S. Anchoria, N. 54° 15′, W. 21° 30′†	29.42	747.3				nw.			5		4		nw.	0	0	mod.	n.	fine.
S. S. Assyria, N. 40° 33′, W. 44° 03′	30.44	773.2	58	14.4		calm			0		0			0	0	sli't	nw.	clear.
S. S. Bolivia, N. 53° 10′, W. 21° 38′ *†	29.53	750.0	52	11.1		nne.			3		8		nne.	rain	rain	mod.	e.	overcast.
S. S. Dorian, New York, N. Y.	30.10	764.5																
S. S. Devonia, N. 51° 50′, W. 27° 50′*†	29.76	755.9	48	8.9		nnw.			6		6		nnw.			h'vy	n.	rain-squalls
S. S. Furnesia, N. 49° 02′, W. 27° 58′ †	29.82	757.4	55	12.8	81	nnw.			6		10		n.	0	0	r'gh	nw.	overcast.
S. S. Elysia, N. 41° 22′, W. 55° 00′	30.08	764.0	69	20.6	95	s.			4		6		ssw.	2 h'r	2 h'r	sli't	ssw.	fair.
S S. Llandaff City, N. 44° 55′, W. 42° 38′			52	11.1		wsw.			2		5		sw.	0	0	mod.	ne.	fair.
S. S. Pavonia, Mersey river, Eng.	29.66	753.4	58	14.4	82	wsw.			6		8		wsw.	4 h'r	4 h'r			cloudy.
S. S. France, N. 49° 43′, W. 6° 56′†*	29.79	756.7	53.6	12		s.			5		5		sw.	0	0	h'vy	wsw.	fair.
S. S. Ville de Marseilles, N. 20° 43′, W. 80° 47′			77	25.0		ene.			3		4		ene.	0	0	sm'h		fair.
S. S. Arizona, off Kinsah, Ireland	29.62	752.3	52	11.1		s.			5		3		ssw.	0	0	mod.	ssw.	clear.
S. S. Wisconsin, N. 41° 05′, W. 51° 10′			62	16.7		ssw.			3		2		s.	0	0	sm'h		fair.
S. S. Wyoming, N. 45° 51′, W. 39° 56′	30.35	770.9	53	11.7		n.			2		2		nne.	0	0	r'gh	nne.	fair.
S. S. Bohemia, Hamburg, Germany						se.			5		4		se.	4 h'r	4 h'r			fair.
S. S. Gellert, N. 40° 50′, W. 56° 50′	30.16	766.1	72	22.2	80	se.			5		3?		s.	0	0	mod.	s.	cloudy ?
S. S. Rugia, N. 40° 35′, W. 68° 35′	29.99	761.7	55	12.8		w.			4		0			0	0	sm'h	s.	clear.
S. S. Silesia, New York, N. Y.	30.16	766.1	55	12.8		se.			3		4			0	0			fair.
S. S. Westphalia, New York, N. Y.	30.13	765.3	51	10.6	86	w.			4		4		n.	0	0			fair.
S. S. Wieland, N. 49° 28′, W. 9° 02′	29.81	757.2				wsw.			5		4		wsw.	3 h'r	3 h'r	r'gh	wsw.	
S. S. City of Paris, N. 49° 25′, W. 16° 47′ *	29.26	743.2				wsw.			7		2		wsw.	4 h'r	4 h'r	h'vy	wsw.	clear
S. S. Bulgarian, N. 42° 19′, W. 66° 50′	29.92	760.0				nw.			1		fg.			0	0			dense fog.
S. S. Colorado, New York, N. Y †	29.92	760.0	51	10.6		nne.			4		0			0	0			clear
S. S. Rio Grande, N. 25° 45′, W. 86° 00′ *†	30.02	762.5	82	27.8		e.			3		5		se	0	0			fair.
S. S. San Marcos, N. 38° 00′, W. 74° 30′	30.22	765.6	54	12.2		w.			4		3		wnw.			sm'h		clear.
S. S. Chalmette, Algiers, La †	30.12	765.0	76	24.4		calm			0		4			0	0			hazy.
S. S. Alleghany, Baltimore, Md†	30.05	763.3	58	14.4		calm			0		0			0	0			hazy.
S. S. Archimede, N. 39° 01′, W. 69° 16′ †	29.97	761.2	60	15.6	65	wnw.			2		3			nw.	0	short	wnw.	clear.
S. S. Denmark, N. 46° 15′, W. 28° 48′			50	10.0		nnw.			6		5		nnw.	24 h'r	24 h'r	r'gh	nnw.	squally.
S. S. Egypt, N. 50° 44′, W. 22° 31′*†	29.52	749.8	50	10.0		n.			5		5		n.	3 h'r	3 h'r	long	n.	fair.
S. S. England, N. 40° 29′, W. 67° 46′	29.92	760.0	48	8.9		sw.			3		0			0	0	sli't	w.	clear.
S. S. Greece, N. 40° 26′, W. 69° 28′ *	29.86	758.4	45	7.2	100	s.			2				s.	0	0	sm'h		clear.
S. S. Helvetia, N. 40° 28′, W. 69° 46′	29.99	761.7	48	8.9	85	w.			1		2		w.	18 h'r	18 h'r	sm'h		clear.
S. S. Braunschweig, N. 38° 51′, W. 63° 37′	29.87	758.7	65.8	18.3	89	sw.			2-3		10		s.	4 h'r	4 h'r	sm'h	ssw.	rainy.
S. S. Fulda, N. 48° 20′ W. 24° 29′	29.60	751.8	54	12.2	87	nnw.			6		4		nnw.	5 h'r	5 h'r	r'gh	nw.	fair.
S S. Hohenzollern, N. 43° 44′, W. 18° 57′*	29.44	747.8	54.5	12.5		w.			6		5		w.	3 h'r	3 h'r	high	w.	fair.
S. S. Hohenstaufen, N. 49° 00′, W. 20° 22′	29.52	749.8				w.			5-6		6		w.	2½h'r	2½h'r	r'gh	w.	fair.
S. S. Main, N. 41° 37′, W. 48° 17′	30.32	770.1	60.8	16.0		s.			2-3		5		nw.	0	0	sm'h	n.	fair.
S. S. Neckar, N. 45° 40′, W. 34° 03′	30.24	768.1	55.0	12.8	62	nnw.			0		4		nnw.	h'vy	h'vy	cross	nnw.	stormy.
S. S. Ohio, N. 46° 44′, W. 22° 59′	29.72	754 9				nnw.			4		6		n.	2 h'r	2 h'r	cross	var.	fair
S. S. Salier, N. 49° 27′, W. 22° 27′ *†	29.66	753.4	54	12.2		var.			5		10		nne.	3 h'r	3 h'r	high	n.	cloudy.
S. S. Strassburg, N. 49° 24′, W. 10° 48′	29.73	755.1	57.5	14.2	87	ssw.			4		0			3 h'r	3 h'r	7	sw.	clear.
S. S. Weser, N. 40° 02′, W. 65° 36′	29.90	759 4				nw.			5		10		nw.	2 h'r	2 h'r	mod.	w.	cloudy.
S. S. Orinoco, New York, N. Y*†	29.98	761.5	62	16.7		nnw.			5		0			0	0			
S. S. Colon, N. 31° 18′, W. 73° 57′†	30.03	762.7	74	23.3		calm			0		3		sw.	0	0	sm'h	sw.	clear.
S. S. Muriel, N 19° 25′, W. 63° 40′	30.01	762.2	83	28.3		e.			3		5			0	0	mod.	e.	fair.
S. S. City of Augusta, N. 37° 12′, W. 74° 36′ †	30.15	765.8				sse.			2		10		se.	0	0	sm'h		cloudy.
S. S. Belgenland, Antwerp, Belgium†	30.22	767.6	67	19.4	95	ssw.			3		2			4 h'r	4 h'r			clear.
S. S. Rhynland, N. 42° 40′, W. 43° 00′	30.39	771.9	54	12.2	80	w.			3		8			0	0	long	ne.	cloudy.
S. S. Pennland, N. 50° 36′, W. 0° 48′			53	11.7	80	ssw.			5		1		w	4 h'r	4 h'r	mod.	w.	clear.
S. S. Waesland, N. 40° 29′, W. 68° 57′	30.02	762.5	45	7.2		n.			1		2		nnw.	0	0	sm'h	n.	clear.
S. S. Zeeland, N. 40° 00′, W. 60° 00′ *†	29.98	761.5	71	21.7		s.			6				sw.	0	0	h'vy	sw.	cloudy.
S. S. P. Caland, Rotterdam, Holland	30.08	764.0	63	17.2	84	sw.			4		6		e.					fair.
S. S. Rotterdam, N. 45° 10′ W. 41° 47′	30.37	771.4	62	16.7	77	w.			2		6		w.	0	0	4	nw.	fair.
S. S. Schiedam, N. 40° 47′, W. 53° 49′	30.15	765.8	70.5	21.4	85	s.			6		7		s.	2 h'r	2 h'r	long	s.	fair.
S. S. W. A. Scholten, New York, N. Y.	30.04	763.0	53.6	12.0	61	nnw.			5		5		nw.	0	0			fair.
S. S. Caracas, N. 27° 57′, W. 69° 52′†	30.12	765.0	74.5	23.6	79	w.			3		8		nw.	0	0	mod.	ene.	cloudy.
S. S. Valentia, N. 21° 07′, W. 68° 47′†	30.15	765.8	80.5	26.9	89	se.			2		9		se.	0	0	mod.	se.	cloudy.
S. S. State of Florida, N. 43° 25′, W. 46° 39′			49	9.4		sse.			4		10		se.			mod.	var.	overcast.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. State of Nevada, N. 52° 44′ W. 23° 29′ †	29.51	749.5	47	8.3		n.			8		10		n.	0	0	h'vy	n.	squally.
S. S. State of Alabama, N. 40° 09′, W. 58° 20′			70	21.1		s.			7		10		s.	light	light	r'gh	s.	raining.
S. S. Lepanto, N. 48° 14′, W. 5° 21′*	30.00	762.0	56	13.3		ssw.			3		7		sw.	0	0	sm'h		fair.
S. S. Marengo, N. 48° 19′, W. 28° 41′†	30.02	762.5	52	11.1		nw.			7		3		nw.	0	0	h'vy	nw.	fair.
S. S. Otranto, N. 40° 58′, W. 64° 24′	29.99	761.7	59	15.0		nw.			5		7		n.	hv'y	h'vy	sm'h	nw.	fair.
S. S. Romano, N. 42° 19′, W. 43° 15′†	30.36	771.1	56	13.3		ne.			1		9		ne.			h'vy	ne.	dull.
S. S. Oregon, N. 49° 16′, W. 66° 10′	29.67	753.6	36	2.2		se.			6		10					mod.	se.	rain & fog.
S. S. Daniel Steinmann, N. 41° 18′, W. 52° 25′†	30.28	769.1	62	16.7		sse.			1		4		s.	0	0	light	nne.	hazy.
S. S. Planlyn, N. 40° 31′, W. 72° 31′	29.95	760.7							3		2		wnw.	0	0	mod.	nw.	clear.
S. S. Saxon, N. 41° 20′, W. 71° 00′†	29.96	761.0				nw.			5		5			0	0			
S. S. Baltic, N. 41° 28′, W. 56° 46′*	30.03	762.7	64	17.8	94	ssw.			4		5		sw.	0	0	mod.	sw.	misty.
S. S. Germanic, N. 50° 25′ W. 22° 44′			50	10.0		nnw.			7		7		nw.	1 h'r	1 h'r	r'gh	nw.	squally.
S. S. Iowa, N. 45° 48′, W. 30° 52′ †	30.18	766.6	54	12.2		nw.			6		5		nw.	5 h'r	5 h'r	r'gh	nw.	fair.
S. S. Assyrian Monarch, N. 50° 30′, W. 11° —′			53	11.7		wsw.			6		4		w.			long	sw.	fair.
S. S. Antonio Lopez, N. 26° 33′, W. 55° 08′	30.20	767.1	75	23.9	90	se.			4		5			0	0	mod	se.	fair.
Schr. Abbie H. Gheen, N. 37° 30′, W. 74° 50′†	30.09	764.3	60	15.6		wnw.			1					0	0			cloudy.
Bg. Abbie Clifford, N. 18° 31′ W. 67° 28′†	30.02	762.5	80	26.7		sse.			2		5			0	0	sm'h	e.	fair.
Bk. Aquidneck, N. 36° 13′, W. 73° 50′						var.			2				n.	0	0	light	n.	cloudy.
Bk. Alpha, N. 40° 40′, W. 51° 20′*†	30.25	768.3	70	21.1		ssw.			5		3		sw.	0	0	long	nne.	clear.
Bg. Alcira, N. 13° 30′, W. 69° 30′	29.98	761.5	83	28.3		e.			6		6		var.	0	0	r'gh	ne.	fair.
Bk. Adelaide, N. 29° 52′, W. 44° 45′*†	30.42	772.7	75	23.9		e.			4		1		ese.	0	0	mod.	ese.	clear.
Schr. Annie R. Lewis, N. 17° 54′ W. 66° 05′†	30.12	765.0	82	27.8		e.			2		5		e.	6 h'r	6 h'r	mod.	ese.	fair.
Schr. Authur Burton, N. 37° 13′ N. 74° 24′*†	29.95	760.7				nw.			1		10		nw.	0	0	chop	ne.	overcast.
Bk. Achille F, N. 19° 15′, W. 25° 45′†	30.13	765.3	73	22.8	74	ne.			5		4		ne.	0	0	mod.	var.	clear.
Bg. Annie R. Storer, Salt Cay, W. I†	30.08	764.0				ene.			2		8		ene.	0	0			cloudy.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.94	760.5	81	27.2		ene.			1		2		ene.	1 h'r	1 h'r			clear.
Bg. Belle of the Bay, N. 39° 26′, W. 73° 41′†	30.03	762.7				n.			2		4		nw.	0	0	sm'h	nne.	clear.
Bk. Champion, N. 20° 32′, W. 54° 30′			78	25.6	73	e.			4		8		ese.	2 h'r	2 h'r	short	e.	cloudy.
Bkt. C. S. Bushnell, N. 36° 30′ W. 63° 30′	29.89	759.2				var.			6		10		var.	h'vy	h'vy	h'vy	var.	stormy.
S. Cornelius, N. 50° 07′, W. 13° 08′			53.4	11.9		wsw.			9		9		w.	4 h'r	4 h'r	long	w.	raining.
Bk. Childwall, N. 19° 02′, W. 41° 56′*	30.07	763.8	76	24.4		ne.			4		2		ne.	0	0	light	ne.	clear.
Schr. Clotilde, N. 36° 33′, W. 72° 24′*†	29.95	759.7	65	18.3		nne.			2		5		n.	0	0	sm'h	nne.	fair.
S. David Stewart, N. 35° 26′, W. 59° 46′†	29.82	757.4				sw.			7				nw.	0	0	r'gh	wsw.	cloudy.
Bk. David A. Preston, N. 32° 15′, W. 66° 20′			74	23.3		nne.			2		0			0	0	long	se.	
Schr. Edith R. Seward, Port Maria, Jamaica, W. I†	30.07	763.8	82	27.8		ese.			1		3		e.	0	0	sm'h		clear.
Bk. E. D. Bigelow, N. 43° 15′, W. 66° 45′*†	29.77	756.1	59	15.0	94	s.			5		7		s.	shr's	sh'rs			fair.
U.S. Fish Com. S. S. Fish Hawk, Glymont, Md†	29.75	755.6				wnw.			2		10			0	0			dense fog.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.16	766.1	63	17.2	67	nw.			2		1		nw.	0	0			clear.
S. Festina Lente, off Matane river, Canada	30.09	764.3				calm			0					0	0			clear.
Bk. George Davis, N. 37° 18′, W. 64° 00′	29.71	754.6	36	2.2		e.			3		10		w.	3 h'r	3 h'r			raining.
Bk. Gronsvaer, N. 3° 37′, W. 36° 59′†						ssw.							sw.	12 h'r	12 h'r	r'gh	se.	cloudy.
Bg. Gipsy Queen, N. 35° 00′, W. 75° 00′ *†	29.89	759.1	78.0	25.6		ene.			4		10		ene.	10 h'r	10 h'r	long	ne.	raining.
Bg. Galeon, N. 20° 49′, W. 90° 33′†	30.05	763.3				ne.			3							sm'h		fair.
S. Hedwig, N. 39° 12′, W. 40° 26′	29.93	760.2	77	25.0		ese.			3		0			0	0	sm'h	sse.	blue sky.
Bk. Hattie G. McFarland, Port Royal, S C*†	30.44	773.1	57.6	14.2	75	n.			4		4		n.	0	0	3	nw.	fine.
Bk. John H. Pearson, N. 32° 44′, W. 39° 26′	30.05	763.3	74	23.3		sw.			1		2		w	0	0			fair.
Schr. Isabel Alberto, Brooklyn, N. Y †						nne.			1				ene.	0	0	h'vy	nnw.	clear.
Bk. Cato, N. 40° 40′, W. 11° 30′*†	30.05	763.3				n.			2		0			0	0			clear.
Bg. John Wesley, Bailey's Mills, Ga*†	30.07	763.8				wsw.			3		4		w.	0	0	long	nw.	fair.
Schr. Jennie N. Huddell, Baltimore, Md†	29.99	761.7				calm			0		0			0	0			clear.
Bkt. Josephine, N. 16° 13′, W. 54° 35′ †	30.11	764.8	67	19.4	100	n.			1					0	0			fair.
Schr. Leonessa, Baltimore, Md†	30.06	763.5	84	28.9	64	ne.			5		2		ese.	0	0	long	e.	fair.
Bg. L. & W. Armstrong, N. 23° 36′, W. 68° 12′ *†	30.11	764.8				w.			1		0			0	0			clear.
Light-house Tender Laurel, St. Joseph's Bay, Fla†	30.08	764.0				nne.			1		2		ne.	0	0	sm'h	ne	
Bg. Lillian, N. 15° 05′, W. 57° 38′†	30.09	764.3	74	23.3		n.			1		1		n.	0	0			clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.98	761.5	82	27.8		e.			5		4		se.	½h'r	½h'r	mod.	se.	
S. S. Madrid, Ancona, Italy †	29.96	761.0	78	25.6		se.			1		2			1 h'r	1 h'r			clear.
Schr. Minnie A. Bonsall, Brunswick, Ga †	30.20	767.1	70	21.1	75	n.			2		4		nw.	0	0			fair.
Bk. Mt Washington, N. 7° 20′, W. 27° 30′ *†	30.11	764.8	78	25.6		s.			1		0			0	0			clear.
S. Mt Mathais, N. 38° 47′, W. 57° 36′*†	30.04	763.0	86	30.0	72	ene.			4		8		e.	0	0	mod.	ne.	cloudy.
Schr. Maggie Abbott, N. 24° 20′, W. 74° 42′†	30.24	768.1	71	21.7		s.			6		4		s.	0	0	mod.	ssw.	hazy.
S. S. Mendoza, N. 1° 48′, W. 39° 54′†	29.99	761.7				calm			0		2		w.	sh'rs	sh'rs	long	ne.	clear.
Schr. Maud Briggs, N. 25° 30′, W. 59° 42′*†	30.00	762.0				ene.			2				ene.	2 h'r	2 h'r	r'gh	ne.	overcast.
Bk. Ottawa, N. 39° 45′, W. 60° 36′*	30.19	766.8				s.			4		4		s.	0	0	sm'h	e.	clear.
S. S. Raleigh, N. 25° 00′, W. 74° 40′†	29.87	758.7	70	21.1		s.			7				s.	3 h'r	3 h'r	short	sw.	raining.
S. Rudolph, N. 49° 38′, W. 4° 05′	30.10	764.5	77	25.0		nne.			1		2		n.				ene.	fine.
Bk. Rebus, N. 49° 14′, W. 13° 35′			58.0	14.4		ssw.			4		8		wnw.	0	0	mod.	sw.	fair.
Bg. Rising Sun, N. 37° 35′, W. 70° 52′*†	29.44	747.8	52	11.1		sw.			8		7		wsw.	sq'lls	sq'lls	h'vy	wsw.	squally.
Bk. Rosalie, St. John, Antigua*†	30.02	762.5	72	22.2		n			4		1		n.	0	0	mod.	n.	
Bk. Scud, N. 36° 40′, W. 70° 15′*†	29.98	761.5				e.			2					0	0			clear.
Bk. Southern Belle, Huelva, Portugal†	29.96	761.0	65	18.3		n.			5		2		n.	0	0	mod.	s.	clear.
S. St. Francis, N. 27° 26′, W. 41° 18′†	30.17	766.3				sw.			2		0			0	0			clear.
Bk. St. Lawrence, N. 16° 38′, W. 58° 05′*†	30.41	772.4	74	23.3	63	ne.			4		3		ne.	0	0	mod.	n.	fair.
S. S. Strathleven, N. 36° 02′, W. 13° 31′	29.95	760.7				ese.			5				ese.	0	0	mod.	e.	clear.
Bgt. Sunlight, Demerara, Brit. Guiana	30.21	767.3	67.0	19.4	71				2		3		w.	0	0	3	wnw.	d clouds.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	30.10	764.5				ene.			2		4		e.	3 h'r	3 h'r			fair.
Bg. Tuck Sing, N. 39° 08′, W. 73° 19′ *†	29.92	760.0				n.			1		1							
Bk. Usko, N. 40° 21′, W. 55° 06′*	30.06	763.5				n.			2		0			0	0	sm'h		hazy.
S. Vincenzo Accame, N. 36° 48′ W. 56° 15′†	30.10	764.5	69	20.6		sse.			3		3		s.	1 h'r	1 h'r	long	n.	fair.
Schr. Viola Reppard, New Point. Comfort, Va †	30.25	768.2	73.4	23.0		s.			0		4		sw.	0	0	light	s.	fair.
Bk. Winifred, N. 21° 07′, W. 60° 00′*†	30.03	762.7	67	19.4		ne.			1		10		ne.	0	0			cloudy.
S. Wm. McGilvery, N. 17° 44′, W. 37° 00′ *†	30.05	763.3											se.	0	0		se.	d. clouds.
	30.16	766.1	75	23.9	81	e.			5		7		ese.	0	0	mod.	ese.	fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.23	767.8	50	10.0	86	s.			5		4					3	s.	d. clouds.
H. M. S. Boadicea, Cape Town, Cape Colony	30.19	766.8	63	17.2	94	w.			1		6							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.98	761.5	50.5	10.3	96	sw.			2–4		8	calm						overcast.
H. M. S. Thetis, S. 29° 26′, W. 36° 43′	30.07	763.8	73	22.8	85	nne.			5		2					3	sw.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.97	761.2	51	10.6	72	sw.	14	6.3			8		sw.	0	0	mod.	ssw.	cloudy.
U. S. S Galena, Montevideo, Uruguay*	29.95	760.7	51	10.6	65	ssw.			5		10					rg'h	ssw.	cloudy.
May Hulse, S. 55° 08′, W. 53° 50′	29.26	743.2	37.5	3.1	67	ssw.			2		2							blue sky.
S. Hevelius, Buenos Ayres, La Plata †	30.07	763.8	51	10.6		sw.			5		4		sw.	6 h'r	6 h'r			fair.
S. Minnie N. Gerow, S. 28° 01′ W. 29° 58′†	30.17	766.3	74	23.3		ene.			2		2		e.	0	0	sm'h	n.	clear.
S. Paramita, S. 37° 26′, W. 40° 32′†	29.71	754.6	67	19.4		ne.			8		5		ene.	5 h'r	5 h'r	large	nne.	fair.
S. Storm King, S. 47° 17′, W. 60° 49′ *†	29.48	748.8				ssw.			8		5		ssw.	0	0	r'gh	ssw.	fair.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.91	759.7	62	16.7	88	e.			1		4	se.						misty.
H. M. S. Champion, N. 13° 22′, E. 100° 34′	29.09	754.1	85	29.4	96	s.			3		7	s.				3	s.	d. clouds.
H. M. S. Sappho, N. 7° 00′, W. 80° 40′	29.93	760.2	82	27.8	96	calm			0		7	s.				3	sw.	showery.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 05′	29.88	758.9	53.5	11.9	93	calm			0		2							d. clouds.
H. M. S. Swiftsure, Esquimalt, V. I	29.61	752.1	51	10.6	93	wsw.			4–6		8	wsw.						squally.
H. M. S. Zephyr, N. 35° 59′ E. 123° 33′	29.90	759.4	56	13.3	100	calm			0		0							blue sky.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. P. M. S. Tamega, Macao, China	29.88	758.9	82.4	28.0	83	calm			0		8			8 h'r	8 h'r			cloudy.
U. S. Naval Hospital, Yokohama, Japan	30.06	763.5	58.5	14.7	88	calm			0		10		se.	0.56	14.2			light rain.
U. S. S. Adams, Duke Clarence strait, Alaska†	29.77	756.1	48	8.9	85	wnw.			3		8					sm'h		cloudy.
U. S. S. Monocacy, Salee river, Corea	29.95	760.7	56	13.3	87	w.			1		0							clear.
U. S. S. Palos, Hong Kong, China	29.77	756.1	79	26.1	95	e.			1		8		s.					cloudy.
U. S. S. Richmond, Hong Kong, China*	29.77	756.1	80	26.7	96	ne.			1		5		s.	3.1	79.			fair.
S. S. Mexico, N. 23° 50′, W. 108° 10†	29.90	759.4	77	25.0	69	nw.			4		0					mod	nw.	clear.
S. S. Coptic, N. 41° 02′, W. 161° 18′	30.02	762.5	53.9	12.2	?	ssw.			5		10		w.	10 h'r	10 h'r	mod.	w.	raining.
S. S. Oceanic, N. 38° 07′, E. 157° 40′*	30.10	764.5	49	9.4	93	n.			5		8		ne.			3	ne.	cloudy.
S. S. City of Chester, Point Arenas, Cal †			51	10.6	79	wnw.			4		8			0	0	long	nw.	cloudy.
S. S. Willamette, Astoria, Oregon*†	29.72	754.9	52	11.1	93	sse.			1		5		sw.	0.41	10.4			squally.
S. S. Dakota, N. 46° 54′, W. 124° 42′ †	29.68	753.9	53	11.7	73	e.			2		10		s.	0	0	light	s.	cloudy.
S. S. G. W. Elder, N. 44° 05′, W. 124° 48′ †	29.63	752.6	47	8.3	92	sw.			5		10					large	w.	light rain.
S. S. Queen of the Pacific, N. 43° 15′, W. 124° 38′†	29.70	754.4				ssw.			8		5			0	0	h'vy	sw.	fair.
S. S. State of California, N. 40° 56′, W. 124° 30′†	29.98	761.5	48	8.9	70	wsw.			5		8		w.			cross	wsw.	cloudy.
S. S. Australia, N. 22° 07′, W. 155° 54′†	30.06	763.5	74	23.3	86	e.			5		8		e.	0	0	long	e.	cloudy.
S. S. City of New York, N. 29° 10′, W. 145° 17′†	30.36	771.1	66	18.9	79	ne.			5		10		ne.	0	0	mod.	ne.	cloudy.
S. S. City of Pekin, Yokohama, Japan †	30.14	765.5	58	14.4	88	e.			2		10		ne.	light	light			rainy.
S. E. B. Sutton, N. 23° 00′, W. 126° 00†	30.19	766.8	65	18.3	89	ne.			4		6		ne.	0	0	mod.	nw.	fair.
S. S. Colima, Acapulco, Mexico †	29.93	760.2	75	23.9	90	calm			0		3		calm	0	0			clear.
S. S. Granada, Champerico, Mexico†	29.90	759.4	76	24.4	77	ne.			1		2		ne.	½h'r	½h'r	small		clear.
S. S. San José, Panama, Panama†	29.98	761.5	78	25.6		nw.			2		8 ns		nw.	0	0	light	e.	cloudy.
S. Armenia, N. 25° —′, W 128° 50′*	30.09	764.3	66	18.9	79	ne.			4		7			0	0	mod.	nw.	fair.
S. S. Benledi, N. 25° —′, E. 121° —′*	29.84	757.9	79	26.1	89	se.			1–2		3		wsw.	0	0	sm'h		hazy.
Bk. Bore, Macassar, Celebes Id.	30.23	767.8	85	29.4		ese.			1									
S. Grecian, N. 5° 20′, E. 132° 20′†.	29.88	758.9	80	26.7	96	ssw.			2		9		s.	8 h'r	8 h'r	mod.	sw.	cloudy.
S. Titan, N. 22° 55′, W. 131° 15′*†	30.20	767.1	72	22.2	67	nne.			6		10		ne.	½h'r	½h'r	r'gh	ne.	cloudy.
Bk. Xenia, N. 19° 12′, E. 117° 42′			86	30.0		n.			2		0			0	0	sm'h		clear.
U. S. S. Ranger, N. 14° 29, W. 92° 12′	29.91	759.7	76	24.4	82	ne.			2		2		calm	0	0	sm'h		clear.
District No. 4—South Pacific.																		
H. M. S. Espiegle, S. 18° 08′, E. 178° 26′	29.87	758.7	74	23.3	90	e.			1		4							d. clouds.
H. M. S. Kingfisher, S. 17° 32′, W. 149° 34′	29.94	760.5	77	25.0		s.			1		10							overcast.
H. M. S. Liffey, S. 29° 56′, W. 71° 20	29.99	761.7	56	13.3		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.96	761.0	63	17.2	100	ese.			2–6		9							squally.
U. S. S. Hartford, S. 5° 10′, W. 149° 09′*	29.78	756.4	81	27.2	83	ene.			1–2		2		e.	0	0	sm'h	ne.	clear.
U. S. S. Iroquois, Valparaiso, Chili	30.11	764.8	53	11.7	93	se.			1		2					sm'h		clear.
U. S. S. Lackawanna, S. 42° 36′, W. 129° 13′*	30.44	773.2	54	12.2	74	ene.			3		2		ne.			mod.	ne.	clear.
U. S. S. Onward, Callao, Peru*†	30.08	764.0	64	17.8	83	sw.			2		10		sw.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.92	760.0	66	18.9	79	sw.	6	2.7			10			0	0			cloudy.
U. S. S. Wachusetts, Apia, Upolu Id., Oceania	20.75	755.6	78	25.6	91	se.			1		8		se.			sm'h		cloudy.
S. S. City of Sydney, Sydney, N. S. W *†	30.18	766.6	65	18.3	73	e.			1		7 ns		ese.	0	0			fair.
S. S. Zealandia, Sydney, N. S. W	29.92	760.0	60	15.6	88	e.			4		10							raining.
S. David Crocket, S. 34° 58′, W. 96° 58′*	30.36	771.1	62	16.7	83	ene.			6		6		ene	0	0	long	se.	fair.
H. M. S. Lark, S. 27° 20′, E. 153° 11′	29.90	759.4	68 3	20.2	95	e.			6		10					3	se.	showery.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.69	754.1	88	31.1		s.			2		5	sse.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.70	754.4	90	32.2	73	sw.			2		1							d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.96	761.0	78	25.6	91	sse.			1		1	sse.				2	sse.	blue sky.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.76	755.9	84	28.9	83	ssw.			4		1	w.				1	sw.	blue sky.
H. M. S. Woodlark, Bushire, Persia	29.66	753.4	85	29.4	96	w			2–3		2							misty.
U. S. S. Enterprise, S. 34° 16′, E. 24° 35′ *	30.26	768.6	61	16.1	88	n.			3		0					long	sw.	clear
U. S. S. Juniata, N. 25° 07′, E. 59° 48′	29.63	752.6	85	29.4	96	s.			2		1			0	0	sm'h		clear.
S. S. Salerno, Suez Canal, Egypt †	29.90	759.4	79	26.1										0	0	sm'h		clear.
Bk. Alpheus Marshall, S. 34° 03′, E. 26° 12′*†	30.16	766.1				w.			2		0			0	0	mod.	s.	clear.
S. Annie M. Law, S. 21° 18′ E. 73° 01′*†	30.05	763.3	74	23.3		se.			2		1		se.	0	0	con.	sw.	clear.
S. S. Burswell, N. 21° 41′, E. 37° 44′ *†	29.81	757.2	90	32.2		nnw.			1		0			0	0	sm'h		clear.
Bk. Ceylon, S. 28° 14′, E. 43° 06′ *†	30.26	768.6	74	23.3	81	sw.			4		2		sw.	0	0	long	sw.	clear.
S. Dynomine, S. 37° 08′ E. 28° 40′	30.11	764.8	63	17.2	83	sw.			2		7			mod.	mod.	high	wsw.	misty.
S. S. Malabar, N. 8° 40′, E. 73° 21′						var.					10		sw.	8 h'r	8 h'r	mod.	sw.	raining.
Bk. Pilgrim, Batavia, Java*†	29.90	759.4				calm			0		4		se.	0	0			fair.
S. S. Radnorshire N. 6° 34′, E. 77° 45′*†	29.81	757.2				sw.			6		4		sw.	0	0	mod.	sw.	fair.
S. St. David, S. 24° 59′ E. 98° 12′*†	30.04	763.0	71.3	21.8	95	ne.			4		9		n.	2 h'r	2 h'r	con.	var.	rainy.
S. S. Foscolio, N. 3° 36′ E. 65° 44′*†	29.90	759.4				nnw.			3		8		var.	9 h'r	9 h'r	high	var.	squally.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 14, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.11	764.8	62.2	16.8	76	n.			1		0			0	0	clear	Malaterre.
Algiers			30.06	763.5	64.4	18.0	80	n.			2		6			0	0	cloudy	Thève.
La Galle			30.08	764.0	65.8	18.8	64	ene.			5		3			0	0	pretty fair	Fonfrède.
Tunis			30.10	764.6															Jacques.
Saida			30.09	764.2															Pérès.
Tebessan			30.09	764.3	71.2	21.8	22	se.			1		0			0	0	clear	St. Martin.
Geriville					55.4	13.0	47	nne.			2		5			0.197	5.0	cloudy	Forfert.
Laghouat			30.05	763.3	71.2	21.8	41	e.			2		2			0	0	fair	Abraham.
Biskra			30.10	764.4	80.6	27.0	46	calm			0		5			0	0	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			30.02	762.5	54.2	12.3	83	calm	0	0		4 ck				0	0	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.88	758.9	29.97	761.2	57.0	13.9	85	ese.	3	1.3			9			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.53	750.0	30.06	763.6	70.2	21.2	39	e.			3		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.39	746.5	30.15	765.8	63.1	17.3	58	ne.	12.5	5.6			0			0	0		Dr. Wierzbiski
Eperies	29.22	742.2	30.08	764.1	64.0	17.8	39	n.			4	1 cs		s.		0	0		Julius Mikolik.
Gratz	28.87	733.2	30.10	764.5	64.4	18.0	41	wsw.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.56	725.3	29.94	760.5	67.5	19.7	61	se.			2		10			0.012	0.3		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.2	30.06	763.5	65.1	18.4	60	ene.			2		0			0	0	clear	The Staff.
Lemberg	29.11	739 4	30.09	764.2	61.3	16.3	39	ne.			3		0			0	0		Dr. T. Stanecki.
Neu Schmecks	26.72	678.6	30.02	762 4	60.1	15.6	30	e.			4		0			0	0		Dr. V. von Szontagh.
Pola	29.84	758.0	29.93	760.3	68.2	20.1	48	wnw.			4		0			0	0		I. R. Hydrographic Office.
Szathmar	29.50	749.3	29.96	760.9	70.2	21.2		ne.			3		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.71	754.6	29.98	761.6	65.8	18.8	46	n.			3		0			0	0		Karl Stancel.
Trieste	29.93	760.3	30.03	762.8	70.5	21.4	32	ne.			2		0			0	0		Royal Academy.
Vienna	29.41	746.9	30.11	764.7	66.7	19.3	35	ne.			1		0			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.61	752 1	29.71	754.6	56.0	13.3	57	s.	29	13.0			2			0	0	squally	W. Boswell.
Armagh, Observatory	29.49	749.0	29.71	754.6	58.3	14.6	59	s.	18	8.0			7			0	0	squally	S. Gall.
Bidston, Liverpool Obs'y			29.84	757.9	57.6	14.2	58	nw.	8	3.6			5					d. clouds	John Hartnup.
Bolton, Sharples	29.30	744.2	29.82	757.4	59.8	15.4	60	ssw.	18	8.0			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.44	747.8	29.84	757.9	60.2	15.7	58	s.			1		7			0.01	0.3	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	85.0	29.4	68	ne.			2		3					gloomy	Corpl. W. I. Cull, A. H.C.
Cardington	29.82	757.4	29.92	760.0	59.0	15.0	83	sw.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	29.81	757.2	29.94	760.5	67.5	19.7	62	sw.			1		8					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.66	753.4	29.88	758.9	55.4	13.0	87	sse.			3		7					d. clouds	The Staff.
Fort Napier, Natal	27.68	703.1	29.90	759.4	79.3	26.3	39	ne.			1							blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	87.0	30.6	58	s.			1		3					gloomy	Sergt. C. E. Keane.
Galway, Queen's College	29.58	751.3	29.62	752.3	52	11.1	79	sw.			5		4			0.02	0.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.94	760.5	29.99	761.7	68.7	20.4	91	e.			1		5					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.55	750.6	29.75	755.6	54.3	12.4	64	sw.			4		10					threatening	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.76	755.9	29.93	760.2	60.8	16.0	74	sw.			1		10					drizzling	The Staff.
Guernsey	29.64	752 8	29.94	760.5	53.0	11.7	98	sse.			1		10			blank	blank	foggy	A. Collenette, F. M. S.
Kew, Observatory	29.90	759.4	29.94	760.5	60.3	15.7	76	sw.	8	3.6			9					raining	The Staff.
Leicester, Museum	29.61	752.1	29.87	758.7	57.6	14.2	85	sw.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	63.6	17.6	60	ne.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.09	764.3	78.0	25.6	67	se.			1		4			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.36	745.7	29.88	758.9	54.5	12.5	90	s.			2		9					raining	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.68	753.9	29.91	759.7	56.9	13.8	90	s.			3		10					drizzling	The Staff.
Plymouth	29.81	757.2	29.88	758.9	55.6	13.1	90	s.			1		10					misty	John Merrifield.
Sandwick Manse, Orkneys	29.55	750.6	29.65	753.1	52.8	11.6	97						2					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.71	754.6	29.78	756.4	61.4	16.3	80	ne.			1		10			blank	blank	gloomy	W. H. Lyne.
Sheffield	29.59	751.6	29.87	758.7	59.8	15.4	82	s.			1		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.67	753.6	29.70	754.4	56.3	13.5	63	sw.			5		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.85	758.2	58.9	14.9	59	sw.	8	3.6			8					d. clouds	W. C. Carlisle.
Truro, Royal Institution	29.85	758 2	29.92	760.0	57	13.9	87	se.			6		10					raining	W. Newcombe.
Valencia, Observatory	29.72	754.9	29.74	755.4	54.9	12.7	72	sw.	18	8.0			6					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.65	753.1	30.04	763.0	68.7	20.4	40					1 c		w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.82	757.4	29.86	758.4	44	6.7	55	w.	12	5.4		0	0			0	0	clear	H. J. Cundall, C. E
Chatham, N. B*	29.82	757.4	29.88	758.9	45	7.2	81	w.	7	3.1		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.88	758.9	30.08	764.0	38.8	3.8	67	nw.			1	0	0			0	0	clear	Jas. Smith, M. A.
Dalhousie, N. B	29.80	756 9	29.85	758.2	44.0	6.7		w.			3	0	0			0.170	4.3	blue sky	H. A. Johnson.
Father Point, Quebec*	29.91	759.7	29.93	760.2	38	3.3	75	w.	10	4.5		0	0			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.14	740.1	30.00	762.0	35	1.7	79	nw.	12	5.4		0	0			0	0	clear	James Stewart.
Fredericton, N. B	29.91	759.7	29.98	761.5	43.1	6.2	51	nw.	13	5.8		0	0			0	0	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	28.86	733.0	29.98	761.5	39.0	3.9	100	e.	5	2.2			10 n			0	0	cloudy	Jas. Grant.
Halifax, N. S*	29.79	756.7	29.93	760.2	47	8.3	48	nw.	8	3.6		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.54	750.3	29.94	760.5	41.7	5.4	84	ne.			3	10 cs	0	ne.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.77	756.1	30.11	764.8	44	6.7	80	e.	4	1.8		10 cs	0	sw.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.76	755.9	29.80	756.9	45.8	7.7	80	e.			2	4 ck	0	sw.		0	0	d. clouds	C. H. Rigby.
Montreal, Quebec*	29.89	759.2	30.10	764.5	46	7.8	46	nw.	1	0.4		0	0			inap.	inap.	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.85	758.2	30.10	764.5	37.4	3.0	79	nw.			1	0	0			0.03	0.8	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.36	745.7	30.07	763.8	37	2.8	61	e.	7	3.1		2 cs	2 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.34	745.2	30.04	763.0	44.7	7.1	52	nw.			1	6 c	0	w.		inap.	inap.	fair	J. Dixon, B. A.
Port Dover, Ontario	29.32	744.7	30.02	762.5	42	5.6	74	ne.	6	2.7			10 n			0	0	threatening	H Morgan.
Port Stanley, Ontario	29.33	745.0	29.99	761.7	40	4.4	79	e.	12	5.4			10 n		w.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.09	754.1	30.05	763.3	41	5.0	70	w.	4	1.8		0	0			0.08	2.0	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	29.62	752.3	30.10	764.5	33	0.6	81	calm	0	0		0	0			inap.	inap.	clear	W. H. McIntyre.
St. Andrews, N. B	29.92	760 0	29.97	761.2	42	5.6	61	nw.	8	3.6		0	0			0	0	clear	
St. John, N. B	29.80	756.9	29.96	761.0	44.0	6.7	60	nw.	10	4.5		0	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F	29.54	750.3	29.79	756.7	47	8.3	77	sw.			2		10 n			0.26	6.6	raining	J. Higgins.
St. Pierre, N. F			29.76	755.9	44.6	7.0		w.			2					0.48	12.2		The Commandant
Saugeen, Ontario*	29.28	743.7	30.02	762.5	38	3.3	61	e.	8	3.6			10 s			0	0	cloudy	
Stratford, Ontario	28.68	728.5	29.99	761.7	39.0	3.9	72	e.	14	6.3			10 s			0	0	d. clouds	G. J. Macgregor, M A
Sydney, C. B*	29.77	756.1	29.84	757.9	47	8.3	63	w.	1	0.4		0	0			0.11	2.8	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.69	754.1	30.09	764.3	40	4.4	76	ne.	7	3.1			10 s		w.	0	0	cloudy	Magnetic Observatory.
Windsor, N. S	29.81	757.2	29.91	759.7	45	7.2	50	sw.	8	3.6		0	0			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.93	734.8	30.02	762.5	39.8	4.3	82	ne.	16	7.2			10 s					drizzling	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.94	760.5	30.01	762.2	42	5.6	71	nw.	4	1.8		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
London, Ontario	29.05	737.9	29.98	761.5	38.7	3.7	86	e.			2		10 n					drizzling	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper 0-10	Lower 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.93	760.2	29.96	761.0	86.0	30.0	27	nw.	6.1	2.7		0	4 k			0	0	fine	John Duthie.
Springbok Fontein	27.86	707.6			76	24.4	11	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.25	641.4																	A. Guelny.
Tchang-kia-tchouang	29.76	755.9	29.87	758.7	63.0	17.2	58	se.			1		10			0.039	1.0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.74	755.4	29.76	756.0	66.2	19.0	97	s.	3.8	1.7			10 n		w.	1.728	43.9	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.09	764.2	30.13	765.4	63.9	17.7	66	s.	18	8			2						Oversergent Fischer.
Fanoe	29.99	761.7	30.01	762.2	69.3	20.7	70	ssw.			4		4						Overloerer Lauridsen.
Godthaab, Greenland	29.78	756.3	29.82	757.4	30.9	— 0.6	100	nne.			4		10					foggy	S. Kleinschmidt.
Jacobshavn, Greenland	29.94	760.5	29.99	761.7	33.8	1.0		calm			0		1						
Stykkisholm, Iceland	29.80	756.8	29.84	757.9	31.6	— 0.2	94	ne.			8		2						A. O. Thorlacius.
Thorshavn	29.30	744.1	29.32	744.7	49.8	9.9	89	s.	9	4			10					raining	Overloerer Bergh.
Vestervig	29.91	759.7	30.00	762.0	66.4	19.1	65	ssw.			4		4						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.67	753.7			86.4	30.2		w.	5.1	2.3	0	0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.54	750.4	30.17	766.3	74.5	23.6	73	sse.			1	0	2 k			0	0	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.49	749.0	30.04	763.0	50.4	10.2	81	sw.			1		10 n			0	0	covered	M. Nicot, Director.
Arras, Engineer School	29.76	756.0	30.02	762.4	68.0	20.0	55	ne.			2	ck	0			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.93	760.3	30.01	762.3	69.1	20.6	71	sw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.39	746.6	29.93	760.1	75.7	24.3	39	ssw.			1	0	5kn		sw.	0	0		M. Saillard, Director.
Beauvais, Normal School	29.67	753.6	29.93	760.1	72.0	22.2	56	s.			1		2		s.	0	0	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	29.06	738.0	29.91	759.8	75.2	24.	20	n.			1	0	0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.65	753.2	29.91	759.6	75.4	24.1	88	e.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.40	746.8	29.93	760.3	71.6	22.	66	ne.			1		1		ne.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.74	755.3	29.98	761.5	55.0	12.8	93	sw.			2		10		sw.	0.157	4.0	raining	M. de Kermarée, Dir.
Caen, Normal School	29.84	758.0	29.91	759.8	67.3	19.6	67	ne.			3		5		sw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.60	751.9	29.91	759.8	78.1	25.6	54	s.			1		2		sw.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.43	747.6	29.92	760.0	76.3	24.6	59	sse.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.59	726.2	29.88	758.9	79.2	26.2	29	e.			1	1 c	0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.15	740.3	29.97	761.3	76.5	24.7	31	e.			2		1		e.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.13	739.8	29.95	760.8	72.7	22.6	50	se.			1		0			0	0		Dr. Coulet, Director.
Gap, Normal School	27.45	697.2	29.88	759.0	73.4	23.	74	calm			0	0	2 k		n.	0	0		M. Jeangirard, Director.
Grésasque, du Rhone	29.12	739.7	30.22	767.5	72.7	22.6	41	se.			1		1		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.25	742.9	30.01	762.2	66.6	19.2	61	nw.			1	0	2 k		se	0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.40	721.3	29.90	759.5	74.3	23.5	37	s.			1	0	0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.79	756.6	30.06	763.4	55.4	13.0	76	s.			1		8		s.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.34	745.2	29.88	758.9	78.6	25.9	30	nne.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.86	758.4	29.96	761.0	61.2	16.2	81	ssw.			1		10	calm	sw.	0.067	1.7	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.96	735.5	29.98	761.4	74.3	23.5	32	sse.			3	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.63	752.6	29.93	760.1	73.9	23.3	51	sw.			1		2		s.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.80	756.9	30.07	763.7	64.9	18.3	61	w.			1-2		0			0	0		M. Stephan, Director.
Montlouis	24.89	632.2	29.73	755.2	58.3	14.6	45	sw.	13.0	5.8			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.92	760.0	30.04	763.1	70.2	21.2	54	se.			2		0			0	0	foggy	M. Galzin, Director.
Nancy, Normal School	29.22	742.3	29.97	761.3	77.0	25.0	42	sse.			2		k			0	0		M. Hasse, Director.
Nantes, Observatory	29.80	756.8	29.95	760.7	72.9	22.7	50	se.			1	2 c	k			0	0	slightly cl'dy	M. Larocque, Director.
Perpignan, Observatory	29.92	759.9	30.03	762.7	67.5	19.7	54	e.	5.6	2.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.1			40.1	4.5		s.			1		1		n.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	28.95	735.4	29.91	759.8	73.4	23	43	s.			1	0	0			0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.20	640.1			54.5	12.5	49	se.			2	2 c	0			0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	29.88	758.9	29.91	759.7	74.5	23.6	42	s.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.66	753.4	29.87	758.7	72.7	22.6	52	s.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.90	708.7	29.99	761.8	69.6	20.9	36	se.			1	0	0			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.89	759.3	29.94	760.5	73.4	23.	40	sw.			1		2	s.		0	0	slightly cl'dy	M. Mouillot, Dir.
Saint Maur, Observatory	29.78	756.4	29.94	760.5	77.5	25.3	49	sw.			1		5		s.	0	0		M. Renou, Director.
Toulouse, Observatory	29.31	744.4	30.03	762.8	73.0	22.8	53	sse.			3		0			0	0	clear	M. Baillaud, Director.
Tours	29.74	755.4	29.89	759.3	69.8	21.0	49	se.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.44	747.8	29.94	760.4	76.6	24.8	40	sw.			1					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.78	756.3	29.93	760.1	80.2	26.8	33	sw.	9.8	4.4		0	1 k		w.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.65	727.8	30.07	763.7	65.8	18.8	50	ne.			4		0			0	0		Prof. Jnedt.
Bamberg	29.20	741.7	30.05	763.2	68.9	20.5	44	se.			2	0	1 s			0	0		Prof. Dr. Hoh.
Berlin	30.00	762.1	30.15	765.7	71.6	22.0	40	s.			3		0			0	0		Meteorological Institute.
Breslau	29.71	754.5	30.24	768.1	63.5	17.5	34	e.			1		0			0	0		Royal University Obs'y
Carlsruhe	29.58	751.2	30.02	762.5	72.0	22.2	55	ene.			1		0			0	0		Albert Senz.
Cassel	29.35	745.4	30.06	763.5	72.3	22.4	45	s.			1		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.03	762.8	71.2	21.8	49	ne.			2		0			0	0		Physical Society.
Friedrichshafen	28.63	727.3	30.02	762.5	64.6	18.1	74	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.95	760.8	30.04	763.1	70.2	21.2	52	se.			4		3			0	0		E. Preller.
Kiel	30.04	763.0	30.06	763.4	68.4	20.2	54	se.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.71	754.5	30.11	764.9	69.4	20.8	37	ese.			2		1			0	0		H. Leppig, Asst.
Magdeburg	29.91	759.6	30.09	764.3	69.8	21.0	47	se.			3		1	w.		0	0		Dr. Assmann.
Memel	30.22	767.6	30.27	768.8	58.3	14.6	73	nnw.			3		0						Issermann.
Munich	28.27	718.0	30.14	765.5	65.1	18.4	57	n.			1		0			0.004	0.1		Central Station.
Neufahrwasser	30.25	768.4	30.27	768.8	63.7	17.6	52	ne.			1		0			0	0		A. Lothes.
Neustadt, Palatinate	29.48	748.9	30.01	762.3	72.9	22.7	55	calm			0		0			0	0		Dicknether.
Stuttgart	29.08	738.5	29.93	760.3	71.6	22.0	52	se.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.15	765.9	30.17	766.4	70.9	21.6	61	sse.			2	0	3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.45	748.1	29.84	758.0	53.2	11.8		sw.			1.5		10			0.827	21.0	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.55	750.5	29.60	751.8	86.0	30.0	89	sw.	31.0	13.8			4		wsw.	0	0	d. clouds	
Deesa	29.08	738.6	29.52	749.9	106.8	41.6	12	w.	15.0	6.7			0			0	0	blue sky	
Bombay	29.70	754.5	29.74	755.4	88.0	31.1	70	w.	9.0	4.0			0			0	0	blue sky	
Poona, Yarrowda	27.86	707.7	29.65	753.2	94.8	34.9	30	nw.	19.0	8.5			1		nw.	0	0	d. clouds	
Trichinopoly	29.46	748.3	29.73	755.2	96.6	35.9	39	s.	1.0	0.4			8	nne.	ne.	0	0	d. clouds	
Belgaum	27.41	696.2	29.69	754.2	85.6	29.8	53	ene.	13.0	5.8			2	w.		0	0	d. clouds	
Lahore	28.71	729.2	29.41	747.0	105.8	41.0	18	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.57	725.6	29.41	747.2	103.5	39.7	16	se.	0	0			0			0	0		
Agra	28.91	734.2	29.44	747.6	109.1	42.8	6	sw.	8.0	3.6			0			0	0	blue sky	
Nagpur	28.52	724.5	29.51	749.5	106.0	41.1	12	wsw.	12.0	5.4			0			0	0	blue sky	
Jubbulpore	28.24	717.2	29.52	749.8	104.0	40.0	10	nw.	0.0	2.7			2		nw.	0	0	d. clouds	
Lucknow	29.09	738.9	29.45	748.0	102.4	39.1	28	nne.	1.0	0.4			0			0	0	blue sky	
Allahabad	29.16	740.6	29.45	748.1	106.6	41.4	17	calm	2.0	0.9			2			0	0	d. clouds	
Patna	29.34	745.3	29.52	749.8	96.5	35.8	42	ene.	8.3	3.7			0			0	0	blue sky	
Hazaribagh	27.56	699.9	29.47	748.6	98.4	36.9	14	n.	5.5	2.5			0			0	0	blue sky	
Cuttack	29.43	747.6	29.51	749.6	92.1	33.4	64	wnw.	10.0	4.5			0			0	0	blue sky	
Calcutta, Alipore	29.55	750.6	29.57	751.1	87.8	31.0	73	ssw	5.0	2.2			8	ssw.		0	0	d. clouds	
Dhubri	29.52	749.7	29.64	752.8	74.2	23.4	90	ne.	17.0	7.6			10			0.03	0.8	overcast	
Chittagong	29.58	751.4	29.67	753.7	83.2	28.4	81	se.	9.6	4.3			10			0.01	0.3	drizzling	
Sibsagar	29.40	746.8	29.74	755.5	73.2	22.9	88	ne.	2.0	0.9			10	w.	w.	0.43	10.7	overcast	
Jeypore	28.08	713.3	29.45	747.9	104.7	40.4	17	nw.	6.3	2.8			0			0	0	hazy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.20	716.3	.....	.....	100.5	38.1	24	nw.	8	3.6	.....	5 ck	0	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.92	760.0	77.4	25.2	89	.....	9.1	4.1	.....	.....	10	s.	ese.	0.97	24.6	raining	
ITALIAN.																			
Udine	29.65	753.1	30.05	763.2	69.4	20.8	41	n.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.57	751.1	30.08	763.9	70.7	21.5	40	se.	3.8	1.7	.....	.....	3	nw.	.....	0	0	.....	Prof. G.V.Schiapparelli.
Padua	29.95	760.8	30.06	763.5	66.9	19.4	43	nne.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.17	740.9	30.05	763.2	66.6	19.2	60	n.	3.8	1.7	.....	.....	4	nne.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.87	758.7	30.06	763.5	68.5	20.3	42	sw.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.19	716.0	30.05	763.3	62.8	17.1	62	nnw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.99	761.7	30.04	762.9	61.9	16.6	94	n.	9.8	4.4	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.76	756.0	30.02	762.4	70.9	21.6	26	ne.	.....	.....	6	.....	0	.....	.....	0	0	.....	Prof. Cosmantino Pittei.
Leghorn	29.91	759.7	30.00	761.9	65.5	18.6	59	wnw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.84	757.8	30.01	762.2	69.8	21.0	31	w.	8.1	3.6	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.66	753.4	29.91	759.7	66.6	19.2	46	nw.	17.4	7.8	.....	.....	1	s.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.06	738.1	29.93	760.1	69.1	20.6	73	wnw.	4.3	1.9	.....	.....	4	w.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.81	757.2	30.00	762.1	67.1	19.5	59	se.	.....	.....	4	.....	2	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.77	756.2	30.02	762.5	64.0	17.8	41	ne.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.89	759.3	29.94	760.4	64.6	18.1	44	e.	5.6	2.5	.....	.....	3	w.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.47	748.4	29.97	761.3	69.1	20.6	47	ne.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.30	566.5	.....	.....	36.7	2.6	77	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.31	566.6	.....	.....	47.8	8.8	58	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.94	760.6	29.97	761.5	53.7	12.1	65	calm	.....	.....	0	6 ck	0	.....	.....	0	0	fair	H. Hattori.
Awomori	29.96	761.0	30.00	762.0	47.0	8.3	93	nw.	6.8	3.0	.....	7 cs	0	.....	.....	0	0	cloudy	K. Ogawa.
Hamamatsu	30.02	762.5	30.05	763.2	60.0	15.6	90	calm	.....	.....	0	4 cs	2 s	w.	w.	0	0	fair	
Kagoshima	29.93	760.2	29.94	760.5	68.0	20.0	88	se.	.....	.....	2	.....	10 n	.....	.....	4.381	111.2	raining	G. Miyanonasa.
Kioto	29.83	757.6	30.00	762.0	61.7	16.5	75	s.	6.3?	1.9?	.....	10 cs	0	.....	.....	0.075	1.9	cloudy	M. Tojima.
Miasaka	29.95	760.8	29.98	761.5	67.0	19.4	87	sse.	.....	.....	2	.....	10 n	.....	w.	2.248	57.1	raining	K. Masusaki.
Miyako	29.98	761.5	30.09	764.3	43.2	6.2	98	ne.	inap.	inap.	.....	.....	10 s	.....	.....	0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.68	753.9	29.88	758.9	68.0	20.0	84	se.	1.2	0.5	.....	.....	10 n	.....	.....	0.320	8.1	raining	S. Takehayashi.
Niigata	29.91	759.7	29.95	760.7	54.4	12.4	92	ne.	1.6	0.7	.....	0	0	.....	.....	0	0	.....	M. Morita.
Nobiru	30.07	763.8	30.09	764.2	50.0	10.0	89	se.	4.3	2.0	.....	6 cs	4 s	.....	.....	0	0	covered	H. Midzushina.
Numazu	30.02	762.6	30.06	763.5	58.5	14.7	93	calm	.....	.....	0	10 c	0	.....	.....	0	0	cloudy	R. Kaneda.
Osaka	29.96	760.9	29.97	761.3	62.1	10.7	82	ne.	2.3	1.0	.....	5 cs	5 s	.....	.....	0.090	2.3	cloudy	H. Omura.
Tokei Obs'y, Yeddo	29.98	761.6	30.06	763.5	60.4	15.8	90	se.	11.2	5.0	.....	3 cs	7 ks	.....	s.	0	0	cloudy	The Staff.
Wakayama	29.91	759.8	29.96	761.1	65.3	18.5	77	s.	0.2	0.1	.....	10s;ck	0	w.	.....	0.192	4.9	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.04	763.0	75.0	23.9	74	ene.	9.0	4.0	.....	1 cs	4 ks;ku	.....	ese.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.65	600.7	29.87	758.7	65.3	18.5	65	se.	inap.	inap.	.....	1 c	0	.....	.....	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.28	616.7	29.93	760.2	59.0	15.0	75	n.	1.8	0.8	.....	2 c	0	.....	.....	0	0	dense fog	Prof. M. Leal.
Mazatlan	29.65	753.2	29.91	759.8	69.0	20.6	90	ese.	0.9	0.4	.....	3 cs	0	sw.	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.95	760.8	29.95	760.8	64.8	18.2	.....	wnw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Groningen	29.90	759.5	29.96	760.9	70.7	21.5	.....	s.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	29.95	760.6	29.95	760.6	65.5	18.0	.....	sw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.95	760.6	29.95	760.6	67.5	19.7	64	wnw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	29.91	759.6	29.95	760.8	74.7	23.7	55	sse.	.....	.....	2	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.84	758.0	.....	.....	81.1	27.3	82	n.	0	0	.....	.....	6	.....	.....	0	0	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.82	757.3	29.88	758.9	50.4	10.2	95	s.	18	8	.....	.....	10	.....	.....	0.583	14.8	raining	
Brono	29.74	755.3	29.78	756.3	51.4	10.8	70	sw.	.....	.....	4	.....	9	.....	.....	0.016	0.4	.....	
Christiania	29.89	759.1	30.03	762.8	51.4	10.8	87	s.	7	3	.....	.....	10	.....	.....	0	0	.....	
Glesvær	29.77	756.2	29.80	756.8	39.9	4.4	.....	se.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.69	754.2	29.74	755.4	42.3	5.7	94	calm	.....	.....	0	.....	10	.....	.....	0.657	16.7	rain & fog	
PORTUGUESE.																			
Angra, Azores	30.21	767.4	30.37	771.4	57.0	14.2	69	nnw.	7.4	3.3	.....	.....	5	.....	.....	0.031	0.8	.....	Dr. J. A. Sampaio.
Campo Major	29.00	736.7	29.98	761.5	69.8	21.0	39	ssw.	5.6	2.5	.....	.....	2	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.06	763.4	30.15	765.7	61.3	16.3	88	sse.	3.8	1.7	.....	.....	10	.....	.....	0.079	2.0	rain & fog	Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.3	30.03	762.8	62.8	17.1	71	ssw.	8.1	3.6	.....	.....	8	.....	.....	0.157	4.0	.....	The Staff.
Ponta Delgada, Azores	30.29	769.4	30.30	771.2	61.9	16.6	55	n.	12.5	5.6	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Serra da Estrella	25.25	641.3	30.03	762.7	43.2	6.2	100	ssw.	0.7	0.3	.....	.....	10	.....	.....	0.087	2.2	rain & fog	
RUSSIAN.																			
Akmollinski	28.80	731.5	29.83	757.6	73.4	23.0	41	wsw.	7	3	.....	1 c	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.84	758.0	29.80	758.5	52.5	11.4	71	nw.	4	2	.....	.....	9 ks	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashurada	29.88	759.0	29.79	756.6	74.5	23.0	73	nnw.	18	8	.....	6 ck	0	.....	.....	0	0	.....	
Astrakhan	30.01	762.2	29.93	760.1	79.3	26.3	11	e.	16	7	.....	c	6 s	.....	.....	0	0	light clouds	Capt. Wisganow.
Baku	29.88	758.9	29.83	757.7	68.0	20.0	80	s.	9	4	.....	0	3 ks	.....	.....	0	0	.....	
Barnaul	29.36	745.7	29.84	758.0	65.1	18.4	34	sw.	9	4	.....	.....	2	.....	.....	0	0	light clouds	Meteorological Obs'y
Bielosersk	29.58	751.4	30.04	763.0	63.0	17.2	42	wsw.	11	5	.....	0	5 s.	.....	.....	0	0	.....	
Dorpat	29.97	761.1	30.21	767.2	59.7	15.4	68	wnw.	9	4	.....	.....	10 ks	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.78	731.0	29.69	754.0	77.4	25.2	23	w.	13	6	.....	10c;ck	0	.....	.....	0.075	1.9	light haze	Meteorological Obs'y
Elisawetgrad	29.39	746.4	29.82	757.3	77.4	25.2	40	n.	9	4	.....	0	3 ks	.....	.....	0.010	0.4	.....	
Irkutsk	28.35	720.1	29.99	761.7	48.9	9.4	51	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	
Kasalinsk	29.35	745.4	29.52	749.9	82.4	28.0	27	w.	18	8	.....	.....	10 k	.....	.....	.....	.....	.....	
Kasan	29.01	752.0	29.85	758.3	82.8	28.2	30	wsw.	11	5	.....	c	7 k	.....	.....	0	0	.....	Observatory.
Kem	29.81	757.1	29.86	758.4	57.4	14.1	55	w.	22	10	.....	.....	9 k	.....	.....	0	0	heavy cld's.	
Kertch	29.71	754.5	29.73	755.1	71.4	21.9	53	calm	0	0	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	29.28	743.6	29.90	759.4	63.5	17.5	63	n.	11	5	.....	0	8 ks	.....	.....	0.020	0.5	hazy	Observatory.
Koslov	29.47	748.5	29.98	761.5	82.6	28.1	23	ssw.	2	1	.....	5 c	0	.....	.....	0	0	.....	
Libau	30.25	768.4	30.28	769.0	53.8	12.1	76	s.	6	3	.....	.....	8	.....	.....	0	0	.....	E. Quass.
Lugan	29.55	750.6	29.72	755.0	83.7	28.7	19	ene.	45	20	.....	.....	5	.....	.....	0	0	light clouds	Meteorological Obs'y.
Moscow	29.93?	761.2?	30.43?	772.9?	72.1	22.3	45	ese.	11.2	5.0	.....	0	2 s	.....	.....	0.008	0.2	.....	Meteorological Obs'y
Nikolaiev	29.71	754.7	29.79	756.6	82.6	28.1	57	calm	0	0	.....	2 ck	0	.....	.....	0	0	.....	Capt. Kardakow.
Nikolaievsk-on-the-Amoor	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	29.65	753.0	29.79	756.0	67.3	19.6	44	calm	0	0	.....	0	2 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.60	751.9	29.93	760.3	84.9	29.4	8	ne.	2.2	1.0	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.80	756.8	29.99	761.7	55.9	13.3	60	wsw.	22	10	.....	.....	10	.....	.....	0	0	light clouds	Dr. Bergmann.
Pinsk	29.63	752.5	30.12	765.0	63.9	17.7	43	n.	22	10	.....	0	7 ks	.....	.....	0	0	.....	
Poti	29.75	755.7	29.78	756.5	60.8	16.0	93	w.	4	2	.....	0	5 ks	.....	.....	0	0	.....	
St. Petersburg	30.13	765.2	30.15	765.8	47.8	8.8	80	nw.	13	6	.....	.....	10 s;n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.50	698.4	29.85	758.1	76.8	24.9	32	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.28	743.6	29.90	759.5	73.9	23.3	39	nw.	9	4	.....	.....	3	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.54	750.4	29.76	756.0	64.2	17.9	75	nw.	7	3	.....	0	5 ks	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.66	753.4	30.11	764.7	66.9	19.4	50	n	22	10		0	8 ks			0	0		
Tashkend	28.26	717.8	29.84	757.9	77.9	25.5	23	calm	0	0		0	2 s			0	0		Terch, A. M.
Tiflis	28.43	722.0	29.78	756.4	73.8	23.2	48	se.	9	4			9 ks			0.020	0.5		Physical Observatory.
Vernoe	27.42	696.5	29.86	758.5	63.0	17.2	46	se.	18	8		0	7 n			0.016	0.4		
Viatka	29.22	742.2	29.83	757.8	62.4	16.9	59	wnw.	9	4			0			0.008	0.2		
Warsaw	29.80	757.0	30.22	767.6	63.7	17.6	32	ene.	9	4		0	0			0	0		Astronomical Obs'y.
Yeniseisk	29.48	748.9	29.78	756.4	34.3	1.3	81	w.	11	5			10			0.169	4.3	snowing	M. O. Marks.
SCOTTISH.																			
Monach Lt			29.55	750.6	51	10.6	93	s.			6	5	5	s.		0.01	0.3	d. clouds	J. Youngclause
North Unst			29.59	751.6				s.			4	0	5						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.99	761.8	30.10	764.4	66.2	19.0	50	s.	3.6	1.6		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.90	759.5	29.96	761.0	70.9	21.6	59	nw	3.1	1.4		2	0	w.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.04	686.8	29.91	759.6	67.6	19.8	37	sw.	5.4	2.4		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.0	29.96	760.9	71.1	21.7	48	sw.	12.1	5.4		0	6			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.88	759.0	30.03	762.8	72.3	22.4	63	e.	3.1	1.4		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.13	740.0	30.01	762.2	54.3	12.4	87	n.	6.5	2.9		10 kn	6 n	s.	sw.	0.449	11.4	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.03	737.3	29.92	760.0	55.6	13.1	80	sw.	8.7	3.9			10			0.425	10.8	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	761.1	30.03	762.8	76.3	24.6	83	e.	5.6	2.5		1cs;ck	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758 2	29.91	759.6	81.3	27.4	86	ese.	4.9	2.2		3 c	3 ks			0.512	13.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.9	30.09	764.3	64.8	18.2	78	w.	9.8	4.4		0	2		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.93	760.2	30.02	762.5	80.2	26.8	85	calm	0	0		0	1 k		s.	0	0	clear	Enrique Gadea, Chf Eng'r.
SWEDISH.																			
Haparanda	29.85	758.3	29.89	759.3	43.9	6.6	71	s.			4		0			0	0		
Umea	29.86	758.4	29.91	759.7	56.8	13.8	67	s.			4		1			0	0		
Hernosand	29.86	758.4	29.91	759.7	56.5	13.6	62	ssw.			2		1			0	0		
Stockholm	29.97	761.2	30.15	765.7	60.1	15.6	67	sw.			2		1			0	0		
Wisby	30.09	764.3	30.15	765.8	57.2	14.0	71	sw.			4		0			0	0		
Sub-series.																			
Upsala	29.98	761.5	30.07	763.7	62.4	16.9	69	wsw.	16.8	7.5			6		wsw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.63	727.1	30.02	762.4	65.5	18.6	62	n.			2		1			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			29.81	757.2	59.7	15.4	73	n.	17	7.5			10		ne.	0.087	2.2		The Observatory.
Valona			29.97	761.3	71.1	21.7		ne.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.81	757.1	74.3	23.5	58	w.			1		1 k		w.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.08	764.0	30.16	766.1	49.4	9.7	55	sw.	4	1.8		3 c	0	w.		0	0	clear	J. O. Barnes.
Alpena, Michigan	29.32	744.7	29.98	761.5	37	2.8	72	e.	16	7.2		10 cs	0			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.97	634.2	29.79	756.7	35	1.7	72	ne.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.15	689.6	29.99	761.7	40	4.4	82	e.	2	0.9			10 s		e.	0.07	1.8	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.84	732.5	30.01	762.2	66.5	19.2	93	s.	7	3.1		0	9 s;k			0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.12	765.0	30.13	765 3	50	10 0	72	se.	17	7.6		10 ck	0			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.86	758.4	30.05	763.3	68	20.0	87	nw.	1	0.4		8 ck	0	w.		0	0	cloudy	John Healy.
Baltimore, Maryland	30.12	765.0	30.17	766.3	51	10.6	52	ne.	7	3.1			10 s			0	0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	30.12	765.0	30.14	765.5	49.7	9.8	64	e.	14	6.3		10 cs	0	w.		0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.89	759.2	29.91	759.7	32.1	0.1		n.	5	2.2			10 n			0.03	0.8	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.26	717.8	29.82	757.4	40.0	4.4	100	n.	11	4.9			10 n		ne.	1.21	30.7	light rain	A. Pritchard.
Benton, Fort, Montana	27.16	689.9	29.95	760.7	40	4.4	100	calm	0	0			10 n		se.	0.54	13.7	light rain	S. Wheaton.
Billings, Montana	26.71	678.4	29.89	759.2	35	1.7	100	ne.	4	1.8			10 n			0.09	2.3	light rain	T. Gibson.
Bismarck, Dakota	28.07	713.0	29.86	758 4	41	5.0	59	n.	15	6.7		10 cs	0			0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.10	764.5	30.13	765.3	48	8.9	71	n.	7	3.1		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.09	688.1	29.93	760.2	35	1.7	89	w.	1	0.4			10 s			0	0	cloudy	J. Kenealy.
Boston, Massachusetts	29.96	761.0	30.12	765.0	50.0	10.0	52	nw.	8	3.6		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.72	754.9	29.76	755 9	77.0	25.0	85	s.	12	5.4		3 c	0			0	0	clear	M. McCarty.
Buffalo, New York	29.30	744.2	30.04	763.0	41	5.0	66	ne.	7	3.1			10 s			0	0	cloudy	W. Finn.
Buford, Fort, Dakota	28.02	711.7	30.00	762.0	42	5.6	60	ne.	8	3.6			10 s			0.06	1.5	cloudy	F. A. Mellen.
Burlington, Vermont	29.82	757.4	30.11	764.8	43.6	6.4	51	n.	2	0.9		0	0			0	0	clear	D. N. Farnell.
Cairo, Illinois	29.35	745.5	29.75	755.6	71.7	22.1	70	s.	16	7.2		0	0			inap.	inap.	clear	W. H. Ray.
Cape Henry, Virginia	30.08	764.0	30.10	764.5	59	15.0	87	e.	4	1.8			10ks;hs		w.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.09	764.3	30.12	765.0	53.0	11.7	66	ne.	19	8.5			10 s		n.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.33	745.0	30.01	762.2	42	5.6	82	n.			1	0	0			0.24	6.1	clear	J. J. McLean.
Cedar Keys, Florida	30.03	762.7	30.05	763.3	80	26.7	79	s.	13	5.8		0	7 k		s.	0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.00	762.0	30.05	763.3	75.0	23.9	90	sw.	10	4.5		4 ck	3 ks	sw.	sw.	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.16	740.7	30.00	762.0	68.0	20.0	73	sw.	1	0.4		6 ck	sk.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.15	740.4	29.96	761.0	64.0	17.8	84	ne.	2	0.9		4 ck	0	w.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	23.87	606.3	29.74	755.4	30.2	1.0	81	n.	6	2.7			10 s			0.01	0.3	cloudy	E. McGovern.
Chicago, Illinois	28.90	734.0	29.60	751.8	48.4	9.1	83	se.	12	5.4		2 c	7 s	w.	sw.	0.73	18.5	cloudy	John Laurens.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	54	12.2	86	ne.	8	3.6			10k;hz			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.12	739.0	29.78	756.4	60.0	15.6	65	se.	8	3.6		5 ck	0	sw.		inap.	inap.	fair	L. Dunne.
Cleveland, Ohio	29.14	740.1	29.87	758.7	46.7	8.2	57	se.	13	5.8			10 s		w.	0.01	0.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.00	711.2	29.79	756.7	66	18.9	90	s.	6	2.7		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	28.97	735 8	29.81	757.2	52	11.1	59	e.	11	4.9			10 s		sw.	0.02	0.5	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.90	708.6	29.80	756.9	64.6	18.1	84	calm	0	0		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	28.75	730.2	29.39	746.5	52	11.1	86	e.	17	7.6			10 ks		sw	0.91	23.1	cloudy	R. R. Martin.
Davis, Fort, Texas	28.09	637.3	29.81	757.2	51	10.6	64	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.24	717.3	29.99	761.7	43	6.1	76	sw.	1	0.4			10 s			0.01	0.3	cloudy	D. Moore.
Deadwood, Dakota	25.30	642.0	29.82	757.4	32	0.0	100	ne.	4	1.8			10 n			0.24	6.1	light snow	F. Willson.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	52	11.1	72	e	22	9.8			10 s		se.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.56	623.8	29.72	754.9	42.0	5.6	76	calm	0	0			10 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	28.52	724.4	29.41	747.0	50	10.0	93	w.	10	4.5			10 s		w.	2.08	52.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.17	740.9	29.87	758.7	46.0	7.8	77	e.	16	7.2			10 s			0.01	0.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.18	690.4	29.73	755.1	45	7.2	76	n.	2	0.9		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	28.78	731.0	29.48	748.8	44.8	7.1	93	e.	6	2.7			10 s			1.31	33.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.12	739.6	29.87	758.7	40	4.4	73	ne.	31	13.9		0	8 s		ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.00	736.6	29.80	756.9	75.2	24.0	68	se.	5	2.2		5 cs	0			0	0	fair	F. Belford.
Eagle Rock, Idaho	25.11	637.8	29.79	756.7	38	3.3	76	calm	0	0		0	5 s		sw.	0	0	fair	H. R. Boynton.
Eastport, Maine	29.92	760.0	29.99	761.7	44.0	6.7	56	nw.	10	4.5		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.05	687.1	29.75	755.6	48	8.9	71	calm	0	0		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.23	666.2	29.87	758.7	57.0	13.9	49	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.23	742.4	29.95	760.7	44	6.7	76	se.	15	6.7			10 n			inap.	inap.	light rain	C. A. Shaw.
Escanaba, Michigan	29.23	742.4	29.89	759.2	41.5	5.3	61	e.	12	5.4		2 cs	8 s	se.	se.	0	0	cloudy	George Heathcote.
Galveston, Texas	29.82	757.4	29.86	758.4	76	24.4	90	s.	12	5.4		2 c	7 ks		sw.	0	0	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.08	738.6	29.74	755.4	42.0	5.6	92	ne.	29	13.0			10 n		ne.	0.72	18.3	light rain	J. E. Mueller.
Grant, Fort, Arizona	25.15	638.8	29.76	755.9	50.5	10.3	33	n.	6	2.7		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.04	763.0	30.06	763.5	67	19.4	90	se.	8	3.6		0	9 k		nw.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.81	655.6	29.98	761.5	40	4.4	73	sw.	5	2.2			10 s		calm	0.07	1.8	cloudy	N. C. Smith.
Huron, Dakota	28.32	719.3	29.67	753.8	40.2	4.6	85	n.	14	6.3			10 n			1.33	33.8	light rain	S. W. Glenn.
Indianapolis, Indiana	28.85	732.8	29.64	752.8	57.0	13.9	80	se.	11	4.9		0	8 s;ks		s;sw	0.12	3.0	clearing	C. F. R. Wappenhans.
Indianola, Texas	29.80	756.8	29.83	757.7	70.0	24.4	85	s.	5	2.2		5 cs	3 ks	sw.	s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.56	725.4	29.71	754.6	70	21.1	59	sw.	6	2.7		0	0			0.01	0.3	clear	D. J. Carr.
Jacksonville Florida	30.03	762.7	30.07	763.8	77.0	25.0	79	s.	11	4.9		4 cs	3 k		sw.	0	0	fair	J. W. Smith.

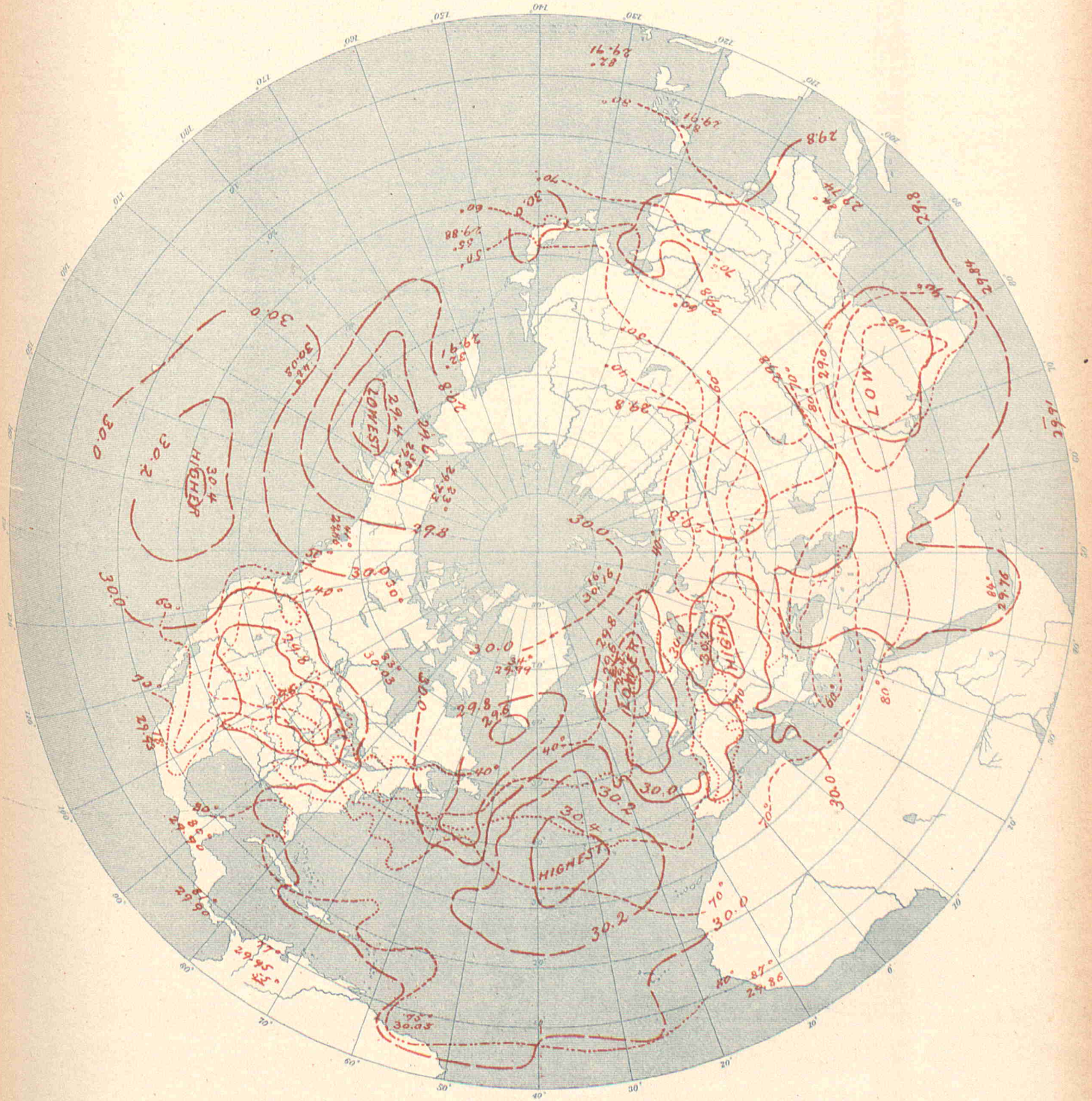
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.52	699.0	29.97	761.2	37	2.8	100	calm	0	0			10 n			0.42	10.7	light rain	W. B. Lamar.
Keokuk, Iowa	28.79	731.3	29.44	747.8	61.0	16.1	84	sw.	17	7.6		9 k	0	sw.		0.74	18.8	cloudy	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	82.0	27.8	74	e.	3	1.3		2 c	1 k	w.	e.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.06	763.5	30.08	764.0	64	17.8	84	s.	6	2.7		0	7ks;hs		sw.	0.06	1.5	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	28.93	734.8	29.95	760.7	62.2	16.8	76	se.	2	0.9		1 k	0	sw.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	28.77	730.7	29.53	750.0	45	7.2	76	ne.	14	6.3			10 s		ne.	0.70	17.8	cloudy	S. C. Emery.
Leavenworth, Kansas	28.70	729.0	29.58	751.3	52	11.1	72	w.	8	3.6		3 k	0	w.		1.62	41.1	fair	A. W. Brown.
Lewiston, Idaho	29.11	739.4	29.95	760.7	51.5	10.8	86	calm	0	0		7 k	3 s	sw.		0.05	1.3	cloudy	W. Bell.
Little Rock, Arkansas	29.43	747.5	29.74	755.4	70	21.1	78	s.	18	8.0			10 k		s.	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.62	752.3	30.02	762.5	54	12.2	86	w.	6	2.7			10 s			0.01	0.3	cloudy	T. S. Collins.
Louisville, Kentucky	29.23	742.4	29.78	756.4	60.5	15.8	86	sw.	19	8.5			10 n		sw.	0.23	5.8	thund'r st'm	L. M. Dey.
Lynchburg, Virginia	29.36	745.7	30.04	763.0	60	15.6	39	ne.	3	1.3		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.30	744.2	29.95	760.7	39.2	4.0	82	se.	17	7.6		0	8 s		se.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.04	763.0	30.05	763.3	71.0	21.7	90	s.	9	4.0		8 ck	0	w.		0.03	0.8	cloudy	William Daly.
Maginnis, Fort, Montana	25.52	648.2	29.93	760.2	32	0.0	81	ne.	4	1.8			10 n		ne.	0.12	3.0	light snow	F. Burke.
Marquette, Michigan	29.21	741.9	29.93	760.2	38	3.3	54	ne.	4	1.8		8 c	0			0	0	cloudy	E. H. Thompson.
Memphis, Tennessee	29.47	748.5	29.80	756.9	72	22.2	82	s.	12	5.4		0	4 s			0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	28.94	735.1	29.68	753.9	40	4.4	89	se.	16	7.2			10 s		se.	0.50	12.7	threatening	W. Line.
Missoula, Fort, Montana	26.64	676.6	29.94	760.5	48	8.9	66	nw.	10	4.5			10 s			0.14	3.6	threatening	J. H. Young.
Mobile, Alabama	29.94	760.5	29.98	761.5	74.6	23.7	82	s.	4	1.8		6 cs	1 ks	sw.	s.	0	0	fair	C. A. Read.
Montgomery, Alabama	29.74	755.4	29.96	761.0	69	20.6	69	sw.	2	0.9		3 k	0	w.		0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.84	732.5	29.82	757.4	37	2.8	82	ne.	12	5.4			10 s		n.	0	0	cloudy	H. Bessaut.
Mt. Washington, N. H.	23.66	601.0	29.84	757.9	14.0	−10.0	97	nw.	32	14.3		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.26	743.2	29.82	757.4	70.0	21.1	66	sw.	6	2.7		4 ck	0	sw.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.02	762.5	30.14	765.5	47.5	8.6	56	n.	8	3.6		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.11	764.8	30.16	766.1	55	12.8	39	ne.	2	0.9		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.89	759.2	29.94	760.5	73.5	23.1	87	s.	3	1.3		0	9 ks		sw.	0	0	cloudy	H. C. Smyth.
New York, New York	29.98	761.5	30.16	766.1	50	10.0	39	e.	9	4.0		4 cs	5 s			0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	30.06	763.5	30.09	764.3	60	15.6	81	ne.	2	0.9			10k;hs		w.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	26.84	681.7	29.71	754.6	38.6	3.7	84	nw.	16	7.2			10 s			0.54	13.7	cloudy	E. F. Brady.
Olympia, Washington T'y	30.05	763.3	30.09	764.3	47.0	8.3	93	sw.	4	1.8			10 s			0.15	3.8	cloudy	J. Dascomb.
Omaha, Nebraska	28.26	717.8	29.42	747.3	48.0	8.9	89	w.	22	9.8			10 s			1.81	46.0	cloudy	A. Pollak.
Oogiamie, Alaska	29.71	754.6	29.73	755.1	22.5	−5.3	100	nne.	16	7.2			10 n			0.09	2.3	heavy snow	P. H. Ray.
Oswego, New York	29.78	756.4	30.11	764.8	45.5	7.5	64	s.	5	2.2		0	9 k		nw.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.30	744.2	29.85	758.2	72.0	22.2	90	s.	12	5.4		0	7 ks		s.	inap.	inap.	fair	L. M. Pindell.
Pensacola, Florida	29.97	761.2	30.00	762.0	76.2	24.6	76	s.	12	5.4			10 s		sw.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.06	763.5	30.16	766.1	48.5	9.2	77	ne.	7	3.1		10 ck;cs	0	w.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.61	447.3	29.67	753.6	12	−11.1	87	nw.	22	9.8		0	0			0	0	clear	H. Hall.
Pioche, Nevada	23.84	605.5	29.76	755.9	36.0	2.2	82	nw.	1	0.4		10 cs	0			0	0	cloudy	F. R. Day.
Pittsburg, Pennsylvania	29.17	740.9	29.97	761.2	50.0	10.0	61	se.	2	0.9			10 s		w.	inap.	inap.	cloudy	W. A. Reid.
Poplar River, Montana	27.83	706.9	29.95	760.7				se.			1		10 s			0.19	4.8	cloudy	W. D. Maxwell.
Port Huron, Michigan	29.22	742.2	29.90	759.4	40.0	4.4	89	e.	6	2.7			10 s			0.02	0.5	cloudy	M. H. Perry
Portland, Maine	30.02	762.5	30.07	763.8	48.0	8.9	42	n.	6	2.7		0	hz.			0	0	clear	W. W. Eichelberger
Portland, Oregon	30.02	762.5	30.10	764.5	42.0	5.6	83	s.	3	1.3		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					70	21.1	79	s.	6	2.7			10 k		s.	0.02	0.5	cloudy	F. P. Chaffee.
Prescott, Arizona	24.63	625.6	29.73	755.1	45.0	7.2	56	s.	7	3.1		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass.	30.08	764.0	30.11	764.8	47.5	8.6	56	nw.	10	4.5		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	75.5	24.2	79	se.	11	4.9		8 c	0	w.		0.21	5.3	cloudy	W. J. Evans.
Red Bluff, California	29.66	753.4	30.01	762.2	45	7.2	93	nw.	5	2.2		0	6 ks		s.	0.03	0.8	fair	J. R. Williams.
Rochester, New York	29.43	747.5	30.09	764.3	39	3.9	73	s.	5	2.2		10 k	sk.			0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.53	750.0	30.08	764.0	38.2	3.4	85	calm	0	0		0	8 s		s.	0.01	0.3	cloudy	J. J. Nanry.
Sacramento, California	29.92	760.0	30.00	762.0	46.5	8.1	86	se.	3	1.3			8 s			0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.00	736.6	29.60	751.8	62.2	16.8	100	s.	22	9.8		10s;hz	0			0.25	6.3	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.51	749.5	29.54	750.3	38	3.3	100	ne.	4	1.8			10 s			inap.	inap.	threatening	A. P. Leavitt.
St. Paul, Minnesota	28.78	731.0	29.62	752.3	42.0	5.6	82	e.	16	7.2			10 s		e.	0.13	3.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.07	738.4	29.93	760.2	37	2.8	72	ne.	5	2.2		3 cs	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah																			J. Craig.
San Antonio, Texas	29.13	739.9	29.83	757.7	74	23.3	82	s.	1	0.4			10 s		s.	0	0	cloudy	J. H. Davis.
San Diego, California	29.92	760.0	29.99	761.7	53.3	11.8	67	sw.	4	1.8		2 k	8 s	w.	sw.	0.01	0.3	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.12	765.0	30.15	765.8	47.0	8.3	63	ne.	10	4.5		8 k	0	w.		0	0	cloudy	B. A. Blundon.
Sanford, Florida	30.02	762.5			77	25.0	84	s.	4	1.8		7 k	0	sw.		0	0	fair	J. B. Marbury.
San Francisco, California	29.96	761.0	30.03	762.7	48	8.9	71	w.	7	3.1			9 s		w.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.14	587.7	29.75	755.6	41	5.0	70	e.	1	0.4		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.97	761.2	30.06	763.5	78	25.6	74	sw.	10	4.5		2 ck	4 k		sw.	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.32	668.5	29.92	760.0	38	3.3	92	nw.	4	1.8			10 k		n.	0.18	4.6	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.58	751.3	29.82	757.4	70.8	21.6	87	s.	4	1.8			9 ks		s.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.49	723.6	29.71	754.6	52	11.1	66	ne.	4	1.8		0	0			inap.	inap.	clear	W. M. Mattingly.
Sitka, Alaska	29.80	756.9	29.86	758.4	41	5.0	88	nw.	15	6.7			10 s		nw.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.22	742.2	29.69	754.1	71.0	21.7	68	calm	0	0		0	3 ks		sw.	inap.	inap.	clear	J. B. Campbell.
Smithville North Carolina	30.02	762.5	30.06	763.5	73	22.8	90	sw.	6	2.7		5 cs	0	nw.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	29.99	761.7	40	4.4	82	ne.	1	0.4		0	0			0.05	1.3	clear	John F. Hemenway.
Springfield, Illinois	28.87	733.3	29.54	750.3	60	15.6	78	s.	14	6.3		1 cs	3 s	sw.	sw.	0.18	4.6	fair	T. B. Jennings.
Springfield, Missouri	28.23	717.0	29.65	753.1	68	20.0	87	sw.	12	5.4		0	5 ks		sw.	1.17	29.7	fair	J. H. Bryce.
Starkville, Miss.	29.45	748.0	29.92	760.0	70	21.1	84	s.	10	4.5		4 k	3 s	w.	sw.	0	0	fair	C. Dill.
Stevenson, Fort, Dakota	28.09	713.5	29.92	760.0	39	3.9	73	ne.	20	8.9		7c;cs	0	nw.		0	0	fair	A. Schneider.
Stockton, Fort, Texas	26.85	682.0	29.86	758.4	53	11.7	86	sw.	3	1.3		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.07	763.8	30.12	765.0	43.0	6.1	74	nw.	13	5.8		3 c	0	w.		0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.18	690.4	29.85	758.2	47	8.3	58	e.			1	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.13	739.9	29.81	757.2	48	8.9	56	e.	11	4.9			10 s		sw.	inap.	inap.	threatening	A. Buell.
Tucson, Arizona	27.48	698.0	29.82	757.4	49	9.4	58	se.	1	0.4		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.18	741.2	29.21	741.9	38	3.3	82	s.	6	2.7			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					48	8.9	52	sw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.66	753.4	29.90	759.4	68.5	20.3	91	se.	11	4.9		0	1 k		se.	0	0	clear	James Kenealy.
Visalia, California	29.57	751.1	29.94	760.5	47.0	8.3	80	nw.	6	2.7		0	1 s		nw.	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.34	618.2	29.82	757.4	42.0	5.6	93	ne	4	1.8			10n;ks		e.	0.32	8.1	threatening	T. M. Ambler.
Washington, D. C.	30.04	763.0	30.15	765.8	50.3	10.2	65	n.	5	2.2			10 s		nw.	0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.84	656.3	29.69	754.1	43.5	6.4	84	e.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.53	750.0	30.13	765.3	48.8	9.3	56	e.	1	0.4			10 s			0	0	threatening	B. F. Hough.
Wilmington, N. Carolina	30.00	762.0	30.06	763.5	72	22.2	90	sw.	5	2.2		7 ck	0			0	0	fair	Samuel A. Haney.
Winnemucca, Nevada	25.52	648.2	29.87	758.7	32.5	0.3	70	s.	5	2.2		0	5 s			0	0	fair	J. Grover.
Yankton, Dakota	28.27	718.0	29.55	750.6	42	5.6	83	n.	3	1.3			10 ks			2.39	60.7	cloudy	J. H. Atfield.
Yuma, Arizona	29.70	754.4	29.85	758.2	55.0	12.8	62	ne.	4	1.8		0	hz.			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			55.0	12.8	83	calm	0	0		20;ck	0	sw.		0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.01	762.2			73	n.	1	0.4		1 c	0			0.01	0.3	clear	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.05	763.3	75	23.9	95	se.			2		8 ps		e.	1.370	34.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.95	760.7	77	25.0	94	calm			0		5 k		s.	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79	26.1	92	ne.			1		5 ks		ne.	0.25	6.3	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
Santiago de Cuba, W. I.	29.98	761.5	30.00	762.0	79	26.1	74	nw	5	2.2		0	0			0	0		R. Mason.
York Factory, B. A.	29.97	761.2	30.03	762.7	32.5	0.3	94	sw.	10	7.2		1 c	0	sw.		0	0		Forteseque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
H. M. S. Alexandra, Malta, Mediterranean	30.02	762.5	68	20.0	51	calm			0		0							blue sky.
H. M. S. Dido, Barbadoes, W. I.	30.04	763.0	81	27.2		se.			1–3		7	e.				2	sse.	showery.
H. M. S. Flamingo, N 31° 20′ W. 66° 10′	30.06	763.5	72	22.2	90	nne.			3		0					1	nne.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.81	757.2	71	21.7	90	nne.			2		0							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.03	762.7	64.5	18.1	81	ese.			2		0							misty.
H. M. S. Rocket, N. 38° 32′, W. 28° 38′	30.43	772.9	66	18.9	68	nne.			3		3							squally.
H. M. S. Tyne, Balize, British Honduras	29.90	759.4	82	27.8	83	e.			2		3					1	e.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	29.92	760.0	49	9.4	71	nnw.			2		0							blue sky.
U. S. Navy Yard, Pensacola, Fla.	30.02	762.5	75	23.9	90	sw.	4	1.8			8		sw.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H.*	30.03	762.7	45	7.2	61	nw.	8	3.6			0			0	0			clear.
U. S. S. Alliance, Norfolk, Va	30.06	763.5	62	16.7	83	calm			0		10			0	0			cloudy.
U. S. S. Colorado, New York, N Y	30.13	765.3	50	10.0	45	n.	2	0.9			8		calm	0	0			cloudy.
U. S. S. Franklin, Norfolk, Va	30.08	764.0	61	16.1	88	nnw.	2	0.9			10		wnw.	0	0			cloudy.
U. S. S. Jamestown, N. 39° 13′, W. 72° 37′	30.02	762.5	50	10.0	65	ene.			5		8		ne.			sm'h	ne.	cloudy.
U. S. S. Kearsarge, Hampton Roads, Va	30.10	764.5	64	17.8	82	nne.			2		10							cloudy.
U. S. S. Lancaster, N. 55° 45′, E. 15° 49′	30.22	767.6	46	7.8	92	ese.			3		2		calm					hazy.
U. S. S. Michigan, Erie, Pa	29.92	760.0	44	6.7	84	se.			2		10		s.					raining.
U. S. S. Minnesota, New York, N. Y.	30.18	766.6	52	11.1	53	nne.			3		8		sw.					fair.
U. S. S. New Hampshire, Newport, R. I.	30.09	764.3	52	11.1	60	nne.			2		0					sm'h		clear.
U. S. S. Portsmouth, Long Island, N. Y.	30.21	767.3	52	11.1	93	nne.			2		0					sm'h		clear.
U. S. S. Powhatan, N. 11° 22′, W. 75° 50′	29.89	759.2	83	28.3	96	ene.			2		5					mod.	e.	hazy.
U. S. S. Quinnebaug, Cape Palmas, Liberia, Africa	29.87	758.7	84	28.9	83	s.			2		5		sw.			sm'h	sw.	fair.
U. S. S. Saratoga, N. 34° 15′, W. 70° 37′	30.14	765.5	68	20.0	90	calm			0		2		calm			sm'h		fair.
U. S. S. St. Louis, League Island, Pa.	30.14	765.5	48	8.9	56	ne.	5.4	2.4			10			0	0			cloudy.
U. S. S. Swatara, Belize, British Honduras†	29.89	759.2	81	27.2	91	se.			3		5		se.	0	0			fair.
U. S. S. Tennessee, Fort Monroe, Va.	30.11	764.8	65	18.3	73	sse.	3	1.3			10			0	0			cloudy.
U. S. S. Vandalia, Hampton Roads, Va.	30.11	764.8	63	17.2	89	n.			1		8		calm					fair.
U. S. S. Wabash, Boston, Mass.	30.11	764.8	52	11.1	66	nw.	3	1.3			0			0	0			clear.
U. S. S. Yantic, Hampton Roads, Va.	30.10	764.5	63	17.2	83	se.			0–1		10							cloudy.
Commewyne, N. 39° 05′, W. 40° 47′	30.46	773.7	64.3	17.9	66	sse.			4		4							d. clouds.
S. S. British Prince, N. 48° 53′, W. 21° 12′†	30.05	763.3	50	10.0		nnw.			5		3		nnw.	3 h'r	3 h'r	mod.	wnw.	clear.
S. S. Illinois, Liverpool, Eng.*	29.80	756.9	62	16.7		w.			1		5		wsw.					fair.
S. S. Ohio, N. 50° 53′, W. 13° 38′ †	29.81	757.2	52	11.1	86	wnw.			1		8 ?		w.	0	0	mod.	w.	clear?
S. S Pennsylvania, N 38° 50′, 72° 52′ †	30.09	764.3	54	12.2		ne.			2		3		ene.			sm'h		fine.
S. S. Circassian, Montreal, Canada	30.08	764.0	44	6.7	76	nw.			1		0			0	0			blue sky.
S. S. Grecian, N. 49° 09′, W. 66° 47′	29.88	758.9	49	9.4	85	wsw.			5		7		wsw.	0	0			cloudy.
S. S. Nova Scotian, N. 42° 28′, W. 68° 43′	30.19	766.8	46	7.8		se.			2		0					sm'h		clear.
S. S. Polynesian, Quebec, Canada	30.02	762.5	42	5.6		ssw.			2		6		nw.	0	0			fair.
S. S. Manitoban, N. 47° 08′, W. 51° 55′	29.83	757.7	40	4.4	82	sw.			3		3		w.	2 h'r	2 h'r	sm'h	w.	hazy.
S. S. Scandinavian Quebec, Canada	29.98	761.5	54	12.2		nw.			3					0	0			blue sky.
S. S. Sardinian, N 41° 08′ W. 61° 51′	29.92	760.0	50	10.0		wnw.			4		0			0	0	sll't	wnw.	clear.
S. S. Jason, N. 47° 37′, W. 17° 32′			51.8	11.0		nne.			4		7 n					5	n.	raining.
S. S. Alvo, N. 24° 07′, W. 74° 20′	30.09	764.3	77	25.0		nne.			5–6	5 ck	0	ne.		0	0	small	ne.	fine.
S. S. Alene, N. 23° 00′, W. 74° 21′†	30.11	764.8	78	25.6		nne.			3		0			0	0	sm'h		clear.
S. S. Ailsa, Ponce, Porto Rico, W. I†	29.97	761.2	86	30.0		ne.			2									
S. S. Anchoria, N. 52° 25′. W. 29° 12′ †	30.16	766.1				nw.			4		8		nw.	sh'rs	sh'rs	mod.	n.	cloudy.
S. S Assyria, N. 40° 36′, W. 48° 29′	30.20	767.1	59	15.0		s.			5		9		s.	0	0	r'gh	sse.	cloudy.
S. S. Bolivia, N. 54° 29′, W. 15° 26′*†	29.79	756.7	48	8.9		nw.			3		8		nw.	sh'rs	sh'rs	sm'h	ne.	cloudy.
S. S. Dorian, New York, N. Y.	30.08	764.0																
S. S. Devonia, N. 53° 35′, W. 20° 43′*†	29.92	760.0	46	7.8		nnw.			5		10		nnw.			h'vy	n.	rain squalls
S. S. Furnesia, N. 47° 06′, W. 34° 42′†	30.34	770.6	57	13.9	81	sw.			6		4		sw.	0	0	long	e.	clear.
S. S. Elysia, N. 41° 25′, W. 57° 52′	29.73	755.1	53	11.7	93	n.			4		10		n.	9 h'r	9 h'r	mod.	n.	cloudy.
S. S. Llandaff City, N. 43° 58′, W. 47° 28′			54	12.2		s.			6		9		ssw.	0	0	mod.	sw.	hazy.
S. S. Bothnia, N. 51° 07′, W. 14° 15′	29.55	750.6	56	13.3	94	nw.			2		6		w.	shr's	shr's	con.		cloudy.
S. S. France, N. 48° 56′, W. 13° 23′ †	29.75	755.7	51.8	11		nnw.			2		3		sw.	0	0	h'vy	wsw.	fair.
S. S. Ville de Marseilles, N. 19° 23′ W. 76° 46′ *	30.05	763.3	77	25.0		ese.			3		6?		e.	0	0	sm'h		covered.?
S. S. Arizona, N. 50° 51′, W. 17° 40′	29.76	755.9	50	10.0		nw.			4		5		nw.	0	0	mod.	wnw.	fair.
S. S. Wisconsin, N. 40° 55′, W. 58° 10′	29.79	756.7	66	18.9		nw			3		10		wnw.	6 h'r	6 h'r	high	s.	cloudy.
S. S. Wyoming, N. 48° 04′, W. 33° 20′	30.37	771.4	52	11.1		var.			2		6		w.	0	0	r'gh	ne.	fair.
S. S. Bohemia, Hamburg, Germany						se.			5		1		se.	0	0			fair.
S. S. Gellert, N. 41° 30′, W. 48° 00′	30.19	766.8	65	18.3	84	ese.			6		7		wsw.	0	0	r'gh	sse.	cloudy.
S. S. Rugia, N. 40° 51′, W. 62° 06′	29.97	761.2	52	11.1		wnw.			6		0					mod.	nw.	clear.
S. S. Silesia, New York, N. Y.	30.10	764.5	54.2	12.3		ne.			2		3			0	0			fair.
S. S. Westphalia, New York, N. Y			50.0	10.0	86	w.			3		3		n.	4 h'r	4 h'r			misty.
S. S. Wieland, N. 49° 06′, W. 15° 31′	29.73	755.1				nw.			3		2		nw.	rain	rain	mod.	nw.	
S. S. City of Paris, N. 51° 18′, W. 9° 47′ *	29.63	752.6				sse.			2		0			0	0	long	w.	clear.
S. S. Bulgarian, N. 42° 20′, W. 50° 29′	29.92	760.0				wnw.			1		6			0	0	light	nw.	fine.
S. S. Colorado, New York, N. Y †	30.10	764.5	54	12.2		n.			4		0			0	0			clear.
S. S. Rio Grande. Key West, Fla *†	30.03	762.7	80	26.7		e.			3		2		e.	0	0	mod.		clear.
S. S. San Marcos, N. 34° 15′, W. 76° 32′	29.95	760.7	74	23.3		s.			4		3		sse.			sm'h		clear
S. S. Chalmette, Algiers, La †	30.04	763.0	75	23.9		sw.			1		8			0	0			cloudy.
S. S. New York, N. 27° 30′, W. 87° 00′ †*	30.00	762.0	80	26.7		se.			4		5		se.			mod.	se.	squally.
S. S. Alleghany, Baltimore, Md †	30.15	765.8	52	11.1		n.			2		4		e.	0	0			fair.
S. S. Archimede, N. 38° 37′, W. 63° 26′ †	30.02	762.5	64	17.8	62	nnw.			4		3		nnw.	0	0	mod.	nw.	clear.
S. S. Denmark, N. 47° 50′, W. 23° 00′ †.	29.99	761.7	50	10.0		nnw.			5		2		nnw.	sq'lls	sq'lls	long	nnw.	squally.
S. S. Egypt, N. 51° 26′, W. 13° 55′*†	29.77	756.1	50	10.0		ne.			2		5		ne.	0	0	mod.	n.	fair.
S. S. England, N. 40° 41′, W. 61° 28′	29.92	760.0	49	9.4		w.			5		2		w.	0	0	sll't	w.	clear.
S. S. Greece, N. 40° 24′, W. 63° 27′*	29.90	759.4	55	12.8	62	n.			4		1		s.	0	0	mod.	n.	clear.
S. S. Helvetia, New York, N. Y	30.14	765.5	56	13.3	87	ne.			1		2		ene.	0	0			clear.
S. S. America, North Sand Head, Eng*	29.99	761.7	58.5	14.7	97	s.			1		2		ssw.	0	0			hazy.
S. S. Braunschweig, N. 39° 32′ W. 57° 58′	29.75	755.6	62.0	16.7	100	var.			3–5		10		w.	13 h'r	13 h'r	mod.	var.	rainy.
S. S. Fulda, N. 46° 34′, W. 33° 22′	30.40	772.1	51	10.6	93	wnw.			2		2		var.	2 h'r	2 h'r	long	n.	clear.
S. S. Hohenzollern, N. 48° 12′, W. 24° 25′ *	30.05	763.3	51.8	11.0		nw.			6		3		nw.	6 h'r	6 h'r	high	nw.	squally.
S. S. Hohenstaufen, N. 49° 55′, W. 13° 11′	29.70	754.4				n.			0–1		5		n.	0	0	high	w.	fair.
S. S. Main, N. 44° 01′, W. 41° 18′	30.34	770.6	60.8	16.0		ssw.			4–5		8		s.	0	0	mod.	sw.	cloudy.
S. S. Neckar, N. 43° 37′, W. 40° 45′	30.36	771.1	62.0	16.7	83	ssw.			5		8		ssw.	0	0	mod.	ssw.	cloudy.
S. S. Oder, N. 51° 57′, E. 2° 43	29.95	760.7	59	15.0		calm			0		4		wsw.	0	0	sm'h		hazy.
S. S. Ohio, N. 48° 28′, W. 16° 48′	29.83	757.7				n.			3		10		ne.	10 h'r	10 h'r	light	n.	rainy.
S. S. Salier, N. 49° 39′, W. 15° 20′ *†	29.82	757.4	52	11.1		se.			2		3		ne.	0	0	sm'h	nw.	fair.
S. S. Strassburg, N. 48° 32′, W. 15° 42′	29.83	757.7	55.5	13.1	77	n.			4		10		n.	20 h'r	20 h'r	6	var.	cloudy.
S. S. Weser, N. 38° 25′ W. 71° 10′	30.18	766.6				nnw.			3		2			2 h'r	2 h'r	sm'h	n.	clear.
S. S. Orinoco, New York, N. Y						ese			1		1		calm	0	0			clear.
S. S. Colon, N. 27° 36′, W. 74° 00′	30.11	764.8	74	23.3		ese.			2		0			0	0	sm'h	se.	clear.
S. S. Muriel, N. 22° 40′ W. 65° 00′	29.94	760.5	83	28.3		n.			4		8			0	0	mod.	e.	cloudy.
S. S. City of Augusta, N. 33° 01′, W. 78° 52′ †	30.13	765.3				se.			5		6		se.	0	0	sm'h		fair.
S. S. Belgenland, Antwerp, Belgium			79	26.1	86	calm			0		2			0	0			clear.
S. S. Rhynland, N. 40° 55′, W. 48° 30′	30.10	764.5	68	20.0	100	ssw.			7		8		ssw.	2 h'r	2 h'r	high	sw.	stormy.
S. S. Pennland, N. 49° 48′, W. 7° 26′	29.96	761.0	52	11.1	93	wsw.			3		2		wsw.	5 h'r	5 h'r	sm'h		clear.
S. S. Waesland, N. 40° 35′, W. 62° 46′	30.02	762.5	52	11.1		nw.			5		1		w.	0	0	mod.	nw.	clear.
S. S. Zeeland, N. 40° 05′, W. 65° 00′*†	30.00	762.0	56	13.3		n.			2		1		nw.	shr's	shr's	sm'h		clear.
S. S. P. Caland, Rotterdam, Holland	29.93	760.2	74.5	23.6	75	nw.			3		4		nw.					fair.
S. S. Rotterdam, N. 44° 11′, W. 47° 19′	30.17	766.3	60	15.6	89	n.			6		5		nnw.	0	0	5	nw.	hazy.
S. S. Schiedam, N. 41° 37′, W. 47° 36′	30.17	766.3	68.7	20.4	81	s.			6		8		ssw.	2 h'r	2 h'r	long	ssw.	cloudy.
S. S. W. A Scholten, New York, N. Y	30.15	765.8	49.0	9.4	55	ene.			5		3		e.	0	0			clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Zaandam, N. 49° 53′, W. 5° 12′	29.92	760.0	61.9	16.6	75	ssw.			3	5 ck	0	ssw.		1 h'r	1 h'r	2-3	sw.	fair.
S. S. Caracas, N. 32° 02′, W. 71° 07′†	30.22	767.6	73	22.8	78	ne.			1		2			0	0	mod.	n.	clear.
S. S. Valencia, N. 17° 03′ W. 68° 05′ †	30.12	765.0	84	28.9	83	ene.			1		6		e.	0	0	mod.	ene.	fair.
S. S. State of Florida, N. 43° 01′, W. 53° 01′			52	11.1		ssw.			6		10		s.	5 h'r	5 h'r	high	s.	overcast.
S. S. State of Georgia, N. 54° 54, W. 14° 34′†	29.72	754.9	51	10.6		wnw.			6		10		wnw.	0	0	mod.	sw.	cloudy.
S. S. State of Nevada, N. 54° 34′, W. 16° 17′ †	29.78	756.4	49	9.4		n.			7		5		n.	0	0	mod.	n.	squally.
S. S. State of Alabama, N. 40° 07′, W. 53° 12′*	29.66	753.4	67	19.4		s.			9		10		s.	rain	rain	hv'y	s.	raining.
S. S. Marengo, N. 47° 20′, W. 33° 26′			53	11.7		wsw.			4		10			0	0	long	ene.	overcast.
S. S. Otranto, N. 40° 32′ W. 69° 16′	30.21	767.3	57	13.9		nne.			2		0			0	0	sm'h	nne.	clear.
S. S. Romano, N. 43° 36′, W. 37° 55′†	30.44	773.2	60	15.6		s.			3		3		sw.			h'vy	ne.	clear.
S. S. Oregon, St. Lawrence River	29.93	760.2	39	3.9		ssw.			4		2		sw.			mod.	se.	clear.
S. S. Daniel Steinmann, N. 42° 53′, W. 47° 14′†	30.19	766.8	65	18.3		s.			5		6		s.	0	0	mod.	s.	fair.
S. S. Plantyn, N. 39° 56′, W. 67° 16′	30.02	762.5							2		1		sw.	0	0	sm'h	nw.	clear.
S. S. Norman, Boston, Mass						ne.			1		10		ne.	0	0			cloudy.
S. S. Saxon, N. 38° 54′, W. 75° 04′†	30.07	763.8				ne.			4		fg.			0	0			light fog.
S. S. Baltic, N. 41° 07′, W. 64° 28′*	29.99	761.7	48	8.9	78	nw.			5		0			6 h'r	6 h'r	sl't	nw.	clear.
S. S. Germanic, N. 48° 45′ W. 31° 18′			50	10.0		nw.			4		7		w.	1 h'r	1 h'r	mod.	n.	fair.
S. S. Iowa, N. 47° 26′, W. 25° 32′			57	13.9		nw.			6		4		nw.	2 h'r	2 h'r	r'gh	nnw	fair.
S. S. Assyrian Monarch, N. 51° —′ W. 17° —′	29.66	753.4	56	13.3		nw.			4		2		nw.			long	sw.	clear.
S. S. Antonio Lopez, N. 29° 54′, W. 50° 15′	30.23	767.8	72.5	22.5	78	se.			4		3			0	0	mod.	se.	clear.
Schr. Abbie H. Gheen, N. 35° 55′, W. 75° 30′†	30.09	764.3	62	16.7		se.			1					0	0			fair.
Bg. Abbie Clifford, N. 18° 50′, W. 67° 42′†	30.04	763.0	82	27.8		ne.			1		5		calm	0	0	sm'h	e.	fair.
Bk. Aquidneck, N. 36° 53′, W. 75° 17′*†	30.20	767.1				var.			2				var.	0	0			cloudy.
Bk. Alpha, N. 43° 15′, W. 47° 50′*†	30.15	765.8	64	17.8		ssw.			6		4		sw.	0	0	r'gh	sw.	fair.
Bg. Alcira, N. 11° 07′, W. 71° 30′	29.95	760.7	81	27.2		ene.			5		5		ese.	0	0	sm'h	ese.	fair.
Bk. Adelaide, N. 28° 09′, W. 44° 21′*†	30.35	770.9	75	23.9		ese.			3		1		se.	0	0	mod.	se.	clear.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.12	765.0	85	29.4		calm			0		1		e.	1 h'r	1 h'r			clear.
Schr. Authur Burton, N. 36° 08′, W. 74° 40*†	30.00	762.0				sse.			1		10		se.	0	0	chop	sse.	overcast.
Bk. Achille F, N. 16° —′, W. 26° —′†	30.00	762.0	74	23.3	75	n.			6		7		nne.	0	0	mod.	nne.	hazy.
Bg. Annie R. Storer, Salt Cay, W. I†	30.10	764.5				ne.			2		3		ene.	0	0			clear.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.97	761.2	80	26.7		calm			0		10		e.	6 h'r	6 h'r			raining.
Bg. Belle of the Bay, N. 30° 10′, W. 74° 32′†	30.12	765.0				ene.			5		7		e.	0	0	sm'h	ene.	clear.
Bk. Champion, N. 20° 32′, W. 57° 10′			78	25.6	73	se.			4		8		se.	2 h'r	2 h'r	short	se.	cloudy.
Bkt. C. S. Bushnell, N. 36° 05′, W. 64° 32	30.16	766.1				n.			6		2		n.	0	0	h'vy	nw.	fine.
Ship. Cornelius, N. 49° 53′, W. 11° 10′ †	29.60	751.8	53.4	11.9		sw.			7		6		w.	0	0	long	w.	squally.
Bk. Childwall, N. 21° 30′, W. 42° 52′ *	30.10	764.5	77	25.0		ne.			4		7		ne.	¼ h'r	¼ h'r	light	ne.	fair.
Schr. Glotilde, N. 35° 50′, W. 72° 18′ *†	30.20	767.1	74	23.3		s.			1		2		se.	0	0	sm'h		clear.
S. David Stewart, N. 34° 22′, W. 57° 13′†	30.08	764.0				nw.			6		6		nw.	0	0	mod.	wnw.	hazy.
Bkt. David A. Preston, N. 30° 30′, W. 65° 40′			68	20.0		se.			2		1		s.	0	0	sm'h		
Schr. Edith R. Seward, Port Maria, Jamaica, W. I†	30.06	763.5	84	28.9		se.			1		3		ese.	0	0	sm'h		clear.
S. E. J. Spicer, Liverpool, Eng	29.92	760.0	59	15.0	88	nw.			3		5		wnw.	0	0			fair.
Bk. E. D. Bigelow, N. 42° 52′, W. 64° 10′ *†	29.85	758.2				w.			3		0			0	0			clear.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	30.18	766.6	55	12.8	74	ne.			3		10		nw.	0	0			cloudy.
Schr. F. E. McDonald, Cedar Keys, Fla †	30.07	763.8												0	0			clear.
S. Festina Lente, off Egg Island, Canada	29.79	756.7	40	4.4		w.			2		2		w.	2 h'r	2 h'r	sm'h		clear.
Bk. George Davis, N. 37° 05′, W. 60° 33′						nnw.			6				n.	0	0	high	var.	fair.
Bg. Gronsvaner, N. 5° 39′, W. 40° 30′†	29.87	758.8	80.2	26.8		ne.			5		7		ne.	1 h'r	1 h'r	long	ne.	cloudy.
Bg. Gipsy Queen, N. 36° 40′, W. 74° —′*†	30.05	763.3				ene.			5		10					sm'h		overcast.
Bk. Galeon, N. 20° 49′ W. 90° 33′†	29.95	760.7	77	25.0		e.			2		0			0	0	sm'h	sse.	blue sky.
S. Hedwig, N. 39° 12′, W. 40° 18′	30.50	774.6	63.7	17.6	77	se.			4		3		se.	0	0	4	n.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C*†	30.03	762.7	76	24.4		s.			5		4		sw.	0	0			
Bk. John H. Pearson, N. 30° 21′, W. 37° 40′						nne.			3				e.	0	0	long	n.	clear.
Bk. Cato, N. 42° 59′, W. 12° 05′*†	29.97	761.2				w.			3		1		w.	0	0	sm'h	nw.	clear.
Bg. John Wesley, Baley's Mills, Ga*†	30.01	762.2				calm			0		3			1 h'r	1 h'r			fair.
Schr. Jennie N. Huddell, Baltimore, Md†	30.16	766.1	66	18.9	100	ne.			3		10		ne.	0	0			cloudy.
Bkt. Josephine, N. 18° 00′, W. 56° 09′ †	30.03	762.7	83	28.3	67	ene.			3		2			0	0	mod.	e.	clear.
Schr. Leonessa, Baltimore, Md†	30.11	764.8				ne.			1		10		ne.	0	0			cloudy
Bg. L. & W. Armstrong, N. 24° 22′, W. 68° 57′*†	30.12	765.0				nne.			2		1		nne.	0	0	sm'h	n.	clear.
Light House Tender Laurel, St. Andrew Bay, Fla†	30.03	762.7	77	25.0		sw.			1-2		7		w.	2 h'r	2 h'r			fair.
Bg. Lilian, N. 12° 48′, W. 57° 30′ †	29.94	760.5	81	27.2		e.			5		6		ese.	½ h'r	½ h'r	mod.	se.	fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	78	25.6		se.			1		1			0	0			clear.
S. S. Madrid, Ancona, Italy†	30.08	764.0	61	16.1	82	w.			5		0			0	0			clear.
Schr. Minnie A. Bonsall, N. 31° 51′, W. 79° 55′†	30.13	765.3	77	25.0		sse.			1		0			0	0	sm'h		clear.
Bkt. Kryolith, N. 60° 05′, W 49° 02′*†	29.50	749.3				e.			8		10		e.			h'vy	e.	snowing.
S. M. Washington, N. 5° 20′ W. 26° 35′*†	30.00	762.0	80	26.7	91	baff			1-3		10			5 h'r	5 h'r	mod.		cloudy
Bgt. Myrtle, N. 38° 43′, W. 59° 25′ *†.	30.00	762 0				nnw.			5		10		nnw.	16 h'r	16 h'r	r'gh	var.	covered.
Bk. Matthias, N. 39° 02′, W. 54° 20′			71	21.7		ssw.			7		10		sw.	6 h'r	6 h'r	h'vy	sw.	gale.
Schr. Maggie Abbott, N. 26° 07′, W. 76° 01′†	30.09	764.3				ne.			3		4		e.	0	0	long	e.	clear.
S. S. Mendoza, N. 3° 50′, W. 40° 49′ †	30.00	762.0				calm			0				e.	0	0	chop	ne.	overcast.
Schr. Maud Briggs, N. 24° 40′, W. 59° 00′ *†.	30.12	765.0				nw.			5		10		nw.	2 h'r	2 h'r	sm'h	se.	overcast.
Bk. Ottawa, N. 40° 20′, W. 58° 34′*	29.68	753.9	61	16.1		nw.			6		10		nw.	10 h'r	10 h'r	mod.	s.	cloudy.
S. S. Raleigh, N. 28° 05′, W. 74° 44′†	30.19	766.8	76	24.4		ne.			1		6					sm'h		fine.
S. Rudolph, N. 50° 23′ W. 1° 15′			53.5	11.9		sse.			3		10		var.	7 h'r	7 h'r	sm'h	w.	rainy.
Bk Rebus, N. 49° 15′, W. 9° 52′	29.74	755.4	52	11.1		s.			2		7		s.	sq 'lls	sq 'lls	long	wsw.	squally.
Bg. Rising Sun, N. 38° 10′, W. 70° 32′*†	30.10	764.5	74	23.3		nne.			1		1		s.	0	0	sm'h		
Bk. Rosalie, Saint John, Antigua, W. I*†	30.00	762.0				e.			3				se.	0	0			clear.
Bk. Scud, N. 35° 34′, W. 69° 08′*†	30.08	764.0	69	20.6		n.			4		4		nne	0	0	sm'h		clear.
Bk. Southern Belle, Huelva, Portugal†	30.12	765.0				sw.			3		0			0	0			clear.
S. St. Francis, N. 29° 00′, W. 41° 30′ †	30.39	771.9	74	23.3	72	ene.			4		5		ne.	½ h'r	½ h'r	long	n.	fair.
Bk. St. Lawrence, N. 13° 41′, W. 58° 03′*†	29.95	760.7				ese.			5				ese.	0	0	r'gh	ese.	clear.
S. S. Strathleven, N. 35° 59′, W. 17° 51′	30.17	766.3	59.5	15.3	70	wnw.			3		2		wnw.	0	0	3	wnw	blue sky.
Bgt. Sunlight, Demerara, British Guana*†	30.12	765.0				e.			2		9		ese.	2 h'r	2 h'r			raining.
Bg. Teneriffe, Guantanamo, Cuba, W. I*	29.90	759.4				ne.			2		0							
Bk. Tuck Sing, N. 38° 09′, W. 73° 25′*†	30.11	764.8				ne.			2		2		wnw.	0	0	sm'h		hazy.
Bk. Usko, N. 41° 44′, W. 50° 44 *	29.93	760 2	64	17.8		sse.			6		8		s.	0	0	cross		fair.
S. Vincenzo Accame, N. 38° 08′, W. 58° 28′†	29.88	758.9	69.8	21		nw.			5		10		nnw	8 h'r	8 h'r	r'gh		covered.
Schr. Viola Reppard, N. 37° 10′, W. 76° 10′†	30.05	763.3	65	18.3		ene.			1		6		calm	0	0			fair.
Bk. Winifred, N. 22° 04′, W. 60° 53′ *†	30.05	763 3												0	0			squally.
S. Wm. McGilvery, N. 15° 05′, W. 35° 40′*†	30.10	764.5	76	24.4	82	ene.			5		5		e.	0	0	mod.	ene.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.26	768.0	48	8.9	100	n.			2		0							blue sky.
H. M. S. Bondicea, Cape Town, Cape Colony, Africa	29.78	756.4	63	17.2	94	wnw.			3		4							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.09	764.3	45.7	7.0	94	nw.			3		1							blue sky.
H. M. S. Thetis, S. 29° 16′, W. 34° 25′	29.94	760.5	73	22.8	90	nnw.			5		7					3	sw.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*..	30.06	763.5	46	7.8	84	nnw.	6	2.7			0			0	0	sm'h		clear.
U. S. S. Galena, Montevideo, Uruguay*..	30.06	763.5	45	7.2	92	nw.			2		1					sm'h		clear.
May Hulse, S. 54° 36′, W. 54° 09′	29.16	740.7	40.2	4.6	98	nne.			3		10							drizzling.
S. S. Jerome, Manaos, Brazil*	29.68	753.9	78	25.6		calm			0		10			3 h'r	3 h'r			cloudy.
S. S. Hevelius, Buenos Ayres, La Plata†	30.11	764.8	55	12.8		w.			4		2		w.	0	0			clear.
S. Minnie N. Gerow, S. 28° 55′, W. 28° 10′ †..	30.16	766.1	76	24.4		n.			3		2		n.	0	0	sm'h	n.	clear.
S. Paramita, S. 35° 50′, W. 36° 55′ †	29.87	758.7	65	18.3		wsw.			3-4		3		wnw.	0	0	long	nw.	clear.
S. Storm King, S. 48° 30′, W. 62° 12′ *†	29.34	745.2				se.			2		5		se.	0	0	mod.	wnw.	fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.																		
H. M. S. Audacious, Woo Sung, China	29.69	754.1	67	19.4	95	calm			0		10	se.						overcast.
H. M. S. Champion, N. 13° 22′, E. 100° 34′	29.74	755.4	84	28.9	87	s.			3		4	s.				1	s.	d. clouds.
H. M. S. Sappho, N. 7° 40′, W. 83° 20′	29.90	759.4	81	27.2	100	calm			0		5	s.				3	sw.	d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 05′	29.79	756.7	54	12.2	93	calm			0		10							misty.
H. M. S. Swiftsure, Esquimalt, V. I.	30.06	763.5	50	10.0	100	wsw.			1		10	wsw.						overcast
H. M. S. Zephyr, N. 34° 36′, E. 124° 45′	29.82	757.4	58	14.4	100	e.			2		10							overcast.
H. P. M. S. Tamega, Macao, China	29.87	758.7	82.4	28.0	86	sw.			4		5			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.09	764.3	61	16.1	88	calm			0		2			0.01	0.3			foggy.
U. S. S. Adams, Wrangle Id, Alaska †	29.81	757.2	48	8.9	78	wsw.			4		10					sm'h		light rain.
U. S. S. Monocacy, Salee River, Corea	29.82	757.4	61	16.1	88	wnw.			1		10		calm					cloudy.
U. S. S. Palos, Hong Kong, China	29.76	755.9	80	26.7	91	se.			1		5		calm					fair.
U. S. S. Richmond, Hong-Kong, China*	29.78	756.4	81	27.2	96	s.			1		5		s.	0	0			fair.
S. S. Mexico, La Paz, Lower Cal †	29.89	759.2	65	18.3	73	sw.			1		0							clear.
S. S. Coptic, N. 41° 02′, W. 166° 09′	30.08	764.0	47.5	8.6	81	w.			4		8		w.	8 h'r	8 h'r	high	w.	raining.
S. S. Oceanic, N. 37 07′, E. 152° 22′*	29.88	758.9	55	12.8	93	se.			6		9		se.			3	se.	raining.
S. S. City of Chester, San Francisco, Cal †	30.05	763.3	48	8.9	70	sw.			2		10			0	0			overcast
S. S. Willamette, Astoria, Oregon*†	30.10	764.5	51	10.6	86	e.			1		2		wsw.	0.05	1.3			clear.
S. S. Dakota, N. 43° 15′, W. 124° 42′			49	9.4	78	s.			6		10		s.	0	0	r'gh	s.	cloudy.
S. S. G. W. Elder, off Cape Flattery, Cal			50	10.0	93	ne.			2		10					large	w.	overcast.
S. S. Queen of the Pacific, N. 38° 25′ W. 123° 15′ †	30.00	762.0				nw.			3		2			2 h'r	2 h'r	sm'h		clear.
S. S. State of California, Columbia River, Oregon†	30.08	764.0	50	10.0	65	e.			2		4		w.					fair.
S. S. Australia, N. 19° 43′, W. 158° 37′	29.97	761.2	75	23.9	95	e.			6		8		e.	0	0	long	e.	cloudy.
S. S. City of New York, N. 31° 28′. W. 140° 47′†	30.43	772.9	62	16.7	66	ne.			4		10		ne.	0	0	mod.	ne.	cloudy.
S. S. City of Pekin, Yokohama, Japan			63	17.2	83	s.			2		8		se.	0	0			cloudy.
S. E. B. Sutton, N. 25° 30′ W. 128° 20′ †	30.21	767.3	64	17.8	89	ne.			4		9		n.	sh'rs	sh'rs	mod.	nw.	misty.
S. S. Colima, N. 17° 40′, W 102° 10′ †	29.93	760.2	78	25.6	86	wnw.			2		4		calm	0	0	sm'h		fair.
S. S. Granada, San Jose, Gautemala †	29.90	759.4	80	26.7	?	sw.			1		1		ne.	0	0	small		clear.
S. S. San José, N. 7° 08′ W. 81° 08′ †	29.98	761.5	78	25.6		ssw.			2	2 c	0	sw.		0	0	light	ssw.	clear.
S. Armenia, N. 26° 20′ W. 130° —′ *	30.13	765.3	64	17.8	73	nne.			4		1			0	0	mod.	nw.	clear.
S. S. Benledi, N. 27° 15′, E. 125° —′*	29.84	757.9	78	25.6	95	sse.			2–3		3		w.	0	0	r'gh	s.	fair.
Bk. Bore, Macassar, Celebes Id*†	30.22	767.6	86	30.0		ese.			1									
S. Grecian, N. 6° 57′, E. 132° 56′†	29.91	759.7	82	27.8	91	sw.			2		9		s.	20 h'r	20 h'r	mod.	sw.	cloudy.
S. Titan, N. 24° 36′, W. 133° 35′*†	30.25	768.3	68	20.0	84	nne.			5		5		nne.	0	0	rg'h	nne.	fair.
Bk. Xenia, N. 19° 29′, E. 118° 38′			85	29.4		ne.			3		1		ene.	0	0	sm'h	ne.	clear.
U. S. S. Ranger, N. 14° 46′, W. 92° 32′	29.91	759.7	79	26.1	86	ne.			1		8			0	0	sm'h		cloudy.
District No. 4—South Pacific.																		
H. M. S. Espiegle, S. 18° 08′, E. 178° 26′	29.88	758.9	75	23.9	90	e.			2		10							raining.
H. M. S. Kingfisher, S. 17° 32′, W. 149° 34′	29.95	760.7	74	23.3		calm			0		10							overcast.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.91	759.7	56	13.3		calm			0							sm'h		d clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.64	752.8	66	18.9	100	e.			3		10							raining.
U. S. S. Hartford, S. 3° 40′, W. 148° 02′ *	29.77	756.1	82	27.8	83	ese.			3		2			light	light	sm'h		clear.
U. S. S. Iroquois, Valparaiso, Chili	30.06	763.5	56	13.3	87	calm			0		2					sm'h		clear.
U. S. S. Lackawanna, S. 42° 37′, W. 128° 48′ *	30.52	775.2	52	11.1	86	ene.			4-6		8		ne.			r'gh	ne.	cloudy
U. S. S. Onward, Callao, Peru*†	30.10	764.5	65	18.3	84	calm			0		10							cloudy.
U. S. S. Pensacola, Callao, Peru *	29.95	760.7	65	18.3	89	ene.	1	0.4			10		se.	0	0			cloudy.
U. S. S. Wachusetts, Apia, Upolu Id, Samoan Ids	29.74	755.4	75	23.9	95	sse.			1		5		se			sm'h		fair.
S. S. City of Sydney, Sydney, N. S. W*†	29.74	755.4	64	17.8	89	ene.			3		7			0	0			fair.
S. S. Zealandia, Sydney, N. S. W	29.77	756.1	60	15.6	88	w.			2		10							rainy.
S. David Crocket, S. 32° 06′, W. 98° 52′ *	30.21	767.3	67	19.4	84	nne.			5		7		nne.	4 h'r	4 h'r	cross	nne.	showery.
H. M. S. Lark. S. 27° 28′, E. 153° 03′	29.87	758.7	67.3	19.6		calm			0		2					sm'h		d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′ E. 44° 58′	29.66	753.4	84	28.9		se.			2		4	se.						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.93	760.2	78	25.6	86	se.			2–4		6	sse.				4	sse.	d. clouds.
H. M. S. Tourmaline, N. 18° 50′, E. 58° 15′	29.82	757.4	82	27.8	96	ssw.			2		0							blue sky.
H. M. S. Woodlark, Bushire, Persia	29.70	754.4	87	30.6	88	wnw.			5		2		calm			3	w.	misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony *	29.82	757.4	66	18.9	74	calm			0		0					sm'h		clear.
U. S. S. Juniata, N. 24° 59′, E. 61° 29′	29.65	753.1	85	29.4	100	sw.			3		1			0	0	sm'h		clear.
S. S. Salerno, N. 26° 34′, E. 34° 52′ †	29.90	759.4	80	26.7		s.			1		0			0	0	sm'h		clear.
Bk. Alpheus Marshall, S. 34° 38′, E. 24° 45′ *†	29.65	753.1				nw.			1		7		calm	0	0	mod	s.	foggy.
S. Annie M. Law, S. 22° 51′, E. 70° 40′ *†	30.05	763.3	73	22.8		sse			1		0			0	0	con.	sw.	clear.
S. S. Burswell, N. 24° 54′, E. 35° 50′*†	29.81	757.2	85	29.4		n.			2		0			0	0	sm'h		clear.
Bk. Ceylon, S. 28° 22′, E. 41° 40′ *†	30.26	768.6	78	25.6	82	s.			2					0	0	long	sw.	clear
S. Dynomene, S. 37° 42′ E. 29° 00′	29.74	755.4	67	19.4	89	nnw.			5		5			c	0	mod.	sw.	misty.
S. S. Malabar, N. 7° 23′ E. 76° 35′						wsw.			4		10		sw.	4 h'r	4 h'r	hv'y	sw.	raining.
Bk. Pilgrim, S. 6° 03′, E. 108° 30′ *†	29.90	759.4				se.			2		5		se.	0	0			fair.
S. S. Radnorshire, N. 5° 48′, E. 82° 00′ *†	29.84	757.9				sw.			6		4		sw.	0	0	mod.	sw.	fair
S. St. David, S. 23° 44′, E. 98° 24′ *†	29.98	761.5	72	22.2	95	se.			4		9		var.	4 h'r	4 h'r	cross	var.	drizzling.
S. S. Foscolia, N. 2° 56′ E. 64° 20′ †	29.91	759.7				var.			3		5		var.	0	0	sll't	var.	fair.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 15, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.03	762.8	62.2	16.8	77	n.			1		0			0	0	clear	Malaterre.
Algiers			30.00	762.1	66.2	19.0	75	ne.			3		6			0	0	cloudy	Thève.
La Calle			30.02	762.4	61.9	16.6	85	ne.			5		2			0	0	fair	Fonfrède.
Tunis			30.02	762.6															Jacques.
Saida			30.06	763.4															Pérès.
Tebessa			30.02	762.5	69.8	21.0	20	e.			1		1			0	0	very fair	St. Martin.
Geriville					75.2	24.0	21	wsw.			3		2			0.039	1.0	fair	Forfert.
Laghouat			29.99	761.8	75.6	24.2	24	s.			1		0			0	0	clear	Abraham.
Biskra			30.02	762.5	81.0	27.2	36	calm			0		5			0	0*	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			29.88	758.9	59.0	15.0	60	n.	14	6.3			3 ks			0	0	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.78	756.4	29.88	758.9	54.8	12.7	89	wsw.	4	1.8			8			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.48	748.9	30.01	762.3	73.8	23.2	36	e.			3		2			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.35	745.6	30.22	767.6	70.2	21.2	53	ene.	11.2	5.0			2			0	0		Dr. Wierzbiski
Eperies	29.17	740.8	30.02	762.4	70.5	21.4	53	n.			2		10 s			0	0		Julius Mikolik.
Gratz	28.83	732.3	30.05	763.2	65.5	18.6	49	e.			2		3			0	0		Andreas Rospini.
Hermannstadt	28.55	725.2	29.93	760.2	70.7	21.5	56	s.			2		10			0.047	1.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.74	730.0	30.05	763.2	67.1	19.5	54	e.			2		0			0	0	clear	The Staff.
Lemberg	29.08	738.7	30.03	762.8	72.9	22.7	43	e.			2		0			inap.	inap.		Dr. T. Stanecki.
Neu Schmecks	26.76	679.6	30.04	762.9	63.3	17.4	54	ne.			3		5			0	0		Dr. V. von Szontagh.
Pola	29.80	757.0	29.89	759.2	66.7	19.3	57	wnw.			4		0			0	0		I. R.Hydrographic Office.
Szathmar	29.49	749.0	29.94	760.5	74.8	23.8		n.			3		3			0.043	1.1	lightning	Joseph Midlinszky, S. J.
Szegedin	29.68	753.8	29.95	760.7	70.9	21.6	51	n.			2		5			0	0		Karl Stancel.
Trieste	29.89	759.2	29.99	761.7	70.5	21.4	48	sw.			1		0			0	0		Royal Academy.
Vienna	29.39	746.6	30.09	764.3	70.2	21.2	37	n.			1		0			inap.	inap.		I. R. Central Met. Ob's'y.
British.																			
Aberdeen	29.99	761.7	30.09	764.3	53.6	12.0	58	se.	14	6.3			5			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.89	759.2	30.12	765.0	56.1	13.4	65	n.	3	1.3			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.13	765.3	55.8	13.2	78	nw.	11	4.9			7					d. clouds	John Hartnup.
Bolton, Sharples	29.59	751.6	30.12	765.0	60.0	15.6	64	sw.	6	2.7			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.70	754.4	30.09	764.3	62.5	16.9	52	nw.			2		6			0	0	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	84.0	28.9	71	ne.			1		3					d. clouds	Corpl. W. I. Cull, A.H.C.
Cardington	30.01	762.2	30.11	764.8	71.0	21.7	53	se.			0.4		5					d. clouds	John McLaren.
Chatham, School M. E.	29.96	761.0	30.09	764.3	67.0	19.4	67	ne.			1		4			blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.90	759.4	30.13	765.3	55.9	13.3	81	se.			1		9					d. clouds	The Staff.
Fort Napier, Natal	27.42	696.5	29.65	753.1	82.0	27.8	18	w.			1							blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.62	752.3	29.86	758.4	88.0	31.1	52	n.			1		4					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	30.04	763.0	30.07	763.8	58	14.4	53	sw.			1		2			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	61.0	16.1	97	e.			2		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.91	759.7	30.12	765.0	55.2	12.9	64	w.			2		6					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.94	760.5	30.11	764.8	68.8	20.4	64	ne.			1		9					d. clouds	The Staff.
Guernsey	29.79	756.7	30.09	764.3	55.0	12.8	93	nne.			1		4			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.08	764.0	30.12	765.0	64.0	17.8	65	n.	3	1.3			9					misty	The Staff.
Leicester, Museum	29.86	758.4	30.11	764.8	64.5	18.1	53	nw.			1		5					d clouds	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.00	762.0	63.0	17.2	94	n.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.03	762.7	30.08	764.0	78.5	25.8	61	se.			2		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.60	751.8	30.12	765.0	62.1	16.7	65	w.			1		9					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.90	759.4	30.12	765.0	63.2	17.3	59	nne.			1		8					d. clouds	The Staff.
Plymouth	30.03	762.7	30.11	764.8	57.2	14.0	86	calm			0		10					misty	John Merrifield.
Sandwick Manse, Orkneys	29.96	761.0	30.06	763.5	51	10.6	82						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.72	754.9	29.78	756.4	69.8	21.0	62	ne.			2		5			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.84	757.9	30.06	763.5	67.9	19.9	68	sw.			1		5			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.18	766.6	30.21	767.3	53.0	11.7	79	wsw.			3		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.14	765.5	59.0	15.0	65	w.	10	4.5			7					d. clouds	W. C. Carlisle.
Truro, Royal Institution	30.11	764.8	30.18	766.6	65	18.3	58	s.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.10	764.5	30.13	765.3	55.5	13.1	79	nnw.	15	6.7			4					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.63	752.6	30.02	762.5	68.7	20.4	40	nw.	5.0	2.2						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.96	761.0	43	6.1	67	s.	12	5.4			10 s		calm	0	0	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.81	757.2	29.88	758.9	41	5.0	70	w.	2	0.9		2 k	8 s	w.	n.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.38	746.2	29.58	751.3	45.5	7.5	78	e.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.82	757.4	29.87	758.7	38.0	3.3		e.			1		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	29.71	754.6	29.73	755.1	44	6.7	93	nw.	15	6.7		2 k	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.23	742.4	30.06	764.0	38	3.3	82	ne.	5	2.2		0	5 ks		ne.	0	0	fair	James Stewart.
Fredericton, N. B	29.83	757.7	29.89	759.2	42.5	5.8	79	e.	8	3.6			10 s			0	0	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.56	725.4	29.68	753.9	40.0	4.4	100	n.	2	0.9			10 n			0.63	16.0	cloudy	Jas. Grant.
Halifax, N. S*	29.88	758.9	30.01	762.2	43	6.1	86	s.	4	1.8		8 cs	0	sw.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.29	744.0	29.68	753.9	44.9	7.2	84	nw.			2	5 ck	0	nw.		0.50	12.7	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.27	743.4	29.60	751.8	45	7.2	83	ne.	9	4.0			10 ks		ne.	0.12	3.0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	29.95	760.7	30.00	762.0	55.0	12.8	48	sw.			5	4 ck	0	sw.		0	0	d. clouds	C. H. Rigby.
Montreal, Quebec*	29.45	748.0	29.65	753.1	45	7.2	80	n.	3	1.3			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.40	746.7	29.65	753.1	45.8	7.7	64	n.			2		10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.02	737.1	29.72	754.9	42	5.6	74	w.	4	1.8		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	28.91	734.3	29.64	752.8	46.7	8.2	77	ne.			2		10 ks			0	0	overcast	J. Dixon, B. A.
Port Dover, Ontario	28.94	735.1	29.64	752.8	41	5.0	100	ne.	15	6.7			10 n			1.04	26.4	threatening	H Morgan.
Port Stanley, Ontario	29.00	736.6	29.65	753.1	42	5.6	89	ne.	8	3.6			10 n		ne.	0.83	21.1	cloudy	M. Payne.
Quebec, Quebec*	29.37	746.0	29.72	754.9	42	5.6	80	calm	0	0			10 ks		sw.	0	0	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.25	742.9	29.71	754.6	38	3.3	72	nw.	3	1.3		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B	29.72	754.9	29.77	756.1	42	5.6	82	s.	3	1.3			10 n			inap.	inap.	light rain	
St. John, N. B	29.74	755.4	29.90	759.4	41.0	5.0	91	sw.	0	2.7			10 s			0	0	overcast	G. Murdock, C. E.
Saint John's, N. F	29.86	758.4	30.12	765.0	43	6.1	75	w.			2	2 c	0			0.10	2.5	d. clouds	J. Higgins.
St. Pierre, N. F			30.04	763.0	42.8	6.0		nw.			4					0	0		The Commandant
Saugeen, Ontario*	29.01	736.8	29.73	755.1	41	5.0	82	n.	10	4.5		0	0			0.07	1.8	clear	
Stratford, Ontario	28.41	721.6	29.70	754.4	40.6	4.8	87	ne.	9	4.0			10 s			0.700	17.8	d. clouds	O. J. Macgregor, M A
Sydney, C. B*	29.96	761.0	30.02	762.5	49	9.4	63	s.	12	5.4		2 c	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.30	744.2	29.68	753.9	43	6.1	80	n.	20	8.9			10 n		ne.	0.49	12.4	cloudy	Magnetic Observatory.
Windsor, N. S	29.84	757.9	29.94	760.5	41.0	5.0	74	sw.	8	3.6			10 ks			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.61	726.7	29.69	754.1	40.7	4.8	95	n.	12	5.4			10 s			0.42	10.7	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.84	757.9	29.91	759.7	41	5.0	79	se.	4	1.8			10 s		s.	0.01	0.3	light rain	Lt. F. E. Wilmot, R. N.
London, Ontario	28.77	730.7	29.68	753.9	40.9	4.9	97	e.			2		10 n			0.94	23.9	covered	E.B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.77	756.1	29.80	756.9	70.0	21.1	69	wsw.	12.7	5.7		0	4 k?			0	0	cloudy?	John Duthie.
Springbok Fontein	27.90	708.6			53	11.7	87	w.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.16	639.1																	A. Gueluy.
Tchang-kia-tchouang	29.77	756.1	29.88	758.9	69.4	20.8	27	calm			0		0			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.90	759.5	29.93	760.1	60.8	16.0	89	n.	3.4	1.5		10 ck	0	nw.		0.677	17.2	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.11	764.8	30.16	766.0	64.9	18.3	54	s.	20	9			0						Oversergent Fischer.
Fanoe	30.09	764.3	30.11	764.8	69.8	21.0	48	nw.			4		6						Overloerer Lauridsen.
Godthaab, Greenland	29.22	742.1	29.26	743.2	37.8	3.2	76	ne.			4		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.32	744.6	29.36	745.8	38.1	3.4		se.			4		2						
Stykkisholm, Iceland	30.00	761.9	30.04	763.0	31.6	0.2	68	e.			4		0						A. O. Thorlacius.
Thorshavn	29.95	760.8	29.98	761.4	45.7	7.6	67	w.	7	3			5						Overloerer Bergh.
Vestervig	30.04	763.1	30.13	765.4	60.6	15.9	73	nw.			2		1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.76	756.0			79.2	26.2		nw.	6.3	2.8		0	3 s			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.39	746.6	30.03	762.7	70.5	21.4	72	s.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.54	749.8	30.07	763.8	69.4	20.8	71	sw.			1	0	0			0	0	clear	M. Nicot, Director.
Arras, Engineer School	29.80	756.8	30.04	753.0	74.8	23.8	54	w.			2	ck	0			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.94	760.4	30.02	762.4	77.0	25.	47	sw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.45	747.9	29.97	761.3	77.9	25.5	30	se.			1	0	5 k		se.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.78	756.3	30.03	762.7	75.0	23.9	44	ene.			1		0			0	0	clear	M. Frère Eugène Marié.
Besançon, Normal School	29.06	738.2	29.92	759.9	79.0	26.1	53	ne.			1	0	0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.71	754.5	30.08	763.9	71.2	21.8	54	se.			1		1			0	0	almost clear	M. Rayet, Director.
Bourges, Normal School	29.42	747.2	29.95	760.6	78.8	26.	30	nnw.			1		1		nnw.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.87	758.8	30.12	765.0	54.7	12.6	90	ne.			1		10		ne.	0.059	1.5	raining	M. de Kermarée, Dir.
Caen, Normal School	29.97	761.3	30.04	763.1	62.6	17.	70	nw.			3		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.68	753.9	29.99	761.7	82.9	28.3	51	ene.			2		0			0	0	clear	M. Judot, Director.
Charleville, Normal School	29.50	749.4	29.99	761.8	83.1	28.4	39	s.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.64	727.4	29.92	759.9	81.3	27.4	21	se.			1		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.16	740.7	29.99	761.7	79.3	26.3	29	se.			2		1		se.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.3	30.01	762.2	75.4	24.1	38	ese.			1		0			0	0		Dr. Coulet, Director.
Gap, Normal School	27.50	698.6	29.94	760.5	73.8	23.2	55	ne.			3	0	5 n		nw.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.09	738.8	30.18	766.6	71.6	22.	41	sw.			1		2		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.21	741.9	29.96	760.9	77.0	25.	42	nw.			1	0	2 k			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.43	722.1	29.93	760.3	73.8	23.2	30	ne.			1	0	0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.91	759.7	30.14	765.5	59.9	15.5	80	n.			2		5		n.	0.08	2.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.39	746.5	29.93	760.3	71.6	22.0	50	w.			1	0	2 s			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.94	760.5	30.04	763.1	66.2	19.0	67	nne.			1		8	sw.	ne.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.96	735.6	29.98	761.5	75.7	24.3	38	sse.			1	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.63	752.6	29.93	760.2	72.5	22.5	71	n.			3	0	0			0	0	clear	M. Piboën, Director.
Marseille, Observatory	29.77	756.2	30.04	763.0	68.0	20.0	61	sw.			1		0			0	0	clear	M. Stephan, Director.
Montlouis	24.84	630.8	29.68	753.8	60.8	16.0	31	sw.	16.8	7.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.86	758.5	29.98	761.6	71.1	21.7	59	se.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.25	742.9	30.00	761.9	78.8	26.0	44	ene.			1		k			0	0		M. Hasse, Director.
Nantes, Observatory	29.85	758.2	30.01	762.3	73.0	22.8	54	ene.			0–2	3 ck	k			0	0		M. Larocque, Director.
Perpignan, Observatory	29.91	759.7	30.02	762.5	66.2	19.0	65	ne.	9.4	4.2			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.28	540.5			42.8	6.0		s.			1		1		n.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.03	737.4	29.97	761.2	77.0	25.	40	n.			1	0	0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.5			53.2	11.8	30	se.			3	0	fg			0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	29.93	760.3	29.97	761.1	77.0	25.0	45	sse.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.75	755.6	29.96	760.9	76.1	24.6	50	se.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.82	706.6	29.87	758.6	74.3	23.5	25	se.			1	0	0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.03	762.7	30.08	763.9	77.0	25.	55	n.			1		0			0	0	clear	M. Mouillot, Dir.
Saint Maur, Observatory	29.85	758.3	30.02	762.4	80.6	27.0	31	ne.			1		1		e.	0	0		M. Renou, Director.
Toulouse, Observatory	29.29	744.0	30.02	762.4	77.5	25.3	36	se.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.79	756.7	29.97	761.2	77.4	25.2	33	ene.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.53	750.0	30.02	762.5	79.5	26.4	30	ne.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.82	757.5	29.97	761.3	67.8	19.9	68	se.	4.0	1.8		0	3 k		sse.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.68	728.5	30.06	764.0	71.6	22.0	38	ne.			4		0			0	0		Prof. Jnedt.
Bamberg	29.24	742.8	30.09	764.3	69.1	20.6	50	ese.			3	0	1 s			0	0		Prof. Dr. Hoh.
Berlin	30.02	762.5	30.16	766.0	76.6	24.8	27	se.			3		3			0	0		Meteorological Institute.
Breslau	29.69	754.0	30.22	767.6	69.3	20.7	37	e.			2		0			0	0		Royal University Obs'y
Carlsruhe	29.59	751.6	30.03	762.8	76.3	24.6	37	ne.			4		0			0	0		Albert Senz.
Cassel	29.34	745.3	30.06	763.4	79.3	26.3	36	s.			1		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.04	762.9	76.5	24.7	30	se.			1		0			0	0		Physical Society.
Friedrichshafen	28.62	727.0	29.98	761.6	71.6	22.0	49	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.00	761.9	30.09	764.2	77.0	25.0	45	se.			3		1			0	0		E. Preller.
Kiel	30.06	763.6	30.08	764.0	70.0	21.1	46	calm			0		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.71	754.5	30.11	764.8	75.7	24.3	34	se.			1		0			0	0		H. Leppig, Asst.
Magdeburg	29.92	759.9	30.10	764.5	77.5	25.3	48	se.			2		3	w.		0	0		Dr. Assmann.
Memel	30.24	768.2	30.29	769.4	65.1	18.4	54	nnw.			3		0						Issermann.
Munich	28.26	717.7	30.12	765.1	68.9	20.5	39	e.			1		0			0	0		Central Station.
Neufahrwasser	30.26	768.7	30.28	769.1	66.6	19.2	53	ne.			2		3			0	0		A. Lothes.
Neustadt, Palatinate	29.48	748.8	30.00	762.1	76.6	24.8	38	w.			1		0			0	0		Dicknether.
Stuttgart	29.69	738.9	29.95	760.6	76.1	24.5	29	e.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.16	766.1	30.18	766.7	75.7	24.3	46	se.			3	0	3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.50	749.4	29.88	758.7	72.0	22.2		n.			1.0	0	6 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.67	753.5	29.72	754.8	87.0	30.6	84	wsw.	28.0	12.5			9	wsw.		0	0	d. clouds	
Deesa	29.21	741.9	29.66	753.3	104.6	40.3	21	sw.	20.0	8.9			0			0	0	blue sky	
Bombay	29.80	756.9	29.84	757.8	88.1	31.2	68	w.	9.0	4.0			3		wsw.	0	0	d. clouds	
Pooaa, Yurrowda	27.95	709.9	29.75	755.7	92.8	33.8	39	nw.	31.0	13.8			1			0	0	d. clouds	
Trichinopoly	29.48	748.9	29.76	755.8	100.0	37.8	33	s.	1.0	0.4			8	nne.	ene.	0	0	d. clouds	
Belgaum	27.29	693.2	29.79	756.6	83.4	28.6	57	e.	11.0	4.9			1	w.		0	0	d. clouds	
Lahore	28.79	731.2	29.49	749.0	105.3	40.7	17	sw.	4.0	1.8			4			0	0	hazy	
Roorkee	28.66	727.8	29.51	749.4	103.9	39.9	19	s.	0	0			0			0	0		
Agra	29.01	730.9	29.54	750.4	110.1	43.4	13	sw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.60	726.4	29.58	751.4	107.7	42.1	14	calm	4.0	1.8			0			0	0	blue sky	
Jubbulpore	28.30	718.7	29.58	751.4	105.4	40.8	14	w.	0.0	2.7			3		w.	0	0	d. clouds	
Lucknow	29.21	742.0	29.57	751.1	102.4	39.1	30	wnw.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.25	743.0	29.54	750.4	106.6	41.4	17	nnw.	4.0	1.8			0			0	0	blue sky	
Patna	29.43	747.5	29.61	752.1	93.6	33.9	53	e.	10.5	4.7			0			0	0	blue sky	
Hazaribagh	27.65	702.3	29.63	752.6	83.3	28.5	54	ese.	7.5	3.4			5			0.15	3.8	drizzling	
Cuttack	29.55	750.5	29.63	752.5	89.5	31.9	66	w.	6.0	2.7			5	w.		0	0	d. clouds	
Calcutta, Alipore	29.67	753.0	29.69	754.2	87.4	30.8	74	ssw.	9.0	4.0			9			0	0	d. clouds	
Dhubri	29.60	751.8	29.72	754.9	73.8	23.2	89	ene.	16.5	7.4			10		wsw.	0.42	10.7	overcast	
Chittagong	29.70	754.4	29.79	756.6	82.6	28.1	85	sse.	5.8	2.6			9			0	0	d. clouds	
Sibsagar	29.47	748.6	29.81	757.3	74.4	23.6	87	ne.	2.0	0.9			10	w.	w.	0.17	4.3	overcast	
Jeypore	28.20	716.3	29.57	751.0	106.0	41.1	25	wnw.	12.3	5.5			2		wnw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.26	717.8	.....	.....	101.8	38.8	22	se.	4	1.8	.....	5 ck	2	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.91	759.7	83.0	28.3	74	.....	8.3	3.7	.....	.....	6	.....	ese.	0.12	3.0	d. clouds	
ITALIAN.																			
Udine	29.60	751.8	30.00	761.9	73.4	23.0	35	sw.	1.8	0.8	.....	.....	1	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.50	749.4	30.01	762.2	74.1	23.4	37	sw.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Prof. G.V.Schiapparelli.
Padua	29.89	759.3	30.00	762.0	71.1	21.7	40	sse.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.12	739.6	30.00	761.9	73.0	22.8	45	nnw.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.84	757.8	30.02	762.6	70.2	21.2	45	sw.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi
Mondovi	28.13	714.6	30.00	761.9	67.8	19.9	50	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.95	760.8	30.00	762.0	64.4	18.0	76	n.	6.9	3.1	.....	.....	1	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.72	754.9	29.97	761.3	76.1	24.5	28	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.86	758.5	29.95	760.7	67.5	19.7	61	nnw.	3.1	1.4	.....	.....	1	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.82	757.5	30.00	761.9	72.1	22.3	43	w.	4.3	1.9	.....	.....	1	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.69	754.1	29.94	760.4	68.0	20.0	56	nnw.	11.2	5.0	.....	.....	1	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.08	738.6	29.95	760.6	73.0	22.8	73	sse.	3.1	1.4	.....	.....	2	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.78	756.4	29.97	761.3	66.2	19.0	63	s.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.79	756.7	30.04	763.0	64.2	17.9	51	ne.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	29.91	759.8	29.96	760.9	71.8	22.1	65	nne.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.48	748.8	29.99	761.8	68.3	20.3	67	sw.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.29	566.1	.....	.....	34.9	1.6	76	e.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.30	566.4	.....	.....	49.6	9.8	60	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.74	755.3	29.77	756.2	59.1	15.1	71	calm	.....	.....	0	4 ck	6 ck	w.	w.	0	0	cloudy	H. Hattori.
Awomori	29.70	754.4	29.74	755.4	52.7	11.5	86	sw.	0.7	0.3	.....	.....	10 n	.....	.....	0.028	0.7	raining	K. Ogawa.
Hamamatsu	29.72	754.9	29.75	755.6	58.6	14.8	94	ne	.....	.....	2	.....	10 n	.....	.....	1.181	30.0	raining	
Kagoshima	29.71	754.5	29.72	754.8	68.9	20.5	95	w.	.....	.....	4	.....	10 n	.....	.....	0.288	7.3	light rain	G. Miyanohara.
Kioto	29.51	749.5	29.68	753.9	62.2	16.8	83	nne.	5.3	2.3	.....	.....	10s;ck	.....	ne.	0.236	6.0	cloudy	M. Tojima.
Miasaka	29.65	753.2	29.68	753.9	70.9	21.6	89	wsw.	.....	.....	2	.....	10s;ks	.....	w.	0.047	1.2	covered	K. Masusaki.
Miyako	29.70	754.4	29.81	757.2	57.5	14.2	72	ssw.	5.5	2.4	.....	.....	10 n	.....	.....	.....	.....	raining	N. Honno.
Nagasaki, I. M. Obs'y	29.52	749.8	29.72	754.9	64.6	18.1	95	w.	3.3	1.4	.....	.....	10 s	.....	w.	0.040	1.0	overcast	S. Takehayashi.
Niigata	29.73	755.1	29.77	756.1	56.8	13.8	85	se.	8.3	3.7	.....	.....	10 n	.....	s.	0.310	7.9	light rain	M. Morita.
Nobiru	29.81	757.2	29.83	757.6	56.2	13.4	94	s.	25.8	11.5	.....	.....	10 n	.....	s.	0.725	18.4	stormy	H. Midzushima.
Numazu	29.76	755.9	29.80	756.8	57.1	13.9	98	calm	.....	.....	0	.....	10 n	.....	.....	0.374	9.5	raining	R. Kaneda.
Osaka	29.04	752.9	29.66	753.3	61.1	16.2	90	ene.	18.5	8.2	.....	.....	10 n	.....	.....	0.170	4.3	light rain	H. Omura.
Tokei Obs'y, Yeddo	29.74	755.5	29.81	757.3	59.4	15.2	96	sse.	3.0	1.3	.....	.....	10 n	.....	.....	0.471	12.0	light rain	The Staff.
Wakayama	29.57	751.2	29.63	752.8	64.1	17.8	90	nnw.	0.2	0.1	.....	.....	10 n	.....	.....	0.304	7.7	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.91	759 7	30.10	764.5	75.0	23.9	74	ese.	14.5	6.5	.....	0	2 k;ks	.....	ese.	0.14	3.6	fair	The Staff.
MEXICAN.																			
Guanajuato	23.65	600.8	29.87	758.8	65.3	18.5	69	ssw.	inap.	inap.	.....	1 c	0	.....	.....	inap.	inap.	foggy	Prof. Vicente Fernandez.
Leon	24.28	616.7	29.88	758.9	62.4	16.9	75	nnw.	1.8	0.8	.....	1 c	0	.....	.....	0	0	dense fog	Prof. M. Leal.
Mazatlan	29.67	753.7	29.93	760.2	69.0	20.6	87	n.	0.9	0.4	.....	1 cs	0	.....	.....	0	0	misty	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	61	16.1	93	ne.	.....	.....	.....	0	1 k	.....	se.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.08	764.0	30.08	764.0	67.6	19.8	.....	nnw.	.....	.....	3	.....	.....	.....	.....	0.079	2.0	.....	
Groningen	30.00	762.0	30.06	763.4	71.4	21.9	.....	e.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.07	763.7	30.07	763.7	59.0?	15.0?	.....	ne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.07	763.7	30.07	763.7	70.3	21.3	75	nw.	.....	.....	1	.....	.....	.....	.....	0.362	9.2	.....	
Utrecht	30.01	762.3	30.06	763.5	75.9	24.4	63	n.	.....	.....	2	.....	2	.....	.....	0	0	lightly cld'y	H. van der Brink
Sub-series.																			
Batavia, Java	29.86	758.5	.....	.....	82.4	28.0	84	ne.	0.5	0.2	.....	.....	3	.....	.....	0	0	.....	Lt J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.98	761.6	30.05	763.2	57.6	14.2	76	s.	20	9	.....	.....	9	.....	.....	0	0	.....	
Brono	29.93	760.1	29.97	761.1	55.8	13.2	53	calm	.....	.....	0	.....	8	.....	.....	0.012	0.3	.....	
Christiania	29.91	759.7	30.06	763.4	56.5	13.6	87	wsw.	7	3	.....	.....	10	.....	.....	0.299	7.6	foggy	
Gjæsvær	29.92	760.0	29.95	760.6	39.9	4.4	.....	se.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.86	758.5	29.91	759.7	44.2	6.8	92	wsw.	.....	.....	4	.....	10	.....	.....	0.937	23.8	rain & fog	
PORTUGUESE.																			
Angra, Azores	30.29	769.4	30.45	773.4	59.4	15.2	76	nne.	12.5	5.6	.....	.....	5	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.95	735.4	29.95	760.6	62.2	16.8	64	nw.	6.3	2.8	.....	.....	7	.....	.....	0.020	0.5	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.05	763.3	30.14	765.5	62.4	16.9	47	sw.	3.8	1.7	.....	.....	7	.....	.....	0.039	1.0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.64	752.9	29.98	761.4	59.2	15.1	68	ssw.	5.6	2.5	.....	.....	9	.....	.....	0.150	3.8	.....	The Staff.
Ponta Delgada, Azores	30.35	770.9	30.42	772.7	60.1	15.6	56	n.	9.8	4.4	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Serra da Estrella	25.19	639.8	29.98	761.5	41.4	5.2	94	se.	1.3	0.6	.....	.....	10	.....	.....	0.949	24.1	foggy	
RUSSIAN.																			
Akmolinski	28.55	725.2	29.56	750.7	78.8	26.0	30	sw.	22	10	.....	0	7 k	.....	.....	0.236	6.0	.....	Major K. Lasarew.
Archangel	29.90	760.9	29.98	761.4	55.0	12.8	68	wnw.	2	1	.....	0	7 ks	.....	.....	0.217	5.5	.....	Capt. Sseltwerstow.
Ashurada	29.88	759.0	29.79	756.6	75.9	24.4	71	nw.	18	8	.....	0	2 k	.....	.....	0	0	.....	
Astrakhan	29.98	761.4	29.89	759.3	85.6	29.8	19	se.	11	5	.....	c	2 s	.....	.....	0	0	light clouds	Capt. Wisganow.
Baku	29.86	758.5	29.82	757.3	70.7	21.5	74	ssw.	4	2	.....	0	1 s	.....	.....	0	0	.....	
Barnaul	28.99	736.4	29.46	748.2	78.3	25.7	19	sw.	31	14	.....	.....	7	.....	.....	0.039	1.0	.....	Meteorological Obs'y
Bielosersk	29.72	754.9	30.19	766.8	56.8	13.8	73	w.	7	3	.....	.....	10 ks	.....	.....	0	0	.....	
Dorpat	30.05	763.2	30.28	769.2	68.0	20.0	51	sw.	9	4	.....	0	1 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.83	732.3	29.78	756.5	53.4	11.9	68	w.	9	4	.....	.....	10	.....	.....	0.008	0.2	thud'r storm	Meteorological Obs'y
Elissawetgrad	29.48	748.9	29.91	759.7	82.0	27.8	23	e.	18	8	.....	0	7 ks	.....	.....	0	0	light clouds	
Irkutsk	28.16	715.3	29.76	755.8	59.2	15.1	52	calm	.....	.....	0	.....	7	.....	.....	0	0	.....	
Kasalinsk	29.40	746.8	29.58	751.3	88.9	31.6	40	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.73	755.2	30.00	761.9	68.7	20.4	33	nnw.	13	6	.....	0	0	.....	.....	0	0	.....	Observatory.
Kem	29.90	759.5	29.95	760.8	47.5	8.6	92	ne.	9	4	.....	.....	10 n	.....	.....	0.272	6.9	.....	
Kertch	29.84	757.9	29.86	758.5	64.8	18.2	79	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	29.40	746.7	30.00	761.9	79.0	26.1	34	ne.	9	4	.....	cs	1 ks	.....	.....	0	0	light clouds	Observatory.
Koslov	29.58	751.3	30.10	764.4	76.8	24.9	38	ne	13	6	.....	0	0	.....	.....	0	0	.....	
Libau	30.29	769.3	30.31	769.9	57.0	13.9	79	wsw.	4	2	.....	.....	0	.....	.....	0	0	.....	E. Quaas.
Lugan	29.67	753.5	29.84	757.9	86.5	30.3	18	ene.	13	6	.....	.....	5	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.71	754.7	30.17	766.3	72.0	22.2	35	nnw.	8.9	4.0	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.80	757.0	29.88	758.9	80.6	27.0	54	ne.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.70	754.3	29.78	756.5	34.2	1.2	92	se.	9	4	.....	.....	10	.....	.....	0.087	2.2	snowing	Iwanow.
Pekin, China	29.66	753.4	29.80	757.0	71.4	21.9	35	calm	0	0	.....	1 cs	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.56	750.7	29.89	759.1	84.7	29.3	22	ne.	1.1	0.5	.....	.....	9 ks	.....	.....	0	0	.....	
Petrozavodsk	29.88	758.9	30.07	763.8	62.8	17.1	61	w.	22	10	.....	0	7 ks	.....	.....	0.039	1.0	.....	Dr. Bergmann.
Pinsk	29.66	753.3	30.13	765.4	76.3	24.6	50	e.	9	4	.....	0	0	.....	.....	0	0	.....	
Poti	29.77	756.2	29.80	757.0	69.4	20.8	80	nw.	9	4	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	30.23	767.8	30.25	768.4	56.7	13.7	72	nw.	16	7	.....	0	1 ks	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.52	698.9	29.87	758.7	76.5	24.7	39	n.	3.4	1.5	.....	1 c	0	.....	.....	0	0	.....	
Semipalatinsk	29.04	737.6	29.65	753.2	79.3	26.3	25	sw.	18	8	.....	.....	2	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.61	752.0	29.83	757.6	66.6	19.2	84	se.	7	3	.....	0	5 n	.....	.....	0.224	5.7	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mils. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.78	756.4	30.22	767.6	76.1	24.5	40	ne.	13	6		0	1 k			0.035	0.7		
Tashkend	28.27	718.0	29.84	758.0	81.3	27.4	28	calm	0	0		0	2 s			0	0		Terch, A. M.
Tiflis	28.39	721.2	29.72	755.0	82.4	27.8	33	w.	2	1		0	2 k			0	0		Physical Observatory.
Vernoe	27.39	695.6	29.79	756.7	70.2	21.2	50	w.	2	1		6 ck	0			0	0		
Viatka	29.34	745.3	29.96	760.9	61.7	16.5	47	nw.	4	2			5			0	0		
Warsaw	29.78	756.4	30.19	766.8	72.5	22.5	42	ene.	9	4		0	0			0	0		Astronomical Obs'y.
Yeniseisk	29.21	742.0	29.50	749.4	34.5	1.4	99	wsw.	7	3			10			0.291	7.4	raining	M. O. Marks.
SCOTTISH.																			
Monach Lt			30.09	764.3	53	11.7	93	w.			4	0	0			0	0	clear	J. Youngclause
North Unst			29.91	759.7				sw.			4	0	3						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.6	30.05	763.2	68.4	20.2	52	s.	3.8	1.7		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.94	760.4	30.00	761.9	67.1	19.5	65	nw.	2.9	1.3		2	4	w.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.00	685.7	29.90	759.5	63.0	17.2	63	ne.	4.0	1.8		5	3	sw.		0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.5	29.89	759.3	70.9	21.5	57	sw.	3.1	1.4		0	8			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.83	757.7	29.94	760.5	70.2	21.2	67	ese.	4.7	2.1		2	3	w.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.14	740.1	30.01	762.3	51.8	11.0	93	n.	9.8	4.4		2 n	2 n	s.	e.	0	0		Prof. L. G. Frades.
Santiago, Met. Obs'y	29.02	737.2	29.91	759.6	61.0	16.1	62	w.	1.3	0.6			8			0.043	1.1	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.97	761.3	30.04	762.9	75.9	24.4	83	e.	6.3	2.8		ck;cs	0	nw.		0	6	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.4	29.87	758.8	83.0	28.3	82	ne.	4.9	2.2		7 cs	2 ks			0.709	18.0	misty	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.85	758.1	29.95	760.6	65.1	18.4	77	wsw.	10.3	4.6		0	8		w.	0.365	9.3		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.90	759.5	29.99	761.8	80.2	26.8	86	calm	0	0		0	2 k		s.	0.591	15.0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.92	760.0	29.96	761.0	47.1	8.4	73	s.			2		8			0	0		
Umea	29.91	759.6	29.96	760.9	59.4	15.2	75	wsw.			4		8			0.063	1.6		
Hernosand	29.92	759.9	29.97	761.2	65.1	18.4	60	wsw.			2		8			0.020	0.5		
Stockholm	29.98	761.4	30.15	765.9	70.2	21.2	42	s.			4		0			0	0		
Wisby	30.12	765.1	30.18	766.6	69.4	20.8	38	ssw.			4		0			0	0		
Sub-series.																			
Upsala	29.99	761.7	30.08	763.9	74.1	23.4	39	ssw.	16.8	7.5			1		sw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.61	726.6	29.99	761.8	68.7	20.4	46	n.			3		1			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			29.82	757.5	66.7	19.3	67	n.	7	3.0			6		n.	0	0		The Observatory.
Valona			30.03	762.7	73.0	22.8		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.1	70.0	21.1	69	sw.			3		8 n		sw.	0.28	7.1		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.55	750.6	29.63	752.6	50	10.0	80	s.	3	1.3			10 s		s.	0.46	11.7	cloudy	J. O. Barnes.
Alpena, Michigan	29.14	740.1	29.80	756.9	42	5.6	58	nw.	6	2.7		0	0			0.09	2.3	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.97	634.2	29.79	756.7	35	1.7	69	ne.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.16	689.9	30.00	762.0	40	4.4	82	e.	3	1.3			10 s		s.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.71	729.2	29.88	758.9	70.5	21.4	76	s.	11	4.9		4 k	0	s.		0.02	0.5	fair	Edward A. Beals.
Atlantic City, New Jersey	29.58	751.3	29.59	751.6	57	13.9	100	s.	8	3.6			fg.			0.85	21.6	dense fog	Jas. M. Watson.
Augusta, Georgia	29.70	754.4	29.89	759.2	77	25.0	75	sw.	8	3.6		0	9 k;s		sw.	0	0	cloudy	John Healy.
Baltimore, Maryland	29.60	751.8	29.65	753.1	57	13.9	86	s.	4	1.8			10n;fg			0.05	1.3	light rain	Geo. W. Felger.
Barnegat City, New Jersey	29.57	751.1	29.59	751.6	54.0	12.2	100	e.	6	2.7			fg.			0.12	3.0	dense fog	G. A. Hill.
Behring Id., Behring Sea	30.00	762.0	30.02	762.5	34.6	1.4		w.	5	2.2			10 n			0.08	2.0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.53	724.6	30.09	764.3	39.0	3.9	92	calm	0	0		0	0			0.01	c.3	clear	A. Pritchard.
Benton, Fort, Montana	27.21	691.1	30.00	762.0	44	6.7	76	e.	6	2.7		0	0			0.05	1.3	clear	S. Wheaton.
Billings, Montana	26.76	679.7	29.94	760.5	36	2.2	72	calm	0	0		4 c	0	w.		0.04	1.0	fair	T. Gibson.
Bismarck, Dakota	28.28	718.3	30.07	763.8	45	7.2	56	ne.	4	1.8			10 s		sw.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.52	749.8	29.55	750.6	54	12.2	93	sw.	16	8.0			fg.			0.64	16.3	dense fog	J. T. Elker.
Boise City, Idaho	27.03	686.5	29.87	758.7	38	3.3	92	nw.	4	1.8			10 s			0.30	7.6	cloudy	J. Kenealy.
Boston, Massachusetts	29.44	747.8	29.60	751.8	44.0	6.7	100	ne.	13	5.8			10 n			0.79	20.1	light rain	O. B. Cole.
Brownsville, Texas	29.82	757.4	29.86	758.4	79.0	26.1	90	s.	5	2.2		0	5 s		s.	0	0	fair	M. McCarty.
Buffalo, New York	28.86	733.0	29.60	751.8	41.5	5.3	100	n.	12	5.4			10n;fog			0.83	21.1	light rain	W. Finn.
Buford, Fort, Dakota	28.12	714.2	30.10	764.5	46	7.8	65	e.	6	2.7			10 s			0	0	cloudy	F. A. Mellen.
Burlington, Vermont	29.33	745.0	29.62	752.3	47.0	8.3	86	calm	0	0			10 n		w.	0.32	8.1	light rain	D. N. Farnell.
Cairo, Illinois	29.58	751.3	29.98	761.5	56.6	13.7	65	n.	10	4.5			10 s		n.	0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	29.65	753.1	29.67	753.6	71	21.7	84	sw.	20	8.9		0	7 ks		sw.	0.71	18.0	fair	A. K. Alderson.
Cape May, New Jersey	29.59	751.6	29.62	752.3	61.5	16.4	85	sw.	7	3.1			10 s			0.14	3.6	cloudy	W. E. Smith.
Cape Mendocino, California	29.24	742.7	29.92	760.0	47	8.3	100	nw.			2		fg.		nw.	0	0	light fog	J. J. McLean.
Cedar Keys, Florida	29.97	761.2	29.99	761.7	77	25.0	85	sw.	13	5.8		0	8 k		sw.	0.02	0.5	cloudy	G. W. Davis.
Charleston, S. Carolina	29.84	757.9	29.89	759.2	76.0	24.4	85	sw.	12	5.4			10 s		sw.	inap.	inap.	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.92	734.6	29.76	755.9	70.0	21.1	70	sw.	4	1.8			10 s		sw.	0.08	2.0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.01	736.8	29.82	757.4	75.0	23.9	64	sw.	10	4.5		0	1 k			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.06	611.1	29.93	760.2	38.2	3.4	82	sw.	8	3.6			10 s			0.05	1.3	cloudy	E. McGovern.
Chicago, Illinois	29.17	740.9	29.87	758.7	40.6	4.8	87	nw.	8	3.6			10 n			0.26	6.6	light rain	John Laurens.
Chincoteague, Virginia	29.63	752.6	29.65	753.1	67	19.4	93	sw.	4	1.8			10 ks		nw.	inap.	inap.	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.10	739.1	29.75	755.6	56.0	13.3	74	nw.	13	5.8			10 s		w.	0.53	13.5	cloudy	L. Dunne.
Cleveland, Ohio	28.91	734.3	29.64	752.8	42	5.6	96	n.	12	5.4			10n;fg			0.61	15.5	light rain	J. B. Newlin.
Coleman City, Texas	28.13	714.5	29.92	760.0	67	19.4	84	se.	2	0.9		5 cs	0			0	0	fair	T. J. Kenan.
Columbus, Ohio	28.79	731.3	29.63	752.6	56	13.3	86	w.	11	4.9			10 n		w.	0.73	18.5	thund'r st'm	D. Cuthbertson.
Concho, Fort, Texas	28.00	711.2	29.90	759.4	66.2	19.0	90	calm	0	0		10 cs	0			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.32	744.7	29.96	761.0	45	7.2	76	n.	6	2.7		2 k	0	nw.		0.18	4.6	clear	R. R. Martin.
Davis, Fort, Texas	25.16	639.1	29.88	758.9	59	15.0	84	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.17	715.5	29.92	760.0	44	6.7	68	ne.	4	1.8		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.39	644.9	29.91	759.7	34	1.1	66	calm	0	0		0	0			0.06	1.5	clear	F. Willson.
Delaware Breakwater, Del.	29.60	751.8	29.62	752.3	64	17.8	78	sw.	10	4.5			9 s		sw.	0.08	2.0	cloudy	T. S. Townsend.
Denver, Colorado																			F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.07	763.8	45	7.2	76	n.	5	2.2		0	0			inap.	inap.	clear	F. W. Conrad.
Detroit, Michigan	28.98	736.1	29.68	753.9	42.0	5.6	92	n.	18	8.0			10 s			0.43	10.9	cloudy	E. R. Brace.
Dodge City, Kansas	27.56	700.0	30.11	764.8	42	5.6	83	n.	12	5.4		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.29	744.0	29.99	761.7	43.8	6.6	71	nw.	3	1.3		0	0			0.57	14.5	clear	J. Harvey Smith.
Duluth, Minnesota	29.23	742.4	29.98	761.5	41	5.0	73	s.	4	1.8		0	3 s		s.	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.92	760.0	77.0	25.0	76	se.	5	2.2		1 c	0	sw.		0	0	clear	F. Belford.
Eagle Rock, Idaho	25.15	638.8	29.83	757.7	41	5.0	70	n.	8	3.6		3 cs	3 s		nw.	0	0	fair	H. R. Boynton.
Eastport, Maine	29.81	757.2	29.88	758.9	42.0	5.6	82	s.	6	2.7			10 n		s.	inap.	inap.	light rain	D. O. Murphy.
Elliott, Fort, Texas	27.34	694.4	30.04	763.0	45	7.2	76	ne.	8	3.6		8 c	0	ne.		0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.19	665.2	29.83	757.7	61.0	16.1	42	sw.	2	0.9		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.91	734.3	29.63	752.6	42	5.6	92	ne.	15	6.7			fg.			0.89	22.6	dense fog	C. A. Shaw.
Escanaba, Michigan	29.24	742.7	29.90	759.4	40.5	4.7	61	n.	1	0.4		0	0			0	0	clear	George Heathcote.
Galveston, Texas	29.93	760.2	29.97	761.2	78	25.6	88	s.	6	2.7		0	6 ks		sw.	0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.17	740.9	29.83	757.7	44.0	6.7	80	n.	13	5.8		0	0			0.41	10.4	clear	J. E. Mueller.
Grant, Fort, Arizona	25.17	639.3	29.78	756.4	53.5	11.9	38	se.	4	1.8		8 cs	0			0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	29.77	756.1	29.79	756.7	72	22.2	84	sw.	36	16.1			10 s		w.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.67	652.0	29.84	757.9	47	8.3	71	sw.	13	5.8		0	0			0	0	clear	N. C. Smith.
Huron, Dakota	28.70	729.0	30.05	763.3	41.8	5.4	82	nw.	4	1.8		3 ck	2 s	nw.		0.07	1.8	fair	S. W. Glenn.
Indianapolis, Indiana	28.98	736.1	29.78	756.4	47.3	8.5	86	nw.	15	6.7			10 s		nw.	1.02	25.9	threatening	C. F. R. Wappenhans.
Indianola, Texas	29.89	759.2	29.92	760.0	78.3	25.7	86	s.	7	3.1		2 cs	3 s	nw.	w.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.83	719.6	29.98	761.5	67	19.4	59	e.	9	4.0			10 s		e.	0	0	cloudy	D. J. Carr.
Jacksonville Florida	29.97	761.2	30.01	762.2	75	23.9	88	sw.	7	3.1			10 s			0.59	15.0	cloudy	J. W. Smith.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.39	695.7	29.84	757.9	40	4.4	67	calm	0	0		0	3 k			0.03	0.8	clear	W. B. Lamar.
Keokuk, Iowa	29.34	745.2	29.99	761.7	47.0	8.3	77	nw.	9	4.0			10 k		nw.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	80.0	26.7	74	se.	3	1.3		3 c	2 k	sw.	se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.73	755.1	29.75	755.6	72.5	22.5	90	sw.	25	11.2		0	8 ks		sw.	0.30	7.6	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.77	730.7	29.79	756.7	62.4	16.9	95	calm	0	0		3 k	0	w.		0.78	19.8	clear	J. A. Cody.
La Crosse, Wisconsin	29.21	741.9	29.97	761.2	44	6.7	68	w.	2	0.9		0	0			0.55	14.0	clear	S. C. Emery.
Leavenworth, Kansas	29.22	742.2	30.10	764.5	48	8.9	77	nw.	9	4.0		10 k	0	nw.		0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.12	739.6	29.96	761 0	43.5	6.4	88	se.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.67	753.6	29.98	761.5	65	18.3	73	n.	6	2.7		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.61	752.1	30.01	762.2	44	6.7	93	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.22	742.2	29.77	756.1	58.5	14.7	72	w.	20	8.9		0	5 k		w.	0.01	0.3	fair	L. M Dey.
Lynchburg, Virginia	29.00	736.6	29.68	753.9	69	20.6	57	sw.	4	1.8			10 s		sw.	0	0	cloudy	Lou's Duane.
Mackinaw City, Michigan	29.19	741.4	29.84	757.9	42.0	5.6	50	w.	6	2.7		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.78	756.4	29.79	756.7	71.0	21.7	94	sw.	36	16.1		0	9 n		sw.	0.04	1.0	light rain	William Daly.
Maginnis, Fort, Montana	25.53	648.5	29.94	760.5	45	7.2	49	se.	5	2.2		5 c	0			0.04	1.0	fair	F. Burke.
Marquette, Michigan	29.19	741.4	29.91	759.7	45	7.2	53	nw.	1	0.4		0	0			0	0	clear	E. H. Thompson.
Memphis, Tennessee	29.62	752.3	29.95	760.7	60	15.6	75	w.	4	1.8		0	0			0.49	12.4	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.17	740.9	29.91	759.7	42	5.6	65	n.	18	8.0		0	0			0.31	7.9	clear	W. Line.
Missoula, Fort, Montana	26.64	676.6	29.94	760.5	50	10.0	55	ne.	9	4.0		0	0			0	0	clear	J. H. Young.
Mobile, Alabama	29.96	761.0	30.00	762.0	75.3	24.1	91	w.	4	1.8		2 c	1 ks	sw.		0.06	1.5	clear	C. A. Read.
Montgomery, Alabama	29.66	753.4	29.89	759.2	75.5	24.2	87	sw.	6	2.7			10 ks		sw.	inap.	inap.	threatening	J. B. McLaughlin.
Moorhead, Minnesota	29.07	738.4	30.05	763.3	35	1.7	79	n.	6	2.7		5 cs	0	n.		0	0	fair	H. Bessaut.
Mt. Washington, N. H	23.43	595.1	29.61	752.1	29.0	— 1.7	100	s.	40	17.9			10n;fg		s.	0.42	10.7	light snow	S. W. Beall.
Nashville, Tennessee	29.29	744.0	29.86	758.4	64.0	17.8	73	nw.	18	8.0		0	4 ks		w.	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.48	748.8	29.60	751.8	46	7.8	93	n.	8	3.6			10 s		n.	0.27	6.9	cloudy	J. H. Sherman.
New London, Connecticut	29.52	749.8	29.57	751.1	51	10.6	100	ne.	2	0.9			fg.			1.56	39.6	dense fog	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.00	762.0	76.0	24.4	94	nw.	3	1.3			10 s			0.08	2.0	cloudy	H. C. Smyth.
New York, New York	29.42	747.3	29.60	751.8	51	10.6	93	ne.	5	2.2			fg.			0.19	4.8	dense fog	G. E. Franklin.
Norfolk, Virginia	29.65	753.1	29.68	753.9	72	22.2	84	s.	14	6.3		2 cs	0			0.69	17.5	clear	Wm. Davis.
North Platte, Nebraska	27.21	691.1	30.08	764.0	36.6	2.6	79	w.	5	2.2		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.94	760.5	29.98	761.5	48.0	8.9	86	n.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.97	735.8	30.13	765.3	45.5	7.5	91	nw.	4	1.8		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.45	748.0	29.47	748.5	20.9	— 6.2	100	n.	10	4.5			10 s			0.02	0.5	cloudy	P. H. Ray.
Oswego, New York	29.24	742.7	29.57	751.1	45.0	7.2	96	e.	7	3.1			10n;fg		e.	0.69	17.5	light rain	J. G. Linsley.
Palestine, Texas	29.47	748.5	30.02	762.5	74.0	23.3	90	s.	4	1.8			10 ks		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	29.96	761.0	29.99	761.7	77.0	25.0	95	sw.	5	2.2		6 c	1 ks	w.	sw.	1.12	28.4	fair	M. McGauran.
Philadelphia, Pa	29.52	749.8	29.62	752.3	55	12.8	93	w	2	0.9			fg.			0.07	1.8	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.82	452.6	29.88	758.9	17	— 8.3	87	sw.	39	17.4		0	0			0	0	clear	H. Hall.
Ploche, Nevada	23.85	605.8	29.77	756.1	36.0	2.2	66	se.	12	5.4		0	0			0	0	clear	F. B. Day.
Pittsburg, Pennsylvania	28.77	730.7	29.57	751.1	59.5	15.3	87	sw.	8	3.6			10 s		w.	1.18	30.0	cloudy	W. A. Reid.
Poplar River, Montana	27.90	708.6	30.02	762.5				se.			1	0	0			0.97	24.6	clear	W. D. Maxwell.
Port Huron, Michigan	29.04	737.6	29.72	754.9	38.4	3.6	100	n.	22	9.8			10 s		n.	0.27	6.9	cloudy	M. H. Perry
Portland, Maine	29.64	752.8	29.69	754.1	45	7.2	83	e.	11	4.9			10 n		e.	0	0	light rain	W. W. Eichelberger
Portland, Oregon	29.88	758.9	29.95	760.7	45.0	7.2	89	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C					73	22.8	100	sw.	32	14.3			10 s		sw.	0.03	0.8	cloudy	F. P. Chaffee.
Prescott, Arizona	24.64	625.8	29.74	755.4	45.2	7.3	44	s.	6	2.7		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.57	751.1	29.60	751.8	53	11.7	93	sw.	11	4.9			10 n		sw.	0.55	14.0	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.02	762.5	30.03	762.7	76	24.4	79	se.	6	2.7		0	2 k			0	0	clear	W. J. Evans.
Red Bluff, California	29.66	753.4	30.01	762.2	44	6.7	93	s.	7	3.1			10 n		s.	0.01	0.3	light rain	J. R. Williams.
Rochester, New York	28.95	735.3	29.61	752.1	40	4.4	100	n	10	4.5			fg.			0.79	20.1	dense fog	E. W. McGann.
Roseburg, Oregon	29.42	747.3	29.97	761.2	40.4	4.7	87	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.93	760.2	30.01	762.2	48.5	9.2	86	se.	5	2.2			10 s			inap.	inap.	cloudy	J. A. Barwick.
St. Louis, Missouri	29.39	746.5	29.98	761.5	49.7	9.8	89	nw.	17	7.6			10 s		nw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.30	744.2	29.33	745.0	33	0.6	100	ne.	3	1.3		0	6 s			0.16	4.1	fair	A. P. Leavitt.
St. Paul, Minnesota	29.15	740.4	29.99	761.7	40.0	4.4	65	calm	0	0		5 cs	0	s.		0	0	fair	P. F. Lyons
St. Vincent, Minnesota	29.20	741.7	30.06	763.5	40	4.4	82	nw.	4	1.8			10 s			0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.46	646.7	29.78	756.4	50.3	10.2	56	se.	1	0.4		1 c	1 s	sw.		0.19	4.8	clear	J. Craig.
San Antonio, Texas	29.25	742.9	29.95	760.7	77	25.0	82	se.	1	0.4			10 k		se.	0	0	cloudy	J. H. Davis.
San Diego, California	29.93	760.2	30.00	762.0	53.4	11.9	64	nw.	7	3.1		1 k	3 s	nw.	nw.	0	0	fair	A. C. Dobbins.
Sandy Hook, New Jersey	29.57	751.1	29.60	751.8	53.0	11.7	93	n.	3	1.3			10 s			0.30	7.6	cloudy	B. A. Blundon.
Sanford, Florida	29.94	760.5			77.0	25.0	79	s.	6	2.7		8 cs	0	w.		0	0	cloudy	J. B. Marbury.
San Francisco, California	29.94	760.5	30.01	762.2	50	10.0	89	sw.	5	2.2			10 n		sw.	0.11	2.8	light rain	N. Gorom.
Santa Fé, New Mexico	23.24	590.3	29.84	757.9	51	10.6	21	e.	13	5.8		10 c	0	sw.		0	0	cloudy	H. U. Jones.
Savannah, Georgia	29.84	757.9	29.93	760.2	76	24.4	79	sw.	10	4.5		10 cs	0	sw.		0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	20.30	668.0	29.90	759.4	42	5.6	82	e.	1	0.4		6 k	0	sw.		0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.73	755.1	29.97	761.2	71.5	21.9	89	nw.	2	0.9			10 s		nw.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.80	731.5	30.02	762.5	55	12.8	80	ne.	20	8.9		0	7 ks		se.	0	0	fair	W. M. Mattingly.
Sitka, Alaska	29.19	741.4	29.25	742.9	47	8.3	63	e.	20	8.9			10 s		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.60	751.8	30.07	763.8	55.2	12.9	74	nw.	3	1.3		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.80	756.9	29.84	757.9	72	22.2	90	w.	12	5.4			10 s		w.	0.02	0.5	threatening	O. Parker.
Spokane Falls, Wash. Ter.	27.91	708.9	29.96	761.0	41	5.0	82	calm	0	0		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.28	743.7	29.95	760.7	46	7.8	76	nw.	18	8.0			10 s		nw.	0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.60	726.4	30.02	762.5	48	8.9	86	nw.	12	5.4			10 s		nw.	0	0	cloudy	J. H. Bryce.
Starkville, Miss	29.47	748.5	29.94	760.5	74	23.3	84	w.	4	1.8		0	8 s		nw.	0	0	cloudy	O. Dill.
Stevenson, Fort, Dakota	28.26	617.8	30.09	764.3	42	5.0	82	n.	2	0.9		0	8 s			0	0	cloudy	A. Schneider.
Stockton, Fort, Texas	26.88	682.7	29.89	759.2	68	20.0	93	se.	14	6.3		9 k	0	se.		0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass	29.54	750.3	29.59	751.6	45.5	7.5	93	nw.	15	6.7			10 n			0.38	9.7	light rain	G. Liebmann.
Thomas, Camp, Arizona	27.10	689.9	29.83	757.7	51	10.6	48	sw.			1	7 cs	0			0	0	fair	J. T. Fitzgerald.
Toledo, Ohio	29.01	736.8	29.69	754.1	44	6.7	83	n.	13	5.8			10 n		n.	1.29	32.8	light rain	A. Buell.
Tucson, Arizona	27.48	698.0	29.82	757.4	55	12.8	47	calm	0	0		2 cs	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.41	747.0	29.43	747.5	40	4.4	73	sw.	20	8.9			10 s			0	0	cloudy	Samuel Applegate.
Yerde, Fort, Arizona					49	9.4	52	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.73	755.1	29.98	761.5	74.0	23.3	90	sw.	5	2.2		8 ck	0	nw.		0	0	cloudy	James Kenealy.
Visalia, California	29.04	752.8	30.00	762.0	38.8	3.8	88	ne.	1	0.4		0	0			0.02	0.5	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.42	620.3	29.90	759.4	37.7	3.2	96	w.	3	1.3		7 k	0			0.04	1.0	fair	T. M. Ambler.
Washington, D. C	29.56	750.8	29.67	753.6	56.8	13.8	95	s.	4	1.8			10 n		sw.	0.67	17.0	light rain	T. B. Harrison.
West Las Animas, Colorado	26.17	664.7	30.02	762.5	39.5	4.2	78	e.	5	2.2		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa	28.98	736.1	29.58	751.3	50.5	13.6	72	ne.	1	0.4			10 s			0.26	6.6	threatening	B. F. Hough.
Wilmington, N. Carolina	29.78	756.4	29.83	757.7	69	20.6	93	sw.	4	1.8			10 n		w.	0.97	24.6	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.40	645.1	29.75	755.0	40	4.4	89	ne.	6	2.7			10 s		ne.	0.30	9.1	cloudy	J. Grover.
Yankton, Dakota	28.85	732.8	30.13	765.3	46	7.8	68	w.	5	2.2		0	0			0.02	0.5	clear	J. H. Atfield.
Yuma, Arizona	29.75	755.6	29.90	759.4	54.5	12.5	52	nw.	11	4.9		0	hz.			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			56.0	13.3	77	s.	1	0.4			10s;n		nw.	0.29	7.4	raining	Joaquin Gomez.
Kingston, Jamaica, W. I			29.98	761.5			75	nw.	3	1.3			8 s			0	0	cloudy	Robert Johnston.
Paramaribo, S. A	30.00	762.0	30.00	762.0	77	25.0	86	se.			2	4 c	3 s	e.		0.360	9.1	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.34	745.2	29.90	759.4	80	26.7	89	calm			0		10 ks		s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A					79	26.1	91	ne.			1					0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I																			Aug. Walloe.
Santiago de Cuba, W. I	29.95	760.7	29.98	761.5	80	26.7	69	n.	4	1.8		0	0			0	0		R. Mason.
York Factory, B. A	29.93	760.2	29.99	761.7	37.5	3.1	95	sw.	22	9.8		3 c	2 s	sw.	sw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, Malta, Mediterranean	30.04	763.0	69	20.6	52	nnw.			1		1	nnw.						blue sky.
H. M. S. Dido, Barbadoes, W.I.	29.97	761.2	82	27.8		e.			3		4	e.				2	nw.	d. clouds.
H. M. S. Flamingo, N. 31° 26′, W. 66° 00′	30.13	765.3	72	22.2	79	e.			2		0					1	ese.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.90	759.4	70	21.1	75	nne.			1–3		0							squally.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.94	760.5	62.5	16.9	80	nw.			2		7	sw.						d. clouds.
H. M. S. Neptune, N 48° 03′, W. 6° 23′	30.03	762.7	57	13.9		ese.			1		4	ese.				2	wsw.	d. clouds.
H. M. S. Rocket, N. 38° 32′, W. 28° 38′	30.52	775.2	63	17.2	78	nne.			2		3							d. clouds.
H. M. S. Tyne, Balize, British Honduras	29.89	759.2	83	28.3	83	e.			3		3	ne.				1	e.	misty.
H. M. S. Tenedos, Halifax, N. S.	30.01	762.2	44	6.7	92	se.			2		8	w.						d. clouds.
U. S. Navy Yard, Pensacola, Fla.	29.97	761.2	78	25.6	91	sw.	4	1.8			5		sw.	0.82	20.8			fair.
U. S. Navy Yard, Portsmouth, N. H*	29.64	752.8	45	7.2	76	ne.	20	8.9			10		ne.	0.50	12.7			raining.
U. S. S. Alliance, Norfolk, Va	29.69	754.1	71	21.7	95	ssw.			3		8			h'vy	hv'y			cloudy.
U. S. S. Colorado, New York, N. Y.	29.71	754.6	51	10.6	86	ne.	3	1.3			10			0.05	1.3			foggy.
U. S. S. Franklin, Norfolk, Va	29.66	753.4	72	22.2	95	ssw.	24	10.7			5		ssw.	0.23	5.8			fair.
U. S. S. Jamestown, N. 41° 03′, W. 71° 07′	29.62	752.3	51	10.6	100	sw.			5		10		sw.			mod.	sw.	foggy.
U. S. S. Kearsarge, Hampton Roads, Va	29.71	754.6	69	20.6	90	ssw.			5		5		sw.					fair.
U. S. S. Lancaster, N. 55° 17′, E. 20° 32′	30.25	768.3	47	8.3	92	s.			3		0					sm'h		hazy.
U. S. S. Michigan, Erie, Pa.	29.57	751.1	43	6.1	83	nne.			4		10		n.					cloudy.
U. S. S. Minnesota, New York, N. Y.	29.60	751.8	56	13.3	94	nne.			1		10		nne.					foggy.
U. S. S. New Hampshire, Newport, R. I.	29.56	750.8	54	12.2	100	w.			1		10		calm			sm'h		raining.
U. S. S. Portsmouth, off Block Island, R. I.	29.70	754.4	52	11.1	79	ssw.			3							sm'h		drizzling.
U. S. S. Powhatan, N. 10° 53′ W. 75° 44′	29.82	757.4	82	27.8	96	s.			4		5					long	e.	fair.
U. S. S. Quinnebaug, Cape Palmas, Liberia, Africa	29.89	759.2	79	26.1	91	sw.			2		10		sw.			long	sw.	raining.
U. S. S. Saratoga, N. 36° 16′, W. 71° 44′	29.91	759.7	69	20.6	95	sw.			6		2		sw.	0	0	mod.	sw.	fair.
U. S. S. St. Louis, League Island, Pa.	29.63	752.6	55	12.8	87	calm	0	0			10		w.	0.04	1.0			cloudy
U. S. S. Swatara, N 20° 00′, W. 86° 42′ †	29.94	760.5	81	27.2	87	ne			4		2		ne.	0	0	sm'h		fair.
U. S. S. Tennessee, Fort Monroe, Va.	29.70	754.4	70	21.1	90	sw.	18	8.0			5			0	0			clear?
U. S. S. Vandalia, Hampton roads, Va	29.68	753.9	69	20.6	95	ssw.			5		5		ssw.					fair.
U. S. S. Wabash, Boston, Mass.	29.63	752.6	55	12.8	93	ne.	10	4.5			10		e.	0.31	7.9			cloudy.
U. S. S. Yantic, Hampton Roads, Va.	29.69	754.1	69	20.6	90	sw.			4		8							fair.
Commewyne, N. 41° 06′, W. 37° 51′	30.42	772.7	63.3	17.4	71	sse.			5		3		e.					d. clouds.
S. S. British Prince, N. 50° 37′, W. 14° 06′ †	30.22	767.6	50	10.0		ne.			4		2		ne.	2 h'r	2 h'r	sli't	nne.	clear.
S. S. Illinois, Liverpool, Eng*	30.10	764.5	62	16.7		nw.			2		7		wsw.					fair.
S. S. Ohio, N 49° 50′, W. 21° 03′†	30.30	769.6	50	10.0	79	w.			2		2		nw.	0	0	mod	nw.	clear.
S. S. Pennsylvanian, N. 39° 22′, W. 65° 35′ †	29.89	759.2	67	19.4		ese.			1		2		se.			sm'h	se.	fair.
S. S. Circassian, Montreal, Canada	29.65	753.1	46	7.8	92	ne			2		10		e.	0	0			overcast.
S. S. Grecian, N. 47° 44′, W. 59° 35′	29.97	761.2	36	2.2	80	ssw.			4		3		sw.	0	0	sm'h		clear.
S. S. Polynesian, Quebec, Canada	29.83	757.7	47	8.3		nnw.			1		8		n.	0	0			cloudy.
S. S. Manitoban, N. 47° 00′, W. 57° 15′	30.14	765.5	35	1.7	80	wsw.			2		2		s.	0	0	sm'h	w.	clear.
S. S. Sardinian, N. 43° 11′, W. 55° 14′	30.16	766.1	46	7.8		ene.			3		4		e	0	0	long	ese.	fair.
S. S. Jason, N. 49° 18′, W. 12° 34′			53.6	12.0		ne.			3		4 k					3	nne.	
S. S. Alvo, N. 28° 02′, W. 74° 18′	30.10	764.5	75	24.4		ene.			3–4	4 cs	0	ne.		0	0	sli't	ene.	fine.
S. S. Alene, N. 27° 10′. W. 74° 14′ †	30.11	764.8	75	23.9		ene.			3		0			0	0	sm'h		clear.
S. S. Alisa, Fijardo, Porto Rico, W. I †	30.00	762.0	85	29.4		ne.			2									
S. S. Anchoria, N. 50° 13′, W. 35° 27′ †	30.12	765.0				s.			6		7		sw.	shr's	shr's	mod.	wsw.	cloudy.
S. S. Assyria, N. 41° 08′, W. 52° 27′	30.19	766.8	57	13.9		ne.			4		3		ne.	3 h'r	3 h'r	sli't	n.	clear.
S. S. Bolivia, Innistrahull, Ireland*†	30.27	768.8	56	13.3		calm					0			0	0	sm'h		clear.
S. S. Dorian, New York, N. Y.	29.59	751.6																
S. S. Devonia, N. 55° 02′, W. 12° 50′*†	30.15	765.8	50	10.0		n.			1–2		1		ne.			sli't	n	clear.
S. S. Furnessia, N. 44° 55′ W. 41° 01′†	30.13	765.3	62	16.7	88	s.			8		4		sw.	0	0	long	sw.	cloudy.
S. S. Elysia, N. 41° 25′, W. 61° 00′	30.01	762.2	52.6	11.4	67	sw.			2		5		w.	0	0	sm'h	n.	fair.
S. S. Llandaff City, N. 42° 45′, W. 51° 35′			48	8.9		calm			0		2			6 h'r	6 h'r	h'vy	s.	clear.
S. S. Bothnia, N. 50° 25′ W. 22° 15′	30.27	768.8	55	12.8	100	var.			2		10			20 h'r	20 h'r	con		rainy.
S. S. France, N. 47° 58′, W. 20° 38′†	30.15	765.7	51.8	11		n.			4		5		sw.	0	0	sm'h	nw.	fair.
S. S. Ville de Marseilles, N. 19° 45′, W. 73° 19′*	30.05	763.3	79	26.1		se.			3		0			0	0	sm'h		clear.
S. S. Arizona, N. 49° 27′, W. 27° 00′	30.19	766.8	46	7.8		wsw.			3		10		w.	6 h'r	6 h'r	mod.	w.	raining.
S. S. Wisconsin, N. 40° 50′ W. 63° 54′	29.68	753.9	52	11.1		s.			2		8		ssw.	0	0	sm'h		cloudy.
S. S. Wyoming, N. 50° 14′, W. 25° 53′	30.17	766.3	46	7.8		s.			6		8		s.	14 h'r	14h'r	long	ne.	drizzling
S. S. Bohemia, Hamburg, Germany						ese.			3		1		ese.	0	0			fair.
S. S. Gellert, N. 44° 06′, W. 42° 10′	30 21	767.3	66	18.9	84	ese.			5		8		w.	0	0	long	sw.	foggy.
S. S. Rugia, N. 41° 22′, W. 55° 40′	30.16	766.1	61	16.1		ne.			5		2		ne.	0	0	mod.	ne.	fair.
S. S. Silesia, New York, N. Y.	29.62	752.3	52.5	11.4		calm			0		fg.			4 h'r	4 h'r			foggy.
S. S. Westphalia, New York, N. Y.			53	11.7	86	w.			5		6		n.	5 h'r	5 h'r			misty.
S. S. Wieland, N. 48° 17′, W. 22° 17′	30.36	771.1				wnw.			3		4		wnw.	4 h'r	4 h'r	mod.	nw.	raining.
S. S. City of Paris, off Ormes Head, Wales*	30.06	763.5				calm			0		0			0	0	sm'h		clear.
S. S. Bulgarian, N. 42° 24′, W. 54° 13′	30.20	767.1				e.			1		1			0	0	light	sw.	clear.
S. S. Colorado, New York, N. Y†	29.60	751.8	50	10.0		e.			2		10		e.	hv'y	hv'y			foggy.
S. S. Rio Grande, N. 27° 22′, W. 79° 40′*†	30.06	763.5	79	26.1		s.			1		1		nw.	0	0	mod.		clear.
S. S. San Marcos, N 31° 50′, W. 79° 54′	29.82	757.4	76	24.4		sw.			5		5		wsw.					fair.
S. S. Chalmette, Algiers, La†	30.10	764.5	74	23.3		calm			5					½ h'r	½ h'r			foggy.
S. S. New York, N. 25° 15′. W. 84° 00′ *†	30.04	763.0	78	25.6		se.			3		0					mod.		clear.
S. S. Alleghany, Hampton Roads, Va			65	18.3		sw.			4		4		w.	0	0			fair.
S. S. Archimede, N. 38° 12′ W. 57° 47′†	30.20	767.1	66	18.9	64	ene.			2		3		ene.	0	0	r'gh	var.	clear.
S. S. Denmark, N. 49° 00′, W. 16° 49′			50	10.0		n.			4		2		n.	0	0	sli't	n.	clear.
S. S. Egypt, N. 52° 12′. W 7° 43′*†	30.18	765.6	49	9.4		calm			0		5		e.	0	0	sm'h		hazy.
S. S. England, N. 40° 50′, W. 55° 43′.	30.11	764.8	56	13.3		e.			3		2		e.	0	0	sli't	e.	clear.
S. S. Greece, N. 40° 27′, W. 57° 54′*	30.09	764.3	61	16.1	71	e.			2		1		s.	0	0	mod.	e.	clear.
S. S. Helvetia, New York, N. Y.	29.64	752.8	54	12.2	87	e.			1		10		e.	12 h'r	12 h'r			hazy.
S. S. America, Start Point, Eng*	30.12	765.0	57.5	14.2	90	calm			0		10			0	0	light	sw.	hazy.
S. S. Braunschweig, N. 40° 55′, W. 50° 40′	30.09	764.3	58.5	14.7	56	nne.			5		9		nne.	8 h'r	8 h'r	mod.	var.	cloudy.
S. S. Fulda, N. 44° 21′, W. 41° 33′	30.12	765.0	62	16.7	94	sw.			6		10		var.	0	0	r'gh	wsw.	cloudy.
S. S. Hohenzollern, N. 46° 24′, W. 30° 33′*	30 34	770.6	59.0	15.0		wsw.			4		1		wsw.	6 h'r	6 h'r	mod.	wsw.	clear.
S. S. Hohenstaufen, off Lizard Point Eng	30.11	764.8				se.			2		3		se.			light	w.	drizzling.
S. S. Main, N. 46° 14′, W. 34° 45′	30.33	770.4	59.0	15.0		sw.			4		2		n.	0	0	mod.	sw.	clear.
S. S. Neckar, N. 41° 56′, W. 46° 30′	30.14	765.5	62.0	16.7	97	ssw.			6		9		ssw.	rain	rain	cross	sw.	stormy.
S. S. Oder, Southampton, Eng.	30.11	764.8	68.9	20.5		n.			1		8		nw.	2½h'r	2½h'r			cloudy.
S. S. Ohio, N. 49° 27′, W. 10° 17′	30.10	764.5				ene.			2		0			5 h'r	5 h'r			clear.
S. S. Strassburg, N. 47° 42′, W. 21° 50′	30.32	770.1	53.5	11.9	73	wsw.			2		10		nnw.	1 h'r	1 h'r	4	n.	cloudy.
S. S. Orinoco, New York, N. Y*†	29.60	751.8	66	18.9		n.			2		fg			4 h'r	4 h'r			foggy.
S. S. Colon, N. 23° 42′, W. 74° 12′†	30.05	763.3	75	23.9		ese.			4		3		ese.	0.	0	small	ese.	fair
S. S. Muriel, N. 26° 10′, W. 66° 05′			82	27.8		nne.			4		0			0	0	mod.	ene.	clear.
S. S. City of Augusta, Savanah, Ga	30.05	763.3				wsw.			7		10		sw.	0	0			cloudy.
S. S. Belgenland, Antwerp, Belgium †	30.16	766.1	82	27.8	91	wnw.			3		1			½h'r	½h'r			clear.
S. S. Rhynland, N. 40° 53′, W. 54° 00′	30.21	767.3	58	14.4	82	e			5		6		ese.	8 h'r	8 h'r	var.		fair.
S. S. Pennland, N. 48° 26′ W. 14° 16′	30.19	766.8	54	12.2	74	ne.			4		2		e.	2 h'r	2 h'r	high	wsw.	clear.
S. S. Waesland, N. 40° 40′, W. 56° 35′	30.20	767.1	50	13.3		n.			2		3		se.	0	0	sm'h	n.	clear.
S. S. Zeeland, N. 39° 50′, W. 70° 30′*†	29.60	751.8	52	11.1		s.			6				s.	12 h'r	12 h'r			cloudy.
S. S. P. Caland, Rotterdam, Holland	30.03	762.7	74.3	23.5	72	e.			3		3		ne.					fair.
S. S. Rotterdam, N. 43° 02′, W. 52° 06′	30.25	768.3	57	13.9	93	nw.			1		1			4 h'r	4 h'r	4	nnw.	clear.
S. S. Schiedam, N. 43° 09′, W. 42° 38′	30.16	766.1	68.2	20.1	83	sw.			6		8		wsw.	0	0	long	sw.	cloudy.
S. S. W. A. Scholten, New York, N. Y.	29.62	752.3	51.9	11.1	94	ne.			2		10			10 h'r	10 h'r			foggy.
S. S. Zaandam, N. 49° 50′, W. 11° 28′	30.16	766.1	60.8	16.0	79	n.			3		0			0	0	3	wsw.	clear.
S. S. Caracas, N. 36° 18′, W. 72° 26′ †	29.92	760.0	74.5	23.6	88	ssw.			7				sw.	3 h'r	3 h'r	r'gh	ssw.	threatening
S. S. Valencia, N. 13° 09′ W. 68° 45′ †	30.10	764.5	83	28.3	83	e.			5		3		e.	0	0	mod.	ene.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. State of Florida, N. 42° 02′ W. 58° 19′			57	13.9		w.			2		7		w.		0	sm'h		fair.
S. S. State of Georgia, N. 54° 05′, W. 22° 26′†	30.23	767.8	51	10.0		s.			6		10		s.	6 h'r	6 h'r	long	n.	hazy.
S. S. State of Nevada, N. 55° 25′, W. 8° 35′†	30.19	766.8	55	12.8		var.			1		1		n.	0	0	light	nw.	clear.
S. S. State of Alabama, N. 39° 34′, W. 49° 17′ *	29.94	760.5	65	18.3		s.			7		10		s	rain	rain	mod.	s.	raining.
S. S. Marengo, N. 46° 15′, W. 37° 22 †	30.41	772.4	62	16.7		s.			6		8		s.	5 h'r	5 h'r	rg'h	s.	cloudy.
S. S. Otranto, N. 40° 27′, W. 73° 13′	29.73	755.1	56	13.3		ne.			3		10		ne.	6 h'r	6 h'r	sm'h		foggy.
S. S. Romano, N. 44° 53′. W. 32° 19′†	30.41	772.4	62	16.7		w.			4		1		w.			mod.	ene.	clear.
S. S. Oregon, Montreal, Quebec	29.63	752.6	46	7.8		ene.			2		4		ese.			mod.	se.	fair.
S. S. Daniel Steinmann, N. 45° 08′, W. 42° 50′†	30.16	766.1	61	16.1		nne.			2		0?			2 h'r	2 h'r	mod.	s.	raining.?
S. S. Planlyn, N. 39° 53′, W. 61° 27′	30.08	764.0							4		4		se.	0	0	long	e.	fair.
S. S. Norman, Boston, Mass.	29.56	750.8				se.			1		10		e.	7 h'r	7 h'r			cloudy.
S. S. Saxon, Philadelphia, Pa†	29.66	753.4									10			0	0			
S. S. Baltic, N. 40° 40′ W. 72° 22′*	29.60	751.8	56	13.3	81	wsw.			4		fg.			4 h'r	4 h'r	sl't	wsw.	foggy.
S. S. Germanic, N. 47° 58′, W. 38° 55′			60	15.6		ssw.			6		10			5 h'r	5 h'r	r'gh	sw.	gloomy.
S. S. Iowa, N. 49° 01′, W. 19° 36′†	30.28	769.1	56	13.3		n.			3		3		n.	4 h'r	4 h'r	sm'h	n.	clear.
S. S. Assyrian Monarch, N. 50° —′, W. 24° —′	30.17	766.3	48	8.9		nnw.			4		2		nw.			cross	var.	clear.
S. S. Antonio Lopez, N. 32° 52′, W. 44° 56′	30.34	770.6	70.5	21.4	82	se.			4		1			0	0	mod.	se.	clear.
Schr. Abbie H. Gheen, N. 35° 30′, W. 75° 15′†	29.80	756.9	66	18.9		ssw.			6					0	0			squally.
Bg. Abbie Clifford, N. 19° 38′, W. 68° 24′†	30.03	762.7	81	27.2		ne.			3		2			0	0	mod.	n.	clear.
Bk. Alpha, N. 44° 40′, W. 44° 50′*†	30.12	765.0	50	10.0		n.			3		5		n.	6 h'r	6 h'r	r'gh	sw.	fair.
Bg. Alcira, Maracaybo, Venezuela	29.94	760.5	81	27.2		e.			1		5		ene.	0	0			fair.
Bk. Adelaide, N. 26° 17′, W. 44° 19′ *†	30.32	770.1	76	24.4		ese.			5		1		se.	0	0	mod.	se.	clear.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.08	764.0	85	29.4		ene.			1		1		e.	2 h'r	2 h'r			clear.
Schr. Arthur Burton, N. 35° 13′, W. 74° 56′ *†	29.82	757.4				ssw.			3		10		sw.	1 h'r	1 h'r	hv'y	s.	threatening
Bk. Achille F., N. 13° 30′, W. 26° —′†	29.99	761.7	74	23.3	80	n.			5		5		nne.	0	0	long	nne.	hazy.
Bg. Annie R. Storer, Salt Cay, W. I†	30.10	764.5				ene.			2		2		ene.	0	0			clear
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.92	760.0	81	27.2		ene.			1		2		ene.	2 h'r	2 h'r			fair.
Bg. Belle of the Bay, N. 36° 25′, W. 74° 50′†	29.73	755.1				s.			5		6		sw.	7 h'r	7 h'r	chop	sw.	fine.
Bk. Champion, N. 20° 32′, W. 58° 31′			78	25.6	82	sse.			2		2		sse.	5 h'r	5 h'r	short	sse.	clear.
Bkt. C. S. Bushnell, N. 36° 48′, W. 66° —′	30.10	764.5				s.			5		2		nw.	0	0	sm'h	s.	fine.
S. Cornelius, N. 49° 42′, W. 10° 53′†	30.05	763.3	52.2	11.2		e.			3		5		nw.	0	0	mod.	nw.	fair.
Bk. Childwall, N. 24° 22′, W. 43° 20′			74	23.3		ene.			5		2		ene.	0	0	light	ene.	clear.
Schr. Clotilde, N. 35° 38′, W. 71° 39′ *†	29.86	758.4	75	23 9		ssw.			6		5		sw.	0	0	h'vy		fair.
S. Criterion, off Maidens Light, Ireland			57	13.9		calm			0		fg.			0	0	sm'h		dense fog.
S. David Steward, N. 33° 47′, W. 56° 39′						ne.			3		3		nne.	0	0	mod.	ne	hazy.
Bkt. David A. Preston, N. 29° 40′, W. 66° 00′			76	24.4		s.			6		5		sw.	4 h'r	4 h'r	mod.	s.	
Schr. Edith R. Seward, Port Maria, Jamaica, W I†	30.04	763.0	86	30.0		e.			1		2		e.	0	0	sm'h		clear.
S. E. J. Spicer, Liverpool, Eng	30.12	765.0	57	13.9	87	nnw.			3		2		nw.	sh'rs	sh'rs			clear.
Bk. E. D. Bigelow, N. 42° 50′, W. 62° 05′ *†	29.86	756.9				se			3		5		sw.	0	0			fair.
U. S. Fish. Com. S. S. Fish Hawk, Glymont, Md†	29.84	757.9	63	17.2	89	sse.			1		10		sse.	0.02	0.5			cloudy.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.05	763.3				sw.			5		5			0	0			threatening.
S. Festina Lente, off Point des Monts, Canada	29.73	755.1	45	7.2		wsw.			2		1		w.	0	0			clear.
Bk. George Davis, N. 37° 54′ W. 57° 19′						ne.							n.	0	0	sm'h	sw.	
Bk. Gronsaver, N. 8° 00′, W. 42° 58′†	29.90	759.5	80.6	27.0		ne.			6		5		ne.	0	0	long	ne.	fair.
Bg. Gipsy Queen, N. 39° 00′, W. 74° —*†	29.60	751.8				s.			2		fg.					short	sw.	foggy.
Bk. Galeon, N. 20° 49′ W. 90° 33′ †	29.96	761.0	77	25.0		e.			2		0			0	0	sm'h	se.	blue sky.
S. Hedwig, N. 40° 19′, W. 37° 13′	30.49	774.4	64.6	18.1	77	s.			5		3		s.	0	0	3	n.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C*†	29.90	759.4	44	6.7		s.			5		8		sse.	0	0			threatening.
Bk. John H. Pearson, N. 30° 36′, W. 37° 20′						e.			4				e.	0	0	long	n.	cloudy.
Bk. Cato, N. 43° 44′, W. 12° 00′*†	30.04	763.0				n.			1		1		w.	0	0	sm'h	nw.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	29.98	761.5				calm			0		3			0	0			fair.
Schr. Jennie N. Huddell, Baltimore, Md†	29.66	753.4	63	17.2	100	sw.			1		10		sw.					raining.
Bkt. Josephine, N. 18° 48′, W. 57° 04′†	30.00	762.0	82	27.8	63	se.			4		2		se.	0	0	long	e.	fair.
Schr. Leonessa, Baltimore, Md†	29.63	752.6				wsw.			1		10		sw.	2 h'r	2 h'r			cloudy.
Bg. L. & W. Armstrong, N. 25° 39′, W. 69° 45′*†	30.14	765.5				ene.			1		1		nne.	0	0	sm'h	nne.	fine.
Light House Tender, Laurel, St. Andrews Bay, Fla†	30.00	762.0	77	25.0		wsw.			3		8		w.	1 h'r	1 h'r			cloudy.
Bg. Lillian, N. 10° 13′, W. 57° 12′†	29.89	759.2	82	27.8		ene.			5		3		e.	0	0	mod.	ese.	fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	78	25.6		se.			1		0			0	0			clear.
S. S. Madrid, Ancona, Italy†	30.06	763.5	70	21.1	80	w.			1		0			0	0			clear.
Schr. Minnie A. Bonsall, N. 33° 55′, W. 76° 15′†.	29.85	758.2	72	22.2		sw.			6		10		ssw.	2 h'r	2 h'r	r'gh	ssw.	cloudy.
Bkt. Kryolith, N. 60° 18′, W. 50° 15′ *†	29.24	742.7				w.			5		8		w.	0	0	h'vy	e.	cloudy.
S. Mt. Washington, N. 4° 40′, W. 26° 27′*†	30.00	762.0	85	29.4	76	baff			1–2		7		var.	10 h'r	10 h'r	r'gh	var.	cloudy.
Bgt. Myrtle, N. 36° 26′ W. 59° 03′*†	30.20	767.1				n			2		1		nne.	0	0	r'gh	nw.	clear.
Bk. Matthias, N. 39° 16′, W. 53° 28′*†	30.26	768.6	61	16.1		n			4		10		nne.	4 h'r	4 h'r	long	ssw.	
Schr. Maggie Abbott, N. 28° 41′, W. 75° 55′†	30.05	763.3				s.			3		3		s.	0	0	long	e.	clear.
S.S. Mendoza, N. 6° 05′, W. 42° 01′†	30.00	762.0				ene.			2				ene.	0	0	chop	ne.	clear.
Schr. Maud Briggs, N. 24° 23′, W. 57° 54′*†	30.11	764.8				calm			0		2			0	0	sm'h	se.	clear.
Bk. Ottawa, N. 39° 54′, W. 55° 40′*	30.06	763.5	60	15.6		e.			4		10		sw.	3 h'r	3 h'r	mod.	ssw.	cloudy.
S. S. Raleigh, N. 31° 10′, W. 74° 35†	30.08	764.0	75	23.9		ssw.			3		0					light	ssw.	clear.
S. Rudolph, Beachy Head, Eng			54.0	12.2		calm			0		1		se.	4 h'r	4 h'r	sm'h	se.	clear.
Bk. Rebus, N. 49° 12′, W. 8° 28′	30.08	764.0	52	11.1		ne.			1		2		ne.	light	light	mod.	wsw.	clear.
Bg. Rising Sun, N. 39° 45′, W. 71° 45′*†	29.60	751.8	58	14.4		sw.			6		10		w.	0	0	long	sw.	foggy.
Bk. Rosalie Saint John, Antigua, W. I*†	29.97	761.2				ese.			2				se.	4 h'r	4 h'r			cloudy.
Bk. Scud, N. 35° 00′, W. 67° 11′*†	30.10	764.5	71	21.7		s.			6		4		s.	0	0	sm'h		clear.
Bk. Southern Belle, Huelva, Portugal †	29.92	760.0				w.			3					0	0			cloudy.
S. St. Francis, N. 31° 50′ W. 42° 00′†	30.47	773.9	72	22.2	85	e.			4		3		ne.	0	0	mod.	n.	fair.
Bk. St. Lawrence, N. 10° 47′, W. 57° 47′*†	29.90	759.4				e.			5				e.	0	0	r'gh	se.	clear.
Bgt. Sunlight, Demerara, British Guiana *†	30.11	764.8				ese.			2		4		ese.	1 h'r	1 h'r			fair.
Bk. Tuck Sing, N. 36° 55′, W. 72° 50′ *†	29.83	757.7				ssw.			6		5		sw.	2 h'r	2 h'r	short	sw.	squally.
Bk. Usko, N. 42° 15′, W. 48° 54′ *	30.13	765.3	47	8.3		n.			2		2		nne.	6 h'r	6 h'r	long	s.	fair.
S Vincenzo Accame, N. 37° 30′, W. 00° 16′†..	30.21	767.4	62.6	17		e.			3		4		ne.	0	0	r'gh	nw.	fine.
Schr. Viola Reppard, N. 38° 58′, W. 73° 38′ †	29.77	756.1	64	17.8		sw.			2		10		sw.	1 h'r	1 h'r	r'gh	sw.	foggy.
Bk. Winifred, N. 22° 58′, W. 62° 10′ *†	30.05	763.3											var.	sq'lls	sq'lls			squally.
S. Wm. McGilvery, N. 12° 07′, W. 33° 24′*†	30.05	763.3	76	24.4	82	ene.			5		8		se.	0	0	mod.	ene.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay *†	30.20	768.6	48	8.9	90	n.			1		2	ne.						d. clouds.
H. M. S. Boadicea, Cape Town, Cape Colony	29.89	759.2	64	17.8	94	wnw.			4		5							squally.
H. M. S. Sylvia, Montevideo, Uruguay	30.12	765.0	45.2	7.3	98	n.			1		8	sw.						d. clouds.
H. M. S Thetis, S. 28° 14′ W. 32° 33′	29.98	761.5	73	22.8	90	nnw.			5		7					2	sw.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.09	764.3	50	10.0	93	n.	4	1.8			10		calm	0	0	sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	30.08	764.0	44	6.7	?	nnw.			1		9		nnw.			sm'h		cloudy.
May Hulse, S. 53° 34′, W. 51° 05′	29.26	743.2	41	5.0	87	nnw.			3		5							d. clouds.
S.S. Hevelius, Buenos Ayres, LaPlata†	30.15	765.8	59	15.0		n.			2		7		nw.	0	0			fair.
S. Minnie N. Gerow, S. 30° 11′, W. 25° 29′†..	30.00	762.0	74	23.3		nnw.			3		2		n.	0	0	sm'h	nnw.	clear.
S. Paramita, S. 34° 13′, W. 37° 25′†	30.04	763.0	67	19.4		sw.			2–3		1		sw.	0	0	long	sw.	clear.
S. Storm King, S. 51° 06′, W. 63° 09′ *†	29.55	750.6				nne.			1		0		w.	0	0	mod.	sw.	fair.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.81	757.2	63	17.2	94	n.			1		10	n.						overcast.
H. M. S. Champion, N. 13° 22′, E. 100° 34′	29.74	755.4	85	29.4	83	s.			2		7					4	s.	d. clouds.
H. M. S. Sappho, N. 9° 00′, W. 84° 00′	29.87	758.7	81	27.2	100	nw.			1		5	nw.				3	sw.	d clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 05′	29.72	754.9	54.5	12.5	87	wnw.			2		4	wnw				1	nnw.	misty.
H. M. S. Magpie, N. 21° 12′, E. 114° 51′	29.84	757.9	81.7	27.0	87	s.			3		0					2	s.	blue sky.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Swiftsure, Esquimalt, V. Id	30.02	762.5	49	9.4	85	calm			0		1	ssw.						blue sky
H. M. S. Zephyr, N. 33° 50′ E. 127° 20′	29.75	755.6	60	15.6	100	nw.			1		9	nw.				4	nw.	d. clouds
H.P. M. S. Tamega, Macao, China	29.85	758.2	84.2	29.0	85	sw.			5		3			0	0			d. clouds.
U. S. Naval Hospital, Yokohama. Japan	29.94	760.5	60.5	15.8	94	calm			0		10		ssw.	0.14	3.6			raining.
U. S. S. Adams, Prince of Wales Id, Alaska †	29.41	747.0	44	6.7	76	e.			7		10					mod.		light rain.
U. S. S. Monocacy, Salee river, Corea	29.71	754.6	59	15.0	82	calm			0		10		calm					misty.
U. S. S. Palos, Hong Kong, China	29.74	755.4	83	28.3	83	s.			1		8		ssw.					cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.73	755.1	83	28.3	91	sw.			2		5		sw.	0	0			fair.
S. S. Mexico, Guaymas, Mexico	29.94	760.5	70	21.1	75	nw.			1		0							clear.
S. S. Coptic, N. 41° 02′, W. 170° 18′	30.44	773.2	49.0	9.4	67	w.			4		7		w.	0	0	high	w.	fair.
S. S. Oceanic, N. 36° 32′, E. 147° 20′*	29.97	761.2	60	15.6	76	wsw.			2		6		w.			2	ne.	fair.
S. S. Willametta, Astoria, Oregon*†	30.03	762.7	53	11.7	93	wnw.			1		4		nw.	0	0			foggy.
S. S. Dakota, N. 39° 14′, W. 124° 10†	29.97	761.2	54	12.2	74	nw.			4		10		nw.	0	0	light	nw.	cloudy.
S. S. G. W. Elder, Victoria, B. C †			45	7.2	92	calm			0		0							clear.
S. S. Queen of the Pacific, San Francisco. Cal †	29.96	761.0				calm			0		8			2 h'r	2 h'r			raining.
S. S. State of California, Portland, Oregon †	29.96	761.0	43	6.1	92	calm			0		0							clear.
S. S. Australia, N. 14° 43′, W. 161° 14′	29.93	760.2	75	23.9	95	e.			6		8		e.	2 h'r	2 h'r	long	e.	cloudy.
S. S. City of New York, N. 33° 18′, W. 135° 57′ †	30.30	769.6	59	15.0	70	n.			4		10		n.	0	0	mod.	n	cloudy.
S. S. City of Pekin, N. 35° 26′, E. 141° 29′ †	29.90	759.5	64	17.8	94	s.			6		10		s.	0	0	mod.	s.	cloudy.
S. E. B. Sutton, N. 26° 30′, W. 130° 50′†	30.23	767.8	63	17.2	78	nne.			4		9		nw.	light	light	rg'h	nw.	cloudy.
S. S. Colima, N. 19° 44′, W. 105° 22′ †	29.92	760.0	76	24.4	86	nw.			2		7		nw.	0	0	sm'h		fair.
S. S. Granada, Acajutla, San Salvador †	29.87	758.7	82	27.8	79	calm			0		2		ne.	0	0	small		clear.
S. S. San José, N. 9° 03′. W. 84° 28′ †	29.86	758.4	80	26.7		wnw.			2		8 n		wnw.	0	0	short	ssw.	cloudy.
S. Armenia, N. 27° 35′, W. 132° 10′*	30.12	765.0	63	17.2	72	n.			5		10,		n.	0	0	r'gh	nnw.	overcast.
S. S. Benledi, N. 29° —′, E. 129° —′*	29.75	755.6	80	26.7	93	wsw.			4–5		7		var.	1 h'r	1 h'r	r'gh	sw.	raining.
Bk. Bore, Macassar, Celebes Id*†	30.22	767.6	85	29.4		ese.			1				wsw.	12 h'r	12 h'r	mod	sw.	fair.
S. Grecian. N. 8° 25′, E. 133° 44′†	29.93	760.2	82	27.8	91	wsw.			3		7		ne.	0	0	r'gh	nne.	squally.
S. Titan, N. 26° 00′, W. 136° 04′ *†	30.32	770.1	65	18.3	84	nne.			5		7		n.	0	0	sm'h	e.	clear.
Bk. Xenia, N. 19° 56′ E. 119° 10′			86	30.0		n.			2		2		e.	0.02	0.5	sm'h		hazy.
U. S. S. Ranger, N. 14° 46′. W. 92° 32′	29.88	758.9	82	27.8	83	ene.			1		5							
District No. 4—South Pacific.																		
H. M. S. Espiegle, S. 18° 08′, E. 178° 26′	29.96	761.0	76	24.4	73	sse.			2		10							d. clouds.
H. M. S. Kingfisher, S. 17° 32′, W. 149° 34′	29.89	759.2	80	26.7		calm			0		5							d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	30.09	764.3	58	14.4		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.48	748.8	65	18.3	94	wsw.			4		7							showery.
U. S. S. Hartford, S. 2 ′ 20′, W. 147° 25′ *	29.81	757.2	82	27.8	75	se.			4		8			0	0	sm'h		cloudy.
U. S. S. Iroquois, Valparaiso, Chili	30.15	765.8	56	13.3	87	ne.			2		10					sm'h		cloudy.
U. S. S. Lackawanna, S. 40° 53′, W. 129° 23′*	30.36	771.1	56	13.3	81	ene.			5–6		10		ne.			r'gh	ne.	cloudy.
U. S. S. Onward. Callao Peru†*	30.06	763.5	65	18.3	84	sse.			3		10		e.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.90	759.4	66	18.9	84	se.	5	2.2			8		se.	0	0			cloudy.
U. S. S. Wachusetts, S. 14° 03′ W. 170° 51′	29.82	757.4	79	26.1	91	sse.			2		8		sse.			sm'h		cloudy.
S. S. City of Sydney, Sydney, N. S. W *†.	29.74	755.4	63	17.2	83	sw.			2	c	10 n		sw.	0	0			cloudy.
S. S. Zealandia, Sydney, N S. W	29.76	755.9	60	15.6	82	calm			0		0							clear.
S. David Crocket, S. 30° 11′, W. 100° 26′*	30.00	762.0	66	18.9	92	sse.			6		9		sse.	18 h'r	18 h'r	cross	sse.	showery.
H. M. S. Lark, S. 27° 28′, E. 153° 03′	29.94	760.5	65.3	18.5		wsw.			1		2					sm'h		d. clouds
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.68	753.9	89	31.7		calm			0									blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.96	761.0	80	26.7	91	sse.			3		5	sse.				4	sse.	d. clouds
S. S. Tourmaline, N. 18° 55′, E. 58° 30′	29.79	756.7	84	28.9	79	sw.			3		0					1	s.	blue sky
H. M S. Woodlark, Bushire, Persia	29.75	755.6	90	32.2	63	w			2		2	wnw.						d. clouds.
U. S. S. Enterprise, Port Elizabeth, Cape Colony *	29.61	752.1	65	18.3	78	nw.			6		8		w.			mod.	nw.	cloudy.
U. S. S. Juniata, N. 24° 42′, E. 63° 08′	29.74	755.4	86	30.0	100	s.			3		2		s.	0	0	sm'h		hazy.
S. S. Salerno, N. 23° 33′, E. 36° 34′ †	29.90	759.4	85	29.4		s.			1		1		s.	0	0	sm'h	s.	clear.
Bk Alpheus Marshall, S. 35° 12′, E. 24° 03′ *†	29.57	751.1				w.			8		6		w.	0	0	h'vy	s.	threatening
S. Annie M Law, S. 22° 03′, E. 69° 40′ *†	30.12	765.0	72	22.2		sw.			1		0			0	0	con.	sw.	clear.
S. S. Burswell, N. 27° 47′, E. 33° 44′*†	29.89	759.2	83	28.3		nw.			4		0			0	0	sm'h		clear.
Bk. Ceylon, S. 28° 55′, E. 40° 14′*†	30.20	767.1	78	25.6	76	ne.			5		3		nne.	0	0	mod.	ene.	clear.
S. Dynomene, S. 37° 35′, E. 27° 50′	29.41	747.0	60	15.6	94	wnw.			9		8			mod.	mod.	mod.	var.	squally.
S. S. Malabar, N. 6° 55′, E. 80° 06′						sw.			4		5		sw.	0	0	h'vy	sw.	fair.
Bk. Pilgrim, S. 6° 07′, E. 109° 00′*†	29.90	759.4				ne.			2					0	0			fair.
S. S. Radnorshire, N. 5° 54′, E. 86° 21′*†	29.80	756.9				ssw.			6		0			0	0	mod.	sw.	clear.
S. St. David, S. 22° 17′, E. 99° 36′ *†	30.02	762.5	74	23.3	86	ssw.			4		6		var.	1 h'r	1 h'r	cross	var.	fair
S. S. Foscolia, N. 2° 38′, E. 61° 38′ †	29.92	760.0				w.			1		2		nw.	0	0	long	var.	clear.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 16, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.90	759.5	65.5	18.6	79	nw.			2		2			0.047	1.2	fair	Malaterre.
Algiers			29.95	760.7	67.6	19.8	78	ne.			1		0			0	0	clear	Thève.
La Galle			30.03	762.7	69.1	20.6	76	wsw.			1		1			0	0	very fair	Fonfréde.
Tunis			30.05	763.3															Jacques.
Saida			29.98	761.5															Pérès.
Tebessa			30.05	763.2	74.1	23.4	23	n.			2		1			0	0	very fair	St. Martin.
Geriville					71.2	21.8	26	sse.			6		3			0	0	pretty fair	Forfert.
Laghouat			29.98	761.6	77.7	25.4	23	sw.			3		0			0	0	clear	Abraham.
Biskra			30.06	763.4	83.8	28.8	36	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.87	758.7	56.4	13.6	80	sw.	21	9.4			7 k		sw.	1.039	26.4	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.59	751.6	29.68	753.9	56.0	13.3	80	n.	2	0.9			3			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.51	749.5	30.04	762.9	78.1	25.6	38	sw.			3		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.34	745.2	30.08	763.9	77.0	25.0	40	ene.	8.7	3.9			0			0	0		Dr. Wierzbiski
Eperies	29.20	741.6	30.04	762.9	77.0	25.0	51	calm			0		10 ks			inap.	inap.		Julius Mikolik.
Gratz	28.85	732.9	30.06	763.4	73.0	22.8	52	e.			2		5			0	0	lightning	Andreas Rospini.
Hermannstadt	28.61	726.6	29.97	761.3	75.0	23.9	57	s.			2		7			0.087	2.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.74	730.0	30.02	762.6	75.2	24.0	57	ne.			3		2			0	0	almost clear	The Staff.
Lemberg	29.13	739.8	30.06	763.7	79.2	26.2	31	ne.			4		6			0	0		Dr. T. Stanecki.
Neu Schmecks	26.79	680.5	30.08	763.4	65.7	18.7	68	calm			0		3			0.079	2.0		Dr. V. von Szontagh.
Pola	29.88	759.0	29.99	761.7	74.8	23.8	51	wnw.			2		1			0	0		I. R.Hydrographic Office.
Szathmar	29.53	750.0	29.98	761.5	82.6	28.1		e.			3		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.09	754.0	29.95	760.7	77.4	25.2	52	n.			1		5			0	0		Karl Stancel.
Trieste	29.96	760.9	30.06	763.4	75.2	24.0	48	sw.			1		6			0	0		Royal Academy.
Vienna	29.38	746.2	30.06	763.5	79.0	26.1	43	calm			0		1			inap.	inap.		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.29	769.4	30.39	771.9	51.0	10.6	72	ne.	17	7.6			3			0.070	1.8	blue sky	W. Boswell.
Armagh, Observatory	30.20	767.1	30.43	772.9	58.0	14.4	58	nnw.	4	1.8			3					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.39	771.9	57.2	14.0	69	wnw.	11	4.9			1					blue sky	John Hartnup.
Bolton, Sharples	29.82	757.4	30.36	771.1	64.9	18.3	94	nw.	12	5.4			2					blue sky	Thomas Mackereth.
Bradford, Yorkshire	30.02	762.5	30.41	772.4	64.8	18.2	41	s.			1		3			0	0	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	83.0	28.3	64	ne			2		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	30.23	767.8	30.33	770.4	70.0	21.1	55	ne.			0.6		1					blue sky	John McLaren.
Chatham, School M. E.	30.18	766.6	30.30	769.6	65.0	18.3	74	ne.			1		3					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	30.03	762.7	30.26	768.6	65.7	18.7	65	ene.			3		2					blue sky	The Staff.
Fort Napier, Natal	27.66	722.6	29.88	758.9	70.4	21.3	46	e.			1		2					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.69	754.1	29.92	760.0	84.0	28.9	68	se.			1		4					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	30.36	771.1	30.39	771.9	62	16.7	61	w.			1		2			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	69.0	20.6	90	e.			4		2					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.467	773.77	30.667	778.77	55.7	13.2	51	w.			3		8					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	30.14	765.5	30.31	769.9	71.7	22.1	56	ne.			2		3					blue sky	The Staff.
Guernsey	29.94	760.5	29.23	767.8	58.8	14.9	82	ne.			3		4					d. clouds	A. Coltenette, F. M. S.
Kew, Observatory	30.27	768.8	30.31	769.9	67.3	19.6	63	nne.	13	5.8			2					blue sky	The Staff.
Leicester, Museum	30.06	763.5	30.31	769.9	69.8	21.0	52	ne.			1		2					blue sky	J. C. Smith.
Malta, Mediterranean	29.98	761.5	30.05	763.3	68.4	20.2	84	n.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.94	760.5	29.99	761.7	80.5	26.9	60	sw.			3		2					blue sky	C. S. Duncombe.
Oscott, St. Mary's College	29.83	757.7	30.35	770.9	66.4	19.1	54	ne.			1		4					misty	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.10	764.5	30.33	770.4	67.3	19.6	56	nne.			3		5					d. clouds	The Staff.
Plymouth	30.17	766.3	30.25	768.3	69.0	20.6	66	ene.			3		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.27	768.8	30.37	771.4	51	10.6	69						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.82	757.4	29.89	759.2	66.2	19.0	78	ssw.			1		7					d. clouds	W. H. Lyne.
Sheffield	30.07	763.8	30.34	770.6	67.9	19.9	67	ene.			1		4			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.36	771.1	30.39	771.9	61.2	16.2	62	w.			1		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.38	771.6	65.3	18.5	48	ssw.	9	4.0								blue sky	W. C. Carlisle.
Truro, Royal Institution	30.24	768.1	30.34	770.6	76	24.4	52	e.			4		3					d. clouds	W. Newcombe.
Valencia, Observatory	30.36	771.1	30.38	771.6	58.6	14.8	65	nw.	16	7.2			2					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.71	754.6	30.10	764.5	68.7	20.4	40	w.	6.2	2.8						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.71	754.6	29.75	755.6	36	2.2	91	n.	12	5.4			10 n			1.105	28.1	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.70	754.4	29.76	755.9	43	6.1	76	w.	1	0.4		0	0			0.20	5.1	clear	G. A. Blair.
Cornwall, Ontario	29.79	756.7	29.98	761.5	37.4	3.0	54	n.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	29.80	756.9	29.85	758.2	41.5	5.3		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	29.75	755.6	29.77	756.1	39	3.9	89	ne.	8	3.6			10 n		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.20	741.7	30.04	763.0	44	6.7	76	s.	4	1.8		0	8 k			0	0	fair	James Stewart.
Fredericton, N. B	29.72	754.9	29.79	756.7	38.1	3.4	85	nw.	1	0.4		0	5			0.680	17.3	light fog	Prof. Harrison, L. L. D.
Granton, Ontario	29.04	737.6	30.18	766.6	36.0	2.2	100	n.	2	0.9		0	0			0	0	clear	Jas. Grant.
Halifax, N. S*	29.58	751.3	29.71	754.6	42	5.6	92	n.	9	4.0			10 k		n.	1.719	43.7	cloudy	A. Allison.
Hamilton, Ontario	29.69	754.1	30.09	764.3	39.9	4.4	85	ne.			2	0	0			0	0	clear	Geo. Dickson, B. A.
Kingston, Ontario*	29.72	754.9	30.07	763.8	38	3.3	48	n.	10	4.5		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.67	753.6	29.71	754.6	48.5	9.2	94	sw.			5		10 n			1.830	46.5	overcast	C. H. Rigby.
Montreal, Quebec*	29.75	755.6	29.96	761.0	40	4.4	40	nw.	12	5.4		0	0			inap.	inap.	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.77	756.1	30.02	762.5	36.7	2.6	59	nw.			3	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.44	747.8	30.16	766.1	37	2.8	72	n.	8	3.6		0	0			0	0	clear	Rev. E. Mosley.
Peterboro, Ontario	29.34	745.2	30.10	764.5	29.7	−1.3	52	n.			1	0	0			0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.41	747.0	30.12	765.0	41	5.0	49	ne.	16	7.2		0	0			0	0	clear	H Morgan.
Port Stanley, Ontario	29.46	748.3	30.12	765.0	39	3.9	70	ne.	8	3.6		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.44	747.8	29.79	756.7	42	5.6	73	w.	12	5.4		0	8 ks		w.	0	0	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	29.65	753.1	30.12	765.0	36	2.2	69	nw.	3	1.3		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B	29.70	754.4	29.75	755.6	41	5.0	86	ne.	5	2.2			10 n			0.71	18.0	cloudy	
St. John, N. B	29.58	751.3	29.75	755.6	40.0	4.4	91	ne.	7	3.1			10 ks			1.100	27.9	overcast	G. Murdock, C. E.
Saint John's, N. F	29.91	759.7	30.16	766.1	45	7.2	84	s.			4	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F			29.84	757.9	47.5	8.6		se.			4					0	0		The Commandant
Saugeen, Ontario*	29.43	747.5	30.17	766.3	37	2.8	58	n.	14	6.3		0	0			0	0	clear	
Stratford, Ontario	28.84	732.5	30.15	765.8	38.0	3.3	58	ne.	7	3.1		0	0			0	0	blue sky	C. J. Macgregor, M A
Sydney, C. B*	29.62	752.3	29.68	753.9	48	8.9	93	sw.	18	8.0			10 n			1.58	40.1	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.76	755.9	30.15	765.8	38	3.3	54	n.	17	7.6		0	0			0	0	clear	Magnetic Observatory.
Windsor, N. S	29.62	752.3	29.72	754.9	40.0	4.4	86	nw.	8	3.6			10 n			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.06	738.1	30.15	765.8	39.4	4.1	56	n.	11	4.9		0	0			0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.67	753.6	29.74	755.4	39	3.9	89	n.	5	2.2			10 k		n.	0.26	6.6	cloudy	Lt. F. E. Wilmot, R. N.
London, Ontario	29.23	742.4	30.15	765.8	38.7	3.7	73	w.			1	0	0			0	0	blue sky	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.02	762.5	30.05	763.3	63.0	17.2	77	w.	15.6	7.0		0	3 k			0.010	0.3	hazy	John Duthie.
Springbok Fontein	27.98	710.7			61	16.1	45	n.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.09	637.4																	A. Gueluy.
Tchang-kia-tchouang	29.69	754.2	29.80	757.0	76.6	24.8	24	calm			0		0			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.94	760.4	29.96	761.0	65.3	18.5	88	s.	2.2	1.0		0	5 k;ks		w.	0	0	very cloudy.	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.11	764.7	30.15	765.9	60.4	15.8	68	calm	0	0			3						Oversergent Fischer.
Fanoe	30.20	767.0	30.22	767.5	64.8	18.2	42	nnw.			6		1						Overloerer Lauridsen.
Godthaab, Greenland	29.65	753.0	29.69	754.1	31.8	— 0.1	85	s.			6		10					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.52	749.7	29.56	750.9	35.8	2.1		n.			2		5						
Stykkisholm, Iceland	29.78	756.4	29.82	757.5	38.3	3.5	83	se.			7		10					snowing	A. O. Thorlacius.
Thorshavn	30.23	767.8	30.25	768.4	49.8	9.9	65	sw.	9	4			3						Overloerer Bergh.
Vestervig	30.15	765.9	30.24	768.2	55.2	12.9	87	nnw.			4		5						Loerer Oesterhol.
EGYPTIAN.																			
Cairo	29.84	758.0			83.1	28.4		n.	5.1	2.3			10			0	0	covered	Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.47	748.5	30.10	764.4	76.6	24.8	63	se.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.65	753.1	30.20	767.1	77.0	25.0	45	sw.			3	0	0			0	0	clear	M. Nicot, Director.
Arras, Engineer School	29.94	760.4	30.19	766.7	73.4	23.0	55	e.			2	ck	0			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.01	762.3	30.09	764.3	78.4	25.8	37	sw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.52	749.8	30.05	763.3	79.3	26.3	25	e.			2	0	0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.90	759.4	30.15	765.9	75.4	24.1	45	ne.			2		0			0	0	clear	M. Frère Eugène Marié.
Besançon, Normal School	29.19	741.4	30.05	763.2	78.4	25.8	31	ne.			2	c	0	ne.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.77	756.2	30.02	762.6	74.1	23.4	50	ene.			1		1			0.004	0.1	almost clear	M. Rayet, Director.
Bourges, Normal School	29.51	749.6	30.04	762.9	82.4	28	22	nne.			3		1	nne.		0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.93	760.1	30.17	766.2	67.6	19.8	76	nne.			2		1		nne.	0.433	11.0		M. de Kermarrée, Dir.
Caen, Normal School	30.10	764.4	30.17	766.2	66.9	19.4	72	n.			3		2		s.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.80	756.8	30.10	764.6	83.7	28.7	37	nw.			2		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.63	752.6	30.12	765.1	80.2	26.8	65	ene.			3		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.73	729.7	30.02	762.4	80.4	26.9	36	nne.			1		2 k			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.23	742.5	30.06	763.5	77.5	25.3	35	ne.			2		1		ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.27	743.4	30.08	764.1	77.2	25.1	33	ne.			4		0			0	0		Dr. Coulet, Director.
Gap, Normal School	27.56	700.1	30.00	762.0	74.5	23.6	23	ne.			2	0	2 k		s.	0.051	1.3		M. Jeangirard, Director.
Gréasque, du Rhone	28.98	736.0	30.06	763.5	74.5	23.6	47	sw.			1		2		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.24	742.6	29.98	761.6	78.4	25.8	45	nnw.			2		k		nnw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.52	724.5	30.04	763.0	78.8	26	31	nw.			1	0	0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.04	763.0	30.31	769.8	70.9	21.6	69	nw.			2		2			0	0	slightly cl'dy	M. Olittrault, Director.
Lescar, Normal School	29.42	747.3	29.97	761.2	73.8	23.2	59	w.			1	2 c	0			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.00	761.9	30.10	764.5	81.7	27.6	63	ne.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.02	737.1	30.03	762.8	77.7	25.4	37	sse.			1	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.82	757.3	30.11	764.8	79.2	26.2	47	e.			1		2		e.	0	0	slightly cl'dy	M. Piboëu, Director.
Marseille, Observatory	29.83	757.7	30.10	764.4	68.7	20.4	64	sw.			2		0			0	0		M. Stephan, Director.
Montlouis	24.94	633.4	29.78	756.4	60.4	15.8	42	ne.	11.2	5.0			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.86	758.4	29.98	761.5	77.9	25.5	51	se.			2		0			0	0	clear	M. Gaizin, Director.
Nancy, Normal School	29.34	745.1	30.09	764.2	78.8	26.0	40	nne.			1		k			0	0		M. Hasse, Director.
Nantes, Observatory	29.95	760.7	30.11	764.8	82.4	28.0	46	ne.			1–2	c	1 k		ene.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.98	761.5	30.09	764.3	68.7	20.4	49	e.	11.2	5.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.35	542.3			41.7	5.4		calm			0		1		s.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.05	737.8	30.04	763.1	80.6	27	27	n.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.31	642.8			57.0	13.9	56	ene.			2		2 k			0	0	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.00	762.1	30.04	762.9	82.0	27.8	47	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.85	758.1	30.05	763.3	84.9	29.4	39	e.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.01	711.4	30.06	763.4	77.7	25.4	53	w.			1	0	0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.16	766.0	30.21	767.2	78.4	25.8	40	ne.			2		0			0	0	clear	M. Mouillot, Dir.
Saint Maur, Observatory	29.99	761.7	30.15	765.8	79.5	26.4	41	ne.			1		0			0	0		M. Renou, Director.
Toulouse, Observatory	29.36	745.8	30.09	764.2	81.1	27.3	31	sse.			3		0			0	0	clear	M. Baillaud, Director.
Tours	29.91	759.7	30.09	764.2	79.9	26.6	34	ne.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.66	753.4	30.15	765.9	78.1	25.6	43	ne.			3					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.88	759.0	30.03	762.8	71.8	22.1	62	ne.	5.8	2.6		c	5 k		w.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.71	729.1	30.10	764.4	75.6	24.2	44	ne.			2		2	ne.		0	0		Prof. Jnedt.
Bamberg	29.23	742.5	30.08	763.9	77.9	25.5	40	se.			2	0	3 k		s.	0	0		Prof. Dr. Hoh.
Berlin	30.01	762.2	30.15	765.7	82.8	28.2	32	sw.			1		1			0	0		Meteorological Institute.
Breslau	29.65	753.2	30.19	766.8	77.4	25.2	35	ene.			2		2			0	0		Royal University Obs'y
Carlsruhe	29.65	753.2	30.10	764.5	77.0	25.0	41	ene.			1		0			0	0		Albert Senz.
Cassel	29.38	746.3	30.10	764.4	80.2	26.8	44	nw.			1		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.09	764.3	78.3	25.7	32	ene.			1		1			0	0		Physical Society.
Friedrichshafen	28.69	728.8	30.08	763.9	66.9	19.4	54	sw.			2		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.07	763.7	30.16	766.0	77.0	25.0	41	sw.			1		0			0	0		E. Preller.
Kiel	30.15	765.7	30.16	766.1	63.1	17.3	62	nne.			2		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.72	754.9	30.12	765.1	79.5	26.4	40	e.			2		1			0	0		H. Leppig, Asst.
Magdeburg	29.95	760.7	30.13	765.3	79.9	26.6	50	e.			1		3	e.		0	0		Dr. Assmann.
Memel	30.18	766.5	30.22	767.7	62.4	16.9	74	wnw.			2		0						Issermann.
Munich	29.28	718.4	30.15	765.9	72.1	22.3	36	e.			2		3	se.		0	0		Central Station.
Neufahrwasser	30.18	766.5	30.19	766.9	74.3	23.5	47	se.			2		4			0	0		A. Lothes.
Neustadt, Palatinate	29.55	750.5	30.08	763.9	78.1	25.6	44	calm			0		0			0	0		Dicknether.
Stuttgart	29.15	740.4	30.00	762.1	76.1	24.5	36	e.			1		1	e.		0	0		Prof. Dr. Schoder.
Wustrow	30.17	766.4	30.20	767.0	69.6	20.9	51	nne.			1		0			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.61	752.2	29.99	761.8	68.9	20.5		s.			1.0	0	8 k			0.024	0.6		Schmidt & Wourlisch.
INDIAN.																			
Karrachee	29.66	753.2	29.70	754.5	86.5	30.3	84	sw.	22.0	9.8			7		sw.	0	0	d. clouds	
Deesa	29.21	741.9	29.66	753.4	101.5	38.6	25	sw.	18.0	8.0			0			0	0	blue sky	
Bombay	29.81	757.1	29.85	758.1	87.8	31.0	69	w.	11.0	4.9			1	w.		0	0	d. clouds	
Poona, Yarrowda	27.97	710.4	29.77	756.2	93.3	34.1	31	nw.	8.0	3.6			1	wsw.		0	c	d. clouds	
Prichinopoly	29.49	749.1	29.76	755.9	104.2	40.1	28	nnw.	2.0	0.9			7	nne.	ne.	0	0	d. clouds	
Belgaum	27.29	693.1	29.77	756.1	86.8	30.4	51	e.	14.0	6.3			0			0	0	blue sky	
Lahore	28.77	730.6	29.46	748.4	105.3	40.7	15	calm	0	0			6			0	0	hazy	
Roorkee	28.67	728.1	29.52	749.7	103.5	39.7	9	w.	4.0	1.8			0			0	0		
Agra	29.04	737.6	29.57	751.1	111.1	43.9	9	nw.	10.0	4.5			0			0	0	blue sky	
Nagpur	28.58	725.8	29.56	750.9	106.5	41.4	14	s.	10.0	4.5			8		w.			drizzling	
Jubbulpore	28.29	718.5	29.57	751.1	106.7	41.5	20	nw.	8.0	3.6			3		w.			d. clouds	
Lucknow	29.19	741.4	29.55	750.6	99.0	37.2	25	wnw.	6.0	2.7			0			0	0	blue sky	
Allahabad	29.22	742.2	29.51	749.6	108.3	42.4	11	nw.	4.0	1.8			0			0	0	blue sky	
Patna	29.36	745.9	29.54	750.3	99.5	37.5	39	nne.	6.7	3.0			0			0	0	blue sky	
Hazaribagh	27.62	701.6	29.55	750.5	97.5	36.4	15	nnw.	10.1	4.5			0			0	0	blue sky	
Cuttack	29.57	751.1	29.65	753.2	90.1	32.3	68	w.	10.0	4.5			0			0	0	blue sky	
Calcutta, Alipore	29.60	752.0	29.63	752.5	87.2	30.7	74	ssw.	10.0	4.5			3		ssw.	0	0	d. clouds	
Dhubri	29.53	749.9	29.64	753.0	75.5	24.2	91	ene.	14.0	6.3			8		wnw.	0.87	22.1	d. clouds	
Chittagong	29.66	753.4	29.75	755.7	82.7	28.2	84	s.	5.1	2.3			4			0	0	blue sky	
Sibsagar	29.41	747.0	29.75	755.7	74.1	23.4	89	ne.	2.0	0.9			10	w.	w.	0.88	22.4	d. clouds	
Jeypore	28.21	716.5	29.58	751.3	103.7	39.8	27	wnw.	17.7	7.9			1		wnw.	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.25	717.5	.....	.....	102.0	38.9	21	w.	6	2.7	.....	3 ck	2	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.99	761.7	77.8	25.4	91	sse.	8.7	3.9	.....	.....	10	.....	ese.	1.42	36.1	overcast	
ITALIAN.																			
Udine	29.69	754.0	30.08	764.1	76.6	24.8	39	s.	2.5	1.1	.....	.....	4	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.61	752.1	30.11	764.9	76.6	24.8	31	ene.	3.8	1.7	.....	.....	1	.....	.....	0	0	.....	Prof. G.V.Schiapparelli.
Padua	29.99	761.7	30.10	764.4	74.5	23.6	37	ese.	8.1	3.6	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.1	30.10	764.4	73.4	23.0	42	nnw.	1.3	0.6	.....	.....	7	n.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.91	759.6	30.10	764.4	69.8	21.0	58	sw.	1.8	0.8	.....	.....	8	w.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.24	717.2	30.10	764.5	68.5	20.3	46	sw.	.....	.....	4	.....	4	nnw.	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.04	763.0	30.09	764.2	65.1	18.4	75	n.	3.8	1.7	.....	.....	5	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.81	757.2	30.06	763.6	74.3	23.5	29	n.	.....	.....	2	.....	8	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.94	760.4	30.02	762.6	70.9	21.6	60	nw.	0.7	0.3	.....	.....	3	ne.	.....	0.031	0.8	.....	Prof. P. Monte.
Rome	29.90	759.4	30.07	763.8	73.0	22.8	51	w.	9.4	4.2	.....	.....	3	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.68	753.9	30.01	762.2	69.8	21.0	55	wnw.	13.0	5.8	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.13	740.0	30.01	762.2	76.3	24.6	71	se.	2.5	1.1	.....	.....	3	s.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.86	758.4	30.05	763.3	67.3	19.6	66	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.90	759.4	30.15	765.7	67.3	19.6	54	ne.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.97	761.1	30.01	762.2	72.7	22.6	57	w.	3.1	1.4	.....	.....	2	w.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.54	750.4	30.06	763.4	70.9	21.6	74	se.	0	0	.....	.....	2	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.35	567.0	.....	.....	37.2	2.9	81	e.	.....	.....	1	.....	2	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.37	568.2	.....	.....	50.0	10.0	56	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.74	755.3	29.77	756.2	50.7	10.4	86	calm	.....	.....	0	0	9 ck	.....	w.	0	0	clear	H. Rattori.
Awomori	29.65	753.1	29.69	754.1	50.7	10.4	77	ssw.	9.9	4.4	.....	3 cs	0	.....	.....	0	0	hazy	K. Ogawa.
Hamamatsu	29.64	752.8	29.67	753.5	60.9	16.1	70	wnw.	.....	.....	4	0	0	.....	.....	0	0	clear	
Kagoshima	29.86	758.4	29.87	758.7	63.0	17.2	77	n.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanonaza.
Kioto	29.67	753.6	29.85	758.1	52.8	11.6	81	nw.	2.8	1.2	.....	0	0	.....	.....	0	0	foggy	M. Tojima.
Miasaka	29.82	757.5	29.85	758.2	64.7	18.2	92	e.	.....	.....	1	0	1 ck	.....	w.	0	0	clear	K. Masusaki.
Miyako	29.56	750.8	29.67	753.6	51.3	10.7	94	nw.	1.1	0.4	.....	0	0	.....	.....	0.142	3.6	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.67	753.6	29.87	758.7	62.4	16.9	91	sw.	2.1	0.9	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	29.79	756.0	29.82	757.4	53.5	11.9	89	se.	2.4	1.1	.....	.....	10ck;8	.....	w.	0.030	0.8	cloudy	M. Morita.
Nobiru	29.68	753.7	29.69	754.1	55.0	12.8	60	nw.	25.7	11.4	.....	8 cs	0	.....	.....	0.050	1.3	cloudy	H. Midzushina.
Numazu	29.63	752.0	29.67	753.5	66.9	19.4	75	ese.	.....	.....	4	2 ck	8 ks	.....	.....	0	0	cloudy	R. Kaneda.
Osaka	29.82	757.4	29.84	757.8	57.6	14.2	68	ne.	5.7	2.5	.....	0	0	.....	.....	0	0	clear	H. Omura.
Tokei Obs'y, Yeddo	29.61	752.1	29.68	753.9	62.4	17.1	49	nnw.	21.6	9.6	.....	0	5 ck	.....	w.	0	0	fair	The Staff.
Wakayama	29.77	756.2	29.82	757.5	62.3	16.8	57	nne.	7.0	3.1	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.15	765.8	74.0	23.3	79	ese.	15.5	6.9	.....	0	8 ks;n	.....	ese.	0.09	2.3	cloudy	The Staff.
MEXICAN.																			
Guanajuato	23.69	601.8	29.91	759.8	66.9	19.4	71	e.	inap.	inap.	.....	4 cp	0	ne.	.....	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.32	617.7	29.89	759.2	65.8	18.8	75	wnw.	2.0	0.9	.....	1cc;ck	0	.....	.....	inap.	inap.	dense fog	Prof. M. Leal.
Mazatlan	29.06	753.3	29.91	759.8	71.0	21.7	73	ene.	1.6	0.8	.....	.....	10 n	.....	sse.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	73	22.8	90	s.	9.1	4.1	.....	.....	9 s	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.26	768.6	30.26	768.6	64.4	18.0	.....	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.16	766.1	30.22	767.5	60.4	15.8	.....	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	30.26	768.5	30.26	768.5	58.6	14.8	.....	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.24	768.2	30.24	768.2	66.6	19.2	69	nne.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.17	766.2	30.21	767.4	69.6	20.9	59	nne.	.....	.....	4	.....	2	.....	.....	0	0	lightly cld'y	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	758.9	.....	.....	79.3	26.3	89	nne.	0	0	.....	.....	5	.....	.....	0.736	18.7	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	30.24	768.0	30.30	769.6	49.6	9.8	42	nnw.	11	5	.....	.....	3	.....	.....	0.217	5.5	.....	
Brono	30.07	763.8	30.11	764.8	43.2	6.2	85	sw.	.....	.....	6	.....	10	.....	.....	0.150	3.8	.....	
Christiania	29.98	761.4	30.12	765.1	62.8	17.1	31	wsw.	11	5	.....	.....	1	.....	.....	0	0	.....	
Gjæsvær	29.84	759.7	29.86	758.5	47.8	8.8	.....	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.85	758.2	29.90	759.4	42.3	5.7	88	wsw.	.....	.....	6	.....	10	.....	.....	0.394	10.0	rain & fog	
PORTUGUESE.																			
Angra, Azores	30.22	767.5	30.37	771.5	61.2	16.2	85	nne.	22.4	10.0	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.84	732.6	29.83	757.6	62.6	17.0	71	e.	8.1	3.6	.....	.....	10	.....	.....	0.807	20.5	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.82	757.5	29.91	759.7	58.6	14.8	62	sw.	4.9	2.2	.....	.....	5	.....	.....	0.083	2.1	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.46	748.2	29.79	756.7	59.0	15.0	82	e.	6.9	3.1	.....	.....	9	.....	.....	0.031	0.8	.....	The Staff.
Ponta Delgada, Azores	30.26	768.6	30.33	770.4	61.2	16.2	71	nne.	20.6	9.2	.....	.....	3	wsw.	.....	0	0	.....	
Saint Paul de Loando	29.70	754.3	29.90	759.4	80.1	26.8	98	nw.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	
Serra da Estrella	25.09	637.4	29.85	758.2	42.8	6.0	100	se.	52.1	23.3	.....	.....	10	.....	.....	2.933	74.5	foggy	
RUSSIAN.																			
Akmolinski	28.60	726.3	29.65	753.1	55.4	13.0	71	w.	13	6	.....	.....	10 n	.....	.....	0.008	0.2	.....	Major K. Lasarew.
Archangel	29.92	760.0	29.94	760.5	48.9	9.4	54	nne.	4	2	.....	0	3 ks	.....	.....	0	0	.....	Capt. Ssellwerstow.
Ashurada	29.94	760.5	29.85	758.1	73.8	23.2	69	wsw.	13	6	.....	.....	10 kn	.....	.....	blank	blank	.....	
Astrakhan	29.98	761.6	29.90	759.5	87.8	31.0	23	se.	7	3	.....	0	1 s	.....	.....	0	0	.....	Capt. Wisganow.
Baku	29.89	759.2	29.84	758.0	76.1	24.5	57	s.	4	2	.....	0	1 s	.....	.....	0	0	.....	
Barnaul	29.00	738.2	29.55	750.6	56.5	13.6	53	se.	2	1	.....	.....	9	.....	.....	inap.	inap.	.....	Meteorological Obs'y
Bieloserek	29.49	749.1	29.95	760.8	57.2	14.0	90	n.	4	2	.....	.....	9 ks;n	.....	.....	0.031	0.8	light rain	
Dorpat	29.87	758.7	30.11	764.7	72.0	22.2	45	wsw.	11	5	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.84	732.4	29.80	757.0	43.3	6.3	87	n.	2	1	.....	.....	10 n	.....	.....	0.205	5.2	raining	Meteorological Obs'y
Elissawetgrad	29.00	751.7	30.02	762.5	82.0	27.8	30	ne.	18	8	.....	0	3 cs	.....	.....	inap.	inap.	.....	
Irkutsk	27.93	709.5	29.47	748.0	72.7	22.6	33	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	
Kaanlinsk	29.29	743.9	29.47	748.4	86.0	30.0	32	w.	9	4	.....	0	8 k	.....	.....	.....	.....	.....	
Kasan	29.00	751.8	29.85	758.3	73.0	22.8	37	w.	18	8	.....	0	1	.....	.....	0	0	.....	Observatory.
Kem	29.97	761.1	30.02	762.4	36.3	2.4	91	ne.	13	6	.....	.....	10 ks	.....	.....	blank	blank	heavy cl'ds.	
Kertch	29.79	756.6	29.81	757.1	74.1	23.4	67	ene.	9	4	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	29.48	748.8	30.09	764.2	78.1	25.6	33	ene.	9	4	.....	1 cs	0	.....	.....	0	0	light clouds	Observatory.
Koslov	29.58	751.4	30.10	764.5	76.5	24.7	38	nnw.	9	4	.....	0	0	.....	.....	0	0	.....	
Libau	30.18	766.5	30.20	767.1	61.0	16.1	71	wsw.	7	3	.....	.....	0	.....	.....	0	0	.....	E. Quass.
Lugan	29.70	754.4	29.87	758.8	85.5	29.6	27	ene.	13	6	.....	.....	7	.....	.....	inap.	inap.	.....	Meteorological Obs'y.
Moscow	29.00	751.7	30.04	763.1	76.1	24.5	26	n.	4.5	2.0	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.86	758.4	29.93	760.3	81.5	27.5	49	ne.	31	14	.....	8 cs	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.54	750.3	29.03	752.5	33.8	1.0	87	nw.	2	1	.....	.....	10	.....	.....	0.126	3.2	.....	Iwanow.
Pekin, China	29.54	750.3	29.08	753.9	78.3	25.7	37	sw.	3.4	1.5	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.52	749.8	29.85	758.2	90.1	32.3	13	calm	0	0	.....	0	4 ks	.....	.....	0	0	.....	
Petrozavodsk	29.70	754.3	29.89	759.2	56.8	13.8	88	nw.	16	7	.....	10	.....	.....	.....	0.236	6.0	.....	Dr. Bergmann.
Pinsk	29.09	754.1	30.10	766.1	81.3	27.4	35	e.	7	3	.....	0	0	.....	.....	0	0	.....	
Poti	29.79	756.6	29.82	757.4	64.0	17.8	100	nw.	9	4	.....	.....	10 n	.....	.....	.....	.....	raining	
St. Petersburg	30.00	761.9	30.02	762.5	57.2	14.0	67	nw.	18	8	.....	0	2 k;ks	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.52	699.0	29.87	758.7	78.3	25.7	37	n.	7.8	3.5	.....	3 c	0	.....	.....	0	0	.....	
Semipalatinsk	28.93	734.9	29.57	751.1	61.0	16.1	89	nw.	4	2	.....	.....	10	.....	.....	0.091	2.3	.....	Major Lasarew.
Sevastopol	29.58	751.4	29.81	757.1	59.4	15.2	90	nw.	11	5	.....	.....	10 n	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Staroi Bykhov	29.78	756.3	30.21	767.3	83.5	28.6	29	ne.	2	1		0	1 k			0	0		
Tashkend	28.25	717.6	29.82	757.5	81.0	27.2	30	calm	0	0		0	7 ks			0	0	light clouds.	Terch, A. M.
Tiflis	28.41	721.6	29.75	755.6	80.6	27.0	38	e.	9	4		0	5 k			inap.	inap.		Physical Observatory.
Vernoe	27.33	694.1	29.70	754.4	75.9	24.4	29	s.	4	2		0	2 k			0	0		
Viatka	29.07	738.4	29.69	754.1	54.0	12.2	80	nw	7	3			10			0.378	9.6		
Warsaw	29.74	755.5	30.15	765.7	81.7	27.6	33	ene.	4	2		0	4 k			0	0		Astronomical Obs'y.
Yeniseisk	29.37	745.9	29.66	753.3	41.4	5.2	45	w.	9	4			3			0	0		M. O. Marks.
Scottish.																			
Monach Lt			30.41	772.4	54	12.2	93	sw.			4	5	3	sw.		0	0	cloudy	J. Youngclauss
North Unst			29.34	745.2				sw.			3	0	0						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.02	762.5	30.13	765.2	68.7	20.4	54	e.	3.6	1.6		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.95	760.6	30.00	762.1	79.0	26.1	49	nw.	2.5	1.1		5	2	sw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.08	687.9	30.00	762.1	61.2	16.2	58	e.	2.0	0.9			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.2	30.01	762.3	58.3	14.6	70	se.	11.4	5.1			10			0.110	2.8	covered	The Staff.
Murcia, Met. Obs'y	29.82	757.5	29.95	760.7	69.1	20.6	46	e.	6.9	3.1		4	5	wnw.		0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	29.13	739.8	30.00	762.1	59.0	15.0	82	n	6.5	2.9		4 n	4 n	s.	e.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.95	735.2	29.83	757.7	60.3	15.7	80	n.	10.7	4.7			10			0.579	14.7	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	760.9	30.02	762.5	75.4	24.1	84	se.	2.2	1.0		c	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.6	29.84	758.0	75.7	24.3	97	n.	9.8	4.4			10 n			0.630	16.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.77	756.2	29.87	758.7	58.3	14.6	94	se.	3.6	1.6			10		s.	2.345	59.6	raining	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	29.87	758.8	29.97	761.1	78.8	26.0	95	calm	0	0		5 cs	2 k	w.	w.	0.110	2.8	d. clouds	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.93	760.1	29.97	761.1	42.8	6.0	79	s.			4		0			0	0		
Umea	29.92	760.0	29.97	761.3	59.4	15.2	50	nw.			2		8			0	0		
Hernosand	30.02	762.4	30.07	763.7	60.8	16.0	43	n.			4		5			0	0		
Stockholm	29.91	759.7	30.09	764.2	70.2	21.2	45	wsw.			2		8			0	0		
Wisby	30.04	763.1	30.10	764.6	60.1	15.6	64	wsw.			4		0			0	0		
Sub-series.																			
Upsala	29.96	761.0	30.05	763.2	66.6	19.2	41	w.	7.8	3.5			7		wsw.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.56	725.4	29.95	760.6	68.7	20.4	41	n.			3		1			0	0	clear	The Observatory.
Turkish.																			
Constantinople			29.96	760.9	70.5	21.4	65	n.	8	3.5			7		ne.	0	0		The Observatory.
Valona			30.11	764.9	74.7	23.7		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.98	761.6	73.9	23.3	58	sw.			3	c	2 k		sw.	0.02	0.5		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.71	678.4			57	13.9	77						10 n		se.	0.5	13.	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.82	757.4	29.90	759.4	53.7	12.1	64	n.	5	2.2		3 c	0	w.		0.03	0.8	clear	J. O. Barnes.
Alpena, Michigan	29.54	750.3	30.20	767.1	37	2.8	61	se.	8	3.6		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.88	631.9	29.70	754.4	55	12.8	60	se.	24	10.7			10 s		se.	0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	26.86	682.2	29.70	754.4	45	7.2	86	sw.	4	1.8		0	0			0.02	0.5	clear	B. O. Lenoir.
Atlanta, Georgia	28.93	734.8	30.10	764.5	55.0	12.8	69	nw.	11	4.9		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	29.86	758.4	29.87	758.7	55	12.8	69	nw.	16	7.2		2 c	0			0.18	4.6	clear	Jas. M. Watson.
Augusta, Georgia	29.88	758.9	30.07	763.8	63	17.2	63	n.	4	1.8		1 ck	0	nw.		0	0	clear	John Healy.
Baltimore, Maryland	29.95	760.7	30.00	762.0	57	13.9	45	nw.	10	4.5		2 c	0	n.		0.05	1.3	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.85	758.2	29.87	758.7	55.5	13.1	69	n.	12	5.4		1 k	0			0.01	0.3	clear	G. A. Hill.
Behring Id., Behring Sea	29.98	761.5	30.00	762.0	35.2	1.8		s.	8	3.6			10 n		s.	0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.28	718.3	29.84	757.9	51.5	10.8	90	se.	17	7.6		5 ck	5 s	se.	se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	26.89	683.0	29.68	753.9	45	7.2	63	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.51	673.3	29.69	754.1	46	7.8	86	calm	0	0		4 k	4 s	w.		0.03	0.8	cloudy	T. Gibson.
Bismarck, Dakota	28.07	713.0	29.86	758.4	55	12.8	54	se.	12	5.4		2 c	0	nw.		0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.80	756.9	29.83	757.7	46	7.8	92	ne.	8	3.6			10 s		e.	inap.	inap.	cloudy	J. T. Elker.
Boise City, Idaho	27.10	688.3	29.94	760.5	36	2.2	89	nw.	4	1.8		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.69	754.1	29.85	758.2	48.0	8.9	86	n.	4	1.8		3 cs	4 k	n.	n.	0.01	0.3	fair	O. B. Cole.
Brownsville, Texas	29.86	758.4	29.90	759.4	79.5	26.4	88	se.	6	2.7		2 cs	3 s		s.	0	0	fair	M. McCarty.
Buffalo, New York	29.34	745.2	30.08	764.0	40.3	4.6	64	n.	13	5.8		0	0			inap.	inap.	clear	W. Finn.
Buford, Fort, Dakota	27.81	706.4	29.79	756.7	50	10.0	74	se.	10	4.5		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.64	752.8	29.93	760.2	40.0	4.4	48	n.	18	8.0		0	0			inap.	inap.	clear	D. N. Farnell.
Cairo, Illinois	29.84	757.9	30.24	768.1	53.6	12.0	82	sw.	2	0.9		2 c	0	w.		0	0	clear	W. H. Ray.
Cape Henry, Virginia	29.90	759.4	29.92	760.0	56	13.3	69	n.	35	15.6		0	7 ks		n.	0.92	23.4	fair	A. K. Alderson.
Cape May, New Jersey																0.15	3.8		W. E. Smith.
Cape Mendocino, California	29.04	737.6	29.72	754.9	46	7.8	83	se.			9		10 n		se.	0.03	0.8	light rain	J. J. McLean.
Cedar Keys, Florida	29.96	761.0	29.98	761.5	75	23.9	60	nw.	15	6.7		2 c	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.93	760.2	29.98	761.5	66.0	18.9	59	n.	16	7.2		0	0			0.16	4.1	clear	J. H. Smith.
Charlotte, N. Carolina	29.20	741.7	30.04	763.0	60.0	15.6	50	n.	9	4.0		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.14	765.5	53.0	11.7	61	n.	12	5.4			10 ks		n.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.90	607.4	29.77	756.1	47.0	8.3	63	sw.	6	2.7		8 k	0	sw.		0	0	cloudy	E. McGovern.
Chicago, Illinois	29.44	747.8	30.14	765.5	49.8	9.9	64	sw.	2	0.9		0	0			0.01	0.3	clear	John Laurens.
Chincoteague, Virginia	29.87	758.7	29.89	759.2	54	12.2	66	nw.	30	13.4			9 ks		n.	0.31	7.9	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.54	750.3	30.19	766.8	50.0	10.0	72	nw.	2	0.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.40	746.7	30.13	765.3	45	7.2	58	n.	8	3.6		0	0			0.01	0.3	clear	J. B. Newlin.
Coleman City, Texas	28.13	714.5	29.92	760.0	72	22.2	82	se.	8	3.6		6 cs	0			0	0	fair	T. J. Kenan.
Columbus, Ohio	29.28	743.7	30.12	765.0	47	8.3	68	w.	7	3.1		0	0			0.18	4.6	clear	D. Cuthbertson.
Concho, Fort, Texas	28.00	711.2	29.90	759.4	72.0	22.2	76	se.	12	5.4			10 s		s.	0	0	cloudy	J. McGlone.
Davenport, Iowa	29.53	750.0	30.17	766.3	52	11.1	86	nw.	2	0.9		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.09	637.3	29.81	757.2	67	19.4	52	e.	8	3.6			10 ks		se.	0	0	threatening	J. Williams.
Dayton, Washington Ty	27.92	709.2	29.67	753.6	50	10.0	74	e.	1	0.4		9 k	0			0	0	cloudy	D. Moore.
Deadwood, Dakota	25.14	638.5	29.66	753.4	43	6.1	76	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	29.89	759.2	29.91	759.7	55	12.8	74	n.	25	11.2		2 cs	1 s		nw.	0.28	7.1	clear	T. S. Townsend.
Denver, Colorado	24.60	624.8	29.76	755.9	51.5	10.8	67	ne.	2	0.9			10 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.26	743.2	30.15	765.8	49	9.4	86	calm	0	0		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.43	747.5	30.13	765.3	43.0	6.1	68	n.	12	5.4		0	0			inap.	inap.	clear	E. R. Brace.
Dodge City, Kansas	27.36	694.9	29.91	759.7	56	13.3	74	s.	5	2.2		0	5 ks		n.	0	0	fair	J. H. Bryce.
Dubuque, Iowa	29.46	748.3	30.16	766.1	48.2	9.0	66	calm	0	0		1 c	hz.	w.		0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.41	747.0	30.16	766.1	44	6.7	51	ne.	2	0.9		0	hz.			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.11	739.4	29.91	759.7	78.1	25.6	77	se.	9	4.0			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.12	638.0	29.80	756.9	40	4.4	35	sw.	4	1.8		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	29.70	754.4	29.77	756.1	41.0	5.0	82	n.	4	1.8			10 s			0.97	24.6	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.27	692.6	29.97	761.2	60	15.6	84	n.	8	3.6			10 s		n.	0.03	0.8	cloudy	W. J. Cundall.
El Paso, Texas	26.13	663.7	29.77	756.1	60.0	15.6	23	calm	0	0			10 s		ne.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.40	746.7	30.12	765.0	43	6.1	68	n.	10	4.5		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.54	750.3	30.20	767.1	38.0	3.3	62	calm	0	0		hz	hz.			0	0	dense haze	George Heathcote.
Galveston, Texas	29.97	761.2	30.01	762.2	78	25.6	88	se.	5	2.2		0	9 ks		se.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.51	749.5	30.17	766.3	49.5	9.7	63	ne.	4	1.8		0	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.13	638.3	29.74	755.4	50	10.0	86	se.	10	4.5			10 n		se.	0.03	0.8	light rain	Robert C. Lord.
Hatteras, North Carolina	29.84	757.9	29.86	758.4	60	15.6	70	n.	30	13.4			10 k		ne.	0.30	9.1	cloudy	R. M. Crawford.
Helena, Montana	25.58	649.7	29.75	755.6	47	8.3	71	sw.	5	2.2		0	6 ks			0	0	fair	N. C. Smith.
Huron, Dakota	28.62	720.9	29.97	761.2	50.2	10.1	83	se.	15	6.7		2 cs	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.37	746.0	30.16	766.1	46.8	8.2	68	calm	0	0		0	fg.			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.91	759.7	29.94	760.5	78.2	25.7	92	se.	8	3.6		5 ck	0	s.		0	0	fair	I. A. Reed.
Jacksboro, Texas	28.82	732.0	29.97	761.2	68	20.0	55	se.	9	4.0		2 ck	3 s		s.	0	0	fair	D. J. Carr.
Jacksonville Florida	29.94	760.5	29.98	761.5	72	22.2	53	nw.	8	3.6		0	0			0.06	1.5	clear	J. W. Smith.

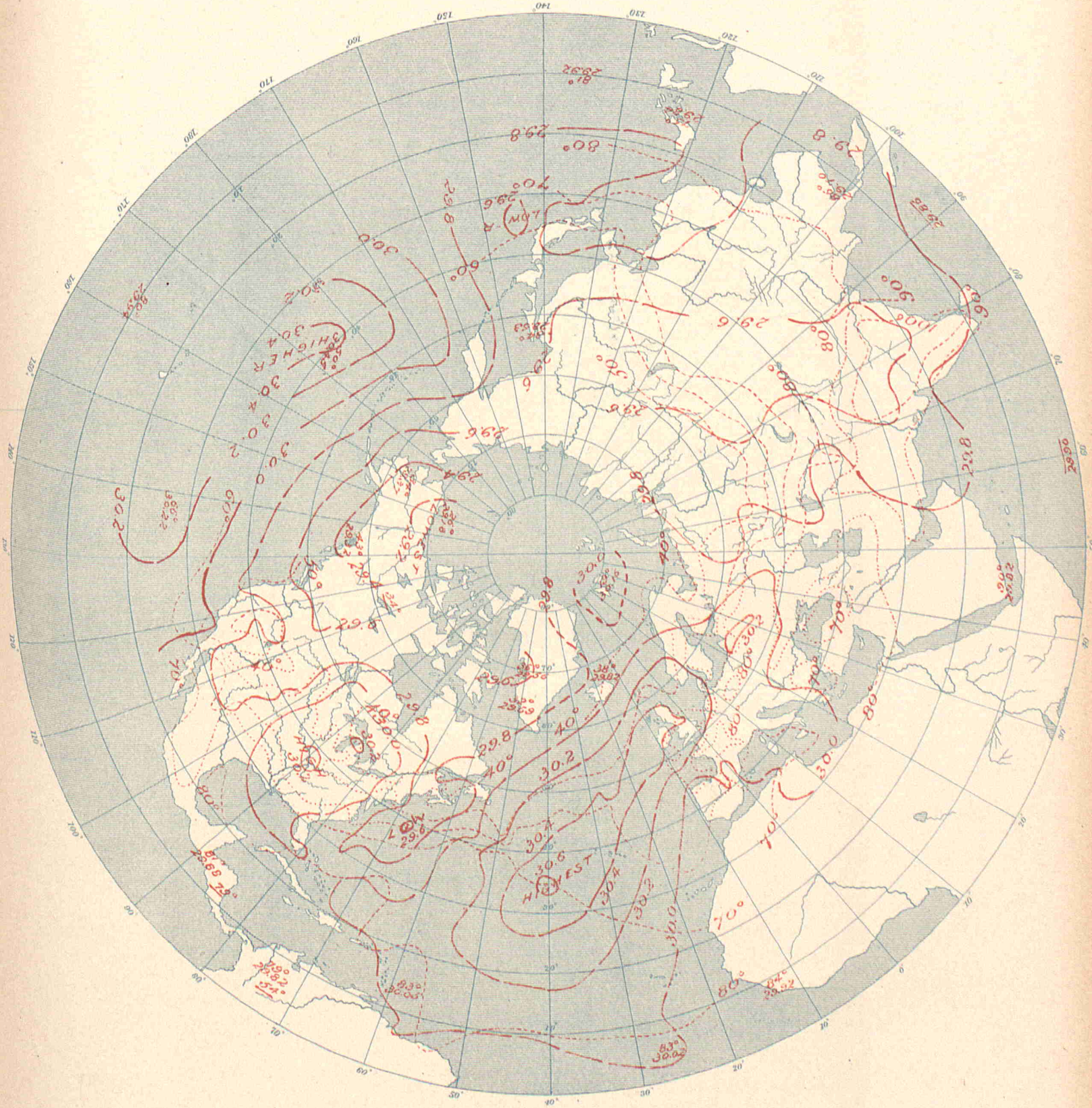
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.22	691.4	29.67	753.6	48	8.9	80	se.	4	1.8		8 k	0			0	0	cloudy	W. B. Lamar.
Keokuk, Iowa	29.51	749.5	30.16	766.1	57.5	14.2	67	sw.	5	2.2		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762.0	81.0	27.2	69	nw.	8	3.6		0	3k:ks		nw.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.88	758.9	29.90	759.4	55	12.8	86	ne.	33	14.8			10 ks		ne.	1.46	37.1	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.13	739.9	30.15	765.8	51.2	10.7	84	ne.	8	3.6		0	8 s		ne.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.34	745.2	30.10	764.5	52	11.1	66	s.	4	1.8		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.26	743.2	30.14	765.5	52	11.1	86	calm	0	0		3 k	0	w.		0	0	clear	A. W. Browne.
Lewiston, Idaho	28.85	732.8	29.69	754.1	52.2	11.2	80	ne.	4	1.8		8 k	0	s.		0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.83	757.7	30.14	765.5	57	13.9	80	e.	6	2.7		7 ck	0	w.		0	0	fair	W. U. Simons.
Los Angeles, California	29.60	751.8	30.00	762.0	44	6.7	83	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.60	751.8	30.15	765.8	50	10.0	77	calm	0	0			sk.			0	0	dense smoke	L. M. Dey.
Lynchburg, Virginia	29.36	745.7	30.04	763.0	57.7	14.3	40	nw.	8	3.6		0	0			0.27	6.9	clear	Lou's Duane.
Mackinaw City, Michigan	29.55	750.6	30.20	767.1	40.0	4.4	39	calm	0	0		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.89	759.2	29.90	759.4	59.0	15.0	75	nw.	28	12.5		0	4 k		nw.	0.55	14.0	fair	William Daly.
Maginnis, Fort, Montana	25.28	642.1	29.69	754.1	48	8.9	46	sw.	12	5.4		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.44	747.8	30.16	766.1	38	3.3	45	calm	0	0		0	0			0	0	clear	E. H. Thompson.
Memphis, Tennessee	29.84	757.9	30.17	766.3	56	13.3	74	ne.	6	2.7		5 cs	0	nw.		0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.42	747.3	30.16	766.1	45	7.2	68	ne.	7	3.1		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana	26.45	671.8	29.75	755.6	43	6.1	60	ne.	4	1.8			9 s			0.10	2.5	cloudy	J. H. Young.
Mobile, Alabama	30.06	763.5	30.10	764.5	65.8	18.8	69	n.	12	5.4		1 cs	0			0	0	clear	C. A. Read.
Montgomery, Alabama	29.85	758.2	30.08	764.0	60	15.6	67	ne.	6	2.7		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.06	738.1	30.04	763.0	43	6.1	74	s.	5	2.2		0	0			0	0	clear	H. Bessaut.
Mt. Washington, N. H.	23.53	597.7	29.71	754.6	25.0	— 3.9	100	nw.	28	12.5			fg.		nw.	0.22	5.6	dense fog	S. W. Beall.
Nashville, Tennessee	29.60	751.8	30.17	766.3	53.5	11.9	80	ne.	7	3.1		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.73	755.1	29.85	758.2	53	11.7	66	n.	6	2.7		3 c	hz.	sw.		0.02	0.5	clear	J. H. Sherman.
New London, Connecticut	29.80	756.9	29.86	758.4	56	13.3	51	ne.	4	1.8		7 c	0	ne.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.06	763.5	75.0	23.9	66	e.	9	4.0		3 c	0	nw.		0	0	clear	H. C. Smyth.
New York, New York	29.71	754.6	29.89	759.2	56	13.3	57	w.	5	2.2		1 cs	0			0.04	1.0	clear	G. E. Franklin.
Norfolk, Virginia	29.90	759.4	29.93	760.2	57	13.9	64	n.	12	5.4		4 ck	0	n.		1.01	25.7	fair	Wm. Davis.
North Platte, Nebraska	26.99	685.5	29.86	758.4	51.6	10.9	84	se.	20	8.9		0	5 s		se.	0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.67	753.6	29.71	754.6	44.0	6.7	89	w.	4	1.8			10 n			0.20	5.1	light rain	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.12	765.0	53.8	12.1	83	s.	4	1.8		3 c	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.16	740.7	29.18	741.2	26.2	— 3.2	100	nw.	7	3.1			10 s		s.	0.04	1.0	cloudy	P. H. Ray.
Oswego, New York	29.71	754.6	30.04	763.0	38.0	3.3	61	n.	17	7.6		0	0			0.02	0.5	clear	J. G. Linsley.
Palestine, Texas	29.48	748.8	30.04	763.0	74.0	23.3	90	e.	2	0.9		9 cs	0	w.		0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	68.0	20.0	62	n.	11	4.9		2 cs	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	29.82	757.4	29.92	760.0	53.5	11.9	80	nw.	16	7.2		1 c	0	w.		0.09	2.3	clear	T. F. Townsend.
Pike's Peak, Colorado	17.80	452.1	29.86	758.4	20	— 6.7	91	sw.	47	21.0		2 cs	1 s			0	0	clear	H. Hall.
Pioche, Nevada	23.86	606.0	29.78	756.4	42.0	5.6	40	s.	4	1.8		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.28	743.7	30.08	764.0	44.0	6.7	80	nw.	4	1.8		0	0			0.17	4.3	clear	W. A. Reid.
Poplar River, Montana	27.65	702.3	29.77	756.1				se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.46	748.3	30.14	765.5	39.0	3.9	73	n.	13	5.8		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.76	755.9	29.81	757.2	46.0	7.8	68	n.	4	1.8		3 c	0	n.		0.08	2.0	clear	W. W. Eichelberger
Portland, Oregon	29.60	751.8	29.66	753.4	48.0	8.9	86	s.	4	1.8			10 n		s.	0.21	5.3	heavy rain	M. L. Hearne.
Portsmouth, N. C.					59	15.0	75	ne.	28	12.5			10 k		ne.	0.73	18.5	cloudy	F. P. Chaffee.
Prescott, Arizona	24 58	624.3	29.68	753.9	37.0	2.8	52	calm	0	0		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass.	29.79	756.7	29.82	757 4	44	6.7	83	ne.	9	4.0		0	9 s			inap.	inap.	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.97	761.2	29.98	761.5	79	26.1	75	nw.	15	6.7		0	6 k		nw.	0	0	fair	W. J. Evans.
Red Bluff, California	29.55	750.6	29.99	761.7	52	11.1	86	s.	6	2.7			10 ks		s.	0.01	0.3	cloudy	J. R. Williams.
Rochester, New York	29.42	747.3	30.08	764.0	37	2.8	61	n.	16	7.2		0	0			0.02	0.5	clear	E. W. McGaun.
Roseburg, Oregon	29.18	741.2	29.73	755.1	47	8.3	68	e.	9	4.0			10 n			0.17	4.3	light rain	J. J. Nanry.
Sacramento, California	29.87	758.7	29.95	760.7	47.0	8.3	93	se.	4	1.8		0	6 s		sw.	0.02	0.5	fair	J. A. Barwick.
St. Louis, Missouri	29.63	752.6	30.22	767.6	49.0	9.4	90	w.	7	3.1		5 c	fg.	w.		0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.34	745.2	29.37	746.0	34	1.1	100	nw.	16	7.2			fg.			0	0	dense fog	A. P. Leavitt.
St. Paul, Minnesota	29.22	742.2	30.06	763.5	47.0	8.3	86	calm	0	0		4 cs	hz.	n.		0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.16	740.7	30.02	762.5	46	7.8	61	s.	5	2.2		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.47	646.9	29.79	756.7	47.3	8.5	50	calm	0	0		5 k	hz.	sw.		0	0	fair	J. Craig.
San Antonio, Texas	29.26	743.2	29.96	761.0	76	24.4	85	se.	4	1.8			10 s		se.	0	0	cloudy	J. H. Davis.
San Diego, California	29.88	758.9	29.94	760.5	48.6	9.2	77	n.	3	1.3		0	5 n		nw.	inap.	inap.	light rain	A. O. Dobbins.
Sandy Hook, New Jersey	29.84	757.9	29.87	758.7	55.0	12.8	62	nw.	14	6.3		0	0			0.04	1.0	clear	B. A. Blundon.
Sanford, Florida	29.88	758.9			76	24.4	85	w	11	4.9		7 c	0	w.		0.03	0.8	fair	J. B. Marbury.
San Francisco, California	29.91	759.7	29.98	761.5	50.5	10.3	86	w.	3	1.3			9 s		sw	0.47	11.9	cloudy	N. Gorom.
Santa Fé, New Mexico	23.17	588.5	29.78	756.4	52	11.1	64	se.	11	4.9		10 c	0	sw		0	0	cloudy	H. U. Jones.
Savannah, Georgia	29.91	759.7	30.00	762.0	69	20.6	47	n.	12	5.4		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.04	661.4	29.64	752.8	48	8.9	58	sw.	12	5.4		8 k	0	sw.		0.27	6.9	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.88	758.9	30.12	765.0	68.5	20.3	67	e.	7	3.1			10 ks		e.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.77	730.7	29.99	761.7	63	17.2	78	ne.	4	1.8			10 ks		s.	0	0	cloudy	W. M. Mattingly.
Sitka, Alaska	29.26	743.2	29.32	744.7	42.5	5.8	61	ne.	4	1.8		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.66	753.4	30.13	765.3	60.0	15.6	65	e	10	4.5		8 cs	0	e.		0	0	cloudy	J. B. Campbell.
Smithville North Carolina	29.89	759.2	29.93	760.2	62	16.7	60	n.	12	5.4		0	0			inap.	inap.	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.66	702.6	29.71	754.6	52	11.1	80	s.	10	4.5		4 c	2 s			0	0	fair	John F. Hemenway.
Springfield, Illinois	29.52	749.8	30.19	766.8	52	11.1	72	sw.	1	0.4		0	0			0	0	clear	T. B. Jennings.
Springfield, Missouri	28.73	729.7	30.15	765.8	50	10.0	86	se.	8	3.6		7 cs	0	nw.		0	0	fair	J. H. Bryce.
Starkville, Miss.	29.70	754.4	30.17	766.3	55	12.8	77	n.	9	4.0		3 c	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota	27.99	710.9	29.82	757.4	53	11.7	69	se.	16	7.2		4 cs	0	w.		0	0	fair	A. Schneider.
Stockton, Fort, Texas	26.82	681.2	29.83	757.7	74	23.3	74	se.	20	8.9			10 ks		se.	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass.	29.80	756.9	29.85	758.2	46.4	8.0	83	ne.	9	4.0		5 k	0	w.		0.02	0.5	fair	G. Liebmann.
Thomas, Camp, Arizona	27.11	688.6	29.78	756.4	61	16.1	62	sw.			4		9 ks		w.	0	0	cloudy	J. T. Fitzgerald.
Toledo, Ohio	29.43	747.5	30.11	764.8	49	9.4	50	n.	4	1.8		1 ck	0			0.01	0.3	clear	A. Buell.
Tucson, Arizona	27.36	694.9	29.70	754.4	67	19.4	44	se.	6	2.7			10 ks			0	0	cloudy	J. L. Whiteside.
Unalaska, Alaska	29.77	756.1	29.80	756.9	36	2.2	79	w.	8	3.6			10 s			0.12	3.0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					50	10.0	48	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.89	759.2	30.14	765.5	61.0	16.1	75	ne.	6	2.7		0	8 s		ne.	0	0	cloudy	James Kenealy.
Visalia, California	29.57	751.1	29.94	760.5	45.0	7.2	87	calm	0	0		0	3 s			inap.	inap.	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.30	617.2	29.78	756.4	37.1	2.8	91	s.	2	0.9		2 k	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.90	759.4	30.00	762.0	55.0	12.8	55	nw.	8	3.6		4 c	0	nw.		0.08	2.0	fair	T. B. Harrison.
West Las Animas, Colorado	25.93	658.6	29.78	756.4	59.9	15.5	70	s.	23	10.3		4 c	6 s	sw.		0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa.	29.40	746.7	30.00	762.0	49	9.4	63	w.	4	1.8		0	0			0.08	2.0	clear	B. F. Hough.
Wilmington, N. Carolina	29.90	759.4	29.95	760.7	63	17.2	73	n.	10	4.5		0	0			0.60	15.2	clear	Samuel A. Haney.
Winnemucca, Nevada	25.45	646.4	29.80	756.9	32	0.0	81	sw.	4	1.8		0	0			0.09	2.3	clear	J. Grover.
Yankton, Dakota	28.76	730.5	30.04	763.0	53	11.7	72	calm	0	0		0	0			0	0	clear	J. H. Attield.
Yuma, Arizona	29.65	753.1	29.80	756.9	55.5	13.1	44	nw.	12	5.4		6 cs	0	nw		0	0	fair	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0			54.0	12.2	82	calm	0	0			9ks;s		nw.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			29.97	761.2			76	calm	0	0		0	0			0	0	clear	Robtrt Johnston.
Paramaribo, S. A.	29.98	761.5	29.98	761.5	79	26.1	87	se.			2		8 ps		e.	0.800	20.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.26	743.2	29.82	757.4	79	26.1	89	calm			0		10 ks		calm	0.18	4.6	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79	26.1	90	ne.			1	10 cs				0	0		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos.
Santiago de Cuba, W. I.	29.94	760.5	29.97	761.2	80	26.7	79	calm	0	0		5 cs	6 ks			0	0		R. Mason.
York Factory, B. A.	29.72	754.9	29.78	756.4	39.5	4.2	100	s.	16	7.2			10 n		s.	0.02	0.5	rain & snow	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, Malta, Mediterranean	30.11	764.8	66	18.9	68	nnw.			2		1	nnw.						blue sky.
H. M. S. Dido. Barbadoes, W. I.	29.92	760.0	82	27.8		e.			1		3	e.				1	s.	d. clouds.
H. M. S. Flamingo, off Bermuda Ids., Atlantic			71	21.7	95						0					1	ssw.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.99	761.7	70	21.1	80	nnw.			3		1							squally
H. M. S. Minotaur, Gibraltar, Mediterranean	29.83	757.6	64	17.8	88	sse.			4–6		10							rain-squalls
H. M. S, Neptune, N. 44° 20′, W. 9° 10′	29.94	760.5	62	16.7		ne.			4		9	ene.				2	wsw.	d. clouds.
H. M. S. Rocket, N. 38° 32′, W. 28° 38′	30.46	773.7	64	17.8	83	nnw.			5		7							squally.
H. M. S. Tyne, N. 20° 45′, W. 86° 21′	29.97	761.2	80	26.7	87	ne.			3		2					1	ne.	d. clouds
H. M. S. Tenedos, Halifax, N. S.	29.72	754.9	44	6.7	84	n.			2		10	nnw						overcast.
U. S. Navy Yard, Pensacola, Fla	30.01	762.2	68	20.0	60	n.	5	2.2			2		n.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H.*	29.78	756.4	44	6.7	84	nw.	4	1.8			0			0.1	3.			hazy.
U. S. S. Alliance, Norfolk, Va	29.94	760.5	57	13.9	75	wnw.			3		2			light	light			clear
U. S. S. Colorado, New York, N. Y.	29.91	759.7	56	13.3	57	n.	8	3.6			0			0.05	1.3			fair
U. S. S. Franklin, Norfolk, Va.	29.93	760.2	57	13.9	75	nnw.	14	6.3			5		nne.	0.11	2.8			fair.
U. S. S. Jamestown, N. 41° 11′, W. 71° 20′	29.78	756.4	46	7.8	92	ne.			3		10		ne.	0	0	mod.	sw.	cloudy.
U S. S. Kearsarge, Hampton Roads, Va	29.96	761.0	58	14.4	76	nnw.			4		2							fair.
U. S. S. Lancaster, N. 60° 12′, E. 28° 05′	29.99	761.7	47	8.3	85	wsw.			4		0					sm'h		hazy.
U. S. S. Michigan, Erie, Pa.	30.07	763.8	46	7.8	77	ne.			1		0							clear.
U. S. S. Minnesota, New York, N. Y.	29.88	758.9	53	11.7	80	nnw.			3		8		nw.					cloudy.
U. S. S. New Hampshire, Newport, R. I.	29.80	756.8	49	9.4	93	ne.			2		10		calm			sm'h		cloudy.
U. S. S. Portsmouth, off Block Island, R.I.	29.89	759.2	47	8.3	92	nne.			3		10		ne.			long	s.	cloudy.
U. S. S. Powhatan, Cartagena, U.S.C.	29.84	757.9	80	26.7	96	sse.			2		10		sse.					raining.
U. S. S. Quinnebaug, Cape Palmas, Liberia, Africa	29.93	760.2	82	27.8	87	sw.			2		5		sw.			sm'h	sw.	fair.
U. S. S. Saratoga, N. 37° 35′. W. 73° 14′	29.73	755.1	57	13.9	?	nne.			6		10		ne.	h'vy	h'vy	mod.	ne.	cloudy.
U. S. S. St. Louis, League Island, Pa.	29.90	759 4	52	11.1	66	nw.	12.2	5.5			2		w.	0.09	2.3			clear.
U. S. S. Swatara, N. 21° 53′. W. 87° 43′†	29.97	761.2	78	25.6	91	ene.			2		1		ese.	0	0	sm'h		clear.
U. S. S. Tennessee, Fort Monroe, Va.	29.96	761.0	62	16.7	?	nnw.	13	5.8			5			0.3	8.			clearing.
U. S. S. Vandalia, Hampton Roads, Va	29.91	759.7	57	13.9	75	nw.			4		2		n					fair
U. S. S. Wabash, Boston, Mass.	29.82	757.4	49	9.4	78	nne.	2	0.9			8		w.	0	0			cloudy.
U. S. S. Vantic. Fort Monroe, Va.	29.96	761.0	57	13.9	81	nnw.			3–6		5							squally.
Commewyne, N. 42° 11′, W. 35° 49′	30.48	774.2	63	17.2	89	sw.			3		10							d. clouds.
S. S. Illinois, Liverpool, Eng*	30.30	769.6	64	17.8		wnw.			2		4		w.					fair.
S. S. Ohio, N. 48° 16′, W. 28° 23′ †	30.41	772.4	58	14.4	88	ne.			4		10		calm	4 h'r	4 h'r	sm'h	w.	overcast.
S. S. Pennsylvania, N. 39° 59′, W. 58° 15′†	29.89	759.2	73	22.8		sse.			2		4		s.			mod.	s.	fair.
S. S. Circassian, Montreal, Canada	29.94	760.5	41	5.0	65	ne.			3		2			0	0			d. clouds.
S. S. Grecian, N. 46° 30′, W. 53° 40′	30.05	763.3	36	2.2	90	s.			6		10		s.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Polynesian, Montreal, Canada.	30.02	762.5	43	6.1		nnw.			2		1		nw.	0	0			clear.
S. S. Manitoban, N. 48° 36′, W. 63° 20′	29.79	756.7	36	2.2	70	wnw.			3		2		wsw.	0	0	sm'h	w.	clear.
S. S. Scandinavian, N. 49° 02′, W. 64° 05′*	29.65	753.1	42	5.6		ene.			1		8			0	0			d. clouds.
S. S. Sardinian, N. 45° 03′, W. 49° 14′	30.17	766.3	45	7.2		sse.			2		fg.			0	0	sli't	se.	dense fog.
S. S. Jason, N. 49° 44′ W. 7° 02′†	30.37	771.4	52.9	11.6		ene.			4		5 k					3	ene.	cloudy.
S. S. Alvo, N. 32° 00′, W. 74° 11′	29.80	756.9	70	21.1		ssw.			3–6		9k;ks		var.	0	0		ne.	cloudy.
S. S. Alene, N. 31° 13′, W. 74° 15′ †	29.83	757.7	72	22.2		var.					5		calm	0	0	con.	w.	squally.
S. S Ailsa, Fijardo, Puerto Rico†	29.92	760.0	82	27.8		ne.			2									
S. S. Anchoria, N. 47° 40′, W. 40° 57′†	30.36	771.1				s.			2		7		s.	0	0	mod.	wsw.	fine.
S. S. Assyria, N. 40° 36′, W. 57° 01′	30.05	763.3	67.5	19.7		s.			4		9		s.	1 h'r	1 h'r	mod.	s.	overcast.
S. S. Bolivia, Glasgow, Scotland *†	30.57	776.5	59	15.0		w.			3		8							
S. S. Dorian, New York, N.Y.	29.90	759.4																
S. S. Furnesia, N. 43° 01′, W. 46° 57′ †	30.22	767.6	62	16.7	88	sw.			2		9		sw.	0	0	mod.	ne.	cloudy.
S. S. Elysia, N. 41° 14′, W. 63° 48′	29.65	753.1	52	11.1	100	sw.			3		10		sw.	2 h'r	2 h'r	h'vy	sw.	drizzling.
S. S. Llandaff City, N. 42° 42′, W. 56° 03′			58	14.4		s.			5		3		s.	0	0	mod.	s.	clear.
S. S. Bothnia, N. 48° 56′, W. 30° 03′	30.37	771.4	55	12.8	93	var.			2		9			20 h'r	20 h'r	cf'd		hazy.
S. S. Scythia, New York, N. Y	29.83	757.7	54	12.2	93									0	0			
S. S. France, N. 46° 39′, W. 28° 03′†	30.30	769.7	59.0	15.0		wsw.			2		9		nw.	0	0	sm'h	w.	
S. S. Ville de Marseilles, Port au Prince, Hayti, W.I			74	23.3		e.			3		7		e.	9 h'r	9 h'r	sm'h		covered.
S. S. Arizona, N. 47° 31′, W. 35° 18′	30.38	771.6	56	13.3		ene.			3		10		e.			mod.	w.	overcast.
S. S. Wisconsin, N. 40° 28′, W. 70° 20′			46	7.8		n.			3		10		nw.	8 h'r	8 h'r	mod.	s.	cloudy.
S. S. Wyoming, N. 50° 37′, W. 16° 46′	30.43	772.9	54	12.2		calm			0		0					sm'h		clear.
S. S. Bohemia, Hamburg, Germany						se.			3–4		3		se.	0	0			fair.
S. S. Gellert, N. 46° 34′, W. 34° 30′	30.36	771.1	59	15.0	94	s.			2		8		nw.	8 h'r	8 h'r	sm'h	ssw.	covered.
S. S. Rugia, N. 41° 53′, W. 49° 26′	30.25	768.3	53	11.7		s.			4		9		s.	1 h'r	1 h'r	mod.	se.	cloudy.
S. S. Silesia, Sandy Hook, N. J	29.90	759.4	54.2	12.3		s.			2		1		ne.	0	0	3	s.	clear.
S. S. Westphalia, New York, N. Y	30.05?	763.3?	52	11.1	86	w.			2		5		n.	0	0			fair
S. S. Wieland, N. 47° 04′, W. 28° 58′	30.42	772.7				w.			1–2		1		wsw.	8 h'r	8 h'r	sm'h	wsw.	foggy.
S. S. Bulgarian, N. 43° 10′, W. 48° 25′	30.24	768.1				e.			1		fg.		e.	0	0			clear.
S. S. Colorado, New York, N.Y			52	11.1		nnw.			3		0			0	0			clear.
S. S. Rio Grande, N. 31° 32′, W. 78° 02′ *†	29.84	757.9	75	23.9		nne.			4		2		ne.	0	0	chop	ne.	clear.
S. S. San Marcos, N. 28° 36′, W. 80° 25′	29.83	757.7	75	23.9		wnw.			4		1		nw.			sm'h		clear.
S. S. Chalmette, Algiers, La †	30.17	766.3	75	23.9		n.			3		4			0	0			fair.
S. S. New York, N. 25° 30′, W. 80° 00′*†	30.02	762.5	79	26.1		nw.			3		0					mod.		clear.
S. S. Alleghany, N. 37° —′ W. 75° 30′†	29.83	757.7	52	11.1		n.			5		2		ne.	4 h'r	4 h'r	long	ne.	clear.
S. S. Archimede, N. 38° 08′, W. 52° 20′ †	30.23	767.8	72	22.2	62	sse.			4		6		s.	0	0	mod.	s.	fair.
S. S. Denmark, N. 49° 37′, W. 10° 50′ †	30.27	768.8	56	13.3		ne.			4		2		ne.	0	0	sm'h		clear
S. S. England, N. 41° 04′, W. 49° 50′	30.17	766.3	58	14.4		ese.			3		10		ese.	0	0	sli't	e.	overcast.
S. S. Greece, N. 40° 46′, W. 52° 18′ *	30.07	763.8	65	18.3	94	sse.			2		1		sse.	light	light	mod.	sse.	clear.
S. S. Helvetia, New York, N.Y	29.93	760.2	60	15.6	88	nw.			1		2		nw.	3 h'r	3 h'r			clear.
S. S. America, N. 49° 45′, W. 10° 38′ *	30.37	771.4	61.0	16.1	88	nnw.			5		8		nnw.	0	0	5	nnw.	cloudy.
S. S. Braunschweig, N. 42° 41′, W. 45° 04′	30.32	770.1	70.0	21.1	85	sw.			3–4		10		sw.	7 h'r	7 h'r	r'gh	var.	cloudy.
S. S. Fulda, N. 42° 20′ W. 49° 42′	30.17	766.3	49	9.4	93	ssw.			3					5 h'r	5 h'r	mod.	ssw.	foggy.
S S. Hohenzollern, N. 44° 40′, W. 35° 47′*	30.38	771.6	58.1	14.5		w.			5		10		w	0	0	mod.	w.	overcast.
S. S. Hohenstaufen, off East Goodwin, Eng.	30.18	766.6				n.			4		1		nne.	0	0	light	nne.	clear.
S. S. Main, N. 48° 00′, W. 26° 21′	30.36	771.1	56.3	13.5		calm			0		9		var.	3 h'r	3 h'r	sm'h	sw.	dense fog.
S. S. Neckar, N. 40° 48′, W. 52° 40′	30.15	765.8	61.0	16.1	97	sse.			4		10		sse.	driz.	driz.	sm'h	sse.	hazy.
S. S. O er, N. 49° 51′, W. 8° 07′	30.28	769.1	54.5	12.5		n.			3		2			0	0	mod.	n.	hazy.
S. S. Ohio, N. 50° 08′, W. 3° 50′	30.26	768.6				ene.			4		3		ene.	0	0		ese.	clear
S. S. Salier, off Beachy Head, Eng*†	30.25	768.3	55	12.8		e.			4		6		ne.	0	0	sm'h		fair.
S. S. Strassburg, N. 46° 21′, W. 27° 44′	30.46	773.7	62.0	16.7	100	sw.			1		10		wsw.	3 h'r	3 h'r	3	wnw.	clearing.
S. S. Orinoco, New York, N. Y*†	29.81	757.2	68	20.0		n.			2		0			½ hr	½ hr			clear.
S. S. Colon, N. 19° 56′, W. 74° 08′†	29.97	761.2	81	27.2		ese.			2		0			0	0	sm'h		clear.
S. S. Muriel, N 29° 30′, W. 67° 29′	29.87	758.7	80	26.7		s.			3		0			0	0	mod	ene.	clear.
S. S. City of Augusta, Savannah, Ga†	29.98	761.5				ssw.			5		8		s.	0	0			cloudy.
S. S. Belgenland, Antwerp, Belgium†	30.37	771.4	78	25.6	82	n.			4		0			0	0			clear.
S. S. Rhynland, N. 40° 12′, W. 61° 45′	29.89	759.2	62.	16.7	88	s.			6		5		ssw.	0	0	high	ssw.	fair.
S. S. Pennland, N. 48° 33′, W. 21° 25′	30.43	772 9	54	12.2	67	sw.			2		9		w.	3 h'r	3 h'r	mod.	ne.	cloudy.
S. S. Waesland, N. 40° 57′, W. 50° 37′	30.24	768.1	65	18.3		se.			2		10		se.	sh'rs	sh'rs	long	sw.	cloudy.
S. S. Zeeland, Cross Ledge Light ship, Del *†	29.90	759.4	58	14.4		nne.			4		0					sm'h		clear.
S. S. P. Caland, Rotterdam, Holland	30.21	767.3	72.0	22.2	71	ne.			4		1		e.					clear.
S. S. Rotterdam, N. 42° 12′ W. 57° 32′	29.99	761.7	60	15.6	93	nnw.			4		6		nw.	0	0	5	nw.	hazy.
S. S. Schiedam, N. 44° 36′, W. 36° 42′	30.36	771.1	66.0	18.9	91	wsw.			4		7		w.	4 h'r	4 h'r	mod.	wsw.	hazy.
S. S. W. A. Scholten, New York, N.Y			55.0	12.8	74	nw.			3		1		wnw.	4 h'r	4 h'r			clear.
S. S. Zaandam, N. 49° 44′, W. 18° 00′	30.44	773.2	58.3	14.6	82	e.			1		0			0	0	2	n.	clear.
S. S. Caracas, Long Branch, N. J†	29.92	760.0	59.5	15.3	76	nnw.			3		0			0	0	mod.	s.	clear.
S. S. Valentia, Curacoa, W. I †	30.09	764.3	84.5	29.2	81	ne.			5		3		ne.	0	0			clear.
S. S. State of Florida, N. 41° 57′, W. 64° 04′	29.80	756.9	59	15.0		wnw.			6		10		w.	4 h'r	4 h'r	mod.	nw.	overcast.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1.—North Atlantic.—Continued.																		
S. S. State of Georgia, N. 52° 25′, W 29° 27′			48	8.9		nnw.			3		6		nnw.	0	0	sharp	w.	fair.
S. S. State of Nevada, Glasglow, Scotland			60	15.6		var.			1		2		nw.	0	0			clear.
S. S. State of Alabama, N. 39° 35′, W. 43° 24′	30.25	768.3	66	18.9		s.			4		5		s.	0	0	mod.	s.	fair.
S. S. Marengo, N. 44° 27′, W. 40° 55′			61	16.1		ssw.			5		10		ssw.	22 h'r	22 h'r	long	var.	raining.
S. S. Romano, N. 46° 08′, W. 26° 37′†	30.41	772.4	58	14.4		var.			1		7		ne.			mod.	ene.	fair.
S. S. Daniel Steinmann, N. 46° 42′, W. 37° 39′†	30.36	771.1	63	17.2		ne.			4		9		nne.	6 h'r	6 h'r	light	ne.	hazy.
S. S. Planryn, N. 40° 25′, W. 55° 23′	30.00	762.0							5		6		sse.	0	0	r'gh	s.	fair.
S. S. Norman, Boston, Mass	29.76	755.9				calm			0		10			0	0			cloudy.
S. S. Saxon, Philadelphia, Pa†	29.88	758.9				nw.			6					0	0			fine.
S. S. Germanic, N. 43° 45′ W. 45° 27′			60	15.6		sse.			2		fg.			0	0	sm'h		foggy.
S. S. Iowa, N. 50° 24′, W. 13° 24′†	30.43	772.9	56	13.3		nne.			4					0	0	sli't	n.	clear.
S. S. Assyrian Monarch, N. 49° —′, W. 29° —′	30.35	770.9	50	10.0		nne.			3		9		ne.				var.	raining.
S. S. Antonio Lopez, N. 35° 45′, W. 39° 13′	30.54	775.7	67	19.4	69	sse.			1		5			0	0	mod	se.	fair.
Schr. Abbie H. Gheen, N. 34° 01′, W. 76° 09′†	29.87	758.7	65	18.3		n.			6					0	0			cloudy.
Bk. Alpha, N. 44° 30′, W. 43° 30′*†	30.25	768.3	60	15.6		e.			3		6		e.	0	0	long	sw.	fair.
Bg. Alcira, Maracaybo, Venezuela	29.94	760.5	82	27.8		calm			0		5		ene.	0	0			fair.
Bk. Adelaide, N. 24° 02′, W. 44° 08′*†	30.35	770.9	74	23.3		ese.			4		2		ese.	0	0	mod.	ese.	clear.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.08	764.0	85	29.4		calm			0		5		e.	0	0			fair.
Schr. Authur Burton, N. 35° 30′ N. 74° 40′*†	29.72	754.9				nnw.			3		1		nw.	0	0	cross	n.	threatening
Bk. Achille F, N. 11° —′, W. 26° —′†	29.98	761.5	77	25.0	81	nne.			4		4		ne.	0	0	mod.	ne.	fair.
Bg. Annie R. Storer, N. 22° 27′ W. 71° 30′†	30.05	763.3				sse.			1		3			0	0	long	ene.	clear.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.93	760.2	81	27.2		ene.			2		2		ene.	0	0			clear.
Bg. Belle of the Bay, N. 34° 25′, W. 74° 50′†	29.93	760.2				n.			6		10		n.	2 h'r	2 h'r	long	n.	overcast.
Bk. Champion, N. 20° 37′, W. 60° 20′			80	26.7	82	s.			3		8		sse.	3 h'r	3 h'r	short	s.	cloudy.
Bkt. C. S. Bushnell, N. 38° 50′ W. 67° 20′	29.57	751.1				s.			7		10		sw.	0	0	h'vy	var.	cloudy.
S. Cornelius, N. 49° 07′, W. 8° 01′†	30.22	767.6	54.5	12.5		nne.			5		0			0	0	sm'h		clear.
Bk. Childwall, N. 27° 35′, W. 43° 20′			73	22.8		ene.			5		3		var.	0	0	light	ene.	clear.
Schr. Clotilde, N. 34° 12′, W. 72° 37′*†	29.70	754.4	70	21.1		nw.			5		8		nw.	12 h'r	12 h'r	cross	var.	clearing.
S. Criterion, Mull of Kintyre, Scotland*†	30.40	772.1	57	13.9		n.			1		0			0	0	sm'h		clear.
S. David Stewart, N. 33° 35′, W. 54° 13′†	29.96	761.0				var.			4		4		s.	4 h'r	4 h'r	mod.	se.	squally.
Btk. David A. Preston, N. 28° 46′, W. 67° 32′			76	24.4		ssw.			6		10		sw.	0	0	long	ssw.	
Schr. Edith R. Seward, N. 18° 30′, W. 76° 59′†	30.07	763.8	88	31.1		nw.			1		1		ne.	0	0	sm'h	e.	clear.
S. E. J. Spicer, Liverpool, Eng	30.32	770.1	59	15.0	94	nnw.			2		0			0	0			clear.
Bk. E. D. Bigelow, N. 42° 54′, W. 58° 45′*†	29.75	755.6				s.			5		2		wsw.	0	0		wsw.	hazy.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	30.06	763.5	58	14.4	76	nw.			4		5		nw.	0.20	5.1			fair.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.03	762.7				n.			5					0	0			clear.
S. Festina Lente, off Bic Island, Canada	29.73	755.1	40	4.4		ne.			3		9		w.	1 h'r	1 h'r			overcast.
Bk. George Davis, N. 38° 41′, W. 55° 28′						se.							se.	0	0	r'gh	ese.	cloudy.
Bk. Gronsvaer, N. 10° 36′, W. 45° 20′†	29.95	750.8	79.6	26.4		ne.			6		5		ne.	0	0			fair.
Bk. Galeon, N. 20° 49′, W. 90° 33′†	29.97	761.2	78	25.6		ese.			2		0			0	0	sm'h	se.	blue sky.
S. Hedwig, N. 40° 36′, W. 34° 50′	30.54	775.8	67.6	19.8	76	wsw.			2		4		var.	0	0	1	n.	
Bk. Hattie G. McFarland, Port Royal, S. C*†	29.90	759.4	64	17.8		nnw.			5		3		nw.	0	0			fine.
Bk. John H. Pearson, N. 31° 21′, W. 36° 57′						e.			1				e.	0	0	long	n.	cloudy.
Bk. Cato, N. 45° 39′, W. 13° 30′*†	30.10	764.5				nne.			4		3		ne.	0	0	mod.	ne.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	29.90	759.4				n.			2		1			0	0			clear.
Schr. Jennie N. Huddell, Baltimore, Md†	30.00	762.0	64	17.8	58	nw.			5		2		nw.	0	0			clear.
Bkt. Josephine, N. 19° 53′, W. 58° 16′†	30.03	762.7	82	27.8	67	se.			3		2		se.	0	0	mod.	ese.	fair.
Schr. Leonessa, Baltimore, Md†	29.94	760.5				nnw.			5		0			3 h'r	3 h'r			clear.
Bg. L. & W. Armstrong, N. 20° 40′, W. 69° 51′*†	30.04	763.0				ssw.			1		1		ssw.	0	0	sm'h	nne.	fine.
Light-house Tender Laurel, St. Andrew's Bay, Fla†	30.07	763.8	73	22.8		n.			2		2		n.	0	0			clear.
Bg. Lilian, N. 7° 40′, W. 57° 45′†	29.82	757.4	83	28.3		ene.			4		9		e.	2 h'r	2 h'r			rainy.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	80	26.7		calm			0		0			0	0			clear.
S. S. Madrid, Ancona, Italy†	30.14	765.5	67	19.4	79	nw.			2		0			0	0			clear.
Schr. Minnie A. Bonsall, N. 35° 12′, W. 74° 35′†	29.81	757.2	71	21.7		nnw.			7		10		nnw.	4 h'r	4 h'r	h'vy	nw.	rain & fog.
S. Mt Washington, N. 4° 00′, W. 20° 20′ *†	30.02	762.5	83.3	28.5	79	se.			2		9		se.	6 h'r	6 h'r	cross	var.	cloudy.
Bk. Matilda C. Smith, Sandy Hook, N. J†	29.91	759.7				nw.			4		3		nw.	0	0	mod.	se.	fine.
Bgt. Myrtle, N. 35° 12′, W. 58° 55′*†	30.00	762.0				nw.			1		5		nw.	rain	rain	r'gh	se.	fair.
Bk. Mathais, N. 39° 19′, W. 49° 00′ *†	30.37	771.4	72	22.2		sw.			6		8		sw.	1 h'r	1 h'r	long	var.	
Schr. Maggie Abbott, N. 31° 25′, W. 75° 04′†	29.79	756.7				n.			7		2		w	0	0	h'vy	sw.	clear.
S. S. Mendoza, N. 9° 11′, W. 44° 38′†	30.00	762.0				ne.			6				ne.	0	0	mod.	ne.	clear.
Schr. Maud Briggs, N. 23° 10′, W. 58° 20′*†	30.14	765.5				s.			4		4		s.	1 h'r	1 h'r	sm'h	s.	clear.
Bk. Ottawa, N. 39° 49′, W. 54° 33′*	30.01	762.2	69	20.6		sse.			5		7		ssw.	0	0	mod.	ese.	fair.
S. S. Raleigh, N. 34° 20′, W. 74° 35′†	29.89	759.2	69	20.6		n.			0		4		n.			r'gh	n.	clearing.
Bk. Rebus, N. 48° 48′, W. 5° 48′	30.12	765.0	53	11.7		ene.			4		3		ene.	0	0	mod.	ene.	hazy.
Bk. Rosalie, St. John, Antigua*†	29.99	761.7				e.			3					1 h'r	1 h'r			
Bk. Scud, N. 34° 20′, W. 64° 38′*†	29.90	759.4	72	22.2		ssw.			6		5		ssw.	0	0	mod.	ssw.	hazy
Bk. Southern Belle, Huelva, Portugal†	29.82	757.4				sw.			2									raining.
S. St. Francis, N. 34° 50′, W. 40° 30′†	30.65	778.5	70	21.1	61	ese.			3		3		e.	0	0	sm'h	n.	fair.
Bk. St. Lawrence, N. 8° 18′, W. 58° 06′*†	29.90	759.4				e.			5				e.	6 h'r	6 h'r	r'gh	se.	fair.
S. S. Strathleven, N. 35° 42′, W. 27° 07′	30.33	770.4	62.2	16.8	93	nnw.			7		6		nw.	sh'rs	sh'rs	5	nnw.	showery.
Bgt. Sunlight, Demerara, Brit. Guiana*†	30.11	764.8				ese.			2		4		ese.	4 h'r	4 h'r			fair.
Bg. Teneriffe, N. 21° 15′ W. 74° 05′*	29.96	761.0				ese.			3		0							
Bk. Tuck Sing, N. 36° 29′, W. 71° 40′ *†	29.71	754.6				n			5		10		n.	5 h'r	5 h'r	short	var.	rainy.
Bk. Usko, N. 42° 24′, W. 47° 24′*	30.19	766.8	62	16.7		ssw.			1				sw.	2 h'r	2 h'r	mod.	sw.	foggy.
S. Vincenzo Accame, N. 37° 45′ W. 63° 29′.†	29.88	758.9	68.0	20		ssw.			5		7		sw.			r'gh	sw.	rainy.
Schr. Viola Reppard, N. 39° 09′, W. 73° 31′†	29.90	759.4	62	16.7		n.			2		4		n.	2 h'r	2 h'r	mod.	se.	fair.
Bk. Winifred, N. 24° 18′, W. 63° 45′*†	30.05	763.3											var.	0	0		ese	squally.
S. Wm. McGilvery, N. 9° 40′, W. 31° 14′ *†	30.05	763.3	79	26.1	74	ene.			5		8		ene.	0	0	mod.	ene.	fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.22	767.6	52	11.1	98	ne.			1		0							blue sky.
H. M. S. Boadicea, Cape Town, Cape Colony	30.11	764.8	62	16.7	94	nnw.			1		6							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.07	763.8	54	12.2	96	ne.			1		2							d. clouds.
H. M. S. Thetis, S. 20° 12′, W. 30° 42	30.06	763.5	72	22.2	95	se.			5		8					3	ssw.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.06	763.5	56	13.3	94	ene.	3	1.3			2		calm	0	0	sm'h		clear.
U. S. S Galena, Montevideo, Uruguay*	30.06	763.5	54	12.2	93	ene.			1		1					sm'h		clear.
May Hulse, S. 51° 50′, W. 48° 33′	29.73	755.1	38.5	3.6	63	sw.			1		10							overcast.
S. S. Hevelius, Buenos Ayres, La Plata †	30.11	764.8	56	13.3		n.			3		2		nne.	0	0			clear.
S. Minnie N. Gerow, S. 30° 51′ W. 22° 25′†	30.01	762.2	68	20.0		s.			5		5		sw.	0	0	long	sw.	fair.
S. Paramita, S. 32° 39′, W 37° 09′†	30.13	765.3	67	19.4		ssw.			2		1		ssw.	0	0	long	sw.	clear.
S. Storm King, S. 54° 41′, W. 65° 42′ *†	29.07	738.4				nw.			5		7		w.	1 h'r	1 h'r	r'gh	nne.	fair.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.87	758.7	71	21.7	85	calm			0		1		nw.					blue sky.
H. M. S. Champion, N. 13° 22′, E. 100° 34′	29.70	754.4	80	30.0		s.			4		8		s.			2	s.	d. clouds.
H. M. S. Sappho, N. 10° 00′, W. 84° 40′	29.85	758.2	83	28.3	83	nne.			2		5		ne.					d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 05′	29.82	757.4	50.5	13.6	78	w.			1		2							misty.
H. M. S. Magpie, N. 18° 58′, E. 116° 15′	29.85	758.2	82.0	27.8	81	ene.			4		2					3	ene.	d. clouds.
H. M. S. Swiftsure, Esquimalt, V. I	29.58	751.3	49	9.4	85	calm			0		10							overcast.
H. P. M. S. Tamega, Macao, China	29.84	757.9	62	16.7	94	nne.			1		0							blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.87	758.6	80.6	27.0	83	calm			0		2			8 h'r	8 h'r			d. clouds.
U. S. S. Adams, N. 56° 42′, W. 135° 26′†	29.73	755.1	63.5	17.5	86	n			3		5		nw.	0.07	17.0			fair.
U. S. S. Monocacy, Roze Island, Corea	29.31	744.5	42	5.6	83	nne.			2		10					mod.	sw.	light rain.
	29.80	756.9	63	17.2	72	nnw.			2		2		calm					misty.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
U. S. S. Palos, Hong Kong, China	29.73	755.1	81	27.2	87	calm			0		5		wsw.					fair.
U. S. S. Richmond, Hong Kong, China*	29.74	755 4	81	27.2	91	calm			0		2		se.	1.6	41.			clear.
S. S. Mexico, Guaymas, Mexico†	29.98	761.5	70	21.1	52	nw.			3		2							clear.
S. S. Coptic, N. 40° 58′, W. 175° 52′	30.45	773.4	50.0	10.0	93	wsw.			6		10		sw.	rain	rain	high	sw.	overcast.
S. S. Oceanic, N. 35° 50′, E. 142° 42′*	29.55	750.6	65	18.3	89	n.			6		6		nw.			5	nw.	fair.
S. S. Oregon, N. 44° 06′, W. 124° 08′†	29.67	753.6	47	8.3	92	s.			6		10					r'gh	s.	light rain.
S. S. Willamette, Astoria, Oregon*†	29.67	753.6	50	10.0	93	wsw.			1		7		wnw.	0.51	13.0			rainy.
S. S. Ancon, N. 35° 20′, W. 121° 04′ †	29.96	761.0	50	10.0	86	nw.			2		8		wnw.			mod.	w.	cloudy.
S. S. G. W. Elder, Seattle, Wash. Ter †	29.70	754.4	51	10.6	100	calm			0		10							light rain.
S. S. Australia, N. 9° 53′, W. 163° 00′†	29.94	760.5	80	26.7	91	e.			6		8		e.	0	0	long	e.	cloudy.
S. S. City of New York, N. 35° 01′, W. 130° 46′†	30.01	762.2	60	15.6	75	wsw.			3		10		wsw.	0	0	mod	nw.	cloudy.
S. S. City of Pekin, N 37° 39′, E. 146° 45′†	29.50	749.3	62	16.7	100	ssw.			5		10		nw.	0	0	r'gh	s.	misty.
S. E. B. Sutton, N. 27° 24′, W. 132° 30†	30.24	768.1	64	17.8	89	nne.			2		2		n.	0	0	mod.	nw.	clear.
S. S. Colima, San Blas, Mexco †.	29.88	758.9	68	20.0	79	nw.			0–1		6		sw.	0	0	sm'h		fair.
S. S. Granada, La Libertad, San Salvador †	29.88	758.9	81	27.2	96	calm			0		3		ne.	0	0	small		clear.
S. S. San Blas, N. 35° 28′, W. 121° 34′			62	16.7		nw.			2		2		nw.	0	0	large	wnw.	clear.
S. S. San José, N. 12° 35′, W. 87° 30 †	29.94	760.5	80	26.7		nne.			2		0			1 h'r	1 h'r	short	ese.	clear.
S. S. Gordon Castle, N. 22° 06′, E. 114° 35′						ene.			1–2		4		ene			2	s.	fair.
S. Armenia, N. 28° 05′, W 133° 40′*	30.13	765.3	64	17.8	67	nnw.			2		6			0	0	mod.	nnw.	fair.
S. S. Benledi, N. 31° 30′, E. 133° —′*	29.78	756.4	73	22.8	76	n.			2–3		0			0	0	mod.	ne.	hazy.
Bk. Bore, Macassar, Celebes Id	30.27	768.8	86	30.0		ese.			1									
S. Grecian, N. 10° 00′, E. 133° 44′†	29.92	760.0	81	27.2	91	ese.			5		7		e.	8 h'r	8 h'r	mod.	sw.	fair.
S. Titan, N. 26° 58′, W. 137° 27′*†	30.32	770.1	66	18.9	94	n.			3		10		n.	0	0	mod.	n.	squally.
Bk. Xenia, N. 19° 48′, E. 120° 22′			84	28.9		ene.			5		2		e.	0	0	sm'h	e.	clear.
S. S. Columbia, N. 40° 35′, W. 124° 32′†	29.81	757.2	50	10.0	89	se.			5		10		se.			light	sse.	rainy.
U. S. S. Ranger, N. 14° 47, W. 92° 34′	29.91	759.7	82	27.8	83	nnw.			2		8			0	0	sm'h		cloudy.
District No. 4—South Pacific.																		
H. M. S. Espiegle, S. 18° 08′, E. 178° 26′	29.97	761.2	74	23.3	59	e.			1		10							d. clouds.
H. M. S. Kingfisher, S. 17° 32′, W. 149° 34′	29.92	760.0	76	24.4		calm			0		4							d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.90	759.4	55	12.8		sse.			1							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.78	756.4	65	18.3	100	calm			0		5							d. clouds.
U. S. S. Hartford, S. 0° 45′, W. 146° 30′*	29.79	756.7	80	26.7	87	e.			3		0			0	0	sm'h	ne.	clear.
U. S. S. Iroquois, Valparaiso, Chili	29.96	761.0	51	10.6	93	ese.			1		8					sm'h		cloudy.
U. S. S. Lackawanna, S. 39° 00′, W. 129° 48′*	30.06	763.5	60	15.6	94	ene.			6		10		ne.			r'gh	ne.	raining.
U. S. S. Onward, Callao, Peru*†	30.08	764.0	65	18.3	89	calm			0		10							cloudy.
U. S. S. Pensacola, Callao, Peru*	29.92	760 0	66	18.9	89	n.	3	1.3			10			0	0			cloudy.
U. S. S. Wachusetts, Pago Pago, Samoa Id	29.72	754.9	75	23.9	100	calm			0		5		calm			sm'h		fair.
S. S. City of Sydney, Sydney, N. S. W *†	29.84	757.9	63	17.2	62	sw.			1		7 s		sw.	0	0			fair.
S. S. Zealandia, off Sydney, N. S. W	29.78	756.4	67	19.4	89	w.			4		0							clear.
S. David Crocket, S. 27° 11′, W. 101° 58′*	30.11	764.8	65	18.3	73	se.			5		7		sse.	4 h'r	4 h'r	long	sse.	showery.
H. M. S. Lark, S. 27° 28′, E. 153° 03′	30.02	762.5	62.3	16.8		calm			0		0					sm'h		blue sky.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 59′	29.72	754.9	90	32.2		ese.			2		6	e.						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.99	761.7	79	26.1	86	se.			3		6	sse.				3	sse.	d. clouds
H. M. S. Tourmaline, Ras Madruka, Arabia	29.83	757.7	85	29.4	79	ssw.			3		1	sw.						blue sky.
H. M. S. Woodlark, off Bushire, Persia	29.75	755.6	90	32.2	63	w			2		2	wnw.						d clouds.
U. S. S. Enterprise, Port Elizabeth, Cape Colony*	29.99	761.7	67	19.4	84	w.			4		5		w.			sm'h		fair.
U. S. S. Juniata, N. 24° 44′, E. 65° 26′	29.72	754.9	84	28.9	100	sw.			4		5		sw.	0	0	long	sw.	hazy.
S. S. Salerno, N. 20° 41′, E. 38° 27′†	29.95	760.7	88	31.1		ne.			2		0			0	0	sm'h	ne.	clear
Bk. Alpheus Marshall, S. 34° 27′, E. 23° 33′*†	29.93	760.2				w.			5		0			2 h'r	2 h'r	h'vy	sw.	hazy.
S. Annie M. Law, S. 22° 52′ E. 67° 43′*†	30.15	765.8	69	20.6		se.			2		3		wsw.	½h'r	½h'r	con.	sw.	clear.
S. S. Burswell, Suez Bay, Egypt *†	30.00	762.0	84	28.9		n.			2		2		nnw.	0	0	sm'h		clear.
Bk. Ceylon, S. 30° 04′, E. 37° 30′ *†	30.08	764.0	82	27.8	91	nw.			5		2		nnw.	0	0	r'gh	n.	clear.
S. Dynomine, S. 37° 20′ E. 28° 30′	29.74	755.4	62	16.7	94	sw.			6		7			h'vy	h'vy	high	w.	squally.
S. S. Malabar, N. 6° 00′, E. 84° 06′						sw.			4		5		sw.	0	0	h'vy	sw.	fair.
Bk. Pilgrim, S. 6° 42′, E. 109° 30′ *†	29.90	759.4				se.			1					0	0			fine.
S. S. Radnorshire N. 5° 46′, E. 90° 22′*†	29.86	758.4				ssw.			3		0			1 h'r	1 h'r	mod.	sw.	clear.
S. St. David, S. 22° 00′ E. 100° 08′*†	30.05	763.3	75.3	24.1	90	e.			3		7		ne.	0	0	h'vy	ne.	fair.
S. S. Foscolio, N. 2° 28′ E. 58° 53′*†	29.90	759.4				var.			1		2		nw.	4 h'r	4 h'r	long	var.	clear.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 17, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.84	757.9	65.1	18.4	82	e.			1		0			0	0	clear	Malaterre.
Algiers			29.94	760.4	65.8	18.8	85	ne.			3		6			0	0	cloudy	Thève.
La Calle			29.98	761.6	68.0	20.0	55	nw.			2		3			0	0	pretty fair	Fonfrède.
Tunis			30.05	763.3															Jacques.
Saida			29.95	760.8															Pérès.
Tebessa			30.06	763.5	79.5	26.4	16	nne.			4		3			0	0	pretty fair	St. Martin.
Geriville					81.3	27.4	15	sse.			7		0			0	0	clear	Forfert.
Laghouat			30.02	762.6	81.3	27.4	22	s.			1		0			0	0	clear	Abraham.
Biskra			30.09	764.2	85.6	29.8	48	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.05	763.3	55.7	13.2	72	sw.	8	3.6			9 k		w.	inap.	inap.	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.77	756.1	29.86	758.4	49.0	9.4	87	w.	10	4.5			1			0.12	3.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.89	759.2	80.8	27.1	36	ne.			3		5			inap.	inap.		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.12	739.6	29.86	758.4	72.3	22.4	48	w.	6.9	3.1			10			0.161	4.1	stormy	Dr. Wierzbiski
Eperies	28.99	736.4	29.82	757.5	77.9	25.5	46	calm			0		10 k			0.016	0.4		Julius Mikolik.
Gratz	28.77	730.8	29.99	761.7	66.7	19.3	61	n.			3		10			0.024	0.6	lightning	Andreas Rospini.
Hermannstadt	28.49	723.6	29.84	757.9	77.9	25.5	50	s.			3		10			0.047	1.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.71	729.1	30.01	762.3	65.5	18.6	72	calm			0		10			0.228	5.8	covered	The Staff.
Lemberg	28.92	734.5	29.86	758.4	75.4	24.1	48	s.			3		2			0	0		Dr. T. Stanecki.
Neu Schmecks	26.61	675.9	29.87	758 7	63.7	17.6	69	calm			0		9			0.079	2.0		Dr. V. von Szontagh.
Pola	29.87	758.7	29.98	761.5	68.4	20.2	76	wnw.			4		8			0	0		I. R. Hydrographic Office.
Szathmar	29.38	746.3	29.83	757.7	82.4	28.0	40	sw.			2		3			0.012	0.3		Joseph Midlinszky, S. J.
Szegedin	29.56	750.9	29.83	757.7	74.8	23.8	50	calm			0		3			0	0		Karl Stancel.
Trieste	29.87	758.7	29.97	761.2	75.2	24.0	45	sw.			1		4			0.004	0.1		Royal Academy.
Vienna	29.23	742.5	29.91	759.7	79.5	26.4	42	nw.			2		8			0.260	6.6		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.19	766 8	30.29	769.4	53.4	11.9	73	s.	7	3.1			7			0.035	0.9	d. clouds	W. Boswell.
Armagh, Observatory	30.19	766.8	30.42	772.7	60.7	15.9	56	wnw.	6	2.7			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.38	771.6	59.9	15.5	60	w.	14	6.3			1					blue sky	John Hartnup.
Bolton, Sharples	29.81	757.2	30.35	770.9	63.8	17.7	60	nw.	6	2.7			2					blue sky	Thomas Mackereth.
Bradford, Yorkshire	29.93	760.2	30.33	770.4	64.0	17.8	53	sw.			1		9			0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.00	762.0	30.02	762.5	83	28.3	67	ne.			1		2					d. clouds	Corpl. W. I. Cull, A. H. C.
Cardington	30.27	768.8	30.37	771.4	70.0	21.1	46	se.			0.4		7					d. clouds	John McLaren.
Chatham, School M. E.	30.26	768.6	30.39	771.9	56.1	13.4	72	e.			1		4					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	30.15	765.8	30.38	771.6	59.0	15.0	48	ene.			3		6					d. clouds	The Staff.
Fort Napier, Natal	27.72	704.1	29.94	760.5	75.5	24.2	34	e.			1							blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.70	754.4	29.93	760.2	83.0	28.3	79	sw.			1		5					raining	Sergt. C. E. Keane.
Galway, Queen's College	30.37	771.4	30.40	772.1	62	16.7	56	w.			1		0			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.94	760.5	30.00	762.0	68.4	20.2	92	nw.			3		2					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.16	766.1	30.36	771.1	54.1	12.3	62	w.			6		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	30.20	767.1	30.38	771.6	64.8	18.2	54	se.			1		4					d. clouds	The Staff.
Guernsey	30.02	762 5	30.32	771.1	60.0	15.6	71	ene.			2		2					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.35	770.9	30.38	771.6	63.8	17.7	57	e.	8	3.6								misty	The Staff.
Leicester, Museum	30.11	764.8	30.36	771.1	63.6	17.6	57	sw.			1		10					d. clouds	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.04	763.0	70.2	21.2	62	ne.					2					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.96	761.0	30.00	762.0	80.0	26.7	58	n.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.87	758.7	30.39	771.9	62.8	17.1	61	nw.			1		10					overcast	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.14	765.5	30.37	771.4	65.7	18.7	48	calm			0		5					misty	The Staff.
Plymouth	30.29	769.4	30.36	771.1	65.5	18.6	54	e.			2		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.13	765.3	30.23	767.8	48.4	9.1	78						2					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.74	755.4	29.80	756.9	61.4	16.3	86	sw.			1		10					misty	W. H. Lyne.
Sheffield	30.06	763.5	30.33	770.4	67.9	19.9	66	ssw.			1		4			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.33	770.4	30.36	771.1	59.5	15.3	62	w.			1		3			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.37	771.4	63.1	17.3	47	w.	11	4.9			0					d. clouds	W. C. Carlisle.
Truro, Royal Institution	30.35	770.9	30.44	773.2	73	22.8	42	ne.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.42	772.7	30.45	773.4	61.6	16.4	36	nnw.	18	8.0			1					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.67	753.6	30.06	763.5	69.8	21.0	41	w.	7.4	3.3		4 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.89	759.2	29.93	760.2	43	6.1	72	n.	13	5.8		5 c	2 s			0	0	fair	H. J. Cundall, C. E
Chatham, N. B*	29.94	760.5	30.00	762.0	48	8.9	44	nw.	7	3.1		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.98	761.5	30.17	766.3	42.2	5.7	74	w.			1	0	0			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.96	761.0	30.01	762.2	45.0	7.2		w.			2	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.00	762.0	30.02	762.5	43	6.1	93	nw.	15	6.7		0	0			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.82	732.0	29.63	752.6	55	12.8	83	se.	18	8.0		0	8 ks		ne.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.99	761.7	30.05	763.3	48.0	8.9	50	w.	4	1.8		0	0			0	0	bluesky	Prof. Harrison, L. L. D.
Granton, Ontario	29.13	739.9	30.27	768.8	37.0	2.8	100	e.	2	0.9		0	0			0	0	clear	Jas. Grant.
Halifax, N. S*	29.77	756.1	29.90	759.4	43	6.1	76	nw.	16	7.2		5 cs	0			0.983	25.0	fair	A. Allison.
Hamilton, Ontario	29.52	749.8	29.92	760.0	42.7	5.9	78	ne.			1	0	0			0	0	clear	Geo. Dickson, B. A.
Kingston, Ontario*	29.89	759.2	30.24	768.1	44	6.7	80	sw.	4	1.8		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.76	755.9	29.80	756.9	37.5	3.1	92	ne.			6		10 n			1.510	38.4	raining	C. H. Rigby.
Montreal, Quebec*	29.95	760.7	30.16	766.1	51	10.6	50	w.	8	3.6		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.93	760.2	30.18	766.6	44.6	7.0	63	w.			2	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.54	750.3	30.25	768.3	40	4.4	59	s.	3	1.3		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.50	749.3	30.25	768.3	45.2	7.3	62	w.			1	0	0			0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.55	750.6	30.31	769.9	44	6.7	70	calm	0	0		0	0			0	0	clear	H Morgan.
Port Stanley, Ontario	29.58	751.3	30.25	768.3	40	4.4	65	e.	4	1.8		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.73	755.1	30.09	764.3	44	6.7	80	s.	8	3.6		0	0			0	0	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	29.70	754.4	30.16	766.1	42	5.6	50	nw.	8	3.6		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B	29.98	761.5	30.03	762.7	48	8.9	49	n.	3	1.3		0	0			0	0	clear	
St. John's, N. F	29.85	758.2	30.02	762.5	45.0	7.2	68	ne.	8	3.6		0	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F	29.90?	759.4?	30.15?	765.8?	52	11.1	82	s.			2		10 ks			0.24	6.1	d. clouds	J. Higgins.
St. Pierre, N. F			29.76	755.9	44.6	7.0		sw.			4					0.72	18.3		The Commandant
Saugeen, Ontario*	29.50	749.3	30.23	767.8	44	6.7	60	se.	8	3.6		0	0			0	0	clear	
Stratford, Ontario	28.95	735.3	30.26	768.6	39.4	4.1	68	calm	0	0		0	0			0	0	blue sky	C. J. Macgregor, M A
Sydney, C. B*	29.74	755.4	29.80	756.9	38	3.3	92	n.	16	7.2			10 n			2.02	51.3	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.88	758.9	30.27	768.8	44	6.7	56	nw.	3	1.3		0	0			0	0	clear	Magnetic Observatory.
Windsor, N. S	29.84	757 9	29.94	760.5	40.0	4.4	82	n.	16	7.2		0	2 ks			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.17	740.9	30.25	768.3	45.1	7.3	58	ne.	1	0.4		0	0			0	0	hazy	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.92	760.0	29.99	761.7	46	7.8	68	n.	3	1.3		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
London, Ontario	29.34	745.2	30.27	768.8	40.2	4.6	61	calm			0	0	0			0	0	blue sky	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.06	763.5	30.09	764.3	67.0	19.4	83	w.	6.0	2.7		3 c	0			0	0	hazy	John Duthie.
Springbok Fontein	27.89	708.4			74	23.3	25	nw.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.12	637.9																	A. Gueluy.
Tchang-kia-tchouang	29.74	755.3	29.85	758.1	81.1	27.3	16	sw.			1		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.96	761.0	29.99	761.7	65.8	18.8	87	ene.	7.2	3.2			6;fg			0	0	very cloudy.	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.10	764.6	30.15	765.8	58.8	14.9	58	n.	13	6			1						Oversergent Fischer.
Fanoe	30.24	768.0	30.26	768.5	57.2	14.0	52	wsw.			6		1						Overloerer Lauridsen.
Godthaab, Greenland	29.85	758.1	29.89	759.2	33.3	0.7	80	ne.			4		3						S. Kleinschmidt.
Jacobshavn, Greenland	29.95	760.8	30.00	762.0	30.9	— 0.6		s.			2		8						
Stykkisholm, Iceland	29.77	756.1	29.81	757.2	43.2	6.2	87	sw.			4		2						A. O. Thorlacius.
Thorshavn	30.04	763.0	30.06	763.6	46.8	8.2	71	w.	20	9			6						Overloerer Bergh.
Vestervig	30.17	766.2	30.26	768.5	54.0	12.2	57	nw.			4		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.78	756.5			79.5	26.4		n.	7.6	3.4		1 c	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.52	749.8	30.15	765.7	78.8	26	38	ene.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.74	755.4	30.29	769.4	68.2	20.1	61	sw.			1	0	0			0	0	clear	M. Nicot, Director.
Arras, Engineer School	30.03	762.8	30.29	769.3	63.5	17.5	57	ne.			1		k			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.01	762.2	30.09	764.2	80.6	27	56	w.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.63	752.7	30.18	766.5	72.9	22.7	54	ene.			1	0	0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.04	763.1	30.30	769.7	67.1	19.5	38	ne.			2		0			0	0	clear	M. Frère Eugène Marié.
Besançon, Normal School	29.23	742.5	30.09	764.3	80.6	27	38	n.			2	c	0	ne.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.83	757.7	30.09	764.2	79.5	26.4	40	e.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.60	751.7	30.12	765.1	78.8	26	39	n.			3		1		n.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	30.03	762.7	30.27	768.9	72.3	22.4	72	ne.			2		2		ne.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.22	767.7	30.30	769.7	66.2	19	60	nw.			3		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.87	758.6	30.18	766.5	78.3	25.7	45	n.			2		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.74	755.3	30.24	768.1	70.5	21.4	44	nne.			3		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.79	731.2	30.08	764.0	78.8	26.0	36	n.			1		2			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.27	743.5	30.10	764.4	80.6	27	34	nw.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.36	745.8	30.20	767.1	69.8	21	54	e.			2		0			0	0		Dr. Coulet, Director.
Gap, Normal School	27.58	700.4	30.01	762.3	75.9	24.4	33	ne.			3	0	4 k		nw.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.98	736.2	30.06	763.6	78.1	25.6	40	sw.			1		1		sw.	0	0		M. Kina, Director.
Grenoble. Normal School	29.32	744.8	30.07	763.7	78.8	26	53	sw.			1	ck	0	ne.		0.130	3.3		M. Ablard, Director.
Guéret, Normal School	28.59	726.1	30.10	764.6	77.9	25.5	32	ne.			1	0	0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.08	764.0	30.35	770.8	73.4	23	55	n.			2		1		n.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.47	748.5	30.01	762.2	81.3	27.4	30	e.			1	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	764.6	30.21	767.2	79.7	26.5	42	ne.			2		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.07	738.3	30.09	764.3	75.2	24.0	36	n.			1	0	0			0	0	light haze	M. André, Director.
Mans, Normal School	29.92	760.0	30.22	767.6	71.6	22	43	e.			3		0			0	0	clear	M. Piboën, Director.
Marseille, Observatory	29.83	757.6	30.09	764.3	72.9	22.7	54	sw.			1		0			0	0		M. Stephan, Director.
Montlouis	24.98	634.5	29.82	757.5	63.0	17.2	31	se.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.87	758.8	30.00	761.9	78.1	25.6	69	w.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.39	746.5	30.14	765.6	73.8	23.2	55	nne.			1	c	0			0	0	foggy	M. Hasse, Director.
Nantes, Observatory	30.05	763.3	30.21	767.4	77.9	25.5	55	ene.			0–1	0	0			0	0	clear	M. Larocque, Director.
Perpignan, Observatory	30.01	762.2	30.12	765.0	72.1	22.3	45	e.	9.4	4.2			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	544.0			46.4	8.0		calm			0		1		s.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.04	737.6	30.06	763.6	79.3	26.3	45	n.			1		0			0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.36	644.1			56.3	13.5	61	ene.			3	0	2 k			0	0	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.07	763.7	30.10	764.5	81.7	27.6	53	ene.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.92	759.9	30.13	765.2	77.7	25.4	54	e.			3		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.04	712.2	30.10	764.4	78.8	26	31	calm			0	0	1 k			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.30	769.5	30.34	770.7	70.5	21.4	33	e.			1		0			0	0	clear	M. Mouillot, Dir.
Saint Maur, Observatory	30.10	764.6	30.26	768.7	71.1	21.7	37	ne.			1		1		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.43	747.4	30.15	765.8	83.1	28.4	39	ne.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.01	762.3	30.19	766.8	77.4	25.2	39	nne.			2		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.78	756.5	30.28	769.0	70.5	21.4	32	e.			3					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.92	760.0	30.07	763.8	81.9	27.7	31	n.	4.0	1.8		3 c	0	sw.		0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.71	729.3	30.13	765.4	71.6	22.0	50	ne.			4		1	ne.		0	0		Prof. Jnedt.
Bamberg	29.28	743.8	30.13	765.3	70.3	21.3	50	ne.			3	1 cs	0			0	0		Prof. Dr. Hoh.
Berlin	30.01	762.2	30.15	765.8	68.7	20.4	24	n.			3		1			0	0		Meteorological Institute.
Breslau	29.52	749.9	30.06	763.4	63.3	17.4	64	nnw.			7		10			0	0		Royal University Obs'y
Carlsruhe	29.71	754.7	30.16	766.1	72.5	22.5	57	nne.			2		0			0	0		Albert Senz.
Cassel	29.48	748.8	30.19	766.9	66.0	19.2	39	nw.			4		6	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.17	766.3	70.7	21.5	37	nne.			2		1			0	0		Physical Society.
Friedrichshafen	28.72	729.4	30.09	764.3	69.3	20.7	62	wnw.			1		8	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.16	766.1	30.25	768.4	62.6	17.0	56	nnw.			3		2	wnw.		0	0		E. Preller.
Kiel	30.23	767.8	30.24	768.2	59.9	15.5	38	ne.			1		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.76	756.0	30.18	766.5	65.5	18.6	40	nnw.			3		7			0	0		H. Leppig, Asst.
Magdeburg	30.00	762.1	30.19	766.8	66.9	19.4	55	nw.			3		6	nw.		0	0		Dr. Assmann.
Memel	29.91	759.8	29.96	761.0	58.6	14.8	75	n.			3	0	8 ks						Issermann.
Munich	28.25	717.6	30.12	765.0	75.7	24.3	40	nw.			2		5	w.		0.366	9.3		Central Station.
Neufahrwasser	29.98	761.5	30.00	761.9	51.8	11.0	87	nw.			3		10			0.201	5.1		A. Lothes.
Neustadt, Palatinate	29.60	751.7	30.13	765.2	73.0	22.8	35	nne.			3		0			0	0		Dicknether.
Stuttgart	29.18	741.1	30.04	763.0	72.5	22.5	57	n.			1		3	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.20	767.0	30.22	767.6	58.1	14.5	68	nnw.			3	0	3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.52	749.9	29.90	759.4	73.2	22.9		se.			1.5	0	4 k			0.004	0.1	thnd'r storm	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.60	751.8	29.65	753.1	86.7	30.4	85	w.	34.0	15.2			6		w.	0	0	d. clouds	
Deesa	29.12	739.6	29.57	751.0	104.0	40.0	24	w.	17.0	7.6			0			0	0	blue sky	
Bombay	29.73	755.1	29.77	756.0	86.9	30.5	72	wnw.	15.0	6.7			4		wnw.	0	0	d. clouds	
Poona, Yarrowda	27.89	708.4	29.69	754.1	93.0	33.9	31	nw.	28.0	12.5			0			0	0	blue sky	
Trichinopoly	29.41	747.1	29.66	753.9	101.7	38.7	40	wnw.	1.0	0.4			5	nne.	ne.	0	0	d. clouds	
Belgaum	27.22	691.5	29.72	754.8	83.8	28.8	58	ese.	12.0	5.4			0			0	0	blue sky	
Lahore	28.73	729.8	29.43	747.4	107.3	41.8	20	nw.	4.0	1.8			0			0	0	blue sky	
Roorkee	28.58	725.9	29.43	747.4	104.3	40.2	11	calm	2.0	0.9			0			0	0		
Agra	28.94	735.0	29.47	748.4	108.1	42.3	12	sw.	8.0	3.6			1		sw.	0	0	d. clouds	
Nagpur	28.52	724.5	29.50	749.4	108.5	42.5	13	sw.	10.0	4.5			5		w.	0	0	d. clouds	
Jubbulpore	28.24	717.3	29.52	749.9	105.1	40.6	10	wnw.	10.0	4.5			0			0	0	blue sky	
Lucknow	29.11	739.5	29.47	748.5	106.4	41.3	26	wsw.	7.0	3.1			0			0	0	hazy	
Allahabad	29.17	740.8	29.46	748.3	106.0	41.1	19	calm	4.0	1.8			0			0	0	blue sky	
Patna	29.29	744.0	29.47	748.5	103.7	39.8	26	nw.	5.7	2.6			0			0	0	blue sky	
Hazaribagh	27.57	700.2	29.48	748.8	99.4	37.4	12	nw.	7.5	3.4			2			0	0		
Cuttack	29.54	750.4	29.62	752.4	89.6	32.0	65	wnw.					7	s.		0	0	d. clouds	
Calcutta, Alipore	29.57	751.0	29.59	751.5	87.2	30.7	72	ssw.	12.0	5.4			10			0	0	overcast	
Dhubri	29.52	749.7	29.64	752.8	75.3	24.1	90	e.	15.0	6.7			10			0.94	23.9	overcast	
Chittagong	29.61	752.1	29.70	754.4	82.8	28.2	88	s.	6.8	3.0			3		s.	0	0	blue sky	
Sibsagar	29.38	746.2	29.72	754.8	77.8	25.4	83	ne.	2.0	0.9			10	w.	w.	0.30	7.6	d. clouds	
Jeypore	28.12	714.4	29.49	749.1	104.7	40.4	12	wnw.	17.5	7.8			2		wnw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.19	716.0	.....	.....	104.6	40.3	15	nw.	6	2.7	.....	1 ck	2	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.94	760.5	82.0	27.8	81	ssw.	8.1	3.6	.....	.....	7	s.	ese.	0.01	0.3	d. clouds	
ITALIAN.																			
Udine	29.57	751.1	29.97	761.2	79.5	26.4	35	sw.	3.1	1.4	.....	.....	3	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.53	750.1	30.04	762.9	79.2	26.2	41	sw.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Prof. G.V.Schiapparelli.
Padua	29.86	758.4	29.97	761.1	78.6	25.9	39	wnw.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.15	740.5	30.03	762.8	75.4	24.1	44	nnw.	2.5	1.1	.....	.....	1	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.90	759.5	30.09	764.3	68.9	20.5	54	sw.	4.9	2.2	.....	.....	0	.....	.....	0.020	0.5	.....	Prof. G. M. Garibaldi.
Mondovi	28.18	715.8	30.04	763.1	73.9	23.3	29	wnw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.92	760.0	29.97	761.2	77.0	25.0	35	n.	9.8	4.4	.....	.....	1	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.79	756.6	30.04	763.0	73.6	23.1	40	wsw.	.....	.....	2	.....	0	.....	.....	0.024	0.6	.....	Prof. Costantino Pittei.
Leghorn	29.93	760.2	30.02	762.4	69.6	20.9	63	ssw.	1.8	0.8	.....	.....	1	.....	.....	0.110	2.8	.....	Prof. P. Monte.
Rome	29.87	758.8	30.05	763.2	74.5	23.6	48	w.	9.8	4.4	.....	.....	2	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.72	754.8	29.97	761.1	70.5	21.4	45	nnw.	16.1	7.2	.....	.....	4	nw.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.12	739.6	29.98	761.6	77.0	25.0	71	sw.	3.8	1.7	.....	.....	1	w.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.85	758.2	30.04	763.1	69.8	21.0	39	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.82	757.5	30.07	763.8	68.5	20.3	51	ne.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.94	760.5	29.98	761.6	72.0	22.2	69	nne.	13.0	5.8	.....	.....	6	wnw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.52	749.8	30.03	762.8	72.0	22.2	71	w.	5.6	2.5	.....	.....	5	ne.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.34	567.3	.....	.....	37.0	2.8	88	ene.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	22.38	568.5	.....	.....	53.6	12.0	45	e.	.....	.....	1	.....	6	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.74	755.5	29.77	756.4	52.0	11.1	80	calm	.....	.....	0	3 ck	7 ck	w.	w.	0.287	7.3	cloudy	H. Hattori.
Awomori	29.70	754.4	29.73	755.1	51.5	10.8	71	se.	3.6	1.6	.....	8 cs	0	.....	.....	0	0	cloudy	K. Ogawa.
Hamamatsu	29.81	757.2	29.84	757.9	59.4	15.2	88	calm	.....	.....	0	0	0	.....	.....	0.067	1.7	clear	
Kagoshima	29.95	760.6	29.96	760.9	64.6	18.1	61	nw.	.....	.....	4	0	7 s	.....	nw.	0	0	fair	G. Miyanonaza.
Kioto	29.67	753.7	29.85	758.1	60.5	15.8	90	wnw.	2.7	1.2	.....	0	7 ck;ks	.....	w.	0.067	1.7	fair	M. Tojima.
Miasaka	29.90	759.5	29.93	760.2	64.7	18.2	92	calm	.....	.....	0	1 cs	0	w.	.....	0	0	clear	K. Masusaki.
Miyako	29.66	753.2	29.76	756.0	51.0	10.6	73	nnw.	0.9	0.4	.....	0	0	.....	.....	0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.76	755.9	29.96	761.0	61.8	16.6	89	w.	0.6	0.3	.....	2 c	0	w.	.....	0	0	clear	S. Takehayashi.
Niigata	29.75	755.6	29.79	756.6	59.1	15.1	63	se.	5.5	2.4	.....	.....	10 ck	.....	w.	0.150	3.8	cloudy	M. Morita.
Nobiru	29.72	754.7	29.73	755.1	58.7	14.6	69	sse.	11.1	5.0	.....	3 ck	7 s	w.	.....	0	0	cloudy	H. Midzushima.
Numazu	29.79	756.7	29.83	757.6	62.1	16.7	81	calm	.....	.....	0	6 ck	0	.....	.....	0	0	fair	R. Kaneda.
Osaka	29.82	757.5	29.84	757.9	61.6	16.4	80	wnw.	1.7	0.7	.....	0	5 ck;s	.....	w	0	0	fair	H. Omura.
Tokei Obs'y, Yeddo	29.75	755.6	29.82	757.4	57.8	14.3	91	nne.	2.0	0.9	.....	0	5 ck;ks	.....	sw.	0.061	1.5	fair	The Staff.
Wakayama	29.79	756.7	29.84	758.0	63.6	17.6	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.90	759.4	30.09	764.3	75.0	23.9	65	e.	13.0	5.8	.....	0	2 k	.....	ese.	0.11	2.8	clear	The Staff.
MEXICAN.																			
Guanajuato	23.69	601.6	29.91	759.6	67.3	19.6	61	s.	inap.	inap.	.....	5 c;ks	0	ssw.	.....	inap.	inap.	light haze	Prof. Vicente Fernandez.
Leon	24.32	617.7	29.95	760.7	61.2	16.2	79	calm	0	0	.....	5 c	0	se.	.....	0.027	0.7	dense fog	Prof. M. Leal.
Mazatlan	29.68	753.7	29.93	760.3	68.0	20.0	72	nnw.	5.3	2.3	.....	0	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	59	15.0	75	ne.	12.1	5.4	.....	0	1 s	.....	e.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.38	771.6	30.38	771.5	56.7	13.7	.....	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.28	769.0	30.33	770.4	54.3	12.4	.....	n.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	30.36	771.2	30.36	771.2	50.2	10.1	.....	n.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.37	771.5	30.37	771.5	59.0	15.0	58	n.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	30.32	770.0	30.36	771.2	59.7	15.4	61	nnw.	.....	.....	2	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.83	757.7	.....	.....	81.0	27.2	85	n.	0	0	.....	.....	9	.....	.....	1.941	49.3	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	30.15	765.8	30.21	767.4	51.1	10.6	51	sw.	9	4	.....	.....	7	.....	.....	0	0	.....	
Brono	30.06	763.5	30.10	764.5	45.0	7.2	58	wsw.	.....	.....	4	.....	2	.....	.....	0	0	.....	
Christiania	30.01	762.3	30.16	766.0	58.8	14.9	30	ssw.	11	5	.....	.....	5	.....	.....	0	0	.....	
Gjæsvær	29.85	758.1	29.87	758.7	41.0	5.0	.....	wnw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.89	759.3	29.94	760.5	41.5	5.3	85	wsw.	.....	.....	6	.....	9	.....	.....	0.028	0.7	.....	
PORTUGUESE.																			
Angra, Azores	30.05	763.3	30.21	767.3	61.2	16.2	77	nne.	18.6	8.3	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.01	736.8	30.01	762.3	55.4	13.0	88	ese.	0.7	0.3	.....	.....	10	.....	.....	0.685	17.4	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.76	756.0	29.85	758.2	63.1	17.3	52	w.	11.2	5.0	.....	.....	9	.....	.....	0.020	0.5	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.65	753.0	29.98	761.5	58.3	14.6	63	s.	8.1	3.6	.....	.....	7	sw.	.....	1.378	35.0	.....	The Staff.
Ponta Delgada, Azores	30.04	763.1	30.11	764.9	57.9	14.4	82	nne.	24.2	10.8	.....	.....	10	.....	.....	0	0	.....	
Saint Paul de Loando	29.69	754.1	29.89	759.2	78.8	26.0	97	sw.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	
Serra da Estrella	25.19	639.7	29.95	760.6	43.9	6.6	100	ese.	52.8	23.6	.....	.....	10	.....	.....	0.787	20.0	foggy	
RUSSIAN.																			
Akmolinski	28.58	726.0	29.69	754.0	35.6	2.0	89	nne.	13	6	.....	.....	10 n	.....	.....	0.165	4.2	.....	Major K. Lasarew.
Archangel	29.88	759.0	29.90	759.5	54.7	12.6	38	sse.	2	1	.....	2 cs	0	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	29.77	756.2	29.08	753.8	77.0	25.0	71	wnw.	20	9	.....	0	5 k	.....	.....	0	0	.....	
Astrakhan	29.89	759.3	29.81	757.2	85.8	29.9	22	se.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	29.75	755.7	29.71	754.5	81.5	27.5	42	nne.	9	4	.....	0	2 ks	.....	.....	0	0	.....	
Barnaul	29.04	737.6	29.55	750.6	40.3	4.6	84	se.	4	2	.....	.....	10	.....	.....	0.701	17.8	.....	Meteorological Obs'y
Bielosersk	29.35	745.6	29.81	757.2	57.4	14.1	79	nne.	7	3	.....	.....	10 ks	.....	.....	1.433	36.4	.....	
Dorpat	29.63	752.5	29.87	758.7	51.4	10.8	89	n.	9	4	.....	.....	10ks;n	.....	.....	0.118	3.0	light rain	Observatory.
Ekaterinburg	28.94	735.0	29.91	759.7	43.7	6.5	47	w.	4	2	.....	.....	9 ks;n	.....	.....	inap.	inap.	.....	Meteorological Obs'y.
Elisawetgrad	29.47	748.6	29.89	759.3	84.2	29.0	25	ene.	9	4	.....	0	5 ks	.....	.....	0	0	.....	
Irkutsk	27.94	709.6	29.53	750.0	56.7	13.7	47	nw.	.....	.....	7	.....	9	.....	.....	0	0	.....	
Kasalinsk	29.35	745.6	29.53	750.1	86.4	30.2	28	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.53	750.0	29.79	756.6	67.3	19.6	56	nne.	13	6	.....	.....	9 ks;n	.....	.....	0.008	0.2	.....	Observatory.
Kem	29.76	755.8	29.81	757.1	46.4	8.0	72	e.	9	4	.....	.....	10 ks	.....	.....	0.008	0.2	heavy cl'd's.	
Kertch	29.81	757.2	29.84	757.8	65.5	18.6	76	se.	4	2	.....	0	5 k	.....	.....	0.024	0.6	.....	Lagorio & Sastyres.
Kieff	29.27	743.4	29.87	758.6	80.8	27.1	34	se.	4	2	.....	0	1 k;ks	.....	.....	0	0	.....	Observatory.
Koslov	29.34	745.1	29.84	758.0	80.4	26.9	38	calm	0	0	.....	0	1 k	.....	.....	0	0	.....	
Libau	29.96	760.9	29.98	761.5	50.0	10.0	79	nnw.	20	9	.....	.....	4	.....	.....	0	0	.....	
Lugan	29.61	752.1	29.78	756.5	84.2	29.0	25	ne.	13	6	.....	.....	2	.....	.....	0	0	.....	E. Quaas.
Moscow	29.35	745.5	29.79	756.7	78.6	25.9	27	n.	4.5	2.0	.....	0	2 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	29.77	756.1	29.84	758.0	84.7	29.3	46	calm	0	0	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaievsk-on-the-Amoor	29.56	750.7	29.64	752.9	35.2	1.8	88	calm	0	0	.....	.....	10	.....	.....	0.671	1.8	.....	Capt. Kurdakow.
Pekin, China	29.63	752.6	29.77	756.2	78.1	25.6	34	se.	2.2	1.0	.....	2 cs	0	.....	.....	0	0	.....	Iwanow.
Petro-Alexandrovsk	29.42	747.3	29.75	755.6	90.7	32.6	16	calm	0	0	.....	.....	10 ks	.....	.....	0	0	.....	Physical Observatory.
Petrozavodsk	29.58	751.2	29.77	756.2	50.2	10.1	88	se.	11	5	.....	.....	9 k	.....	.....	0.157	4.0	.....	
Pinsk	29.39	746.5	29.87	758.6	78.4	25.8	42	s.	18	8	.....	0	3 ks	.....	.....	0	0	.....	Dr. Bergmann.
Poti	29.83	757.7	29.86	758.5	65.1	18.4	94	wnw.	4	2	.....	.....	10 n	.....	.....	0.189	4.8	.....	
St. Petersburg	[illegible]	757.6	29.85	758.2	49.3	9.6	88	nw.	9	4	.....	.....	10 n	.....	.....	0.055	1.4	.....	Central Physical Obs'y.
Samarkand	27.40	696.0	29.72	754.9	82.6	28.1	30	w.	7.8	3.5	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	28.84	732.5	29.47	748.4	66.7	19.3	36	w.	20	9	.....	.....	10	.....	.....	0.051	1.3	.....	Major Lasarew.
Sevastopol	29.58	751.4	29.80	757.0	71.2	21.8	67	wsw.	16	7	.....	7 cs	0	.....	.....	0.051	1.3	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Staroi Bykhov	29.48	748.9	29.92	760.0	74.7	23.7	45	w.	2	1			10 n					thund'r st'm	
Tashkend	28.17	715.4	29.72	755.0	83.8	28.8	21	calm	0	0		0	2 s			0	0		Terch, A. M.
Tiflis	28.37	720.5	29.71	754.6	76.6	24.8	48	nnw.	2	1		0	6 ks			0.748	19.0		Physical Observatory.
Vernoe	27.28	692.8	29.65	753.2	73.0	22.8	33	w.	2	1		0	7 k			0	0		
Viatka	29.24	742.6	29.86	758.5	51.4	10.8	70	calm	0	0			10			0.217	5.5		
Warsaw	29.54	750.2	29.95	760.8	60.1	15.6	81	n.	16	7			10 kn			0.937	23.8	thud'r st'rm	Astronomical Obs'y.
Yeniseisk	29.43	747.5	29.72	755.0	34.0	1.1	69	sw.	4	2			8			0.075	1.9		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.36	771.1	52	11.1	93	nw.			3	3	3	nw.		0	0		J. Youngclause.
North Unst			30.16	766.1				sw.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.06	763.5	30.16	766.1	70.7	21.5	45	sw.	1.6	0.7		0	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.00	761.9	30.06	763.4	87.4	30.8	30	s.	3.1	1.4		3	0	sw.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.12	688.8	29.98	761.5	71.8	22.1	42	ne.	6.7	3.0		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.2	29.95	760.6	75.6	24.2	42	se.	17.0	7.6		1	0			0.130	3.3	almost clear	The Staff.
Murcia, Met. Obs'y	29.91	759.6	30.04	762.9	72.1	22.3	54	ene.	8.5	3.8		0	2			0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.15	740.4	30.03	762.7	76.1	24.5	89	w.	7.8	3.5		4 n	4 n	sw.	sw.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.98	736.1	29.84	758.0	72.3	22.4	51	ne.	5.6	2.5			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.94	760.5	30.00	762.1	76.5	24.7	83	sse.	4.5	2.0		0	3 k		n.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.4	29.84	757.8	80.8	27.1	81	e.	19.7	8.8		4 ck	6 kn			0.322	8.2	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.4	30.07	763.9	63.0	17.2	68	e.	6.1	2.7		0	2		w.	0.125	3.2		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.89	759.1	29.98	761.4	81.7	27.6	85	calm	0	0		1 s	2 k	s.	s.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.78	756.3	29.82	757.3	55.8	13.2	49	n.			2		5			0	0		
Umea	29.92	760.0	29.97	761.3	57.9	14.4	63	nnw.			2		6			0	0		
Hernosand	30.03	762.8	30.08	764.1	54.0	12.2	27	nw.			4		0			0	0		
Stockholm	29.94	760.4	30.11	764.9	55.4	13.0	27	nnw.			4		5			0	0		
Wisby	30.03	762.7	30.09	764.2	46.8	8.2	67	nne.			6		0			0.350	8.9		
Sub-series.																			
Upsala	30.00	762.1	30.09	764.3	53.6	12.0	33	nnw.	15.7	7.0			7		wnw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.71	729.2	30.08	764.0	72.7	22.6	49	nnw.			2		2			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			29.82	757.5	70.2	21.2	68	nw.	7	3.0			10		n.	0	0		The Observatory.
Valona			30.09	764.2	73.9	23.3		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.1	74.8	23.8	68	sw.			3		7 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.81	681.0			58	14.4	72						10 n		e.			cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.16	766.1	30.24	768.1	50.5	10.3	54	n.	4	1.8		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.53	750.0	30.19	766.8	41	5.0	73	calm	0	0		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.91	632.7	29.73	755.1	40	4.4	92	sw.	3	1.3			10 s			0.66	16.8	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	26.77	679.9	29.61	752.1	49	9.4	66	sw.	14	6.3		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.04	737.6	30.21	767.3	60.5	15.8	55	ne.	11	4.9		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.20	767.1	30.21	767.3	49	9.4	56	n.	9	4.0		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.04	763.0	30.23	767.8	63	17.2	47	ne.	8	3.6		5 c	0	nw.		0	0	fair	John Healy.
Baltimore, Maryland	30.23	767.8	30.28	769.1	52	11.1	41	n.	4	1.8		0	0			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.16	766.1	30.18	766.6	51.5	10.8	66	n.	16	8.0		0	0			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.84	757.9	29.86	758.4	36.2	2.3		s.	14	6.3			fg.			0	0	light fog	Dr. Leonard Steineger.
Bennett, Fort, Dakota	27.95	709.9	29.51	749.5	61.0	16.1	92	se.	15	6.7		6 k	4 s	se.	se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	26.78	680.2	29.57	751.1	47	8.3	58	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.41	670.8	29.59	751.6	42	5.6	76	calm	0	0		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	27.74	704.6	29.53	750.0	54	12.2	93	ne.	6	2.7			fg.			0	0	dense fog	Cyrus Cramer.
Block Island, Rhode Island	30.10	764.5	30.13	765.3	49	9.4	63	ne.	16	7.2		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	26.93	684.0	29.77	756.1	43	6.1	76	w.	4	1.8		0	3 s			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.98	761.5	30.14	765.5	50.0	10.0	63	n.	10	4.5		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.75	755.6	29.79	756.7	79.2	26.2	84	s.	20	8.9		5 cs	4 s	s.	s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.50	749.3	30.24	768.1	41.3	5.2	82	s.	4	1.8		0	hz.			0	0	clear	W. Finn.
Buford, Fort, Dakota																			F. A. Mellen.
Burlington, Vermont	29.90	759.4	30.19	766.8	46.3	7.9	61	calm	0	0		0	0			0	0	clear	D. N. Farnell.
Cairo, Illinois	29.73	755.1	30.13	765.3	59.6	15.3	62	se.	12	5.4			10 s			0	0	threatening.	W. H. Ray.
Cape Henry, Virginia	30.17	766.3	30.19	766.8	53	11.7	66	n.	8	3.6		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey																			W. E. Smith.
Cape Mendocino, California	29.28	743.7	29.96	761.0	44	6.7	93	nw.			1	4 k	0	nw.		0.06	1.5	fair	J. J. McLean.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	70	21.1	70	ne.	7	3.1		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.11	764.8	30.16	766.1	64.0	17.8	63	ne.	8	3.6		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.22	767.6	61.0	16.1	40	ne.	1	0.4		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.40	746.7	30.21	767.3	56.0	13.3	74	e.	2	0.9		1 cs	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.57	598.7	29.44	747.8	51.3	10.7	86	se.	8	3.6			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.44	747.8	30.14	765.5	55.1	12.8	68	se	2	0.9		4 c	0			0	0	fair	John Laurens.
Chincoteague, Virginia	30.18	766.6	30.20	767.1	50	10.0	64	n.	18	8.0		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.59	751.6	30.24	768.1	56.0	13.3	62	se.	5	2.2		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.52	749.8	30.25	768.3	41.5	5.3	68	se.	7	3.1		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.00	711.2	29.78	756.4	60	15.6	87	w.	26	11.6			10 ks		w.	2.01	51.1	threatening.	T. J. Kenan.
Columbus, Ohio	29.40	746.7	30.24	768.1	49	9.4	56	n.	4	1.8		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	27.89	708.4	29.79	756.7	57.0	13.9	100	s.	5	2.2			10 n			0.86	21.8	light rain	J. McGlone.
Davenport, Iowa	29.36	745.7	30.00	762.0	59	15.0	75	se.	12	5.4			10 s		sw.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	24.99	634.7	29.71	754.6	52	11.1	69	sw.	8	3.6		0	0		sw.	0	0	clear	J. Williams.
Dayton, Washington Ty	28.05	712.5	29.80	756.9	49	9.4	32	s.	16	7.2			10 s			0.33	8.4	cloudy	D. Moore.
Deadwood, Dakota	25.00	635.0	29.52	749.8	47	8.3	100	s.	1	0.4			10 n		sw.	0.02	0.5	light rain	F. Willson.
Delaware Breakwater, Del.	30.20	767.1	30.22	767.6	50	10.0	72	n.	16	7.2		0	0			0	0	clear	T. S. Townsend.
Denver, Colorado	24.19	614.4	29.35	745.5	57.0	13.9	72	se.	2	0.9			10 s			inap.	inap.	cloudy	F. M. Neal.
Des Moines, Iowa	28.96	735.6	29.86	758.4	58	14.4	75	se.	8	3.6			10 n			0.01	0.3	light rain	F. W. Conrad.
Detroit, Michigan	29.52	749.8	30.22	767.6	47.0	8.3	68	s.	3	1.3		0	0		se.	0	0	clear	E. R. Brace.
Dodge City, Kansas	26.93	684.0	29.48	748.8	60	15.6	100	sw.	32	14.3			10 s			3.65	92.7	cloudy	J. H. Bryce.
Dubuque, Iowa	29.30	744.2	30.00	762.0	59.2	15.1	60	se.	7	3.1			10 s			0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.22	742.2	29.97	761.2	41	5.0	82	ne.	6	2.7			10 s		se.	inap.	inap.	cloudy	N. B. Conger.
Eagle Pass, Texas	28.96	735.6	29.76	755.9	77.2	25.1	76	se.	3	1.3		0	0		ne.	0.01	0.3	clear	F. Belford.
Eagle Rock, Idaho	24.86	631.4	29.54	750.3	34	1.1	74	sw.	12	5.4		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	29.96	761.0	30.04	763.0	46.0	7.8	54	n.	6	2.7		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	26.91	683.5	29.61	752.1	55	12.8	80	nw.	8	3.6		10 k	0	n.		3.80	96.5	cloudy	W. J. Cundall.
El Paso, Texas	26.16	664.5	29.80	756.9	43.0	6.1	53	sw.	4	1.8		0	0			0.02	0.5	clear	J. O'Dowd.
Erie, Pennsylvania	29.52	749.8	30.24	768.1	47	8.3	63	s.	3	1.3		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.43	747.5	30.09	764.3	48.5	9.2	67	s.	4	1.8		hz.	hz.			0	0	dense haze	George Heathcote.
Galveston, Texas	29.85	758.2	29.89	759.2	78	25.6	88	se.	20	8.9		3 cs	5 ks			inap.	inap.	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.50	749.3	30.16	766.1	54.5	12.5	44	e.	6	2.7		2 c	hz.			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.16	639.1	29.78	756.4	40	4.4	62	nw.	4	1.8		0	1 s			1.07	27.2	clear	Robert C. Lord.
Hatteras, North Carolina	30.11	764.8	30.13	765.3	62	16.7	56	ne.	20	8.9		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.42	645.7	29.60	751.8	43	6.1	76	sw.	5	2.2		0	0			0	0	clear	N. C. Smith.
Huron, Dakota	28.24	717.3	29.60	751.8	57.9	14.4	86	se.	19	8.5			10 n			inap.	inap.	light rain	S. W. Glenn.
Indianapolis, Indiana	29.39	746.5	30.18	766.6	56.0	13.3	69	se.	5	2.2		4 cs	6 s	w.		0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.80	756.9	29.83	757.7	78.7	25.9	86	s.	20	8.9		5 cs	5 k	sw.	s.	inap.	inap.	cloudy	I. A. Reed.
Jacksboro, Texas	28.60	726.4	29.75	755.6	70	21.1	84	s.	20	8.9			10 s		s.	0.89	22.6	cloudy	D. J. Carr.
Jacksonville Florida	30.09	764.3	30.13	765.3	71	21.7	51	ne.	3	1.3		0	0			0	0	clear	J. W. Smith.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.05	687.1	29.50	749.3	50	10.0	74	calm	0	0		3 k	0			0	0	clear	W. B. Lamar.
Keokuk, Iowa	29.30	744.2	29.95	760.7	58.0	14.4	65	se.	16	7.2			10 s		sw.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.96	761.0	29.98	761.5	79.8	26.6	79	ne.	14	6.3		0	2 k		ne.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.17	766.3	30.19	766.8	55	12.8	62	ne.	24	10.7		0	0			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.19	741.4	30.21	767.3	52.5	11.4	82	ne.	5	2.2		3 c	0	nw.		0	0	clear.	J. A. Cody.
La Crosse, Wisconsin	29.18	741.2	29.94	760.5	61	16.1	56	se.	10	4.5			10 s		se.	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.89	733.8	29.77	756.1	55	12.8	86	se.	16	7.2			10 n		s.	0.93	23.6	light rain	A. W. Browne.
Lewiston, Idaho	28.93	734.8	29.77	756.1	47.0	8.3	68	w.	9	4.0			10 n			0.30	7.6	light rain	W. Bell.
Little Rock, Arkansas	29.67	753.6	29.98	761.5	60	15.6	81	e.	4	1.8			10 k		s.	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.60	751.8	30.00	762.0	53	11.7	93	se.	4	1.8			10 n			0.04	1.0	light rain	T. S. Collins.
Louisville, Kentucky	29.61	752.1	30.16	766.1	55	12.8	80	sw.	1	0.4		10 c	sk.			0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.54	750.3	30.22	767.6	58	14.4	53	nw.	1	0.4		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.49	749.0	30.14	765.5	45.1	7.3	53	e.	4	1.8		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.13	765.3	30.14	765.5	61.0	16.1	72	nw.	11	4.9		0	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.20	640.1	29.61	752.1	53	11.7	44	e.	3	1.3		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.32	744.7	30.04	763.0	47	8.3	48	ne.	5	2.2		0	0			0	0	clear	E. H. Thompson.
Memphis, Tennessee	29.71	754.6	30.04	763.0	60	15.6	70	e.	4	1.8			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.38	746.2	30.12	765.0	53	11.7	72	s.	5	2.2			10 s		sw.	0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.38	670.0	29.68	753.9	40	4.4	73	n.	2	0.9			10 s			0	0	threatening.	J. H. Young.
Mobile, Alabama	30.05	763.3	30.09	764.3	68	20.0	62	ne.	4	1.8		3 c	0			0	0	clear	C. A. Read.
Montgomery, Alabama	29.87	758.7	30.10	764.5	64.3	17.9	53	ne.	4	1.8		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.67	728.2	29.65	753.1	59	15.0	81	se.	28	12.5			10 s		se.	0	0	cloudy	H. Bessaut.
Mt. Washington, N. H.	23.79	604.3	29.97	761.2	20.6	— 6.3	81	n.	20	8.9		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.56	750.8	30.13	765.3	54.0	12.2	80	e.	6	2.7		7 cs	0	w.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.07	763.8	30.19	766.8	50	10.0	44	ne.	11	4.9		0	hz.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.13	765.3	30.18	766.6	57	13.9	64	n.	4	1.8		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	72.5	22.5	82	se.	2	0.9		5 c	0	w.		0	0	fair	H. C. Smyth.
New York, New York	30.04	763 0	30.22	767.6	50	10.0	52	nw.	9	4.0		0	0			0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.16	766.1	30.19	766.8	59	15.0	48	n.	12	5.4		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	26.62	676.1	29.49	749 0	59.6	15.3	64	e.	12	5.4			10 n			0.04	1.0	light rain	E. F. Brady.
Olympia, Washington T'y.	29.85	758.2	29.89	759.2	42.0	5.6	92	calm	0	0			10 s			0.16	4.1	cloudy	J. Dascomb.
Omaha, Nebraska	28.55	725.2	29.71	754.6	57.8	14.3	84	se.	16	7.2			10 n		se.	1.26	32.0	light rain	A. Pollak.
Ogalaamie, Alaska	29.33	745.0	29.35	745.5	25.5	— 3.6	100	sw.	15	6.7			10 s			0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.92	760.0	30.25	768.3	42.5	5.8	71	w.	7	3.1		0	0			0	0	clear	J. G. Linsley.
Palestine, Texas	29.34	745.2	29.88	758.9	76.0	24.4	82	s.	17	7.6			10 s		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.09	764.3	71.2	21.8	56	e.	6	2.7		3 cs	0	w.		0	0	clear	M. McGauran.
Philadelphia, Pa.	30.16	766.1	30.26	768.6	49	9.4	77	n.	11	4.9		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.42	442.5	29.48	748.8	22	— 5.6	100	se.	13	5.8			10 n		se.	0.32	8.1	light snow	H. Hall.
Pioche, Nevada	23.75	603.2	29.67	753.6	39.0	3.9	52	s.	10	4.5		4 ck	0	sw.		0	0	fair	F. R. Day.
Pittsburg, Pennsylvania	29.44	747.8	30.24	768.1	44.0	6.7	72	ne.	1	0.4		0	0			0	0	clear	W. A. Reid.
Poplar River, Montana	27.43	696.7	29.55	750.6				se.			1	0	0			0.12	3.0	clear	W. D. Maxwell.
Port Huron, Michigan	29.53	750.0	30.21	767.3	46.0	7.8	68	s.	6	2.7		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.08	764.0	30.13	765.3	52	11.1	47	n.	6	2.7		0	0			0	0	clear	W. W. Eichelberger
Portland, Oregon	29.78	756.4	29.86	758.4	44.2	6.8	86	s.	6	2.7			10 s		s.	0.34	8.6	cloudy	M. L. Hearne.
Portsmouth, N. C.					62	16.7	60	ne.	21	9.4		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.62	625.3	29.72	754.9	38.8	3.8	77	s.	14	6.3			10 s		s.	0.09	2.3	cloudy	Jas Cassidy.
Provincetown, Mass	30.07	763.8	30.10	764.5	48.5	9.2	63	n	17	7 6		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	73	22.8	76	e.	10	4.5		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.56	750.8	29.92	760.0	42	5.6	100	n.	2	0.9		0	0			0.58	14.7	clear	J. R. Williams.
Rochester, New York	29.61	752.1	30.27	768.8	40	4.4	73	w.	8	3.6		0	hz.			0	0	clear	E. W. McGann.
Roseburg, Oregon	29.39	746 5	29.94	760.5	39.1	3.9	84	e.	4	1.8		1 cs	4 s	w.	sw.	0.24	6.1	fair	J. J. Nanry.
Sacramento, California	29.91	759.7	29.99	761.7	45.5	7.5	93	se.	4	1.8			10 s			0.22	5.6	cloudy	J. A. Barwick.
St. Louis, Missouri	29.47	748.5	30.06	763.5	57.5	14.2	83	se.	10	4.5			10 s		sw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.55	750.6	29.59	751.6	25	— 3.9	100	sw.	8	3.6			10 s			0.03	0.8	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.03	737.3	29.87	758.7	55.5	13.1	90	s.	15	6.7			10 n		s.	0.67	17.0	light rain	P. F. Lyons.
St. Vincent, Minnesota	28.78	731.0	29.64	752.8	57	13.9	64	se.	12	5.4			10s;sk			0	0	cloudy	O. B. Dilley
Salt Lake City, Utah	25.24	641.1	29.56	750.8	57.0	13.9	45	se.	1	0.4		2 k	0	sw.		0	0	clear	J. Craig.
San Antonio, Texas	29.07	738.4	29.77	756.1	77	25.0	85	s.	7	3.1		10 cs	0	s.		0.06	1.5	cloudy	J. H. Davis.
San Diego, California	29.94	760.5	30.01	762.2	53.8	12.1	78	e.	7	3.1			9 s		sw.	inap.	inap.	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.19	766.8	30.22	767.6	49.0	9.4	63	n.	23	10.3		0	0			0	0	clear	B. A. Blundon.
Sanford, Florida	30.04	763.0			72	22.2	62	ne.	6	2.7		0	0			0	0	clear	J. B. Marbury.
San Francisco, California	29.92	760.0	29.99	761.7	48.5	9.2	77	w.	16	7.2		1 k	0	nw.		0.05	1.3	clear	N. Gorom.
Santa Fé, New Mexico	22.83	579.9	29.44	747.8	31	— 0.6	92	sw.	16	7.2			10 n		sw.	0.48	12.2	light snow	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.17	766.3	67	19.4	76	nw.	4	1.8		1 c	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	25.96	659.4	29.56	750.8	39	3.9	82	w.	3	1.3		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.08	753.9	29.92	760.0	70.5	21.4	70	se.	5	2.2		3 cs	5 s	w.	se.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.44	722.4	29.66	753.4	70	21.1	97	s.	12	5.4			10 n			1.16	29.5	heavy rain	W. M. Mattingly.
Sitka, Alaska	29.59	751.6	29.65	753.1	48	8.9	77	ne.	6	2.7		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.37	746.0	29.84	757.9	63.3	17.4	73	e.	12	5.4			10 s		s.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.12	765.0	30.16	766.1	63	17.2	78	ne.	4	1.8		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.70	703.6	29.75	755.6	45	7.2	100	sw.	10	4.5			10 n			0.15	3.8	light rain	John F. Hemenway.
Springfield, Illinois	29.40	746.7	30.07	763.8	58	14.4	58	s	13	5.8			10 s		sw.	inap.	inap.	cloudy	T. B. Jennings.
Springfield, Missouri	28.45	722.6	29.87	758.7	60	15.6	70	se.	20	8.9			10 s		sw.	0	0	cloudy	J. H. Bryce.
Starkville, Miss.	29.64	752.8	30.11	764.8	62	16.7	72	e.	7	3.1		5 c	2 s			0	0	fair	C. Dill.
Stevenson, Fort, Dakota	27.71	703.8	29.54	750.3	53	11.7	93	n.	1	0.4		2 c	0	w.		0	0	clear	A. Schneider.
Stockton, Fort, Texas	26.84	681.7	29.85	758.2	53	11.7	74	w.	3	1.3		0	0			0.19	4.8	clear	A. J. Warren.
Thatcher's Island, Mass.	30.10	764.5	30.16	766.1	40.5	8.1	73	n.	14	6.3		0	0			0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.18	690.4	29.85	758.2	49	9.4	80	nw.			1		8 ks		se.	0.77	19.6	cloudy	J. T. Fitzgerald.
Toledo, Ohio	29.53	750.0	30.21	767.3	50	10.0	59	sw.	4	1.8		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.54	699.5	29.88	758.9	48	8.9	71	e.	4	1.8		0	1 s			0.35	8.9	clear	J. L. Whiteside.
Unalaska, Alaska	29.02	752.3	29.64	752.8	35	1.7	63	n.	20	8.9			10 s			0.02	0.5	cloudy	Samuel Applegate.
Verde, Fort, Arizona					47	8.3	44	se.			1		10 k		se.	0.17	4.3	cloudy	O. L. Pease.
Vicksburg, Mississippi	29.80	756.9	30.05	763.3	62.4	16.9	76	e.	8	3.6		6 ck	3 s	n.		0	0	cloudy	James Kenealy.
Visalia, California	29.52	749.8	29.89	759.2	55.0	12.8	89	s	1	0.4			10 s		s.	0.20	5.1	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.13	612.9	29.61	752.1	39.0	3.9	79	se.	3	1.3		9 k	0			0	0	cloudy	T. M. Ambler.
Washington, D. C.	30.10	766.1	30.27	768.8	50.4	10.2	52	n.	8	3.6		0	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.49	647.4	29.34	745.2	51.5	10.8	77	nw.	7	3.1			10 s		sw.	0.14	3.6	cloudy	F. H. Brandenburg.
Williamsport, Pa.	29.68	753.9	30.28	769.1	43.5	6.4	64	w.	5	2.2		0	0			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.12	765.0	30.17	766.3	62	16.7	78	ne.	3	1.3		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.38	644.6	29.73	755.1	37	2.8	71	sw.	4	1.8		0	3 s		sw.	0.14	3.6	clear	J. Grover.
Yankton, Dakota	28.33	719.6	29.01	752.1	58	14.4	100	se.	8	3.6			10 n			0.28	7.1	light rain	J. H. Attfield.
Yuma, Arizona	29.77	756.1	29.92	760.0	55.7	13.2	61	nw.	4	1.8		0	1s;hz		nw.	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			56.0	13.3	80	calm	0	0			10ks;s		nw.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			29.99	761.7			78	calm	0	0		0	0			0.03	0.8	clear	Robtrt Johnston.
Paramaribo, S. A.	30.00	762.0	30.00	762.0	79	26.1	87	e.			3	5 ck	5 k	e.		0.650	16.5	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	79	26.1	89	calm			0	5 c	2 s	s.	calm	0.09	2.3	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79	26.1	90	ne.			1	ck	ks	se.	e.	0	0		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
Santiago de Cuba, W. I.	29.94	760.5	29.97	761.2	81	27.2	79	calm	0	0		0	4 ks		se.	0.13	3.3		R. Mason.
York Factory, B. A.	29.88	758.9	29.94	760.5	44.5	6.9	96	sw.	12	5.4		4 k	3 s	sw.	sw.	0.08	2.0	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, Malta, Mediterranean	30.11	764.8	66	18.9	68	nnw.			2		2	nnw.						d. clouds.
H. M. S. Dido, Barbadoes, W.I.	30.02	762.5	81	27.2		e.			1		3	e.				1	sse.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.94	760.5	71	21.7	85	nnw.			2		1	nnw.						blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.02	762.5	60.5	15.8	79	s.			3		4	ssw.						d. clouds.
H. M. S. Neptune, N. 40° 54′ W. 10° 12′	29.93	760.2	60	15.6		ssw.			2		10	ssw.				2	ssw.	raining.
H. M. S. Rocket, N. 38° 32′, W. 28° 38′	30.29	769.4	64	17.8	89	nne.			5		5							squally.
H. M. S. Tyne, N. 23° 37′, W. 83° 40′	30.03	762.7	78	25.6	73	ne.			3		5	calm				1	ne.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	29.90	759.4	45	7.2	84	nnw.			6		4	n.						squally.
U. S. Navy Yard, Pensacola, Fla.	30.02	762.5	72	22.2	58	ne.	5	2.2			2		ne.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H*	30.07	763.8	51	10.6	65	n.	10	4.5			0			0	0			clear.
U. S. S. Alliance, Norfolk, Va.	30.19	766.8	59	15.0	70	nne.			3		0							fair.?
U. S. S. Colorado, New York, N. Y.	30.25	768.3	51	10.6	52	nw.	8	3.6			0			0	0			clear.
U. S. S. Franklin, Norfolk, Va.	30.18	766.6	58	14.4	70	nne.	8	3.6			0			0	0			clear.
U. S. S. Jamestown, Newport, R. I*†	30.07	763.8	48	8.9	49	n.			3		0							clear.
U. S. S. Kearsarge, Hampton Roads, Va.	30.24	768.1	58	14.4	76	nne.			4		0							clear.
U. S. S. Lancaster, Kronstadt, Russia	29.93	760.2	49	9.4	100	w.			2		10		calm			sm'h		light rain.
U. S. S. Michigan, Erie, Pa.	30.23	767.8	47	8.3	77	calm			0		0							clear.
U. S. S. Minnesota, New York, N. Y.	30.24	768.1	51	10.6	65	nnw.					0							clear.
U. S. S. New Hampshire, Newport, R. I.	30.10	764.5	51	10.6	59	nne.			4		0					sm'h		clear.
U. S. S. Portsmouth, Newport, R.I.	30.21	767.3	46	7.8	92	n.			2									clear.
U. S. S. Powhatan, Cartagena, U.S.C.	29.84	757.9	83	28.3	91						5							fair.
U. S. S. Quinnebaug, Sinou river, Liberia, Africa	29.95	760.7	80	26.7	96	ne.			2		2		ne.			sm'h	ne.	fair.
U. S. S. Saratoga, N. 38° 01′, W. 74° 14′	30.14	765.5	51	10.6	93	nne.			3–4		8 ?		nne.	0	0	mod.	nne.	clear?
U. S. S. St. Louis, League Island, Pa.	30.27	768.8	47	8.3	54	nnw.	7.5	3.4			0			0	0			clear.
U. S. S. Swatara, N. 21° 23′, W. 89° 30′ †	29.93	760.2	77	25.0	91	ese.			3		5		e.	0	0	long	ese.	fair.
U. S. S. Tennessee, Fort Monroe, Va.	30.26	768.6	66	18.9	54	nne.	18	8.0			0			0	0			clear.
U. S. S. Vandalia, Hampton Roads, Va.	30.18	766.6	57	13.9	69	ne.			4		0							clear.
U. S. S. Wabash, Boston, Mass.	30.15	765.8	50	10.0	51	n.	5	2.2			0							clear.
U. S. S. Yantic, Fortress Monroe, Va.	30.22	767.6	51	10.6	100	ne.			3–4		0							clear.
Commewyne, N. 42° 53′, W. 34° 31′	30.45	773.4	62.9	17.2	95	wnw.			2		10							foggy.
S. S. Illinois, Liverpool, Eng.*	30.29	769.4	66	18.9		wnw.			3		5		w.					fine.
S. S. Lord Gough, Queenstown, Ireland	30.29	769.4	57	13.9		sse.			3		2		se.	0	0	sm'h		clear.
S. S. Ohio, N. 46° 27′, W. 35° 11′ †	30.45	773.4	52	11.1	93	sw.			1		6		ne.	0	0	sm'h	w.	light fog.
S. S. Pennsylvania, N. 39° 59′, W. 51° 28′ †	30.08	764.0	71	21.7		ssw.			4		2		sw.			mod.	sw.	clear
S. S. Circassian, Quebec, Canada	30.13	765.3	50	10.0	79	ssw.			2		2		n.	0	0			d. clouds.
S. S. Grecian, N. 47° 45′, W. 50° 20′	30.01	762.2	41	5.0	100	ssw.			5		10		ssw.	6 h'r	6 h'r	mod.	sw.	dense fog.
S. S. Polynesian, Montreal, Canada	30.13	765.3	52	11.1		w.			1		1		calm	0	0			hazy.
S. S. Manitoban, N. 48° 31′, W. 68° 27′	30.05	763.3	40	4.4	82	w.			2		3		nw.	0	0	sm'h	w.	clear.
S. S. Scandinavian N. 47° 26′, W. 59° 07′*	29.71	754.6	34	1.1		var.					10			6 h'r	6 h'r			raining.
S. S. Sardinian, N. 46° 38′ W. 43° 06′	30.30	769.6	53	11.7		ssw.			2		fg.			0	0	sm'h		foggy.
S. S. Alvo, N. 35° 00′, W. 74° 26′	30.14	765.5	66	18.9		n.			4–5		7 k		n.	2 h'r	2 h'r	high	n.	cloudy.
S. S. Andes, San Juan, Porto Rico, W.I.*	29.88	758.9	80	26.7		e.			3		3?		ne.	0	0			cloudy.?
S. S. Alene, N. 34° 30′, W. 74° 26′ †	30.10	764.5	68	20.0		n.			5		1		nne.	0	0	long	nne.	clear.
S. S. Ailsa, Arecibo, Porto Rico, W. I†	29.87	758.7	81	27.2		ne.			2				ne.	8 h'r	8 h'r			light rain.
S. S. Anchoria, N. 45° 18′, W. 45° 20′ †	30.32	770.1				s.			3		fg.			0	0	sm'h		foggy.
S. S. Assyria, N. 40° 26′, W. 61° 43′	29.88	758.9	53	11.7		w.			4		10		w.	0	0	r'gh	w.	overcast.
S. S. Bolivia, Glasgow, Scotland *†	30.50?	774.7?	55	12.8		w.			3		8							
S. S. Dorian, New York, N.Y.	30.25	768.3																
S. S. Furnesia, N. 40° 40′, W. 52° 35′†	30.08	764.0	69	20.6	90	s.			5		5		s.	0	0	mod.	ssw.	hazy.
S. S. Elysia, N. 40° 56′, W. 67° 00′	29.95	760.7	43	6.1	97	nnw.			4		2		nnw.	8 h'r	8 h'r	light	n.	clear.
S. S. Llandaff City, N. 41° 56′, W. 59° 30′†	29.90	759.4	42	5.6		sw.			6		9		w.	0	0	high	sw.	cloudy.
S. S. Bothnia, N. 47° 26′, W. 37° 33′	30.36	771.1	66	18.9	89	w.			2		fg.			rain	rain	sm'h		foggy.
S. S. Scythia, N. 40° 30′, W. 69° 10′	30.02	762.5	46	7.8	100	nnw.			2					0	0	sm'h		clear.
S. S. Canada, N. 40° 23′, W. 71° 31′	30.09	764.2	50.0	10.0		nw.			3	c	0	nw.		0	0	sm'h	ne.	almost clear.
S. S. France, N. 45° 05′, W. 34° 54′ †	30.30	769.7	57.2	14.0		w.			3		10		w.	rain	rain	sm'h	w.	
S. S. Ville de Marseilles, Port au Prince, Hayti, W.I.			75	23.9		ne.			2		0			0	0	sm'h		clear.
S. S. Arizona, N. 44° 39′, W. 42° 54′	30.41	772.4	60	15.6		ssw.			4		3		sw.	0	0	sm'h		clear.
S. S. Wyoming, N. 51° 33′, W. 83° 40′	30.44	773.2	58	14.4		e.			2		4		n.	0	0	sm'h		fair.
S. S. Bohemia, Hamburg, Germany						nnw.			3		4		nnw.	0	0			fair.
S. S. Gellert, N. 48° 30′, W. 28° 20′	30.58	776.7	55	12.8	87	nnw.			2		7		se.	0	0	sm'h	ese.	fair.
S. S. Rhaia, N. 43° 42′, W. 42° 02′	30.45	773.4	68	20.0		ssw.			5		5		ssw.	0	0	mod.	s.	fair.
S. S. Silesia, N. 34° 06′ W. 71° 29′	30.05	763.3	59.2	15.1		n.					2		w.	0	0	3	ne.	clear.
S. S. Westphalia, New York, N. Y.	30.22	767.6	51	10.6	79	w.			2		4		n.	0	0			fair.
S. S. Wieland, N. 45° 47′, W. 35° 03′	30.46	773.7				w.			1		2		w.	0	0	sm'h	w.	foggy.
S. S. Bulgarian, N. 45° 37′, W. 42° 50′	30.43	772.7				ssw.			1		2		w.	0	0			light fog.
S. S. Colorado, New York, N. Y †.	30.20	767.1	50	10.0		n.			6		0			0	0			clear.
S. S. Rio Grande, N. 34° 45′, W. 75° 05′*†	30.09	764.3	71	21.7		nne.			6		1		nne.	0	0	h'vy	ne.	clear.
S. S. San Marcos, off Alligator Reef, Fla			79	26.1		ne.			4		1		ne.			sm'h		clear.
S. S. Chalmette, N. 27° 40′, W. 87° 20′ †	30.15	765.8	77	25.0		se.			5		0			0	0	sm'h	se.	clear.
S. S. New York, N. 29° 30′, W. 79° 50′			70	21.1		n.			6		3		ne.			r'gh	n.	clear.
S. S. Lone Star, N. 38° 25′, W. 74° 24′ †	30.09	764.3	54	12.2		nne.			3		0			0	0	small	var.	clear.
S. S. Alleghany, Montauk Point, Long Island †	30.21	767.3	48	8.9		n.			4		0			0	0	long	e.	clear.
S. S. Archimede, N. 38° 05′, W. 46° 47′ †	30.44	773.2	72	22.2	62	s.			4		3		s.	0	0	mod.	s.	clear.
S. S. Denmark, N. 50° 04′, W. 4° 15′ †.	30.32	770.1	56	13.3		ene.			3		2		ene.	0	0			clear.
S. S. England, N. 42° 47′, W. 44° 11′	30.33	770.4	63	17.2		s.			4		0			0	0	sm'h	e.	clear.
S. S. Greece, N. 41° 35′, W. 46° 29′*	30.31	769.9	69	20.6	?	se.			3				se.	0	0	mod.	se.	clear.
S. S. Helvetia, New York, N. Y.	30.24	768.1	59	15.0	82	nw.			1		2		nw.	0	0			clear.
S. S. America, N. 49° 13′, W. 17° 50′*	30.55	776.0	58.5	14.7	88	ne.			5		10		ne.	0	0	light	ne.	overcast.
S. S. Braunschweig, N. 44° 37′ W. 39° 16′	30.48	774.2	62.0	16.7	88	s.			1–2		10		w.	0	0	r'gh	sw.	foggy.
S. S. Elbe, N. 40° 02′, W. 68° 34′	30.05	763.3	44	6.7	92	nnw.			4		1		nnw.	0	0	sm'h	nnw.	clear.
S. S. Fulda, N. 41° 08′, W. 57° 26′	29.78	756.4	66	18.9	84	ssw.			6		6		ssw.	0	0	mod.	ssw.	fair.
S. S. Hohenzollern, N. 42° 57′, W. 40° 56′ *	30.47	773.9	65.3	18.5		w.			1		1		w.	1 h'r	1 h'r	sm'h		clear.
S. S. Hohenstaufen, Weser river, Germany	30.25	768.3				nne.			4		2		nne.	0	0	light	nne.	clear.
S. S. Main, N. 49° 06′, W. 18° 08′	30.46	773.7	53.6	12.0		var.			3–5		4		ene.			sm'h	e.	fair.
S. S. Neckar, N. 41° 00′, W. 59° 17′	29.81	757.2	61.0	16.1	100	ssw.			6		5		sw.	0	0	cross	sw.	fair.
S. S. Oder, N. 49° 27′, W. 17° 02	30.47	773.9	54.5	12.5		nne.			5		2		ne.	0	0	mod.	ne.	clear.
S. S. Ohio, N. 51° 50′, W. 2° 30′	30.42	772.7				ne.			2		10		ne.	0	0	light	e.	cloudy.
S. S. Strassburg, N. 44° 49′, W. 33° 08′	30.49	774.4	72.0	22.2	80	sw.			1		10		w.			1	w.	foggy.
S. S. Werra, N. 50° 40′ W. 0° 10′	30.38	771.6	59	15.0		ene.			2–3		5		ene.	0	0	sm'h	e.	fair.
S. S. Orinoco, New York, N.Y			61	16.1		nne.			2		0			0	0			clear.
S. S. Colon, N. 16° 22′, W. 76° 00′†	29.95	760.7	82	27.8		ese.			3		0			0	0	mod.	ese.	clear.
S. S. Muriel, N. 32° 55′ W 68° 50′	29.80	756.9	78	25.6		n.			6		10			3 h'r	3 h'r	r'gh	n.	cloudy.
S. S. City of Augusta, Savannah, Ga†	30.09	764.3				sse.			2		4		se.	0	0			fair.
S. S. Belgenland, Antwerp, Belgium	30.34	770.6	74	23.3	81	n.			4		0			0	0			clear.
S. S. Rhynland, N. 41° 00′, W. 66° 30′	30.00	762.0	42	5.6	91	nnw.			4		0			4 h'r	4 h'r	sm'h		clear.
S. S. Pennland, N. 47° 23′, W. 28° 04′	30.52	775.2	59	15.0	70	se.			3		9		s.	0	0	mod.	nw.	cloudy.
S. S. Waesland, N. 42° 44′, W. 44° 19′	30.40	772.1	68	20.0		sse.			4		4		sse.	0	0	mod.	s.	fair.
S. S. Rotterdam, N. 41° 34′, W. 62° 00′	29.74	755.4	52	11.1	83	nw.			6		8		nw.	0	0	4	nw.	hazy.
S. S. Schiedam, N. 45° 47′, W. 30° 49′	30.43	772.9	64.6	18.1	91	ese			4		9		se.	0	0	sm'h		foggy.
S. S. W. A. Scholten, N. 40° 08′, W. 69° 32′	30.14	765.5	46.2	7.9	84	ne.			5		0			0	0	3	se.	clear.
S. S. Zaandam, N. 49° 14′, W. 24° 50′	30.55	776.0	62.2	16.8	85	e.			2		7 n		e.	6 h'r	6 h'r			rain & fog.
S. S. Valencia, Curacao, W. I†	30.09	764.3	85	29.4	79	ene.			5		2		ne.	0	0			clear.
S. S. State of Florida, New York, N. Y.			49	9.4		nnw.			4		0			0	0			clear.
S. S. State of Georgia, N. 50° 10, W. 36° 07′†	30.47	773.9	58	14.4		ese.			5		8		ese.	0	0	sm'h		hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. State of Nevada, Glasgow, Scotland†	30.28	769.1	57	13.9		wnw.			3–6		10		w.	0	0			cloudy.
S. S. State of Alabama, N. 41° 48′, W. 38° 32′*	30.45	773.4	64	17.8		nw.			3		10		nw.	0	0	sm'h		foggy.
S. S. Marengo, N. 42° 41′, W. 45° 00′			70	21.1		s.			6		8		s.	2 h'r	2 h'r	long	sw.	hazy.
S. S. Romano, N. 47° 09′, W. 21° 03′†	30.43	772.9	54	12.2		ne.			6		7		ne.			h'vy	ne.	fair.
S. S. Lake Manitoba, Liverpool, Eng	30.43	772.9	60	15.6		sse.			3		7		ese.	0	0			fair.
S. S. Daniel Steinmann, N. 47° 49′, W. 32° 26′†	30.52	775.2	63	17.2		e.			1		9			0	0	light	e.	hazy.
S. 'S Plantyn, N. 40° 47′, W. 50° 30′	30.10	764.5							5		5		sse.	7 h'r	7 h'r	hv'y	sse.	fair.
S. S. Norman, N. 41° 00′, W. 71° 33′	30.06	763.5				n.			1		0			0	0	sm'h		clear.
S. S. Saxon, Philadelphia, Pa†	30.18	766.6				nnw.			4		1			0	0			clear.
S. S. Adriatic, N. 51° 03′, W. 15° 24′			58	14.4	94	nne.			4		9		nw.	0	0	sli't	ne.	cloudy.
S. S. Germanic, N. 42° 09′ W. 51° 22′			50	10.0		sse.			5		fg.			3 h'r	3 h'r	long	sse.	foggy.
S. S. Iowa, off Mine Head, Ireland†	30.43	772.9	58	14.4		ne.			1		0			0	0	sm'h		clear.
S. S. Assyrian Monarch, N. 48° —′ W. 36° —′	30.35	770.9	56	13.3		se.			2					0	0		var.	foggy.
S. S. Antonio Lopez, N. 37° 59′, W. 33° 06′	30.45	773.4	61	16.1	?	n.			4		7			0	0	mod.	n.	squally.
Schr. Abbie H. Gheen, N. 33° 08′, W. 78° 05′†	30.17	766.3	67	19.4		nne.			3					0	0			clear.
Bg. Abbie Clifford, N. 21° 30′, W. 69° 00′†	30.02	762.5	80	26.7		se.			1		8			light	light	sm'h	ne.	cloudy.
Bk. Alpha, N. 45° 20′, W. 42° 30′*†	30.35	770 9	62	16.7		wsw.			3		10		w.	0	0	sm'h		foggy.
Bg. Alcira, Maracaybo, Venezuela	29.95	760.7	83	28.3		e.			2		7		ne.	0	0			fair.
Bk. Adelaide, N 21° 41′, W. 43° 17′*†	30.29	769.4	77	25.0		e.			6		1		ese.	2 h'r	2 h'r	r'gh	e.	clear.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.10	764.5	85	29.4		se.			1		5		ese.	0	0			fair.
Schr. Authur Burton, N. 33° 23′, W. 76° 41						nnw.			2		1		nw.	0	0	h'vy	nnw	fine.
Bk. Achille F, N. 8° 30′, W. 26° —′†	30.00	762.0	80	26.7	77	nne.			4		5		ne	0	0	mod.	var.	fair.
Bk Arda, N. 41° 13′, W. 72° 07′*†	30.10	764.5				calm			0		3		sse.	0	0	sm'h		clear.
Bg. Annie R. Storer, N. 22° 50′, W. 71° 30′	30.02	762.5				w.			3		2		w.	0	0	sm'h	e.	clear.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.94	760.5	83	28.3		ene.			2		2		ene.	0	0			clear.
Bg. Belle of the Bay, N. 32° 10′. W. 74° 23′†	30.08	764.0				n.			6		5		ne.	0	0	long	n.	fair.
Bk. Champion, N. 20° 40′. W. 62° 30′			80	26.7	91	s.			2		10		sse.	6 h'r	6 h'r	cross	s.	cloudy.
Bkt. C S. Bushnell, N. 39° 15′, W. 67° 30	30.05	763.3				n.			5		0			0	0	h'vy	var.	fine.
Ship. Cornelius, N. 48° 32′, W. 7° 00′†	30.25	768.3	56.8	13.8		ene.			5		0			0	0	cross	ene.	clear.
Bk. Childwall, N. 30° 17′, W. 43° 21′ *			68	20.0		ese.			4		5		nnw.	0	0	light	e.	fair.
Schr. Glotilde, N. 32° 19′, W. 73° 41′*†	29.98	761.5	71	21.7		nne.			5		5		n.	4 h'r	4 h'r	h'vy	nne.	fair.
S Criterion, Rathlin Island, Ireland*†	30.40	772.1	63	17.2		nnw.			3		10		nnw	0	0	sm'h		hazy.
S. David Stewart, N. 34° 10′, W. 52° 16′†	30.10	764.5				se.			6		6		sse.	rain	rain	cross	se.	squally.
Bkt. David A. Preston, N. 28° 25′, W. 67° 22′			76	24.4		se.			6		10		w.	4 h'r	4 h'r	long	s.	
Schr. Edith R. Seward, N. 18° 30′, W. 78° 00′†	30.06	763.5	87	30.6		s.			1		1		ene.	0	0	sm'h	e.	clear.
S. E. J. Spicer, Liverpool, Eng	30.37	771.4	59	15.0	88	wnw.			2		0			0	0			clear.
Bk. E. D. Bigelow, N. 43° 14′, W. 56° 29′*†	29.75	755.6	57	13.9		sse.			4		fg.			0	0	cross	ssw.	dense fog.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	30.30	769.6	57	13.9	63	n.			3		1		calm	0	0			clear.
Schr. F. E McDonald, Cedar Keys, Fla †	30.11	764 8				ne.			4					0	0			clear.
S. Festina Lente, off Bic Island, Canada	30.02	762.5	40	4.4		ssw.			1		0			0	0			clear.
Bk. George Davis, N. 39° 32′, W. 52° 29′						s.							se.	¼ h'r	½ h'r	h'vy	sse.	
Bk. Gronsvaer, N. 13° 02′, W. 48° 21′†	29.97	761.1	78.8	26.0		ne.			5		5		ne.	¾ h'r	¾ h'r	long	ne.	fair.
Bk. Galeon, N. 20° 49′ W 99° 33′†	29.99	761.7	79	26.1		ese.			3		0			0	0	sm'h	sse.	blue sky.
S Hedwig, N. 40° 42′, W. 33° 30′	30.49	774.4	62.8	17.1	97	nne.			2		4		nne.	1 h'r	1 h'r	2	n.	
Bk. Hattie G. McFarland, Port Royal, S. C*†	30.05	763.3	66	18.9		nw.			1		2		w.	0	0			fine.
Bk. John H. Pearson, N. 30° 12′, W. 35° 52′						ne.			1				ne.	0	0	short	var.	cloudy.
Bk. Cato, N. 46° 28′, W. 15° 00′*†	30.16	766.1				nne.			6		4		ne.	0	0	r'gh	ne.	fair.
Bg. John Wesley, Batley's Mills, Ga*†	30.09	764.3				n.			1		0			0	0			clear.
Schr. Jennie N. Huddell, Baltimore, Md†	30.24	768.1	65	18.3	94	nw.			1		0			0	0			clear.
Bkt. Josephine, N. 21° 10′, W. 59° 45′ †	30.01	762.2	82	27.8	67	se.			4		5		se.	0	0	mod.	se.	fair.
Schr. Leonessa, Baltimore, Md†	30.33	770.4				nw.			4		0			0	0			clear.
Bg. L. & W. Armstrong, N. 28° 19′, W. 70° 09′*†	29.92	760.0				nw.			4		1		nw.	2½ h'r	2½ h'r	mod.	nw.	clear.
Light House Tender Laurel, St. Andrew Bay, Fla†	30.13	765.3	72	22.2		ene.			1		3		ne.	0	0			clear.
Bg. Lilian, Georgetown, British Guiana			80	26.7		se.			3		10		e.	4 h'r	3 h'r			rainy.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	80	26.7		calm			0		4			0	0			fair.
S. S. Madrid, Ancona, Italy†	30.10	764.5	71	21.7	71	wnw.			2		0			0	0			clear.
Schr. Minnie A. Bonsall, N. 30° 38′, W. 74° 55′†	30.15	765.8	65	18.3		nnw.			5		0			0	0	r'gh	nnw.	clear.
Bkt. Kryolith, N. 61° 09′, W 51° 06′*†.	30.00	762 0				calm			0		5		s.	0	0	light	s.	hazy.
S. Mt. Washington, N. 3° 45′ W. 26° 10′*†	30.02	762.5	85	29.4	79	calm			0		2			0	0	cf'd	var.	clear.
Bk. Matilda C. Smith, N. 39° 24′, W. 71° 35′†	30.11	764.8				n.			5		3		nw.	0	0	r'gh	nw.	fine.
Bgt. Myrtle, N. 33° 40′, W. 57° 42′ *†	30.10	764.5				s.			4		5		se.	0	0	long	se.	fair.
Bk. Matthias, N. 39° 47′, W. 46° 26′*†	30.47	773.9	71	21.7		ssw.			5–6		4		nne.	0	0	mod.	sw.	hazy.
Schr. Maggie Abbott, N. 32° 15′, W. 76° 23′†	29.99	761.7				nne.			6		4		w.	0	0	cross	var.	clear.
S. S. Mendoza, N. 12° 07′, W. 47° 41′ †	30.05	763 3				ne.			0				ne.	0	0	sm'h	ne	clear.
Schr. Maud Briggs, N. 22° 46′, W. 58° 18′ *†	30.15	765.8				se.			3		3		s.	2 h'r	2 h'r	sm'h	se.	clear.
Bk. Ottawa, N. 40° 09′, W. 51° 44′*	30.06	763.5	69	20.6		s.			0		8		s.	2 h'r	2 h'r	mod.	ssw.	cloudy.
S. S. Raleigh, N. 36° 00′, W. 74° 45′†	30.08	764.0	66	18.9		n.			1		0					light	n.	clear.
Bk Rebus, N. 49° 50′, W. 5° 30′	30.30	769.6	54	12.2		ene.			4		2		ene.	0	0	mod.	ene.	fair.
Bk. Rosalie, Saint John, Antigua, W. I*†	29.98	761.5				ese.			3				sse.	1½ h'r	1½ h'r			cloudy.
Bk. Scud, N. 33° 30′, W. 62° 18′*†	29.86	758.4	73	22.8		sw.			0		8		sw.	sq 'lls	sq 'lls	short	w.	squally.
Bk. Southern Belle, Huelva, Portugal†	29.97	761.2				sw.			2					0	0			fair.
S. St. Francis, N. 37° 14′, W. 39° 56′ †	30.71	779.8	70	21.1	57	e.			2		2		se.	0	0	sm'h	n.	fine.
Bgt. Sunlight, Demerara, British Guiana*†						ese.			2		10		ese.	1 h'r	1 h'r			raining.
Bg. Teneriffe, N. 21° 25′, W. 74° 02′ *	29.88	758.9				calm			0		0							
Bk. Tuck Sing, N. 33° 37′, W. 71° 33′*†	29.98	761.5				nne.			5		0			0	0	h'vy	var.	fine.
Bk. Usko, N. 42° 55′, W. 43° 02 *	30.44	773.2	62	16.7		s.			2		1		s.	0	0	mod.	sw.	light fog.
S. Vincenzo Accame, N. 38° 50′, W. 64° 15′†	29.92	759.9	60.8	16		n.			6		10		nnw.	2⅔ hr	2⅔ hr	r'gh	nnw.	squally.
Schr. Viola Reppard, N. 39° 45′, W. 72° 17′†	30.10	764.5	67	19.4		n.			2		1		calm	0	0	mod.	sw.	clear.
Bk. Winifred, N. 25° 33′, W. 64° 35′													ssw.	0	0		ne.	squally.
S. Wm. McGilvery, N 6° 52′, W. 28° 46′*†	30.00	762.0	79	26.1	78	ene.			5		8		ene.	0	0	mod.	ne.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.16	766.1	58.5	14.7	97	ene.			2		8							d. clouds.
H. M. S. Boadicea, Cape Town, Cape Colony, Africa	30.09	764.3	63	17.2	89	wnw.			1		4							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.08	764.0	59	15.0	88	ne.			2		1		calm					blue sky.
H. M. S. Thetis, S. 34° 46′, W. 29° 31′	30.06	763.5	75	23.9	77	nnw.			3		3		nw.			3	ssw.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.05	763.3	60	15.6	88	ene.	7	3.1			0			0	0	sm'h		clear.
U. S. S. Galena, Montevideo, Uruguay*	30.04	763.0	58	14.4	94	ene.			1		0					sm'h		clear.
May Hulse, S. 50° 53′, W. 45° 50′	29.59	751.6	40.2	4.6	82	nw.			7		9							d. clouds.
S. S. Archimides, S. 7° 32′, W. 34° 35′	29.90	759.4				se.			3		2		e.	0	0	light	e.	clear.
S. S. Hevelius, Buenos Ayres, La Plata†	30.06	763.5	59	15.0		n.			4		10		n.	0	0			cloudy
S. Minnie N. Gerow, S. 30° 45′, W. 20° 48′ †	30.08	764.0	68	20.0		sse.			1		10		w.	0	0	long	sw.	threatening.
S. Paramita, S. 30° 04′, W. 35° 14′ †	30.16	766.1	67	19.4		se.			3–6		2		ese.	0	0	small	sw.	clear.
S. Storm King, S. 55° 21′, W. 64° 01′ *†	29.48	748.8				nw.			5		5		nw.	0	0	rg'h	w.	fair.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.94	760.5	71	21.7	85	ne.			1		2		ne.					d clouds.
H. M. S. Champion, N. 13° 22′, E. 100° 34′	29.09	754.1	85	29.4	100	s.			4		8		s.			1	s.	d. clouds.
H. M. S. Sappho, N. 10° 00′, W. 84° 46′	29.86	758.4	80	26.7	100	ne.			1		5		ne.					d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 05′	29.88	758.9	56	13.3	87	calm			0		0							misty.
H. M. S. Magpie, N. 17° 00′, E. 117° 50′	29.74	755.4	84.1	28.9	79	ese.			4		5		ese.			4	ese.	d. clouds
H. M. S Swiftsure, Esquimalt, V. I	29.90	759.4	49	9.4	85	calm			0									
H. M. S Zephyr, N. 33° 51′, E. 131° 15′	29.87	758.7	64	17.8	83	sse.			2		0							blue sky.
H. P. M. S. Tamega, Macao, China	29.88	758.9	81.5	27.5	88	e.			3		8			0	0			d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
U. S. Naval Hospital, Yokohama, Japan	29.87	758.7	62.5	16.9	88	nw.			1		8		w.	0	0			foggy.
U. S. S. Adams, Sitka, Alaska †	29.63	752.6	41	5.0	74	ene.			1		2		ene.			sm'h		clear.
U. S. S. Hartford, N. 1° 50′. W. 145° 59′ *	29.83	757.7	80	26.7	87	ese.			4		2			0	0	sm'h	ne.	clear.
U. S. S. Monocacy, Roze Id, Corea	29.86	758.4	60	15.6	88	ssw.			2		0							misty.
U. S. S. Palos, Hong Kong, China	29.77	756.1	77	25.0	91	ene.			3		10		e.					cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.79	756.7	77	25.0	95	e.			2		8		e.	0.5	13.			cloudy.
S. S. Mexico, N. 25° 46′, W. 110° 34′†	29.99	761.7	70	21.1	87	nw.			1		0					short	nw.	clear.
S. S. Coptic, N. 40° 51′, W. 179° 57′	30.26	768.6	44.0	6.7	84	sw.			2		6		sw.	0	0	mod.	var.	fair.
S. S. Oceanic, Yokohama, Japan*	28.89	733.8	65	18.3	78	var.			3		7		sw.					fair.
S. S. City of Chester, Cape Mendocino, Cal †	30.01	762.2	49	9.4	85	nw.			4		5		nw.	0	0	long	sw.	fair.
S. S Oregon, N. 39° 44′, W. 124° 02′†	30.04	763.0	51	10.6	82	calm			0		5		nw.			sm'h		fair.
S. S. Willametta, Astoria, Oregon*†	29.89	759.2	49	9.4	93	s.			1		8		sw.	0.22	5.6			rainy.
S. S. Ancon, N. 33° 45′, W. 118° 29′†	29.06	761.0	51	10.6	93	ssw.			3		10					mod.	wsw.	raining.
S. S. G. W. Elder, Tacoma, Wash. Ter †	29.80	756.9	50	10.0	100	calm			0		10							overcast.
S. S. Australia, N. 4° 53′, W. 164° 50′	29.96	761.0	81	27.2	91	e.			5		1		e.	0	0	mod.	e.	clear.
S. S. City of New York, N. 36° 46′. W. 125° 10′†	30.01	762.2	54	12.2	74	nw.			4		10		nw.	0	0	mod.	wnw.	cloudy.
S. S. City of Pekin, N. 39° 46′, E. 151° 35′ †	29.86	758.4	49	9.4	78	w.			5		0			0	0	long	wnw.	clear.
S. E. B. Sutton, N. 28° 00′ W. 132° 00′†	30.24	768.1	64	17.8	100	n.			4		9		n.	light	light	mod	nw.	cloudy.
S. S. Granada, N. 11° 06′, W. 87° 21′†	29.92	760.0	83	28.3	79	ene.			6		2		ne.	0	0	small	e.	clear.
S. S. San Blas, N. 31° 46′, W. 119° 08′			56	13.3		wsw.			3		10		wnw.	2 h'r	2 h'r	small	nw.	cloudy.
S. S. San José, N. 13° 58′ W. 89° 11′ †	29.91	759.7	82	27.8		ne.			2		8 s		s.	0	0	long	ssw.	cloudy.
S. S. Gordon Castle, N. 18° 21′, E. 116° 41′ *	30.71	780.0	84.5	29.2	89	ne.			5–6		0		nne.					cloudy.
S. Armenia, N. 29° 15′ W. 132° 15′ *	30.12	765.0	67	19.4	79	n.			4		8		n.	¼h'r	¼h'r	mod.	nnw.	cloudy.
S. S. Benledi, N. 33° 30′, E. 136° 30′*	29.79	756.7	67	19.4	84	nw.			2–3		0			0	0	mod.	e.	hazy.
Bk. Bore, Macassar, Celebes Id*†	29.21	741.9	87	30.6		e.			1									
S. Grecian, N. 11° 05′, E. 133° 44′†	29.92	760.0	82	27.8	87	ssw.			1		7		var.	2 h'r	2 h'r	mod.	sw.	fair.
S. Titan, N. 27° 23′, W. 138° 00′*†	30.33	770.4	67	19.4	95	nne.			1		10		ne.	½h'r	½h'r	mod.	n.	overcast
Bk. Xenia, N. 21° 27′, E. 121° 05′			84	28.9		nne.			5		5		ne.	1 h'r	1 h'r	chop	ne.	fair.
S. S. Columbia, N. 45° 48′, W. 124° 05′ †	29.84	757.9	48.5	9.2	85	n.			4		10		s.			long	wnw.	raining.
U. S. S. Ranger, N. 14° 56′, W. 92° 43′	29.88	758.9	80	26.7	96	ne.			2		5			0	0	sm'h		fair.
District No. 4—South Pacific.																		
H. M. S. Espiegle, S. 18° 08′, E. 178° 26′	29.95	760.7	73	22.8	72	se.			1		6							d. clouds.
H. M. S. Kingfisher, S. 17° 32′, W. 149° 34′	29.94	760.5	75	23.9		calm			0		10							overcast
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.93	760.2	60	15.6		ene.			1							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	20.75	755.6	66	18.9	95	calm			0		1							blue sky.
U. S. S. Iroquois, Valparaiso, Chili	29.97	761.2	58	14.4	88	nne.			3		10					sm'h		cloudy.
U. S. S. Lackawanna, S. 39° 01′, W. 128° 45′ *	29.94	760.5	59	15.0	100.	nw.			5		10					long	ne.	misty.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	64	17.8	89	calm			0		10							cloudy.
U. S. S. Pensacola, Callao, Peru *	29.92	760.0	66	18.9	79	sse.	2	0.9			10		sse	0	0			misty.
U. S. S. Wachusetts, Pago Pago, Samoan Ids	29.77	756.1	75	23.9	95	calm			0		5		calm			sm'h		fair.
S. S. City of Sydney, Sydney, N. S. W*†	29.85	758.2	58	14.4	64	w.			2		2 s			0	0			clear.
S. S. Zealandia, S. 33° 50′, E 155° 30′	29.99	761.7	68	20.0	90	wsw.			4		0							clear.
S. David Crocket, S. 28° 08′, W. 103° 23′ *	30.09	764.3	67	19.4	84	e.			4		6		ese.	2 h'r	2 h'r	long	sse.	showery.
H. M. S. Lark. S. 27° 28′, E. 153° 03′	29.99	761.7	61.3	16.3		calm			0		5					sm'h		d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′ E. 44° 58′	29.75	755.6	86	30.0		ne.			1		4	e.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.65	753.1	90	32.2	73	sw.			1		1	calm						blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.98	761.5	81	27.2	91	sse.			1		2	sse.				2	sse.	d clouds.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.80	756.9	83	28.3	87	ssw.			3		0							blue sky.
H. M. S. Woodlark, off Bushire, Persia	29.70	754.4	89	31.7	80	w.			4–6		4	nw.				3	nw.	misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony *	30.02	762.5	67	19.4	79	s.			2		2		calm			sm'h		clear
U. S. S. Juniata, Kurrachee, India	29.61	752.1	84	28.9	100	wsw.			4		5		wsw.	0	0	sm'h		fair
S. S. Salerno, N. 17° 50′, E. 40° 12′ †	29.90	759.4	88	31.1		s.			1		0			0	0	sm'h	s.	clear.
Bk. Alpheus Marshall, S. 35° 01′, E. 24° 55′ *†	29.95	760.7				wsw.			5		2		calm	c	0	hv'y	sw.	hazy.
S. Annie M. Law, S. 23° 16′, E. 64° 50′ *†	30.13	765.3	69	20.6		se.			2		0		sw.	0	0	high	sw.	clear.
S. S. Burswell, Suez Canal, Egypt†	29.96	761.0	83	28.3		calm			0		0			0	0	sm'h		clear.
Bk. Ceylon, S. 30° 31′, E. 36° 50′ *†	30.21	767.3	80	26.7	82	calm			0					0	0	long	sw.	clear.
S. Dynomene, S. 36° 10′ E. 29° 30′	29.90	759.4	69	20.6	95	wsw.			6		8			mod.	mod.	high	w.	showery
S. S. Malabar, N. 6° 05′ E. 87° 54′						sw.			4		0			0	0	h'vy	sw.	clear.
Bk. Pilgrim, S. 6° 42′, E. 110° 01′ *†	29.90	759.4				se.			1					0	0			fine.
S. S. Radnorshire, N. 5° 53′, E. 94° 29′ *†	29.80	756.9				ssw.			2		3		ssw.	0	0	mod.	sw.	clear.
S. St. David, S. 21° 30′, E. 99° 50′ *†	30.00	762.0	78	25.6	91	nne.			3		7		wnw.	0	0	long	sw.	fair.
S. S. Foscolia, N. 2° 25′ E. 56° 29′ †	29.91	759.7				var.			1		2		nw.	0	0	long	s.	clear.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 18, 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.98	761.6	66.2	19.0	83	se.			1		0			0	0	clear	Malaterre.
Algiers			30.02	762.4	72.7	22.6	62	ne.			3		0			0	0	clear	Thève.
La Galle			30.01	762.3	75.2	24.0	60	nw.			1		1			0	0	very fair	Fonfrède.
Tunis			30.06	763.5															Jacques.
Saida			30.04	763.0															Pérès.
Tebessa			30.06	763.6	76.3	24.6	15	nw.			2		0			0	0	clear	St. Martin.
Geriville					84.6	29.2	17	wnw.			2		2			c	0	fair	Forfert.
Laghouat			30.08	764.0	87.1	31.6	10	s.			3		0			0	0	clear	Abraham.
Biskra			30.08	763.9	94.3	34.6	26	s.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.19	766.8	52.0	11.1	83	nw.	3	1.3			3 ks			0.326	8.3	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.92	759.9	30.01	762.2	47.9	8.8	87	w.	6	2.7			2			0.10	2.5	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.42	747.3	29.95	760.8	71.6	22.0	42	sw.			3		2			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.18	741.1	29.94	760.4	59.7	15.4	34	nw.	11.2	5.0			3			0	0		Dr. Wierzbiski
Eperies	29.01	736.9	29.87	758.6	64.4	18.0	39	nw.			4	cs	5 s			0	0		Julius Mikolik.
Gratz	28.71	729.3	29.93	760.1	68.5	20.3	58	sw.			2		0			0.177	4.5		Andreas Rospini.
Hermannstadt	28.34	719.7	29.72	754.9	64.8	18.2	73	w.			3		10			0.185	4.7		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.67	728.2	29.98	761.4	65.1	18.4	49	nw.			3	2 c	k			0	0	ltly clouny	The Staff.
Lemberg	28.86	733.1	29.84	758.0	54.1	12.3	75	w.			6		10			0	0		Dr. T. Stanecki.
Neu Schmecks	26.51	673.4	29.78	756.4	61.2	16.2	43	nw.			2		2			0	0		Dr. V. von Szontagh.
Pola	29.82	757.5	29.93	760.2	76.1	24.5	62	ese.			3		4			0	0		I. R.Hydrographic Office.
Szathmar	29.32	744.6	29.70	756.0	67.3	19.6	45	nw.			4		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.54	750.2	29.81	757.1	67.3	19.6	49	calm			0		5			0	0		Karl Stancel.
Trieste	29.84	757.8	29.93	760.3	75.2	24.0	48	sw.			1		5			0	0		Royal Academy.
Vienna	29.29	744.0	29.99	761.8	66.9	19.4	36	nw.			2		2			0	c		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.90	759.4	30.00	762.0	52.0	11.1	50	w.	24	10.7			7			0.040	1.0	d. clouds	W. Boswell.
Armagh, Observatory	30.08	764.0	30.31	769.9	58.2	14.6	53	w.	11	4.9			3					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.29	769.4	50.8	10.4	72	w.	25	11.2			7					d. clouds	John Hartnup.
Bolton, Sharples	29.71	754.6	30.24	768.1	51.8	11.0	69	wnw.	12	5.4			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.80	756.9	30.20	767.1	51.6	10.9	75	nw.			2		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	83	28.3	75	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H. C.
Cardington	30.17	766.3	30.27	768.8	60.0	15.6	68	nw.			0.6		8					overcast	John McLaren.
Chatham, School M. E.	30.11	764.8	30.24	768.1	60.4	15.8	52	nnw.			1		8					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	30.11	764.8	30.34	770.6	60.7	15.9	56	n.			3		2					blue sky	The Staff.
Fort Napier, Natal	27.56	700.0	29.78	756.4	80.0	26.7	34	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.60	751.8	29.83	757.7	86.0	30.0	72	s.			1		3					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	30.32	770.1	30.35	770.9	57	13.9	69	w.			3		2			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	69.0	20.6	90	se.			3		2					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.93	760.2	30.13	765.3	53.5	11.9	52	w.			9		9					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	30.00	763.5	30.23	767.8	60.5	15.8	44	nnw.			3		6					misty	The Staff.
Guernsey	30.00	762.0	30.29	769.4	60.0	15.6	67	nne.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.22	767.6	30.25	768.3	58.0	14.4	47	nw.	12	5.4			7					d. clouds	The Staff.
Leicester, Museum	29.98	761.5	30.24	768.1	57.0	13.9	52	nw.			2		8					overcast	J. O. Smith.
Malta, Mediterranean	29.86	758.4	29.94	760.5	69.0	20.6	91	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.10	764.5	75.0	23.9	52	ne.			4		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.75	755.6	30.28	769.1	54.4	12.4	54	nw.			5		6					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	30.04	763.0	30.27	768.8	56.5	13.6	48	nw.			4		7					misty	The Staff.
Plymouth	30.24	768.1	30.31	769.9	67.0	19.4	60	nw.			2		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys	29.72	754.9	29.82	757.4	47.5	8.6	85						10					showery	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.65	753.1	29.71	754.6	64.0	17.8	77	ne.			1		9			blank	blank	gloomy	W. H. Lyne.
Sheffield	29.94	760.5	30.22	767.6	60.8	16.0	56	nw.			4		9			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.22	767.0	30.25	768.3	55.0	12.8	65	nw.			4		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.25	768.3	51.1	10.6	65	wnw.	21	9.4			10					overcast	W. C. Carlisle.
Truro, Royal Institution	30.32	770.1	30.42	772.7	63	17.2	62	n.			6		1					d. clouds	W. Newcombe.
Valencia, Observatory	30.40	772.1	30.42	772.7	56.5	13.6	54	nnw.	16	7.2			4					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.57	751.1	29.96	761.0	68.7	20.4	56	nw.	14.9	6.7						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.13	765.3	30.17	766.3	50	10.0	61	sw.	8	3.6		0	2 s		w.	0	0	fair	H. J. Cundall, C. E
Chatham, N. B*	30.17	766.3	30.24	768.1	47	8.3	42	nw.	6	2.7		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.05	763.3	30.24	768.1	49.9	9.9	52	sw.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	30.22	767.6	30.26	768.6	44.0	6.7		w.			3	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.39	771.9	30.41	772.4	39	3.9	89	n.	10	4.5		0	0			inap.	inap.	clear	J. McWilliams.
Fort Garry, Manitoba*	28.65	727.7	29.46	748.3	51	10.6	100	e.	12	5.4			10 ks		e.	0.14	3.6	cloudy	James Stewart.
Fredericton, N. B	30.20	767.1	30.26	768.6	53.0	11.7	32	nw.	6	2.7		0	0			0	0	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	29.00	736.6	30.09	764.3	52.0	11.1	100	e.	2	0.9			10 n			0	0	cloudy	Jas. Grant.
Halifax, N. S*	30.11	764.8	30.24	768.1	51	10.6	52	n.	2	0.9		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.73	755.1	30.14	765.5	42.2	5.7	85	ne.			1	2 c	0	w.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.94	760.5	30.28	769.1	47	8.3	66	sw.	6	2.7		10 cs	0	w.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.14	765.5	30.19	766.8	56.0	13.3	57	sw.			4	4 cs	0	sw.		0	0	d. clouds	C. H. Rigby.
Montreal, Quebec*	30.07	763.8	30.28	769.1	52	11.1	55	w.	9	4.0		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.01	762.2	30.26	768.6	44.9	7.2	77	sw.			1	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.48	748.8	30.18	766.6	48	8.9	71	se.	8	3.6		5 k	2 ks	se.	ne.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.52	749.8	30.26	768.6	51.7	10.9	59	s.			1	3 c	0			inap.	inap.	fair	J. Dixon, B. A.
Port Dover, Ontario	29.43	747.5	30.13	765.3	49	9.4	78	e.	4	1.8			10 ks			0	0	cloudy	H Morgan.
Port Stanley, Ontario	29.46	748.3	30.10	764.5	54	12.2	59	e.	18	8.0		0	8 ks		sw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.93	760.2	30.29	769.4	44	6.7	60	n.	16	7.2		0	0			0	0	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	29.77	756.1	30.24	768.1	41	5.0	86	calm	0	0		8 c	sk	nw.		0	0	smoky	W. H. McIntyre.
St. Andrews, N. B	30.15	765.8	30.20	767.1	41	5.0	71	s.	4	1.8		0	0			0	0	clear	
St. John, N. B	30.06	763.5	30.23	767.8	47.0	8.3	85	sw.	2	0.9		0	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F	29.90	759.4	30.15	765.8	48	8.9	79	s.			2		10 n			0	0	overcast	J. Higgins.
St. Pierre, N. F			30.08	764.0	44.2	6.8		n.			4					0.20	5.1		The Commandant
Saugeen, Ontario*	29.39	746.5	30.10	764.5	54	12.2	47	se.	13	5.8			10 s			inap.	inap.	cloudy	
Stratford, Ontario	28.85	732.0	30.13	765.3	49.8	9.9	47	se.	11	4.9			10 s			0	0	d clouds	C. J. Macgregor, M A
Sydney, C. B*	30.15	765.8	30.21	767.3	46	7.8	83	w.	6	2.7		5 c	0	sw.		0.15	3.8	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.86	758.4	30.25	768.3	47	8.3	66	calm	0	0			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Windsor, N. S	30.09	764.3	30.18	766.6	50.0	10.0	65	calm	0	0		0	1 ks			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.08	738.6	30.16	766.1	48.1	8.9	63	e.	10	4.5			9 s			0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.17	766.3	30.23	767.8	48	8.9	74	e.	0	0		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
London, Ontario	29.21	741.9	30.11	764.8	50.7	10.4	58	se.			2		10 n			0	0	overcast	E. B. Reed.

STATIONS.	Barometer. Corrected for instruments, error and for temperature. Inch.	Barometer. Corrected for instruments, error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	29.81	757.2	29.84	757.9	66.0	18.9	80	w.	6.1	2.7		0	2 s			0	0	hazy	John Duthie.
Springbok Fontein	27.89	708.4			68	20.0	34	se.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.15	638.7																	A. Gueluy.
Tchang-kia-tchouang	29.75	755.6	29.86	758.4	77.2	25.1	32	ne.			1		2			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.95	760.7	29.98	761.4	57.0	13.9	90	sse.	12.9	5.8			10 n			0.035	0.9	hazy	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.83	757.7	29.88	758.9	54.0	12.2	45	nw.	25	11			9						Oversergent Fischer.
Fanoe	29.97	761.1	29.98	761.6	51.3	10.7	67	w.			6		6						Overloerer Lauridsen.
Godthaab, Greenland	30.04	762.9	30.08	764.0	33.4	0.8	87	ene.			2		0						S. Kleinschmidt.
Jacobshavn, Greenland	30.10	764.5	30.15	765.7	36.1	2.3		calm			0		3						
Stykkisholm, Iceland	30.03	762.7	30.07	763.8	40.3	4.6	82	e.			2		10						A. O. Thorlacius.
Thorshavn	29.74	755.5	29.77	756.1	45.5	7.5	83	nnw	16.8	7.5			8						Overloerer Bergh.
Vestervig	29.81	757.2	29.90	759.5	48.4	9.1	75	wnw.			6		7						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.62	752.3			79.9	26.6		nnw.	4.7	2.1		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.53	750.0	30.15	765.7	82.0	27.8	59	ne.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.72	754.9	30.27	768.9	68.0	20	50	sw.			3		2			0	0	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School	29.96	761.0	30.21	767.4	69.8	21.0	58	e.			2	c	0			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.95	760.6	30.02	762.6	81.3	27.4	35	nnw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.63	752.7	30.18	766.5	69.4	20.8	30	ne.			2	0	5 cn			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.97	761.1	30.22	767.7	66.9	19.4	41	nnw.			1		8		nw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.21	741.9	30.07	763.8	73.4	23.0	49	w.			1	c	0	n.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.86	758.4	30.11	764.9	79.0	26.1	56	nw.			1		0			0	0	light fog	M. Rayet, Director.
Bourges, Normal School	29.61	752.1	30.14	765.6	74.3	23.5	23	nne.			1		1		nne.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	30.06	763.6	30.31	769.8	67.6	19.8	49	nne.			2		1		nne.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.19	766.7	30.26	768.7	65.5	18.6	39	nw.			2		5		nw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.88	758.9	30.11	764.9	67.5	19.7	68	w.			1		5		nw.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.64	752.9	30.14	765.6	67.6	19.8	54	nw.			3		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.81	731.7	30.11	764.8	74.8	23.8	46	ne.			1		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.30	744.1	30.13	765.2	76.3	24.6	19	ne.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.31	744.5	30.15	765.9	66.6	19.2	27	nw.			2			nw.	nw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.52	699.1	29.94	760.5	78.4	25.8	25	calm			0		0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.88	733.6	29.95	760.8	79.9	26.6	40	sw.			3		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.31	744.4	30.05	763.2	76.3	24.6	49	nw.			2	ck	0	nw.		0	0		M. Ablard, Director.
Guéret, Normal School	28.61	726.7	30.15	765.2	73.4	23	39	ne.			3	0	0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.18	766.6	30.43	772.8	67.3	19.6	51	n.			2		5		n.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.57	751.0	30.11	764.9	73.0	22.8	20	nnw.			1	1 c	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.16	766.0	30.26	768.6	78.8	26.0	79	ne.			1		2	calm	calm	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.10	739.1	30.13	765.3	72.3	22.4	38	n.			1		5			0	0	fair	M. André, Director.
Mans, Normal School	29.92	759.9	30.22	767.6	68.5	20.3	60	ne.			1		2		ne.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.71	754.6	29.97	761.2	82.4	28.0	34	wnw.			2		3		wnw.	0	0		M. Stephan, Director.
Montlouis	25.01	635.3	29.85	758.3	64.4	18.0	29	w.	3.8	1.7			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.88	759.0	30.00	762.1	88.9	31.6	47	sw.			2		0			0	0		M. Galzin, Director.
Nancy, Normal School	29.40	746.7	30.16	766.1	66.9	19.4	43	wnw.			1	c	0			0	0		M. Hasse, Director.
Nantes, Observatory	30.08	764.0	30.24	768.1	76.5	24.7	49	n.			0-2	2 c; ck	0			0	0		M. Larocque, Director.
Perpignan, Observatory	29.95	760.6	30.05	763.3	86.5	30.3	25	nw.	9.4	4.2			1		nnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.46	545.2			46.0	7.8		s.			1		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	28.91	734.2	30.06	763.6	77.4	25.2	39	n.			1	0	0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.36	644.0			53.1	11.7	70	ne.			2	c	2 k			0.004	0.1	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.11	764.8	30.14	765.6	80.2	26.8	44	ne.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.94	760.4	30.14	765.6	75.9	24.4	33	e.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.09	713.6	30.15	765.8	79.7	26.5	41	n.			1	0	0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.20	767.0	30.24	768.2	69.1	20.6	35	n.			1		5		ne.	0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	30.06	763.6	30.22	767.7	69.3	20.7	32	nnw.			1		6		nnw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.43	747.4	30.15	765.8	85.1	29.5	34	nw.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.02	762.5	30.20	767.0	76.6	24.8	37	n.			1	1 cs		ne.	e.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.77	756.2	30.26	768.7	68.4	20.2	36	nw.			1					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.05	763.2	30.20	767.0	67.5	19.7	67	w.	21.7	9.7		2 c	0	sw.		0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.67	728.2	30.09	764.3	63.7	17.6	38	n.			6		3	n.		0	0		Prof. Jnedt.
Bamberg	29.23	742.5	30.08	764.0	70.0	21.1	47	nw.			2	0	4 ks		w.	0	0		Prof. Dr. Hoh.
Berlin	29.87	758.7	30.01	762.3	62.2	16.8	41	sw.			3		10			0	0		Meteorological Institute.
Breslau	29.51	749.5	30.04	763.0	59.5	15.3	38	w.			3		8			0	0		Royal University Obs'y
Carlsruhe	29.66	753.4	30.11	764.9	68.7	20.4	42	nw.			1		10		nw.	0	0		Albert Senz.
Cassel	29.35	745.5	30.06	763.6	60.8	16.0	42	nw.			2		10			0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.10	764.4	68.5	20.3	32	wsw.			1		10			0	0		Physical Society.
Friedrichshafen	28.69	728.6	30.07	763.7	67.3	19.6	73	sw.			2		5		w.	0	0	hazy	Wilhelm, Chief Tel.
Hamburg	29.99	761.8	30.08	764.1	50.7	10.4	80	nw.			3		10			0	0		E. Preller.
Kiel	30.00	761.9	30.01	762.3	51.4	10.8	66	nw.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.64	752.8	30.05	763.3	62.8	17.1	37	nw.			3		7			0	0		H. Leppig, Asst.
Magdeburg	29.86	758.5	30.05	763.3	58.1	14.5	49	w.			4		10		wnw.	0	0		Dr. Assmann.
Memel	29.91	759.8	29.96	761.0	49.1	9.5	67	wnw.			3	5 cs	0						Issermann.
Munich	28.26	717.8	30.13	765.2	64.9	18.3	33	nw.			4		3		sw.	0	0		Central Station.
Neufahrwasser	29.93	760.1	29.94	760.5	59.7	15.4	43	w.			2		9		w.	0.016	0.4		A. Lothes.
Neustadt, Palatinate	29.59	751.5	30.11	764.9	69.3	20.7	32	w.			3		10			0	0		Dicknether.
Stuttgart	29.17	740.8	30.04	762.9	68.0	20.0	21	n.			1		8		n.	0	0		Prof. Dr. Schoder.
Wustrow	30.00	761.9	30.02	762.6	51.3	10.7	76	wnw.			4		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.35	745.4	29.72	755.0	71.2	21.8		s.			0.5	0	6 k					thunder	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.59	751.6	29.64	752.9	86.7	30.4	82	w.	29.0	13.0			2		w.	0	0	d. clouds	
Deesa	29.12	739.5	29.56	750.8	107.7	42.1	13	w.	13.0	5.8			0			0	0	blue sky	
Bombay	29.69	754.1	29.72	755.0	86.9	30.5	69	nw.	17.0	7.6			6		wnw.	0	0	d. clouds	
Poona, Yarrowda	27.85	707.4	29.04	752.8	95.8	35.4	25	nw.	22.0	9.8			2		nw.	0	0	d. clouds	
Trichinopoly	29.37	746.0	29.64	752.8	101.0	38.3	28	calm	0	0			8		ne	0	0	d. clouds	
Belgaum	27.20	690.9	29.68	753.9	85.2	29.6	60	ene.	13.0	5.8			5		w.	0	0	d. clouds	
Lahore	28.74	730.0	29.44	747.7	107.3	41.8	16	n.	4.0	1.8			0			0	0	blue sky	
Roorkee	28.59	726.2	29.43	747.6	105.3	40.7	13	calm	0.5	0.2			0			0	0		
Agra	28.93	734.7	29.45	748.1	109.1	42.8	11	sw.	4.0	1.8			2		sw.	0	0	d. clouds	
Nagpur	28.50	723.8	29.48	748.8	107.4	41.9	16	sw.	10.0	4.5			4		w.	0	0	d. clouds	
Jubbulpore	28.22	716.8	29.50	749.3	106.1	41.2	10	nw.	4.0	1.8			1		n.	0	0	blue sky	
Lucknow	29.12	739.6	29.48	748.7	99.4	37.4	45	wnw.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.16	740.8	29.46	748.2	106.6	41.4	15	nw.	4.0	1.8			0			0.04	1.0	blue sky	
Patna	29.28	743.6	29.45	748.0	102.3	39.1	31	calm	6.8	3.0			0			0	0	blue sky	
Hazaribagh	27.54	699.5	29.46	748.4	95.5	35.3	23	n.	8.8	3.9			4			0	0	d. clouds	
Cuttack	29.50	749.2	29.58	751.2	90.1	32.3	62	wnw.					0			0	0	blue sky	
Calcutta, Alipore	29.55	750.5	29.57	751.1	87.8	31.0	73	ssw.	14.0	6.3			6		w.	ssw.	0	d. clouds	
Dhubri	29.44	747.7	29.55	750.7	78.2	25.7	90	nne.	4.0	1.8			10			ssw.	0.89	22.6	overcast
Chittagong	29.60	752.0	29.70	754.2	82.7	28.2	88	ssw	6.0	2.7			4				0	0	blue sky
Sibsagar	29.30	744.2	29.63	752.6	80.7	27.1	85	sw.	2.0	0.9			8		sw.	sw.	0.72	18.3	d. clouds
Jeypore	28.13	714.4	29.49	749.0	106.2	41.2	13	nw.	14.4	6.4			3			nw.	0	0	d. clouds

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.16	715.3	.....	.....	104.0	40.0	15	nw.	8	3.6	.....	2 c	0	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.87	758.7	78.7	25.9	82	ssw.	8.2	3.7	.....	.....	10	s.	.....	0.32	8.1	overcast	
ITALIAN.																			
Udine	29.53	750.1	29.93	760.2	78.4	25.8	43	sw.	1.8	0.8	.....	.....	4	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.43	747.4	29.93	760.2	81.7	27.6	30	ssw.	4.3	1.9	.....	.....	1	.....	.....	0	0	.....	Prof. G. V. Schiapparelli.
Padua	29.80	757.0	29.91	759.7	77.9	25.5	54	sse.	5.6	2.5	.....	.....	1	nnw.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.05	737.8	29.93	760.1	79.7	26.5	41	nnw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.80	756.9	29.99	761.7	68.9	20.5	70	sw.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.09	713.4	29.95	760.7	75.9	24.4	26	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.84	757.9	29.89	759.1	70.5	21.4	60	ne.	6.3	2.8	.....	.....	6	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.70	754.3	29.95	760.7	74.1	23.4	52	w.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.85	758.2	29.94	760.4	69.1	20.6	68	wnw.	0.7	0.3	.....	.....	2	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.73	755.2	29.91	759.6	77.0	25.0	51	w.	13.6	6.1	.....	.....	2	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.54	750.2	29.78	756.5	73.0	22.8	43	nw.	15.0	6.7	.....	.....	1	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.02	737.1	29.89	759.1	74.5	23.6	69	sse.	1.8	0.8	.....	.....	5	se.	.....	0.012	0.3	.....	Prof. D. Conti.
Cagliari	29.82	757.3	30.01	762.2	77.2	25.1	28	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.74	755.5	29.99	761.8	72.1	22.3	23	wsw.	15.4	6.9	.....	.....	0	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.85	758.1	29.89	759.2	68.7	20.4	56	nne.	3.8	1.7	.....	.....	7	ne.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.41	747.0	29.92	759.9	73.9	23.3	72	se.	0.7	0.3	.....	.....	4	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.28	566.0	.....	.....	39.9	4.4	60	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	22.32	566.8	.....	.....	47.1	8.4	43	n.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.99	761.8	30.02	762.7	53.7	12.1	88	sw.	.....	.....	2	.....	10 ck	.....	sw.	0	0	cloudy	H. Hattori.
Awomori	29.80	758.4	29.89	759.2	54.0	12.2	63	s.	9.6	4.3	.....	0	0	.....	.....	0	0	clear	K. Ogawa.
Hamamatsu	29.98	761.5	30.01	762.2	60.8	16.0	83	calm	.....	.....	0	4 cs	0	.....	.....	0	0	fair	
Kagoshima	30.02	762.4	30.03	762.7	65.0	18.3	78	n.	.....	.....	2	.....	10 s	.....	nw.	0.075	1.9	overcast	G. Miyanohaza.
Kioto	29.90	759.5	30.07	763.9	56.1	13.4	70	nnw.	4.1	1.8	.....	10 cs	0	.....	.....	0	0	cloudy	M. Tojima.
Miasaka	30.07	763.8	30.10	764.5	63.7	17.6	88	nnw.	.....	.....	2	.....	10 s	.....	w.	0.201	5.1	covered	K. Masusaki.
Miyako	29.79	756.7	29.90	759.5	56.2	13.4	56	w.	7.0	3.1	.....	0	0	.....	.....	0.067	1.7	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.83	757.7	30.03	762.7	64.3	17.9	85	calm	0	0	.....	0	0	.....	.....	0.010	0.2	misty	S. Takehayashi.
Niigata	30.02	762.5	30.05	763.3	56.3	13.5	85	sw.	9.0	4.0	.....	0	0	.....	.....	0	0	clear	M. Morita.
Nobiru	29.96	761.1	29.98	761.5	54.8	12.7	73	nw.	8.2	3.7	.....	0	0	.....	.....	0	0	clear	H. Midzushina.
Numazu	30.01	762.2	30.04	763.1	57.4	14.1	73	ene.	.....	.....	4	0	0	.....	.....	0	0	clear	R. Kaneda.
Osaka	30.04	762.9	30.05	763.3	59.8	15.4	67	n.	4.1	1.8	.....	10 cs	0	.....	.....	0	0	cloudy	H. Omura.
Tokei Obs'y, Yeddo	29.98	761.4	30.05	763.3	59.6	15.3	64	nne.	4.0	1.8	.....	1 cs	0	nw.	.....	0	0	clear	The Staff.
Wakayama	30.00	762.0	30.05	763.3	64.1	17.8	60	e.	4.1	1.8	.....	10 cs;ck	0	w.	.....	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.05	763.3	74.0	23.3	74	e.	13.0	5.8	.....	1 cs;c	2 ks;s	e.	se.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.67	601.2	29.89	759.2	68.0	20.0	59	calm	0	0	.....	1 cs	0	sw.	.....	0	0	clear	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.92	760.0	61.9	16.6	78	wuw.	2.0	0.9	.....	5 c	0	.....	.....	0	0	dense fog	Prof. M. Leal.
Mazatlan	29.67	753.6	29.93	760.3	64.5	18.1	86	nw.	11.0	4.9	.....	2 cs	0	.....	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	59	15.0	93	e.	15.3	6.8	.....	0	0	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.20	767.0	30.20	767.0	56.7	13.7	.....	wnw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Groningen	30.02	762.5	30.08	763.9	52.2	11.2	.....	e.	.....	.....	1	.....	.....	.....	.....	0.008	0.2	.....	
Helder	30.10	764.4	30.10	764.4	52.0	11.1	.....	nw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.17	766.4	30.17	766.4	55.2	12.9	71	wnw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.08	764.1	30.13	765.3	63.5	17.5	56	w.	.....	.....	4	.....	5	.....	.....	0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.80	756.8	.....	.....	80.6	27.0	84	n.	0	0	.....	.....	6	.....	.....	0	0	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.67	753.7	29.74	755.3	47.1	8.4	81	sw.	18	8	.....	.....	10	.....	.....	0.276	7.0	raining	
Brono	29.65	753.1	29.69	754.1	47.8	8.8	73	calm	.....	.....	0	.....	8	.....	.....	0.268	6.8	.....	
Christiania	29.49	749.0	29.63	752.6	57.6	14.2	29	wsw.	13	6	.....	.....	5	.....	.....	0	0	.....	
Gjessvær	29.79	756.6	29.81	757.2	42.4	5.8	.....	e.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.66	753.3	29.71	754.5	48.9	9.4	52	ne.	.....	.....	0–2	.....	1	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.84	758.0	30.00	762.0	60.4	15.8	85	ene.	16.1	7.2	.....	.....	10	.....	.....	.....	.....	raining	Dr. J. A. Sampaio.
Campo Major	29.08	738.5	30.06	763.4	71.6	22.0	71	e.	3.1	1.4	.....	.....	3	.....	.....	0.028	0.7	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.74	755.6	29.83	757.7	63.7	17.6	76	sw.	12.5	5.6	.....	.....	10	.....	.....	0.748	19.0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	757.0	30.14	765.6	60.8	16.0	78	wsw.	10.5	4.7	.....	.....	9	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.87	758.7	29.94	760.5	61.5	16.4	69	ne.	18.3	8.2	.....	.....	3	.....	.....	0.063	1.6	.....	
Saint Paul de Loando	29.65	753.2	29.85	758.2	77.9	25.5	99	w.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	
Serra da Estrella	25.41	645.5	30.15	765.9	49.6	9.8	81	ese.	14.3	6.4	.....	.....	10	.....	.....	0.213	5.4	.....	
RUSSIAN.																			
Akmollinski	28.97	735.8	30.07	763.8	41.5	5.3	45	se.	4	2	.....	3 cs	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.57	751.1	29.59	751.6	54.7	12.6	40	wnw.	18	8	.....	.....	10	.....	.....	0	0	light clouds	Capt. Sselliwerstow.
Ashurada	29.70	755.8	29.66	753.4	77.5	25.3	72	wnw.	11	5	.....	.....	9 kn	.....	.....	0	0	.....	
Astrakhan	29.70	754.3	29.61	752.2	84.0	28.9	38	se.	9	4	.....	0	3 s	.....	.....	0	0	.....	Capt. Wisganow.
Baku	29.68	753.8	29.63	752.6	71.6	22.0	71	ssw.	4	2	.....	0	5 k	.....	.....	0	0	.....	
Barnaul	29.53	750.1	30.05	753.3	33.8	1.0	50	w.	9	4	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y
Bieloserk	29.20	741.6	29.66	753.3	51.6	10.9	79	w.	7	3	.....	0	4 ks	.....	.....	0	0	.....	
Dorpat	29.55	750.6	29.79	756.6	57.6	14.2	41	nnw.	7	3	.....	0	4 k	.....	.....	blank	blank	.....	Observatory.
Ekaterinburg	28.75	730.2	29.71	754.7	42.6	5.9	79	se.	9	4	.....	.....	10	.....	.....	0.059	1.5	.....	Meteorological Obs'y.
Elisawetgrad	29.21	741.9	29.63	752.5	83.5	28.6	25	sw.	9	4	.....	0	5 kn;s	.....	.....	0.035	0.9	.....	
Irkutsk	27.82	700.7	29.38	746.2	66.0	18.9	45	sw.	.....	.....	1	.....	10	.....	.....	0	0	.....	
Kasalinsk	29.28	743.0	29.45	748.1	83.1	28.4	37	e.	4	2	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.15	740.5	29.41	747.0	65.8	18.8	66	w.	27	12	.....	.....	10	.....	.....	inap.	inap.	light rain	Observatory.
Kem	29.67	753.5	29.72	754.5	42.8	6.0	67	ne.	9	4	.....	.....	10 ks	.....	.....	0	0	heavy cl'ds.	
Kertch	29.68	753.9	29.71	754.5	65.3	18.5	79	calm	0	0	.....	0	7 n	.....	.....	0	0	.....	Lagorio & Sastyrev.
Kieff	29.00	736.7	29.61	752.2	64.4	18.0	72	w.	9	4	.....	.....	10ks;n	.....	.....	0.130	3.3	thnd'r storm	Observatory.
Koslov	29.08	738.5	29.58	751.3	80.8	27.1	35	nw.	7	3	.....	0	7 k	.....	.....	0	0	.....	
Libau	29.87	758.7	29.89	759.3	48.7	9.3	51	sw.	4	2	.....	.....	3	.....	.....	0	0	.....	E. Quaas.
Lugan	29.43	747.5	29.61	752.0	81.1	27.3	39	ese.	4	2	.....	.....	9	.....	.....	0.043	1.1	.....	Meteorological Obs'y.
Moscow	29.20	741.7	29.66	753.3	63.7	17.6	35	nne.	5.6	2.5	.....	0	0	.....	.....	0.122	3.1	.....	Meteorological Obs'y
Nikolaiev	29.60	751.7	29.67	753.6	82.8	28.1	40	calm	0	0	.....	0	3 k	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.72	754.9	29.81	757.1	34.9	1.6	84	calm	0	0	.....	.....	0	.....	.....	0.008	0.2	.....	Iwanow.
Pekin, China	29.62	752.3	29.76	755.9	75.6	24.2	48	calm	0	0	.....	0	3 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.41	747.0	29.73	755.2	93.9	34.4	12	calm	0	0	.....	0	5 k	.....	.....	0	0	.....	
Petrozavodsk	29.45	748.1	29.05	753.0	55.8	13.2	53	ne.	7	3	.....	7 ck	0	.....	.....	0.020	0.5	.....	Dr. Bergmann.
Pinsk	29.19	741.4	29.67	753.7	57.2	14.0	88	wsw.	18	8	.....	.....	9 n	.....	.....	0.929	23.6	.....	
Poti	29.72	754.8	29.75	755.6	66.2	19.0	98	w.	4	2	.....	0	6 ks	.....	.....	0	0	.....	
St. Petersburg	29.73	755.1	29.75	755.7	50.0	10.5	56	wnw.	16	7	.....	8 ck	0	.....	.....	0.256	6.5	.....	Central Physical Obs'y.
Samarkand	27.47	696.5	29.76	755.9	78.6	25.9	53	calm	0	0	.....	0	5 n	.....	.....	0	0	.....	
Semipalatinsk	29.48	748.7	30.15	765.9	39.4	4.1	35	nw.	13	6	.....	.....	4	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.50	749.2	29.72	754.9	61.5	16.4	80	w.	16	7	.....	.....	9 n	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.23	742.5	29.68	753.9	59.4	15.2	75	ne.	18	8			10			0.024	0.6		
Tashkend	28.16	715.3	29.71	754.7	85.3	29.6	18	n.	7	3			9 ks			0	0	light clouds	Terch, A. M.
Tiflis	28.30	718.7	29.65	753.1	71.4	21.9	45	nw.	13	6		0	6 n			0	0		Physical Observatory.
Vernoe	27.36	694.9	29.76	755.8	70.9	21.6	38	calm	0	0		0	6 n			0	0		
Viatka	28.52	724.4	29.13	739.9	54.3	12.4	71	w.	9	4			10			0.177	4.5		
Warsaw	29.50	749.2	29.92	760.0	52.5	11.4	48	nnw.	16	7		0	3 k			blank	blank	hvy. clouds	Astronomical Obs'y.
Yeniseisk	29.63	752.7	29.93	760.2	32.5	0.3	52	w.	7	3			5			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.06	763.5	48	8.9	92	w.			7		10			0.4	10.	raining	J. Youngclause
North Unst			29.75	755.6				wsw.			6	0	8						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.03	762.8	30.13	765.4	77.5	25.3	37	sw.	2.7	1.2		0	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.14	765.6	30.20	767.1	74.8	23.8	54	n.	2.7	1.2		3	0	n.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.25	692.2	30.11	764.9	73.4	23.0	31	e.	4.5	2.0		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.91	709.0	30.06	763.4	76.5	24.7	36	ne.	6.3	2.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.97	761.2	30.12	765.0	76.3	24.6	49	ene.	5.4	2.4		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.34	745.2	30.20	767.0	67.1	19.5	66	n.	6.0	2.7		4 kn	4 kn	n.	n.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.19	741.4	30.06	763.6	67.1	19.5	72	ne.	3.1	1.4			10			0.260	6.6	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.97	761.3	30.04	762.9	77.3	25.2	74	e.	6.7	3.0		0	2 k		ne.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.7	29.85	758.2	79.2	26.2	94	se.	14.8	6.6		3 ck	3 ks	sse.	sse.	0.039	1.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.4	30.08	763.9	72.1	22.3	54	e.	24.6	11.0		1	1	s.	e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.83	757.7	29.92	760.0	79.5	26.4	89	calm	0	0			10kn		sw.	0.217	5.5	overcast	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.71	754 7	29.75	755.7	52.2	11.2	59	ne.			4		8			0	0		
Umea	29.69	754.0	29.74	755.3	51.4	11.0	42	sw.			2		8			0	0		
Hernosand	29.71	754.6	29.76	755.9	54.3	12.4	42	e.			2		7			0	0		
Stockholm	29.56	750.8	29.74	755.3	59.4	15.2	34	ssw.			4		10			0	0		
Wisby	29.74	755.5	29.80	757.0	50.0	10.0	74	w.			4		7			0	0		
Sub-series.																			
Upsala	29.57	751.1	29.66	753.3	59.0	15.0	35	ssw.	12.5	5.6			9	w.	sw.	0.106	2.7		S. G. Fineman.
SWISS.																			
Geneva	28.69	728.8	30.08	763.9	70.2	21.2	51	w.			3		4			0	0		The Observatory.
TURKISH.																			
Constantinople			29.71	754.7	62.8	17.1	74	n.	9	4.0			10		n.	0	0		The Observatory.
Valona			29.92	759.9	75.0	23.9		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	756.9	73.9	23.3	60	sw.			2	c	5 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.73	678.9			55	12.8	93						10 n		sw.	1.	25.	raining	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.22	767.6	30.30	769.6	56	13.3	51	n.	3	1.3		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.39	746.5	30.05	763.3	44	6.7	83	se.	14	6.3			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.90	632.4	29.72	754.9	42	5.6	86	ne.	2	0.9			10 s			0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.02	686.3	29.86	758.4	51	10.6	66	sw.	17	7.6		8 k	0	nw.		0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.04	737.6	30.21	767.3	61.5	16.4	66	e.	8	3.6		3 cs	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.26	768.6	30.27	768.8	58	14.4	58	nw.	7	3.1		6 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.07	763.8	30.26	768.6	64	17.8	73	s.	1	0.4			10 s			0	0	cloudy	John Healy.
Baltimore, Maryland	30.28	769.1	30.33	770.4	56	13.3	51	nw.	1	0.4		2 cs	fg.	w.		0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.22	767.6	30.24	768.1	58.0	14 4	70	n.	10	4.5		2 c	0	n.		0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.72	754.9	29.74	755.4	34.2	1.2		e.	2	0.9			10 n			0.03	0.8	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	27.60	701.0	29.16	740.7	54.0	12.2	100	nw.	10	4.5			10 n			0.23	5.8	light rain	A. Pritchard.
Benton, Fort, Montana	27.11	688.6	29.90	759 4	48	8.9	66	nw.	12	5.4			10 ks		nw.	inap.	inap.	cloudy	S. Wheaton.
Billings, Montana	26.55	674.4	29.73	755.1	50	10.0	66	nw.	20	8.9			10 s			0	0	threatening.	T. Gibson.
Bismarck, Dakota	27.52	699.0	29.31	744.5	51	10.6	93	ne.	20	8.9			10 s		ne.	0.53	13.5	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.23	767.8	30.26	768.6	52	11.1	72	nw.	2	0.9		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.34	694.4	30.18	766.6	37	2.8	85	nw.	4	1.8		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.11	764.8	30.27	768.8	56.0	13.3	62	nw.	9	4.0		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.72	754.9	29.76	755.9	81.0	27.2	79	s.	16	7.2		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.46	748.3	30.20	767.1	53.3	11.8	58	ne.	4	1.8			10s;sk		sw.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota																			F. A. Mellen.
Burlington, Vermont	30.00	762.0	30.29	769.4	63.0	17.2	35	s.	6	2.7		0	0			0	0	clear	D. N. Farnell.
Cairo, Illinois	29.51	749.5	29.91	759.7	73.8	23.2	67	sw.	20	8.9		2 k	0	sw.		0.01	0.3	clear	W. H. Ray.
Cape Henry, Virginia	30.28	769.1	30.30	769.6	56	13.3	51	nw.	7	3.1		2 cs	0	nw.		0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.25	768.3	30.28	769.1	55.0	12.8	83	nw.	11	4.9		3 c	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.60	751.8	30.28	769.1	46	7.8	83	nw.			2	0	0			0.13	3.3	clear	J. J. McLean.
Cedar Keys, Florida	30.16	766.1	30.18	766 6	71	21.7	66	e.	8	3.6		1 c	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.18	766.6	30.23	767.8	68.0	20.0	66	ne.	8	3.6		7 ck	0	n.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.42	747.3	30.26	768.6	60.0	15.6	60	ne.	3	1.3		10 cs	fg.			0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.36	745.7	30.17	766.3	66.0	18.9	58	se.	2	0.9		1 ck	0	w.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.61	599.7	29.48	748.8	40.9	4 9	72	nw.	32	14.3			10 n			0.74	18.8	light rain	E. McGovern.
Chicago, Illinois	29.08	738.6	29.78	756.4	61.1	16.2	80	s	12	5.4			10ks;s		sw;s	0.12	3.0	threatening.	John Laurens.
Chincoteague, Virginia	30.27	768.8	30.29	769.4	55	12.8	62	nw.	8	3.6		3 c	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.43	747.5	30.08	764.0	64.0	17.8	52	e.	4	1.8			10 n			inap.	inap.	light rain	L. Dunne.
Cleveland, Ohio	29.38	746.2	30.10	764.5	57.2	14.0	51	se.	8	3.6		9 cs	0	w.		0	0	cloudy	J. B. Newlin.
Coleman City, Texas	27.98	710.7	29.77	756.1	67	19.4	100	ne.	4	1.8		0	10 n			0.60	15.2	light rain	T. J. Kenan.
Columbus, Ohio	29.23	742.4	30.07	763.8	59	15.0	54	e.	7	3.1			9 s		se.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.83	706.9	29.73	755.1	62.0	16.7	62	w.	6	2.7		0	10 n			inap.	inap.	thund'r st'm	J. McGlone.
Davenport, Iowa	28.92	734.6	29.56	750.8	65	18.3	84	s.	20	8.9		0	3 ks		s.	0.56	14.2	clear	R. R. Martin.
Davis, Fort, Texas	25.05	636.3	29.77	756.1	57	13.9	57	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.47	723.1	30.22	767.6	43	6.1	60	sw.	7	3.1		0	0			0.03	0.8	clear	D. Moore.
Deadwood, Dakota	24.84	630.9	29.36	745.7	45	7.2	100	ne.	16	7.2			10 n			2.75	69.8	heavy rain	F. Willson.
Delaware Breakwater, Del.	30.27	768.8	30.29	769.4	54	12.2	80	nw.	11	4.9		2 c	0			0	0	clear	T. S. Townsend.
Denver, Colorado	24.31	617.5	29.47	748.5	53.0	11.7	48	sw.	5	2.2			10 s			0.35	8.9	cloudy	F. M. Neal.
Des Moines, Iowa	28.44	722.4	29.33	745.0	64	17.8	73	sw.	22	9.8		0	0			0.63	16.0	clear	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.04	763.0	57.0	13.9	64	e.	8	3.6		0	0			0.03	0.8	clear	E. R. Brace.
Dodge City, Kansas	26.94	684.3	29.49	749.0	50	10.0	86	calm	0	0		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	28.82	732.0	29.52	749.8	62.5	16.9	81	se.	15	6.7		0	8 ks		s.	0.25	6.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.73	729.7	29.48	748.8	46	7.8	93	ne.	24	10.7			10 s		ne.	0.70	17.8	cloudy	N. B. Conger.
Eagle Pass, Texas	28.95	735.3	29.75	755.6	76.0	24.4	74	s.	1	0.4		0	4 s		s.	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.23	640.8	29.91	759.7	37	2.8	66	sw.	20	8.9		0	4 s			0	0	fair	H. R. Boynton.
Eastport, Maine	30.15	765.8	30.22	767.6	50.0	10.0	64	w.	4	1.8		0	hz.			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	26.88	682.7	29.58	751.3	56	13.3	53	sw.	16	7.2		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.19	665.2	29.83	757.7	50.0	10.0	59	w.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.43	747.5	30.15	765.8	57	13.9	51	se.	12	5.4			10 s		w.	0	0	cloudy	O. A. Shaw.
Escanaba, Michigan	29.15	740.4	29.81	757.2	48.0	8.9	81	se.	14	6.3			10 s		se.	0.15	3.8	cloudy	George Heathcote.
Galveston, Texas	29.85	758.2	29.89	759.2	78	25.6	88	se.	20	8.9		2 cs	5 ks		s.	0	0	fair	E. O'C. Macnerney.
Grand Haven, Michigan	29.19	741.4	29.85	758.2	55.0	12.8	74	e.	15	6.7			10 s		se.	0.23	5.8	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.16	639.1	29.77	756.1	45	7.2	39	calm	0	0		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	30.23	767.8	30.25	768.3	56	13.3	62	ne.	18	8.0		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.70	652.8	29.87	758.7	44	6.7	68	sw.	8	3.6		4 ck	0	calm		0	0	fair	N. C. Smith.
Huron, Dakota	27.71	703.8	29.06	738.1	54.1	12.3	90	sw.	7	3.1			10 n			1.05	26.7	light rain	S. W. Glenn.
Indianapolis, Indiana	29.12	739.6	29.91	759.7	59.2	15.1	81	se.	13	5.8		1 ck	7 s	w.	sw.	0.59	15.0	clearing	C. F. R. Wappenhans.
Indianola, Texas	29.79	756.7	29.82	757.4	78.5	25.8	86	s.	23	10.3		2 cs	3 k	sw.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.62	726 9	29.77	756.1	69	20.6	50	sw.	2	0.9		2 k	5 s	s.	s.	0.09	2.3	fair	D. J. Carr.
Jacksonville Florida	30.17	766.3	30.21	767.3	74	3.23	64	ne.	2	0.9		5 cs	0	w.		0	0	fair	J. W. Smith.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.00	685.8	29.45	748.0	57	13.9	60	n.	32	14.3		0	5 ks			inap.	inap.	fair	W. B. Lamar.
Keokuk, Iowa	28.91	734.3	29.56	750.8	69.0	20.6	78	s.	22	9.8		5 k	0	s.		1.04	26.4	fair	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	76.3	24.6	74	ne.	18	8.0		0	1 k;hz		ne.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.27	768.8	30.29	769.4	55	12.8	62	ne.	19	8.5		hz.	1 s			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.14	740.1	30.16	766.1	60.6	15.9	87	ne.	1	0.4		10 cs	0	nw.		0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.68	728.5	29.44	747.8	63	17.2	78	s.	20	8.9			10 s		s.	0.26	6.6	cloudy	S. C. Emery.
Leavenworth, Kansas	28.64	727.4	29.52	749.8	64	17.8	63	sw.	14	6.3		0	0			0.67	17.0	clear	A. W. Browne.
Lewiston, Idaho	29.37	746.0	30.21	767.3	40.8	4.9	83	e.	2	0.9		0	0			0.02	0.5	clear	W. Bell.
Little Rock, Arkansas	29.52	749.8	29.84	757.9	73	22.8	90	s.	10	4.5		0	7 s		s.	0.63	16.0	fair	W. U. Simons.
Los Angeles, California	29.68	753.9	30.08	764.0	50	10.0	77	ne.	8	3.6		0	0			0.13	3.3	clear	T. S. Collins.
Louisville, Kentucky	29.42	747.3	29.97	761.2	67	19.4	63	s.	12	5.4			10 s		sw.	inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.60	751.8	30.28	769.1	55	12.8	74	se.	1	0.4		0	fg.			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.32	744.7	29.97	761.2	45.0	7.2	83	e.	16	7.2			10 n			0.02	0.5	light rain	D. B. Notson.
Macon, Fort, North Carolina	30.25	768.3	30.26	768.6	56.0	13.3	69	n.	15	6.7		0	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.41	645.4	29.82	757.4	43	6.1	53	nw.	26	11.6		10 k	0	nw.		0	0	cloudy	E. Burke.
Marquette, Michigan	29.07	738.4	29.79	756.7	49	9.4	86	se.	15	6.7			10 n			0.13	3.3	light rain	E. H. Thompson.
Memphis, Tennessee	29.59	751.6	29.92	760.0	73	22.8	76	se.	12	5.4		0	8 s		s.	0.01	0.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.01	736.8	29.75	755.6	49	9.4	86	se.	22	9.8			10 s		se.	0.12	3.0	cloudy	W. Line.
Missoula, Fort, Montana	26.81	681.0	30.11	764.8	39	3.9	65	s.	4	1.8		6 k	0	e.		0.12	3.0	fair	J. H. Young.
Mobile, Alabama	30.05	763.3	30.09	764.3	73.8	23.2	78	se.	6	2.7		4 ck	1 k	sw.	s.	0	0	fair	C. A. Read.
Montgomery, Alabama	29.88	758.9	30.11	764.8	69.3	20.7	70	se.	7	3.1		0	3 k		w	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.19	716.0	29.17	740.9	50	10.0	100	e.	28	12.5			10 s		se.	1.70	43.2	cloudy	H. Bessaut.
Mt. Washington, N. H.	24.03	610.4	30.21	767.3	33.0	0.6	65	nw.	28	12.5		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.45	748.0	30.02	762.5	71.0	21.7	53	s.	12	5.4		4 ck	0	sw.		inap.	inap.	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.16	766.1	30.28	769.1	55	12.8	52	ne.	7	3.1		0	hz.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.24	768.1	30.29	769.4	60	15.6	44	ne.	4	1.8		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.04	763.0	74.3	23.5	82	s.	8	3.6		0	3 k		s.	0	0	clear	H. C. Smyth.
New York, New York	30.13	765.3	30.31	769.9	57	13.9	64	calm	0	0		0	fg.			0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.29	769.4	30.32	770.1	58	14.4	70	nw.	5	2.2		3 c	0	nw.		0	0	clear	Wm. Davis.
North Platte, Nebraska	26.37	669.8	29.24	742.7	51.6	10.9	78	w.	36	16.1			10 s			0.51	13.0	cloudy	E. F. Brady.
Olympia, Washington T'y.	30.21	767.3	30.25	768.3	42.0	5.6	82	s.	1	0.4			10 s			0.42	10.7	cloudy	J. Dascomb.
Omaha, Nebraska	28.11	714.0	29.27	743.4	60.5	15.8	71	sw.	23	10.3		0	0			0.39	9.9	clear	A. Pollak.
Ooglaamie, Alaska	29.70	754.4	29.72	754.9	21.0	— 6.1	100	sw.	15	6.7			10 s			inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.94	760.5	30.26	768.6	52.0	11.1	66	se.	9	4.0		10 cs	0			0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.30	744.2	29.85	758.2	77.0	25.0	82	s.	18	8.0			10 s		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	75.7	24.3	70	se.	15	6.7		3 ck	2 k	w.	se.	0	0	fair	M. McGauran.
Philadelphia, Pa.	30.20	767.1	30.30	769.6	50.5	13.6	77	nw.	6	2.7		6 cs	0	nw.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.48	444.0	29.54	750.3	11	—11.7	87	w	15	6.7		0	3 s		w.	0.13	3.3	clear	H. Hall.
Pioche, Nevada	23.92	607.6	29.84	757.9	34.0	1.1	81	n.	5	2.2		10 cs	0			0.01	0.3	cloudy	F. R. Day.
Pittsburg, Pennsylvania	29.38	746.2	30.18	766.6	53.5	11.9	36	ne.	2	0.9		0	10 s			0	0	cloudy	W. A. Reid.
Poplar River, Montana	27.52	699.0	29.64	752.8				n.			6		0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.40	746.7	30.08	764.0	53.9	12.2	67	se.	6	2.7		0	10 s			0	0	cloudy	M. H. Perry
Portland, Maine	30.19	766.8	30.24	768.1	55.0	12.8	62	nw.	3	1.3			hz.			0	0	clear	W. W. Eichelberger
Portland, Oregon	30.17	766.3	30.24	768.1	45.5	7.5	76	s.	3	1.3		0	10 s		s.	0.32	8.1	cloudy	M. L. Hearne.
Portsmouth, N. C.					58	14.4	80	ne.	23	10.3		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.67	626.6	29.77	756.1	39.0	3.9	92	calm	0	0		0	0			0.02	0.5	clear	Jas Cassidy.
Provincetown, Mass.	30.22	767.6	30.25	768.3	56	13.3	51	n	4	1.8		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	71	21.7	64	ne.	8	3.6		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.88	758.9	30.23	767.8	45	7.2	76	n.	8	3.6		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.58	751.3	30.24	768.1	51	10.6	72	sw.	4	1.8		7c;cs;ck	sk.	nw.		0	0	fair	E. W. McGann.
Roseburg, Oregon	29.76	755.9	30.31	769.9	44.5	6.9	86	calm	0				10 s		w.	0.12	2.0	threatening.	J. J. Nanry.
Sacramento, California	30.12	765.0	30.20	767.1	51.5	10.8	72	nw.	10	4.5		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.16	740.7	29.75	755.6	69.2	20.7	97	s.	25	11.2		1 cs	1 k	s.	s.	inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.77	756.1	29.80	756.9	28	— 2.2	100	nw.	8	3.6			10 n			inap.	inap.	light snow.	A. P. Leavitt.
St. Paul, Minnesota	28.42	721.9	29.26	743.2	61.0	16.1	84	s.	31	13.9		4 k	6 ks	n.	s.	0.10	4.1	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.52	724.4	29.38	756.2	51	10.6	93	ne.	5	2.2			10 s		ne.	0.33	8.4	cloudy	C. B. Dilley
Salt Lake City, Utah	25.47	646.9	29.79	756.7	42	5.6	59	calm	0	0		0	5 s			0	0	fair	J. Craig.
San Antonio, Texas	29.09	738.9	29.79	756.7	75	23.9	85	se.	5	2.2		0	0			0	0	clear	J. H. Davis.
San Diego, California	29.99	761.7	30.06	763.5	53.2	11.8	80	e.	5	2.2			10 s			0.29	7.4	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.20	768.6	30.29	769.4	53.0	11.7	86	nw.	7	3.1		3 k	0	nw.		0	0	clear	B. A. Blundon.
Sanford, Florida	30.11	764.8			70.5	21.4	66	ne.	0	2.7		4 k	0	ne.		0	0	fair	J. B. Marbury.
San Francisco, California	30.16	766.1	30.22	767.6	50	10.0	74	nw.	0	2.7		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.05	585.5	29.66	753.4	35	1.7	72	s.	4	1.8		5 k	0	nw.		0.01	0.3	fair	H. U. Jones.
Savannah, Georgia	30.15	765.8	30.24	768.1	71	21.7	66	se.	2	0.9		2 c	0	nw.		0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.22	666.0	29.82	757.4	44	6.7	63	sw.	24	10.7		9 k	0	w.		0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.62	752.3	29.86	758.4	77.0	25.0	82	s.	8	3.6			10 ks		s.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.51	724.1	29.73	755.1	54.5	12.5	76	s.	8	3.6		0	0			0.08	2.0	clear	W. M. Mattingly.
Sitka, Alaska	29.72	754.9	29.78	756.4	46.5	8.1	68	e.	10	4.5		0	4 k		e.	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.28	743.7	29.75	755.6	75.2	24.0	82	s.	10	4.5		0	0			0.79	20.1	clear	J. B. Campbell.
Smithville North Carolina	30.24	768.1	30.28	769.1	59	15.0	54	ne.	9	4.0		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.15	715.0	30.20	767.1	39.2	4.0	82	se.	4	1.8		0	2 s			0.03	0.8	clear	John F. Hemenway.
Springfield, Illinois	29.04	737.6	29.71	754.6	65.5	18.6	81	s.	22	9.8			1 s		sw.	0.15	3.8	clear	T. B. Jennings.
Springfield, Missouri	28.27	718.0	29.69	754.1	71	21.7	84	s.	18	8.0		3 k	0	s.		0.33	8.4	clear	J. H. Bryce.
Starkville, Miss.	29.59	751.6	30.06	763.5	66	18.9	78	s.	14	6.3		0	4 s		s.	0	0	fair	C. Dill.
Stevenson, Fort, Dakota	27.53	699.2	29.36	745.7	51	10.0	100	ne.	14	6.3			10 n		ne.	0.25	6.3	light rain	A. Schneider.
Stockton, Fort, Texas	26.84	681.7	29.84	757.9	49	9.4	86	s.	1	0.4		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	30.23	767.8	30.28	769.1	52.0	11.1	72	nw.	0	2.7		0	0			0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	17.18	690.4	29.85	758.2	48	8.9	86	sw.			1	3 ck	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.33	745.0	30.01	762.2	59	15.0	54	se.	0	2.7		8 cs	0	w.		0	0	threatening.	A. Buell.
Tucson, Arizona	27.49	698.2	29.83	757.7	47	8.3	77	calm	0	0		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.95	760.7	29.97	761.2	36	2.2	69	sw.	0	2.7		0	1 s			0.02	0.5	clear	Samuel Applegate.
Verde, Fort, Arizona					50	10.0	48	sw.			1	3 ck	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.75	755.6	30.00	762.0	72.0	22.2	84	se.	10	4.5		1 ck	0	se.		0	0	clear	James Kenealy.
Visalia, California	29.76	755.9	30.13	765.3	46.6	8.1	85	nw.	2	0.9		1 cs	0			0.02	0.5	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.20	614.7	29.68	753.9	49.0	9.4	48	nw.	10	7.2			10 s			0	0	cloudy	T. M. Ambler.
Washington, D. C.	30.21	767.3	30.32	770.1	54.3	12.4	70	w.	1	0.4		2 ck	0	nw.		0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.61	650.5	29.46	748.3	50.5	10.3	36	sw.	15	6.7		0	0			0.02	0.5	clear	F. H. Brandenburg.
Williamsport, Pa.	29.70	754.4	30.30	769.6	52	11.1	66	calm	0	0		0	fg.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.23	767.8	30.28	769.1	59	15.0	48	ne.	7	3.1		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.71	653.0	30.00	763.5	35	1.7	72	calm	0	0		0	0			0	0	clear	J. Grover.
Yankton, Dakota	27.84	707.1	29.12	739.6	54	12.2	80	w.	10	4.5		5 ck	0			1.71	43.4	fair	J. H. Attfield.
Yuma, Arizona	29.78	756.4	29.93	760.2	54.6	12.6	66	nw.	4	1.8		0	hz.			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			57.5	14.2	80	calm	0	0			9ks;s		n.	0.01	0.3	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			29.96	761.0			72	calm	0	0		7 cs	0			0.17	4.3	fair	Robert Johnston.
Paramaribo, S. A.	29.96	761.0	29.97	761.2	79	26.1	87	se.			2		10 n		e.	0.450	11.4	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.95	760.7	76	24.4	94	calm			0		10 ks		calm	0.92	23.4	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79	26.1	90	nne.				10 cs			ne.	0	0		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
Santiago de Cuba, W. I.	29.94	760.5	29.96	761.0	78	25.6	82	nw.	4	1.8		0	1 s		ne.	0	0		R. Mason.
York Factory, B. A.	30.00	762.0	30.06	763.5	40.5	4.7	96	w.	6	2.7		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 37° 09′, E. 16° 31′	29.90	759.4	79	26.1	51	nnw.			1		6	nnw.				2	wnw.	d. clouds.
H. M. S. Dido, Barbadoes, W. I.	29.96	761.0	83	28.3		se.			1-3		2	e.				1	sse.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.84	757.9	70	21.1	85	nnw.			1-3		8	nnw.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.13	765.3	66.5	19.2	71	nnw.			1		1	s.						blue sky.
H. M. S. Neptune, N 37° 39′, W. 9° 16′	30.05	763.3	64	17.8		n.			2		2	ene.				sm'h		d. clouds.
H. M. S, Opal, N. 42° 46′, W. 12° 32′	30.15	765.8	65	18.3	89	sse.			2		3	sse.				2	ese.	d. clouds.
H. M. S Rocket, N. 38° 32′, W. 28° 38′	30.06	763.5	60	15.6	88	n.			5		7							raining.
H. M. S. Tenedos, Halifax, N. S.	30.26	768.6	49	9.4	78	calm			0		4							d. clouds.
U. S. Navy Yard, Pensacola, Fla.	30.06	763.5	76	24.4	73	se.	18	8.0			5		se.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H*	30.18	766.6	51	10.6	72	nw.	5	2.2			0			0	0			clear.
U. S. S. Alliance, Norfolk, Va	30.32	770.1	57	13.9	69	calm			0		2			0	0			fair.
U. S. S. Colorado, New York, N. Y.	30.30	769.6	60	15.6	49	nw.	1	0.4			0							misty.
U. S. S. Franklin, Norfolk, Va.	30.30	769.6	54	12.2	87	nw.	4	1.8			2		nnw.	0	0			fair.
U. S. S. Jamestown, Newport, R. I*†	30.18	766.6	55	12.8	68	n.			1		0							clear.
U. S. S. Kearsarge, Hampton Roads, Va	30.34	770.6	59	15.0	88	wnw.			3		2							clear.
U. S. S. Lancaster, Kronstadt, Russia			54	12.2	74	nw.			2		10		ene.			sm'h		cloudy.
U. S. S. Michigan, Erie, Pa	30.12	765.0	56	13.3	63	sse.			2		10		se.					cloudy.
U. S. S. Minnesota. New York, N. Y.	30.31	769.9	50	13.3	75	calm			0		2		sw.					clear.
U. S. S. New Hampshire, Newport, R. I.	30.23	767.8	54	12.2	74	n.			2		0					sm'h		clear.
U. S. S. Portsmouth, Newport, R. I.	30.33	770.4	52	11.1	100	n.			2		0							clear.
U. S. S. Powhatan, Cartagena, U. S. C	29.84	757.9	83	28.3	91	n.			2		8		n.					cloudy.
U. S. S. Quinnebaug, Grand Bassa, West Africa	29.93	760.2	82	27.8	87	wsw.			1		8		sw.			sm'h	sw.	fair.
U. S. S. Saratoga, N. 38° 08′, W. 74° 28′	30.31	769.9	53	11.7	86	nw.			3		2		nw.	0	0	sm'h	nw.	fair.
U. S. S. St. Louis, League Island, Pa	30.27	768.8	54	12.2	67	wnw.	2.2	1.0			8		nw.	0	0			fair
U. S. S. Swatara, Progreso, Yucatan†	29.94	760.5	77	25.0	91	e.			5		2		e.	0	0	long	e.	fair.
U. S. S. Tennessee, Fort Monroe, Va.	30.26	768.6	70	21.1	48	nne.	3	1.3			2			0	0			clear.
U. S. S. Vandalia, Hampton roads, Va	30.30	769.6	58	14.4	88	nw.			1		5		nw.					fair.
U. S. S. Wabash, Boston, Mass.	30.25	768.3	56	13.3	63	nw.	2	0.9			0			0	0			clear.
U. S. S. Vantic, Fortress Monroe, Va	30.29	769.4	56	13.3	87	nnw.			2		2							clear.
Commewyne, N. 42° 51′, W. 32° 57′	30.34	770.6	58.5	14.7	82	ne.			4		9							d. clouds.
S. S. Illinois, Liverpool, Eng*	30.25	768.3	52	11.1		nw.			5		6		nw.					hazy.
S. S. Lord Gough, N. 51° 17′, W. 15° 28′	30.45	773.4	53	11.7		nne.			3		2		nne.	0	0	sm'h		clear.
S. S. Ohio, N 43° 47′, W. 41° 34′†	30.40	772.1	53	11.7	93	w.			3		0			0	0	sm'h	w.	clear.
S. S. Pennsylvanian, N. 41° 58′, W. 45° 10′†	30.40	772.1	68	20.0		sse			2		8?		e.			sm'h	e.	clear?
S. S. Circassian, Quebec, Canada	30.32	770.1	45	7.2	76	ne.			6		2		ne.	0	0			d. clouds.
S. S. Grecian, N. 48° 00′, W. 49° 15′	30.12	765.0	40	4.4	91	ssw.			3		10		ssw.	1 h'r	1 h'r	light	sw.	dense fog.
S. S. Polynesian, Montreal, Canada	30.30	769.6	61	16.1		sw.			1		1		calm	0	0			clear.
S. S. Manitoban, Quebec, Canada			48	8.9	70	wnw.			3		2		wsw.	0	0	sm'h	w.	clear.
S. S. Scandinavian, N. 46° 22′, W. 53° 40′*	29.96	761.0	40	4.4		sw.			3		10		sw.	4 h'r	4 h'r	1	sw.	misty.
S. S. Sardinian, N. 48° 15′, W. 36° 08′	30.38	771.6	61	16.1		nw.			1		fg.			0	0	sm'h		foggy.
S. S. Alvo, N. 38° 32′, W. 74° 10′			49	9.4		n.			4	3 c	0		calm	0	0	sll't	n	hazy.
S. S. Alene, N. 38° 37′, W. 74° 05′ †	30.21	767.3	51	10.6		nnw.			3		0			0	0	sm'h		clear.
S. S. Ailsa, N. 17° 51′ W. 70° 26′†	29.87	758.7	78	25.6		nw.			2		0							fine.
S. S. Anchoria, N. 43° 17′, W. 49° 03′ †	30.27	768.8				s.			3		fg			shr's	shr's	sm'h		foggy.
S. S. Assyria, N. 40° 24′, W. 66° 07′	30.06	763.5	50	10.0		nne.			5		2		nne.	0	0	mod.	nne.	clear.
S. S. Bolivia, Glasgow, Scotland			55	12.8		wsw.			3		8							
S. S. Dorian, New York, N. Y	30.31	769.9																
S. S. Furnessia, N. 40° 40′ W. 59° 25′†	30.04	763.0	68	20.0	90	nnw.			6		10		nnw.	5 h'r	5 h'r	con		hazy.
S. S. Elysia, N. 40° 42′, W. 70° 40′	30.20	767.1	48.5	9.2	89	nnw.			2		0			0	0	sm'h		clear.
S. S. Llandaff City, N. 41° 20′, W. 64° 24′†	30.04	763.0	44	6.7		nne.			4		3		ne.	0	0	mod.	ne.	clear.
S. S. Bothnia, N. 44° 40′ W. 43° 21′	30.34	770.6	66	18.9	94	sw.			3		3		sw.	0	0		sw.	clear.
S. S. Scythia, N. 40° 35′, W. 62° 23′	30.02	762.5	54	12.2	87	ne.			4		7		e.	5 h'r	5 h'r	mod.	ne.	cloudy.
S. S. Canada, N. 40° 22′. W. 65° 27′	30.14	765.5	51.8	11		ne.			6	ck	0		ne.			r'gh	nne.	covered.
S. S. France, N. 43° 25′, W. 41° 44′†	30.34	770.7	64.4	18		wsw.			1		0			0	0	sm'h	wsw.	
S. S. Arizona, N. 42° 20′, W. 50° 40′	30.24	768.1	52	11.1		sse.			2		8		sw.	0	0	mod.	sw.	foggy.
S. S. Wyoming, Liverpool. Eng	30.32	770.1	48	8.9		n.			4		4		nw.	0	0	sm'h		fair.
S. S. Bohemia, Hamburg, Germany						wnw.			3		9		nw.	0	0			cloudy.
S. S. Gellert, N. 49° 29′, W. 21° 00′	30.47	773.9	55	12.8	81	e.			4		6		ene.	0	0	mod.	ene.	fair.
S. S. Rugia, N. 45° 21′, W. 35° 11′	30.47	773.9	62	16.7		nne.			5		8		n.	0	0	sm'h	ne.	hazy.
S. S. Silesia, N. 30° 15′, W. 69° 58′	29.94	760.5	65.5	18.6		ne.			6		4		wsw.	0	0	6	nw.	fair.
S. S. Westphalia, N. 40° 30′, W. 73° 05′	30.41	772.4	53	11.7	93	w.			2-3		0			0	0	sm'h		clear.
S. S. Wieland, N. 43° 22′, W. 41° 28′	30.51	774.9				wsw.			2-3				wsw.	0	0	sm'h	wsw.	foggy.
S. S. Mentmore, N. 51° 02′, W. 11° 37′						ne.			4		8		e.	0	0	mod.	ne.	gloomy.
S. S. Bulgarian, N. 48° 18′, W. 37° 06′	30.50	774.7				wnw.			1		fg.		wnw.	0	0			light fog.
S. S. Colorado, New York, N. Y †	30.30	769.6	53	11.7		nw.			2		0			0	0			clear.
S. S. Rio Grande, N. 39° —′, W. 74° —′*†	30.40	772.1	57	13.9		n.			1		1		n.	0	0	sm'h	e.	clear.
S. S, San Marcos, N. 25° 11′, W. 84° 00′	29.90	759.4	78	25.6		ene.			5		1		ene.			mod.		clear.
S. S. Chalmette, N. 25° 00′ W. 83° 37′†	30.16	766.1	77	25.0		e.			6		2		e.	0	0	mod.	e.	clear.
S. S. New York, N. 32° 40′. W. 77° 00′			70	21.1		ne.			7		2		ne.			h'vy	ne.	clear.
S. S. Lone Star, N. 35° 07′, W. 75° 20′ †	30.18	766.6	60	15.6		nne.			4		0			0	0	r'gh	nne.	clear.
S. S. Alleghany, Boston, Mass†	30.19	766.8	52	11.1		calm			0		0			0	0			clear.
S. S. Archimede, N. 37° 33′ W. 41° 20′†	30.52	775.2	70	21.1	66	nne.			3		4		ne.	0	0	sm'h	sse.	fair.
S. S. City of Washington, N. 37° 40′, W. 74° 37′ †	30.33	770.4	58	14.4		w.			2		1		nw.	0	0	sm'h		clear.
S. S. Denmark, Thames river, Eng†	30.20	767.1	64	17.8		nw.			2		2		nw.	0	0			clear.
S. S. England, N. 44° 51′, W. 38° 30′	30.56	776.2	64	17.8		sw.			3		8		sw.	0	0	sll't	ne.	cloudy.
S. S. Greece, N. 43° 29′, W. 41° 09′*	30.37	771.4	66	18.9	?	e			1				e.	0	0	sm'h		dense fog.
S. S. Helvetia, New York, N. Y	30.34	770.6	60	15.6	88	nw.			1		2		nw.	0	0			clear.
S. S. The Queen, N. 50° 48′, W. 15° 39′	30.43	772.9	61	16.1	77	ne.			3		2		ne.	0	0	mod.	var.	clear.
S. S. America, N. 47° 40′, W. 26° 29′*	30.45	773.4	58.0	14.4	88	ne			4		10		ne.	1 h'r	1 h'r	r'gh	ne.	overcast.
S. S. Braunschweig, N. 46° 24′, W. 33° 17′	30.44	773.2	62.0	16.7	80	ne.			2		10		nw.	0	0	r'gh	sw.	foggy
S. S. Elbe, N. 40° 07′, W. 60° 41′	29.98	761.5	58	14.4	94	nne.			7-8		10			0	0	r'gh	nne.	misty.
S. S. Fulda, N. 40° 48′, W. 66° 12′	30.16	766.1	47	8.3	85	n.			5		2		n.	0	0	sm'h	n.	clear.
S. S. Hohenzollern, N. 41° 20′, W. 46° 28′*	30.39	771.9	64.4	18.0		sse.			4		0			0	0	high	wsw.	clear.
S. S. Main, N. 49° 37′, W. 10° 40′	30.35	770.9	60.8	16.0		e.			4		2		e.	0	0	sm'h	e.	clear.
S. S. Neckar, N. 40° 48′, W. 66° 02′	30.23?	767.8?	45.0	7.2	?	nne.			4		0			0	0	sm'h	nne.	clear.
S. S. Oder, N. 48° 41′, W. 25° 31′	30.46	773.7	57.2	14.0		ene.			2-3		7		e.	0	0	mod.	ne.	fair.
S. S. Strassburg, N. 43° 06′, W. 38° 55′	30.48	774.2	68.0	20.0	77	calm			0		6		n.			1	ne.	clear.
S. S. Werra, N. 49° 50′, W. 8° 36′	30.35	770.9	54	12.2		nne.			2-3		5		n.	0	0	sm'h	nne.	fair.
S. S. Orinoco. N. 38° 25′, W. 71° 28′			60	15.6		n.			3		0			0	0	light	e.	clear.
S. S. Colon, N. 12° 54′, W. 78° 02′†	29.91	759.7	84	28.9		ne.			3		3		ne.	0	0	mod	ne.	clear.
S. S. Muriel, N. 32° 20′, W. 70° 08′			72	22.2		n.			6		10			0	0	h'vy	n.	threatening
S. S. City of Augusta, Savannah, Ga†	30.29	769.4				nne.			4		2		ne.	0	0			clear.
S. S. Belgenland, Antwerp, Belgium †	30.24	768.1	61	16.1	82	nw.			5		6		nw.	0	0			fair.
S. S. Rhynland, N. 40° 35′, W. 72° 00′	30.20	767.1	51	10.6	93	w.			3		0			0	0	sm'h		clear.
S. S. Pennland, N. 45° 45′ W. 34° 22′	30.46	773.7	57	13.9	87	nw.			3		6		n.	2 h'r	2 h'r	mod.	n.	foggy.
S. S. Waesland, N. 44° 44′. W. 38° 22′	30.51	774.9	60	15.6		nnw.			3		5		nw.	0	0	sm'h	n.	fair.
S. S. Rotterdam, N. 40° 57′, W. 67° 36′	30.22	767.6	50	10.0	89	nnw.			3		1		nw.	0	0	1	nnw.	clear.
S. S. Schiedam, N. 46° 48′, W. 25° 51′	30.34	770.6	60.6	15.9	87	ne.			6		8		ne.	2 h'r	2 h'r	long	ne.	cloudy.
S. S. W. A. Scholten, N. 39° 53′. W. 64° 35′	30.10	764.5	62.6	17.0	96	ne.			7		10		ne.	7 h'r	7 h'r	high	ene.	overcast.
S. S. Zaandam, N 48° 20′, W. 30° 48′	30.46	773.7	61.9	16.6	87	ssw.			1		3 n		ssw.	driz.	driz.			rain & fog.
S. S. Valencia, Puerto Cabello, Venezuela	30.05	763.3	81	27.2	91	calm			0		9		ene.	0	0			cloudy.
S. S. State of Georgia, N. 47° 08′, W. 41° 05′			61	16.1		ssw.			3		8		w.	0	0	sm'h		hazy.
S. S. State of Nevada, Glasgow, Scotland †	30.16	766.1	58	14.4		wnw.			4		10		w.	0	0			overcast.
S. S. State of Alabama, N. 44° 46′, W. 34° 53′ *	30.39	771.9	54	12.2		ne.			3		3		ne.	0	0	sm'h		clear.
S. S. Marengo, N. 42° 17′, W. 49° 34			52	11.1		s.			5		4		s.	0	0	long	ssw.	foggy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Romano, N. 47° 43′, W. 17° 05′†	30.30	769.6	53	11.7		ne.			6		7		ne.			h'vy	ne.	fair.
S. S. Lake Huron, N. 43° 42′ W. 68° 10′	30.31	769.9	46	7.8		sw.			1		0			0	0	sm'h		clear.
S. S. Lake Manitoba, Queenstown, Ireland	30.38	771.6	63	17.2		nw.			2		1			0	0	sm'h		clear.
S. S. Daniel Steinmann, N. 48° 40′, W. 26° 43′†	30.54	775.7	62	16.7		ene.			3		9		ene.	0	0	mod.	ene.	cloudy.
S. S. Planlyn, N. 41° 27′, W. 45° 20′	30.34	770.6							4		2		se.	¾ h'r	¾ h'r	sm'h	ne.	clear.
S. S. Norman, N. 39° 40′, W. 75° 04′						calm			0		0			0	0			clear.
S. S. Saxon, Philadelphia, Pa†	30.26	768.6			82	ese.			2		4		ese.	0	0			fair.
S. S. Adriatic, N. 49° 44′, W. 24° 17′			59	15.0		ene.			2		8		wnw.	0	0	sli't	ese.	cloudy.
S. S. Germanic, N. 41° 46′ W. 59° 00′			52	11.1		ne.			5		10		nne.	9 h'r	9 h'r	mod	ssw.	drizzling.
S. S. Assyrian Monarch, N. 46° —′, W. 42° 30′	30.38	771.6				wsw.			2		2					sm'h		foggy.
S. S. Antonio Lopez, N. 39° 31′, W. 28° 00′	30.10	764.5	60	15.6	85	nne.			6		10			3 h'rs	3 h'r	r'gh	ne.	misty.
Schr. Abbie H. Gheen, N. 32° 05′, W. 79° 25′†	30.22	767.6	69	20 6		nne.			3					0	0			clear.
Bg. Abbie Clifford, N. 23° 07′ W. 68° 19′†	29.99	761.7	76	24.4		nnw.			5		6		nnw.	½ hr	½ h'r	mod.	nnw.	fair.
Bk. Alpha, N. 46° 30′, W. 40° 50′*†	30.41	772.4	62	16.7		wsw.			3		10		w.	0	0	sm'h		overcast.
Bg. Alcira, Maracaybo, Venezuela	29.94	760.5	83	28.3		se.			1		8		ese.	0	0			fair.
Bk. Adelaide, N. 19° 27′, W. 42° 21′*†	30.19	766.8	76	24.4		e.			4		9		ese.			r'gh	e.	showery.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.03	762.7	84	28.9		w.			2		8		wnw.	0	0			cloudy.
Schr. Authur Burton, N. 32° 29′ N. 79° 01′*†	30.20	767.1				ne.			1		1		ne.	4 h'r	4 h'r	mod.	ne.	fine.
Bk. Achille F, N. 6° —′, W. 26° —′†	29.95	760.7	82	27.8	63	nne.			4		6		se.	4 h'r	4 h'r	mod.	ne.	
Bg. Arda, Holmes' Hole, Mass*†	30.30	769.6				calm			0		2		e.	0	0	sm'h		clear.
Bg. Annie R. Storer, N. 24° 00′ W. 71° 43′†	30.02	762.5				n.			5		4		nne.	0	0	r'gh	nw.	fair.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.89	759.2	83	28.3		ene.			2		4		ene.	2 h'r	2 h'r			fair.
Bg. Belle of the Bay, N. 29° 21′, W. 74° 23′†	30.12	765.0				n.			6		5		n.	0	0	long	n.	fair.
Bk. Champion, N. 21° 36′, W. 63° 50′			80	26.7	96	ssw.			3		8		nw.	1 h'r	1 h'r	short	wnw.	cloudy.
Bkt. C. S. Bushnell, N. 40° 08′ W. 69° 50′	30.25	768.3				n.			4		0			0	0	sm'h	ene.	fine.
S. Cornelius, N. 49° 10′, W. 7° 11′†	30.34	770.6	55.6	13.1		ene.			4		0			0	0	sm'h		clear.
Bk. Childwall, N. 32° 49′. W. 43° 53′			70	21.1		ene.			4		6		ene.	0	0	light	e.	fair.
Schr. Clotilde, N. 29° 41′, W. 73° 19′*†	30.00	762.0	70	21.1		n.			5		2		n.	0	0	long	n.	clear.
S. Criterion, off Islay Id, Scotland *†	30.15	765.8	58	14.4		wnw.			7		10		wnw.	sh'rs	sh'rs	h'vy	wnw.	drizzling.
S. David Stewart, N. 34° 38′, W. 51° 09′†	30.20	767.1				ese.			6		4		se.	0	0	cross	se.	squally.
Btk. David A. Preston, N. 26° 00′, W. 68° 50′			72	22.2		nnw.			5		8		nnw.	0	0	long	nnw	
Schr. Edith R. Seward, Montego Bay, Jamaica, W. I†	30.04	763.0	86	30.0		calm			0		2		ne.	0	0	sm'n	e.	clear.
S. E. J. Spicer, Liverpool, Eng	30.13	765.3	52	11.1		n.			6		10		n.	0	0			overcast.
Bk. E. D. Bigelow, N. 43° 30′, W. 54° 00′*†	30.05	763.3	65?	18.3?		s.			1		fg.			9 h'r	9 h'r	r'gh	sw.	dense fog.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	30.42	772.7	65	18.3	73	ssw.			1		4		nne.	0	0			clear.
Schr. F. E. McDonald, Cedar Keys, Fla†	30.13	765.3				e.			5					0	0			clear.
S. Festina Lente, Traverse Lightship, Canada	30.29	769.4	42	5.6		ne.			3		0			0	0			clear.
Bk. George Davis, N. 40° 42′, W. 48° 50′						se.			6				sse.	0	0	r'gh	ssw.	foggy.
Bk. Gronsvaer, N. 15° 18′, W. 50° 40′†	29.93	760.3	79.0	26.1		e.			4		4		ese.	0	0	long	e.	fair.
Bk. Galeon, N. 20° 49′, W. 90° 33′†	29.93	760.2	78	25.6		e.			2		0			0	0	sm'h	sse.	blue sky.
S. Hedwig, N. 40° 29′, W. 31° 21′	30.26	768.6	59.4	15.2	92	nne.			6		10		nne.	0	0	5	ne.	cloudy.
Bk. Hattie G. McFarland, Port Royal, S. C*†	30.15	765.8	69	20.6		ne.			4		3		sw.	0	0			fine.
Bk. John H. Pearson, N. 29° 40′, W. 33° 28′						ne.			5				ne.	0	0	r'gh	ne.	clear.
Schr. Isabel Alberto, Jersey City, N. J†	30.30	769.6				ne.			2		0			0	0			clear.
Bk. Cato, N. 47° 38′, W. 15° 56′*†	30.28	769.1				ne.			3		2		ne.	0	0	mod.	ne.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	30.11	764.8				calm			0		0			0	0			clear.
Schr. Jennie N. Huddell, Baltimore, Md†	30.28	769.1	63	17.2	83	calm			0		2		nw.	0	0			
Bkt. Josephine, N. 22° 49′, W. 61° 30′†	29.84	757.9	80	26.7	70	sw.			3		10			4 h'r	4 h'r	cross		cloudy.
Schr. Leonessa, Baltimore, Md						nw.			2		0			0	0			clear.
Bg. L. & W. Armstrong, N. 28° 36′, W. 70° 17′ *†	30.00	762.0				nnw.			8		3		nnw.	1 h'r	1 h'r	r'gh	nnw.	rainy.
Light-house Tender Laurel, Pensacola Bay, Fla†	30.12	765.0	75	23.9		se.			2-3		7		se.	0	0			fair.
Bg. Lillian, Georgetown, British Guiana†	29.87	758.7	82	27.8		ese.			1		6		e.	3 h'r	3 h'r			rainy.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	77	25.0		se.			1		2			0	0			clear.
Bg. Milo, N. 49° 40′, W. 5° 45′†	30.30	769.6				nne.			2-3		0					sm'h		clear.
S. S. Madrid, N. 42° 02′, E. 16° 20′†	29.96	761.0	68	20.0	79	nw.			4		0			0	0	sm'h		clear.
Schr. Minnie A. Bonsall, N. 37° 29′, W. 74° 30′†	30.27	768.8	58	14.4		nnw.			1		0			0	0	sm'h		clear.
S. Mt Washington, N. 3° 00′, W. 26° 20′ *†	30.02	762.5	84	28.9	83	sse.			4		5		sse.	2 h'r	2 h'r	mod.	var.	fair.
Bk. Matilda C. Smith, N. 38° 20′, W. 68° 35′ †	30.16	766.1				nne.			5		4		ne.	2 h'r	2 h'r	rg'h	e.	fine.
Bk. Mathais, N. 40° 26′, W. 47° 20′ *†	30.56	776.2	74	23.3		ssw.			2		1		ssw.	0	0	long	var.	fair.
Schr. Maggie Abbott, N. 33° 23′, W. 76° 40′†	30.15	765.8				nne.			7		1		ne.	0	0	cross	ne.	clear.
S. S. Mendoza, N. 14° 39′, W. 50° 13′†	30.10	764.5				e.			4				e.	0	0	sm'h	e.	clear.
Schr. Maud Briggs, N. 22° 46′, W. 57° 00′*†	29.98	761.5				s.			0		10		s.	4 h'r	4 h'r	short	sse.	overcast.
Bk. Ottawa, N. 41° 04′, W. 40° 37′*	30.32	770.1	59	15.0		sse.			3		2		sse.	3 h'r	3 h'r	sm'h	sw.	hazy.
S. S. Raleigh, N. 38° 00′, W. 74° 15′†	30.24	768.1	58	14.4		nnw.			2		0					sm'h		fine.
Bk. Rebus, N. 49° 42′, W. 3° 32′	30.28	769.1	53	11.7		nne.			2		2		ne.	rain	rain	sm'h	ene.	fair.
Bk. Rosalie, St. John, Antigua*†	29.97	761.2				sse.			2				sse.	1 h'r	1 h'r			clear.
Bk. Scud, N. 33° 12′, W. 62° 00′*†	29.68	753.9	73	22.8		sse.			6		8		sse	2 h'r	2 h'r	long	nnw.	squally.
Bk. Southern Belle, Huelva, Portugal†	29.97	761.2				se.			4		0			0	0			clear.
S. St. Francis, N. 38° 30′, W. 40° 45′†	30.66	778.7	66	18.9	74	nne.			4		6		ne.	0	0	sm'h	nw.	fair.
S. S. Strathleven, N. 35° 36′, W. 37° 31′	30.29	769.4	65.2	18.4	99	nw.			5		7		nw.	8 h'r	8 h'r	3	nnw	squally.
Bgt. Sunlight, Demerara, Brit. Guiana*†	30.09	764.3				e.			4		9		e.	1 h'r	1 h'r			raining.
Bg. Teneriffe, N. 21° 50′ W. 74° 10′*	29.87	758.7				n.			6		0							
Bk. Tuck Sing, N. 30° 33′, W. 71° 05′ *†	30.00	762.0				n.			5		2		nne.	½ h'r	½ h'r	h'vy	nne.	fair.
Bk. Usko, N. 43° 09′, W. 41° 16′			65	18.3		calm			0					3 h'r	3 h'r	long	w.	foggy.
S. Vincenzo Accame, N. 38° 14′ W. 68° 48′†	30.21	767.3	59.0	15		nne.			7		0			0	0	light	ne.	clear.
Schr. Viola Reppard, N. 40° 00′, W. 71° 49′†	30.18	766.6	61	16.1		nnw.			1		1		calm	0	0	sm'h		clear.
Bk. Winifred, N. 25° 56′, W. 65° 40′*†	30.00	762.0											nw.	sq'lls	sq'll's	h'vy	nw.	gale.
S. Wm. McGilvery, N. 4° 18′, W. 28° 00′ *†	30.00	762.0	77	25.0	91	ese.			4		1		ene.	0	0	sm'h		squally.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.08	764.0	63	17.2	98	ne.			2		6	n.						d. clouds.
H. M. S. Boadicea, Cape Town, Cape Colony	29.94	760.5	64	17.8	100	nw.			3		10							drizzling.
H. M. S. Sylvia, Montevideo, Uruguay	29.99	761.7	63.2	17.3	94	nne.			2		9	calm						d. clouds.
H. M. S. Thetis, S. 22° 14′, W. 28° 08′	30.03	762.7	71	21.7	90	ese.			4		9					3	s.	raining.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.95	760.7	64	17.8	100	ne.	9	4 0			8		nw.	0	0	sm'h		cloudy.
U. S. S Galena, Montevideo, Uruguay*	29.96	761.0	62	16.7	94	nne.			2		5		nne.			sm'h		fair.
May Hulse, S. 49° 14′, W. 44° 00′	29.91	759.7	40	4.4	91	wsw.			3									foggy.
S. S. Archimedes, S. 4° 11′, W. 35° 40′	29.88	758.9				se.			4		1		calm	0	0	light	se.	clear.
S. S. Hevelius, Buenos Ayres, La Plata †	30.02	762.5	62	16.7		n.			2		8		n.	0	0			cloudy.
S. S. Ptolemy, S. 21° 45′, W. 40° 15′	30.04	763.0	74.2	23.4	81	e.			6		9 ns		ssw.	8.25	209.6	6	ese	raining.
S. Minnie N. Gerow, S. 31° 40′ W. 20° 58′†	30.19	766.8	62	16.7		ese.			4		10		se.	0	0	long	s.	squally.
S. Paramita, S. 26° 02′, W 33° 40′†	30.15	765.8	72	22.2		se.			7		2		ese.	0	0	h'vy	se.	clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.89	759.2	62	16.7	83	ssw.			3		8	se.						raining.
H. M. S. Champion, N. 13° 00′, E. 100° 40′	29.68	753.9	82	27.8	96	s.			1		8	s.				2	sw.	d. clouds.
H. M. S. Sappho, N. 10° 30′, W. 86° 20′	29.96	761.0	82	27.8	96	n			4		5	ne.				3	nw.	d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 25′	29.97	761.2	58	14.4	82	calm			0		8							misty.
H. M. S. Magpie, N. 16° 46′, E. 118° 18′	29.76	755.9	82.0	27.8	77	se.			5		7	s.				6	se.	d. clouds.
H. M. S. Swiftsure, Esquimalt, V. I	30.18	766.6	49	9.4	85	calm			0		4							d. clouds.
H. M. S. Zephyr, N. 34° 28′ E. 133° 49′	30.04	763.0	63	17.2	83	calm			0		0							blue sky.
H. M. S. Tamega, Macao, China	29.84	757.8	83.3	28.5	79	e.			3		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.07	763.8	60.5	15.8	88	calm			0		2		w.	0	0			foggy.
U. S. S. Adams, Sitka, Alaska†	29.77	756.1	47	8.3	77	ne.			2		2					sm'h		clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
U. S. S. Hartford, N. 4° 00′, W. 146° 00′ *	29.87	758.7	80	26.7	82	ene.			4		8		e.	0	0	sm'h	ne.	cloudy.
U. S. S. Monocacy, Roze Id, Corea	29.98	761.5	62	16.7	83	calm			0		10		calm					foggy.
U. S. S. Palos, Hong Kong, China	29.73	755.1	79	25.1	86	ese.			1		5		se.					fair.
U. S. S. Richmond, Hong-Kong, China*	29.71	754.6	79	26.1	91	ene.			1					0	0			clear.
S. S. Mexico, N. 24° 21′, W. 109° 36 †	29.91	759.7	74	23.3	59	nw.			2		0					short	nw.	clear.
S. S. Coptic, N. 40° 51′, E. 173° 25′	29.77	756.1	50.0	10.0	?	w.			3		8		w.	10 h'r	10 h'r	sm'h		misty.
S. S. Oceanic, Yokohama, Japan *	29.89	759.2	65	18.3	73	var.			2		0							clear.
S. S. City of Chester, Hookton, Cal †	30.35	770.9	45	7.2	100	calm			0		10			0	0			overcast.
S. S. Oregon, San Francisco, Cal †	30.24	768.1	59	15.0	88	calm			0		0							clear.
S. S. Willametta, Astoria, Oregon*†	30.20	767.1	51	10.6	100	calm			0		6		w.	0.07	1.8			rainy.
S. S. Ancon, N. 32° 47′, W. 117° 27′ †	30.04	763.0	57	13.9	81	sse.			2		8		sw.			mod.	wsw.	cloudy.
S. S. G. W. Elder, Seattle, Wash. Ter †	30.16	766.1	48	8.9	85	s.			1		10							overcast.
S. S. State of California, Astoria, Oregon †	30.26	768.6	44	6.7	84	calm			0		8		sw.					cloudy.
S. S. Australia, N. 0° 03′, W. 166° 50′	29.91	759.7	82	27.8	91	e.			4		1		e.	0	0	sm'h		clear.
S. S. City of Pekin, N. 42° 10′, E. 157° 20′ †	29.91	759.7	46	7.8	84	nw.			4		5		nw.	0	0	long	wnw.	fair.
S. E. B. Sutton, N. 29° 00′, W. 133° 10′†	30.36	771.1	62	16.7	83	ne.			4		2		ne.	0	0	long	nw.	clear.
S. S. City of Rio de Janeiro, N. 37° 33′, W. 125° 40′†	30.29	769.4	54	12.2	80	nw.			4		2		nw.	0	0	h'vy	wnw.	clear.
S. S. Colima, N. 23° 06′, W. 109° 01′ †	29.95	760.7	73	22.8	85	wnw.			6		3		nw.	0	0	rg'h		clear.
S. S. Granada, N. 9° 34′, W. 85° 10′ †	29.89	759.2	82	27.8	83	nne.			3		3		nne.	½h'r	½h'r	small	nne.	clear.
S. S. San Blas, N. 28° 53′, W. 116° 21′			58	14.4		nw.			3		1		nw.	1 h'r	1 h'r	mod	nw.	clear.
S. S. San José, N. 14° 12′, W. 92° 13′ †	29.90	759.4	82	27.8		wnw.			2		2s		nw.	0	0	long	ssw.	fair
S. S. Gordon Castle, N. 16° 01′, E. 118° 35′*	29.73	755.1	81.0	27.2	87	sse.			6		10		sse.			5–6	se.	raining.
S. Armenia, N. 30° 45′, W. 132° 55′*	30.25	768.3	63	17.2	72	nne.			4		7			0	0	long	nw.	fair.
S. S. Benledi, Yokohama, Japan *	29.94	760.5	66	18.9	74	var.			1–2		0			0	0	sm'h		clear.
Bk. Bore, Macassar, Celebes Id*†	30.21	767.3	87	30.6		e.			1									
S. Grecian, N. 13° 21′, E. 133° 44′†	29.93	760.2	83	28.3	91	e.			5		5	ne.	e.	light	light	mod.	var.	fair.
S. Titan, N. 29° 38′, W. 139° 06′ *†	30.38	771.5	68	20.0	90	ne.			3		2		ne.	0	0	mod.	nw.	clear.
Bk. Xenia, N. 22° 38′ E. 121° 40′			84	28.9		ese.			2		8		se.	3 h'r	3 h'r	sm'h	se.	cloudy.
U. S. S. Ranger, N. 14° 56′, W. 92° 43′	29.94	760.5	81	27.2	82	calm			0		8			0	0	sm'h		cloudy.
District No. 4—South Pacific.																		
H. M. S. Espiegle, S. 18° 08′, E. 178° 26′	29.99	761.7	72	22.2	76	e.			1		4							d. clouds.
H. M. S. Kingfisher, S. 17° 32′, W. 149° 34′	29.89	759.2	79	26.1		calm			0		6							d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.93	760.2	60	15.6		ene.			1							sm'h		d. clouds.
H. M. S. Nelson, S. 33° 52′, E. 151° 13′	29.63	752.6	66	18.9	100	calm			0									misty.
U. S. S. Iroquois, Valparaiso, Chili	30.02	762.5	56	13.3	87	ene.			2		8		nnw.			sm'h		cloudy.
U. S. S. Lackawanna, S. 38° 33′, W. 125° 10′*	29.96	761.0	55	12.8	81	s.			6		8		e.			r'gh	e.	cloudy.
U. S. S. Onward, Callao Peru† *	30.10	764.5	64	17.8	94	calm			0		10							cloudy.
U. S. S. Pensacola, Callao, Peru*	29.98	761.5	65	18.3	84	calm			0		10			0	0			cloudy.
U. S. S. Wachusetts, Apia, Upolu Id, Oceania	29.81	757.2	80	26.7	91	nnw.			2		5		calm			sm'h		fair.
S. S. City of Sydney, Sydney, N. S. W *†	30.01	762.2	57	13.9	63	w			1		10 s			0	0			cloudy.
S. S. Zealandia, S. 33° 56′ E. 160° 20′	30.12	765.0	67	19.4	95	e.			2		8		ne.			mod.	ne.	cloudy.
S. David Crocket, S. 21° 29′, W. 104° 36′*	30.04	763.0	69	20.6	80	ese.			4		5		ese.	0	0	long	se.	fair.
H. M. S. Lark, S. 27° 28′, E. 153° 03′	30.01	762.2	59.3	15.2		calm			0		3					sm'h		d. clouds
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.64	752.8	84	28.9		e.			3		4	sse.				sm'h		d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.68	753.9	89	31.7	80	sw.			1		5							d. clouds
H. M. S. London, Zanzibar, Zanzibar	29.99	761.7	78	25.6	91	sse.			3		5	sse.				2	sse.	d. clouds.
S. S. Tourmaline, Ras Madruka, Arabia	29.87	758.7	83	28.3	87	ssw.			2		0							blue sky
H. M. S. Woodlark, off Bushire, Persia	29.67	753.6	90	32.2	63	n.			2		6	wsw.						misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony *	29.81	757.2	69	20.6	65	w.			3		2		calm			long		clear.
U. S. S. Juniata, Kurrachee, India	29.70	754.4	83	28.3	91	wsw.			4		5		wsw.	0	0	sm'h		fair.
S. S. Salerno, N. 15° 20′, E. 41° 56′†	29.80	756.9	87	30.6		sse.			3		2		se.	0	0	sm'h	s.	clear.
Bk Alpheus Marshall, S. 35° 11′, E. 24° 30′ *†	29.76	755.9				w.			4		3		w.	0	0	mod.	s.	clear.
S. Annie M Law, S. 24° 10′, E. 64° 30′ *†	30.16	766.1	70	21.1		se.			1		0			0	0	long	sw.	clear.
S. S. Burswell, Suez Canal, Egypt*†	29.01	736.8	83	28.3		calm			0		3		calm	0	0	sm'h		clear.
Bk. Ceylon, S. 30° 55′, E. 35° 44′*†	30.08	764.0	79	26.1	78	ne.			4		2		n.	0	0	long	sw.	clear.
S. Dynomene, S. 35° 00′, E. 29° 30′	29.73	755.1	72	22.2	95	wnw.			5		6			sli't	sli't	mod.	sw.	misty.
S. S. Malabar, N. 5° 53′, E. 91° 56′						var.					10		s.	0	0	str'ng	s.	cloudy.
Bk. Pilgrim, Samarang, Java, Oceania*†	29.90	759.4				se.			2		3		se.	0	0			clear.
S. S. Radnorshire, N. 5° 48′, E. 98° 36′ *†	29.76	755.9				se.			3				s.	1 h'r	1 h'r	sm'h	sw.	clear.
S. St. David, S. 21° 10′, E. 100° 54′ *†	29.97	761.2	79	26.1	95	n.			1		7		w.	2 h'r	2 h'r	long	sw.	fair.
S. S. Foscolia, N. 2° 40′, E. 56° 06′ †	29.90	759.4				wnw.			2		2		nw.	0	0	long	s.	clear.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 19, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.12	765.1	69.4	20.8	80	s.			5		0			0	0	clear	Malaterre.
Algiers			30.08	763.9	67.3	19.6	69	w.			1		0			0	0	clear	Thève.
La Calle			30.05	763.2	71.6	22.0	71	nw.			2		2			0	0	fair	Fonfrède.
Tunis			30.04	763.1															Jacques.
Saida			30.11	764.9															Pérès.
Tebessa			30.07	763.7	78.8	26.0	8	nw.			3		0			0	0	clear	St. Martin.
Geriville					85.6	29.8	17	nnw.			4		1			0	0	very fair	Forfert.
Laghouat			30.08	763.9	88.2	31.2	15	s.			2		0			0	0	clear	Abraham.
Biskra			30.06	763.6	89.2	31.8	20	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.35	770.9	47.0	8.3	79	calm	0	0			2 k			0.010	0.3	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.13	765.3	30.22	767.6	45.5	7.5	98	ese.	4	1.8			5			0.04	1.0	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.18	741.2	29.71	754.5	72.7	22.6	41	s.			3		9			0.083	2.1		Prof. Ivan Stozir.
Cracow, I. R Observatory	28 91	734.2	29.07	753.7	48.2	9.0	81	sw.	8.7	3.9			10			0.224	5.7		Dr. Wierzbiski
Eperies	28.75	730.3	29.61	752.1	59.4	15.2	58	s.			2		10 s			inap	inap.		Julius Mikolik.
Gratz	28.51	724.1	29.72	754.8	66.9	19.4	56	calm			0		10			0	0		Andreas Rospini.
Hermannstadt	28.29	718.6	29.66	753.3	67.6	19.8	49	s.			4		5			0.094	2.4		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.50	723.8	29.84	757.9	49.3	9.6	84	nw.			2		10			0.638	16.2	raining	The Staff.
Lemberg	28.61	726.7	29.57	751.2	59.9	15.5	52	sw.			5		10			0.185	4.7		Dr. T. Stanecki.
Neu Schmecks	26.28	667.6	29.61	752.2	48.0	8.9	73	se.			1		10			0.087	2.2		Dr. V. von Szontagh.
Pola	29.65	753.2	29.76	756.0	70.9	21.6	49	se.			4		4			0	0		I. R.Hydrographic Office.
Szathmar	29.21	742.0	29.66	753.4	65.8	18.8	37	w.			5		9			0.028	0.7		Joseph Midlinszky, S. J.
Szegedin	29.44	747.7	29.71	754.5	70.5	21.4	44	w.			2		8			0.307	7.8		Karl Stancel.
Trieste	29.67	753.6	29.77	756.1	72.3	22.4	44	nw.			1		9			0.647	1.2		Royal Academy.
Vienna	29.10	739.2	29.82	757.3	54.1	12.3	55	w.			3		10			0.035	0.9		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.87	758.7	29.97	761.2	49.4	9.7	54	nw.	20	8.9			6			0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.86	758.4	30.09	764.3	55.9	13.3	69	nw.	6	2.7			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			30.06	763.5	51.7	10.9	73	w.	25	11.2			7					d. clouds	John Hartnup.
Bolton, Sharples	29.48	748.8	30.02	762.5	53.1	11.7	73	wnw.	24	10.7			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.58	751.3	29.98	751.5	55.6	13.1	57	w.			3		8			0	0	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	82	27.8	71	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	30.06	763.5	30.16	766.1	61.0	16.1	69	nw.			1.0		8					overcast	John McLaren.
Chatham, School M. E.	29.89	759.2	30.02	762.5	57.1	13.9	59	calm			0		9					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.94	760.5	30.17	766.3	54.1	12.3	71	nw.			2		9					d. clouds	The Staff.
Fort Napier, Natal	27.49	698.2	29.71	754.6	84.0	28.9	22	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.72	754.9	29.95	760.7	84.0	28.9	71	s.			1		4					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	30.10	764.5	30.13	765.2	55	12.8	81	w.			2		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.99	761.7	30.05	763.3	70.5	21.4	93	e.			1		5					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.78	756.4	29.98	761.5	55.4	13.0	42	wnw.			5		7					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.85	758.2	30.02	762.5	60.1	15.6	55	nw.			4		9					overcast	The Staff.
Guernsey	29.83	757.7	30.13	765.3	55.0	12.8	68	nw.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.00	762.0	30.04	763.0	57.4	14.1	58	nw.	14	6.3			9					d. clouds	The Staff.
Leicester, Museum	29.75	755.6	30.01	762.2	57.0	13.9	55	nw.			2		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.70	755.9	29.83	757.7	74.6	23.7	98	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.94	760.5	29.98	761.5	74.0	23.3	55	ne.			3		6					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.53	750 0	30.05	763.3	53.9	12.2	58	nw.			4		7					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.81	757.2	30.04	763.0	56.8	13.8	59	nw.			5		9					overcast	The Staff.
Plymouth	30.06	763.5	30.14	765.5	62.2	16.8	66	nw.			2		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.86	758.4	29.96	761.0	47.2	8.4	74						5					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.68	753.9	29.74	755.4	63.0	17.2	82	n.			1		10					misty	W. H. Lyne.
Sheffield	29.74	755.4	30.01	762.2	61.4	16.3	55	nw.			2		7			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.96	761.0	29.99	761.7	62.0	16.7	74	nw.			2		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.02	762.5	53.9	12.2	68	w.	19	8.5			9					d. clouds	W. C. Carlisle.
Truro, Royal Institution	30.12	765.0	30.20	767.1	60	15.6	71	nw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.18	766.6	30.21	767.3	53.9	12.2	52	nnw.	12	5.4			8					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.50	749.3	29.89	759.2	68.0	20.0	64	nw.	12.4	5.5						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.39	771.9	30.44	773.2	45	7.2	55	se.	1	0.4		0	0			0	0	clear	H. J. Cundall, C. E
Chatham, N. B*	30.36	771.1	30.43	772.9	50	10.0	52	s.	4	1.8		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.87	758.7	30.06	763.5	59.4	15.2	60	sw.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.35	770.9	30.40	772.1	45.5	7.5		e.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.24	768.1	30.26	768.6	46	7.8	93	calm	0	0		2 ck	2 ks	calm	calm	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	28.92	734.6	29.77	756.1	37	2.8	90	n.	16	7.2			10 ks		n.	0.09	2.3	cloudy	James Stewart.
Fredericton, N. B	30.34	770.6	30.41	772.4	50.0	10.0	52	e.	1	0.4		0	0			0	0	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	28.81	731.8	29.89	759.2	58.0	14.4	100	s.	2	0.9			10 n			0.14	3.6	raining	Jas. Grant.
Halifax, N. S*	30.31	769.9	30.44	773.2	47	8.3	54	s.	2	0.9		2 cs	0			0	0	fair	A. Allison.
Hamilton, Ontario	29.46	748.3	29.86	758.4	45.9	7.7	87	se.			3	5 cs	0		se.	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.70	754.4	30.03	762.7	59	15.0	43	s.	16	7.2		10 ck	0	sw.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.41	772.4	30.45	773.4	44.0	6.7	62	calm			0	3 ck	0	sw.		0	0	blue sky	C. H. Rigby.
Montreal, Quebec*	29.92	760.0	30.13	765.3	60	15.6	53	s.	18	8.0		10 cs	0	w.		0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.81	757.2	30.05	763.3	60.0	15.6	59	s.			1	8 cs	0			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.15	740.4	29.83	757.7	56	13.3	93	se.	12	5.4			10 n		sw.	0.46	11.7	light rain	Rev. R. Mosley.
Peterboro, Ontario	29.26	743.2	29.97	761.2	63.7	17.6	67	sw.			1	8 cs	0	sw.		0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.27	743.4	29.95	760.7	57	13.9	69	s.	10	4.5			10 k			0	0	fair	H Morgan.
Port Stanley, Ontario	29.29	744.0	29.93	760.2	53	11.7	80	e.	12	5.4			8 ks		sw.	0.29	7.4	cloudy	M. Payne.
Quebec, Quebec*	29.85	758.2	30.21	767.3	50	10.0	77	n.	6	2.7		10 c	0	n.		0	0	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	29.46	748.3	29.91	759.7	62	16.7	90	calm	0	0			10 n			0.11	2.8	light rain	W. H. McIntyre.
St. Andrews, N. B	30.33	770.4	30.38	771.6	48	8.9	63	se.	9	4.0		0	0			0	0	clear	
St. John, N. B	30.22	767.6	30.39	771.9	54.0	12.2	49	se.	2	0.9		0	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F	30.29?	769.4?	30.55?	776.0?	42	5.6	53	ne.			2	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F			30.39	771.9	42.8	6.0		sw.			2					0	0		The Commandant
Saugeen, Ontario*	29.07	738.4	29.76	755.9	63	17.2	81	s.	30	13.4			10 s			0.05	1.3	cloudy	
Stratford, Ontario	28.64	727.4	29.89	759.2	58.0	14.4	78	s.	10	4.5			10 s			0.083	2.1	d. clouds	O. J. Macgregor, M A
Sydney, C. B*	30.40	772.1	30.47	773.9	44	6.7	60	nw.	3	1.3		2 c	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.59	751.6	29.97	761.2	57	13.9	57	e.	1	1.8			10 ks		sw.	0	0	cloudy	Magnetic Observatory.
Windsor, N. S	30.30	769.6	30.39	771.9	44.0	6.7	76	e	6	2.7		1 c	2 ks			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.79	731.3	29.82	757.4	61.3	16.3	71	se.	19	8.5		0	6 s			0.09	2.3	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.27	768.8	30.34	770.6	53	11.7	47	e.	7	3.1		2 cs	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
London, Ontario	29.65	737.9	29.94	760.5	58.7	14.8	75	s.			2	0	9 ks			0	0	d. clouds	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.99	761.7	30.02	762.5	61.0	16.1	77	wsw.	17.8	8.0			10			0	0	stormy	John Duthie.
Springbok Fontein	27.90	708.6			55	12.8	81	se.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.09	637.2																	A. Gueluy.
Tchang-kia-tchouang	29.77	756.1	29.88	758.9	72.3	22.4	42	sw.			3		4			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.92	759.9	29.94	760.5	62.6	17.0	80	ese.	8.9	4.0		ck	10 k	w.	ese.	0	0	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.33	745.0	29.38	746.2	46.4	8.0	88	nw.	11	5			9						Oversergent Fischer.
Fanoe	29.56	750.7	29.58	751.2	48.0	8.9	73	nw.			6		8						Overloerer Lauridsen.
Godthaab, Greenland	29.76	756.0	29.81	757.1	31.8	— 0.1	92	sw.			4		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.86	758.4	29.91	759.6	33.6	0.9		e.			4		0						
Stykkisholm, Iceland	29.96	761.0	30.00	762.1	34.5	1.4	80	e.			6		8						A. O. Thorlacius.
Thorshavn	29.98	761.6	30.01	762.2	47.1	8.4	65	n.	7	3			6						Overloerer Bergh.
Vestervig	29.42	747.2	29.51	749.5	47.5	8.6	74	nw.			7.		1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.52	749 8			84.0	28.9		nnw.	4.3	1.9		0	5 s			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.47	748 5	30.10	764.4	74.8	23.8	65	nw.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.72	755.0	30.28	769.0	62.6	17	52	sse.					1		nnw.	0	0	clear	M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.82	757.3	29.89	759.3	77.7	25.4	33	nnw.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.47	748.5	30.02	762.5	63.0	17.2	36	nnw.			2		8 n			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.78	756.4	30.05	763.2	59.9	15.5	52	nw.			2		8		nw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.06	738.1	29.94	760.4	69.6	20.9	42	sw.			1	ck	0	w.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.80	757.0	30.06	763.4	77.4	25.2	35	nw.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.48	748.9	30.02	762.6	67.1	19.5	42	nnw.			2	c	0	nnw.		0	0		M. Malet, Director.
Brest, Naval Observatory	29.95	760.7	30.19	766.9	62.6	17	61	nne.			2		1		nne.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.01	762.3	30.08	764.1	61.9	16.6	61	wnw.			1		2		wnw.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.61	752.1	29.92	760.0	61.3	16.3	79	w.			4		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.44	747.8	29.95	760.6	57.2	14	72	nnw.			3		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.66	728.0	29.97	761.1	72.5	22.5	40	w.			1	o	1 k			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.15	740.8	29.99	761.7	70.2	21.2	32	ne.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.13	739.9	29.98	761.4	59.5	15.3	44	w.			4			w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.36	695.0	29.78	756.5	74.8	23.6	16	s.			4	o	1 s		s.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.71	729.3	29.80	756.8	74.5	23.6	52	nw.			4		1		nw.	0	0		M. Kina, Director.
Grenoble. Normal School	29.17	741.0	29.92	759.9	72.7	22.6	39	nw.			3		cn		ne.	0	0		M. Ablard, Director.
Guéret, Normal School	28.50	723.9	30.04	763.0	64.4	18	30	n.			1	o	0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.00	761.9	30.26	768.7	63.7	17.6	47	nw.			3		5		nw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.48	748 8	30.03	762.7	75.9	24.4	44	w.			1	o	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.06	763.5	30.16	766.1	71.6	22.0	50	nw.			1	o	0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.95	735.3	29.97	761.3	70.5	21.4	42	nnw.			2		5			0	0	hazy	M. André, Director.
Mans, Normal School	29.78	756.3	30.08	764.0	64.2	17.9	62	nnw.			1		2		nw.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.57	751.1	29.83	757.7	77.4	25.2	26	wnw.			4		0			0	0		M. Stephan, Director.
Montlouis	24.95	633.7	29.79	756.7	65.8	18.8	20	nw.	16.8	7.5			5	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.76	755.8	29.88	758.9	83.1	28.4	49	nnw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.20	741.6	29.97	761.2	60.1	15.6	47	w.			2		kn			0	0		M. Hasse, Director.
Nantes, Observatory	29.98	761.6	30.15	765.7	67.5	19.7	40	nne.			0–2	1 c; cs	0			0	0		M. Larocque, Director.
Perpignan, Observatory	29.85	758.3	29.96	761.0	81.5	27.5	30	nw.	16.8	7.5			4	w.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.6			44.6	7.0		calm			0		1		n.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	28.90	734.0	29.93	760.1	77.0	25	34	n.			1	o	0			0	0	clear	M. Taillen.
Puy de Dôme Obs'y, Summit	25 21	640.2			50.4	10.2	67	nw.			3		2			0	0	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.05	763.3	30.08	764.1	78.8	26.0	47	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.83	757.6	30.04	762.9	70.9	21.6	48	nw.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.87	708.0	29.92	760.0	77.7	25.4	40	n.			2	o	0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.04	762.9	30.08	764.1	59.4	15.2	74	nw.			1		8	nw.		0	0	very cloudy.	M. Mouillot, Dir.
Saint Maur, Observatory	29.88	759.0	30.04	763.1	63.0	17.2	46	nw.			1		10		nw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.37	746.0	30.10	764.4	78.4	25.8	33	nw.			2		2			0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.91	759.7	30.09	764.2	66.9	19.4	38	n.			1	2 c	0	nw.		0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.55	750.5	30.04	763.0	61.5	16.4	53	ne.			3					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.95	760.6	30.10	764.4	75.9	24.4	50	n.	5.8	2.6		2 c	0			0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28 43	722.2	29.88	758.9	50.7	10.4	63	w.			6		10	w.		0	0		Prof. Jnedt.
Bamberg	29.01	736.9	29.85	758.2	57.7	14.3	70	nw.			3		8 k; s		w.	0.098	2.5	raining	Prof. Dr. Hoh.
Berlin	29.54	750.3	29.69	754.0	46.8	8.2	88	w.			4		10			0.508	12.9		Meteorological Institute.
Breslau	29.15	740.4	29.67	753.7	50.0	10.0	67	wnw.			5		10			0.094	2.4		Royal University Obs'y
Carlsruhe	29.47	748.6	29.93	760.1	58.6	14.8	54	w.			2		10	w.		0	0		Albert Senz.
Cassel	29.07	738.3	29.78	756.4	54.0	12.2	91	w.			6		10	w.		0.043	1.1		Dr. H. Möhl.
Frankfort-on-the-Main			29.85	758.2	59.7	15.4	59	wsw.			2		8			0.028	0.7		Physical Society.
Friedrichshafen	28.52	724.4	29.92	759.9	59.0	15.0	67	w.			3		10	w.		0.532	13.5	hazy	Wilhelm, Chief Tel.
Hamburg	29.55	750.5	29.64	752.8	50.5	10.3	59	nw.			7		7			0.114	2.9	rain squall	E. Preller.
Kiel	29.56	750.9	29.58	751.3	48.7	9.3	48	nw.			8		6			0.402	10.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.24	742.8	29.66	753.4	52.5	11.4	61	wnw.			4		10	w.		0.630	16.0	thund'rst'm	H. Leppig, Asst.
Magdeburg	29.43	747.4	29.61	752.2	50.7	10.4	75	w.			4		10	wnw.		0.098	2.5		Dr. Assmann.
Memel	29.40	746.7	29.44	747.8	44.4	6.9	79	wnw.			3		10 s						Iasermann.
Munich	28.06	712.8	29.92	759.9	53.2	11.8	72	nw.			2		10	w.		0.043	1.1		Central Station.
Neufahrwasser	29.83?	757.6?	29.84?	758.0?	49.5	9.7	74	w.			2		10			0.276	7.0		A. Lothes.
Neustadt, Palatinate	29.38	746.2	29.90	759.5	56.8	13.8	51	wsw.			3		10	w.		0	0		Dicknether.
Stuttgart	28.97	735.7	29.85	758.1	58.6	14.8	44	w.			1		8	nw.		0	0		Prof. Dr. Schoder.
Wustrow	29.47	748.6	29.50	749.3	49.5	9.7	75	nnw.			3	o	8 ks			0.551	14.0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.37	746.1	29.75	755.7	71.2	21.8		s.			1.5	o	7 k			0.004	0.1	light rain	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.62	752.4	29.67	753.6	85.3	29.6	85	w.	29.0	13.0			9	w.		0	0	d. clouds	
Deesa	29.13	739.9	29.58	751.2	109.1	42.8	6	w.	24.0	10.7			0			0	0	blue sky	
Bombay	29.70	754.4	29.74	755.4	87.2	30.7	69	wnw.	12.0	5.4			4	w.	wnw.	0	0	d. clouds	
Poona, Yarrowda	27.85	707.5	29.65	753.0	94.5	34.7	41	wnw.	36.0	16.1			3	nw.		0	0	d. clouds	
Trichinopoly	29.42	747.2	29.69	754.0	96.9	36.1	33	ssw.	2.0	0 9			0			0	0	blue sky	
Belgaum	27.18	690.4	29.68	753.8	81.8	27.7	64	e.	15.0	6.7			2	s.		0	0	d. clouds	
Lahore	28.73	729.6	29.42	747.4	106.3	41.3	14	nw.	6.0	2.7			0			0	0	blue sky	
Roorkee	28.50	724 0	29.34	745.4	105.9	41.1	4	w.	10.0	4.5			0			0	0		
Agra	28.88	733.5	29.40	746.9	112.6	44.8	8	nw.	10.0	4.5			0			0	0	blue sky	
Nagpur	28.49	723.6	29.47	748.4	109.9	43.3	9	s.	12.0	5.4			6		w.	0	0	d. clouds	
Jubbulpore	28.21	716.5	29.49	749.0	105.7	40.9	9	wnw.	6.0	2.7			1			0	0	blue sky	
Lucknow	29.07	738.4	29.43	747.4	106.4	41.3	28	wnw.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.09	738.8	29.38	746.2	107.6	42.0	17	nw.	4.0	1.8			1		w.	0	0	d. clouds	
Patna	29.25	742.9	29.42	747.4	99.7	37.6	36	ne.	5.9	2.6			0			0	0	blue sky	
Hazaribagh	27.50	698.5	29.41	747.0	99.6	37.6	8	nnw	10.6	4.7			5	n.		0	0	d. clouds	
Cuttack	29.48	748.7	29.56	750.7	89.8	32.1	62	wnw.	7.0	3.1			8		s.	0.85	21.6	d. clouds	
Calcutta, Alipore	29.52	749.7	29.54	750.3	87.8	31.0	76	ssw.	14.0	6.3			6			0	0	d. clouds	
Dhubri	29.44	747.6	29.55	750.6	79.6	26.4	81	e.	17.3	7.7			5			0.13	3.3	d. clouds	
Chittagong	29.58	751.4	29.67	753.6	84.2	29.0	77	s.	8.1	3.6			4			0	0	blue sky	
Sibsagar	29.38	746.2	29.72	754.8	75.5	24.2	87	nne.	2.0	0.9			10	w.	w.	0.47	11.9	overcast	
Jeypore	28.09	713.6	29.45	748.0	108.7	42.6	14	nw.	17.0	7.6			3		nw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.16	715.3	.....	.....	103.2	39.6	23	w.	6	2.7	.....	5 ck	2	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.93	760.2	75.4	24.1	93	ssw.	12.7	5.7	.....	.....	10	.....	sse.	1.46	37.1	raining	
ITALIAN.																			
Udine	29.36	745.7	29.76	755.8	74.5	23.6	52	s.	3.1	1.4	.....	.....	9	.....	.....	0.024	0.6	.....	Prof. Giovanni Clodig.
Milan	29.26	743.2	29.76	756.0	76.8	24.9	42	sw.	6.3	2.8	.....	.....	9	.....	.....	0	0	.....	Prof. G.V.Schiapparelli.
Padua	29.59	751.6	29.70	754.3	75.0	23.9	37	ese.	4.9	2.2	.....	.....	8	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.88	733.5	29.76	755.8	79.3	26.3	27	nnw.	3.8	1.7	.....	.....	7	n.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.63	752.6	29.82	757.4	67.8	19.9	69	sw.	4.9	2.2	.....	.....	8	se.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	27.90	708.7	29.76	756.0	73.8	23.2	27	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.90?	759.4?	29.95?	760.6?	73.8	23.2	91	se.	6.3	2.8	.....	.....	10	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.52	749.9	29.78	756.3	76.1	24.5	51	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.65	753.2	29.74	755.4	70.0	21.1	71	w.	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.65	753.0	29.82	757.4	74.5	23.6	52	sw.	12.5	5.6	.....	.....	8	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.52	749.9	29.77	756.2	71.6	22.0	29	nne.	11.2	5.0	.....	.....	1	s.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.93	734.9	29.80	756.9	75.6	24.2	70	s.	2.5	1.1	.....	.....	3	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.66	753.4	29.85	758.3	79.3	26.3	29	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.62	752.3	29.87	758.6	74.1	23.4	39	e.	6.9	3.1	.....	.....	5	.....	.....	0	0	.....	Prof. G. Caccatore.
Syracuse	29.78	756.3	29.82	757.4	72.7	22.6	61	nne.	4.9	2.2	.....	.....	4	w.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.32	744.8	29.83	757.7	71.2	21.8	73	sw.	8.1	3.6	.....	.....	4	sw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.10	561.3	.....	.....	40.8	4.9	56	e.	.....	.....	1	.....	8	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	22.14	562.4	.....	.....	45.9	7.7	51	n.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.05	763.4	30.09	764.3	52.8	11.6	84	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. Hattori.
Awomori	30.04	763.0	30.08	764.0	51.0	10.6	68	s.	3.8	1.7	.....	0	0	.....	.....	0	0	clear	K. Ogawa.
Hamamatsu	30.08	764.0	30.11	764.7	64.2	17.9	88	calm	.....	.....	0	8cs;ck	0	w.	.....	0	0	cloudy	
Kagoshima	29.98	761.6	30.00	761.9	64.0	17.8	77	ne.	.....	.....	6	.....	10 s	.....	.....	0.051	1.3	overcast	G. Miyanonasa.
Kioto	29.90	759.5	30.07	763.9	62.3	16.8	80	sse.	3.3	1.4	.....	1 ck	0	s.	.....	0	0	clear	M. Tojima.
Miasaka	30.03	762.7	30.06	763.4	60.1	15.6	95	ne	.....	.....	2	.....	10 n	.....	e.	0.378	9.6	raining	K. Masusaki.
Miyako	29.99	761.6	30.09	764.4	47.6	8.7	94	ssw.	6.5	2.9	.....	0	0	.....	.....	0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.80	756.9	30.00	762.0	64.7	18.2	74	calm	0	0	.....	7 c	3 s	sw.	.....	0	0	overcast	S. Takehayashi.
Niigata	30.06	763.5	30.09	764.3	56.5	13.6	89	e.	1.3	0.5	.....	10 cs;ck	0	w.	.....	0	0	cloudy	M. Morita.
Nobiru	30.03	762.9	30.05	763.3	55.8	13.2	94	n.	4.5	2.0	.....	10 cs	0	sw.	.....	0	0	covered	H. Midzushima.
Numazu	30.07	763.8	30.11	764.7	64.1	17.8	84	wnw.	.....	.....	2	8cs;ck	2 ks	w.	w.	0	0	cloudy	R. Kaneda.
Osaka	30.05	763.3	30.07	763.7	64.0	17.8	77	nw.	1.8	0.8	.....	5 ck	2 ck;s	e.	e.	0	0	fair	H. Omura.
Tokei Obs'y, Yeddo	30.00	761.9	30.07	763.8	63.7	17.6	81	ssw.	12.1	5.4	.....	10 cs	0	.....	.....	0	0	cloudy	The Staff.
Wakayama	30.01	762.2	30.06	763.5	64.5	18.1	76	calm	0	0	.....	9 ck	0	w.	.....	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	74.7	23.7	75	se.	12.5	5.6	.....	1 cs	4 k;ks	.....	ese.	0.06	1.5	fair	The Staff.
MEXICAN.																			
Guanajuato	23.67	601.3	29.89	759.3	66.2	19.0	73	w.	inap.	inap.	.....	6 cs	0	s.	.....	0.480	12.2	fair	Prof. Vicente Fernandez.
Leon	24.30	617.2	29.94	760.5	60.1	15.6	87	nnw.	2.0	0.9	.....	8 c	0	.....	.....	0.120	3.0	dense fog	Prof. M. Leal.
Mazatlan	29.70	754.3	29.96	761.0	61.0	16.1	82	e.	1.6	0.8	.....	2 cs	0	.....	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	63	17.2	84	nw.	13.7	6.1	.....	1 c	2 s	w.	s.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.98	761.4	29.98	761.4	54.1	12.3	.....	wnw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	29.74	755.4	29.80	756.8	48.7	9.3	.....	nw.	.....	.....	5	.....	.....	.....	.....	0.059	1.5	.....	
Helder	29.88	759.0	29.88	759.0	48.6	9.2	.....	nw.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.95	760.6	29.95	760.6	53.6	12.0	66	wnw.	.....	.....	3	.....	.....	.....	.....	0.020	0.5	.....	
Utrecht	29.87	758.8	29.92	760.0	56.7	13.7	52	wnw.	.....	.....	4	.....	5	.....	.....	0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.81	752.7	.....	.....	80.8	27.1	76	nne.	0	0	.....	.....	2	.....	.....	0	0	.....	Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.52	749.7	29.58	751.3	49.7	9.8	52	nnw.	20	9	.....	.....	6	.....	.....	0	0	.....	
Brono	29.57	751.1	29.61	752.1	50.7	10.4	63	n.	.....	.....	4	.....	1	.....	.....	0	0	.....	
Christiania	29.27	743.5	29.42	747.2	50.4	10.2	60	nne.	13	6	.....	.....	10	.....	.....	.....	.....	raining	
Gjæsvær	29.85	758.2	29.87	758.8	35.2	1.8	.....	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.65	753.1	29.70	754.3	51.1	10.6	48	ne.	.....	.....	0-2	.....	1	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.80	756.8	29.95	760.8	60.6	15.9	78	ene.	6.3	2.8	.....	.....	3	.....	.....	0.433	11.0	.....	Dr. J. A. Sampaio.
Campo Major	29.09	738.9	30.05	763.3	80.6	27.0	41	sw.	1.3	0.6	.....	.....	2	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.87	758.8	29.96	761.0	66.2	19.0	87	sw.	6.3	2.8	.....	.....	10	.....	.....	0.736	18.7	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.73	755.2	30.06	763.6	66.0	18.9	83	s.	8.7	3.9	.....	.....	1	sw.	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.82	757.4	29.89	759.2	59.4	15.2	75	nne.	11.2	5.0	.....	.....	3	.....	.....	0.858	21.8	.....	
Saint Paul de Loando	29.65	753.2	29.85	758.3	82.0	27.8	92	n.	1.3	0.6	.....	.....	3	sse.	.....	0	0	.....	
Serra da Estrella	25.41	645.4	30.01	762.3	63.0	17.2	37	ese.	14.3	6.4	.....	.....	2	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.65	727.6	29.68	753.8	68.2	20.1	21	sw.	31	14	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.72	754.9	29.74	755.4	51.1	10.6	54	calm	0	0	.....	0	8 ks	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	29.79	756.7	29.70	754.3	89.2	31.8	52	calm	0	0	.....	.....	9 k	.....	.....	0	0	light clouds	
Astrakhan	29.63	752.7	29.55	750.6	89.2	31.8	25	wsw.	7	3	.....	ck	7 s	.....	.....	0.039	1.0	.....	Capt. Wisganow.
Baku	29.77	756.1	29.72	754.9	80.1	26.7	48	s.	13	6	.....	7 ck	0	.....	.....	0	0	.....	
Barnaul	29.47	748.4	29.97	761.1	48.2	9.0	45	sw.	16	7	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y
Bielosersk	29.09	738.8	29.56	750.7	43.5	6.4	88	ese.	18	8	.....	.....	10 ks	.....	.....	0.075	1.9	.....	
Dorpat	29.16	740.7	29.40	746.7	55.0	12.8	57	ese.	7	3	.....	.....	10 ks	.....	.....	0.232	5.9	.....	Observatory.
Ekaterinburg	28.78	730.9	29.73	755.2	48.2	9.0	56	nnw.	13	6	.....	.....	9 n	.....	.....	inap.	inap.	.....	Meteorological Obs'y.
Elisawetgrad	29.22	742.3	29.66	753.4	64.2	17.9	53	wnw.	11	5	.....	4 ck	0	.....	.....	0.051	1.3	.....	
Irkutsk	28.59	726.2	30.29	769.3	30.5	2.5	80	nw.	.....	.....	4	.....	10	.....	.....	blank	blank	.....	
Kasalinsk	29.32	744.6	29.49	749.1	94.6	34.8	25	calm	0	0	.....	.....	10 k	.....	.....	.....	.....	.....	
Kasan	29.47	748.5	29.73	755.1	65.3	18.5	28	ese.	4	2	.....	0	0	.....	.....	blank	blank	.....	Observatory.
Kem	29.74	755.4	29.79	759.7	37.0	2.8	79	ne.	22	10	.....	.....	10 k	.....	.....	0	0	heavy cl'ds.	
Kertch	29.72	754.8	29.74	755.4	64.4	18.0	65	s.	4	2	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	28.98	736.2	29.60	751.9	61.0	16.1	52	w.	4	2	.....	0	6 ks	.....	.....	0.008	0.2	.....	Observatory.
Koslov	28.98	736.0	29.48	748.8	79.3	26.3	41	ssw.	11	5	.....	0	6 ks	.....	.....	0	0	.....	
Liban	29.37	745.9	29.39	746.5	43.3	6.3	87	w.	9	4	.....	.....	10	.....	.....	0	0	.....	E. Quaas.
Lugan	29.33	745.0	29.51	749.5	73.0	22.8	64	sse.	4	2	.....	.....	8	.....	.....	0.051	1.3	heavy cl'ds.	Meteorological Obs'y.
Moscow	28.94	735.1	29.39	746.5	67.1	19.5	46	sw.	17.9	8.0	.....	0	5 ks	.....	.....	0.020	0.5	.....	Meteorological Obs'y
Nikolaiev	29.61	752.0	29.68	753.9	69.8	21.0	58	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.88	758.9	29.96	761.1	35.2	1.8	84	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.04	752.8	29.78	756.4	76.8	24.9	38	s.	5.6	2.5	.....	2 cs	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.42	747.3	29.75	755.0	91.0	32.8	26	se.	1.1	0.5	.....	0	7 k	.....	.....	0	0	.....	
Petrozavodsk	29.34	745.2	29.54	750.2	43.7	6.5	91	se.	11	5	.....	.....	10	.....	.....	0.906	23.0	.....	Dr. Bergmann.
Pinsk	29.44?	747.8?	29.94?	760.4?	58.5	13.6	64	ssw.	22	10	.....	.....	10 n	.....	.....	0.102	2.6	raining	
Pott	29.71	754.7	29.74	755.5	68.0	20.0	91	nw.	4	2	.....	0	2 s	.....	.....	0	0	.....	
St. Petersburg	29.39	746.4	29.41	747.0	53.8	12.1	51	ene.	9	4	.....	.....	10 kn	.....	.....	0.035	0.9	.....	Central Physical Obs'y.
Samarkand	27.43	696.7	29.74	755.3	84.7	29.3	34	s.	3.4	1.5	.....	1 c	0	.....	.....	0	0	.....	
Semipalatinsk	29.38	746.3	30.03	762.7	63.5	17.5	20	s.	13	6	.....	.....	2	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.53	750.0	29.75	755.7	59.9	15.5	81	sw.	20	9	.....	.....	10 n	.....	.....	0	0	heavy cl'ds.	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mts. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Staroi Bykhov	29.13	739.9	29.57	751.1	62.4	16.7	32	sw.	11	5		10 ck	0			0.335	8.5	light clouds.	Terch, A. M.
Tashkend	28.21	716.4	29.76	755.9	85.6	29.8	20	calm	0	0		0	8 k			0	0	light clouds	Physical Observatory.
Tiflis	28.38	720.9	29.74	755.3	72.7	22.6	51	calm	0	0		0	10 n			0	0		
Vernoe	27.45	697.1	29.86	758.4	68.7	20.4	44	calm	0	0		0	0			0.020	0.5		
Viatka	29.05	737.8	29.66	753.4	57.0	13.9	57	calm	0	0		0	5			0	0		Astronomical Obs'y.
Warsaw	29.12	739.7	29.54	750.4	51.3	10.7	58	wnw.	18	8		0	5 k			0.449	10.2	heavy clouds	M. O. Marks.
Yeniseisk	29.71	754.6	30.00	762.1	36.7	2.6	56	s.	16	7		7	10			0	0		
SCOTTISH.																			
Monach Lt			30.02	762.5	52	11.1	93	nw.			3	3	0	nw.		blank	blank	clear	J. Youngclause.
North Unst			29.85	758.2				n			6	0	3						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.91	759.6	30.00	762.1	71.1	21.7	60	e.	1.1	0.5		0	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.05	763.3	30.11	764.8	70.2	21.2	66	nw.	2.5	1.1		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.16	689.9	29.98	761.6	76.8	24.9	34	ne.	3.6	1.6		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.88	708.1	30.01	762.3	77.7	25.0	38	w.	8.9	4.0		0	6			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.85	758.2	29.99	761.8	91.0	32.8	41	sse.	4.7	2.1		1	2	ene.		0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.28	743.6	30.17	766.2	59.0	15.0	94	nw.	4.0	1.8		8 kn	1 kn	sw.	w.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.11	739.4	29.96	761.0	80.6	27.0	53	calm	0	0			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.94	760.6	30.01	762.2	73.1	22.8	76	se.	4.5	2.0		ck;k	k	ne.	ne.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.6	29.84	758.0	82.0	27.8	74	ene.	4.9	2.2		3 cs	3 ks	e.	ene.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.1	30.06	763.6	78.4	25.6	56	e.	5.2	2.3		0	6		se.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.81	757.1	29.90	759.4	75.2	24.0	94	calm	0	0			10 kn		w.	0.177	4.5	overcast	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.63	752.7	29.67	753.7	51.1	10.6	42	e.			4		5			0.283	7.2		
Umea	29.52	749.9	29.58	751.2	51.1	10.6	54	e.			4		10			0	0		
Hernosand	29.48	748.8	29.53	750.1	47.5	8.6	78	ne.			6		10			0.051	1.3		
Stockholm	29.17	740.8	29.34	745.3	41.7	5.4	97	ene.			4		10			0.260	6.6	raining	
Wisby	29.27	743.4	29.33	744.9	46.8	8.2	78	w.			4		7			0.189	4.8		
Sub-series.																			
Upsala	29.26	743.2	29.35	745.4	41.4	5.2	98	ne.	11.6	5.2			10		ne.	0.110	2.8	raining	S. G. Fineman.
SWISS.																			
Geneva	28.26	725.6	29.95	760.7	71.6	22.0	37	sse.			2		6			0	0		The Observatory.
TURKISH.																			
Constantinople			29.78	756.4	63.7	17.6	80	n.	7	3.0			10		n.	0	0		The Observatory.
Valona			29.90	759.4	76.1	24.5		w.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	756.0	72.5	22.5	68	ne.			2	c	6 k		ne.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.82	681.2			56	13.3	86						10 n		e.			raining	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.20	767.1	30.28	769.1	63.7	17.7	40	s.	2	0.9		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.01	736.8	29.67	753.6	64	17.8	84	s.	1	0.4			10 s		sw.	0.54	13.7	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.11	637.8	29.93	760.2	33	0.6	65	e.	2	0.9		0	0			0.07	1.8	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.40	695.9	30.24	768.1	47	8.3	58	sw.	20	8.9		10 k	0	w.		0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.00	730.6	30.18	766.6	64.5	18.1	90	se.	8	3.6		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.22	767.6	30.23	767.8	59	15.0	60	ne.	7	3.1		5 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.01	762.2	30.20	767.1	63	17.2	73	e.	2	0.9		2 cs	0			0	0	clear	John Healy.
Baltimore, Maryland	30.24	768.1	30.29	769.4	58	14.4	57	n.	2	0.9		1 cs	fg.			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.22	767.6	30.24	768.1	58.0	14.4	74	e.	14	6.3		1 c	0	e.		0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.71	754.6	29.73	755.1	33.3	0.7		ne.	11	4.9			10 n		ne.	0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.32	719.3	29.88	758.9	52.0	11.1	80	n.	17	7.6		5 k	5 k	nw.	nw.	0.10	2.5	cloudy	A. Pritchard.
Benton, Fort, Montana	27.53	699.2	30.32	770.1	42	5.6	52	sw.	12	5.4		0	3 ks			0	0	clear	S. Wheaton.
Billings, Montana	27.00	685.8	30.18	766.6	45	7.2	63	w.	16	7.2		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.10	713.7	29.89	759.2	46	7.8	86	n.	10	4.5			10 s		n.	0.01	0.3	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.24	768.1	30.27	768.8	51	10.6	80	ne.	12	5.4		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.32	693.9	30.16	766.1	40	4.4	73	nw.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.14	765.5	30.30	769.6	59.0	15.8	62	e.	5	2.2		1 c	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.72	754.9	29.76	755.9	80.0	26.7	79	s.	14	6.3		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.24	742.7	29.98	761.5	64.5	18.1	41	se.	14	6.3		8ck;cs	sk.	sw.		0	0	cloudy	W. Finn.
Buford, Fort, Dakota	28.05	712.5	30.03	762.7	50	10.0	80	nw	16	7.2			10 s			0	0	cloudy	F. A. Mellen.
Burlington, Vermont	29.91	759.7	30.20	767.1	63.0	17.2	47	s.	13	5.8		6 ks	0	w.		0	0	fair	D. N. Farnell.
Cairo, Illinois	29.56	750.8	29.96	761.0	68.6	20.3	89	nw.	2	0.9			10 n		nw.	0.28	7.1	light rain	W. H. Ray.
Cape Henry, Virginia	30.18	766.6	30.20	767.1	59	15.0	54	n.	8	3.6		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.20	767.1	30.23	767.8	59.0	15.0	42	ne.	12	5.4		2 c	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.59	751.6	30.27	768.8	52.5	11.4	69	n.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	66	18.9	78	ne.	5	2.2		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.11	764.8	30.16	766.1	63.0	17.2	73	n.	8	3.6		7 c	0			0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.35	745.5	30.19	766.8	62.5	16.9	01	calm	0	0		6 ck	fg.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.14	765.5	66.5	19.2	65	s.	5	2.2		1 cs	0	sw.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.12	612.6	29.99	761.7	40.2	4.6	86	n.	16	7.2			10 s		n.	0.62	15.8	cloudy	E. McGovern.
Chicago, Illinois	28.95	735.3	29.65	753.1	68.3	20.2	77	sw.	16	7.2		2 c	8 s		sw.	0.15	3.8	cloudy	John Laurens.
Chincoteague, Virginia	30.18	766.0	30.20	767.1	57	13.9	04	ne.	14	6.3		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.33	745.0	29.98	761.5	72.0	22.2	71	s.	8	3.6		10 cs	0	sw.		0.10	2.5	cloudy	L. Dunne.
Cleveland, Ohio	29.22	742.2	29.95	760.7	67	19.4	52	s.	14	6.3			10 s		s.	0.03	0.8	cloudy	J. B. Newlin.
Coleman City, Texas	28.06	712.7	29.86	758.4	65	18.3	001	ne.	7	3.1			10 n			2.22	56.4	light rain	T. J. Kenan.
Columbus, Ohio	29.14	740.1	29.98	761.5	67	19.4	63	s.	8	3.6		4 k	5 s	s.	s.	0.10	2.5	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.01	711.4	29.91	759.7	64.0	17.8	100	e	9	4.0			10 n			3.55	99.2	thund'r st'm	J. McGlone.
Davenport, Iowa	28.94	735.1	29.58	751.3	67	19.4	68	sw.	18	8.0		6 k	0	sw.		0.08	2.0	fair	R. R. Martin.
Davis, Fort, Texas	25.22	640.6	29.94	760.5	58	14.4	57	n.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.66	728.0	30.41	772.4	45	7.2	60	s.	3	1.3		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.44	646.2	29.96	761.0	44	6.7	100	ne.	4	1.8			10 n			2.62	66.5	light rain	F. Willson.
Delaware Breakwater, Del	30.22	767.6	30.24	768.1	56	13.3	69	ne.	13	5.8		2 c	0	ne.		0	0	clear	T. S. Townsend.
Denver, Colorado	24.83	630.7	29.99	761.7	49.0	9.4	50	w.	3	1.3			10 s		w.	0.33	8.4	cloudy	F. M. Neal.
Des Moines, Iowa	28.74	730.0	29.63	752.6	58	14.4	81	nw.	10	4.5			10 n		nw.	inap.	inap.	light rain	F. W. Conrad.
Detroit, Michigan	29.15	740.4	29.85	758.2	65.0	18.3	90	se.	14	6.3			10 s			0.21	5.3	cloudy	E. R. Bruce.
Dodge City, Kansas	27.33	694.2	29.88	758.9	53	11.7	74	nw.	10	4.5		0	6 s		w.	0	0	fair	J. H. Bryce.
Dubuque, Iowa	28.84	732.5	29.54	750.3	64.8	18.2	05	sw.	8	3.6		2 ck	0	s.		0	0	clear	J. Harvey Smith.
Duluth, Minnesota	28.68	728.5	29.43	747.5	46	7.8	100	s.	7	3.1			10s;fg		s.	0.96	24.4	cloudy	N. B. Conger.
Eagle Pass, Texas	28.96	735.6	29.76	755.9	81.2	27.3	67	se.	9	4.0			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.51	647.9	30.19	766.8	35	1.7	69	n.	12	5.4		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	30.30	769.6	30.37	771.4	46.0	7.8	08	ne.	8	3.6		2 c	0			0	0	clear	D. O. Murphy.
Elliott, Fort, Texas	27.12	688.8	29.82	757.4	48	8.9	58	ne.	16	7.2		0	0			0	0	clear	W. J. Oundall.
El Paso, Texas	26.28	667.5	29.92	760.0	50.0	10.0	55	w.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.25	742.9	29.97	761.2	68	20.0	47	s.	18	8.0			10 s		s.	inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	28.83	732.3	29.49	749.0	50.0	10.0	93	s.	4	1.8			fg.			0.03	0.8	dense fog	George Heathcote.
Galveston, Texas	29.84	757.9	29.88	758.9	77	25.0	74	s.	19	8.5		2 ck	hz.	s.		0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	28.98	736.1	29.64	752.8	61.0	10.1	87	s.	28	12.5			10 n		s.	0.09	2.3	light rain	J. E. Mueller.
Grant, Fort, Arizona	25.28	642.1	29.89	759.2	43	6.1	37	e.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.06	763.5	30.08	764.0	59	15.0	54	ne.	36	16.1		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	26.10	662.9	30.27	768.8	51	10.6	74	w.	12	5.4		0	0			0	0	clear	N. C. Smith.
Huron, Dakota	28.40	721.3	29.74	755.4	50.1	10.1	83	nw.	14	6.3			10 ks		nw.	0.26	6.6	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.06	738.1	29.84	757.9	69.8	21.0	76	sw.	10	4.5			10 n		sw.	0.08	2.0	light rain	C. F. R. Wappenhans.
Indianola, Texas	29.77	756.1	29.80	756.9	77.0	25.0	82	se.	25	11.2		0	3 k		s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.73	729.7	29.88	758.9	68	20.0	78	sw.	5	2.2			10 s		sw.	0.38	9.7	cloudy	D. J. Carr.
Jacksonville Florida	30.09	764.3	30.13	765.3	67	19.4	81	calm	0	0		0	0			0	0	clear	J. W. Smith.

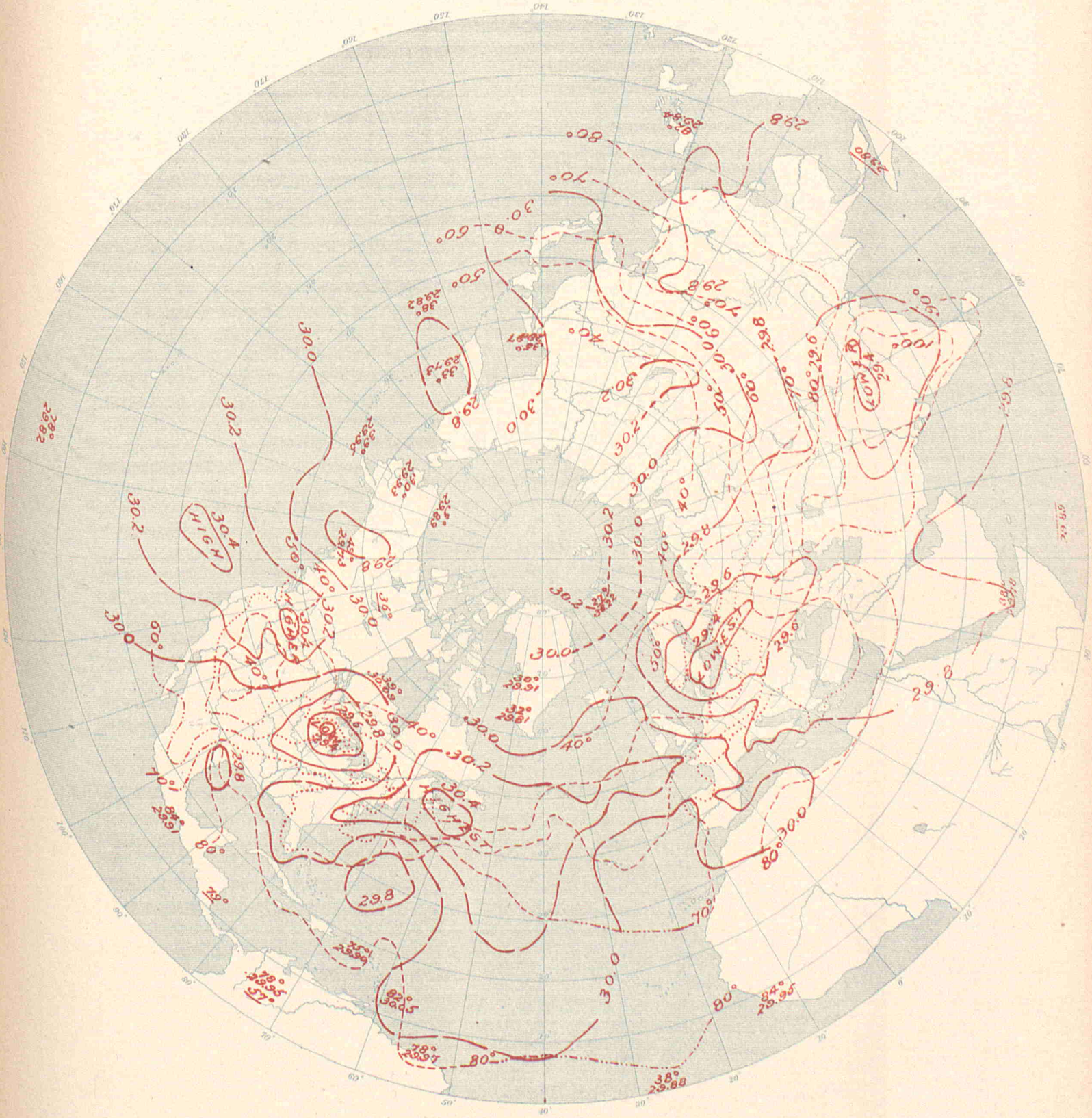
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.66	702.6	30.11	764.8	50	10.0	80	nw.	20	8.9		8 k	0			0.04	1.0	cloudy	W. B. Lamar.
Keokuk, Iowa	28.99	736.3	29.64	752.8	71.0	21.7	71	sw.	12	5.4		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	76.5	24.7	60	ne.	9	4.0		0	1 k		ne.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	57	13.9	67	ne.	35	15.6		0	hz.			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.11	739.4	30.13	765.3	61.6	16.4	83	e.	4	1.8		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	28.66	728.0	29.42	747.3	62	16.7	73	sw.	12	5.4			10 s		sw.	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.86	733.0	29.74	755.4	58	14.4	74	nw.	4	1.8		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.63	752.6	30.47	773.9	42.0	5.6	82	e.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.57	751.1	29.88	758.9	74	23.3	82	s.	12	5.4		3 c	0			0.02	0.5	clear	W. U. Simons.
Los Angeles, California	29.72	754.9	30.12	765.0	54	12.2	86	e.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.39	746.5	29.94	760.5	71	21.7	71	s.	11	4.9			10 s			0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.54	750.3	30.22	767.6	59.2	15.1	71	sw.	1	0.4		0	8 ks		se.	0	0	cloudy	Lou's Duane.
Mackinaw City, Michigan	28.91	734.3	29.56	750.8	65.2	18.4	78	s.	5	2.2		3 cs	5 s		sw	0.89	22.6	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.10	764.5	30.10	764.5	58.0	14.4	64	nw.	22	9.8		0	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.87	657.1	30.28	769.1	48	8.9	46	w.	25	11.2		0	0			0	0	clear	F. Burke.
Marquette, Michigan	28.72	729.5	29.44	747.8	64	17.8	84	s.	14	6.3		4 c	1k; fg	s.	s.	0.02	0.5	fair	E. H. Thompson.
Memphis, Tennessee	29.61	752.1	29.94	760.5	75	23.9	69	se.	12	5.4		0	6 s		s.	0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	28.81	731.8	29.55	750.6	68	20.0	90	sw.	20	8.9		0	7 ks		sw.	0.77	19.6	fair	W. Line.
Missoula, Fort, Montana	27.14	689.3	30.44	773.2	48	8.9	58	ne.	4	1.8		0	0			0	0	clear	J. H. Young.
Mobile, Alabama	30.04	763.0	30.08	764.0	75.3	24.1	67	sw.	6	2.7		0	3 k		sw.	0	0	clear	C. A. Read.
Montgomery, Alabama	29.88	758.9	30.11	764.8	70.5	21.4	78	se.	8	3.6		3 ck	0	w.		0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.72	729.5	29.70	754.4	40	4.4	89	n.	28	12.5			10 s		n.	0.99	25.1	cloudy	H. Bessaut.
Mt. Washington, N. H	24.06	611.1	30.24	768.1	39.0	3.9	59	s.	34	15.2		3 c	0	w.		0	0	clear	S. W. Beall.
Nashville, Tennessee	29.45	748.0	30.02	762.5	72.5	22.5	68	s.	9	4.0		10 k	0	s.		0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.15	765.8	30.27	768.8	55	12.8	49	ne.	8	3.6		1 c	hz.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.23	767.8	30.28	769.1	61	16.1	39	n.	4	1.8		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.02	762.5	74.5	23.6	79	se.	7	3.1		0	4 ks		s.	0	0	fair	H. C. Smyth.
New York, New York	30.10	764.5	30.28	769.1	61	16.1	60	calm	0	0		2 cs	fg.	ne.		0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.16	766.1	30.19	766.8	63	17.2	42	n.	11	4.9		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.01	686.0	29.88	758.9	53.6	12.0	78	nw.	12	5.4			10 s		nw.	0.22	5.6	cloudy	E. F. Brady.
Olympia, Washington T'y	30.33	770.4	30.37	771.4	40.0	4.4	89	sw.	1	0.4			10 s			0.01	0.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.55	725.2	29.71	754.6	57.2	14.0	79	nw.	4	1.8			10 ks		nw.	0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	29.88	758.9	29.89	759.2	8.5	—13.1	100	sw.	8	3.6		2 k	4 s	w.	w.	0	0	fair	P. H. Ray.
Oswego, New York	29.74	755.4	30.07	763.8	64.0	17.8	43	se.	16	7.2			10 k		w.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.36	745.7	29.91	759.7	74.0	23.3	84	s.	10	4.5			10 s		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.10	764.5	75.7	24.3	69	se.	10	4.5		0	4 k		se.	0	0	fair	M. McGauran.
Philadelphia, Pa	30.18	766.6	30.28	769.1	60	15.6	72	n.	2	0.9		2 cs	fg.	w.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.79	451.9	29.85	758.2	15	— 9.4	100	ne.	14	6.3			10 s		ne.	0.35	8.9	cloudy	H. Hall.
Pioche, Nevada	24.26	616.2	30.18	766.6	39.0	3.9	67	n.	9	4.0		2 c	0	n.		inap.	inap.	clear	F. R. Day.
Pittsburg, Pennsylvania	29.26	743.2	30.06	763.5	66.0	18.9	47	se.	7	3.1			10 s		w.	0	0	cloudy	W. A. Reid.
Poplar River, Montana	27.97	710.4	30.09	764.3				se.			6	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.16	740.7	29.84	757.9	62.0	16.7	84	s.	16	7.2			10 s		sw.	0.21	5.3	cloudy	M. H. Perry
Portland, Maine	30.28	769.1	30.34	770.6	53	11.7	66	e.	5	2.2		0	0			0	0	clear	W. W. Eichelberger
Portland, Oregon	30.28	769.1	30.35	770.9	54.2	12.3	86	calm	0	0			10 s		s.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C					61	16.1	84	ne.	23	10.3		6 c	hz.	sw.		0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.84	630.9	29.94	760.5	33.0	0.6	90	e	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.26	768.6	30.29	769.4	54.5	12.5	49	e.	7	3.1		1 c	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.02	762.5	30.03	762.7	67.5	19.7	69	ne.	7	3.1		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.93	760.2	30.28	769.1	55	12.8	62	n.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.39	746.5	30.05	763.3	61	16.1	50	s.	18	8.0			10k; ks		sw.	inap.	inap.	threatening	E. W. McGann.
Roseburg, Oregon	29.83	757.7	30.38	771.6	46.5	8.1	88	calm	0	0		0	2 s		sw.	0	0	clear	J. J. Nanry.
Sacramento, California	30.14	765.5	30.22	767.6	54.5	12.5	68	n.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.20	741.7	29.79	756.7	66.0	18.9	93	s.	22	9.8		1 cs	7 s	sw.	sw.	1.15	29.2	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.90	759.4	29.93	760.2	30	— 1.1	100	w.	3	1.3			fg.			inap.	inap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.54	724.9	29.38	746.2	58.0	14.4	93	w.	1	0.4			10 s		w.	0.06	1.5	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.86	733.0	29.72	754.9	39	3.9	89	nw.	21	9.4			10 s			0.60	15.2	cloudy	C. B. Dilley
Salt Lake City, Utah	25.89	657.6	30.21	767.3	46	7.8	56	calm	0	0		6 c	0	w.		0	0	fair	J. Craig.
San Antonio, Texas	29.11	739.4	29.81	757.2	74	23.3	84	se.	2	0.9		0	7 s		se.	0	0	fair	J. H. Davis.
San Diego, California	29.98	761.5	30.05	763.3	53.2	11.8	86	n.	2	0.9		0	0			0	0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	30.24	768.1	30.27	768.8	56.0	13.3	69	ne.	2	0.9		1 k	0	ne.		0	0	clear	B. A. Blundon.
Sanford, Florida	30.02	762.5			68.0	20.0	84	n.	4	1.8		2 k	fg.			0	0	clear	J. B. Marbury.
San Francisco, California	30.15	765.8	30.22	767.6	53.5	11.9	90	s.	2	0.9		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.27	591.0	29.88	758.9	40	4.4	62	n.	8	3.6		10 k	0	n.		0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.17	766.3	62	16.7	78	n.	9	4.0		1 c	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.62	676.1	30.22	767.6	41	5.0	67	sw.	20	8.9		0	0			0	0	clear	A. L. Matthews.
Shreveport, Louisiana	29.67	753.6	29.91	759.7	75.0	23.9	82	s.	4	1.8			10 s		s.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.61	720.7	29.83	757.7	60	15.6	65	nw.	8	3.6		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.67	753.6	29.73	755.1	49	9.4	63	e.	17	7.6		0	4 ks		e.	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.37	746.0	29.84	757.9	68.0	20.0	97	e.	4	1.8			10 s		s.	1.26	32.0	cloudy	J. B. Campbell.
Smithville North Carolina	30.10	764.5	30.14	765.5	59	15.0	42	n.	9	4.0		1 c	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.38	720.8	30.43	772.9	39.8	4.3	73	e.	1	0.4		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.05	737.9	29.72	754.9	66	18.9	84	s.	18	8.0		0	3 s		sw.	1.71	43.4	clear	T. B. Jennings.
Springfield, Missouri	28.38	720.8	29.80	756.9	67	19.4	93	sw.	8	3.6			10 s		sw	1.25	31.7	cloudy	J. H. Bryce.
Starkville, Miss	29.60	751.8	30.06	763.5	71	21.7	83	se.	5	2.2		3 c	5 s	w.		0	0	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.09	713.5	29.92	760.0	44	6.7	93	n.	16	7.2			10 s		nw.	0.13	3.3	cloudy	A. Schneider.
Stockton, Fort, Texas	26.93	684.0	29.94	760.5	57	13.9	77	w.	11	4.9		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	30.29	769.4	30.34	770.6	54.0	12.2	77	ne.	6	2.7		5 k	0	w.		0	0	fair	G. Liebmann.
Thomas, Camp, Arizona	27.30	693.4	29.97	761.2	47	8.3	86	w.			1	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.17	740.9	29.85	758.2	67	19.4	73	s.	9	4.0			10 s		sw.	0.12	3.0	threatening	A. Buell.
Tucson, Arizona	27.61	701.3	29.95	760.7	50	10.0	66	se.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.93	760.2	29.95	760.7	39	3.9	73	se.	12	5.4			10 s		se.	0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					45	7.2	36	sw.			1	0	0			0.07	1.8	clear	O. L. Pease.
Vicksburg, Mississippi	29.75	755.6	30.00	762.0	73.0	22.8	84	se.	8	3.6		6 k	0	sw.		0	0	fair	James Kenealy.
Visalia, California	29.83	757.7	30.20	767.1	52.4	11.3	82	e.	3	1.3		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.64	625.8	30.12	765.0	40.1	4.5	75	ne.	2	0.9		2 k	0			0.17	4.3	clear	T. M. Ambler.
Washington, D. C	30.16	766.1	30.27	768.8	58.7	14.8	65	ne.	1	0.4		0	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.10	662.9	29.94	760.5	49	9.4	80	nw.	9	4.0			10 n			0.12	3.0	light rain	F. H. Brandenburg.
Williamsport, Pa	29.60	751.8	30.20	767.1	61	16.1	45	e.	4	1.8			9 k		se.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.10	764.5	30.15	765.8	61	16.1	44	n.	9	4.0		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.96	659.4	30.30	769.6	31	— 0.6	76	calm	0	0		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.46	722.9	29.74	755.4	50	10.0	86	nw.	19	8.5			10 ks		nw.	0.18	4.6	cloudy	J. H. Atfield.
Yuma, Arizona	29.87	758.7	30.02	762.5	59.6	15.3	58	n.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			56.5	13.6	85	calm	0	0			10ks; s		w.	0.32	8.1	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I			29.91	759.7			76	nw.	2	0.9		1 c	2 s			0.35	8.9	clear	Robert Johnston.
Paramaribo, S. A	29.97	761.2	29.97	761.2	78	25.6	86	se.			2	5 k	8 ps	e.		0.880	22.4	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.95	760.7	78	25.6	89	n.			1		10 ks		n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A					79	26.1	91	ne.				10 ck	0	e.		0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I																			Aug. Walloe.
Santiago de Cuba, W. I	29.89	759.2	29.91	759.7	75	23.9	64	n.	6	2.7		0	2 s			0	0		R. Mason.
York Factory, B. A	30.03	762.7	30.09	764.3	38.5	3.6	95	w.	6	2.7		0	1 s		w.	0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 38° 15', E. 18° 30'	29.81	757.2	69	20.6	75	nw.			1		0					1	wnw.	blue sky.
H. M. S. Dido, Barbadoes, W. I.	29.89	759.2	82	27.8		ese.			2		3	e.				2	s.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.71	754.6	71	21.7	90	nne.			4		8	nne.						d. clouds
H. M. S. Minotaur, Gibraltar, Mediterranean	30.08	764.0	67	19.4	79	s.			2		2	ssw.						d. clouds.
H. M. S. Neptune, N. 35° 58', W. 5° 55'	29.99	761.7	65	18.3		ese.			4		4	ese.				3	ese.	misty.
H. M. S. Opal, N. 40° 07', W. 14° 02'	29.96	761.0	61	16.1	94	e.			3		6	ese.				4	ssw.	d. clouds.
H. M. S. Rocket, N. 38° 32', W. 28° 38'	29.98	761.5	65	18.3	84	n.			4		5							squally.
H. M. S. Tenedos, Halifax, N. S.	30.45	773.4	48	8.9	63	ese.			2		3	se.						d. clouds.
U. S. Navy Yard, Pensacola, Fla	30.07	763.8	76	24.4	73	sse.	5	2.2			8		sse.	0	0			fair
U. S. Navy Yard, Portsmouth, N.H.*	30.25	768.3	54	12.2	72	ne.	2	0.9			0			0	0			clear
U. S. S. Alliance, Norfolk, Va	30.22	767.6	61	16.1	59	nne.			2		2			0	0			clear.
U. S. S. Colorado, New York, N. Y.	30.31	769.9	63	17.2	42	n.	1	0.4			0							misty.
U. S. S. Franklin, Norfolk, Va	30.18	766.6	62	16.7	61	ne.	7	3.1			2		calm	0	0			fair.
U. S. S. Jamestown, Newport, R.I.*†	30.20	767.1	54	12.2	72	n.			1		0							clear.
U. S. S. Kearsarge, Hampton Roads, Va	30.16	766.1	64	17.8	73	n.			4		0							clear.
U. S. S. Lancaster, Kronstadt, Russia	29.47	748.5	51	10.6	93	ese.			2		5		ese.			sm'h		fair.
U. S. S. Michigan, Erie, Pa.	29.94	760.5	66	18.9	59	wsw.			6		10		sw.					cloudy.
U. S. S. Minnesota, New York, N. Y.	30.29	769.4	61	16.1	?	ene.			2		2		e.					hazy.
U. S. S. New Hampshire, Newport, R. I.	30.25	768.3	54	12.2	87	nne.			1		2		calm			sm'h		fair.
U. S. S. Portsmouth, Newport, R.I.	30.32	770.1	52	11.1	86	n.			2		0							cloudy †
U. S. S. Powhatan, Cartagena, U.S.C.	29.86	758.4	77	25.0	100	s.			1		10		s.					raining.
U. S. S. Quinnebaug, Junk river, Liberia, Africa	29.89	759.2	82	27.8	87	ssw.			1		5		sw.			sm'h	ssw.	fair.
U. S. S. Saratoga, N. 38° 41', W. 73° 30'	30.23	767.8	51	10.6	86	nne.			3-4		2		nne.	0	0	mod.	nne.	clear.
U. S. S. St. Louis, League Island, Pa.	30.20	768.6	54	12.2	74	calm	0	0			2		calm	0	0			clear.
U. S. S. Swatara, Progresso, Yucatan	29.91	759.7	80	26.7	78	e.			3		0			0	0	sm'h		clear.
U. S. S. Tennessee, Fort Monroe, Va.			65	18.3	63	ne.	12	5.4			0			0	0			clear.
U. S. S. Vandalia, Hampton Roads, Va	30.17	766.3	63	17.2	78	nne.			3		0							clear.
U. S. S. Wabash, Boston, Mass.	30.30	769.6	56	13.3	75	n.	1	0.4			2		n.	0	0			clear.
U. S. S. Yantic, Fort Monroe, Va.	30.22	767.6	62	16.7	72	nne.			4		2							clear.
Commewyne, N. 42° 25', W. 30° 58'	30.06	763.5	58.3	14.6	91	ne.			5		10							overcast.
S. S. Inchkeith, N. 4° 47', W. 26° 14'	29.92	760.0	78.6	25.9	89	var.			2		6							showery.
S. S. Illinois, Mersey river, Eng*	29.99	761.7	54	12.2		nw.			4		5		nw.					fair.
S. S. Lord Gough, N. 51° 09' W. 22° 43'	30.21	767.3	53	11.7		sw.			3		5		sw.	0	0	mod	w.	fair.
S. S. Ohio, N. 41° 08', W. 47° 19' †	30.32	770.1	62	16.7	94	ese.			1		2		ese.	0	0	sm'h	nw.	clear.
S. S. Pennsylvania, N. 44° 00', W. 39° 10'†	30.27	768.8	60	15.6		e.			1		9		nne.			sm'h	ne.	cloudy.
S. S. Circassian, Quebec, Canada	30.23	767.8	52	11.1	79	ne.			4		4		e.	0	0			d. clouds.
S. S. Grecian, N. 50° 19', W. 43° 40'	30.35	770.9	43	6.1	83	nnw.			4		10		nnw.	1½h'r	1½h'r	sm'h		cloudy.
S. S. Polynesian, Montreal, Canada.	30.18	766.6	67	19.4		ssw.			2		3		w	0	0			fair.
S. S. Manitoban, Quebec, Canada			49	9.4	71	wsw.			3		4		ssw.	0	0	sm'h	w.	clear.
S. S. Scandinavian, N. 48° 51', W. 48° 21'*	30.30	769.6	36	2.2		nne.			1		10					sm'h		showery.
S. S. Sardinian, N. 49° 44', W. 28° 39'			54	12.2		e.			1		9		e.	0	0	long	ene.	cloudy.
S. S. Ailsa, Jacmel, Hayti, W. I †.	29.82	757.4	80	26.7		var.			2									fine.
S. S. Anchoria, N. 42° 53', W. 55° 48'†	30.36	771.1				ne.			3				e.	sh'rs	sh'rs	sm'h		fine.
S. S. Assyria, N. 40° 24', W. 71° 05'	30.20	767.1	52	11.1		ne.			4		2		ne.	0	0	sm'h		clear.
S. S. Bolivia, Glasgow, Scotland			54	12.2		sse.			2		8							
S. S. Dorian, N. 40° 32', W. 71° 06'	30.27	768.8	54	12.2		ne.			5		0			0	0	mod.	e.	clear
S. S. Furnesia, N. 40° 28', W. 66° 49' †	30.14	765.5	57	13.9	94	ne.			4		10		ne.	0	0	long	ne.	overcast.
S. S. Llandaff City, N. 40° 48', W. 69° 33'			48	8.9		ne.			6		2		e.	0	0	mod.		clear
S. S. Bothnia, N. 42° 54', W. 51° 04'	30.35	770.9	56	13.3	94	wnw.			2		fg			0	0	cf'd		dense fog.
S. S. Scythia, N. 41° 13', W. 56° 33'	30.22	767.6	69	20.6	100	calm			0		9		se.	0	0			cloudy.
S. S. Colina, N. 55° 24' W. 10° 00'†	30.00	762.0				w.			3		9		nw.	0	0	long	nw.	cloudy.
S. S. Canada, N. 40° 25', W. 59° 20'	30 34	770.5	73.4	23		s.			3	c	0	s.		0	0	sm'h	s.	almost clear
S. S. France, N. 41° 30', W. 48° 07'†*	30.22	767.7	68.0	20	68	wsw.			3		0			0	0	sm'h	wsw.	
S. S. Ville de Marseilles, Puerto Plata, Hayti, W. I.			74	23.3		nne.			3		0			0	0	long	n.	clear.
S. S. Arizona, N. 41° 47', W. 58° 32'	30.29	769.4	48?	8.9?		ne.			4		10		ne.	0	0	mod.	ene.	foggy.
S. S. Bohemia, Hamburg, Germany						wnw.			6		5		wnw.	6 h'r	6 h'r			squally.
S. S. Gellert, N. 49° 45', W. 12° 30'	30.28	769.1	52	11.1	93	ene.			2		3		e.	0	0	sm'h	e.	clear.
S. S. Rugia, N. 47° 02', W. 28° 31'	30.27	768 8	53	11.7		ne.			5		10		e.	0	0	long	e.	overcast.
S. S. Silesia, N. 25° 29' W. 68° 34'	29.78	756.4	72.6	22.6		w.			6		1		wsw.	0	0	5	nw.	fair
S. S. Westphalia, N. 40° 29', W. 66° 59'	30.09	764.3	52	11.1	93	ne.			5		10		e.			mod.	ne.	misty.
S. S. Wieland, N. 41° 35', W. 47° 07'	30.36	771.1				wsw.			1				w.	0	0	sm'h	w.	foggy.
S. S. Mentmore, N. 52° 39', W. 5° 35' *†	30.18	766.6				nne.			4		8		n.	0	0	mod.	n.	cloudy.
S. S. Bulgarian, N. 49° 37', W. 30° 27'	30.20	767.1				ssw.			1		10		w.	0	0	light	se.	overcast.
S. S. Colorado, New York, N.Y †	30.25	768.3	55	12.8		nne.			2		0			0	0			clear.
S. S. San Marcos, N. 26° 40', W. 88° 00'			80	26.7		s.			4		1		s.			mod.		clear.
S. S. Chalmette, N. 26° 15' W. 79° 45' †	30.08	764.0	74	23.3		nne.			6		3		nne.	0	0	mod.	nne.	clear.
S. S. New York, N. 35° 15', W. 75° 15'*†	30.04	763.0	60	15.6		n.			7		2		n.			h'vy	ne.	clear.
S. S. Lone Star, N. 32° 25', W. 79° 10'†	30.10	764.5	68	20.0		nne.			3		2		ne.	0	0	r'gh	ne.	clear.
S. S. Alleghany, Boston, Mass †	30.33	770.4	52	11.1		e.			1		0			0	0			hazy.
S. S. Archimede, N. 37° 01', W. 36° 26' †	30.17	766.3	66	18.9	64	nne.			5		6		ne.	0	0	h'vy	ne.	fair.
S. S. City of Washington, N. 33° 18' W. 76° 05†	30.03	762.7	65	18.3		n.			5		8		n.	0	0	mod.	n.	cloudy.
S. S. Denmark, London, Eng†	30.09	764.3	58	14.4		var.			2		10			0	0			overcast.
S. S. England, N. 46° 47', W. 32° 43'	30.30	769.6	54	12.2		e.			4		10		e.	0	0	mod.	ene.	overcast.
S. S. Greece, N. 45° 13', W. 35° 21'*	30.19	766.8	63	17.2	94	n.			3				n.			mod.	se.	dense mist.
S. S. Helvetia, New York, N.Y.	30.31	769 9	56	13.3	87	n.			1		2		n.	0	0			clear.
S. S. Holland, N. 40° 28', W. 74° 00'	30.18	766.6	55	12.8		ene.			3		8		ene.	0	0	sm'h	ene.	cloudy.
S. S. The Queen, N. 49° 42' W. 23° 18'	30.17	766.3	63	17.2	83	var.			2		2		ene.	0	0	sm'h		clear.
S. S. America, N. 46° 14', W. 33° 09' *	30.26	768.6	57.5	14.2	90	e.			2		9		se.	0	0	mod.	e.	cloudy.
S. S. Braunschweig, N. 47° 56', W. 27° 17'	30.23	767.8	57.0	13.9	75	ene.			3		6		ene.	0	0	sm'h	e.	fair.
S. S. Elbe, N. 40° 22', W. 52° 30'	30.34	770.6	65	18.3	78	se.			4-5		4		s.	0	0	mod.	sse.	hazy.
S. S. Hohenzollern, N. 41° 10', W. 52° 14'*	30.33	770.4	65.3	18.5		ssw.			2		10		w.	0	0	light	w.	overcast.
S. S. Main, N. 50° 27', W. 2° 17'	30.10	764.5	60.8	16.0		nw.			2		4		sw.	0	0	mod.	e.	fair.
S. S. Ober, N. 47° 15', W. 33° 11'	30.26	768.6	54.5	12.5		calm			0		7		wsw.	0	0	sm'h		fair
S. S. Strassburg, N. 41° 22', W. 44° 03'	30.38	771.6	81.5?	27.5?	63	calm			0		3		n.	0	0			clear.
S. S. Werra, N. 49° 40' W. 18° 29'	30.26	768.6	56	13.3		se.			4		5		se.	0	0	mod.	sse.	fair.
S. S. Orinoco, N. 37° 10', W. 69° 00'*†	29.86	758.4	72	22.2		e.			5		8		ene.			h'vy	var.	stormy.
S. S. Colon, N. 9° 32', W. 78° 50'†	29.88	758.9	80	26.7		sw.			2		10			0	0	mod.	ne.	overcast.
S. S. Muriel, N 35° 30', W. 70° 50'	29.77	756.1	61	16.1		n.			5		10					h'vy	n.	raining.
S. S. City of Augusta, Savannah, Ga†	30 21	767.3				nne.			2		4		ne.	0	0			fair.
S. S. Rhynland, Jersey City, N. J	30.36	771.1	68	20.0	74	calm			0		0			0	0			clear.
S. S. Pennland, N. 43° 35', W. 40° 35'	30.39	771.9	61	16.1	71	nw.			4		5		nw.			sm'h		foggy.
S. S. Waesland, N. 46° 44', W. 32° 12'	30.31	769.9	56	13.3		ne.			2		3		ne.	0	0	sm'h	ne.	clear.
S. S. P. Caland, Rotterdam, Holland	29.96	761.0	54.7	12.6	82	wnw.			5		8		sw.					cloudy.
S. S. Rotterdam, N. 40° 32' W. 73° 02'	30.25	768.3	54	12.2	82	nnw.			1		1		nw.	0	0	sm'h		clear.
S. S. Schiedam, N. 47° 30', W. 21° 14'	30.21	767.3	60.4	15.8	87	ene.			4		9		e.	0	0	mod.	e.	cloudy.
S. S. W. A. Scholten, N. 39° 57', W. 60° 16'			71.8	22.1	100	se.			6		8		se.	0	0	high	e.	cloudy.
S. S. Zaandam, N. 46° 30', W. 36° 50'	30.27	768.8	61.2	16.2	91	w.			1		9 k		w.	0	0			foggy.
S. S. Valentia, Puerto Cabella, Venezuela†	29.99	761.7	80.5	26.9	91	calm			0		3		calm	0	0			clear.
S. S. State of Florida, New York, N. Y.			63	17.2		n.			1		10		w.	0	0			overcast.
S. S. State of Georgia, N. 44° 34', W. 46° 16'†	30.39	771.9	52	11.1		calm			0		10			0	0	mod.	ssw.	dense fog.
S. S. State of Nevada, Glasgow, Scotland †	29.89	759.2	45	7.2		w.			4		10		w.	0	0			overcast.
S. S. State of Alabama, N. 47° 48', W. 30° 55'*	30.12	765.0	54	12.2		e.			1		0			0	0	sm'h		clear.
S. S. Marengo, N. 42° 17', W. 53° 40'			50	10.0		nnw.			5		10			1 h'r	1 h'r	long	sw.	raining.
S. S. Romano, N. 48° 55', W. 11° 47' †	30.25	768.3	58	14.4		ene.			3		3		ene.			mod.	ne.	clear.
S. S. Toronto, N. 55° 50', W. 11° 00	30.12	765.0	55	12.8		wsw.			5		7		w.	0	0	mod.	wsw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Lake Huron, N. 48° 17′, W. 61° 03′	30.34	770.6	54	12.2		w.			1		0			0	0	sm'h		clear.
S. S. Lake Manitoba, Kenmare Bay, Ireland	30.19	766.8	64	17.8		nw.			2		1		nw.	0	0			clear.
S. S. Daniel Steinmann, N. 49° 13′, W. 21° 58′†	30.27	768.8	56	13.3		ene.			3		0			0	0	mod.	ene.	clear.
S. S. Planlyn, N. 42° 57′, W. 40° 12′	30.26	768.6							3		3		ene.	0	0	sm'h	n.	fair.
S. S. Norman, Philadelphia, Pa.	30.21	767.3				wsw.			1		0			0	0			clear.
S. S. Saxon, N. 40° 10′, W. 73° 15′†	30.26	768.6				n.			6		1		nw.	0	0			clear.
S. S. Adriatic, N. 47° 43′, W. 32° 35′*†	30.38	771.6	55	12.8	87	se.			2		8		sw.	0	0	sli't	e.	cloudy.
S. S. Celtic, New York, N. Y.			56	13.3		e.			2		fg.			4 h'r	4 h'r	sm'h		rain & fog.
S. S. Germanic, N. 41° 01′, W. 67° 13′			46	7.8		ne.			5		8		ne.	0	0	mod.	ne.	cloudy.
S. S. Assyrian Monarch, N. 45° —′, W. 48° —′	30.34	770.6	44	6.7		ne.			3		1		ne.			sm'h		clear.
S. S. Antonio Lopez, N. 41° 09′, W. 23° 02′	29.93	760.2	55	12.8	87	ne.			6		10		ne.	4 h'r	4 h'r	rg'h	ne	drizzling.
Schr. Abbie H Gheen, N. 30° 00′, W. 81° 00′†	30.13	765.3	70	21.1		n.			5					0	0			clear.
Bg. Abbie Clifford, N. 24° 00′, W. 67° 23′†.	29.94	760.5	73	22.8		wnw.			4		6		nw.	shr's	shr's	r'gh	nw.	fair.
Bk. Alpha, N. 47° 40′, W. 39° 20′*†	30.26	768.6	60	15.6		wsw.			4		8		w.	0	0	sm'h		foggy.
Bg. Alcira, Maracaybo, Venezuela	29.95	760.7	86	30.0		e.			2		3		e.	0	0			clear.
Bk. Adelaide, N. 17° 03′. W. 41° 18′ *†	30.10	764.5	77	25.0		e.			5		1		e	0	0	mod.	e.	clear.
Schr. Annie R Lewis, Arroyo, Porto Rico, W. I†	30.00	762.0	83	28.3		n.			1		3		ese.	0	0			clear.
Schr. Arthur Burton, St. Simons Island, Ga*†	30.10	764.5				ne.			1		1		ne.	0	0			fine.
Bk. Aureola, N. 13° 30′, W 61° 23′			90	32.2		ene.			1		8		e.	0	0	mod.	e.	cloudy.
Bk. Achille F., N. 5° 15′, W. 26° —′†	29.91	759.7	78.5	25.8	98	e.			1		5		se.	1 h'r	1 h'r	long	var.	showery.
Bk. Arda, Holmes' Hole, Mass*†	30.40	772.1				ene.			2		3		ene.	0	0	sm'h		clear.
Bg. Annie R. Storer, N. 24° 35′, W. 72° 25′†	29.90	759.4				nw.			4		6		nnw.	1 h'r	1 h'r	hv'y	n.	fair.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.87	758.7	82	27.8		ene.			1		4		ene.	0	0			fair.
S. S. Burswell, Port Said, Egypt*†	29.89	759.2	79	26.1		nne.			3		3		ene.	0	0	sm'h		fine.
Bg. Belle of the Bay, N. 26° 30′, W. 75° 29′†	29.99	761.7				n.			6		8		n.	0	0	long	n.	overcast.
Bk. Champion. N. 21° 50′, W. 64° 22′			80	26.7	96	calm			0		8		nnw.	0	0	high	nw.	cloudy.
Bkt. C. S. Bushnell, N. 40° 43′, W. 69° 10′	30.15	765.8				ne.			6		1		se.	0	0	h'vy	se.	fine.
S. Cornelius, N. 49° 10′, W. 5° 12′†	30.19	766.8	53.4	11.9		nnw.			4		0			0	0	sm'h		clear.
Bk. Childwall, N. 34° 00′, W. 44° 34′			69	20.6		nne.			3		4		ne.	0	0	sm'h		fine.
Schr. Clotilde, N. 26° 49′, W. 74° 27′ *†	29.83	757.7	75	23.9		nw.			4		10		w.	0	0	cross	var.	cloudy.
S. Criterion, off Oversay Island, Scotland*†	29.90	759.4	57	13.9		var.			2		10		s.	sh'rs	sh'rs	light	wnw.	hazy.
S. David Steward, N. 34° 11′, W. 50° 57′ †	30.22	767.6				se			4		2		sse.	rain	rain	mod.	ese.	clear
S.S.D. J. Foley, N. 38° 18′, W. 75° 00′ *†.	30.20	767.1	66	18.9	94	n			2		2		nne.	0	0	long	ene.	clear.
Bkt. David A. Preston, N. 23° 55′, W. 70° 16′			76	24.4		w.			6		8		w.	0	0	long	n.	
Schr. Edith R. Seward, Montego Bay, Jamaica, W. I.			88	31.1		s.			1		2		ene.	0	0	sm'h		clear.
S. E. J. Spicer, Liverpool, Eng	30.13	765.3	56	13.3	94	nw.			5		10		nw.	12 h'r	12 h'r			rain & fog.
Bk. E. D. Bigelow, N. 42° 56′, W. 52° 30′ *†.	30.25	768.3	46	7.8		ne.			5				ne.	3 h'r	3 h'r	r'gh	s.	foggy.
U. S. Fish. Com. S. S. Fish Hawk, Glymont, Md†	30.35	770.9	61	16.1	94	ene.			1		1		calm	0	0			clear.
Schr. F. E. McDonald, N. 27° 15′, W. 83° 04′†	30.09	764.3				ene.			5					0	0			clear.
Bk. George Davis, N 41° 10′ W. 46° 40′						calm			0					0	0	sm'h	sw.	clear.
Bk. Gronsaver, N. 17° 03′, W. 52° 42′†	29.92	760.0	79.2	26.2		ese.			5		5		ese.	¼h'r	¼h'r	long	ene.	fair.
Bk. Galeon, N. 20° 49′ W. 90° 33′ †	29.95	760.7	79	26.1		e.			3		0			0	0	sm'h	sse.	blue sky.
S. Hedwig, N. 39° 59′, W. 29° 50′	30.08	763.9	58.5	14.7	88	nne.			5		9		nne.	2 h'r	2 h'r	4	ne.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C*†	30.09	764.3	64	17.8		n			1		2		w.	0	0			fine.
Bk. John H. Pearson, N. 29° 11′, W. 30° 38′						nnw.			4				nnw.	0	0	h'vy	ne.	clear.
Schr. Isabel Alberto, Jersey City, N. J†	30.28	769.1				n.			1		0			0	0			clear.
Bk. Cato, N. 50° 18′, W. 17° 32′*†	30.27	768.8				ene.			3		2		ne.	0	0	mod.	ne.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	30.01	762.2				calm			0		0			0	0			clear.
Schr. Jennie N. Huddell, Baltimore, Md†	30.26	768.6	63	17.2	89	calm			0		2			0	0			clear.
Bkt. Josephine, N. 23° 44′, W. 61° 37′†	29.85	758.2	79	26.1	58	sw.			3		8			e	0	long	wnw.	fair.
Schr. Leonessa, Baltimore, Md.						n.			2		0			0	0			clear.
Bg. L. & W. Armstrong, N. 28° 34′, W. 70° 34′*†	29.70	754.4				nw.			8		3		nnw.	2 h'r	2 h'r	h'vy	nnw.	
Light House Tender, Laurel, Pensacola, Fla†	30.11	764.8	76	24.4		se.			2		0		se.	0	0			fair.
Bg. Lilian, Georgetown, British Guana†.	29.89	759.2	82	27.8		ese.			2		4		e.	0	0			fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	80	26.7		calm			0		0			0	0			clear.
Bk. Milo, N. 49° 20′, W. 9° 40′†	30.20	767.1				nne			3–4		0					long	nw.	clear.
S. S. Madrid, N. 39° 03′, E. 17° 35′†	29.84	757.9	66	18.9	79	nw.			5		0			0	0	sm'h		clear.
Schr. Minnie A. Bonsall, N. 38° 18′, W. 74° 45′†.	30.15	766.6	60	15.6		nne.			5		0			0	0	long	ese.	clear.
Bkt. Kryolith, N. 61° 10′, W. 50° 20′ *†	29.80	756.9				e.			3									
S. Mt. Washington, N. 0° 51′, W. 27° 33′*†	29.98	761.5	83	28.3	81	se.			5		1		se.	0	0	mod.	se.	clear.
Bk. Matilda C. Smith, N. 37° 50′, W. 07° 00′ †	29.91	759.7				e.			6		6		e.	4 h'r	4h'r	r'gh	e.	stormy.
Bk. Matthias, N. 40° 59′, W. 42° 26′*†	30.48	774.2	66	18.9		ne.			3		3		ne.	0	0	long	wnw.	
Schr. Maggie Abbott, N. 34° 04′, W. 76° 44′†.	30.03	762.7				nne.			7		0			0	0		ene.	clear
S.S. Mendoza, N. 16° 28′, W. 52° 10′†	30.10	764.5				ese.			3				ese.	0	0	sm'h	ese.	overcast.
Schr. Maud Briggs, N. 22° 46′, W. 56° 05′*†	30.02	762.5				s.			5		7		s.	12 h'r	12 h'r	short	sse.	fair.
Bk. Ottawa, N. 41° 49′, W. 45° 01′*	30.28	769.1	68	20.0		w.			3		4		w.	0	0	sm'h	w.	clear.
S. S. Raleigh, New York, N. Y†	30.23	767.8	60	15.6														
Bk. Rebus, N. 50° 25′, W. 0° 43′	30.06	763.5	52	11.1		w.			2		3		n.	0	0	sm'h	ene.	fair.
Bk. Rosalie Saint John, Antigua, W. I*†	29.98	761.5				ese.			1				se.	2 h'r	2 h'r			clear.
Bg. Scud, N. 32° 27′, W. 62° 32′*†	29.76	755.9	75	23 9		se.			5		2		se.	0	0	h'vy	se.	clear.
Bk. Southern Belle, Huelva, Portugal †	30.02	762.5				wsw.			3		0			0	0			clear.
S. St. Francis, N. 40° 11′ W. 42° 40′			68	20.0	69	nne.			3		2		ne.	0	0	sm'h	nw.	fair.
S. S. Strathleven, N. 35° 46′. W. 42° 53′	30.29	769.4	65.2	18.4	89	nnw.			3		4		n.	0	0	3	n.	d. clouds.
Bgt. Sunlight, Demerara, British Guiana *†	30.09	764.3				ese.			4		4		ese.	0	0			fair.
Bg. Teneriffe, N. 22° 01′, W. 74° 25						n.			5		0							
Bk. Tuck Sing, N. 27° 15′, W. 70° 25′ *†	29.78	756.4				nw.			6		10		nw.	2 h'r	2 h'r	h'vy	nne.	
Bk. Usko, N. 43° 01′, W. 40° 05′			68	20.0		ene.			1		5		var.	2 h'r	2 h'r	long	e.	fair.
S Vincenzo Accame, N. 38° 30′, W. 73° 58′†.	30.23	767.9	59.0	15		nne.			0		0			0	0	long	ene.	clear.
Schr. Viola Reppard, N. 40° 55′, W. 71° 55′ †.	30.18	766.6	59	15.0		ne.			1		1		calm	0	0	long	ne.	clear.
Bk. Winifred, N. 26° 12′, W. 66° 05′ *†	29.86	756.9											var.	0	0	h'vy	nw.	
S. Wm. McGilvery, N. 3° 00′, W. 28° 40′*†	29.90	759.4	82	27.8	83	sse.			4		9		se.	0	0	sm'h		fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay *†	29.94	760.5	64.2	17.9	94	nne.			4		10	sw.				1	ne.	threatening.
H. M. S. Boadicea, Cape Town, Cape Colony	30.06	763.5	62	16.7	94	wsw.			2		2							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.89	759.2	63.7	17.6	89	var.			1		10							overcast.
H. M. S Thetis, S. 20° 16′ W. 26° 48′	30.02	762.5	74	23.3	86	se.			3		3					5	s.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.85	758.2	66	18.9	89	nw.	15	6.7			10		nw.	0.03	0.8	sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	29.82	757.4	66	18.9	89	wnw.			1		10					sm'h		cloudy.
May Hulse, S. 48° 18′, W. 43° 05′	30.09	764.3	42	5.6	91	n.			1									foggy.
S. S. Archimedes, S. 1° 25′ W. 38° 23′	29.85	758.2				se.			4		4		se.	10 mi	nutes	mod.	se.	fair.
S. S. Hevelius, Buenos Ayres, LaPlata†	29.92	760.0	62	16.7		nw.			2		10		w.	0	0			foggy.
S. S. Ptolemy, S. 19° 30′, W. 38° 30′	30.02	762.5	75	23.9	90	ese.			7		9us		ssw.	6.32	100.5	0	ese.	raining.
S. Minnie N. Gerow, S. 32° 32′, W. 22° 20′†.	30.12	765.0	68	20.0		sse.			0		5		sse.	0	0	h'vy	se.	threatening.
S. Paramita, S. 21° 44′, W. 33° 32′†	30.03	762.7	75	23.9		ese.			7		3		e.	1 h'r	1 h'r	long	se.	clear.
S. Storm King, S. 57° 07′, W. 05° 33′ *†	29.70	754.4				n.			5		8		n.	0	0	r'gh	nw.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.89	759.2	66	18.9	94	ese.			1		5	se.						d. clouds.
H. M. S. Champion, N. 10° 40′, E. 101° 20′	29.69	754.1	85	29.4	96	wsw.			3		7					3	sw.	d. clouds.
H. M. S. Sappho, N. 12° 00′, W. 86° 50′	29.93	760.2	82	27.8	96	ne.			2		5	ne.				3	nw.	d clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 25′	29.94	760.5	57	13.9	94	calm			0		7							misty.
H. M. S. Magpie, N. 16° 21′, E. 119° 33′	29.81	757.2	84.5	29.2	76	s.			3		8					4	ssw.	d clouds.
H. M. S. Swiftsure, Esquimalt, V. Id	30.32	770.1	48	8.9	92	calm			0		10							overcast.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Zephyr, Robe, Japan	30.07	763.8	65	18.3	84	calm			0		0							blue sky.
H.P. M. S. Tamega, Macao, China	29.82	757.4	81.5	27.5	84	ese.			5		3			0	0			d. clouds.
U. S. Naval Hospital, Yokohama. Japan	30.13	765.3	64.5	18.1	92	ssw.			5		8		w.	0	0			foggy.
U. S. S. Adams, Sitka,, Alaska †	29.73	755.1	49	9.4	71	e.			4		10					sm'h		cloudy.
U. S. S. Hartford, N. 5° 05′, W. 145° 58′ †	29.82	757.4	78	25.6	91	ene.			4		10		ne.	h'vy	h'vy	mod.	ne.	cloudy.
U. S. S. Monocacy, Roze Island, Corea	29.97	761.2	62	16.7	83	calm			0		10		calm					misty.
U. S. S. Palos, Hong Kong, China	29.70	754.4	77	25.0	100	e.			2		10		e.					cloudy.
U. S. S. Richmond, Hong Kong, China*	29.68	753.9	79	26.1	95	ese.			3		10			0.1	3.			cloudy.
S. S. Mexico, Mazatlan, Mexico †	29.90	759.4	64	17.8	67	e.			1		1		e.					clear.
S. S. Coptic, N. 40° 51′, E. 167° 01′	29.90	759.4	48.5	9.2	70	sw.			5		9		sw.	3 h'r	3 h'r	mod.	var.	raining.
S. S. Oceanic, N. 34° 13′, E. 137° 49′ *	30.08	764.0	67	19.4	89	ssw.			4		9		w.					cloudy.
S. S. City of Chester, Eureka, Cal†			45	7.2	100	calm			0		10			0	0			overcast.
S. S. Willamette, Strait of Juan de Fuca*†	30.33	770.4	49	9.4	93	calm			0		6		wsw.	0.61	15.5			fair.
S. S. Ancon, N. 33° 08′, W. 118° 15′ †	30.06	763.5	59	15.0	88	nw.			2		0					mod	wsw.	clear.
S. S. Dakota, N. 40° 12′, W. 124° 24†	30.23	767.8	55	12.8	81	nw.			6		10		nw.	0	0	r'gh	nw.	cloudy.
S. S. G. W. Elder, Port Townsend, Wash. Ter †	30.19	766.8	51	10.6	79	s.			3		10							overcast.
S. S. Queen of the Pacific, N. 41° 00′ W. 124° 35′ †	30.35	770.9				n.			2		0			0	0	long	nw.	clear.
S. S. State of California, N. 42° 00′, W. 124° 30′†	30.40	772.1	52	11.1	79	calm			0		0					sm'h	wnw.	clear.
S. S. City of Pekin, N 43° 56′, E. 162° 45′			38	3.3	81	nw.			4		10		nw.	0	0	light	nw.	overcast.
S. E. B. Sutton, N. 32° 00′, W. 133° 30†	30.41	772.4	60	15.6	88	ene.			3		6		ne.	0	0	long	nw.	fair.
S. S. City of Rio de Janeiro, N. 37° 36′, W. 130° 02′ †	30.42	772.7	57	13.9	81	wnw.			1		2		wnw.	0	0	mod.	s.	hazy.
S. S. Colima, N. 24° 24′, W 111° 56′ †	29.95	760.7	59	15.0	88	nw.			4		4		w.	0	0	mod.		fair.
S. S. Granada, N. 7° 57′, W. 83° 19′ †	29.92	760.0	82	27.8	79	w.			1		4		e.	1 h'r	1 h'r	small	w.	fair.
S. S. San Blas, N. 25° 04′, W. 112° 48′			59	15.0		nnw.			2		0			0	0	mod.	nw.	clear.
S. S. San José, N. 15° 08′, W. 96° 35†	29.91	759.7	84	28.9		wsw.			2		5 s		wsw.	0	0	long	ssw.	fair.
S. S. Gordon Castle, N. 12° 50′, E. 120° 45′*	29.80	756.9	80.5	26.9	89	sse.			1-3		10		sse.				nw.	raining.
S. Armenia, N. 32° 35′, W 133° 35′*	30.26	768.6	62	16.7	66	ne.			3		7			0	0	long	nw.	fair.
Bk. Bore, Macassar, Celebes Id*†	30.23	767.8	86	30.0		ese.			1									
S. Grecian, N. 15° 48′, E. 133° 10′†	29.97	761.2	83	28.3	87	e.			5		2		e.	0	0	sm'h		clear.
S. S. Radnorshire N. 5° 12′, E. 100° —′ *†	29.80	756.9				calm			0		7			0	0	sm'h		fair.
S. Titan, N. 31° 58′, W. 139° 23′*†	30.40	772.1	68	20.0	90	ene.			4		9		ene	0	0	long	nw.	cloudy.
Bk. Xenia, N. 24° 26′, E. 122° 15′			85	29.4		sw.			2		8		sw.	2 h'r	2 h'r	chop	nne.	cloudy.
U. S. S. Ranger, N. 15° 02, W. 92° 50′	29.89	759.2	81	27.2	87	nne.			3		2			0	0	long	sw.	hazy.
District No. 4—South Pacific.																		
H. M. S. Espiegle, S. 17° 55′, E. 176° 55′	30.02	762.5	76	24.4	77	e.			3		5					2	ese.	d. clouds.
H. M. S. Kingfisher, S. 17° 32′, W. 149° 34′	29.92	760.0	77	25.0		e.			1		4							d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	30.03	762.7	57	13.9		ese.			2							2	ese.	d. clouds.
H. M. S. Nelson, S. 33° 40′, E. 151° 50′	29.85	758.2	63	17.2	94	ese.			3		7	nw.				3	s.	d clouds.
U. S. S. Iroquois, Valparaiso, Chili	30.16	766.1	55	12.8	87	ese.			2		5					sm'h		fair.
U. S. S. Lackawanna, S. 37° 10′, W. 123° 50′*	29.95	760.7	56	13.3	75	se.			6		10		e.			mod.	e.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	64	17.8	83	nw.			1		10							cloudy.
U. S. S. Pensacola. Callao, Peru*	29.92	760.0	65	18.3	84	nw.	2	0.9			10			0	0			cloudy.
U. S. S. Wachusetts, S. 14° 19′, W. 170° 31′	29.88	758.9	81	27.2	91	se.			1		2		se.			long	se.	clear.
S. S. Australia, S. 4° 54′, W. 168° 20′	29.94	760.5	82	27.8	96	se.			4		1		se.	3 h'r	3 h'r	sm'h	e.	clear.
S. S. City of Sydney, Sydney, N. S. W *†	30.00	762.0	56	13.3	81	sw.			2		4		sw.	0	0			fair.
S. S. Zealandia, S. 33° 59′, E. 165° 12′	30.10	764.5	67	19.4	95	var.			2		0					sm'h		clear.
S. David Crocket, S. 18° 17′, W. 106° 18′*	29.97	761.2	70	21.1	85	ene.			6		8		ene.	8 h'r	8 h'r	mod.	ese.	showery.
H. M. S. Lark, S. 27° 08′, E. 153° 22′	30.07	763.8	65.3	18.5		calm			0		2					sm'h		d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.68	753.9	88	31.1		e.			1		4	e.						d. clouds
H. M. S. Furyalus, Trincomalee, Ceylon	29.68	753.9	91	32.8	74	sw.			1		4							d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.98	761.5	77	25.0	91	se.			1		5	sse.				3	sse.	d. clouds.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.78	756.4	84	28.9	79	ssw.			3		1	s.						blue sky.
H. M. S. Woodlark, off Bushire, Persia	29.70	754.4	88	31.1	73	w.			2		8	nw.				3	nw.	misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony*	29.56	761.0	62	16.7	83	w.			6		10		w.			long		cloudy.
U. S. S. Juniata, Kurrachee, India	29.68	753.9	84	28.9	100	wsw.			4		5		wsw.	0	0	sm'h		hazy.
S. S. Salerno, N. 12° 55′, E. 43° 19′†	29.83	757.7	85	29.4		s.			3		2		se.	0	0	sm'h	s.	clear
Bk. Alpheus Marshall, S. 35° 30′, E. 24° 27′*†	29.77	756.1				w			8		7		w.	1 h'r	1 h'r	r'gh	s.	threatening.
S. Annie M. Law, S. 24° 10′ E. 62° 30′*†	30.13	765.3	69	20.6		se.			1		0			0	0	mod.	sw.	clear.
Bk. Ceylon, S. 31° 51′, E. 33° 12′ *†	29.06	738.1	80	26.7	82	ne.			3		1		nne.	0	0	long	nne.	clear.
S. Dynomine, S. 34° 00′ E. 28° 10′	29.86	758.4	67	19.4	89	wsw.			7		9			0	0	mod.	sw.	threatening
S. S. Malabar, N. 5° 40′, E. 95° 32′						var.					10			0	0	sm'h		cloudy.
Bk. Pilgrim, Samarang, Java, Oceania *†	29.85	758.2				ese.			2		2		ese.	0	0			clear.
S. St. David, S. 20° 47′ E. 101° 07′ *†	30.00	762.0	78.3	25.7	95	e.			4		6		se.	3 h'r	3 h'r	long	ssw.	drizzling
S. S. Foscolio, N. 4° 23′ E. 53° 40′ †	29.89	759.2				wnw.			2		2		nw.	0	0	sm'h	s.	clear.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 20, 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.07	763.8	78.1	25.6	84	s.			1		0			0	0	clear	Malaterre.
Algiers			30.03	762.7	83.1	28.4	23	w.			6		0			0	0	clear	Thève.
La Galle			29.97	761.1	79.2	26.2	40	nw.			1		1			0	0	very fair	Fonfrède.
Tunis			29.93	760.2															Jacques.
Saida			30.08	764.1															Pérès.
Tebessa			30.01	762.3	75.2	24.0	33	n.			1		0			0	0	clear	St. Martin.
Geriville					76.3	24.6	9	nnw.			1		4			0	0	cloudy	Forfert.
Laghouat			30.02	762.6	85.6	29.8	18	ne.			1		0			0	0	clear	Abraham.
Biskra			30.01	762.3	91.0	32.8	23	n.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.36	771.1	44.0	6.7	82	calm	0	0			0			0.004	0.1	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.18	766.6	30.27	768.8	47.4	8.6	94	w.	2	0.9			7			0.08	2.0	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.28	74.36	29.83	757.6	49.6	9.8	95	ne.			2		10			0.724	18.4	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.93	734.8	29.70	754.3	47.8	8.8	71	sw.	11.2	5.0			10			0.217	5.5		Dr. Wierzbiski
Eperies	28.80	731.4	29.66	753.4	56.1	13.4	42	nw.			2		8 s			0.031	0.8		Julius Mikolik.
Gratz	28.56	725.4	29.80	757.0	52.9	11.6	83	sw.			2		10			0.106	2.7		Andreas Rospini.
Hermannstadt	28.35	720.1	29.78	756.5	49.6	9.8	89	nnw.			1		10			0.583	14.8	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.52	724.3	29.86	758.4	49.5	9.7	71	nw.			3		8			0.016	0.4	cloudy	The Staff.
Lemberg	28.67	728.2	29.65	753.0	53.4	11.9	55	nw.			5		9			0.028	0.7		Dr. T. Stanecki.
Neu Schmecks	26.30	668.1	29.62	752.4	50.0	10.0	37	calm			0		2			0	0		Dr. V. von Szontagh.
Pola	29.52	749.8	29.63	752.6	63.5	17.5	58	ene.			6		10			0	0		I. R. Hydrographic Office.
Szathmar	29.25	743.0	29.71	754.5	56.1	13.4	54	sw.			4		10			0	0		Joseph Midlinszky, S. J.
Szegedin	29.51	749.6	29.79	756.7	54.0	12.2	79	w.			1		10			0.031	0.8		Karl Stancel.
Trieste	29.56	750.7	29.65	753.2	62.6	17.0	39	ne.			5		9			0.024	0.6		Royal Academy.
Vienna	29.11	739.3	29.82	757.4	53.4	11.9	53	w.			3		2			0.316	8.8		I.-R. Central Met. Obs'y.
British.																			
Aberdeen	29.98	761 5	30.08	764.0	47.3	8.5	59	ese.	11	4.9			2			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.82	757.4	30.06	763.5	54.0	12.2	89	w.	1	0.4									S. Call.
Bidston, Liverpool Obs'y			30.05	763.3	51.0	10.6	98	e.	5	2.2			10					overcast	John Hartnup.
Bolton, Sharples	29.50	749.3	30.03	762.7	50.9	10.5	82	se.	3	1.3			10					gloomy	Thomas Mackereth.
Bradford, Yorkshire																0	0		McLandsborough & Preston.
Bridgetown, Barbadoes	30.06	763.5	30.08	764.0	83	28.3	71	ne.			1		3					d. clouds	Corpl. W. I. Cull, A.H.C.
Cardington	29.95	760.7	30.05	763.3	57.0	13.9	66	ne.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	29.91	759.7	30.04	763.0	54.3	12.4	71	e.			1		10					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.87	758.7	30.10	764.5	57.3	14.1	72	sse.			1		6					d. clouds	The Staff.
Fort Napier, Natal	27.82	706.6	30.04	763.0	61.0	16.1	85	e.			1		10					overcast	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.60	751.8	29.83	757.7	82.0	27.8	75	sw.			1		2						Sergt. C. E. Keane.
Galway, Queen's College	29.99	761.7	30.02	762.5	55	12.8	81	w.			1		5			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.85	758.2	29.90	759.4	79.8	26.6	92	w.			1		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.77	756.1	29.97	761.2	55.2	12.9	59	se.			2		5					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.87	758.7	30.04	763.0	53.0	11.7	80	ese.			1		10					overcast	The Staff.
Guernsey	29.78	756.4	30.07	763.8	56.5	13.6	78	nw.			1		7					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.02	762.5	30.06	763.5	57.0	13.9	63	nw.	4	1.8			10					threatening	The Staff.
Leicester, Museum	29.90	759.4	30.16	766.1	52.5	11.4	69	ne.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.87?	758.7?	29.94?	760.5?	69.2	20.7	86	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.82	757.4	29.86	758.4	77.2	25.1	65	nw.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.53	750.0	30.05	763.3	53.1	11.7	82	ne.			1		10					raining	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.82	757.4	30.04	763.0	54.6	12.6	86	s.			1		10					overcast	The Staff.
Plymouth	29.99	761.7	30.06	763.5	61.6	16.4	69	wsw.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.96	761.0	30.06	763.5	50.1	10.1	68						2					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.66	753.4	29.72	754.9	68.6	20.3	72	s.			1		1					blue sky	W. H. Lyne.
Sheffield	29.79	756.7	30.07	763.8	55.0	12.8	74	calm			0		10			0.01	0.3	overcast	W. F. Cooper.
Siloth Rectory	30.01	762.2	30.04	763.0	55.5	13.1	72	sw.			2		10			0.015	0.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.06	763.5	54.2	12.3	72	se.	3	1.3			9					d. clouds	W. C. Carlisle.
Truro, Royal Institution	30.01	762 2	30.14	765.5	60	15.0	65	w.			4		7					d. clouds	W. Newcombe.
Valencia, Observatory	30.07	763.8	30.10	764.5	54.9	12.7	67	nw.	7	3.1			9					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.40	746.7	29.80	756.9	68.7	20.4	56	w.	19.5	8.7						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.96	761.0	30.00	762.0	55	12.8	86	s.	10	4.5		0	8 s		sw.	0	0	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.86	758.4	29.92	760.0	57	13.9	77	sw.	5	2.2			10 s		sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.41	747 0	29.60	751.8	59.0	15.0	66	sw.			1		10 s			inap.	inap.	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.83	757.7	29.88	758 9	47.0	8.3		calm			0	5 cs	0			0	0	d. clouds	H. A. Johnson.
Father Point, Quebec*	29.65	753.1	29.67	753.6	49	9.4	89	sw.	38	17.0			hz.			0	0	hazy	J. McWilliams.
Fort Garry, Manitoba*	29.35	745.5	30.22	767.6	34	1.1	89	ne.	7	3.1		0	0			0	0	clear	James Stewart.
Fredericton, N. B	29.87	758.7	29.94	760.5	53.2	11.8	87	e.	5	2.2			10 s			0	0	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.53	724.6	29.60	751.8	57.0	13.9	100	calm	0	0			10 n			0.16	4.1	raining	Jas. Grant.
Halifax, N. S*	29.90	759.4	30.03	762.7	47	8.3	96	se.	5	2.2			fg.			0.124	3.1	foggy	A. Allison.
Hamilton, Ontario	29.24	742.7	29.62	752.3	61.7	16.5	86	sw.			2	5 ck	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.29	744.0	29.62	752.3	56	13.3	55	s.	10	4.5			10 ks		W.	0.01	0.3	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.04	763.0	30.08	764.0	56.0	13.3	87	sw.			4		10 n			0	0	overcast	C. H. Rigby.
Montreal, Quebec*	29.46	748.3	29.66	753.4	59	15.0	62	s.	16	7.2			10 n			inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.36	745.7	29.60	751.8	58.2	14.6	64	sw.			2		10 ks			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	28.87	733.3	29.56	750.8	46	7.8	100	w.	10	4.5			fg.			0.31	7.9	foggy	Rev. R. Mosley.
Peterboro, Ontario	28.86	733.0	29.55	750.6	69.7?	20.9?	61	sw.			1	5 k	0			0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	28.95	735.3	29.63	752.6	56	13.3	94	sw.	5	2.2		5 c	0		sw.	0.09	2.3	fair	H Morgan.
Port Stanley, Ontario	29.01	736.8	29.64	752.8	52	11.1	94	sw.	5	2.2			5 k		sw.	0.06	1.5	fair	M. Payne.
Quebec, Quebec*	29.38	746.2	29.72	754.9	59	15.0	75	n.	1	0.4		5 cs	5 ks	sw.	w.	0	0	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.06	738.1	29.51	749.5	56	13.3	93	e.	2	0.9			10 cs		sw.	0.20	5.1	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.83	757.7	29.88	758.9	48	8.9	96	se.	6	2.7			10			0.03	0.8	foggy	
St. John, N. B	29.77	756.1	29.94	760.5	54.0	12.2	93	se.	4	1.8			10 n			0.130	3.3	raining	G. Murdock, C. E.
Saint John's, N. F	30.08	764.0	30.33	770.4	50	10.0	79	s.			2	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F			30.20	767.1	41.0	5.0		s.			4					0	0		The Commandant
Saugeen, Ontario*	28.90	734.0	29.62	752.3	44	6.7	96	n.	4	1.8			10 s			0.25	6.3	cloudy	
Stratford, Ontario	28.34	719.8	29.58	751.3	57.9	14.4	93	sw.	7	3.1			10 s			0.153	3.9	d. clouds	C. J. Macgregor, M A
Sydney, C. B*	30.06	763.5	30.12	765.0	45	7.2	96	sw.	3	1.3			10 n			0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.23	742.4	29.61	752.1	55	12.8	96	sw.	4	1.8		0	8 ks		sw.	0.10	2.5	foggy	Magnetic Observatory.
Windsor, N. S	29.87	758.7	29.97	761.2	54.5	12.5	90	se.	1	0.4			10 ks			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.60	726.4	29.62	752.3	63.0	17.2	80	sw.	12	5.4		6 k	0	w.		0.25	6.3	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.83	757.7	29.89	759.2	58	14.4	100	se.	9	4.0			fg			0.02	0.5	foggy	Lt. F. E. Wilmot, R. N
London, Ontario	28.73	729.7	29.60	751.8	59.7	15.4	88	sw.			1		9 ks			0.27	6.9	d. clouds	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.18	766.6	30.21	767.3	64.0	17.8	77	e.	11.0	4.9		0	2 k			0.060	1.5	fine	John Du'hje.
Springbok Fontein	27.92	709.2			69	20.6	27	se.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.30	642.5																	A. Gueluy.
Tchang-kia-tchouang	29.82	757.4	29.93	760 2	73.9	23.3	56	se.			1		1			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.89	759.1	29.91	759.7	64.6	18.1	97	e.	6.0	2.7			10 n			0.598	15.2	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.60	751.8	29.65	753.0	52.2	11.2	66	nnw.	16	7			7						Oversergent Fischer.
Fanoe	29.77	756.2	29.79	756.7	54.7	12.6	95	wnw.			6		3						Overloerer Lauridsen.
Godthaab, Greenland	29.73	755.1	29 77	756.2	33.8	1.0	75	s.			2		8						S. Kleinschmidt.
Jacobshavn, Greenland	29.70	754.4	29.75	755.6	33.4	0.8		s.			4		2					foggy	
Stykkisholm, Iceland	29.49	749.1	29.54	750.2	46.0	7.8	88	s.			6		8					raining	A. O. Thorlacius.
Thorshavn	29.97	761.2	29.99	761.8	47.3	8.5	79	sse.	16	7			10						Overloerer Bergh.
Vestervig	29.70	754.3	29.79	756.6	52.5	11.4	60	nw.			4		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.75	755.6			83.7	28 7		w.	4.7	2.1		0	6 k			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.39	746.5	30.01	762.3	74.8	23.8	65	calm			0	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.66	753.3	30.21	767.3	64.0	17.8	60	ssw.			1	0	2 s		nne.	0	0	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School	29.89	759.3	30.15	765.9	49.5	9.7	83	ne.			2	0	0			0	0	clear	M. Fénéon, Command't.
Avignon, Normal School	29.78	756.5	29.86	758.5	71.6	22	43	nnw.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.47	748.6	30.03	762.8	54.1	12.3	79	sw.			1		10		wnw.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.80	757.0	30.07	763.7	59.4	15.2	41	e.			1		2		n.	0	0	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	29.06	738.1	29.94	760.4	61.5	16.3	52	n.			1		kn		nw.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.76	755.8	30.01	762.2	71.4	21.9	37	nnw.			1		1			0	0	almost clear	M. Rayet, Director.
Bourges, Normal School	29.46	748.2	30.00	762.0	62.6	17	52	nw.			2		k		nw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.85	758.2	30.10	764.4	66.9	19.4	68	nw.			1		2		nw.	0	0		M. de Kermarès, Dir.
Caen, Normal School	29.98	761.4	30.05	763.2	63.3	17.4	57	nw.			2		8		nw.	0	0	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.69	754.2	30.01	762.3	59.0	15.0	73	nnw.			2		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.50	749.2	30.00	762.1	55.4	13	47	nw.			1		8			0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.64	727.5	29.97	761.2	63.5	17.5	56	n.			1		8		nw.	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.16	740.6	30.00	761.9	58.3	14.6	67	calm			0		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.16	740.6	30.01	762.3	55.6	13.1	51	nw.			1		n	nw.	nw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.43	696.6	29.87	758.7	70.5	21.4	44	s.			3	0	3 s		s.	0	0		M. Jeangirard, Director.
Grénasque, du Rhone	28.85	732.9	29.95	760.7	70.2	21.2	44	nw.			4		3		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.14	740.3	29.89	759.3	63.0	17.2	52	nw.			3	ck	0	nw.		0	0		M. Ablard, Director.
Guéret, Normal School	28.45	722.6	29.89	759.1	63.0	17.2	50	nw.			1		2			0	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.96	761.0	30.23	767.8	66.9	19.4	58	nw.			2		5		nw.	0	0	cloudy	M. Olitrault, Director.
Lescar, Normal School	29.41	747.1	29.99	761.8	73.4	23.0	41	nnw.			1	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.98	761.6	30.09	764.2	64.8	18.2	66	sw.			1		2	sw.		0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.9	29.98	761.5	58.8	14.9	53	nnw.			2		10 n		nnw.	0	0	covered	M. André, Director.
Mans, Normal School	29.74	755.4	30.05	763.2	61.3	16.3	66	n.			3		5		nw.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.51	749.6	29.78	756.3	72.5	22.6	61	nw.			4		5		nw.	0	0		M. Stephan, Director.
Montlouis	24.83	630.7	29.67	753.7	66.2	19.0	24	sw.	15.0	6.7			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.69	754.1	29.81	757.2	80.6	27	50	n.			3		2		nnw.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.23	742.4	30.02	762.4	53.2	11.8	65	wnw.			1		kn			0	0		M. Hasse, Director.
Nantes, Observatory	29.93	760.3	30.10	764.4	67.5	19.7	54	ese.			0–1	c	4 k		nne.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.78	756.4	29.89	759.1	79.3	26.3	27	n.	13.0	5.8			2	ne.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.33	541.7			42.8	6.0		e.			1		1		e.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.00	736.5	29.94	760.4	65.8	18.8	47	n.			1	0	5 k			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.14	638.5			43.5	6.4	88	nw.			2		10			0	0	covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.00	762.1	30.04	762.9	75.2	24.0	51	ne.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.78	756.4	29.99	761.8	69.8	21	55	nw.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.77	705.4	29.84	757.9	70.2	21.2	41	ne.			3	0	1		s.	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.85	758.3	29.90	759.5	53.2	11.8	90	nnw.			1		5	nw.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.87	758.8	30.04	762.9	57.2	14.0	60	n.			1		10		nw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.32	744.8	30.05	763.2	71.8	22.1	52	nw.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.86	758.5	30.04	763.0	67.6	19.8	46	nnw.			1	1 c		n.	nnw.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.54	750.3	30.03	762.8	59.0	15.0	52	nw.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.88	759.0	30.03	762.8	75.4	24.1	46	w.	5.8	2.6		c	1 k			0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.49	723.7	29.95	760.7	49.3	9.6	50	nw.			6		6	nw.		0.008	0.2		Prof. Jnedt.
Bamberg	29.03	737.3	29.87	758.7	54.1	12.3	50	nw.			3	0	5 k		w.	0.039	1.0		Prof. Dr. Hoh.
Berlin	29.55	750.5	29.69	754.2	48.4	9.1	77	w.			4		9			0.311	7.9	rain & sleet	Meteorological Institute.
Breslau	29.19	741.3	29.71	754.6	48.2	9.0	65	w.			7		10			0.020	0.5	sprinkling	Royal University Obs'y
Carlsruhe	29.52	749.7	29.97	761.2	58.3	14.6	37	w.			1		9	nw.		0	0		Albert Senz.
Cassel	29.16	740.6	29.87	758.7	54.7	12.6	41	nw.			4		8	nw.		0.087	2.2		Dr. H. Möhl.
Frankfort-on-the-Main			29.96	761.0	49.5	9.7	83	nw.			2		7			0.039	1.0		Physical Society.
Friedrichshafen	28.56	725.4	29.97	761.2	55.8	13.2	74	sw.			4		6	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.73	755.2	29.82	757.5	45.3	7.4	94	wnw.			5		8			0.236	6.0	rain squall	E. Preller.
Kiel	29.74	755.3	29.75	755.7	54.3	12.4	52	nw.			5		6			0.024	0.6		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.37	746.1	29.79	756.7	52.7	11.5	58	wnw.			3		8	wnw.				rainy	H. Leppig, Asst.
Magdeburg	29.58	751.3	29.77	756.1	47.3	8.5	87	w.			5		9	nw.		0.016	0.4	raining	Dr. Assmann.
Memel	29.39	746.6	29.44	747.7	42.6	5.9	93	nw.			5		10						Issermann.
Munich	28.10	713.8	29.96	761.0	50.9	10.5	54	nw.			2		5	w.		0.087	2.2		Central Station.
Neufahrwasser	29.52	749.8	29.54	750.2	46.4	8.0	72	nw.			4		10			0.028	0.7		A. Lothes.
Neustadt, Palatinate	29.39	746.6	29.92	759.9	59.0	15.0	34	w.			2		7	w.		0	0		Dicknether.
Stuttgart	29.01	736.8	29.90	759.4	55.4	13.0	35	w.			2		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.71	754.7	29.74	755.3	49.3	9.6	59	wnw.			4	0	8 ks			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.39	746.5	29.77	756.1	72.9	22.7		s.			1.5	1 k	0			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.56	750.9	29.61	752.1	86.2	30.1	83	w.	34.0	15.2			7	e.	w.	0	0	hazy	
Deesa	29.07	738.5	29.52	749.7	110.4	43.6	9	w.	21.0	9.4			0			0	0	blue sky	
Bombay	29.73	755.2	29.77	756.1	88.0	31.1	67	w.	13.0	5.8			3	wsw.	w.	0	0	d. clouds	
Poona, Yarrowda	27.89	708.3	29.69	754.1	91.8	33.2	34	sw.	25.0	11.2			0			0	0	blue sky	
Trichinopoly	29.42	747.3	29.69	754.1	100.7	38.2	29	wnw.	1.0	0.4			0			0	0	blue sky	
Belgaum	27.22	691.4	29.72	754.8	82.3	27.9	57	e.	11.0	4.9			4	e.		0	0	d. clouds	
Lahore	28.63	727.3	29.33	744.9	106.3	41.3	9	nw.	6.0	2.7			0			0	0	blue sky	
Roorkee	28.50	723.8	29.34	745.2	104.9	40.5	19	s.	2.0	0.9			2		s.	0	0		
Agra	28.83	732.4	29.36	745.6	113.1	45.0	12	s.	4.0	1.8			0			0	0	blue sky	
Nagpur	28.48	723.5	29.46	748.3	110.7	43.7	9	nw.	7.0	3.1			4		w.	0	0	d. clouds	
Jubbulpore	28.19	716.0	29.46	748.3	108.5	42.5	6	n.	10.0	4.5			2		n.	0	0	d. clouds	
Lucknow	29.07	738.3	29.42	747.2	107.4	41.9	33	ssw.	1.0	0.4			0			0	0	blue sky	
Allahabad	29.12	739.7	29.42	747.2	106.1	41.2	21	nne.	2.0	0.9			0			0	0	blue sky	
Patna	29.32	744.8	29.50	749.4	91.2	32.9	53	ne.	11.1	5.0			0			0	0	blue sky	
Hazaribagh	27.53	699.3	29.46	748.3	93.7	34.3	24	ese.	12.1	5.4			2			0.02	0.5	drizzling	
Cuttack	29.45	748.1	29.53	750.1	90.1	32.3	68	wnw.	5.0	2.2			2			0	0	d. clouds	
Calcutta, Alipore	29.55	750.6	29.57	751.1	88.2	31.2	68	s.	14.0	6.3			2		ssw.	0.01	0.3	d. clouds	
Dhubri	29.54	750.4	29.66	753.4	78.9	26.1	79	ese.	12.6	5.6			0			0	0	blue sky	
Chittagong	29.60	751.7	29.68	754.0	83.7	28.7	80	e.	7.6	3.4			0			0	0	blue sky	
Sibsagar	29.40	746.9	29.74	755.4	78.5	25.8	84	ne.	2.0	0.9			0			0.53	13.5	blue sky	
Jeypore	28.02	711.6	29.37	745.9	108.5	42.5	13	wnw.	31.0	13.8			3		wnw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec.	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.15	715.0	.....	.....	101.5	38.6	29	nw.	12	5.4	.....	3 c	2	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.96	761.0	77.3	25.2	85	ssw.	11.2	5.0	.....	.....	10	.....	sw.	0.77	19.6	drizzling	
ITALIAN.																			
Udine	29.29	744.0	29.69	754.1	61.7	16.5	50	e.	8.1	3.6	.....	.....	9	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.10	739.1	29.60	751.9	78.6	25.9	33	ne.	3.8	1.7	.....	.....	8	sse.	.....	0	0	.....	Prof. G.V.Schiapparelli.
Padua	29.56	750.7	29.66	753.4	67.8	19.9	48	ene.	10.8	7.5	.....	.....	10	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.71	729.1	29.58	751.4	77.4	25.2	42	nnw.	4.3	1.9	.....	.....	5	ne.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.47	748.5	29.66	753.3	68.7	20.4	63	sw.	4.9	2.2	.....	.....	10	se.	.....	0	0	.....	Prof. G. M. Garibaldi
Mondovi	27.75	704.9	29.61	752.2	76.3	24.6	27	ne.	.....	.....	2	.....	4	wnw.	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.54	750.3	29.59	751.5	70.2	21.2	77	ne.	8.7	3.9	.....	.....	9	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.38	746.2	29.63	752.6	73.4	23.0	56	sw.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.52	749.9	29.61	752.1	69.6	20.9	62	sw.	1.8	0.8	.....	.....	10	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.49	749.0	29.66	753.4	73.8	23.2	49	sw.	17.4	7.8	.....	.....	8	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.42	747.3	29.67	753.6	74.8	23.8	43	ese.	20.6	9.2	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.83	732.3	29.70	754.3	76.6	24.8	69	se.	2.5	1.1	.....	.....	2	s.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.53	750.0	29.72	754.9	73.2	22.9	41	nw.	.....	.....	6	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.48	748.7	29.72	755.0	75.9	24.4	36	ne.	4.9	2.2	.....	.....	2	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.65	753.0	29.69	754.1	73.9	23.3	52	nne.	4.3	1.9	.....	.....	3	wsw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.18	741.1	29.69	754.0	68.9	20.5	75	sw.	2.5	1.1	.....	.....	5	n.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	21.98	558.3	.....	.....	31.1	− 0.5	72	sw.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	22.00	558.9	.....	.....	40.8	4.9	66	nw.	.....	.....	6	.....	8	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.08	764.1	30.11	765.0	58.1	14.5	80	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. Hattori.
Awomori	30.11	764.8	30.15	765.8	49.1	9.5	93	n.	2.1	0.9	.....	8 cs	0	.....	.....	0	0	cloudy	K. Ogawa.
Hamamatsu	30.10	764.5	30.13	765.2	64.3	17.9	80	e.	.....	.....	2	2 ck	6 s	e.	e.	0	0	cloudy	
Kagoshima	29.97	761.2	29.98	761.5	66.0	18.9	78	ne.	.....	.....	2	.....	10 s	.....	nw.	0.402	10.2	cloudy	G. Miyanohasa.
Kioto	29.93	760.3	30.11	764.7	64.4	18.0	58	ne.	4.8	2.1	.....	9 ck	0	w.	.....	0	0	fair	M. Tojima.
Miasaka	30.01	762.2	30.04	762.9	64.8	18.2	93	ne.	.....	.....	2	.....	10 n	.....	e.	1.122	28.5	raining	K. Masusaki.
Miyako	30.09	764.2	30.20	767.0	48.7	9.3	92	wsw.	1.1	0.4	.....	0	0	.....	.....	0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.79	756.6	29.99	761.7	66.5	19.2	83	calm	0	0	.....	7 c	2 s	w.	.....	0	0	cloudy	S. Takehayashi.
Niigata	30.04	763.0	30.08	764.0	58.3	14.6	82	ene.	1.5	0.6	.....	0	0	.....	.....	0	0	clear	M. Morita.
Nobiru	30.17	766.3	30.19	766.7	53.9	12.2	98	s.	1.5	0.7	.....	8 cs	0	.....	.....	0	0	fair	H. Midaushina.
Numazu	30.11	764.8	30.15	765.7	62.4	16.9	73	ne.	.....	.....	4	1 c	6 ks	.....	ne.	0	0	cloudy	R. Kaneda.
Osaka	30.06	763.5	30.07	763.9	64.8	18.2	73	ne.	4.6	2.1	.....	8 cs	0	w.	.....	0	0	fair	H. Omura.
Tokei Obs'y, Yeddo	30.09	764.3	30.17	766.2	63.1	17.3	71	se.	4.4	2.0	.....	5 c;cs	0	w.	.....	0	0	fair	The Staff.
Wakayama	30.01	762.2	30.06	763.5	64.5	18.1	78	e.	inap.	inap.	.....	10 ck;cs	0	w.	.....	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.95	760.7	30.14	765.5	75.1	23.9	66	e.	17.5	7.8	.....	1 cs;c	4 k;ks	w.	ese.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.0	65.3	18.5	73	sw.	inap.	inap.	.....	9 ck	0	s.	.....	0.531	13.5	cloudy	Prof. Vicente Fernandez.
Leon	24.32	617.7	29.94	760.5	61.5	16.4	87	ssw.	2.0	0.9	.....	6 c	4 ck	se.	se.	0.045	1.2	dense fog	Prof. M. Leal.
Mazatlan	29.72	751.9	29.98	761.5	62.5	16.9	88	w.	0	0	.....	10 cs	0	.....	.....	0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	61	16.1	100	e.	11.3	5.1	.....	6 c	0	var.	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.06	763.6	30.06	763.6	53.6	12.0	.....	nnw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Groningen	29.89	759.2	29.95	760.6	48.7	9.3	.....	nw.	.....	.....	4	.....	.....	.....	.....	0.035	0.9	.....	
Helder	30.00	762.0	30.00	762.0	48.7	9.3	.....	nw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.04	763.0	30.04	763.0	54.1	12.3	55	nnw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	29.98	761.4	30.02	762.6	54.1	12.3	54	nnw.	.....	.....	3	.....	5	.....	.....	0.004	0.1	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.84	757.9	.....	.....	80.2	26.8	80	nne.	0	0	.....	.....	1	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.76	755.9	29.82	757.5	50.7	10.4	53	nnw.	25	11	.....	.....	2	.....	.....	0	0	.....	
Brono	29.82	747.3	29.85	758.3	53.2	11.8	65	n.	.....	.....	4	.....	6	.....	.....	0	0	.....	
Christiania	29.53	750.0	29.67	753.7	57.4	14.1	28	nnw.	16	7	.....	.....	6	.....	.....	[illegible]	[illegible]	.....	
Gjæsvær	29.92	759.9	29.94	760.5	43.0	6.1	.....	e.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	
Lodingen	29.79	756.7	29.84	757.9	48.7	9.3	54	ne.	.....	.....	2	.....	1	.....	.....	0	.....	.....	
PORTUGUESE.																			
Angra, Azores	29.56	750.8	29.72	754.8	60.3	15.7	85	n.	15.4	6.9	.....	.....	5	.....	.....	0.177	4.5	.....	Dr. J. A. Sampaio.
Campo Major	29.01	736.9	29.97	761.2	79.2	26.2	47	s.	1.3	0.6	.....	.....	3	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.84	758.0	29.93	760.2	65.5	18.6	84	ssw.	4.9	2.2	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.68	753.8	30.01	762.2	70.5	21.4	35	ene.	4.9	2.2	.....	.....	5	ssw.	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.63	752.6	29.70	754.4	60.1	15.6	89	nw.	3.8	1.7	.....	.....	10	.....	.....	0.535	13.6	raining	
Saint Paul de Loando	29.61	752.2	29.81	757.2	79.9	26.6	95	nw.	0.7	0.3	.....	.....	6	se.	.....	0	0	.....	
Serra da Estrella	25.35	643.8	29.93	760.2	63.5	17.5	37	sw.	9.4	4.2	.....	.....	4	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.83	732.3	29.87	758.7	67.5	19.7	44	ene.	7	3	.....	3 c	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.62	752.3	29.64	752.8	48.9	9.4	63	ne.	13	6	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	29.91	759.6	29.81	757.2	84.0	28.9	66	n.	13	6	.....	.....	9 k	.....	.....	0	0	light clouds	
Astrakhan	29.87	758.8	29.79	756.7	84.9	29.4	28	w.	16	7	.....	0	5 k	.....	.....	0	0	.....	Capt. Wisganow.
Baku	29.90	759.4	29.85	758.2	76.3	24.6	61	ssw.	9	4	.....	3 cs	0	.....	.....	0	0	.....	
Barnaul	29.56	750.9	30.06	763.5	54.3	12.4	30	wnw.	9	4	.....	.....	5	.....	.....	0	0	light clouds	Meteorological Obs'y
Bielosersk	29.04	737.0	29.50	749.2	55.8	13.2	75	n.	2	1	.....	0	8 ks	.....	.....	0.012	0.3	.....	
Dorpat	29.11	739.3	29.34	745.3	55.0	12.8	59	ese.	4	2	.....	.....	10 k	.....	.....	0.047	1.2	.....	Observatory.
Ekaterinburg	28.92	734.5	29.85	758.2	63.5	17.5	43	se.	9	4	.....	10 c	0	.....	.....	0	0	light clouds	Meteorological Obs'y
Elisawetgrad	29.25	743.0	29.69	754.0	68.9	20.5	40	wsw.	11	5	.....	.....	9 n;s	.....	.....	inap.	inap.	.....	
Irkutsk	28.18	715.7	29.78	756.4	57.2	14.0	43	sse.	.....	.....	2	.....	4	.....	.....	0	0	.....	
Kasalinsk	29.22	742.1	29.39	746.6	84.6	29.2	45	sw.	9	4	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.29	744.0	29.54	750.4	77.2	25.1	38	sse.	18	8	.....	.....	9 k;ks	.....	.....	0.173	4.4	.....	Observatory.
Kem	29.72	754.8	29.77	756.1	33.8	1.0	75	ne	45	20	.....	.....	10 k	.....	.....	0.098	2.5	heavy cl'ds.	
Kertch	29.76	755.9	29.78	756.5	67.3	19.6	70	calm	0	0	.....	0	5 k	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	28.98	736.2	29.61	752.0	60.3	15.7	37	w.	11	5	.....	.....	9 ks;n	.....	.....	0	0	.....	Observatory.
Koslov	29.08	738.6	29.60	751.7	69.3	20.7	47	sw.	16	7	.....	0	3 k	.....	.....	0	0	.....	
Libau	29.33	745.0	29.35	745.6	41.0	5.0	97	wnw.	16	7	.....	.....	10	.....	.....	0.358	9.1	raining	E. Quass.
Lugan	29.48	748.9	29.60	753.4	76.5	24.7	49	sw.	22	10	.....	.....	8	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.04	737.5	29.49	749.0	62.8	17.1	39	sw.	8.9	4.0	.....	.....	9 ks	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.65	753.2	29.73	755.1	72.1	22.3	56	s.	22	10	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.67	753.5	29.75	755.7	38.5	3.6	85	ne.	4	2	.....	.....	10	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.69	754.1	29.83	757.7	76.5	24.7	43	s.	3.4	1.5	.....	0	1 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.52	749.8	29.85	758.1	90.5	32.5	15	wnw.	4.5	2.0	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.29	743.9	29.48	748.8	50.5	10.3	86	ne.	7	3	.....	.....	10	.....	.....	0.799	20.3	light clouds	Dr. Bergmann.
Pinsk	29.06	738.2	29.56	750.8	50.0	10.0	62	wsw.	13	6	.....	0	8 ks	.....	.....	0.114	2.9	.....	
Poti	29.76	756.0	29.80	756.8	67.3	19.6	94	e.	4	2	.....	.....	10 n	.....	.....	0	0	.....	
St. Petersburg	29.41	747.0	29.43	747.6	52.2	11.2	54	s.	4	2	.....	.....	10 s;n	.....	.....	0.028	0.7	.....	Central Physical Obs'y.
Samarkand	27.49	698.2	29.84	757.8	77.5	25.3	52	s.	3.4	1.5	.....	0	8 k	.....	.....	0	0	.....	
Semipalatinsk	29.40	746.8	30.04	762.9	70.3	21.3	39	w.	4	2	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.56	750.9	29.79	756.6	61.2	16.2	74	sw.	16	7	.....	.....	9 n	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Rykhov	29.10	739.0	29.54	750.4	55.9	13.3	52	sw.	31	14			10 kn			0.291	7.4		
Tashkend	28.22	716.9	29.76	756.0	91.0	32.8	21	calm	0	0		0	7 k			0	0	light clouds	Terch, A. M.
Tiflis	28.45	722.6	29.78	756.4	82.9	28.3	29	se.	2	1		0	4 k			0.173	4.4		Physical Observatory.
Vernoe	27.38	695.5	29.74	755.3	80.2	26.8	23	ne.	4	2		0	2 k			0	0		
Viatka	28.99	736.4	29.60	751.8	64.0	17.8	72	s.	2	1			3			0.378	9.6		
Warsaw	29.14	740.1	29.56	750.8	50.0	10.0	63	w.	25	11		0	8 kn			0.205	5.2	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.16	752.1	29.91	759.6	30.9	— 0.6	52	w.	34	15			9			0.232	5.9		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.00	762.0	53	11.7	93	s.			4		10			0	0	foggy	J. Youngclause.
North Unst			30.02	762.5				n.			3		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.84	757.9	29.94	760.5	71.6	22.0	61	se.	1.3	0.6		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.96	760.9	30.02	762.4	76.6	24.8	47	nw.	3.1	1.4		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.10	688.3	29.98	761.5	68.0	20.0	45	sw.	3.1	1.4		2	7	ne.		0	0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.1	29.91	759.6	80.8	27.1	36	sw.	10.5	4.7		0	1			0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.76	756.0	29.90	759.5	90.9	32.7	39	ssw	3.6	1.6		4	5	ene.		0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	29.19	741.3	30.04	763.0	64.4	18.0	78	nw.	7.4	3.3		1 k	0	w.		0	0		Prof. L. G. Frades.
Santiago, Met. Obs'y	29.06	738.0	29.91	759.8	78.3	25.7	53	calm	0	0			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.84	757.9	29.91	759.6	71.4	21.9	80	se.	2.2	1.0		0	k;ks		ne.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.74	755.5	29.80	756.9	81.3	27.4	83	n.	0	0		0	2 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.90	759.5	30.00	762.0	83.1	28.4	54	calm	0	0		2	2	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.80	756.9	29.89	759.2	76.3	24.6	97	calm	0	0		6 cs	3 k	se.	se.	0.354	9.0	d. clouds	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.76	756.0	29.80	757.0	48.6	9.2	36	ne.			6		2			0	0		
Umea	29.70	754.3	29.75	755.6	45.3	7.4	43	nne.			7		5			0	0		
Hernosand	29.62	752.3	29.67	753.6	48.2	9.0	66	ene.			4		3			0.213	5.4		
Stockholm	29.31	744.4	29.48	748.9	42.8	6.0	85	n.			6		10			0.150	3.8		
Wisby	29.34	745.3	29.40	746.8	44.6	7.0	85	nnw.			4		5			0.094	2.4		
Sub-series.																			
Upsala	29.43	747.4	29.51	749.6	39.9	4.4	86	nnw.	21.7	9.7			10			0.083	2.1	raining	S. G. Fineman.
SWISS.																			
Geneva	28.56	725.3	29.97	761.3	57.4	14.1	56	nne.			3		9			0	0	covered	The Observatory.
TURKISH.																			
Constantinople			29.78	756.4	69.1	20.6	64	ne.	9	4.0			0			0	0		The Observatory.
Valona			29.84	757.9	77.5	25.3		sw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.87	758.7	73.9	23.3	73	w.			2		1 k		nw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.53	673.8			69	20.6	97						6 n		w.				Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.69	754.1	29.77	756.1	64.3	17.9	65	s.	8	3.6			10 s		s.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	28.98	736.1	29.64	752.8	46	7.8	83	w.	10	4.5			10 s			0.09	2.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.20	640.1	30.02	762.5	40	4.4	76	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.44	697.0	30.28	769.1	44	6.7	68	sw.	13	5.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.70	729.0	29.87	758.7	68.5	20.3	73	nw.	7	3.1		6 cs	0			0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	29.79	756.7	29.80	756.9	52	11.1	100	ne.	12	5.4			fg.			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	29.67	753.6	29.86	758.4	67	19.4	78	calm	0	0		3 ck	0	w.		0	0	clear	John Healy.
Baltimore, Maryland	29.80	756.9	29.84	757.9	58	14.4	87	e.	2	0.9			10 s			0	0	cloudy	Geo. W Felger.
Barnegat City, New Jersey	29.78	756.4	29.80	756.9	52.4	11.3	96	e.	14	6.3			10s;fg		e.	0.01	0.3	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.74	755.4	29.76	755.9	36.3	2.4		w.	10	4.5		2 ck	7 n		w.	0.01	0.3	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.66	728.0	30.22	767.6	43.0	6.1	83	nw.	5	2.2		0	0			inap.	inap.	clear	A. Pritchard.
Benton, Fort, Montana	27.48	698.0	30.27	768.8	49	9.4	58	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	27.08	687.8	30.26	768.6	38	3.3	65	sw.	2	0.9		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.42	721.9	30.21	767.3	41	5.0	92	nw.	6	2.7		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.75	755.6	29.78	756.4	49	9.4	100	ne.	16	7.2			10s;fg		ne.	0.04	1.0	cloudy	J. T. Elker.
Boise City, Idaho					44	6.7	68	w.	2	0.9		4 cs	0			0	0	fair	J. Kenealy.
Boston, Massachusetts	29.70	754.4	29.80	758.4	48.0	8.9	100	n.	9	4.0			10 n			0.08	2.0	light rain	O. B. Cole.
Brownsville, Texas	29.86	758.4	29.90	759.4	79.0	26.1	91	sw.	2	0.9			10 s		w.	0	0	threatening	M. McCarty.
Buffalo, New York	28.91	734.3	29.65	753.1	53	11.7	88	sw.	6	2.7			10 s		sw.	0.11	2.8	cloudy	W. Finn.
Buford, Fort, Dakota																			F. A. Mellen.
Burlington, Vermont	29.43	747.5	[illegible]	754.9	61.0	16.1	60	s.	15	6.7			10 s		w.	0	0	cloudy	D. N. Farnell.
Cairo, Illinois	29.37	746.0	[illegible]	[illegible]	61.6	16.4	92	ne.	10	4.5			10 n		ne.	1.96	49.8	light rain	W. H. Ray.
Cape Henry, Virginia	29.80	756.9	[illegible]	757.4	56	13.3	100	ne.	7	3.1			fg.			0.02	0.5	dense fog	A. K. Alderson.
Cape May, New Jersey	29.76	755.9	[illegible]	756.4	56.0	13.3	86	e.	8	3.6			fg.			0	0	dense fog	W. E. Smith.
Cape Mendocino, California	29.45	748.0	30.13	765.3	49.5	9.7	100	nw.			2		fg.		nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	29.87	758.7	29.89	759.2	75	23.9	60	n.	3	1.3		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.80	756.9	29.85	758.2	71.0	21.7	84	calm	0	0		9 c	0			0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.99	736.3	29.83	757.7	67.0	19.4	51	e.	1	0.4		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.02	737.1	29.83	757.7	64.0	17.8	84	sw.	1	0.4		6 cs	2 ks	sw.	sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.30	617.2	30.17	766.3	36.3	2.4	82	nw.	6	2.7		0	0			0.02	0.5	clear	E. McGovern.
Chicago, Illinois	29.01	736.8	29.71	754.6	55.4	13.0	59	nw.	6	2.7			10 s			0.01	0.3	cloudy	John Laurens.
Chincoteague, Virginia	29.77	756.1	29.79	756.7	55	12.8	100	e.	9	4.0			10s;fg			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.02	737.1	29.68	753.9	69.0	20.6	84	w.	2	0.9			10 s			0.34	8.6	cloudy	L. Dunne.
Cleveland, Ohio	28.93	734.8	29.66	753.4	65	18.3	78	sw.	10	4.5		5 k	5 k	sw.	sw.	0.13	3.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.30	718.8	30.09	764.3	56	13.3	74	nw.	14	6.3		0	0			0.12	3.0	clear	T. J. Kenan.
Columbus, Ohio	28.83	732.3	29.67	753.6	63	17.2	90	s.	2	0.9			10 s		sw.	0.65	16.5	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.22	716.8	30.12	765.0	55.4	13.0	86	calm	0	0		0	0			0.03	0.8	clear	J. McGlone.
Davenport, Iowa	29.13	739.9	29.77	756.1	51	10.6	72	nw.	9	4.0			10 s		nw.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.37	644.4	30.09	764.3	54	12.2	55	n.	8	3.6		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.55	725.2	30.30	769.6	56	13.3	62	s.	4	1.8		2 c	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.63	651.0	30.15	765.8	48	8.9	61	calm	0	0		0	7 k		w.	0.26	6.6	fair	F. Willson.
Delaware Breakwater, Del.	29.78	756.4	29.80	756.9	54	12.2	100	ne.	8	3.6			fg.			0	0	dense fog	T. S. Townsend.
Denver, Colorado	25.02	635.5	30.18	766.6	46.0	7.8	80	calm	0	0		0	4 k		nw.	0.10	2.5	fair	F. M. Neal.
Des Moines, Iowa	29.00	736.6	29.89	759.2	48	8.9	71	n.	8	3.6			10 s		n.	inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	28.95	735.3	29.65	753.1	61.0	16.1	87	sw.	8	3.6			10 s			inap.	inap.	cloudy	E. R. Brace.
Dodge City, Kansas	27.58	700.5	30.13	765.3	49	9.4	66	nw.	15	6.7		0	6 s		n.	0.26	6.6	fair	J. H. Bryce.
Dubuque, Iowa	29.06	738.1	29.70	755.9	50.3	10.2	66	nw.	6	2.7			10 s		nw.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.16	740.7	29.91	759.7	39	3.9	89	nw.	22	9.8			10 s		nw.	0.01	0.3	light rain	N. B. Conger.
Eagle Pass, Texas	29.33	745.0	30.13	765.3	68.4	20.2	73	nw.	7	3.1		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.57	649.5	30.25	768.3	39	3.9	67	n.	4	1.8		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	29.84	757.9	29.91	759.7	44.0	6.7	96	ne.	6	2.7			fg.		ne.	0.09	2.3	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.38	695.4	30.08	764.0	49	9.4	66	ne.	12	5.4		9 k	0		ne.			cloudy	W. J. Cundall.
El Paso, Texas	26.49	772.8	30.13	765.3	61.0	16.1	48	n.	2	0.9		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.94	735.1	29.66	753.4	66	18.9	78	sw.	6	2.7			10 s		sw.	0.04	1.0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.03	737.3	29.69	754.1	39.0	3.9	82	n.	16	8.0			10 s		nw.	0.57	14.5	cloudy	George Heathcote.
Galveston, Texas	29.88	758.9	29.92	760.0	71	21.7	100	nw.	6	2.7		0	9 ks		nw.	1.69	42.9	thud'r st'rm	E. O'C. MacInerney
Grand Haven, Michigan	29.02	737.1	29.68	753.9	48.0	8.9	86	nw.	7	3.1			10 n		nw.	0.11	2.8	light rain	J. E. Mueller.
Grant, Fort, Arizona	25.37	644.4	29.98	761.5	55.4	13.0	44	e.	28	8.0		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.78	756.4	29.80	756.9	58	14.4	93	ne.	16	7.2			10 k		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	26.12	663.4	30.29	769.4	47	8.3	71	sw.	3	1.3		0	0			0	0	clear	N. C. Smith.
Huron, Dakota	28.77	730.7	30.12	765.0	42	5.6	82	nw.	11	4.9		5 cs	0		nw.	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	28.90	734.0	29.69	754.1	61.0	16.1	72	w.	2	0.9			10 s		w.	0.13	3.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.87	758.7	29.90	759.4	71.2	21.8	95	w.	7	3.0		2 cs	2 ks	w.	w.	2.02	51.3	clearing	L. A. Reed.
Jacksboro, Texas	28.91	734.3	30.05	763.5	62	16.7	56	nw.	6	2.7		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	29.85	758.2	29.89	759.2	70.5	21.4	55	sw.	6	2.7		3 cs	0	sw.		0	0	clear	J. W. Smith.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.78	705.6	30.23	767.8	42	5.6	76	calm	0	0		0	0			0	0	clear	W. B. Lamar.
Keokuk, Iowa	29.18	741.2	29.83	757.7	50.0	10.0	77	nw.	10	4.5			10 s		nw.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.86	758.4	29.88	758.9	76.0	24.4	64	ne.	4	1.8		0	0			0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.80	756.9	29.82	757.4	54	12.2	100	ne.	18	8.0			10s; fg		ne.	0.20	5.1	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.82	732.0	29.84	757.9	65.2	18.4	82	calm	0	0		2 c	3 ks	w.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.01	736.8	29.77	756.1	44	6.7	76	nw.	20	8.9			10 n			0.03	0.8	light rain	S. C. Emery.
Leavenworth, Kansas	29.09	738.9	29.97	761.2	50	10.0	77	nw.	14	6.3			10 ks		nw.	inap.	inap.	cloudy	A. W. Browne.
Lewiston, Idaho	29.51	749.5	30.35	770.9	52.3	11.3	76	ne.	2	0.9		8 k	0	w.		0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.44	747.8	29.75	755.6	68	20.0	84	nw.	8	3.6			10 s		nw.	0.45	11.4	cloudy	W. U. Simons.
Los Angeles, California	29.66	753.4	30.06	763.5	62	16.7	38	ne.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.13	739.9	29.68	753.9	67	19.4	90	s.	10	4.5			10 n		sw.	0.14	3.6	light rain	L. M. Dey.
Lynchburg, Virginia	29.14	740.1	29.82	757.4	60	15.6	70	e.	1	0.4		4 c	0			0	0	fair	Louis Duane.
Mackinaw City, Michigan	28.96	735.6	29.61	752.1	42.0	5.6	82	w.	10	4.5			10 s		w.	0.31	7.9	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.81	757.2	29.82	757.4	59.0	15.0	81	n.	4	1.8			10 s		ne.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.86	656.8	30.27	768.8	50	10.0	41	w.	10	4.5		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.02	737.1	29.74	755.4	34	1.1	100	nw.	20	8.9			10 n			0.81	20.6	light rain	E. H. Thompson.
Memphis, Tennessee	29.36	745.7	29.09	754.1	69	20.6	93	w.	4	1.8			10 n			0.68	17.3	thund'r st'm	D. T. Flannery.
Milwaukee, Wisconsin	28.96	735.6	29.70	754.4	51	10.6	59	n.	9	4.0			10 s		n.	0	0	cloudy	W. Line.
Missoula, Fort, Montana	27.08	687.8	30.38	771.6	50	10.0	55	calm	0	0		0	0			0	0	clear	J. H. Young.
Mobile, Alabama	29.84	757.9	29.88	758.9	73.4	23.0	81	sw.	2	0.9		2 cs	4 ks		sw.	0	0	fair	C. A. Read.
Montgomery, Alabama	29.56	751.3	29.81	757.2	72.5	22.5	82	sw.	1	0.4		hz.	3 k		w.	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.11	739.4	30.09	764.3	42	5.6	100	n.	24	10.7			10 s		n.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.72	602.5	29.90	759.4	46.4	8.0	97	sw.	42	18.8			fg.		sw.	0.42	10.7	dense fog	S. W. Beall.
Nashville, Tennessee	29.15	740.4	29.72	754.9	69.0	20.6	78	e.	4	1.8		10 cs	0	sw.		inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.69	754.1	29.81	757.2	53	11.7	93	ne.	11	4.9			10s; hz			0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.75	755.6	29.80	756.9	54	12.2	93	ne.	4	1.8			10 s			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.81	757.2	29.86	758.4	74.0	23.3	83	s.	2	0.9		9 cs	0	sw.		0	0	cloudy	H. C. Smyth.
New York, New York	29.64	752.8	29.82	757.4	58	14.4	80	ne.	6	2.7			10 s			0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	29.78	756.4	29.81	757.2	60	15.6	93	e.	5	2.2			10s; fg			0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.29	693.2	30.16	766.1	45.6	7.6	83	w.	6	2.7		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.29	769.4	30.33	770.4	42.0	5.6	92	n.	1	0.4			10 s			0.29	7.4	cloudy	J. Dascomb.
Omaha, Nebraska	28.84	732.5	30.00	762.0	49.0	9.4	67	n.	13	5.8			10 ks		n.	0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	29.99	761.7	30.01	762.2	11.7	—11.3	100	s.	4	1.8		2 cs	1 s			0	0	clear	P. H. Ray.
Oswego, New York	29.35	745.5	29.68	753.9	63.0	17.2	52	s.	10	4.5			8 k		sw.	0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.41	747.0	29.96	761.0	63.0	17.2	93	nw.	13	5.8		0	4 ks		nw.	1.50	38.1	fair	L. M. Pindell.
Pensacola, Florida	29.85	758.2	29.88	758.9	72.4	22.4	84	sw.	3	1.3		5 c	2 k	w.	sw.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.71	754.6	29.81	757.2	57	13.9	93	ne.	5	2.2			10 s; fg		ne.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.94	455.7	30.00	762.0	15	— 9.4	100	ne.	11	4.9			10 ks		nw.	0.49	12.4	cloudy	H. Hall.
Ploche, Nevada	24.30	617.2	30.22	767.6	43.0	6.1	43	n.	4	1.8		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	28.91	734.3	29.71	754.6	66.0	18.9	76	calm	0	0		5 k	0	w.		0.06	1.5	fair	W. A. Reid.
Poplar River, Montana	28.11	714.0	30.23	767.8				w.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	28.94	735.1	29.62	752.3	59.0	15.0	93	sw.	9	4.0			10 s			0.79	20.1	cloudy	M. H. Perry
Portland, Maine	29.80	756.9	29.85	758.2	51.0	10.6	86	e.	6	2.7			10n; fg			0.03	0.8	light rain	W. W. Eichelberger
Portland, Oregon	30.22	767.6	30.29	769.4	55.3	12.9	86	nw.	6	2.7		5cs; ck	0	n.		0	0	fair	M. L. Hearne.
Portsmouth, N. C.					60	15.6	81	ne.	17	7.6			10 s			0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.93	633.2	30.03	762.7	41.5	5.3	70	calm	0	0		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.78	756.4	29.81	757.2	48	8.9	93	ne.	8	3.6			10s; fg			0.10	2.5	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.89	759.2	29.90	759.4	69	20.6	68	ne.	4	1.8		1 c	0		ne.	0	0	clear	W. J. Evans.
Red Bluff, California	29.77	756.1	30.12	765.0	58	14.4	74	nw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.00	736.6	29.66	753.4	63	17.2	62	sw.	20	8.9		7ck; k	hz.	w.		0	0	fair	E. W. McGann.
Roseburg, Oregon	29.74	755.4	30.28	769.1	50	10.0	86	calm	0	0		1 cs	0	w.		0	0	clear	J. J. Nanry.
Sacramento, California	30.06	763.5	30.14	765.5	60.0	15.6	70	nw	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.21	741.9	29.80	756.9	53.7	12.1	100	nw.	17	7.6			10 s		nw.	0.02	0.5	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.98	761.5	30.01	762.2	30	— 1.1	88	ne.	20	8.9		0	0			0	0	clear	A. P. Leavitt.
St. Paul, Minnesota	29.01	736.8	29.85	758.2	41.5	5.3	69	n	20	8.9			10 n		n.	0.05	1.3	light rain	P. F. Lyons.
St. Vincent, Minnesota	29.32	744.7	30.18	766.6	38	3.3	82	n.	8	3.6		5 cs	0			0	0	fair	C. B. Dilley
Salt Lake City, Utah	25.95	659.1	30.27	768.8	48	8.9	50	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.33	745.0	30.03	762.7	65	18.3	68	n.	9	4.0		0	0			inap.	inap.	clear	J. H. Davis.
San Diego, California	29.93	760.2	30.00	762.0	61.3	16.3	29	n.	3	1.3		0	0			0	0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	29.77	756.1	29.80	756.9	56.0	13.3	100	ne.	13	5.8			fg.			0	0	dense fog	B. A. Blundon.
Sanford, Florida	29.84	757.9			66.5	19.2	90	n.	1	0.4		2 c	fg.			0	0	clear	J. B. Marbury.
San Francisco, California	30.05	763.3	30.12	765.0	57.5	14.2	83	nw	2	0.9		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.45	595.0	30.06	763.5	49	9.4	50	w.	4	1.8		2 k	0	w.		0	0	clear	H. U. Jones.
Savannah, Georgia	29.77	756.1	29.86	758.4	74	23.3	56	sw.	6	2.7		0	hz.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.65	676.9	30.25	768.3	46	7.8	76	sw.	3	1.3		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.58	751.3	29.82	757.4	69.0	20.6	90	w.	6	2.7		0	8 k		w.	0.25	6.3	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.84	732.5	30.06	763.5	60	15.6	67	n.	5	2.2		0	7 ks		n.	0.01	0.3	fair	W. M. Mattingly.
Sitka, Alaska	29.86	758.4	29.92	760.0	45.5	7.5	83	s	2	0.9			10 ks		s.	0.11	2.8	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.45	748.0	29.92	760.0	59.5	15.3	65	n.	14	6.3		0	6 ks		n.	0.86	21.8	fair	J. B. Campbell.
Smithville North Carolina	29.80	756.9	29.84	757.9	59	15.0	60	n.	5	2.2		3 c	0	n.		0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.31	719.1	30.36	771.1	49	9.4	80	w.	1	0.4		5 ck	2 s			0	0	fair	John F. Hemenway.
Springfield, Illinois	29.12	739.6	29.78	756.4	54.5	12.5	71	nw.	11	4.9			10 s		w.	0	0	cloudy	T. B. Jennings.
Springfield, Missouri	28.46	722.9	29.88	758.9	51	10.6	93	nw.	12	5.4			10 s		nw.	0.38	9.7	cloudy	J. H. Bryce.
Starkville, Miss	29.32	744.7	29.79	756.7	69	20.6	84	s.	12	5.4			10 s		s.	inap.	inap.	cloudy	C. Dill.
Stevenson, Fort, Dakota	28.41	721.6	30.24	768.1	39	3.9	82	w.	3	1.3		0	0			0	0	clear	A. Schneider.
Stockton, Fort, Texas	27.19	690.6	30.20	767.1	53	11.7	86	w.	8	3.6		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	29.79	756.7	29.84	757.9	49.0	9.4	93	ne.	9	4.0			fg.			0.14	3.6	dense fog	G. Liebmann.
Thomas, Camp, Arizona	27.38	695.4	30.05	763.3	64	17.8	45	se.			2	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	28.97	735.8	29.65	753.1	63	17.2	78	sw.	6	2.7			10 s		sw.	0.60	15.2	cloudy	A. Buell.
Tucson, Arizona	27.05	702.3	29.99	761.7	58	14.4	56	s.	6	2.7		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.29	744.0	29.31	744.5	39	3.9	89	e.	22	9.8			10 n			3.27	83.1	light rain	Samuel Applegate.
Verde, Fort, Arizona					50	10.0	36	s.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.55	750.6	29.80	756.9	71.4	21.9	83	s.	8	3.6			10 s		s.	0	0	cloudy	James Kenealy.
Visalia, California	29.74	755.4	30.12	765.0	53.1	11.7	84	ne.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.79	629.7	30.27	768.8	38.0	3.3	87	w.	5	2.2		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.73	755.1	29.84	757.9	59.3	15.2	68	calm	0	0		8 cs	hz.	nw.		0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.30	668.0	30.16	766.1	44.5	6.9	93	w.	4	1.8		2 ck	3 k	nw.	nw.	0.01	0.3	fair	F. H. Brandenburg.
Williamsport, Pa	29.17	740.9	29.77	756.1	63	17.2	78	w.	2	0.9			10 ks			0	0	threatening	B. F. Hough.
Wilmington, N. Carolina	29.79	756.7	29.84	757.9	61	16.1	56	n.	2	0.9		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.91	658.1	30.26	768.6	37	2.8	60	e.	9	4.0		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.78	731.0	30.06	763.5	46	7.8	68	n.	20	8.9		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.82	757.4	29.97	761.2	66.0	18.9	48	n.	4	1.8		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			55.0	12.8	83	n.	2	0.9			7n; s		ne.	0.01	0.3	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.			29.88	758.9			82	n.	1	0.4		0	3 s		sw.	0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.00	762.0	30.00	762.0	78	25.6	91	se.			2		8 pe		e.	0.230	5.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	78	25.6	89	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	92	se.					3 ks		se.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos.
Santiago de Cuba, W. I.	29.86	758.4	29.86	758.9	75	23.9	60	n.	2	0.9		0	0			0	0		R. Mason.
York Factory, B. A.	30.08	764.0	30.14	765.5	32.5	0.3	94	nw.	14	6.3		1 c	2 s	nw.	nw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 39° 35′, E. 20° 01′	29.80	756.9	69	20.6	80	ssw.			1		3	ssw.				sm'h		d. clouds.
H. M. S. Dido, Barbadoes, W. I.	29.90	759.4	83	28.3		se.			2		4	e.				1	s.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.85	758.2	72	22.2	90	nne.			4		6	nne.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.94	760.5	71	21.7	62	ssw.			1		3	wsw.						d. clouds.
H. M. S. Opal, N. 37° 50′, W. 15° 29′	29.89	759.2	64	17.8	89	sse.			3		0					2	ssw.	blue sky.
H. M. S. Rocket, N. 38° 15′, W. 27° 45′	29.72	754.9	62	16.7	88	nnw.			4		5					5	nne.	squally.
H. M. S. Tenedos, Halifax, N. S.	30.02	762.5	49	9.4	93	ese.			1									foggy.
U. S. Navy Yard, Pensacola, Fla.	30.06	763.5	76	24.4	82	sw.	4	1.8			8		sw.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H*	29.80	756.9	48	8.9	100	ne.	13	5.8			10		ne.	0.1	3.			misty.
U. S. S. Alliance, Norfolk, Va	29.83	757.7	63	17.2	89	e.			1		10		light	light				cloudy.
U. S. S. Colorado, New York, N. Y.	29.94	760.5	59	15.0	76	e.	6	2.7			10			0	0			overcast.
U. S. S. Franklin, Norfolk, Va.	29.81	757.2	62	16.7	?	ene.	7	3.1			10		ene.					drizzling.
U. S. S. Jamestown, Newport, R. I*†	29.85	758.2	51	10.6	86	ne.			3		10							drizzling.
U. S. S. Kearsarge, Hampton Roads, Va.	29.94	760.5	62	16.7	94	nne.			2		10							misty.
U. S. S. Lancaster, Kronstadt, Russia	29.42	747.3	45	7.2	100	nnw.			3		0					sm'h		clear.
U. S. S. Michigan, Erie, Pa.	29.63	752.6	68	20.0	84	wsw.			2		10		sw.					cloudy.
U. S. S. Minnesota, New York, N. Y.	29.81	757.2	59	15.0	76	ne.			2		10		ene.					cloudy.
U. S. S. New Hampshire, Newport, R. I.	29.78	756.4	53	11.7	93	nne.			2		10		calm					drizzling.
U. S. S. Portsmouth, Newport, R. I.	29.87	758.7	52	11.1	100	nne.			3		10		ne.					drizzling.
U. S. S. Powhatan, N. 11° 41′, W. 76° 45′	29.86	758.4	82	27.8	89	n.			1		2							fair.
U. S. S. Quinnebaug, Cape Mount, Liberia, Africa	29.89	759.2	83	28.3	87	sw.			1		8		sw.			sm'h	sw.	fair.
U. S. S. Saratoga, N. 38° 53′, W. 73° 48′	29.83	757.7	51	10.6	?	ne.			3–4		10		ne.	light	light	sm'h	ne.	foggy.
U. S. S. St. Louis, League Island, Pa.	29.87	758.7	57	13.9	87	ene.	5.4	2.4			10		ese.	0	0			cloudy.
U. S. S. Swatara, Progreso, Yucatan†	29.84	757.9	76	24.4	85	e.			4		1		e.	0	0	sm'h		clear.
U. S. S. Tennessee, Fort Monroe, Va.	29.84	757.9	54	12.2	83	e.	4	1.8			10			sll't	sll't			misty.
U. S. S. Vandalia, Hampton Roads, Va.	29.80	756.9	61	16.1	100	ne.			1		10		calm					cloudy.
U. S. S. Wabash, Boston, Mass.	29.88	758.9	51	10.6	93	ne.	4	1.8			10		ne.	0.07	1.8			cloudy.
U. S. S. Yantic, Fortress Monroe, Va.	29.83	757.7	61	16.1	94	ne.			1		10							cloudy.
Commewyne, N. 42° 16′, W. 28° 55′	29.81	757.2	58.5	14.7	85	nne.			4		7							d. clouds.
S. S. Inchkeith, N. 5° 24′, W. 26° 19′	29.91	759.7	75	23.9	91	var.			1		8							raining.
S. S. British Crown, N. 38° 55′, W. 73° 08′ †	29.77	756.1	51	10.6		nne.			2		0			0	0	h'vy	ene.	foggy.
S. S. Illinois, Ballycottin, Ireland *	30.02	762.5	58	14.4		wsw.			1		4		w.			sm'h		fair.
S. S. Lord Gough, N. 50° 30′, W. 30° 23′	30.09	764.3	48	8.9		n.			4		5		n.	3 h'r	3 h'r	mod.	n.	fair.
S. S. Ohio, N. 40° 09′, W. 53° 25′ †	30.28	769.1	68	20.0	90	sw.			5		5 ?		w.	sh'rs	sh'rs	mod.	sw.	clear?
S. S Pennsylvania, N 45° 49′, W. 33° 40′ †	30.13	765.3	53	11.7		nne.			6		9		ne.			mod.	ne.	cloudy.
S. S. Circassian, N. 49° 16′ W. 66° 30′	29.77	756.1	58	14.4	70	sse.			3		6			0	0	3	ese.	d. clouds.
S. S. Grecian, N. 52° 20′, W. 36° 53′	30.25	768.3	43	6.1	83	n.			3		6		n.	0	0	light	nw.	cloudy.
S. S. Nova Scotian, N. 42° 20′, W. 68° 18′	29.90	759.4	50	10.0		e.			3							sll't	ese.	dense fog.
S. S. Polynesian, Montreal, Canada	29.74	755.4	61	16.1		sw.			3		10		sw.	0	0			cloudy.
S. S. Manitoban, Montreal, Canada	29.85	758.2	47	8.3	85	sse.			2		4		se.	0	0			clear.
S. S. Scandinavian N. 50° 54′, W. 42° 24′*	30.14	765.5	48	8.9		sw.			1–3		9		wsw.	0	0	light	wsw.	d. clouds.
S. S. Sardinian, N 50° 57′ W. 21° 05′	29.93	760.2	55	12.8		sw.			2		10		sw.	0	0	sm'h		cloudy.
S. S. Ailsa, Jacmel, Hayti, W. I†	29.82	757.4	81	27.2		calm			0									
S. S. Anchoria, N. 42° 00′, W. 61° 47′†	30.12	765.0				sse.			3		fg.		sse.	0	0	mod.	s.	foggy.
S. S. Bolivia, Moville, Ireland *†	30.15	765.8	57	13.9		wnw.			2		10		nw.	0	0	sm'h	w.	cloudy.
S. S. Dorian, N. 40° 28′, W. 67° 30′	29.82	757.4	54	12.2		var.			1		fg.			0	0	mod.	e.	dense fog.
S. S. Furnesia, N. 40° 27′, W. 74° —†	29.76	755.9	55	12.8	89	nne.			2		8		n.	0	0	sm'h		cloudy.
S. S. Llandaff City, N. 40° 28′, W. 74° 02′						e.			2		4		e.	0	0	sm'h		hazy.
S. S. Bothnia, N. 42° 07′, W. 58° 04′	30.15	765.8	61	16.1	94	sse.			4		mist		s.				s.	misty.
S. S. Pavonia, off Queenstown, Ireland	29.99	761.7	59	15.0	76	wsw.			3		3		w.	0	0	sm'h		clear.
S. S. Scythia, N. 42° 06′, W. 50° 00′	30.27	768.8	56	13.3	100	ene.			1		10?			0	0	sll't	ese.	clear?
S. S. Colina, N. 54° 58′, W. 15° 47′ †	29.96	761.0				wsw.			3		9		w.	0	0	long	w.	cloudy.
S. S. Canada, N. 40° 56′, W. 52° 30′	30.45	773.5	64.4	18		calm			0	c	0	e.		0	0	sm'h	s.	almost clear.
S. S. France, N. 41° 00′, W. 54° 42′ †	30.07	763.7	73.4	23		se.			4		4		sw.	0	0	h'vy	se.	fair.
S. S. Ville de Marseilles, Puerto Plata, Hayti, W. I*	30.05	763.3	78	25.6		sw.			3		7		w.	0	0	mod.	nw.	covered.
S. S. Arizona, N. 41° 00′, W. 66° 30′	29.80	756.9	49	9.4		se.			2		10		se.	0	0	mod.	se.	foggy.
S. S. Bohemia, Elbe river, Germany						nw.			6–7		10		nw.	18 h'r	18 h'r	r'gh	nw.	squally.
S. S. Gellert, N. 50° 04′, W. 4° 27′	30.13	765.3	60	15.6	82	ene.			2		3		ene.	0	0	sm'h	e.	clear.
S. S. Rugia, N. 48° 36′, W. 21° 24′	29.98	761.5	57	13.9		e.			3		10		e.			long	e.	misty.
S. S. Silesia, N. 20° 22′ W. 67° 57′	29.93	760.2	77.5	25.3		wsw.			3		2		se.	0	0	3	wsw.	fair.
S. S. Westphalia, N. 4° 51′, W. 61° 56′	30.01	762.2	63	17.2	83	ese.			4		10		se.	4 h'r	4 h'r	mod.	se.	misty.
S. S. Wieland, N. 40° 50′, W. 53° 22′	30.30	769.6				ssw.			3–4		2		sw.	0	0	sm'h	sw.	foggy.
S. S. Bulgarian, N. 50° 26′, W. 23° 16′	30.02	762.5				ne.			1		10		ne.	0	0			overcast.
S. S. Archimedes, N. 1° 21′, W 40° 26′	29.81	757.2				se.			3		3		se.	1 h'r	1 h'r	light	e.	clear.
S. S. Colorado, N. 37° 42′, W. 74° 23′ †	29.80	756.9	56	13.3		nnw.			1		fg.			0	0	h'vy	e.	dense fog.
S. S. San Marcos, N. 28° 15′, W. 92° 50′			78	25.6		sw.			5				sw.			mod.		light rain.
S. S. Chalmette, N. 30° 44′, W. 79° 40′ †	29.94	760.5	74	23.3		wnw.			4		2			0	0	h'vy	ne.	clear.
S. S. New York, N. 38° 00′, W. 74° 30′ *†	29.90	759.4	52	11.1		n.			3		hz.					hv'y	ne.	hazy.
S. S. Lone Star, N. 29° 03′, W. 80° 15′ †	29.89	759.2	76	24.4		w.			2		0			0	0	h'vy	e.	clear.
S. S. Alleghany, N. 41° —′, W. 70° —′	29.83	757.7	48	8.9		se.			1		0					long	e.	foggy.
S. S. Archimede, N. 36° 50′, W. 31° 19′†	29.92	760.0	66	18.9	74	n.			4		7		ne.	2 h'r	2 h'r	r'gh	ne.	fair.
S. S. City of Washington, N. 29° 13′, W. 78° 15′†	29.93	760.2	75	23.9		n.			4		2		n.	0	0	mod.	n.	clear.
S. S. Denmark, London, Eng†	30.13	765.3	66	18.9		var.			2		2			0	0			clear.
S. S. England, N. 48° 30′, W. 26° 27′	29.98	761.5	54	12.2		ne.			5		10		ne.	0	0	mod.	ne.	overcast.
S. S. Greece, N. 46° 46′, W. 29° 48′*	29.90	759.4	55	12.8	100	var.			2–4		10		n.	light	light	mod.	ne.	rain & fog.
S. S. Helvetia, N. 40° 31′, W. 70° 30′	29.78	756.4	54	12.2	87	ne.			4		10		ne.	½h'r	½h'r	mod.	e.	dense fog.
S. S. Holland, N. 40° 26′, W. 68° 59′	29.69	754.1	54	12.2		se.			3		10					sm'h	ene.	dense fog.
S. S. The Queen, N. 48° 19′, W. 30° 58′	30.06	763.5	53	11.7	93	ne.			5		10		nne.			mod.	var.	cloudy.
S. S. America, N. 44° 10′, W. 39° 30′*	30.27	768.8	62.0	16.7	97	nne.			6		10		nne.	0	0	mod.	e.	overcast.
S. S. Braunschweig, N. 49° 05′ W. 20° 56′	29.97	761.2	62.0	16.7	61	ese			2		3		se.	0	0	sm'h	e.	clear.
S. S. Donau, N. 40° 12′, W. 70° 11′	29.78	756.4				nne.			1		10		nne.			long	e.	dense fog.
S. S. Elbe, N. 42° 44′, W. 44° 50′	30.31	769.9	59	15.0	70	ene.			6		3		ne.	2 h'r	2 h'r	cross	ne.	clear.
S. S. Hohenzollern, N. 41° 01′, W. 58° 19′ *	30.14	765.5	67.1	19.5		se.			5		8		se.	0	0	high	s.	cloudy.
S. S. Main, off Needles, Eng						nw.			4		4		n.	0	0	mod.	nnw.	fair.
S. S. Oder, N. 44° 57′, W. 40° 31	30.32	770.1	53.6	12.0		nne.			5		10		nne.	¾ h'r	¾ h'r	mod.	var.	cloudy.
S. S. Strassburg, N. 40° 25′, W. 49° 31′	30.30	769.6	73.0	22.8	90	wnw.			2		9		wnw.	½ h'r	½ h'r	2	se.	clearing.
S. S. Werra, N. 48° 03′ W. 28° 00′	30.01	762.2	54	12.2		e.			4		2		ene.	0	0	mod.	e.	clear.
S. S. Orinoco, N. 34° 20′, W. 65° 35′ *†	29.66	753.4	74	23.3		ese.			5		10		ese.	2 h'r	2 h'r	h'vy	se.	overcast
S. S. Colon, Aspinwall, Panama †	29.91	759.7	80	26.7		sw.			1		10			3 h'r	3 h'r	mod.		overcast.
S. S. Muriel, N. 37° 46′ W. 72° 22′	29.71	754.6	64	17.8		n.			4		10			7 h'r	7 h'r	long	ne.	drizzling.
S. S. City of Augusta, N. 82° 49′, W. 78° 50′†	29.88	758.9				ene.			3		5		ne.	0	0	hv'y	ese.	fair.
S. S. Belgenland, off Portland, Eng†	30.14	765.5	56	13.3	75	w.			2		9			0	0	sm'h	w.	cloudy.
S. S. Nederland, N. 40° 10′, W. 71° 18′			47	8.3		ne.			4		10					mod.	e.	foggy.
S. S. Rhynland, Jersey City, N. J.			70	21.1	85	calm			0					0	0			fair.
S. S. Pennland, N. 41° 41′, W. 46° 22′	30.37	771.4	60	15.6	82	e.			3		6		se.	4 h'r	4 h'r	sm'h		fair.
S. S. Waesland, N. 48° 14′, W. 25° 48′	30.00	762.0	54	12.2		nne.			4		10		nne.	0	0	light	nne.	cloudy.
S. S. P. Caland, N. 50° 30′, W. 1° 50′	30.09	764.3	56.1	13.4	90	w.			2		10		w.					overcast.
S. S. Schiedam, N. 48° 30′, W. 15° 30′	30.00	762.0	60.4	15.8	83	e.			4		2		ese.	0	0	mod.	ese.	clear.
S. S. W. A. Scholten, N. 40° 53′, W. 54° 25′	30.26	768.6	70.0	21.1	85	se.			5		8		se.	0	0	mod.	se.	cloudy.
S. S. Zaandam. N. 44° 12′, W. 43° —′	30.35	770.9	61.9	16.6	73	ene.			3	5 ck	0	ene.		1 h'r	1 h'r	3	ene.	fair.
S. S. Valencia, La Guayra, Venezuela †	30.02	762.5	82	27.8	91	calm			0		8		sw.	0	0	sm'h		cloudy.
S. S. State of Florida, New York, N. Y.			61	16.1		n.			1		10		w.	0	0			overcast.
S. S. State of Georgia, N. 43° 09, W. 52° 25′†	30.32	770.1	49	9.4		ese.			3		10					sm'h		drizzling.
S. S. State of Nebraska, N 55° 20′, W. 6° 30′ †*	30.00	762.0	52	11.1							5		e.	0	0	mod.	nw.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. State of Nevada, Glasgow, Scotland†	30.07	763.8	49	9.4		ene.			6		5		ene.	0	0			fair.
S. S. State of Alabama, N. 50° 33′, W. 26° 42′*	29.91	759.7	50	10.0		e.			5		8		e.	rain	rain	mod.	ne.	cloudy.
S. S. Marengo, N. 42° 30′, W. 57° 43′			54	12.2		ese.			3		2		se.	1 h'r	1 h'r	long	s.	foggy.
S. S. Romano, N. 49° 53′, W. 5° 43′†	30.11	764.8	54	12.2		calm			0		1		e.			sm'h		clear.
S. S. Dominion, N. 49° 11°, W. 66° 48′*†	29.80	756.9	58	14.4		se.			2		5		se.			sm'h	se.	fair.
S. S. Toronto, N. 55° 38′, W. 18° 16′	29.87	758.7	52	11.1		wsw.			4		7		ssw.	o	o	mod.	sw.	fair.
S. S. Lake Huron, N. 46° 38′, W 54° 52′	30.21	767.3	36	2.2		sse.			4		fg.		sse.	o	o	sm'h		foggy.
S. S. Lake Manitoba, N. 52° 06′, W. 16° 50′	30.04	763.0	56	13.3		ssw.			4		4		sw.	o	o	sm'h		fair.
S. S. Daniel Steinmann, N. 49° 28′, W. 26° 46′			63	17.2		ene.			3		2		ene.	o	o	light	ene.	clear.
S. S Plantyn, N. 44° 16′, W. 35° 12′	30.25	768.3							5		4		nne.	3 h'r	3 h'r	hv'y	ne.	fair.
S. S. Norman, Philadelphia, Pa	29.78	756.4				ne.			1		10		ne.	o	o			cloudy.
S. S. Saxon, N. 41° 29′, W. 70° 04′†	29.83	757.7				ene.			4		10			o	o			dense fog.
S. S. Adriatic, N. 45° 02′, W. 40° 23′*†	30.40	772.1	53	11.7	80	n.			5		8		n.	2 h'r	2 h'r	mod.	n.	cloudy.
S. S. Baltic, N. 40° 28′ W. 69° 58′*	29.79	756.7	47	8.3	92	ne.			2		fg.			o	o		e.	foggy.
S. S Celtic, N. 40° 25′, W. 69° 44′†	29.79	756.7	54	12.2		se.			4		fg.			2 h'r	2 h'r	long	s.	foggy.
S. S. Assyrian Monarch, N. 44° —′ W. 54° —′	30.20	767.1	43	6.1		se.			2		4		se.			long	se.	foggy.
S. S. Antonio Lopez, N. 42° 49′, W. 17° 39′	29.94	760.5	60.5	15.8	88	se.			3		7			4 h'r	4 h'r	mod.	se.	fair.
Schr. Abbie H. Gheen, Mayport, Fla†	29.87	758.7	70	21.1		w.			4					o	o			clear.
Bg. Abbie Clifford, N. 25° 54′, W. 67° 25′†	29.82	757.4	75	23.9		wsw.			6		4		wsw.	1 h'r	1 h'r	r'gh	var.	stormy.
Bk. Alpha, N. 47° 50′, W. 35° 50′*†	30.26	768.6	52	11.1		n.			6		8		ne.	4 h'r	4 h'r	r'gh	nw.	cloudy.
Bg. Alcira, Maracaybo, Venezuela	29.93	760.2	86	30.0		ene.			2		10		ne.	6 h'r	6 h'r			overcast.
Bk. Adelaide, N. 15° 08′, W. 39° 56′*†	30.07	763.8	78	25.6		ene.			5		1		e.	o	o	mod.	e.	clear.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.00	762.0	76	24.4		calm			0		10			6 h'r	6 h'r			heavy rain.
Schr. Authur Burton, St. Simon's Island, Ga*†	29.80	756.9				nnw.			1		1		nnw.	o	o			fine.
Bk. Aureola, N. 15° 35′, W. 61° 46			90	32.2		se.			2		3		e.	o	o	mod.	e.	clear.
Bk. Achille F, N. 5° —′, W. 26° 30′†	29.91	759.7	78	25.6	95	ssw.			2		10		var.	12 h'r	12 h'r	long	var.	squally.
Bk. Arda, Holmes' Hole, Mass						e.			5		6		e.	3 h'r	3 h'r	sm'h		fair.
Bg. Annie R. Storer, N. 25° 38′, W. 71° 50′†	29.80	756.9				nw.			2		3		wnw.	4 h'r	4 h'r	high	n.	squally.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.90	759.4	83	28.3		ene.			2		4		ene.	o	o			fair.
S. S. Burswell, N. 32° 20′, E 28° 46′†*	29.95	760.7	79	26.1		wnw.			2		2		calm	3 h'r	3 h'r	sm'h		fine.
Bg. Belle of the Bay, N. 25° 40′, W. 78° 03′†	29.88	758.9				nw.			2		4		wnw.	o	o	sm'h	w.	clear.
Bk. Champion, N. 23° 56′, W. 65° 16′			80	26.7	95	sw.			4		8		nw.	5 h'r	5 h'r	h'vy	nnw	cloudy.
Bkt. O. S. Bushnell, N. 42° 00′, W. 70° 00	29.74	755.4				se.			2		10		se.	o	o	h'vy	se.	cloudy.
Bk. Childwall, N. 33° 43′, W. 43° 48′			69	20.6		ne.			3		5		ne.	o	o	str'g	e.	fair.
Schr. Glotilde, N. 25° 54′, W. 76° 36′*†	29.78	756.4	76	24.4		nw.			4		5		nw.	4 h'r	3 h'r	cross	var.	squally.
S Criterion, off Innistrahull Island, Ireland*†	30.00	762.0	60	15.6		se.			2		10		s.	sh'rs	sh'rs	light	wnw.	hazy.
S. David Stewart, N. 33° 30′, W. 51° 01′†	30.24	768.1				sse.			2		1		se.	o	o	mod.	se.	clear.
S. S. D. J. Foley, N. 35° 00′, W. 74° 50′*†	29.80	756.9	70	21.1	90	nne.			3		4		nne.	1 h'r	1 h'r	long	nne.	fair.
Bkt. David A. Preston, N. 21° 10′, W. 69° 57′			78	25.6		sw.			6		8		ne.	o	o	long	n.	
Schr. Edith R. Seward, N. 18° 18′, W. 79° 15′			89	31.7		ne.			2		2		ne.	o	o	sm'h	e.	clear.
S. E. J. Spicer, Liverpool, Eng	30.03	762.7	56	13.3	100	w.			2		10		wnw.	12 h'r	12 h'r			hazy.
Bk. E. D. Bigelow, N. 42° 40′, W. 52° 01′†			56	13.3		se.			1		fg.			½ h'r	½ h'r	short	se.	foggy.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	29.94	760.5	62	16.7	100	calm			0		7		calm	o	o			fair.
Schr. F. E. McDonald, N. 26° —′, W. 83° 15′†	29.95	760.7				calm			0					o	o			clear.
Bk. George Davis, N. 41° 20′, W. 44° 58′						ene.			5				ene.	o	o	r'gh	ne.	covered.
Bk. Gronsvaer, N. 18° 30′, W. 54° 30′†	29.98	761.5	79.0	26.1		ene.			4		3		ese.	o	o	mod.	e.	fair.
Bk. Galeon, N. 20° 49′ W. 99° 33′†	29.99	761.7	79	26.1		e.			3		0			o	o	sm'h	s.	blue sky.
S Hedwig, N. 39° 39′, W. 27° 10′	29.75	755.6	59.9	15.5	92	nnw.			6		7		nnw.	1 h'r	1 h'r	4	ne	
Bk. Hattie G. McFarland, Port Royal, S. C*†	29.80	756.9	73	22.8		calm			0		2		w.	o	o			fine.
Bk. John H. Pearson, N. 28° 47′, W. 26° 00′						nnw.			1				n.	o	o	long	n.	clear.
Schr. Isabel Alberto, Jersey City, N. J†	29.82	757.4				s.			1		10			o	o			cloudy
Bk. Oato, N. 51° 40′, W. 17° 00′*†	30.06	763.5				se.			3		2		se.	o	o	sm'h	e.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	29.92	760.0				calm			0		2			o	o			clear.
Schr. Jennie N. Huddell, Baltimore, Md†	29.86	758.4	70	21.1	100	calm			0		10			o	o			cloudy.
Bkt. Josephine, N. 25° 23′, W. 63° 25′†	29.85	758.2	81	27.2	59	ssw.			6		0			o	o	h'vy	var.	hazy.
Schr. Leonessa, Baltimore, Md†	29.82	757.4				se.			1		10		sw.	o	o			cloudy.
Bg. L. & W. Armstrong, N. 28° 53′, W. 70° 02′*†	29.66	753.4				wnw.			7		3		nw.	sq'lls	sq'lls	h'vy	nnw.	
Light House Tender Laurel, Pensacola Bay, Fla†	29.89	759.2	76	24.4		ssw.			2–3		8		ssw.	1 h'r	1 h'r			cloudy.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	78	25.6		calm			0		0			o	o			clear.
Bk. Milo, N. 49° 08′, W. 11° 00′†	30.05	763.3				se.			3		0						nw.	clear.
S. S. Madrid, N. 38° 20′, E. 13° 50′†	29.78	756.4	68	20.0	79	w.			6		0			o	o	sm'h	wnw	clear.
Schr. Minnie A. Bonsall, N. 38° 32′, W. 74° 40′†	29.79	756.7	61	16.1		ne.			1					o	o	long	e.	foggy.
Bkt. Kryolith, N. 60° 30′, W 49° 10′*†.	29.80	756.9				e.			3		8		nw.	o	o	sm'h		overcast.
Bk. Matilda C. Smith, N. 38° 05′, W. 65° 30′†	29.86	758.4				se.			4		4		se.	6 h'r	6 h'r	r'gh	se.	threatening.
Bgt. Myrtle, N. 30° 58′, W. 60° 02′*†	30.00	762 0				sse.			6		1		sw.	10 h'r	10 h'r	r'gh	se.	clear.
Bk. Matthias, N. 41° 23′, W. 40° 11′*†	30.34	770.6	60	15.6		ene.			4–5		10		e.	1 h'r	1 h'r	cross	ene.	
Schr. Maggie Abbott, N. 34° 23′, W. 75° 51′†	29.70	754.4				n.			4		10		n.	driz'l	driz'l	long	ne.	cloudy.
S. S. Mendoza, N. 18° 05′, W. 54° 15′†	30.10	764.5				se.			2				se.	o	o	sm'h	ese.	clear.
Schr. Maud Briggs, N. 22° 25′, W. 56° 17′*†	30.12	765.0				se.			6		5		se.	o	o	rg'h	sse.	fair.
Bk. Ottawa, N. 41° 49′, W. 42° 38′*	30.15	765.8	61	16.1		nne.			5		10		ne.	½ h'r	½ h'r	mod.	ne.	cloudy.
S. S. Raleigh, New York, N. Y†	29.90	759.4																
Bk Rebus, Dover, Eng	30.00	762.0				e.			1		3		ene.	o	o	sm'h	ne.	fine.
Bk. Rosalie, Saint John, Antigua, W. I*†	29.90	759.4				se.			3				sse.	4 h'r	4 h'r			clear.
Bk. Southern Belle, Huelva, Portugal†	29.98	761.5	76	24.4		ene.			2		0			o	o	sm'h		clear.
S. St. Francis, N. 41° 05′, W. 40° 28′†	30.36	771.1	64	17.8	78	ene.			6		8		n.	8 h'r	8 h'r	h'vy	ne.	rainy.
S. S. Strathleven, N. 35° 51′, W. 47° 36′	30.29	769.4	67.0	19.4	78	ene.			1		6		wsw.	o	o	2	e.	d. clouds.
Bgt. Sunlight, Demerara, Lt. Ship, British Guiana*†	30.10	764.5				e.			3		10		ene.	2 h'r	2 h'r	mod.	ene.	raining.
Bg. Teneriffe, N. 22° 10′, W. 74° 30′*	29.76	755.9				nw.			6		1					rg'h	nw.	
Bk. Tuck Sing, N. 25° 05′, W. 09° 38′*†	29.74	755.4				wnw.			3		2		ene.	10 h'r	10 h'r	mod.	nw.	fair.
Bk. Usko, N. 43° 10′, W. 37° 21 *	30.08	764.0	59	15.0		nne.			6				nne.	o	o			
Schr. Viola Reppard, N. 40° 45′, W. 71° 30′†	29.85	758.2	64	17.8		nne.			2		9		var.	2 h'r	2 h'r		se.	rain & fog.
Bkt. Wandering Jew, N. 38° 30′, W. 73° 32′†	29.90	759.4	67	19.4		n.			5					o	o	long	ne.	dense fog.
Bk. Winifred, N. 27° 35′, W. 66° 50′*†	29.80	756.9											var.	sq'lls	sq'lls	h'vy	var.	
S. Wm. McGilvery, N. 1° 36′, W. 30° 00′*†	29.90	759.4	81	27.2	83	s.			3		8		sse.	o	o	sm'h		squally.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.15	765.8	61.5	16.4	97	se.			1		10							foggy.
H. M. S. Boadicea, Cape Town, Cape Colony, Africa	30.10	764.5	63	17.2	89	wsw.			1		3							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.97	761.2	59	15.0	94	ssw.			2		10							foggy.
H. M. S. Thetis, S. 18° 17′, W. 25° 50′	30.08	764.0	76	24.4	91	ese.			3		3					4	sse.	d clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.97	761.2	60	15.6	100	ssw.	4	1.8			10		calm	o	o	sm'h		foggy.
U. S. S. Galena, Montevideo, Uruguay*	30.04	763.0	60	15.6	100	ssw.			1		10					sm'h		foggy.
May Hulse, S. 46° 37′, W. 41° 02′	29.90	759.4	48	8.9	70	ssw.			4		6							d. clouds.
S. S. Jerome, Manaos, Brazil*	29.66	753.4	77	25.0		calm			0		10			o	o			overcast.
S. S. Hevelius, Buenos Ayres, La Plata†	30.12	765.0	64	17.8		s.			2		fg.			4 h'r	4 h'r			foggy.
S. S. Ptolemy, S. 15° 30′, W. 38° —′	30.05	763.3	76	24.4	86	nne.			3		8ks			1.14	29.0	4	ese.	cloudy.
Bk. Horace Scudder, S. 7° 28′, E. 10° 31′ *†.	29.92	760.0	84	28.9		sw.			5		4		w.	o	o	mod.	w.	fair.
S. Mt. Washington, S. 1° 25′ W. 29° 05′*†	30.02	762.5	83.3	28.5	79	se.			5		3		se.	o	o	mod.	se.	clear.
S. Minnie N. Gerow, S. 32° 50′, W. 20° 26′ †.	30.06	763.5	64	17.8		w.			5		5		w.	o	o	long	s.	fair.
S. Paramita, S. 18° 10′, W. 32° 46′ †	29.99	761.7	76	24.4		e.			6		6		n.	3 h'r	3 h'r	small	ese.	fair.
S. Storm King, S. 57° 26′, W. 66° 48′ *†	29.67	753.6				n.			1		9		n.	o	o	r'gh	nw.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.83	757.7	67	19.4	89	ese.			1		10	se.						overcast.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Champion, N. 8° 40′, E. 102° 30′	29.68	753.9	84	28.9	96	sw.			4		10	w.				3	s.	d. clouds.
H. M. S. Sappho, N. 12° 28′, W. 87° 10′	29.86	758.4	82	27.8	100	calm			0		5	ne.						d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 25′	29.97	761.2	58.5	14.7	91	nnw.			1		5	nne.				1	n.	d. clouds.
H. M. S. Magpie, N. 14° 25′, E. 120° 24′	29.75	755.6	83.8	28.8	75	e.			3		4	ese.				3	var.	d. clouds.
H. M. S. Swiftsure, Esquimalt, V. I.	30.37	771.4	49	9.4	85	calm			0									
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	30.04	763.0	67	19.4		e.			2		1							blue sky.
H. P. M. S. Tamega, Macao, China	29.84	757.8	83.3	28.5	88	e.			3		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.20	767.1	63.5	17.5	91	calm			0		5		w.	0	0			hazy.
U. S. S. Adams, Sitka, Alaska †	29.93	760.2	45	7.2	92	calm			0		10					sm'h		cloudy.
U. S. S. Hartford, N. 7° 50′. W. 147° 35′ *	29.79	756.7	80	26.7	87	ne.			5		10		e.	light	light	mod.	ne.	cloudy.
U. S. S. Monocacy, Roze Id, Corea	29.96	761.0	65	18.3	78	nw.			1		5		calm					misty.
U. S. S. Palos, Hong Kong, China	29.73	755.1	78	25.6	95	e.			2		8		ese.					cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.73	755.1	80	26.7	96	e.			2		10		e.	0	0			cloudy.
S. S. Mexico, N. 22° 57′, W. 109° 20′†	29.92	760.0	76	24.4	73	nnw.			2		3		nw.			mod.	nw.	clear.
S. S. Coptic, N. 40° 51′, E. 160° 53′	30.28	769.1	44.0	6.7	80	nw.			3		8		nw.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Oceanic, N. 32° 30′, E. 133° 20′ *	29.98	761.5	71	21.7	80	ese.			5		8		sw.			4	e.	cloudy.
S. S. Willametta, Seattle, Wash. Ter *†	30.40	772.1	53	11.7	93	ssw.			1		8		sw.	0.54	13.7			rainy.
S. S. Ancon, N. 34° 36′, W. 120° 40′†	30.04	763.0	61	16.1	71	n.			2		0					mod.	wsw.	clear.
S. S. Dakota, N. 43° 48′, W. 124° 48′	30.23	767.8	53	11.7	93	nw.			6		10		nw.	0	0	r'gh	nw.	cloudy.
S. S. G. W. Elder, N. 46° 55′, W. 124° 45′†	30.34	770.6	50	10.0	93	var.			2		10					large	w.	overcast
S. S. Queen of the Pacific, N. 45° 45′, W. 124° 13′†	30.34	770.6				nnw.			4		5			0	0	h'vy	w.	fair.
S. S. State of California, San Francisco, Cal†	30.12	765.0	52	11.1	86	calm			0		0							clear.
S. S. City of Pekin, N. 45 27′, E. 168° 45′			40	4.4	91	nw.			4		10		n.	0	0	light	nw.	misty.
S. E. B. Sutton, N. 34° 00′ W. 134° 00′†	30.36	771.1	59	15.0	88	ne.			3		10		ne.	0	0	long	nw.	overcast.
S. S. City of Rio de Janeiro, N. 37° 36′, W. 135° 42′†	30.39	771.9	61	16.1	82	w.			1		8		w.	0	0	mod	s.	hazy.
S. S. Colima, N. 27° 04′ W. 114° 26′ †	29.93	760.2	61	16.1	77	nw.			3		1		w.	0	0	mod.		clear.
S. S. Granada, N. 7° 12′, W. 80° 35′	29.92	760.0	79	26.1	91	se.			3		3		s.	0	0	small	s.	clear.
S. S. San Blas, N. 23° 16′, W. 110° 36′			64	17.8		calm			0		6					mod.	nw.	fair.
S. S. San José, N. 15° 57′ W. 99° 47′ †	29.99	761.7	84	28.9		w.			2		2 h		sw.	0	0	long	ssw.	clear.
S. S. Gordon Castle, N. 8° 55′, E. 122° 00′ *	29.78	756.4	80.5	26.9	89	s.			3		10		s.					drizzling.
S. Armenia, N. 34° 15′ W. 134° 20′ *	30.24	768.1	61	16.1	82	ne.			4		10			0	0	long	nw.	cloudy.
Bk. Bore, Macassar, Celebes Id*†	29.21	741.9	85	29.4		ese.			1									
S. Grecian, N. 18° 03′, E. 133° 20′†	29.97	761.2	84	28.9	83	ene.			4		2		ene.	0	0	sm'h		clear.
S. S. Radnorshire, N. 2° 05′, E. 102° 06′ *†	29.76	755.9				se.			2		7			0	0	sm'h		fair.
S. Titan, N. 34° 09′, W. 139° 29′*†	30.38	771.6	67	19.4	89	ne.			4		5		ne.	c	0	long	nw.	fair.
Bk. Xenia, N. 25° 19′, E. 122° 45′			85	29.4		sw.			4		6		wsw.	0	0	sm'h	ne.	fair.
U. S. S. Ranger, N. 15° 18′, W. 93° 06′	29.89	759 2	81	27.2	87	ne.			2		5			0	0	long	sw.	fair.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W.			55	12.8	93	sw.			2		8							showery.
H. M. S. Espiegle, S. 15°56′, E. 176° 58′	29.95	760.7	78	25.6	91	e.			4		10					2	ne.	overcast
H. M. S. Kingfisher, S. 18° 10′, W. 147° 04′	29.88	758.9	79	26.1		ese.			1–3		5					4	se.	squally.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	30.09	764.3	54	12.2		ene.			1							1	ese.	d clouds.
H. M. S. Nelson, S. 33° 00′, E. 155° 50′	29.71	754.6	68	20.0	95	var.			1		7	w.				4	s.	d. clouds
U. S. S. Iroquois, Valparaiso, Chili	30.22	767.6	52	11.1	86	se.			2		2					sm'h		clear.
U. S. S. Lackawanna, S. 25° 43′, W. 120° 23′ *	29.80	756.9	59	15.0	76	sse.			6		10					mod.	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.13	765.3	65	18.3	89	se.			3		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.97	761.2	66	18.9	84	sse.	8	3.6			10		s.	0	0			misty.
U. S. S. Wachusetts, S. 16° 00′, W. 170° 56′	29.86	758.4	78	25.6	95	e.			3		8		se.			long	se.	cloudy.
S. S. Australia, S. 10° 07′, W. 169° 50′	29.85	758.2	81	27.2	96	se.			4		3		se.	2 h'r	2 h'r	mod.	se.	clear.
S. S. City of Sydney, Sydney, N. S. W*†	30.14	765.5	54	12.2	80	s.			2		3 n;k		s.	0	0			fair.
S. S. Zealandia, S. 35° 00′, E. 173° 58′	30.15	765.8	68	20.0	79	nw.			4		0					sm'h		clear.
S. David Crocket, S. 15° 18′, W. 107° 30′ *	29.91	759.7	73	22.8	85	ene.			6		7		ene.	10 h'r	10 h'r	r'gh	e.	showery
H. M. S. Lark, S. 25° 10′, E. 154° 25′	29.96	761.0	67.3	19.6		sse.			5		5					4	sse.	d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′ E. 44° 58′	29.76	755.9	85	29.4		ssw.			1		3	se.						d. clouds
H. M. S. Euryalus, Trincomalee, Ceylon	29.68	753.9	90	32.2	73	wsw.			3		3	wsw.						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.97	761.2	77	25.0	86	sse.			2		2	sse.				2	sse.	d. clouds.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.81	757.2	80	26.7	91	sw.			4		0							blue sky.
H. M. S. Woodlark, off Bushire, Persia	29.72	754.9	89	31.7	56	wnw.			4		4	sw.				2	sw.	misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony *	30.15	765.8	65	18.3	28	ese.			1		1		calm			sm'h		clear
U. S. S. Juniata, N. 22° 21′ E. 68° 13′	29.70	754.4	83	28.3	100	sw.			5		5		sw.	0	0	mod.	sw.	fair
S. S. Salerno, N. 12° 37′, E. 46° 05′ †	29.95	760.7	88	31.1		e.			2		6		ne.	0	0	sm'h	e.	fair.
Bk. Alpheus Marshall, S. 36° 16′, E. 23° 46′ *†	30.07	763.8				w.			3		2			2 h'r	2 h'r	str'g	s.	clear.
S. Annie M. Law, S. 24° 54′, E. 60° 30′ *†	30.23	767.8	70	21.1		se.			1		0			0	0	mod.	sw.	clear.
Bk. Ceylon, S. 32° 02′, E. 31° 30′ *†	30.29	769.4	73	22.8	67	e.			4		6		ese.	0	0	hv'y	sw.	fair.
S. Dynomene, S. 33° 44′ E. 27° 18′	30.20	767.1	64	17.8	89	calm			0		5			slight	slight	high	sw.	d. clouds.
S. S. Malabar, N. 4° 43′ E. 98° 58′						var.					10			0	0	sm'h		cloudy.
Bk. Pilgrim, Samarang, Java, Oceania*†	29.87	758.7				e.			3		1		e.	0	0			clear.
S. St. David, S. 19° 19′, E. 101° 50′ *†	30.02	762.5	78	25.6	95	e.			4		4		e.	0	0	long	ssw.	fair.
S. S. Foscolia, N. 7° 06′ E. 51° 54′ †	29.91	759.7				w.			3		2		nw.	0	0	sm'h	sw.	clear.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 21, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.99	761.7	78.4	25.8	85	s.			1		1			0	0	very fair	Malaterre.
Algiers			29.96	761.0	73.8	23.2	49	w.			3		4			0	0	cloudy	Thève.
La Calle			29.93	760.1	74.5	23.6	69	nw.			1		2			0	0	fair	Fonfrède.
Tunis			29.88	759.0															Jacques.
Saida			30.02	762.6															Pérès.
Tebessa			29.97	761.1	82.4	28.0	17	w.			4		1			0	0	very fair	St. Martin.
Geriville					83.8	28.8	5	wsw.			2		3			0	0	pretty fair	Forfert.
Laghouat			29.99	761.8	89.6	32.0	20	s.			1		1			0	0	very fair	Abraham.
Biskra			29.95	760.6	96.8	36.0	25	w.			3		3			0	0	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.22	767.6	50.4	10.2	62	ne.	12	5.4			7 k			0	0	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.14	765.5	30.23	767.8	47.4	8.6	92	se.	4	1.8			1			0.01	0.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.39	746.6	29.94	760.4	59.0	15.0	41	ne.			3		4			0.004	0.1	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.12	739.6	29.89	759.1	51.1	10.6	63	ssw.	12.5	5.6			8			0.106	2.7		Dr. Wierzbiski
Eperies	28.98	736.0	29.85	758.1	55.4	13.0	47	n.			2		10 ks			0.024	0.6		Julius Mikolik.
Gratz	28.72	729.6	29.97	761.1	57.2	14.0	49	nw.			7		8			0.012	0.3		Andreas Rospini.
Hermannstadt	28.33	719.5	29.78	756.3	42.4	5.8	100	nw.			2		10			1.543	39.2	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.71	729.1	30.05	763.2	52.7	11.5	49	nw.			3		9			0	0	covered	The Staff.
Lemberg	28.85	732.9	29.83	757.7	55.9	13.3	53	w.			3		10			inap.	inap.		Dr. T. Stanecki.
Neu Schmecks	26.47	672.3	29.84	757.8	44.6	7.0	61	se.			2		8			0	0		Dr. V. von Szontagh.
Pola	29.86	758.4	29.97	761.2	65.7	18.7	41	e.			4		2			0.012	0.3		I. R. Hydrographic Office.
Szathmar	29.34	745.1	29.79	756.6	56.1	13.4	54	n.			3		10			0.035	0.9		Joseph Midlinszky, S. J.
Szegedin	29.54	750.3	29.82	757.4	56.1	13.4	58	ne.			1		10			0	0		Karl Stancel.
Trieste	29.85	758.3	29.95	760.8	64.8	18.2	43	sw.			1		3			0.008	0.2		Royal Academy.
Vienna	29.28	743.7	30.00	761.9	55.4	13.0	53	wnw.			4		3			0.012	0.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.97	761.2	30.07	763.8	54.8	12.7	59	ese.	5	2.2			9			0	0	overcast	W. Boswell.
Armagh, Observatory	29.90	759.4	30.14	765.5	60.0	15.6	82	sw.	5	2.2			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.15	765.8	59.0	15.0	75	ese.	3	1.3			10					overcast	John Hartnup.
Bolton, Sharples	29.61	752.1	30.15	765.8	56.5	13.6	80	sse.					10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.74	755.4	30.14	765.5	55.1	12.8	79	sw.			2		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	86	30.0	65	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H. C.
Cardington	30.08	764.0	30.18	766.6	67.0	19.4	37	sw.			0.4		1					blue sky	John McLaren.
Chatham, School M. E.	30.07	763.8	30.20	767.1	59.2	15.1	66	ne.			1		5					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.92	760.0	30.15	765.8	59.6	15.3	74	e.			2		3					blue sky	The Staff.
Fort Napier, Natal	27.64	702.0	29.86	758.4	83.0	28.3	37	nw.			1		2					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.68	753.9	29.92	760.0	80.0	26.7	66	n.			1		6					showery	Sergt. C. E. Keane.
Galway, Queen's College	30.07	763.3	30.10	764.5	58	14.4	64	sw.			1		2			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.91	759.7	29.96	761.0	73.2	22.9	88	w.			1		5					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.90	759.4	30.10	764.5	59.6	15.6	70	w.			2		9					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	30.01	762.2	30.18	766.6	60.0	15.6	55	e.			1		4					d. clouds	The Staff.
Guernsey	29.91	759.7	30.21	767.3	62.5	16.9	64	nne.			1		8					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.16	766.1	30.19	766.8	61.8	16.6	58	ssw.	5	2.2			5					d. clouds	The Staff.
Leicester, Museum	29.89	759.2	30.14	765.5	64.0	17.8	49	sw.			1		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.72	754.9	29.80	756.9	69.2	20.7	92	nw.					c					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.82	757.4	29.87	758.7	76.5	24.7	71	sw.			1		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.65	753.1	30.17	766.3	56.9	13.8	80	s.			2		10					overcast	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.94	760.5	30.17	766.3	61.0	16.1	61	s.			1		7					d. clouds	The Staff.
Plymouth	30.07	763.8	30.14	765.5	62.8	17.1	66	e.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.92	760.0	30.02	762.5	51.5	10.8	79						1					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.71	754.6	29.78	756.4	78.0	25.6	54	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.88	758.9	30.15	765.8	63.4	17.4	64	ssw.			1		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.10	764.5	30.14	765.5	55.6	13.1	85	sw.			1		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.16	766.1	56.2	13.4	79	sw.	1	0.4			10					overcast	W. C. Carlisle.
Truro, Royal Institution	30.12	765.0	30.22	767.6	68	20.0	84	e.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.12	765.0	30.15	765.8	57.8	14.3	73	w.	9	4.0			6					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.45	748.0	29.85	758.2	67.3	19.6	70	w.	19.9	8.9		1 c		w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.71	754.6	29.75	755.6	56	13.3	90	s.	12	5.4			10 s		s.	0.030	0.8	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.62	752.3	29.68	753.9	63	17.2	78	sw.	12	5.4			10 ks		sw.	0.03	0.8	cloudy	G. A. Blair.
Cornwall, Ontario	29.47	748.5	29.66	753.4	42.8	6.0	97	ne.			1		10 n			0.200	6.6	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.54	750.3	29.59	751.6	53.5	11.9		calm			0		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	29.68	753.9	29.71	754.6	43	6.1	86	ne.	8	3.6			10 n			0.12	3.0	light rain	J. McWilliams.
Fort Garry, Manitoba*	29.32	744.7	30.18	766.6	34	1.1	96	s.	4	1.8		0	0			0	0	clear	James Stewart.
Fredericton, N. B	29.64	752.8	29.70	754.4	58.0	14.4	83	se.	9	4.0			10 s			0.030	0.8	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.58	725.9	29.71	754.6	35.0	1.7	100	ne.	2	0.9			10 n			0.05	1.3	raining	Jas. Grant.
Halifax, N. S*	29.69	754.1	29.82	757.4	48	8.9	100	calm	0	0			fg.			0.418	10.6	foggy	A. Allison.
Hamilton, Ontario	29.26	743.2	29.66	753.4	39.7	4.3	84	ne.			3	10 cs	0					raining	Geo. Dickson, B. A.
Kingston, Ontario*	29.34	745.2	29.68	753.9	40	4.4	82	n.	16	7.2			10 ks		ne.	0.05	1.3	light rain	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.84	757.9	29.88	758.9	58.6	14.8	90	sw.			3	7 ck	0	sw.		0	0	fair	C. H. Rigby.
Montreal, Quebec*	29.48	748.8	29.69	754.1	41	5.0	92	n.	20	8.9			10 n			0.44	11.2	raining	C. H. McLeod, C. E.
Ottawa, Ontario	29.48	748.8	29.73	755.1	40.0	4.4	86	n.			3		10 s					raining	A. McGill, M. A.
Parry Sound, Ontario*	29.14	740.1	29.85	758.2	34	1.1	71	ne.	17	7.6			10 ks			0.03	0.8	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.97	735.8	29.72	754.9	38.7	3.7	80	n.			4	0	9 ks			0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	28.93	734.8	29.63	752.6	38	3.3	100	ne.	28	12.5			10 n		ne.	0.17	4.3	light rain	H Morgan.
Port Stanley, Ontario	28.99	736.3	29.64	752 8	39	3.9	89	n.	16	7.2			10 n		ne.	0.11	2.8	light rain	M. Payne.
Quebec, Quebec*	29.28	743.7	29.64	752.8	44	6.7	100	n.	15	6.7			10 n			0.24	6.1	heavy rain	Capt. Ashe, R. N
Rockliffe, Ontario*	29.40	746.7	29.87	758.7	34	1.1	65	n.	6	2.7			10 s		ne.	inap.	inap.	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.64	752.8	29.69	754.1	47	8.3	99	se.	3	1.3			fg.			0.02	0.5	foggy	
St. John, N. B	29.55	750.6	29.71	754.6	51.0	10.6	93	sw.	2	0.9			fg.			0.040	1.0	foggy	G. Murdock, C. E.
Saint John's, N. F	29.97	761.2	30.22	767.6	58	14.4	76	sw.			3	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F			29.96	761.0	47.8	8.8		sw.			2					0	0		The Commandant
Saugeen, Ontario*	29.08	738.6	29.81	757.2	36	2.2	69	ne.	24	10.7			10 s			0	0	cloudy	
Stratford, Ontario	28.40	721.3	29.70	754.4	35.2	1.8	88	se.	8	3.6			10 s			0.026	0.7	d. clouds	O. J. Macgregor, M A
Sydney, C. B*	29.82	757.4	29.88	758.9	56	13.3	96	s.	6	2.7			10 s			0.25	6.3	clearing	T. C. Hill, C. E.
Toronto, Ontario*	29.34	745.2	29.73	755.1	38	3.3	89	n.	18	8.0			10 n			0.08	2.0	light rain	Magnetic Observatory.
Windsor, N. S	29.66	753.4	29.76	755.9	58.0	14.4	91	se.	12	5.4			10 n			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.60	726.4	29.68	753.9	36.7	2.6	90	n.	25	11.2			10 s			0.15	3.8	raining	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.66	753.4	29.73	755.1	55	12.8	100	e.	4	1.8			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N
London, Ontario	28.78	731.0	29.70	754.4	37.5	3.1	89	ne.			3		10 n			inap.	inap.	raining	E. B. Reed.

STATIONS.	Barometer. Corrected for instrument. error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.80	756.9	29.83	757.7	74.0	23.3	58	n.	10.7	4.8		6 c	0			0	0	fine	John Duthie.
Springbok Fontein	27.86	707.6			78	25.0	57	se.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.26	641.5																	A. Guelny.
Tchang-kia-tchouang	29.85	758.1	29.96	760.9	77.7	25.4	34	sw.			2		7			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.97	761.1	29.99	761.8	64.9	18.3	87	nne.	4.0	1.8		10 c	0	n.		0.043	1.1	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.95	760.6	29.99	761.8	55.9	13.3	51	n.	18	8			7						Oversergent Fischer.
Fanoe	30.04	763.0	30.06	763.5	51.3	10.7	99	w.			4		5						Overloerer Lauridsen.
Godthaab, Greenland	29.48	748.8	29.52	749.9	34.7	1.5	83	ssw			2		8						S. Kleinschmidt.
Jacobshavn, Greenland	29.58	751.3	29.63	752.5	34.9	1.6		calm			0		0						
Stykkisholm, Iceland	29.41	746.9	29.45	748.0	42.8	6.0	84	se.			4		10						A. O. Thorlacius.
Thorshavn	29.80	757.0	29.83	757.6	49.1	9.5	79	w.	19.0	8.5			5						Overloerer Bergh.
Vestervig	29.95	760.6	30.04	762.9	56.8	13.8	52	nnw			4		1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.81	757.2			88.2	31.2		nnw.	4.7	2.1		0	1 ks			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.52	749.7	30.15	765.9	72.0	22.2	59	ne.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.66	753.3	30.21	767.3	67.3	19.6	72	nw.			1	0	2 k		se	0	0		M. Nicot, Director.
Arras, Engineer School	29.85	758.3	30.11	764.8	57.4	14.1	51	ne.			8	0	0			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.93	760.1	30.00	762.1	70.2	21.2	49	nnw.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.62	752.3	30.17	766.4	59.4	15.2	43	n.			1		5 kn		ne.	0.028	0.7	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.95	760.6	30.21	767.4	61.0	16.1	44	e.			1		8		n.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.20	741.7	30.08	764.1	63.0	17.2	45	ene.			1	0	2 n		e.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.80	757.0	30.06	763.5	70.3	21.3	44	ene.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.58	751.2	30.12	765.0	64.4	18	36	ne.			3		1		ne.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.90	759.4	30.14	765.5	74.1	23.4	65	sw.			1		1		sw.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.07	763.8	30.14	765.6	63.7	17.6	68	se.			1		8		se.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.85	758.1	30.17	766.3	58.5	14.7	65	n.			2		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.67	753.5	30.18	766.5	59.4	15.2	51	ne.			2		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.75	730.3	30.09	764.3	62.6	17.0	36	n.			2		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.29	744.0	30.13	765.4	64.0	17.8	36	n.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.31	744.6	30.18	766.6	55.2	12.9	44	ne.			1		k	ne.	ne.	0.024	0.6		Dr. Coulet, Director.
Gap, Normal School	27.45	697.2	29.93	760.3	65.7	18.7	27	e.			2	1 c	0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.05	738.0	30.15	765.9	69.3	20.7	40	nw.			2		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.26	743.2	30.02	762.4	66.2	19	46	nw.			3		ck	0	nw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.56	725.5	30.11	764.8	60.8	16	41	ne.			1		0		wsw.	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.00	762.1	30.27	768.9	73.4	23.0	48	nw.			1		1		nw.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.45	748.0	30.00	761.9	76.3	24.6	49	e.			2	1 c	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.05	763.2	30.15	765.8	68.0	20.0	72	sw.			2		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.05	737.9	30.10	764.6	60.6	15.9	28	n.			2	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.86	758.4	30.17	766.2	65.3	18.5	58	sse.			3		5			0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.73	755.1	29.99	761.8	71.2	21.8	54	sw.			1		1			0	0		M. Stephan, Director.
Montlouis	24.89	632.3	29.74	755.3	65.3	18.5	37	e.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.85	758.2	29.97	761.3	73.8	23.2	55	n.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.40	746.8	30.18	766.5	57.2	14.0	53	nnw.			1	ck	0			0	0		M. Hasse, Director.
Nantes, Observatory	29.98	761.4	30.14	765.5	70.7	21.5	48	e.			0-2	0	6 k; kn		e.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.91	759.7	30.02	762.4	70.0	21.1	51	ne.	5.6	2.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.36	542.4			43.5	6.4		sw.			1		1		sw.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.15	740.3	30.05	763.2	64.8	18.2	37	n.			1	0	0			0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.22	640.7			39.7	4.3	75	ne.			3	0	0			0.008	0.2	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.06	763.4	30.09	764.2	71.6	22.0	43	ene.			3		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.85	758.2	30.06	763.6	70.2	21.2	50	e.			3		2		e.	0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.97	710.5	30.13	765.2	52.3	11.3	37	se.			3		1		se.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.19	766.8	30.24	768.0	63.0	17.2	48	se.			1		2	ese.		0	0	slightly cl'dy	M. Mouillot, Dir.
Saint Maur, Observatory	30.04	762.9	30.20	767.0	60.4	15.8	48	n.			1		6		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.37	746.1	30.10	764.5	73.0	22.8	42	nw.			1		0			0	0	clear	M. Bailland, Director.
Tours	29.97	761.3	30.15	765.8	69.4	20.8	39	n.			1		1	ne.	n.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.70	754.3	30.19	766.8	60.4	15.8	42	ne.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.89	759.2	30.04	763.0	77.0	25.0	45	e.	9.8	4.4		4 ck	0	sw.		0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.69	728.7	30.14	765.6	52.9	11.6	42	nw.			4		2	nw.		0	0		Prof. Jnedt.
Bamberg	29.24	742.6	30.08	764.0	58.1	14.5	70	nw.			2	0	6 k		wnw.	0	0		Prof. Dr. Hoh.
Berlin	29.88	759.0	30.03	762.7	56.1	13.4	56	nw.			2		7			0.209	5.3	light rain	Meteorological Institute.
Breslau	29.46	748.2	29.99	761.7	44.4	6.9	100	nw.			2		10			0.630	16.0	rain & fog	Royal University Obs'y
Carlsruhe	29.73	755.2	30.19	766.9	56.3	13.5	43	ne.			1		1	nw.		0	0		Albert Senz.
Cassel	29.39	746.4	30.10	764.5	55.0	12.8	39	nw.			4		5	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.13	765.4	57.2	14.0	42	nnw.			1		5			0	0		Physical Society.
Friedrichshafen	28.73	729.7	30.13	765.3	61.2	16.2	60	ssw.			1		4	wnw.		0.496	12.6		Wilhelm, Chief Tel.
Hamburg	30.02	762.4	30.11	764.7	54.0	12.2	64	nnw.			4		4			0.189	4.8		E. Preller.
Kiel	30.03	762.8	30.05	763.2	55.9	13.3	58	w.			2		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.67	753.7	30.10	764.4	54.3	12.4	59	nw.			3		6	wnw.		0.307	7.8		H. Leppig, Asst.
Magdeburg	29.90	759.4	30.02	762.4	55.2	12.9	59	w.			3		5	nw.					Dr. Assmann.
Memel	29.81	757.2	29.86	758.4	43.9	6.6	84	n.			4		10						Issermann.
Munich	28.30	718.7	30.17	766.2	54.1	12.3	43	nw.			1		4	w.		0.004	0.1		Central Station.
Neufahrwasser	29.93	760.1	29.94	760.5	45.1	7.3	79	n.			3		10			0	0		A. Lothes.
Neustadt, Palatinate	29.61	752.1	30.14	765.5	56.8	13.8	41	w.			3		4	w.		0	0		Dicknether.
Stuttgart	29.19	741.5	30.09	764.2	56.3	13.5	41	n.			1		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.07	763.8	30.10	764.4	52.3	11.3	72	sw.			3		10 s			0.059	1.5		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.44	747.8	29.82	757.4	70.0	21.1		s.			5.5	0	2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.43	747.4	29.48	748.7	88.1	31.2	87	w.	19.0	8.5			0			0	0	blue sky	
Deesa	29.05	737.8	29.50	749.3	98.8	37.1	31	wsw.	31.0	13.8			0			0	0		
Bombay	29.70	754.4	29.74	755.4	87.1	30.6	62	sw.	10.0	4.5			0			0	0	blue sky	
Poona, Yarrowda	27.87	707.9	29.68	753.9	89.3	31.8	33	sw.	4.4	2.0			0			0	0	blue sky	
Trichinopoly	29.42	747.3	29.70	754.4	82.0	27.8	79	w.	1.0	0.4			10	ene.	ene.	0.08	2.0	overcast	
Belgaum	27.22	691.4	29.72	754.8	82.8	28.2	55	ne.	9.0	4.0			0			0	0	blue sky	
Lahore	28.64	727.5	29.33	745.0	108.8	42.7	11	calm	0	0			0			0	0	gloomy	
Roorkee	28.56	725.5	29.41	747.1	101.7	38.7	23	s.	5.0	2.2			0			0	0		
Agra	28.88	733.6	29.41	747.1	106.1	41.2	20	ne.	8.0	3.6			7		ne.	0	0	d. clouds	
Nagpur	28.48	723.3	29.46	748.2	107.2	41.8	11	wnw.	20.0	8.9			9		w.			drizzling	
Jubbulpore	28.19	715.9	29.46	748.3	107.2	41.8	11	nw.	8.0	3.6			5		nw.	0	0	d. clouds	
Lucknow	29.12	739.6	29.48	748.7	102.4	39.1	47	ese.	2.0	0.9			0			0	0	blue sky	
Allahabad	29.16	740.6	29.46	748.2	104.3	40.2	30	ne.	4.0	1.8			2			0	0	d. clouds	
Patna	29.41	747.0	29.59	751.6	87.4	30.8	49	e.	13.4	6.0			2	e.	e.	0	0		
Hazaribagh	27.57	700.4	29.54	750.4	83.6	28.7	68	ese.	10.7	4.8			10			0.03	0.8	drizzling	
Cuttack	29.43	747.6	29.51	749.6	92.0	33.3	60	sw.	4.0	1.8			7		s.	0	0	d. clouds	
Calcutta, Alipore	29.60	751.8	29.62	752.3	84.5	29.2	72	ese.	11.0	4.9			10			0	0	overcast	
Dhubri	29.57	751.1	29.69	754.1	77.1	25.1	80	e.	14.4	6.4			0			1.29	32.8	blue sky	
Chittagong	29.58	751.4	29.67	753.7	74.6	23.7	83	nw.	3.6	1.6			9			0	0	d. clouds	
Sibsagar	29.41	747.0	29.75	755.6	79.1	26.2	82	sw.	2.0	0.9			6	e.	e.	0	0	d. clouds	
Seypore	28.04	712.1	29.39	746.5	106.9	41.6	20	wnw.	21.7	9.7			7	wnw.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Bellary	28.18	715.8	.....	.....	104.0	40.0	17	w.	12	5.4	.....	3 c	2	.....	.....	0	0	blue sky	
Zanzibar	.....	.....	29.98	761.5	80.7	27.1	83	ssw.	14.0	6.3	.....	.....	5	.....	ne.	0.35	8.9	d. clouds	
ITALIAN.																			
Udine	29.57	751.1	29.97	761.3	66.6	19.2	29	sw.	3.1	1.4	.....	.....	8	.....	.....	0	0	.....	Prof. Giovanni Olodis.
Milan	29.49	749.1	30.00	762.0	66.4	19.1	38	ssw.	4.9	2.2	.....	.....	1	se.	.....	0	0	.....	Prof. G. V. Schiapparelli.
Padua	29.89	759.1	29.99	761.8	64.0	17.8	33	sw.	4.9	2.2	.....	.....	6	nne.	.....	0.051	1.3	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.10	739.1	29.99	761.7	66.6	19.2	53	se.	3.1	1.4	.....	.....	6	e.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.77	756.1	29.96	761.0	68.7	20.4	39	se.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi
Mondovi	28.09	713.6	29.98	761.4	63.5	17.5	40	s.	.....	.....	2	.....	4	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.98	761.4	30.02	762.6	59.4	15.2	72	ne.	6.3	2.8	.....	.....	1	nw.	.....	0.276	7.0	.....	Prof. Luigi Guidi.
Florence	29.72	755.0	29.98	761.4	64.4	18.0	25	ne.	.....	.....	6	.....	0	.....	.....	0.591	15.0	.....	Prof. Costantino Pittei.
Leghorn	29.83	757.6	29.91	759.7	67.6	19.8	71	ne.	12.5	5.6	.....	.....	3	.....	.....	0.043	1.1	.....	Prof. P. Monte.
Rome	29.68	753.8	29.85	758.1	70.2	21.2	21	n.	20.6	9.2	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.62	752.3	29.87	758.7	60.8	16.0	52	nw.	15.0	6.7	.....	.....	10	nw.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.93	734.7	29.79	756.6	76.3	24.6	69	sse.	2.5	1.1	.....	.....	9	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.68	753.8	29.87	758.6	73.8	23.2	56	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.58	751.2	29.82	757.5	72.0	22.2	42	wnw.	17.4	7.8	.....	.....	1	w.	.....	0	0	.....	Prof. G. Caccatore.
Syracuse	29.73	755.1	29.77	756.2	70.7	21.5	53	nne.	9.8	4.4	.....	.....	5	e.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.32	744.8	29.84	757.8	67.1	19.5	47	n.	4.9	2.2	.....	.....	1	ne.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.11	561.5	.....	.....	26.6	— 3.0	60	ne.	.....	.....	2	.....	4	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	22.14	562.3	.....	.....	41.0	5.0	63	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.05	763.3	30.08	764.2	64.1	17.8	51	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. Hattori.
Awomori	30.06	763.5	30.10	764.5	50.5	10.3	92	n.	1.2	0.5	.....	4 cs	0	.....	.....	0	0	fair	K. Ogawa.
Hamamatsu	30.04	763.0	30.07	763.7	64.8	18.2	78	e.	.....	.....	2	5 cs	5 s	w.	w.	0	0	overcast	
Kagoshima	29.87	758.6	29.88	758.9	67.5	19.7	85	ne.	.....	.....	2	.....	10 h	.....	.....	0.804	20.4	light rain	G. Miyanonaza.
Kioto	29.88	758.9	30.05	763.2	66.4	19.1	62	ene.	4.8	2.1	.....	9 cs	1 ck	w.	e.	0	0	cloudy	M. Tojima.
Miasaka	29.89	759.2	29.92	759.9	66.9	19.4	95	ese.	.....	.....	2	.....	10 n	.....	ese.	3.811	96.8	raining	K. Masusaki.
Miyako	30.05	763.2	30.16	766.0	56.5	13.6	75	wsw.	2.0	0.9	.....	0	0	.....	.....	0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.72	754.9	29.92	759.9	64.1	17.8	95	nne.	7.8	3.5	.....	.....	10 n	.....	.....	0.360	9.2	raining	S. Takehayashi.
Niigata	29.99	761.7	30.02	762.5	68.7	20.4	55	se.	11.7	5.2	.....	0	0	.....	.....	0	0	.....	M. Morita.
Nobiru	30.15	765.8	30.17	766.2	59.6	15.3	93	se.	11.9	5.3	.....	0	0	.....	.....	0	0	clear	H. Midzushina.
Numazu	30.07	763.7	30.10	764.6	65.1	18.4	69	ese.	.....	.....	4	5 cs	5 ks	.....	ne.	0	0	cloudy	R. Kaneda.
Osaka	30.01	762.3	30.03	762.7	65.3	18.5	62	ene.	12.3	5.4	.....	5 cs	5 s	w.	.....	0	0	cloudy	H. Omura.
Tokei Obs'y, Yeddo	30.04	763.1	30.12	765.0	61.9	16.6	89	ene.	4.4	2.0	.....	8 c;cs	ck	.....	ne.	0	0	cloudy	The Staff.
Wakayama	29.95	760.7	30.00	762.0	65.3	18.5	75	calm	0	0	.....	10 ck	0	w.		0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.15	765.8	75.2	24.0	58	ese.	17.0	7.6	.....	1 cs	2 k	w.	ese.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.66	600.9	29.88	758.9	59.9	15.5	88	ene.	inap.	inap.	.....	.....	10 kn	.....	sw.	inap.	inap.	covered	Prof. Vicente Fernandez.
Leon	24.33	618.0	29.96	761.0	61.7	16.5	87	sse.	2.0	0.9	.....	.....	10 n	.....	.....	0.465	11.8	covered	Prof. M. Leal.
Mazatlan	29.62	752.3	29.88	758.9	71.5	21.9	64	ese.	0.9	0.4	.....	5 cs	0	sw.	.....	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	70	21.1	84	nw.	7.2	3.2	.....	.....	10 ks	.....	.....	0.05	1.3	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.24	768.0	30.24	768.0	53.6	12.0	.....	w.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Groningen	30.12	767.1	30.18	766.5	50.0	10.0	.....	nnw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	30.20	767.1	30.20	767.1	49.5	9.7	.....	nw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helleveetsluis	30.19	766.7	30.19	766.7	55.4	13.0	52	w.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	30.18	766.6	30.23	767.8	56.3	13.5	48	w.	.....	.....	2	.....	5	.....	.....	0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.82	757.3	.....	.....	79.3	26.3	78	ne.	0	0	.....	.....	0	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.94	760.4	30.00	762.0	51.8	11.0	47	w.	11	5	.....	.....	4	.....	.....	0	0	.....	
Brono	29.95	760.8	29.99	761.7	43.5	6.4	68	nnw.	.....	.....	4	.....	9	.....	.....	0	0	.....	
Christiania	29.81	757.2	29.96	760.9	58.8	14.9	39	sw.	11	5	.....	.....	9	.....	.....	0	0	.....	
Gjesvær	29.98	761.5	30.00	762.1	37.4	3.0	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.90	759.5	29.95	760.7	46.4	8.0	56	e.	.....	.....	0–2	.....	9	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.57	751.1	29.73	755.1	60.6	15.9	83	n.	15.0	6.7	.....	.....	7	.....	.....	0.571	14.5	.....	Dr. J. A. Sampaio.
Campo Major	29.04	737.6	30.02	762.6	64.4	18.0	92	ese.	0.7	0.3	.....	.....	10	.....	.....	0.283	7.2	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.92	760.0	30.01	762.2	64.8	18.2	68	sw.	.....	.....	.....	.....	1	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.66	753.4	29.99	761.8	67.8	19.9	86	wsw.	8.7	3.9	.....	.....	8	.....	.....	0.157	4.0	.....	The Staff.
Ponta Delgada, Azores	29.65	753.0	29.72	754.8	62.6	17.0	72	nne.	9.8	4.4	.....	.....	3	.....	.....	0.480	12.2	.....	
Saint Paul de Loando	29.66	753.3	29.85	758.3	81.0	27.3	93	sse.	1.8	0.8	.....	.....	3	sse.	.....	0	0	.....	
Serra da Estrella	25.30	644.2	30.10	764.0	48.7	9.3	100	ese.	19.9	8.9	.....	.....	10	.....	.....	0.417	10.6	rain & fog	
RUSSIAN.																			
Akmolinski	28.81	731.8	29.83	757.6	78.8	26.0	25	e.	4	2	.....	5 ck	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.48	748.9	29.50	749.4	47.8	8.8	87	sw.	18	8	.....	.....	10	.....	.....	0.472	12.0	raining	Capt. Sseliwerstow.
Ashurada	29.98	761.4	29.88	759.0	85.8	29.9	68	calm	0	0	.....	0	7	.....	.....	blank	blank	light clouds	
Astrakhan	29.98	761.6	29.90	759.5	83.5	28.6	33	sse.	2	1	.....	0	4 ks	.....	.....	blank	blank	.....	Capt. Wisganow.
Baku	29.92	760.0	29.87	758.8	75.9	24.4	68	ese.	9	4	.....	0	1 s	.....	.....	0	0	.....	
Barnaul	29.69	754.1	30.19	766.8	52.7	11.5	14	nw.	9	4	.....	.....	4	.....	.....	0	0	light clouds	Meteorological Obs'y
Bielosersk	29.17	740.8	29.62	752.4	56.3	13.5	57	ssw.	16	7	.....	0	8 kn	.....	.....	0	0	.....	
Dorpat	29.39	746.5	29.63	752.7	48.6	9.2	74	nw.	7	3	.....	.....	10 k	.....	.....	0.016	0.4	.....	Observatory.
Ekaterinburg	28.91	734.4	29.82	757.5	78.3	25.7	35	se.	11	5	.....	ck	6 k	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	29.43	747.4	29.87	758.8	55.8	13.2	80	e.	9	4	.....	.....	10 sn	.....	.....	0.142	3.6	.....	
Irkutsk	28.43	722.2	30.10	764.6	41.5	5.3	64	nnw.	.....	.....	4	.....	10	.....	.....	blank	blank	.....	
Kasalinsk	29.30	745.7	29.54	750.2	91.0	32.8	45	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.48	748.9	29.74	755.3	78.8	26.0	38	w.	4	2	.....	0	1 k	.....	.....	0	0	.....	Observatory.
Kem	29.58	751.4	29.63	752.7	34.2	1.2	94	n.	45	20	.....	.....	10 n	.....	.....	0.055	1.4	.....	
Kertch	29.88	758.9	29.90	759.5	67.6	19.8	70	se.	4	2	.....	0	3 k	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	29.20	741.0	29.82	757.3	63.0	17.2	41	sw.	7	3	.....	0	5 ks	.....	.....	1.236	31.4	.....	Observatory.
Koslov	29.31	744.4	29.84	757.8	61.2	16.2	63	nne.	16	7	.....	0	8 k	.....	.....	0	0	.....	
Liban	29.80	756.8	29.82	757.4	42.4	5.8	84	nw.	16	7	.....	.....	9	.....	.....	blank	blank	.....	E. Quasa.
Lugan	29.60	751.7	29.77	759.2	76.1	24.5	60	wsw.	13	6	.....	.....	4	.....	.....	0.276	7.0	.....	Meteorological Obs'y.
Moscow	29.31	744.4	29.77	756.2	59.7	15.4	34	sw.	11.2	5.0	.....	0	5 ks	.....	.....	0.020	0.5	.....	Meteorological Obs'y
Nikolaiev	29.78	756.5	29.86	758.4	60.1	15.6	94	calm	0	0	.....	.....	10 n	.....	.....	0.055	1.4	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.48	748.8	29.57	751.0	35.6	2.0	94	ne.	9	4	.....	.....	10	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.80	756.8	29.94	760.4	70.7	21.5	34	ne.	2.2	1.0	.....	1 cs	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.54	750.4	29.87	758.7	91.4	33.0	20	wnw.	1.1	0.5	.....	.....	10 k	.....	.....	0	0	.....	
Petrozavodsk	29.32	744.7	29.52	749.7	45.7	7.7	93	se.	7	3	.....	.....	9 k	.....	.....	0.606	15.4	.....	Dr. Bergmann.
Pinsk	29.35	745.4	29.84	757.9	55.2	12.9	54	sw.	9	4	.....	0	8 ks	.....	.....	0.020	0.5	.....	
Poti	29.88	759.0	29.91	759.8	77.2	25.1	65	e.	4	2	.....	0	0	.....	.....	0.020	0.5	.....	
St. Petersburg	29.55	750.6	29.58	751.2	47.3	8.5	74	nw.	13	6	.....	0	5 k	.....	.....	0.322	8.2	.....	Central Physical Obs'y.
Samarkand	27.43	698.1	29.82	757.4	81.0	27.2	51	calm	0	0	.....	5 c	0	.....	.....	0	0	.....	
Semipalatinsk	29.44	747.8	30.08	761.4	66.7	19.3	20	sw.	4	2	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.62	752.3	29.84	757.9	67.6	19.8	58	s.	27	12	.....	0	1 k	.....	.....	0.016	0.4	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Starol Bykhov	29.39	746.6	29.84	758.0	61.5	16.4	46	sw.	20	9			10kn			0.091	2.3		
Tashkend	28.23	717.0	29.76	755.9	92.8	33.8	24	calm	0	0		0	2 s			0	0		Terch, A. M.
Tiflis	28.56	725.3	29.91	759.7	76.6	24.8	48	nnw.	4	2			10 n			0.008	0.2		Physical Observatory.
Vernoe	27.33	694.2	29.71	754.6	74.8	23.8	46	ne.	2	1		0	8 n			0	0		
Viatka	29.10	739.0	29.70	754.3	71.6	22.0	52	wsw.	2	1			2			0	0		
Warsaw	29.41	747.1	29.84	758.0	46.4	8.0	86	wnw.	9	4			9 kn			0.157	4.0	light rain	Astronomical Obs'y.
Yeniseisk	29.95	760.7	30.25	768.3	30.9	— 0.6	70	w.	4	2			10			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.05	763.3	54	12.2	93	sw.			4	5	3	sw.		0	0	cloudy	J. Youngclause.
North Unst			30.00	762.0				sw.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.97	761.2	30.07	763.8	70.2	21.2	59	se.	2.9	1.3		0	1			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.95	760.6	30.00	762.1	81.5	27.5	48	w	2.7	1.2		2	7	nw.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.10	688.4	29.95	760.7	73.9	23.3	48	calm	4.5	2.0			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.0	29.96	760.9	80.6	27.0	44	sw.	12.8	5.7			9			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.82	757.5	29.96	761.0	77.5	25.3	55	ene.	4.5	2.0		5	5			0	0	foggy	Olayo Diaz, Director.
Oviedo	29.19	741.3	30.04	762.9	68.0	20.0	78	n.	9.8	4.4		6 n	6 k	s.	s.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.08	738.7	29.95	760.9	67.1	19.5	62	se.	5.6	2.5			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.80	756.8	29.86	758.5	70.2	21.2	81	wsw.	5.6	2.5		2 cs	0	wnw.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	756.8	29.85	758.3	80.5	26.9	81	se.	24.6	11.0			9 kn		ese.	0	0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.5	30.04	763.0	73.2	22.9	78	calm	0	0			10		se.	0.029	0.7		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.34	757.8	29.93	760.1	79.5	26.4	89	calm	0	0		2 c	2 k	se.	se.	0.039	1.0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.84	757.9	29.88	758.9	45.3	7.4	50	ne.			6		0			0	0		
Umea	29.82	757.5	29.87	758.8	45.7	9.6	49	ese.			6		5			0	0		
Hernosand	29.84	757.9	29.89	759.2	52.5	11.4	52	ese.			2		8			0.008	0.2		
Stockholm	29.69	754.2	29.87	758.7	47.5	8.6	35	n.			7		2			0.020	0.5		
Wisby	29.78	756.4	29.84	757.9	41.4	5.2	87	nw.			4		10			0.071	1.8		
Sub-series.																			
Upsala	29.79	756.6	29.87	758.8	48.2	9.0	83	nne.	19.9	8.9			0			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.68	728.5	30.09	764.3	59.0	15.0	37	n.			4		0			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			29.80	756.9	77.4	25.2	53	sw.	12	5.5			2		sw.	0	0		The Observatory.
Valona			29.99	761.8	65.3	18.5		ne.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.04	762.9	74.8	23.8	65	w.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.54	674.1			44	6.7	93						10 n		w.			raining	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.50	749.3	29.58	751.3	63.2	17.3	84	s.	3	1.3			10 n		s.	0.03	0.8	light rain	J. O. Barnes.
Alpena, Michigan	29.30	744.2	29.96	761.0	32	0.0	78	n.	22	9.8		7 k	2 s	ne.		0.04	1.0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.14	630.5	29.96	761.0	44	6.7	71	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.08	687.8	29.92	760.0	52	11.1	61	s.	5	2.2		3 c	0	sw.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.48	723.4	29.65	753.1	53.0	11.7	80	w.	14	6.3			10 s		w.	0.33	8.4	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.55	750.6	29.56	750.8	54	12.2	100	e.	8	3.6			fg.			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	29.43	747.5	29.62	752.3	65	18.3	63	w.	12	5.4		2 k	0	sw.		0	0	clear	John Healy.
Baltimore, Maryland	29.49	749.0	29.54	750.3	61	16.1	87	se.	8	3.6			10 s			0	0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	29.57	751.1	29.59	751.6	54.5	12.5	100	e.	9	4.0			10n; fg			0.03	0.8	light rain	G. A. Hill.
Behring Id., Behring Sea	29.76	755.9	29.78	756.4	34.3	1.3		nw.	12	5.4		2 ck	7 k		n.	0.01	0.3	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.59	726.2	30.15	765.8	39.0	3.9	92	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.22	691.4	30.01	762.2	49	9.4	32	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.77	679.9	29.95	760.7	45	7.2	63	calm	0	0		5 c	4 s	nw.	w.	0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.31	719.1	30.10	764.5	46	7.8	76	e.	4	1.8		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.60	751.8	29.62	752.3	53	11.7	93	s.	8	3.6			fg.			0.05	1.3	dense fog	J. T. Elker.
Boise City, Idaho	27.22	691.4	30.06	763.5	50	10.0	66	ne.	4	1.8		0	3 s			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.45	748.0	29.61	752.1	59.0	15.0	87	se.	6	2.7		5 ck	4 s; hz			0.05	1.3	cloudy	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	69.5	20.8	61	n.	8	3.6		3 c	0	w.		0.02	0.5	clear	M. McCarty.
Buffalo, New York	28.89	733.8	29.63	752.6	49	9.4	96	ne.	15	6.7			10 n		ne.	0.28	7.1	light rain	W. Finn.
Buford, Fort, Dakota	28.11	714.0	30.09	764.3	50	10.0	80	e.	1	0.4		7 ck	0			0	0	fair	F. A. Mellen.
Burlington, Vermont	29.36	745.7	29.65	753.1	43.0	6.1	93	n.	15	6.7			10 n		w.	0.25	6.3	light rain	D. N. Farnell.
Cairo, Illinois	29.45	748.0	29.85	758.2	44.8	7.1	70	n.	14	6.3			10 s		n.	0.09	2.3	cloudy	W. H. Ray.
Cape Henry, Virginia	29.49	749.0	29.51	749.5	61	16.1	100	sw.	16	7.2			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.51	749.5	29.54	750.3	58.0	14.4	86	e.	14	6.3			10s; fg			0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.36	745.7	30.04	763.0	48	8.9	100	nw.			7		fg.		nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	29.66	753.4	29.68	753.9	70.0	21.1	72	nw.	15	6.7		3 c	1 k	nw.		0.26	6.6	fair	G. W. Davis.
Charleston, S. Carolina	29.48	748.8	29.53	750.0	74.8	23.3	76	sw.	13	5.8			8 ks		sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.62	726.9	29.46	748.3	69.0	20.0	66	sw.	10	4.5			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	28.84	732.5	29.65	753.1	54.0	12.2	74	w.	6	2.7		0	9 ks		w.	0.23	5.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.22	615.2	30.08	764.0	37.8	3.2	75	nw.	3	1.3		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.16	740.7	29.86	758.4	37.1	2.8	80	ne.	20	8.9			10 s		ne.	0	0	cloudy	John Laurens.
Chincoteague, Virginia	29.51	749.5	29.53	750.0	54	12.2	100	se.	6	2.7			10s; fg			inap.	inap.	cloudy	C. F. Dickens.
Cincinnati, Ohio	28.91	734.3	29.56	750.8	48.0	8.9	93	n.	8	3.6			10 n			1.07	27.2	light rain	L. Dunne.
Cleveland, Ohio	28.81	731.8	29.54	750.3	42.5	5.8	87	n.	18	8.0			10 n			0.37	9.4	light rain	J. B. Newlin.
Coleman City, Texas	28.33	719.6	30.12	765.0	52	11.1	80	nw.	8	3.6		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	28.63	727.2	29.47	748.5	43	6.1	100	n.	14	6.3			10 n		n.	1.37	34.8	light rain	D. Cuthbertson.
Concho, Fort, Texas	28.24	717.3	30.14	765.5	50.0	10.0	93	nw.	2	0.9		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.32	744.7	29.96	761.0	30	2.2	69	ne.	16	7.2			10 s		ne.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.30	642.6	30.02	762.5	52	11.1	74	n.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.39	721.1	30.14	765.5	53	11.7	80	sw.	4	1.8		10 k	0			0.16	4.1	cloudy	D. Moore.
Deadwood, Dakota	25.46	646.6	29.98	761.5	47	8.3	66	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	29.53	750.0	29.55	750.6	54	12.2	100	se.	16	7.2			fg.			inap.	inap.	dense fog	T. S. Townsend.
Denver, Colorado	24.92	633.0	30.08	764.0	46.0	7.8	74	s.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.07	763.8	37	2.8	61	n.	7	3.1		0	0			0.08	2.0	clear	F. W. Conrad.
Detroit, Michigan	28.98	736.1	29.68	753.9	37.0	2.8	82	nw.	28	12.5			10 s		nw.	0.01	0.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.60	701.0	30.15	765.8	43	6.1	76	w.	4	1.8		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.32	744.7	30.02	762.5	34.8	1.6	58	n.	11	4.9		0	8 ks		ne.	0.01	0.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.46	748.3	30.21	767.3	30	2.2	69	ne.	12	5.4		0	9 s		ne.	0.01	0.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.38	746.2	30.18	766.6	60.1	15.6	65	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.44	646.2	30.12	765.0	42	5.6	55	n.	4	1.8		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	29.64	752.8	29.72	754.9	48.0	8.9	100	s.	8	3.6			fg.		s.	0.12	3.0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.39	695.7	30.09	764.3	43	6.1	68	ne.	8	3.6		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.41	670.8	30.05	763.3	62.0	16.7	38	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.85	732.8	29.57	751.1	42	5.6	92	ne.	28	12.5			10 n			0.20	5.1	light rain	C. A. Shaw.
Escanaba, Michigan	29.41	747.0	30.07	763.8	32.5	0.3	68	n.	30	13.4			10ks; s		n.	0	0	cloudy	George Heathcote.
Galveston, Texas	29.98	761.5	30.02	762.5	62	16.7	72	nw.	12	5.4		5 cs	0	nw.		0.01	0.3	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.21	741.9	29.87	758.7	37.0	2.8	72	n.	19	8.5			10 ks		n.	0.01	0.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.30	642.6	29.92	760.0	58.4	14.7	39	calm	0	0		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.55	750.6	29.57	751.1	67	19.4	90	se.	12	5.4		3 c	8 k			0	0	clear	R. M. Crawford.
Helena, Montana	25.78	654.8	29.95	760.7	50	10.0	59	sw.	3	1.3		3 c	0	calm		0	0	clear	N. C. Smith.
Huron, Dakota	28.79	731.3	30.14	765.5	41	5.0	64	nw.	3	1.3		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	28.85	732.8	29.64	752.8	44.0	6.7	83	nw.	9	4.0			10 s		nw.	0.43	10.9	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.03	762.7	30.06	763.5	66.1	18.9	56	n.	15	6.7		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.90	734.0	30.05	763.3	50	10.0	59	n.	4	1.8		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	29.61	752.1	29.65	753.1	75.5	24.2	74	sw.	7	3.1		5 k	0	w.		0	0	fair	J. W. Smith.

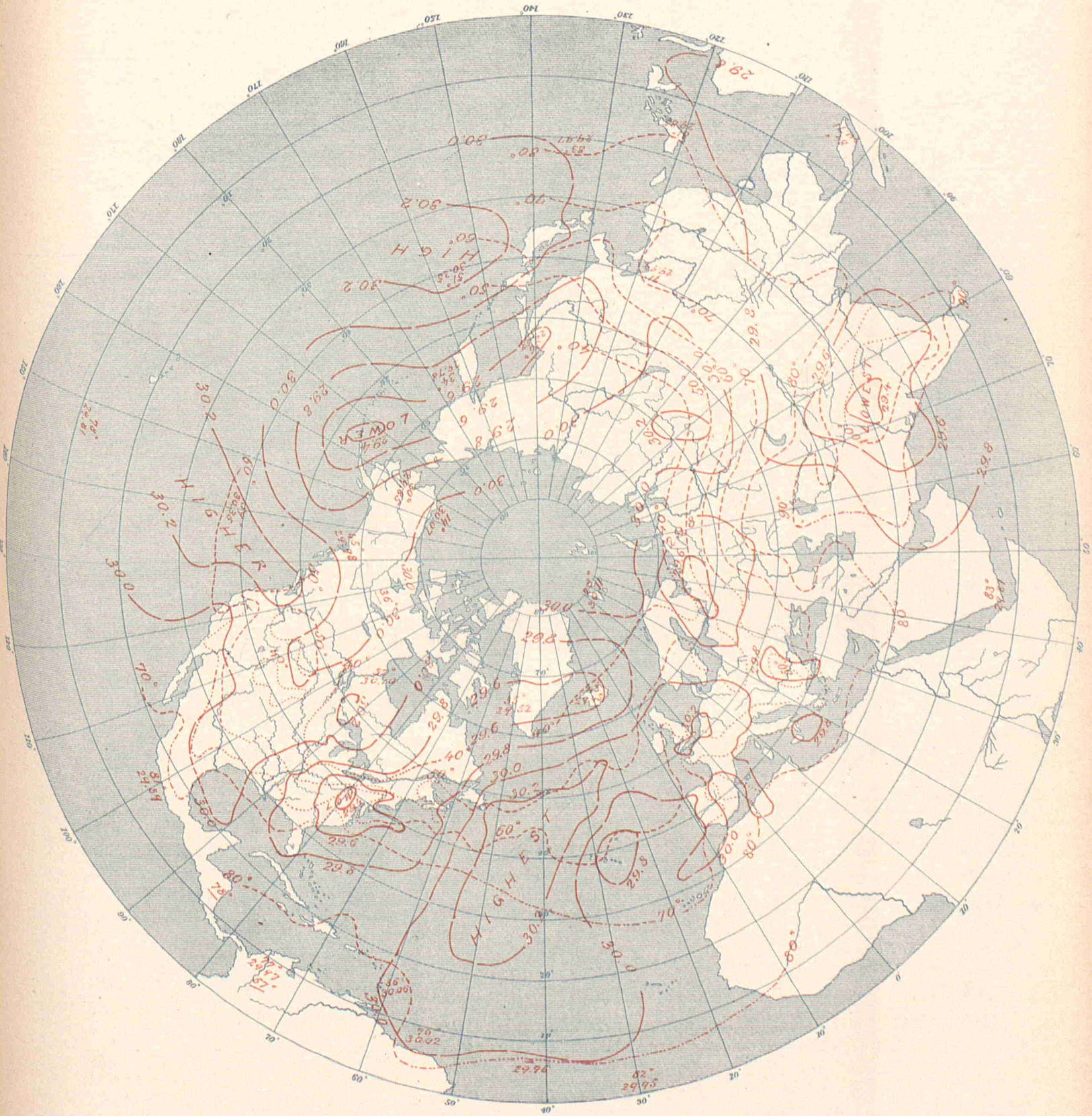
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.50	698.5	29.94	760.5	51	10.6	74	w.	4	1.8		0	4s;ks			0	0	fair	W. B. Lamar.
Keokuk, Iowa	29.30	744.2	29.94	760.5	40.0	4.4	73	n.	15	6.7			10 s		n.	0.04	1.0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.79	756.7	29.81	757.2	78.5	25.8	69	sw.	11	4.9		2 cs	3 ks		sw.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.55	750.6	29.57	751.5	66.5	19.2	100	sw.	10	4.5		5 c;k	1 s	sw.		0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	28.57	725.7	29.59	751.6	53.3	11.8	85	sw.	10	4.5			10 s		w.	0.38	9.7	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.00	762.0	35	1.7	69	n.	12	5.4		0	0			0.01	0.3	clear	S. C. Emery.
Leavenworth, Kansas	29.19	741.4	30.07	763.8	44	6.7	60	n.	5	2.2		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.25	742.9	30.09	764.3	60.3	15.7	87	s.	1	0.4			10 s		sw.	0.30	7.6	cloudy	W. Bell.
Little Rock, Arkansas	29.58	751.3	29.89	759.2	53	11.7	61	n.	16	7.2			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.55	750.6	29.95	760.7	63	17.2	46	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.07	738.4	29.62	752.3	43	6.1	93	n.	16	7.2			10 s		nw.	1.14	29.0	cloudy	L. M. Dey.
Lynchburg, Virginia	28.72	729.5	29.40	746.7	67	19.4	84	s.	6	2.7			10 n		s.	0.08	2.0	light rain	Louis Duane.
Mackinaw City, Michigan	29.37	746.0	30.02	762.5	33.0	0.6	50	ne.	16	7.2		0	8 s		ne.	0.02	0.5	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.53	750.0	29.54	750.3	68.0	20.0	93	s.	14	6.3		5 cs	0	sw.		0	0	fair	William Daly.
Maginnis, Fort, Montana	25.51	647.9	29.92	760.0	54	12.2	45	w.	2	0.9		10 k	0			0	0	cloudy	F. Burke.
Marquette, Michigan	29.40	746.7	30.12	765.0	33	0.6	88	n.	13	5.8			10 s		n.	0.11	2.8	cloudy	E. H. Thompson.
Memphis, Tennessee	29.47	748.5	29.80	756.9	50	10.0	93	nw.	4	1.8			10 s		w.	0.52	13.2	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.21	741.9	29.95	760.7	34	1.1	78	ne.	29	13.0			10 s		ne.	inap.	inap.	cloudy	W. Line.
Missoula, Fort, Montana	26.82	681.2	30.12	765.0	52	11.1	80	nw.	2	0.9			10 n			0.10	2.5	light rain	J. H. Young.
Mobile, Alabama	29.78	756.4	29.82	757.4	60.5	15.8	61	nw.	7	3.1		0	0			0.14	3.6	clear	C. A. Read.
Montgomery, Alabama	29.48	748.8	29.71	754.6	57	13.9	77	nw.	8	3.6		7 k	0	nw.		0.59	15.0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.16	740.7	30.14	765.5	40.2	4.6	73	calm	0	0		5 cs	0			0	0	clear	H. Bessaut.
Mt. Washington, N. H.	23.54	597.9	29.72	754.9	45.7	7.6	95	sw.	30	13.4		5 c	fg.	w.	sw.	0	0	fair	S. W. Beall.
Nashville, Tennessee	29.10	739.1	29.67	753.6	52.0	11.1	96	nw.	12	5.4			10 n		nw.	1.33	33.8	light rain	L. N. Jesunofsky.
New Haven, Connecticut	29.50	749.3	29.62	752.3	53	11.7	100	se.	4	1.8			10n;fg			0.01	0.3	light rain	J. H. Sherman.
New London, Connecticut	29.59	751.6	29.64	752.8	54	12.2	100	e.	6	2.7			fg.			0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	29.79	756.7	29.84	757.9	66.5	19.2	50	nw.	10	4.5		1 c	2 k	w.	nw.	0.60	15.2	clear	H. C. Smyth.
New York, New York	29.45	748.0	29.63	752.6	54	12.2	96	e.	3	1.3			10s;fg			0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	29.48	748.8	29.50	749.3	67	19.4	90	se.	9	4.0		5 cs	hz.			0	0	fair	Wm. Davis.
North Platte, Nebraska	27.28	692.9	30.14	765.5	42.6	5.9	82	w.	4	1.8		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.23	767.8	30.27	768.8	46.0	7.8	83	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.12	765.0	45.0	7.2	68	n.	2	0.9		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.05	763.3	30.07	763.8	13.8	—10.1	100	ese.	4	1.8		3 k	fg.	w.		0	0	dense fog	P. H. Ray.
Oswego, New York	29.31	744.5	29.64	752.8	40.0	4.4	94	ne.	25	11.2			10 n			0.50	12.7	light rain	J. G. Linsley.
Palestine, Texas	29.50	749.3	30.05	763.3	54.0	12.2	70	nw.	14	6.3		3 cs	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.75	755.6	29.78	756.4	62.0	16.7	65	nw.	9	4.0		0	1 k		nw.	0.21	5.3	clear	M. McGauran.
Philadelphia, Pa.	29.49	749.0	29.59	751.6	58	14.4	100	se.	6	2.7			10s;fg		se.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.97	456.4	30.03	762.7	15	— 9.4	87	ne.	24	10.7		0	0			inap.	inap.	clear	H. Hall.
Pioche, Nevada	24.18	614.2	30.10	764.5	46.5	8.1	48	n.	2	0.9		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	28.54	724.9	29.34	745.2	61.5	16.4	93	e.	3	1.3			10 n		se.	0.92	23.4	light rain	W. A. Reid.
Poplar River, Montana	27.79	705.9	29.91	759.7				sw.			4	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.04	737.6	29.72	754.9	35.0	1.7	69	n.	36	16.1			10 s		n.	0	0	cloudy	M. H. Perry
Portland, Maine	29.58	751.3	29.64	752.8	54	12.2	86	se.	3	1.3			fg.			0.02	0.5	dense fog	W. W. Eichelberger
Portland, Oregon	30.17	766.3	30.24	768.1	48.8	9.3	71	n.	10	4.5		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					71	21.7	84	sw.	17	7.6			10 s		sw.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.88	631.9	29.98	761.5	44.8	7.1	73	calm	0	0		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass.	29.61	752.1	29.64	752.8	59	15.0	93	se.	5	2.2			fg.			0	0	dense fog	P. T. Jenkins.
Punta Rassa, Florida	29.74	755.4	29.76	755.9	76	24.4	69	sw.	6	2.7		2 cs	2 ks	w.	sw.	0	0	fair	W. J. Evans.
Red Bluff, California	29.65	753.1	30.00	762.0	61	16.1	84	n.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.01	736.8	29.67	753.6	38	3.3	100	ne.	17	7.6			10n;fg		ne.	0.34	8.6	light rain	E. W. McGann.
Roseburg, Oregon	29.64	752.8	30.19	766.8	45.5	7.5	81	calm	0	0		1 cs	0	sw.		0	0	clear	J. J. Nanry.
Sacramento, California	29.94	760.5	30.02	762.5	63.0	17.2	78	nw.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.30	744.2	29.88	758.9	40.3	4.6	94	n.	16	7.2			10 ks		n.	0.09	2.3	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.81	757.2	29.85	758.2	30	— 1.1	88	calm	0	0		0	3 s		w.	0	0	clear	A. P. Leavitt.
St. Paul, Minnesota	29.28	743.7	30.12	765.0	35.0	1.7	69	ne.	4	1.8		0	0			inap.	inap.	clear	P. F. Lyons.
St. Vincent, Minnesota	29.29	744.0	30.15	765.8	38	3.3	82	se.	6	2.7		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.75	654.0	30.07	763.8	55	12.8	40	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.44	747.8	30.14	765.5	57	13.9	74	calm	0	0		2 c	0			0	0	clear	J. H. Davis.
San Diego, California	29.83	757.7	29.90	759.4	59.0	15.0	70	e.	1	0.4		0	0			0	0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	29.58	751.3	29.61	752.1	54.0	12.2	93	se.	10	4.5			fg.			0	0	dense fog	B. A. Blundon.
Sanford, Florida	29.63	752.6			75.9	24.4	82	sw.	5	2.2		0	8 ks		sw.	0	0	cloudy	J. B. Marbury.
San Francisco, California	29.93	760.2	30.00	762.0	57.5	14.2	80	calm	0	0		4 cs	0	sw.		0	0	fair	N. Gorom.
Santa Fé, New Mexico	23.41	594.6	30.02	762.5	51	10.6	50	se.	5	2.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.51	749.5	29.60	751.8	70	21.1	53	w.	14	6.3		1 ck	0			0.06	1.5	clear	H. W. Ford.
Shaw, Fort, Montana	26.30	668.0	29.90	759.4	45	7.2	76	sw.	9	4.0		8 k	0	w.		0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.09	754.1	29.93	760.2	56.0	13.3	60	nw.	11	4.9		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.90	734.0	30.12	765.0	50	10.0	64	nw.	4	1.8		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.92	760.0	29.98	761.5	44.5	6.9	83	se.	17	7.6			10 n		se.	0.42	10.7	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.53	750.0	30.00	762.0	49.0	9.4	71	n.	8	3.6		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.49	749.0	29.53	750.0	72	22.2	82	sw	18	8.0		1 ck	3 s	sw.	sw.	inap.	inap.	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.10	764.5	52	11.1	80	sw.	10	4.5			10 s			0.09	2.3	cloudy	John F. Hemenway.
Springfield, Illinois	29.21	741.9	29.88	758.9	38	3.3	82	n	18	8.0			10 s		n.	0.09	2.3	cloudy	T. B. Jennings.
Springfield, Missouri	28.52	724.4	29.94	760.5	43.5	6.4	83	nw.	10	4.5		0	5 ks		nw.	0.01	0.3	fair	J. H. Bryce.
Starkville, Miss.	29.33	745.0	29.80	756.9	55	12.8	69	w.	7	3.1		0	0			1.48	37.6	clear	C. Dill.
Stevenson, Fort, Dakota	28.25	747.5	30.08	764.0	49	9.4	80	sw.	2	0.9		0	0			0	0	clear	A. Schneider.
Stockton, Fort, Texas	27.17	690.1	30.18	766.6	49	9.4	80	s.	1	0.4		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass.	29.58	751.3	29.63	752.6	55.0	12.8	93	s.	11	4.9		0	fg.			0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.30	693.4	29.98	761.5	53	11.7	80	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	28.99	730.3	29.67	753.6	38	3.3	73	n.	21	9.4			10 n		n.	0.03	0.8	light rain	A. Buell.
Tucson, Arizona	27.54	699.5	29.88	758.9	64	17.8	42	s.	6	2.7		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.33	745.0	29.35	745.5	35	1.7	94	se.	1	0.4			10 n			1.85	47.0	light rain	Samuel Applegate.
Verde, Fort, Arizona					54	12.2	50	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.62	752.3	29.87	758.7	60.0	15.6	65	nw.	7	3.1		0	0			0.09	2.3	clear	James Kenealy.
Visalia, California	29.60	751.8	29.97	761.2	60.0	15.6	61	e.	4	1.8		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.62	625.3	30.10	764.5	40.0	4.4	88	sw.	2	0.9		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.36	745.7	29.48	748.8	61.1	16.2	100	e.	5	2.2			10 n		se.	0.16	4.1	thund'r st'm	T. B. Harrison.
West Las Animas, Colorado	26.22	666.0	30.07	763.8	40.5	4.7	82	w.	3	1.3		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	28.92	734.6	29.52	749.8	62	16.7	87	e.	7	3.1			10 n		se.	0.65	16.5	light rain	B. F. Hough.
Wilmington, N. Carolina	29.47	748.5	29.52	749.8	72	22.2	82	sw.	12	5.4			10 s		w.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.70	652.8	30.05	763.3	44	6.7	56	calm	0	0		0	3 s		sw.	0	0	clear	J. Grover.
Yankton, Dakota	28.84	732.5	30.12	765.0	43	6.1	74	nw.	4	1.8		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.69	754.1	29.84	757.9	70.0	21.1	52	ne.	2	0.9		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.8			56.5	13.6	83	calm	0	0			10 ks		w.	0.30	7.6	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			29.91	759.7			74	e.	1	0.4		1 c	0			0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	76	24.4	91	e.			2		8 ps		e.	0.040	1.0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.41	747.0	29.97	761.2	77	25.0	94	calm			0		10 ks		n.	0.77	19.6	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	92	sw.					2 ks		sw.	0	0		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
Santiago de Cuba, W. I.	29.86	758.4	29.88	75.89	78	25.6	60	calm	0	0		hz.	0			0	0		R. Mason.
York Factory, B. A.	30.03	762.7	30.10	764.5	31.5	— 0.3	95	nw.	10	4.5		2 c	2 s	nw.	nw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 39° 37′, E. 19° 56′	29.83	757.7	71	21.7	66	ssw.			2		8	ssw.						d. clouds.
H. M. S. Dido, Barbadoes, W.I.	29.93	760.2	81	27.2		e.			2		2	e.						d. clouds.
H. M. S. Iris, Port Said, Egypt	29.98	761.5	73	22.8	95	ene.			4-6		2							squally.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.01	762.2	72.5	22.5	74	ssw.			1		8	wsw.						misty.
H. M. S. Opal, N. 35° 35′, W. 15° 36′	29.95	760.7	69	20.6	80	ssw.			3		1	ssw.				1	ssw.	blue sky.
H. M. S. Rocket, N. 38° 20′, W. 25° 00′	29.65	753.1	59	15.0	94	nne.			4		7	nnw.				2	nne.	showery.
H. M. S. Tyne, N. 24° 18′, W. 73° 44′	29.87	758.7	70	21.1	?	ne.			2		7	calm				3	ne.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	29.84	757.9	50	10.0	93	calm			0									foggy.
U. S. Navy Yard, Pensacola, Fla.	29.77	756.1	62	16.7	61	nw.	5	2.2			5		nw.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H*	29.60	751.8	60	15.6	88	se.	6	2.7			8		se.	0	0			cloudy.
U. S. S. Alliance, Norfolk, Va	29.52	749.8	66	18.9	94	se.			2		5			0	0			fair.
U. S. S. Colorado, New York, N. Y.	29.71	754.6	54	12.2	67	se.	6	2.7			10		calm					misty.
U. S. S. Franklin, Norfolk, Va.	29.50	749.3	66	18.9	?	sse	8	3.6			5		se.					fair.
U. S. S. Jamestown, Newport, R.I*†	29.64	752.8	54	12.2	93	e.			1		10							foggy.
U. S. S. Kearsarge, N. 37° 58′ W. 74° 48′	29.59	751.6	54	12.2	100	e.			3									dense fog.
U. S. S. Lancaster, Kronstadt, Russia	29.58	751.3	53	11.7	73	nw.			3		0					sm'h		clear.
U. S. S. Michigan, Erie, Pa.	29.51	749.5	44	6.7	92	ene.			8		10		ne.					raining.
U. S. S. Minnesota. New York, N. Y.	29.63	752.6	56	13.3	87	sse.			2		10							foggy.
U. S. S. New Hampshire, Newport, R.I.	29.60	751.8	54	12.2	100	se.			2		10		calm					foggy.
U. S. S. Portsmouth, Newport, R.I.	29.71	754.6	51	10.6	100	se.			1		10							foggy.
U. S. S. Powhatan, N. 13° 48′ W 78° 48′	29.87	758.7	82	27.8	87	nw.			1		2							clear.
U. S. S. Quinnebaug, Manna river, West Africa	29.95	760.7	81	27.2	87	ne.			2		5		ne.			sm'h	sw.	fair.
U. S. S. Saratoga, N. 39° 47′, W. 73° 47′	29.62	752.3	51	10.6	93	se.			2-3				se.	light	light	sm'h	se.	foggy.
U. S. S. St. Louis, League Island, Pa.	29.64	752.8	62	16.7	83	se.	7.5	3.4			10			0	0			cloudy.
U. S. S. Swatara, N. 22° 40′, W. 88° 27′†	29.85	758.2	78	25.6	86	ssw.			2		5		ssw.	0	0	sm'h		fair.
U. S. S. Tennessee, N. 38° 02′, W. 74° 04′	29.57	751.1	54	12.2	93	se.	10	4.5			5					mod.	se.	foggy.
U. S. S. Vandalia, N. 37° 45′, W. 74° 45′	29.57	751.1	53	11.7	100	ese.			3		10							foggy.
U. S. S. Wabash, Boston, Mass.	29.65	753.1	63	17.2	82	se.	3	1.3			5		s.	0.02	0.5			fair.
U. S. S. Yantic, N 38° 04′, W. 74° 34′	29.60	751.8	54	12.2	93	ene.			2		10					long	e.	foggy.
Commewyne, N. 41° 53′, W. 26° 44′	29.74	755.4	60.6	15.9	85	nne.			6		10							d. clouds.
S. S. British Crown, N. 39° 24′, W. 67° 31′†	29.60	751.8	68	20.0		ese.			2		2		ese.	1 h'r	1 h'r	h'vy	e.	hazy.
S. S. Illinois, N. 50° 44′, W. 15° 18′*	30.02	762.5	55	12.8		sse.			3		10		sw.			sm'h	sw.	cloudy.
S. S. Lord Gough, N. 49° 56′, W. 37° 18′	30.26	768.6	52	11.1		w.			4		8		w.	0	0	mod.	nw.	cloudy.
S. S. Ohio, N 40° 00′, W. 59° 44′†	29.95	760.7	72	22.2	90	se.			5		10		se.	0	0	mod.	se.	cloudy.
S. S. Pennsylvanian, N. 47° 31′, W. 28° 22′†	30.21	767.3	53	11.7		ne.			4		9		ne.			mod.	ne.	overcast.
S. S. Circassian, N. 48° 30′, W. 62° 11′	29.74	755.4	40	4.4	100	ese.			3		9			0	0	3	ese.	foggy.
S. S. Grecian, N. 53° 50′, W. 29° 22′	30.16	766.1	55	12.8	87	wsw.			3		8		wsw.	0	0	light	nw.	cloudy.
S. S. Nova Scotian, N. 42° 29′, W. 62° 48′			49	9.4		sse.			3		10		se.			sli't	se.	foggy.
S. S. Polynesian, Montreal, Canada	29.73	755.1	47	8.3		nne.			1		10		ne.	8 h'r	8 h'r			cloudy.
S. S. Manitoban, Montreal, Canada	29.74	755.4	45	7.2	92	se.			5		6		s.	20 h'r	20 h'r			raining.
S. S. Scandinavian, N. 52° 45′, W. 35° 13′*	30.03	762.7	47	8.3		ssw.			6		8		ssw.	0	0	mod.	ssw.	d. clouds.
S. S. Sardinian, N. 51° 27′, W. 12° 53′	30.08	764.0	58	14.4		ese.			3		4		e.	0	0	sm'h		clear.
S. S. Ailsa, Cape Morant, Jamaica, W. I†	29.82	757.4	81	27.2														
S. S. Anchoria, N. 40° 54′, W. 67° 41′ †	29.77	756.1				s.			3		fg		s.	0	0	mod.	s.	foggy.
S. S. Bolivia, N. 55° 30′, W. 10° 11′.*†	30.23	767.8	52	11.1		wnw.			2		10		nw.	0	0	sm'h	w.	overcast.
S. S. Dorian, N. 40° 28′ W. 64° 40′	29.71	754.6	67	19.4		ese.			3		6		ese.	2 h'r	2 h'r	mod	e.	cloudy.
S. S. Furnessia, New York, N. Y†	29.64	752.8	63.4	17.4	95	ese.			1		fg.			0	0			dense fog.
S. S. Bothnia, N. 40° 45′ W. 65° 24′	29.68	753.9	64	17.8	?	se.			2		3		se.	rain	rain		se.	clear.
S. S. Pavonia, N. 51° 08′ W. 14° 49′	30.03	762.7	59	15.0	88	sw.			4		10		ssw.	0	0	sm'h		cloudy.
S. S. Scythia, N. 44° 33′, W. 42° 45′	30.34	770.6	62	16.7	83	calm			0		4?		se.	0	0	sli't	nw.	cloudy?
S. S. Colina, N. 54° 14′, W. 22° 40′ †	30.11	764.8				wsw.			3		2		w.	0	0	long	nw.	clear.
S. S. Canada, N. 42° 50′, W. 46° 10′			51.8	11		e			2	ck	0	e.		0	0	sm'h	e.	cloudy.
S. S. France, N. 40° 51′, W. 61° 46′†	29.67	753.7	64.4	18.0		ese.			3		6		nw.	0	0	h'vy	se.	fair.
S. S. Ville de Marseilles, N. 18° 43′, W. 68° 00′			77	25.0		ne.			3		7		ne.	0	0	h'vy	ne.	cloudy.
S. S. Abyssinia, N. 51° 15′, W. 15° 30′	30.07	763.8	56	13.3	94	ese.			2		10		sw.	0	0	sm'h		gloomy.
S. S. Bohemia, N. 52° 16′, E. 3° 10′						nw.			2		3		nw.	0	0	mod.	nw.	fair.
S. S. Gellert, N. 51° 21′, W. 1° 23′	30.10	764.5	58	14.4	88	ene.			2		1		ne.	0	0	sm'h		clear.
S. S. Rugia, N. 49° 39′, W. 13° 36′	30.09	764.3	58	14.4		se.			4		10		e.	0	0	sm'h		overcast.
S. S. Silesia, N. 15° 13′, W. 67° 57′	29.93	760.2	85.2	29.6		s.			1		1		se.	0	0	2		fair.
S. S. Westphalia, N. 41° 47′, W. 54° 46′	30.15	765.8	54	12.2	87	sse.			4		8					mod.	se.	fair.
S. S. Wieland, N. 40° 55′, W. 59° 48′	29.88	758.9				s.			2-3		4		s.	4 h'r	4 h'r	sm'h	s.	raining.
S. S. Bulgarian, N. 50° 54′, W. 15° 30′	30.10	764.5				se.			1		10		se.	0	0			overcast.
S. S. Archimedes, N. 4° 02′, W. 42° 08′	29.86	758.4				se.			3		10		ne.	2 h'r	2 h'r	light	ene.	cloudy.
S. S. Colorado, N. 33° 19′, W. 75° 22′ †	29.60	751.8	74	23.3		ssw.			4		6		ssw.	0	0	high	var.	fair
S. S. San Marcos, Galveston, Texas	29.90	759.4	72	22.2		nw.			5		1		nw.					clear.
S. S. Chalmette, N. 34° 00′ W. 75° 50′†	29.67	753.6	77	25.0		ssw.			5		4		ssw.	0	0	long	ne.	fair.
S. S. Lone Star, N. 25° 15′, W. 80° 10′ †	29.83	757.7	76	24.4		ssw.			3		3		sw.	0	0	sm'h		clear.
S. S. Alleghany, N. 38° 50′, W. 74° —′ †	29.53	750.0	50	10.0		s.			2		0					long	e.	foggy.
S. S. Archimede, N. 36° 53′ W. 25° 51′†	29.74	755.4	66	18.9	64	n.			4		3		nne.	3 h'r	3 h'r	r'gh	nne.	clear.
S. S. City of Washington, N. 25° 49′, W. 80° 02′ †	29.88	758.9	78	25.6		nw.			4		2		nw.	0	0	light	n.	clear.
S. S. Denmark, London, Eng †	30.13	765.3	66	18.9		sw.			3		2		sw.	0	0			clear.
S. S. England, N. 50° 00′, W. 20° 11′	30.08	764.0	51	10.6		ne.			5		10		ne.	0	0	mod.	ne.	overcast.
S. S. Greece, N. 47° 53′, W. 24° 18′ *	29.98	761.5	55	12.8	93	nne.			5		10		n.	6 h'r	6 h'r	r'gh	nne.	rain & fog.
S. S. Helvetia, N. 40° 42′, W. 65° 16′	29.71	754.6	64	17.8	94	se.			1		8		se.	0	0	long	se.	foggy.
S. S. Holland, N. 40° 42′, W. 64° 17′	29.62	752.3	62	16.7		ese.			3		8		se.			long	se.	hazy.
S. S. The Queen, N. 45° 49′, W. 37° 22′	30.28	769.1	60	15.6	55	nnw.			3		5		w.	0	0	sm'h		fair.
S. S. America, N. 41° 41′, W. 46° 11′ *	30.36	771.1	63.0	17.2	86	calm			0		0			0	0	light	ese.	clear.
S. S. Braunschweig, N. 49° 47′, W. 13° 56′	30.09	764.3	60.0	15.6	88	ese.			3		4		e	0	0	sm'h	se.	fair.
S. S. Donau, N. 40° 05′, W. 63° 59′	29.75	755.6				ese.			5-6		5		ese.	2 h'r	2 h'r	r'gh	se.	hazy.
S. S. Elbe, N. 45° 34′, W. 37° 17′	30.36	771.1	54	12.2	67	nne.			4		4		nne.	0	0	cross	nne.	fair.
S. S. Hohenzollern, N. 41° 02′, W. 64° 24′*	29.72	754.9	61.7	16.5		se.			3		10		se.	4 h'r	4 h'r	light	se.	overcast.
S. S. Hohenstaufen, off North Hinder, Netherlands	30.18	766.8				ene.			2		3		e.	0	0	sm'h	nw.	fair.
S. S. Oder, N. 42° 50′, W. 47° 04′	30.35	770.9	61.7	16.5		sse.			4		2		s.	0	0	mod.	sse.	clear.
S. S. Strassburg, N. 40° 06′, W. 54° 44′	30.13	765.3	72.0	22.2	95	s.			4		5		s.	0	0	3	var.	fair.
S. S. Werra, N. 45° 50′, W. 36° 56′	30.35	770.9	57	13.9		ne.			1-2		0			0	0	sm'h	nne.	clear.
S. S. Orinoco. Bermuda Islands, Atlantic ocean*†	29.80	756.9	76	24.4		ssw.			4		4		ssw.	0	0			fair.
S. S. Colon, Aspinwall, Panama †	29.91	759.7	81	27.2		calm			0		0			0	0	sm'h	nw.	clear.
S. S. Muriel, off Highlands, N.J.	29.76	755.9	58	14.4		e.			2		8			0	0	long	e.	foggy.
S. S. City of Augusta, N. 37° 12′, W. 74° 40′†	29.57	751.1				ese.			4		10		se.	0	0	h'vy	ese.	dense fog.
S. S. Belgenland, N. 49° 34′, W. 9° 40′ †	30.20	767.1	60	15.6	94	ese.			3		4			0	0	sm'h	w.	fair.
S. S. Nederland, N. 39° 50′, W. 66° 19′			59	15.0		e.			2		2		ese.			mod.	e.	hazy.
S. S. Rhynland, Jersey City, N. J.	29.57	751.1	57	13.9	87	se.			3					0	0			dense fog.
S. S. Pennland, N. 40° 39′ W. 52° 31′			65	18.3	89	s.			5		3		se.			high	w.	clear.
S. S. Waesland, N. 49° 23′, W. 18° 54′	30.08	764.0	55	12.8		calm			0		10		ne.	0	0	sm'h		cloudy.
S. S. P. Caland, N. 50° 00′, W. 7° 45′	30.16	766.1	62.2	16.8	86	s.			1		9		sse.					cloudy.
S. S. Schiedam, N. 49° 29′, W. 9° 35′	30.09	764.3	59.5	15.3	87	calm			0		0			0	0			clear.
S. S. W. A. Scholten, N. 41° 06′, W. 48° 58′	30.32	770.1	66.2	19.0	84	se.			3		4		se.	2 h'r	2 h'r	mod.	se.	fair.
S. S. Zaandam, N 42° 35′, W. 48° 24′	30.34	770.6	60.8	16.0	89	ssw.			2	2 ck	8		ssw.	0	0			clear.
S. S. Claudius, N. 40° 00′, W. 66° 20′	29.68	753.9	57.5	14.2	84	e.			2		10			0	0	long	ese.	foggy.
S. S. Valencia, La Guayra, Venezuela †	30.00	762.0	83	28.3	87	ene.			1		3		ne.	0	0	light	ne.	clear.
S. S. State of Florida, New York, N. Y.	29.71	754.6	54	12.2		se.			3		10		s.	0	0			overcast.
S. S. State of Georgia, N. 41° 53′, W. 58° 48′			67	19.4		sse.			6		10		sse.	5 h'r	5 h'r	mod	sse.	cloudy.
S. S. State of Nebraska, N. 54° 31′, W. 14° 45′*†	30.08	764.0	49	9.4		nw.			2		8		nw.	0	0	mod.	nw.	cloudy.
S. S. State of Nevada, Glasgow, Scotland †	30.00	762.0	54	12.2		wsw.			6		9		sw.	0	0			cloudy

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. State of Alabama, N. 53° 13′, W. 22° 01′ *	30.12	765.0	50	10.0		ne.			4		2		e.	4 h'r	4 h'r	mod.	ne.	clear.
S. S. Marengo, N. 42° 30′, W. 61° 10			51	10.6		sse.			4		10			1 h'r	1 h'r	long	s.	foggy.
S. S. Romano, off Beachy Head, Eng†	30.20	767.1	52	11.1		e.			2		3		ese.			sm'h		clear.
S. S. Dominion, N. 47° 37′ W. 61° 34′*†	29.80	756.9	45	7.2		ssw.			3		8		ssw.			light	sw.	dense fog.
S. S. Toronto, N. 54° 44′, W. 25° 40′	30.09	764.3	50	10.0		wsw.			5		4		wsw.	0	0	mod	wsw.	fair.
S. S. Lake Huron, N. 43° 29′ W. 48° 51′	30.21	767.3	40	4.4		s.			2		fg.		sw.	0	0	sm'h	sw.	foggy.
S. S. Lake Manitoba, N. 52° 15′. W. 24° 10′	30.15	765.8	54	12.2		nw.			4		5		nw.	0	0	h'vy	nw.	fair.
S. S. Daniel Steinmann, N. 49° 52′, W. 11° 08′†	30.20	767.1	66	18.9		ene.			2		8		ene.	0	0	light	ene.	cloudy.
S. S. Plamyn, N. 45° 08′, W. 30° 40′	30.13	765.3							4		5		ne.	0	0	h'vy	ne.	fair.
S. S. Norman, Philadelphia, Pa	29.51	749.5				ne.			1		10		ne.	0	0			cloudy.
S. S. Saxon, Boston, Mass	29.66	753.4				se.			3		10			0	0			threatening
S. S. Adriatic, N. 42° 46′, W. 47° 34′ *†	30.47	773.9	60	15.6	88	sse.			3		1		sse.	0	0	sli't	sse.	clear.
S. S. Baltic, N. 41° 04′, W. 63° 11′*	29.75	755.6	60	15.6	94	se.			4		10		s.			mod.	ese.	showery.
S. S. Celtic, N. 40° 46′ W. 62° 31′			60	15.6		sw.			6		10			0	0	high	s.	overcast.
S. S. Assyrian Monarch, N. 42° —′, W. 60° —′	29.82	757.4	49	9.4		ssw.			1		4		sw.			long	se.	dense fog.
S. S. Antonio Lopez, N. 44° 12′, W. 10° 19′	30.03	762.7	57	13.9	94	e.			2		10		e.	12 h'r	12 h'r	sm'h		drizzling.
Schr. Abbie H. Gheen, Mayport, Fla†	29.67	753.6	71	21.7		w.			5					0	0			clear.
Bg. Abbie Clifford, N. 27° 15′ W. 67° 06′†	29.84	757.9	76	24.4		sw.			3		5		wsw.	sh'rs	sh'rs	mod.	var.	fair.
Bk. Alpha, N. 47° 30′, W. 33° 45′*†	30.34	770.6	50	10.0		nne.			4		2		ne.	0	0	long	ne.	clear.
Bg. Alcira, Maracaybo, Venezuela	29.93	760.2	84	28.9		sw.			3		2		e.	0	0			clear.
Bk. Adelaide, N. 13° 26′, W. 38° 10′*†	30.07	763.8	77	25.0		ne.			5		1		ene.	0	0	mod.	ene.	clear.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.03	762.7	79	26.1		n.			1		7		s.	7 h'r	7 h'r			cloudy.
Schr. Authur Burton, St. Simon's Island, Ga*†	29.60	751.8				nw.			1		1		nw.	0	0			fine.
Bk. Aureola, N. 17° 40′, W. 62° 25′†	29.85	758.2	90	32.2		e.			5		7		e.	0	0	mod.	ene.	cloudy.
Bk. Achille F, N. 5° —′, W. 26° 30′†	29.97	761.2	80	26.7	82	se.			1		3		sse.	2 h'r	2 h'r	long	var.	fine.
Bg. Arda, Holmes' Hole, Mass						ese.			6		7		ese.	5 h'r	5 h'r	sm'h		fair.
Bg. Annie R. Storer, N. 26° 55′ W. 71° 40′†	29.90	759.4				wsw.			3		6		wsw.	0	0	sm'h	n.	fair.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.91	759.7	83	28.3		ene.			1		2		ene.	0	0			clear.
S. S. Burswell, N. 33° 28′, E. 24° 46′ *†	29.96	761.0	80	26.7		se.			2		5		w.	0	0	sm'h		fine.
Bg. Belle of the Bay, N. 25° 05′, W. 78° 38′†	29.89	759.2				sw.			4		2		sw.	0	0	sm'h	sw.	clear.
Bk. Champion, N. 24° 55′, W. 66° 19′			80	26.7	100	wsw.			1		2		wnw.	½ hr	½ h'r	mod.	nnw.	clear.
Bkt. C. S. Bushnell, Boston Bay, Mass	29.66	753.4				se.			1		10		se.	0	0	h'vy	se.	cloudy.
Schr. C. R. Flint, Sandy Hook, N. J	29.60	751.8	57	13.9		se.			2		fg.			0	0			foggy.
Bk. Childwall, N. 34° 14′. W. 41° 32′			67	19.4		ne.			5		9		ene.	2 h'r	2 h'r	h'vy	ne.	raining.
Schr. Clotilde, N. 25° 37′, W. 77° 26′*†	29.81	757.2	77	25.0		sw.			2		5		sw.	1 h'r	1 h'r	sm'h	ne.	fair.
S. Criterion, off Barra Id, Scotland *†	30.04	763.0	60	15.6		w.			2		10		nw.	sh'rs	shr's	light	wnw.	hazy.
S. David Stewart, N. 32° 51′, W. 51° 04′†	30.26	768.6				se.			2		4		se.	4 h'r	4 h'r	mod.	se.	misty.
S. S. D. J. Foley, N. 32° 08′ W. 74° 30′*†	29.75	755.6	75	23.9	86	sw.			3		5		wsw.	0	0	short	sw.	fair.
Btk. David A. Preston, N. 21° 50′, W. 70° 16′			80	26.7		sw.			2		0			0	0	long	n.	
Schr. Edith R. Seward, N. 17° 18′ W. 81° 30′†	29.99	761.7	90	32 2		calm			0		1		e.	0	0	mod.	e.	clear
S. E. J. Spicer, Liverpool, Eng	30.12	765.0	60	15.6	44	wnw.			2		10		wnw.	0	0			hazy.
Bk. E. D. Bigelow, N. 43° 05′, W. 50° 30′*†	30.12	765.0	56	13.3		sse.			3		fg.			0	0	long	ese	foggy.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	29.61	752.1	56	13.3	75	e.			1		10		e.	0.20	5.1			cloudy
Schr. F. E. McDonald, Near Dry Tortugas, Fla†	29.85	758.3				sw.			5					0	0			clear.
Bk. George Davis, N. 40° 11′, W. 42° 56′						ne.			5				ene.	0	0	r'gh	ene.	
Bk. Gronsvaer, N. 19° 40′, W. 56° 25′†	29.98	761.5	79.5	26.4		se.			4		5		se.	0	0	long	ese.	fair.
Bg. Galeon, N. 20° 49′, W. 90° 33′†	30.00	762.0	79	26.4		e.			0–5		0			0	0	sm'h	n.	misty.
S. Hedwig, N. 39° 17′, W. 29° 15′	29.65	753.2	58.3	14.6	91	nw.			6		9		var.	10 h'r	10 h'r	3	nne.	rainy.
Bk. Hattie G. McFarland, Port Royal, S C*†	29.50	749.3	70	21.1		w.			5		4		w.	0	0			
Bk. John H. Pearson, N. 28° 04′, W. 26° 00′						wnw.			1				wnw.	0	0	long	ne.	cloudy.
Schr. Isabel Alberto, Jersey City, N. J						se.			1		10			0	0			foggy.
Bk. Cato, N. 52° 29′, W. 16° 52′*†	30.14	765.5				se.			1		1		se.	0	0	sm'h	e.	clear.
Bg. John Wesley, Bailey's Mills, Ga*†	29.61	752.1				wnw.			4		4		w.	0	0			fair.
Schr. Jennie N. Huddell, Baltimore, Md†	29.61	752.1	67	19.4	100	ene.			3		8							rainy.
Bkt. Josephine, N. 26° 46′, W. 64° 43′†	29.89	759.2	79.	26.1	70	wsw.			2		0			1 h'r	1 h'r	cross	var.	hazy.
Schr. Leonessa, Baltimore, Md	29.51	749.5				ne.			5		10		sw.	3 h'r	3 h'r			cloudy.
Bg. L. & W. Armstrong, N. 29° 47′, W. 69° 31′ *†	29.86	758.4				wsw.			1		2		w.	½h'r	½h'r	mod.	nw.	clear.
Light-house Tender Laurel, Pensacola Bay, Fla†	29.77	756.1	66	18.9		nnw.			4		3		nnw.	0	0			clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	72	22.2		w.			1		2			0	0			clear.
Bg. Milo, N. 48° 44′, W. 14° 03′†	30.05	763.3				se.			3				se.					
S. S. Madrid, N. 38° 15′, E. 10° 10′†	29.94	760.5	64	17.8	89	wnw.			5		0			0	0	r'gh	wnw.	hazy
Schr. Minnie A. Bonsall, N. 39° 10′, W. 74° 25′†	29.58	751.3	60	15.6		se.			1					0	0	long	e.	foggy.
Bk. Matilda C. Smith, N. 39° 25′, W. 63° 50′ †	29.76	755.9				se.			5		4		s.	4 h'r	4 h'r	r'gh	s.	threatening
Bk. Mathais, N. 40° 36′, W. 38° 11′*†	30.37	771.4	59	15.0		ne.			5		6		ne.	0	0	cross	ne.	
Schr. Maggie Abbott, N. 35° 38′, W. 75° 02′†	29.54	750.3				s.			4		4		w.	0	0	long	e.	clear.
S. S. Mendoza, N. 20° 01′, W. 56° 53′†	30.15	765.8				se.			2				se.	0	0	sm'h	ese.	clear.
Schr. Maud Briggs, N. 20° 54′, W. 56° 35′*†	30.14	765.5				se.			4		5		se.	0	0	sm'h	se.	fair.
Bk. Ottawa, N. 40° 14′, W. 40° 54′*	30.20	767.1	62	16.7		ne.			5		8		ne.	0	0	mod.	ne.	cloudy.
Bk. Rebus, N. 51° 15′, E. 1° 46′	30.20	767.1	50	10.0		e.			1		1		e.	0	0	sm'h	ne.	clear.
Bk. Rosalie, St. John, Antigua*†	29.95	760.7				ese.			3				sse.	3½h'r	3½hr			clear.
Bk. Scud, N. 31° 34′, W. 62° 45′*†	29.83	757.7	77	25.0		ssw.			6		2		ssw.	0	0	h'vy	s.	clear.
Bk. Southern Belle, off Cape St. Maria, Portugal†	29.99	761.7	77	25.0		s.			2		0			sh'rs	sh'rs	sm'h		clear.
S. St. Francis, N. 41° 51′, W. 41° 45′			62	16.7	56	ne.			4		4		ne.	0	0	long	ene.	fair.
S. S. Strathleven, N. 35° 59′, W. 52° 38′	30.22	767.6	69.2	20.7	90	sse.			3		5		s.	0	0	2		d. clouds.
Bgt. Sunlight, N. 9° 57′, W. 58° 30′*†	30.11	764.8				se.			4		9		ene.	4 h'r	4 h'r	mod	ene.	raining.
Bg. Teneriffe, N. 23° 30′ W. 74° 20′ *	29.77	756.1				sw.			2		0					rg'h	n.	
Bk. Tuck Sing, N. 24° 03′, W. 69° 26′ *†	29.84	757.9				wsw.			2		2		nw.	0	0	mod.	nw.	fine.
Bk. Usko, N. 42° 50′, W. 33° 41′*	30.16	766.1	56	13.3		nne.			8		8		nne.	1 h'r	1 h'r	cross	ne.	cloudy.
Schr. Viola Reppard, N. 40° 45′, W. 71° 16′†	29.74	755.4	64	17.8		calm			0		10		calm	0	0		sse.	foggy.
Bkt. Wandering Jew, N. 37° 45′, W. 72° 30′†	29.70	754.4	64	17.8		se.			4		fg.			0	0	long	e.	d. clouds.
Bk. Winifred, N. 28° 50′, W. 67° 55′*†	29.85	758.2											wsw.	0	0	h'vy	wsw.	clear.
S. Wm. McGilvery, N. 0° 30′, W. 30° 00′ *†	29.95	760.7	82	27.8	83	ese.			4		8		sse	0	0	sm'h		fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.20	767.1	60	16.4	100	se.			2		9			0	0			misty.
H. M. S. Boadicea, Cape Town, Cape Colony	29.86	758.4	64	17.8	89	wnw.			1		7							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.07	763.8	59	15.0	98	ne.			1		10			0	0			foggy.
H. M. S. Thetis, S. 10° 00′, W. 24° 42′	30.07	763.8	75	23.9	81	ese.			3		3			0	0	3	sse.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.05	763.3	60	15.6	100	ne.	4	1.8			10		calm	4 h'r	4 h'r	sm'h		misty.
U. S. S Galena, Montevideo, Uruguay*	30.06	763.5	61	16.1	94	calm			0		10					sm'h		cloudy.
May Hulse, S. 44° 57′, W. 39° 43′	30.02	762.5	45.7	7.6	76	sw.			1		9			0	0			d. clouds.
S. S. Hevelius, Buenos Ayres, La Plata †	30.13	765.3	61	16.1		sse.			4		fg.			0	0			foggy.
Bk. Horace Scudder S. 7° 03′, E. 9° 00′*†	29.93	760.2	82	27.8		ssw.			3		5			0	0	mod.	sw.	fair.
S. Mt Washington, S. 4° 13′, W. 30° 50′ *†	30.04	763.0	83	28.3	79	se.			5		4		sse.	0	0	mod.	ese.	fair.
S. Minnie N. Gerow, S. 34° 29′ W. 16° 30′†	29.86	758.4	64	17.8		nw.			5		5		w.	0	0	mod.	w.	fair.
S. Paramita, S. 14° 41′, W 33° 00′†	29.97	761.2	81	27.2		ene.			6		3		n.	2 h'r	2 h'r	long	se.	clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.92	760.0	67	19.4	89	ne.			1		4		n.					d. clouds.
H. M. S. Champion, N. 6° 10′, E. 104° 20′	29.71	754.6	84	28.9	?	s.			4		10		sw.			4	s.	squally.
H. M. S. Sappho, N. 12° 28′, W. 87° 10′	29.85	758.2	82	27.8	100	ne.			1		5		ne.					d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 25′	29.95	760.7	58	14.4	91	calm			0		3							d. clouds
H. M. S. Magpie, N. 14° 35′, E. 120° 57′	29.83	757.7	82.5	28.1	79	se.			3		8		ese.			2	s.	d. clouds.
H. M. S. Swiftsure, Esquimalt, V. I	30.27	768.8	48	8.9	85	wnw.			3									squally.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.	Character.	Direction from.	
District No. 3—North Pacific.—Continued.																		
H. M. S. Zephyr, N. 34° 41′ E. 135° 12′	30.00	762.0	67	19.4	79	ene.			2		3	e.						d. clouds.
H. P. M. S. Tamega, Macao, China	29.84	758.0	83.3	28.5	92	e.			4–6		3			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.19	766.8	64	17.8	89	nnw.			1		10		e.	sli't	sli't			hazy.
U. S. S. Adams, Sitka, Alaska†	29.97	761.2	43	6.1	92	se.			1		10					sm'h		light rain.
U. S. S. Hartford, N. 10° 45′, W. 148° 30′ *	29.81	757.2	78	25.6	86	ne.			5		10			sh'rs	sh'rs	mod.	ne.	cloudy.
U. S. S. Monocacy, Roze Id, Corea	29.91	759.7	66	18.9	79	n.			1		2		calm					misty.
U. S. S. Palos, Hong Kong, China	29.74	755.4	81	27.2	91	e.			3		5		e.					fair.
U. S. S. Richmond, Hong-Kong, China*	29.74	755.4	81	27.2	96	e.			2		8		e.	o	o			cloudy.
S. S. Mexico, Magdalena Bay, Mexico †	29.90	759.4	66	18.9	74	calm			0		0							clear.
S. S. Coptic, N. 40° 11′, E. 155° 15′	30.35	770.9	51.0	10.6		var.			3		9		w.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Oceanic, N. 30° 48′, E. 130° 00′ *	29.84	757.9	70	21.1	90	e.			6		9		sw.			4	e.	raining.
S. S. City of Chester, San Francisco, Cal †	30.03	762.7	54	12.2	93	calm			0		10			o	o			overcast.
S. S. Willametta, Seattle, Wash. Ter †	30.32	770.1	51	10.6	93	e.			1		6		ne.	o	o			fair.
S. S. Ancon, N. 36° 38′, W. 122° 04′ †	29.94	760.5	53	11.7	93	wnw.			3		10					mod	w.	foggy.
S. S. Dakota, N. 47° 45′, W. 124° 52′ †	30.28	769.1	53	11.7	86	nw.			5		8		nw.	o	o	mod.	nw.	cloudy.
S. S. G. W. Elder, N. 24° 00′, W. 124° 31†	30.12	765.0	51	10.6	93	nnw.			4		0					light	w.	clear.
S. S. Queen of the Pacific, Portland, Oregon †	30.28	769.1				nw.			3		0			o	o			clear.
S. S. City of Pekin, N. 46° 44′, E. 174° 46′			39	3.9	82	w.			3		10		n.	o	o	light	nw.	misty.
S. E. B. Sutton, N. 36° 00′, W. 134° 45′†	30.34	770.6	60	15.6	100	ene.			3		10		ne.	o	o	long	nw.	overcast.
S. S. City of Rio de Janeiro, N. 37° 31′, W. 141° 26′†	30.35	770.9	59	15.0	94	ssw.			2		8		sw.	o	o	mod.	s.	hazy.
S. S. Colima, N. 30° 00′, W. 116° 25′ †	29.91	759.7	63	17.2	83	nw.			3		0			o	o	mod.		clear.
S. S. Granada, Panama Bay, Panama †	29.89	759.2	78	25.6	86	nne.			1		4			5 h'r	5 h'r			fair
S. S. San Blas, N. 23° 09′, W. 106° 37′			72	22.2		calm			0		10		ne.			small	w.	cloudy.
S. S. San José, N. 15° 36′, W. 100° 56′ †	29.89	759.2	81	27.2		wnw.			3		5 s		wsw.	o	o	long	w.	fair.
S. S. Gordon Castle, N. 5° 19′, E. 123° 46′*	29.78	756.4	84.5	29.2	87	sse.			2		5		sse.					fair.
S. Armenia, N. 36° 00′, W. 135° 00′*	30.19	766.8	60	15.6	88	ne.			3		10			o	o	long	nw.	cloudy.
Bk. Bore, Macassar, Celebes Id*†	30.18	766.6	85	29.4		ese.			1									
S. Grecian, N. 19° 54′, E. 133° 50′†	29.97	761.2	83	28.3	87	ene.			3		2		ene.	1 h'r	1 h'r	mod.	e.	clear.
S. S. Malabar, N. 2° 30′, E. 101° 32′						var.			4					6 h'r	6 h'r	sm'h		raining.
S. S. Radnorshire, N. 1° 18′, E. 104° 08′ *†	29.76	755.9				sse.			4		4		s.	o	o	sm'h		fair.
S. Titan, N. 35° 28′, W. 139° 50′ *†	30.38	771.6	64	17.8	89	ne.			3		5		ne.	o	o	mod.	nw.	fair.
Bk. Xenia, N. 26° 30′ E. 123° 11′			75	23.9		n.			4		9		n.	o	o	sm'h	n.	cloudy.
S. S. Columbia, Columbia River, Oregon†	30.23	767.8	49	9.4	67	nnw.			5		0							clear.
U. S. S. Ranger, N. 15° 36′, W. 93° 23′	29.86	758.4	81	27.2	87	ne.			3		8		ne.	0.6	15.	mod.	s.	cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			59	15.0	100	s.			2		10							raining.
H. M. S. Espiegle, S. 13° 33′, E. 177° 32′	29.97	761.2	80	26.7	87	e.			5		4					3	e.	d. clouds.
H. M. S. Kingfisher, S. 19° 05′, W. 146° 05′	29.84	757.9	76	24.4		ne.			1–3		1					4	e.	d. clouds
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	30.07	763.8	54	12.2		ese.			1							1	ese	d. clouds.
H. M. S. Nelson, S. 31° 50′, E. 159° 00′	29.46	748.3	62	16.7	100	nnw.			3–5		6	se.				5	w.	squally.
U. S. S. Iroquois, Valparaiso, Chili	30.19	766.8	51	10.6	86	se.			2		0					sm'h		clear.
U. S. S. Lackawanna, S. 34° 38′, W. 119° 08′*	29.93	760.2	62	16.7	66	sse.			7		10					r'gh	se.	cloudy.
U. S. S. Onward, Callao Peru†*	30.10	764.5	64	17.8	89	sse.			1		10							cloudy.
U. S. S. Pensacola, Callao, Peru*	29.93	760.2	65	18.3	84	ssw.			4		10			o	o			cloudy.
U. S. S. Wachusetts, S. 17° 44′, W. 172° 44′	29.87	758.7	77	25.0	73	se.			3		5		s.			long	sse.	fair.
S. S. Australia, S. 15° 03′, W. 171° 22′	29.86	758.4	78	25.6	86	se.			5		1		se.			long	se.	clear.
S. S. City of Sydney, Sydney, N. S. W *†.	30.06	763.5	60	15.6	?	se.			5		5 k		se.	o	o			fair.
S. S. Zealandia, Auckland, New Zealand	30.15	765.8	68	20.0	90	nw.			2		0					sm'h		clear.
S. David Crocket, S. 11° 59′, W. 109° 21′*	29.90	759.4	75	23.9	81	e.			5		2		e.	o	o	mod.	e.	d. clouds.
H. M. S. Lark, S. 23° 42′, E. 156° 00′	29.92	760.0	69.3	20.7		sw.			4		6					3	sse.	d. clouds
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.71	754.6	83	28.3		s.			2		3	s.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.65	753.1	90	32.2	63	ssw.			3		2	ssw.						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.95	760.7	80	26.7	91	sse.			2		2	se.				2	sse.	d. clouds.
S. S. Tourmaline, Ras Madruka, Arabia	29.70	754.4	84	28.9	79	sw.			3		0					1	s.	blue sky.
H. M. S. Woodlark, off Bushire, Persia	29.70	754.4	88	31.1	62	nnw.			4–5		2	nw.				2	nw.	misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony *	29.78	756.4	71	21.7	71	e.			2		2		calm			sm'h		clear.
U. S. S. Juniata, N. 20° 00′, E. 70° 51′	29.71	754.6	83	28.3	100	sw.			5		5		sw.	c	o	mod.	sw.	fair.
S. S. Salerno, N. 13° 40′, E. 49° 27′†	29.97	761.2	88	31.1		calm			0		0			o	o	sm'h		clear.
Bk Alpheus Marshall, S. 36° 05′, E. 20° 46′ *†	29.68	753.9				nw.			5		10			o	o	mod.	s.	threatening
S. Annie M Law, S. 24° 54′, E. 57° 30′ *†	30.30	769.6	69	20.6		sse			2		0			o	o	mod.	sw.	clear.
Bk. Ceylon, S. 33° 44′, E. 28° 11′*†	29.96	761.0	78	25.6	73	ne.			6		1		nne.	o	o	rg'h	ne.	clear.
S. Dynomene, S. 34° 30′, E. 25° 00′	29.75	755.6	70	21.1	70	wnw.			1		9			o	o	mod.	sw.	gloomy.
Bk. Pilgrim, Samarang, Java, Oceania*†	29.90	759.4				ese.			1		2		ese.	o	o			clear.
S. St. David, S. 17° 48′, E. 102° 10′ *†	29.99	761.7	79	26.1	95	ese.			5		4		ese.	o	o	short	se.	fair.
S. S. Foscolia, N. 10° 06′, E. 51° 54′ †	29.89	759.2				w.			2		2		sw.	o	o	sm'h		clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 22, 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.0	76.6	24.8	82	e.			2		0			0	0	clear	Malaterre.
Algiers			30.02	762.4	79.9	26.6	43	wsw.			2		0			0.020	0.5	clear	Thève.
La Calle			30.02	762.4	66.9	19.4	68	sw.			4		2			0	0	fair	Fonfrède.
Tunis			30.00	761.9															Jacques.
Saida			30.07	763.7															Pérès.
Tebessa			30.01	762.2	74.8	23.8	33	nw.			2		3			inap.	inap.	pretty fair	St. Martin.
Geriville					83.5	28.6	17	nnw.			3		2			0	0	fair	Forfert.
Laghouat			30.03	762.8	86.0	30.0	23	nne.			1		0			0	0	clear	Abraham.
Biskra			29.99	761.7	90.3	32.4	28	calm			0		3			0	0	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.00	762.0	55.0	12.8	49	ne.	14	6.3			10 k			0.005	0.1	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.01	762.2	30.10	764.5	43.6	6.4	88	sse.	1	0.4			2			0	0	foggy	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.57	751.0	30.11	764.8	62.6	17.0	33	se.			3		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.30	744.1	30.08	763.9	47.8	8.8	66	w.	4.3	1.9			10			0.031	0.8		Dr. Wierzbiski
Eperies	29.10	739.0	29.97	761.3	53.2	11.8	48	n.			2	cs	6 s		s.	0.055	1.4		Julius Mikolik.
Gratz	28.87	733.2	30.11	764.8	59.0	15.0	46	nw.			4		5			0	0		Andreas Rospini.
Hermannstadt	28.46	722.9	29.89	759.1	53.8	12.1	68	nw.			4		10			0.713	18.1	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.81	731.8	30.15	765.7	57.7	14.3	38	nw.			4		3 k			0	0		The Staff.
Lemberg	28.91	734.2	29.91	759.6	46.9	8.3	69	e.			5		10			0.094	2.4		Dr. T. Stanecki.
Neu Schmecks	26.56	674.6	29.95	760.6	45.0	7.2	63	calm			0		4			0.307	7.8		Dr. V. von Szontagh.
Pola	30.06	763.6	30.17	766.4	64.6	18.1	52	sw.			3		0			0	0		I. R.Hydrographic Office.
Szathmar	29.43	747.6	29.89	759.2	54.7	12.6	52	n.			5		8			0.028	0.7		Joseph Midlinsky, S. J.
Szegedin	29.71	754.6	29.99	761.7	55.8	13.2	52	nw.			3		6			0	0		Karl Stancel.
Trieste	30.07	763.8	30.17	766.3	64.4	18.0	46	w.			1		2			0	0		Royal Academy.
Vienna	29.43	747.6	30.15	765.9	55.8	13.3	40	n.			3		9			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.85	758.2	29.95	760.7	58.3	14.6	55	w.	14	6.3			9			0.040	1.0	overcast	W. Boswell.
Armagh, Observatory	29.88	758.9	30.11	764.8	62.9	17.2	62	sw.	10	4.5			1					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.13	765.3	61.3	16.3	69	wnw.	15	6.7			2					blue sky	John Hartnup.
Bolton, Sharples	29.58	751.3	30.11	764.8	64.3	17.9	65	w.	6	2.7			8					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.67	753.6	30.06	763.5	64.8	18.2	58	w.			1		5			0	0	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	83	28.3	71	ne.			2		3					d. clouds	Corpl. W. I. Cull, A.H.C
Cardington	30.05	763.3	30.15	765.8	74.0	23.3	36	w.			0.4		0					blue sky	John McLaren.
Chatham, School M. E.	30.05	763.3	30.17	767.3	68.9	20.5	44	calm			0		1					misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.97	761.2	30.20	767.1	57.6	14.2	79	se.			1		2						The Staff.
Fort Napier, Natal	27.67	702.8	29.89	759.2	83.0	28.3	30	e.			1		6					d. clouds	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.70	754.4	29.93	760.2	81.0	27.2	66	n.			1		4					gloomy	Sergt. C. E. Keane.
Galway, Queen's College	30.06	763.5	30.10	764.5	57	13.9	75	w.			2		5			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	72.8	22.7	89	w.			2		2					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.84	757.9	30.04	763.0	54.9	12.7	59	sw.			6		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	30.00	762.0	30.17	766.3	70.7	21.5	44	ssw.			1		0					blue sky	The Staff.
Guernsey	29.89	759.2	30.19	766.8	67.0	19.4	95	ne.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.14	765.5	30.17	766.3	65.8	18.8	56	sw.	7	3.1			4					d. clouds	The Staff.
Leicester, Museum	29.86	758.4	30.11	764.8	68.6	20.3	54	sw.			1		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.797	756.77	29.877	758.77	65.4	18.6	90	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.80	756.9	29.84	757.9	81.2	27.3	73	sw.			4		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.63	752.6	30.14	765.5	67.7	19.8	81	ssw.			2		5					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.94	760.5	30.17	766.3	67.0	19.4	50	s.			1		0					blue sky	The Staff.
Plymouth	30.10	764.5	30.17	766.3	63.8	17.7	73	ssw.			2		1					blue sky	John Merrifield.
Sandwick Manse, Orkneys	29.78	756.4	29.88	758.9	45.5	7.5	84						10					raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.92	760.0	29.99	761.7	52.0	11.1	93	w.			1		10					raining	W. H. Lyne.
Sheffield	29.87	757.7	30.10	764.5	71.9	22.2	54	ssw.			2		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.05	763.3	30.08	764.0	56.4	13.6	80	w.			4		6			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.13	765.3	63.0	17.2		wsw.	20	8.9			7					d. clouds	W. C. Carlisle.
Truro, Royal Institution	30.14	765.5	30.24	768.1	70	21.1	61	se.			4		3					d. clouds	W. Newcombe.
Valencia, Observatory	30.12	765.0	30.15	765.8	57.9	14.4	75	nw.	7	3.1			7					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.77	756.1	30.17	766.3	70.5	21.4	54	se.	2.5	1.1		3 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.75	755.6	29.80	756.9	44	6.7	95	n.	16	7.2			10 n		calm	0.085	2.2	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.86	758.4	29.92	760.0	44	6.7	93	n.	4	1.8			10 n		n.	0.77	19.6	cloudy	G. A. Blair.
Cornwall, Ontario	29.57	751.1	29.76	755.9	34.5	1.4	93	e.			4		10 n			0.923	23.4	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.89	759.2	29.94	760.5	41.0	5.0		w.			2		10 n			0.110	2.8	raining	H. A. Johnson.
Father Point, Quebec*	29.98	761.5	30.01	762.2	39	3.9	92	ne.	25	11.2			8 n		calm	0.16	4.1	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.95	735.3	29.77	756.1	49	9.4	93	sw.	20	11.6		0	8 k		sw.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.82	757.4	29.88	758.9	47.1	8.4	86	ne.	10	4.5			6			0.040	1.0	misty	Prof. Harrison, L. L. D.
Granton, Ontario	28.64	727.4	29.77	756.1	36.0	2.2	100	n.	2	0.9			10 n			0.55	14.0	raining	Jas. Grant.
Halifax, N. S*	29.65	753.1	29.78	755.4	56	13.3	93	se.	1	0.4			fg.			0.057	1.4	foggy	A. Allison.
Hamilton, Ontario	29.30	744.2	29.70	754.4	40.9	4.9	91	ne.			3	10 cs	0			0.80	20.3	raining	Geo. Dickson, B. A.
Kingston, Ontario*	29.34	745.2	29.68	753.9	40	4.4	89	ne.	17	7.6			10 n		ne.	1.27	32.3	light rain	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.54	750.3	29.58	751.3	39.0	15.0	94	sw.			3		10 n			0.43	10.9	foggy	C. H. Rigby.
Montreal, Quebec*	29.03	752.6	29.84	757.9	39	3.9	89	ne.	18	8.0			10 n			0.49	12.4	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.57	751.1	29.82	757.4	39.1	3.9	94	ne.			1		10 s			0.70	17.8	raining	A. McGill, M. A.
Parry Sound, Ontario*	29.15	740.4	29.86	758.4	37	2.8	61	ne.	21	9.4		5 k	5 ks	e.	e.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	28.99	736.3	29.73	755.1	39.7	4.3	81	ne.			2		10 ks			0.50	12.7	raining	J. Dixon, B. A.
Port Dover, Ontario	28.99	736.3	29.70	754.4	39	3.9	100	ne.	20	8.9			10 n		ne.	0.99	25.1	threatening	H. Morgan.
Port Stanley, Ontario	29.07	738.4	29.73	755.1	38	3.3	89	n.	10	4.5			10 n		ne.	1.22	31.0	sleeting	M. Payne.
Quebec, Quebec*	29.56	750.8	29.92	760.0	39	3.9	89	ne.	16	7.2			10 n			0.13	3.3	light rain	Capt. Ashe, R. N
Rockliffe, Ontario*	29.45	748.0	29.91	759.7	39	3.9	53	n.	5	2.2			8 ks		se.	inap.	inap.	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.73	755.1	29.78	756.4	49	9.4	92	ne.	4	1.8			10 n			0	0	cloudy	
St. John, N. B	29.64	752.8	29.80	756.9	47.0	8.3	92	ne.	11	4.9			10 s			0.100	2.5	overcast	G. Murdock, C. E.
Saint John's, N. F.	29.92	760.0	30.17	766.3	58	14.4	88	sw.			2		10 n			0	0	foggy	J. Higgins.
St. Pierre, N. F.			29.92	760.0	47.5	8.6		calm			0					0.69	17.5		The Commandant
Saugeen, Ontario*	29.10	739.1	29.83	757.7	37	2.8	61	ne.	14	6.3			10 ks			0	0	cloudy	
Stratford, Ontario	28.46	722.9	29.76	755.9	36.2	2.3	90	ne.	5	2.2			10 s			0.382	9.7	raining	G. J. Macgregor, M A
Sydney, C. B*	29.72	754.9	29.78	756.4	54	12.2	96	w.	1	0.4			10 n			0.42	10.7	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.35	745.5	29.74	755.4	39	3.9	92	n.	18	8.0			10 n		ne.	0.93	23.6	light rain	Magnetic Observatory.
Windsor, N. S	29.66	753.4	29.76	755.9	58.0	14.4	91	s.	4	1.8			10 ks			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.66	728.0	29.74	755.4	37.6	3.1	91	n.	17	7.6			10 s			0.67	17.0	raining	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.70	754.4	29.77	756.1	49	9.4	96	calm	0	0			fg.			0.65	16.5	foggy	Lt. F. E. Wilmot, R. N
London, Ontario	28.84	732.5	29.76	755.9	37.2	2.9	82	n.			1		10 n			0.94	23.9	raining	E. B. Reed.

STATIONS.	Barometer. Corrected for instruments' error and for temperature. Inch.	Barometer. Corrected for instruments' error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.97	761.2	30.00	762.0	68.5	20.3	83	calm	0	0		0	8 k			0	0	hazy	John Duthie.
Springbok Fontein	27.88	708.1			73	22.8	17	n.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.18	639.5																	A. Gueluy.
Tchang-kia-tchouang	29.80	757.0	29.84	757.8	70.2	21.2	83	se.			2		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.97	761.2	30.00	761.9	63.1	17.3	92	e.	5.6	2.5			0			0.012	0.3	clear	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.04	763.0	30.09	764.2	59.0	15.0	59	sw.	16	7			4						Oversergent Fischer.
Fanoe	30.08	764.0	30.10	764.5	52.9	11.6	75	wsw.			4		2						Overloerer Lauridsen.
Godthaab, Greenland	29.31	744.5	29.35	745.6	32.0	0.0	100	sw.			4		10					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.10	739.0	29.14	740.2	35.8	2.1		s.			2		4						
Stykkisholm, Iceland	29.50	749.4	29.55	750.5	40.3	4.6	89	w.			2		10					raining	A. O. Thorlacius.
Thorshavn	29.60	751.9	29.63	752.5	48.9	9.4	79	w.	20	9			6						Overloerer Bergh.
Vestervig	29.94	760.5	30.03	762.8	53.8	12.1	79	sw.			6		6						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.80	756.9			93.6	34.2		n.	6.3	2.8		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.50	749.3	30.13	765.2	73.4	23.0	53	w.			1	1 c	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.55	750.5	30.08	764.5	64.0	17.8	67	sw.			1	0	8 ku		ne.	0	0	very cloudy	M. Nicot, Director.
Arras, Engineer School	29.87	758.8	30.13	765.2	65.7	18.7	63	se.			1	c	0			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.06	763.4	30.13	765.4	74.8	23.8	40	wnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.62	752.4	30.17	766.3	64.9	18.3	28	ene.			2	2 c	0			0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.95	760.6	30.21	767.3	63.5	17.5	24	e.			1		2			0	0	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	29.22	742.1	30.10	764.4	69.1	20.6	31	ne.			2		0			0	0		M. Gobin, Director.
Bordeaux, Observatory	29.82	757.4	30.07	763.8	73.9	23.3	42	nnw.			1		1			0	0	almost clear	M. Rayet, Director.
Bourges, Normal School	29.60	751.9	30.14	765.5	70.0	21	37	ne.			3		1		ne.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.97	761.2	30.21	767.3	72.7	22.6	75	ssw.			1		2		ssw.	0	0		M. de Kermarès, Dir.
Caen, Normal School	30.08	764.1	30.15	765.9	72.1	22.3	100	sw.			1		5		nw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.85	758.1	30.17	766.2	67.5	19.7	67	n.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.67	753.7	30.18	766.5	68.0	20	37	se.			2		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.77	730.7	30.09	764.2	69.1	20.6	41	n.			1	5 c	0			0	0	½ covered	M. Allnard, Director.
Cluny, Normal School	29.35	745.4	30.18	766.6	68.9	20.5	29	n.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.34	745.1	30.19	766.8	60.6	15.9	30	e.			1	ck		e.	e.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.59	700.9	30.06	763.6	68.5	20.3	54	e.			1	3 c	0	nw.		0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.01	736.9	30.11	764.8	69.1	20.6	53	s.			2		3		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.35	745.4	30.10	764.6	72.3	22.4	34	nw.			1	0	2 s			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.54	724.8	30.10	764.5	70.7	21.5	27	ne.			1	0	0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.93	760.3	30.16	766.1	75.2	24	52	e.			2		10		e.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.48	748.9	30.03	762.7	78.4	25.8	44	ne.			1	2 c	0			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	764.5	30.20	767.1	71.6	22.0	53	sw.			2		5	ne.		0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.09	738.8	30.12	765.1	68.5	20.3	26	e.			1		2			0	0	hazy	M. André, Director.
Mans, Normal School	29.88	759.0	30.19	766.7	67.1	19.5	37	e.			1		2		e.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.87	758.8	30.14	765.6	70.3	21.3	65	s.			1		4		w.	0	0		M. Stephan, Director.
Montlouis	24.96	633.9	29.80	756.9	59.0	15.0	53	e.	9.4	4.2			7	n.		0.732	18.6		M. Cave for Dr. Fines.
Montpellier, Normal School	30.00	761.9	30.11	764.8	70.5	21.4	70	se.			2		0			0	0		M. Gaizin, Director.
Nancy, Normal School	29.48	748.7	30.25	768.3	64.8	18.2	37	nnw.			1	ck	0			0	0		M. Hasse, Director.
Nantes, Observatory	30.04	762.9	30.20	767.0	71.2	21.8	40	n.			1–2	2 c	0	ssw.		0	0		M. Larocque, Director.
Perpignan, Observatory	30.02	762.4	30.13	765.2	70.0	21.1	42	e.	7.4	3.3			6		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.6			46.9	8.3		w.			1		5		w.	0.039	1.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.17	741.0	30.19	766.7	71.2	21.8	50	sw.			1	2 c		s.	s.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.28	642.2			50.5	10.3	60	se.			1		2			0	0	¼ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.04	763.0	30.07	763.8	77.0	25.0	36	ne			3		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.85	758.3	30.07	763.7	70.2	21.2	38	ene.			3		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.08	713.1	30.13	765.3	77.4	25.2	57	ne.			1		1		se.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.19	766.7	30.23	767.9	67.3	19.6	33	sse.			1		0			0	0	clear	M. Mouillot, Dir.
Saint Maur, Observatory	30.04	762.9	30.20	767.0	69.4	20.8	32	ne.			1		1	nw.		0	0		M. Renou, Director.
Toulouse, Observatory	29.41	746.9	30.13	765.3	77.5	25.3	43	se.			2		5	nw.		0	0	cloudy	M. Baillaud, Director.
Tours	29.98	761.5	30.16	766.0	70.9	21.6	34	n.			1	1 c	0	e.		0	0	clear	M. de Tastes.
Versailles, Observatory	29.70	754.3	30.19	766.8	66.9	19.4	29	ne.			1					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.94	760.5	30.09	764.3	79.3	26.3	47	nw.	9.8	4.4		5 c; ck	0	s.		0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.75	730.3	30.19	766.9	59.9	15.5	36	ne.			2		1	ne.		0	0		Prof. Jnedt.
Bamberg	29.33	745.0	30.16	766.5	64.8	18.2	48	wnw.			1	0	3 k		wnw.	0	0		Prof. Dr. Hoh.
Berlin	30.04	763.0	30.19	766.7	55.8	13.2	60	w.			2		3			0.004	0.1		Meteorological Institute.
Breslau	29.61	752.2	30.15	765.7	55.0	12.8	49	nw.			4		9			0	0		Royal University Obs'y
Carlsruhe	29.75	755.7	30.21	767.3	63.0	17.2	36	nw.			1		0			0	0		Albert Senz.
Cassel	29.46	748.3	30.17	766.4	61.2	16.2	46	nw.			1		8	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.19	766.7	62.2	16.8	41	ne.			1		1			0	0		Physical Society.
Friedrichshafen	28.77	730.7	30.17	766.4	59.7	15.4	65	sw.			2		4	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.11	764.9	30.21	767.2	57.2	14.0	65	w.			4		4			0	0		E. Preller.
Kiel	30.14	765.6	30.16	766.0	54.3	12.4	61	w.			3		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.78	756.5	30.21	767.2	59.5	15.3	40	w.			2		4	nw.		0	0	hazy	H. Leppig, Asst.
Magdeburg	30.00	762.0	30.19	766.8	57.7	14.3	55	w.			1		3	nnw.		0	0		Dr. Assmann.
Memel	30.02	762.5	30.07	763.7	46.2	7.9	71	nw.			4	0	3 ks						Issermann.
Munich	28.35	720.2	30.23	767.8	57.4	14.1	35	ne.			2		3	sw.		0.059	1.5		Central Station.
Neufahrwasser	30.09	764.3	30.11	764.7	52.5	11.4	57	n.			3		1			0	0		A. Lothes.
Neustadt, Palatinate	29.62	752.4	30.15	765.9	63.1	17.3	41	calm			0		0			0	0		Dicknether.
Stuttgart	29.23	742.4	30.11	764.8	61.7	16.5	33	n.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.19	766.9	30.22	767.5	51.6	10.9	85	nw.			3		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.59	751.6	29.97	761.3	66.0	18.9		ne.			1.5		10			0	0	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.42	747.2	29.47	748.4	92.2	33.4	63	s.	17.0	7.6			2			0	0	d. clouds	
Deesa	29.06	738.2	29.51	749.5	103.6	39.8	22	s.	20.0	8.9			1	s.		0	0	d. clouds	
Bombay	29.70	754.2	29.73	755.2	87.1	30.6	67	sw.	15.0	6.7			2	sw.	wsw.	0	0	d. clouds	
Poona, Yarrowda	27.86	707.6	29.66	753.4	91.2	32.9	35	sw.	25.0	11.2			2			0	0	d. clouds	
Trichinopoly	29.42	747.3	29.69	754.2	98.3	36.8	41	ssw.	1.0	0.4			4	nne.	nne.	0	0	d. clouds	
Belgaum	27.27	692.8	29.78	756.4	81.6	27.6	52	e.	10.0	4.5			0			0	0	blue sky	
Lahore	28.79	731.4	29.50	749.4	98.4	36.9	21	e.	10.0	4.5			10			0	0	gloomy	
Roorkee	28.73	729.8	29.59	751.7	96.9	36.1	29	calm	0	0			0			0	0		
Agra	29.06	738.0	29.60	751.8	96.1	35.6	30	e.	14.0	6.3			0			0	0	blue sky	
Nagpur	28.51	724.2	29.50	749.2	106.3	41.3	13	n.	10.0	4.5			3	w.		0	0	d. clouds	
Jubbulpore	28.25	717.5	29.54	750.3	101.7	38.7	17	s.	10.0	4.5			9		s.	0	0	gloomy	
Lucknow	29.23	742.4	29.59	751.6	92.1	33.4	66	ene.	6.0	2.7			9	nnw.		0	0	d. clouds	
Allahabad	29.24	742.7	29.54	750.2	100.7	38.2	41	e.	4.0	1.8			8			0	0	d. clouds	
Patna	29.41	747.1	29.59	751.6	94.3	34.6	45	ne.	6.5	2.9			10	ne.	ne.	0	0	overcast	
Hazaribagh	27.62	701.5	29.57	751.0	90.5	32.5	46	ese.	10.9	4.9			10			0	0	gloomy	
Cuttack	29.49	749.0	29.57	751.0	92.2	33.4	63	w.	4.0	1.8			2			0	0	d. clouds	
Calcutta, Alipore	29.57	751.2	29.60	751.7	91.5	33.1	66	ese.	7.0	3.1			7	sw.		0	0	d. clouds	
Dhubri	29.52	749.7	29.63	752.7	82.6	28.1	65	calm	0	0			0			0	0	blue sky	
Chittagong	29.57	751.0	29.66	753.3	84.7	29.3	76	calm	2.0	0.9			2			0	0	blue sky	
Sibsagar	29.32	744.6	29.65	753.0	83.7	28.7	76	sw.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.15	715.1	29.54	750.3	97.4	36.3	35	ese.	9.2	4.1			2		ese.	0	0	hazy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Bellary	28.21	716.5	.....	.....	98.0	36.7	22	nw.	8	3.6	.....	4 ck	6	.....	.....	0	0	gloomy	
Zanzibar	.....	.....	29.97	761.2	79.9	26.6	77	wsw.	8.7	3.9	.....	.....	5	.....	e.	0	0	d. clouds	
ITALIAN.																			
Udine	29.75	755.7	30.15	765.9	66.6	19.2	36	sw.	3.1	1.4	.....	.....	7	.....	.....	0.020	0.5	.....	Prof. Giovanni Clodig.
Milan	29.63	752.5	30.13	765.4	69.8	21.0	33	sw.	5.6	2.5	.....	.....	2	nw.	.....	0	0	.....	Prof. G.V. Schiapparelli.
Padua	30.08	764.0	30.19	766.7	66.4	19.1	44	se.	9.8	4.4	.....	.....	6	ene.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.2	30.11	764.8	70.5	21.4	55	nw.	3.1	1.4	.....	.....	4	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.98	761.6	30.18	766.5	65.8	18.8	43	s.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.22	716.7	30.10	764.5	65.1	18.4	39	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.12	765.1	30.17	766.3	64.4	18.0	73	se.	12.5	5.6	.....	.....	4	nw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.89	759.3	30.15	765.7	68.4	20.2	33	sw.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.04	762.9	30.12	765.0	68.7	20.4	32	wsw.	2.5	1.1	.....	.....	2	nw.	.....	0	0	.....	Prof. P. Monte.
Rome	29.98	761.5	30.15	765.8	70.2	21.2	37	wsw.	18.1	8.1	.....	.....	5	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.87	758.6	30.12	765.0	63.0	17.2	39	nne.	19.9	8.9	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.19	741.5	30.06	763.4	66.9	19.4	65	wnw.	3.1	1.4	.....	.....	3	w.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.93	760.2	30.12	765.0	68.9	20.5	54	se.	.....	.....	4	.....	5	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.90	759.5	30.15	765.8	67.8	19.9	44	nne.	9.4	4.2	.....	.....	4	nnw.	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	30.06	763.4	30.10	764.5	69.1	20.6	64	e.	6.9	3.1	.....	.....	10	wnw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.62	752.4	30.13	765.4	67.3	19.6	42	ene.	3.8	1.7	.....	.....	2	ne.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.25	565.1	.....	.....	31.6	— 0.2	26	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.28	566.0	.....	.....	43.0	6.1	63	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.02	762.5	30.05	763.4	63.1	17.3	61	e.	.....	.....	2	0	0	.....	.....	0	0	clear	H. Hattori.
Awomori	30.03	762.7	30.06	763.5	53.5	11.9	92	nw.	1.1	0.5	.....	.....	10 s	.....	.....	0	0	overcast	K. Ogawa.
Hamamatsu	29.95	760.7	29.98	761.4	63.0	17.2	86	n.	.....	.....	2	1 ck	9 n;s	.....	nw.	0.114	2.9	raining	
Kagoshima	29.95	760.7	29.96	761.0	67.7	19.8	79	ne.	.....	.....	2	.....	9 s	.....	n.	0	0	cloudy	G. Miyanohaza.
Kioto	29.80	756.9	29.97	761.3	65.0	18.3	72	nnw.	1.3	0.6	.....	0	9 ck;ks	.....	nw.	0	0	cloudy	M. Tojima.
Misaka	29.97	761.2	30.00	761.9	66.8	19.3	84	nne.	.....	.....	2	.....	10ks;s	.....	e.	0.059	1.5	cloudy	K. Masusaki.
Miyako	30.03	762.6	30.13	765.4	54.1	12.3	94	w.	3.1	1.3	.....	6 c	0	.....	.....	0	0	fair	N. Honno.
Nagasaki, I. M. Obs'y	29.75	755.6	29.95	760.7	64.5	18.1	87	ne.	1.2	0.5	.....	1 cs	0	sw.	.....	0	0	clear	S. Takehayashi.
Niigata	29.94	760.5	29.97	761.2	65.8	18.8	50	se.	11.9	5.3	.....	10 cs	0	w.	.....	0	0	cloudy	M. Morita.
Nobiru	30.09	764.3	30.11	764.7	56.6	13.7	94	e.	3.3	1.5	.....	8 cs	0	.....	.....	0	0	cloudy	H. Midzushina.
Numazu	29.95	760.6	29.98	761.5	62.1	16.7	66	ene.	.....	.....	4	10 ck;cs	0	.....	.....	0	0	cloudy	R. Kaneda.
Osaka	29.95	760.8	29.97	761.2	65.0	18.3	82	sw.	5.6	2.5	.....	.....	10 s	.....	e.	0.020	0.5	cloudy	H. Omura.
Tokei Obs'y, Yeddo	29.95	760.8	30.03	762.7	60.6	15.9	86	nne.	7.3	3.2	.....	.....	10 ks	.....	ne.	0	0	cloudy	The Staff.
Wakayama	29.93	760.1	29.98	761.4	65.1	18.4	79	calm	0	0	.....	.....	10 n;ck	.....	s.	0.066	1.7	light rain	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.93	760.2	30.12	765.0	75.0	23.9	64	ese.	15.5	6.9	.....	0	2 k	.....	se.	0.07	1.8	clear	The Staff.
MEXICAN.																			
Guanajuato	23.66	601.0	29.88	759.0	59.9	15.5	77	nne.	inap.	inap.	.....	.....	10 kn	.....	sw.	0.885	22.5	covered	Prof. Vicente Fernandez.
Leon	24.29	617.0	29.97	761.2	57.6	14.2	94	wsw.	2.0	0.9	.....	.....	10n;ks	.....	.....	1.974	50.1	covered	Prof. M. Leal.
Mazatlan	29.59	751.6	29.85	758.2	77.5	25.3	42	nne.	15.5	6.9	.....	.....	10 n	.....	sw.	inap.	inap.	covered	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	67	19.4	73	nw.	8.3	3.7	.....	0	5 k	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.22	767.7	30.22	767.7	63.3	17.4	.....	sw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Groningen	30.13	765.3	30.19	766.7	58.3	14.6	.....	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.19	766.8	30.19	766.8	54.7	12.6	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.22	767.7	30.22	767.7	64.0	17.8	44	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	30.18	766.5	30.22	767.7	64.4	18.0	45	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	H. van der Brink.
Sub-series.																			
Batavia, Java	29.82	757.3	.....	.....	79.7	26.5	82	ne.	0	0	.....	.....	4	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.83	757.6	29.89	759.2	45.3	7.4	92	s.	18	8	.....	.....	10	.....	.....	1.098	27.9	raining	
Brono	29.73	755.2	29.77	756.2	46.8	8.2	83	sw.	.....	.....	7	.....	10	.....	.....	0.433	11.0	.....	
Christiania	29.71	754.5	29.85	758.1	62.2	16.8	45	ssw.	18	8	.....	.....	8	.....	.....	0	0	.....	
Gjaesvær	29.86	758.4	29.88	759.0	37.4	3.0	.....	e.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.69	754.0	29.73	755.2	48.4	9.1	81	wsw.	.....	.....	4	.....	8	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	29.71	754.4	29.86	758.5	61.7	16.5	79	nne.	17.4	7.8	.....	.....	5	.....	.....	0.610	15.5	.....	Dr. J. A. Sampaio.
Campo Major	29.12	739.7	30.10	764.6	69.8	21.0	65	w.	4.9	2.2	.....	.....	3	.....	.....	0.335	8.5	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.06	763.6	30.15	765.9	66.2	19.0	68	sw.	.....	.....	.....	.....	6	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.2	30.18	766.6	68.9	20.5	59	s.	4.3	1.9	.....	.....	3	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.75	755.6	29.82	757.4	64.4	18.0	71	n.	6.9	3.1	.....	.....	3	.....	.....	0.516	13.1	.....	
Saint Paul de Lorando	29.09	754.1	29.89	759.2	81.0	27.2	87	nnw.	0.7	0.3	.....	.....	1	sse.	.....	0	0	.....	
Serra da Estrella	25.44	646.2	30.15	765.7	54.0	12.2	80	ese.	9.4	4.2	.....	.....	9	.....	.....	0.185	4.7	light fog	
RUSSIAN.																			
Akmolinski	28.78	731.1	29.80	756.9	77.7	25.4	24	e.	20	9	.....	4 cs	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.85	758.1	29.87	758.0	38.5	3.6	77	wnw.	18	8	.....	.....	10	.....	.....	blank	blank	.....	Capt. Sseliwerstow.
Ashurada	29.91	759.8	29.82	757.4	80.6	27.0	80	wnw.	7	3	.....	7 ck	0	.....	.....	0	0	.....	
Astrakhan	29.99	761.7	29.91	759.6	70.9	21.6	69	ene.	11	5	.....	.....	9 s;n	.....	.....	blank	blank	.....	Capt. Wisganow.
Baku	29.90	759.4	29.85	758.2	73.2	22.9	63	nnw.	22	10	.....	0	0	.....	.....	0	0	.....	
Barnaul	29.74	755.5	30.24	768.2	55.2	12.9	22	ne.	4	2	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y
Bieloserek	29.47	748.5	29.93	760.3	53.4	11.9	65	wsw.	7	3	.....	0	8 ks	.....	.....	0.028	0.7	.....	
Dorpat	29.73	755.1	29.97	761.3	52.9	11.6	61	nne.	4	2	.....	.....	9 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.91	734.2	29.82	757.3	79.2	26.2	35	se.	2	1	.....	.....	10 kn	.....	.....	inap.	inap.	.....	Meteorological Obs'y
Elisawetgrad	29.30	744.1	29.74	755.3	61.5	16.4	66	sw.	18	8	.....	.....	10 kn	.....	.....	0	0	.....	
Irkutsk	28.56	725.5	30.24	768.0	43.0	6.1	44	n.	.....	.....	2	.....	8	.....	.....	0	0	.....	
Kasalinsk	29.24	742.8	29.42	747.3	89.6	32.0	37	calm	0	0	.....	0	4 k	.....	.....	.....	.....	.....	
Kasan	29.63	752.7	29.89	759.1	77.7	25.4	43	wnw.	4	2	.....	0	0	.....	.....	0	0	.....	Observatory.
Kem	29.81	757.2	29.86	758.5	39.9	4.4	66	nw.	13	6	.....	.....	10 ks	.....	.....	0	0	heavy cl'ds.	
Kertch	29.86	758.4	29.88	759.0	67.6	19.8	89	se.	4	2	.....	4 ck	0	.....	.....	0.118	3.0	.....	Lagorio & Sastyrez.
Kieff	28.94	735.0	29.56	750.7	60.8	16.0	67	sse.	25	11	.....	.....	9 ks;n	.....	.....	0.024	0.6	.....	Observatory.
Koslov	29.31	744.4	29.82	757.4	70.1	24.5	53	ne.	11	5	.....	0	7 k	.....	.....	0	0	.....	
Libau	30.02	762.6	30.04	763.0	44.8	7.1	66	w.	11	5	.....	.....	0	.....	.....	0	0	.....	E. Quass.
Lugan	29.57	751.1	29.74	755.5	82.4	28.0	36	ssw.	9	4	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.44	747.7	29.91	759.6	58.8	14.9	52	ne.	3.4	1.5	.....	.....	10 n	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.76	755.9	29.84	757.8	58.1	14.5	76	ssw.	18	8	.....	.....	10 n	.....	.....	0.091	2.3	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.89	759.3	29.98	761.5	39.7	4.3	84	e.	7	3	.....	.....	3	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.73	755.1	29.87	758.7	66.9	19.4	63	calm	0	0	.....	.....	9 n	.....	.....	0.217	5.5	.....	Physical Observatory.
Petro-Alexandrovsk	29.45	748.0	29.78	756.3	93.4	34.1	22	w.	2.2	1.0	.....	0	8 k	.....	.....	0	0	.....	
Petrozavodsk	29.76	754.3	29.90	759.4	44.6	7.0	78	e.	11	5	.....	0	8 k	.....	.....	0.012	0.3	.....	Dr. Bergmann.
Pinsk	29.32	744.8	29.82	757.5	46.8	8.2	89	nnw.	18	8	.....	.....	10 n	.....	.....	0.024	0.6	raining	
Poti	29.87	758.6	29.90	759.4	79.3	26.3	85	calm	0	0	.....	0	0	.....	.....	0.047	1.2	.....	
St. Petersburg	29.94	760.5	29.97	761.1	47.1	8.4	59	nw.	7	3	.....	.....	10 kn	.....	.....	0.016	0.4	.....	Central Physical Obs'y.
Samarkand	27.47	697.6	29.82	757.5	75.4	24.1	50	s.	13	6	.....	1 c	0	.....	.....	0	0	.....	
Semipalatinsk	29.48	748.9	30.13	765.4	61.7	16.5	16	ne.	31	14	.....	.....	3	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.63	752.5	29.85	758.1	68.9	20.5	61	sw.	27	12	.....	0	5 n	.....	.....	0.130	3.3	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Miles p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.29	744.0	29.75	755.7	46.6	8.1	92	ne.	27	12			10					light rain	
Tashkend	28.17	715.4	29.71	754.6	87.8	31.0	38	calm	0	0			9 k			0	0	light clouds	Terch, A. M.
Tiflis	28.50	723.8	29.84	757.8	81.7	27.6	34	nw.	4	2		0	1 k			0.110	2.8		Physical Observatory.
Vernoe	27.34	694.4	29.72	755.0	73.6	23.1	45	calm	0	0		1 c	0			0	0		
Viatka	29.30	744.3	29.92	759.9	64.8	18.2	47	wsw.	2	1			0			0.012	0.3		
Warsaw	29.58	751.2	30.00	762.0	51.3	10.7	51	nnw.	16	7			10 kn			blank	blank	heavy clouds	Astronomical Obs'y.
Yeniseisk	30.11	764.7	30.40	772.2	41.7	5.4	54	n	4	2			1			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.95	760.7	50	10.0	93	w.			6	5	3	w.		0	0	cloudy	J. Youngclause.
North Unst			29.85	758 2				w.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.04	763.0	30.14	765.6	71.6	22.0	63	s.	2.7	1.2		0	7			0	0	hazy	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.06	763.6	30.12	765.1	75.9	24.4	53	nw.	1.8	0.8		2	0	sw.		0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.19	690.7	30.08	764.1	68.5	20.3	56	s.	3.8	1.7		0	6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.93	709.5	30.09	764.2	74.5	23.6	51	sw.	10.1	4.5		0	7			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.74?	755.4?	29.88?	758.9?	84.6	29.2	61	sse.	3.1	1.4		3	4	e.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.36	745 7	30.24	768.1	65.3	18.5	78	e.	2.9	1.3		6 n	6 k	s.	s.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.22	742 3	30.10	764.6	65.7	18.7	73	sw.	6.3	2.8			7			0.791	20.1	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.81	757.1	29.87	758.8	77.5	25.3	65	nnw.	6.7	3.0		0	3 k			0.29	7.5	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.6	29.93	760.1	75.8	24.3	97	ne.	24.6	11.0		0	8 kn		ene.	1.043	26.5	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.08	764.1	30.18	766.6	70.0	21.1	80	wnw.	8.0	3.6		0	6		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.87	758.6	29.96	760.9	79.9	26.6	91	se.	9.4	4.2		0	2 k		se.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Hapsranda	29.92	759.9	29.96	760.9	41.7	5.4	57	sw.			4		2			0	0		
Umea	29.87	758.8	29.93	760.1	50.0	10.0	43	sw.			4		4			0.024	0.6		
Hernosand	29.84	757.9	29.89	759.2	56.1	13.4	50	calm			0		9			0	0		
Stockholm	29.78	756.5	29.96	761.0	62.6	17.0	28	wsw.			2		8			0	0		
Wisby	29.93	760.3	29.99	761.8	52.5	11.4	57	w.			4		3			0	0		
Sub-series.																			
Upsala	29.82	757.4	29.91	759.6	61.5	16.4	32	sw.	12.8	5.7			7			0.055	1.4		S. G. Fineman.
SWISS.																			
Geneva	28.73	729.8	30.14	765.5	60.4	15.8	41	n.			2		0			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			30.00	761.9	52.3	11.3	87	nw.	3	1.5			10		n.	0.189	4.8		The Observatory.
Valona			30.15	765.9	65.8	18.8		nw.			3		0			0.16	4.	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.5	73.9	23.3	66	ne.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.76	679.7			49	9.4	66	w.			1		8 n		w.			cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.55	750.6	29.63	752.6	48.2	9 0	83	n.	5	2.2			10 s		n.	0.36	9.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.32	744.7	29.98	761.5	38	3.3	61	n.	16	7.2		4 k	1 s	nw.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.03	635.8	29.85	758.2	46	7.8	58	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.18	690.4	30.02	762.5	41	5.0	76	s.	4	1.8		0	5 s		sw.	0	0	fair	B. O. Lenoir.
Atlanta, Georgia	28.58	725.9	29.76	755.9	45.0	7.2	80	w.	12	5.4			10 s			inap.	inap.	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.44	747.8	29.45	748.0	59	15.0	93	se.	6	2.7		5 k	0			0.32	8.1	fair	Jas. M. Watson.
Augusta, Georgia	29.53	750.0	29.72	754.9	53	11.7	61	w.	6	2.7		1 k	0	w.		0	0		John Healy.
Baltimore, Maryland	29.43	747.5	29.48	748.8	57	13.9	86	nw	6	2.7			10 s		nw.	0.57	14.5	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	29.45	748.0	29.47	748.5	59.5	15.2	87	s.	12	5.4		4 k	5 s		sw.	0.70	17.8	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.99	761.7	30.02	762.5	38.4	3.0		s.	5	2.2		0	fg.			0	0	light fog	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.33	719.6	29.89	759.2	50.0	10.0	80	se.	7	3.1		5 k	5 s	se.	se.	0.15	3.8	cloudy	A. Pritchard.
Benton, Fort, Montana	27.14	689.3	29.93	760.2	43	6.1	60	calm	0	0		0	5 ks			0	0	fair	S. Wheaton.
Billings, Montana	26.67	677.4	29.85	758.2	41	5.0	67	calm	0	0		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.10	713.7	29.89	759.2	53	11.7	80	s.	8	3.6		2 c	0	w.		0.13	3.3	clear	Cyrus Cramer.
Block Island, Rhode Island	29.58	751.3	29.61	752.1	56	13.3	100	s.	20	8.9			10n; fg			0.54	13.7	thund'r st'm	J. T. Elker.
Boise City, Idaho	27.08	687.8	29.92	760.0	56	13.3	64	n.	4	1.8			10 s			0	0	cloudy	J. Kenealy.
Boston, Massachusetts	29.55	750.6	29.71	754.6	52.0	11.1	100	ne.	14	6.3			10 n			0.05	1.3	thund'r st'm	O. B. Cole.
Brownsville, Texas	29.98	761.5	30.02	762.5	64.0	17.8	48	s.	2	0.9		5 ck; k	0	w.		0	0	fair	M. McCarty.
Buffalo, New York	28.92	734.0	29.66	753.4	40	4.4	94	n.	11	4.9			10 n		ne.	1.96	49.8	light rain	W. Finn.
Buford, Fort, Dakota	27.96	710.2	29.94	760.5	50	10.0	54	e.	18	8.0		0	0			0.01	0.3	clear	F. A. Mellen.
Burlington, Vermont	29.46	748.3	29.75	755.6	42.0	5.6	92	n.	12	5.4			10 s		w.	1.04	26.4	cloudy	D. N. Farnell.
Cairo, Illinois	29.56	750.8	29.96	761.0	41.8	5.4	75	n.	8	3.6		0	0			0.0 2	0.5	clear	W. H. Ray.
Cape Henry, Virginia	29.44	747.8	29.46	748.3	63	17.2	84	sw.	4	1.8		0	4 ks		sw.	0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.41	747.0	29.44	747.8	61.0	16.1	87	se.	18	8.0			fg.			0.06	1.5	dense fog	W. E. Smith.
Cape Mendocino, California	29.36	745.7	30.04	763.0	47	8.3	86	nw.			7		10 ks		nw.	0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	29.78	756.4	29.80	756 9	61.3	16.3	72	nw.	12	5.4		0	9 k		w.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	29.60	751.8	29.65	753.1	56.0	13.3	74	w.	14	6.3		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	28.75	730.2	29.59	751.6	55.0	12.8	55	n.	3	1 3			10 s		n.	0.02	0.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	28.98	730.1	29.79	756.7	43.0	6.1	71	nw.	13	5.8		0	9 ks		nw.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.05	610.9	29.92	760.0	46.3	7.9	59	n.	12	5.4		6 c	0	nw.		0	0	fair	E. McGovern.
Chicago, Illinois	29.22	742.2	29.92	760.0	40.9	4 9	65	n.	11	4.9		8 c	0			inap.	inap.	cloudy	John Laurens.
Chincoteague, Virginia	29.42	747.3	29.44	747.8	60	15.6	93	s.	7	3.1			9 s; fg		s.	inap.	inap.	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.11	739.4	29.76	755.9	37.0	2.8	82	nw.	7	3.1			10 s		nw.	1.07	27.2	cloudy	L. Dunne.
Cleveland, Ohio	28.94	735.1	29.67	753.6	41	5.0	89	ne.	12	5.4			10 n		ne.	1.32	33.5	light rain	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.04	763.0	52	11.1	86	calm	0	0		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	28.82	732.0	29.66	753 4	38	3.3	82	nw.	9	4.0			10 n		nw.	0.80	20.3	light rain	D. Cuthbertson.
Concho, Fort, Texas	28.11	714.0	30.01	762.2	51.0	10.6	86	calm	0	0		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29 36	745.7	30.00	762.0	41	5.0	65	n.	9	4.0		1 ck	0	n.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	29.97	761.2	60	15.6	67	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.20	716.3	29.95	760.7	53	11.7	61	sw.	1	0.4		10 ck	0			0	0	cloudy	D. Moore.
Deadwood, Dakota	25.35	643.9	29.87	758.7	52	11.1	69	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	29.41	747.0	29.43	747.5	61	16.1	93	s.	8	3.6			10s; fg		se.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.70	627.4	29.86	758.4	54.0	12.2	48	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.16	740.7	30.05	763.3	41	5.0	73	n.	1	0.4		3 cs	fg.	nw.		0	0	clear	F. W. Conrad.
Detroit, Michigan	29.08	738.0	29.78	756.4	34.0	1.1	100	nw.	20	8.9			10 n			0.69	17.5	light snow	E. R. Brace.
Dodge City, Kansas	27.43	695.7	29.98	761.5	48	8.9	80	n.	1	0.4		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.33	745.0	30.03	762.7	40.2	4.6	51	n.	2	0.9		1 cs	0	ne.		0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.39	746.5	30.14	765.5	46	7.8	54	n.	1	0.4		5 cs	0	w.		0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.08	764.0	62.2	16.8	56	calm	0	0		1 c	0	sw.		0	0	clear	F. Belford.
Eagle Rock, Idaho	25.23	640.8	29.91	759.7	42	5.6	62	calm	0	0		4 cs	0	sw.		0	0	fair	H. R. Boynton.
Eastport, Maine	29.74	755.4	29.81	757.2	48.0	8.9	93	nw.	10	4.5			10s; fg		nw.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.45	697.2	30.15	765.8	48	8.9	58	se.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.2[illegible]	667.8	29.93	760.2	56.0	13.3	53	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.94	735.1	29.66	753.4	40	4.4	89	ne.	18	8.0			10 s		ne.	0.96	24.4	cloudy	O. A. Shaw.
Escanaba, Michigan	29.42	747.3	30.08	764.0	37.0	2.8	72	n.	14	6.3		0	0			0	0	clear	George Heathcote.
Galveston, Texas	29.97	761.2	30.01	762.2	63	17.2	52	ne.	10	4.5		3 cs	0	nw.		0	0	clear	E. O'C. Macinerney.
Grand Haven, Michigan	29.26	743.3	29.92	760.0	38.0	3.3	62	n.	16	7.2		5 c	0	n.		0	0	fair	J. E. Mueller.
Grant, Fort, Arizona	25.20	640.1	29.82	757.4	61.9	16.0	42	e.	9	4.0		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.51	749.5	29.53	750.0	65	18.3	73	sw	19	8.5		0	hz.			0.03	0.8	clear	R. M. Crawford.
Helena, Montana	25.63	651.9	29.80	756.9	43	6.1	68	sw.	5	2.2		4 cs	0	calm		0	0	clear	N. C. Smith.
Huron, Dakota	28.58	725.9	29.93	760.2	40.2	7.9	72	se.	19	8.5		3 cs	0	se.		0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.01	730.8	29.80	756.9	37.4	3.0	84	n.	9	3.0			10 n		n.	0.20	5.1	light rain	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.03	762.7	63.2	17.3	66	ne.	8	3.6		2 c	0	w.		0	0	clear	I. A. Reed.
Jacksboro, Texas	28.88	733.5	30.03	762.7	50	10.0	59	n.	7	3.0		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	29.73	755.1	29.77	756.1	63.5	17.5	52	w.	1	0.4		5ck; cs	0	w.		0	0	fair	J. W. Smith.

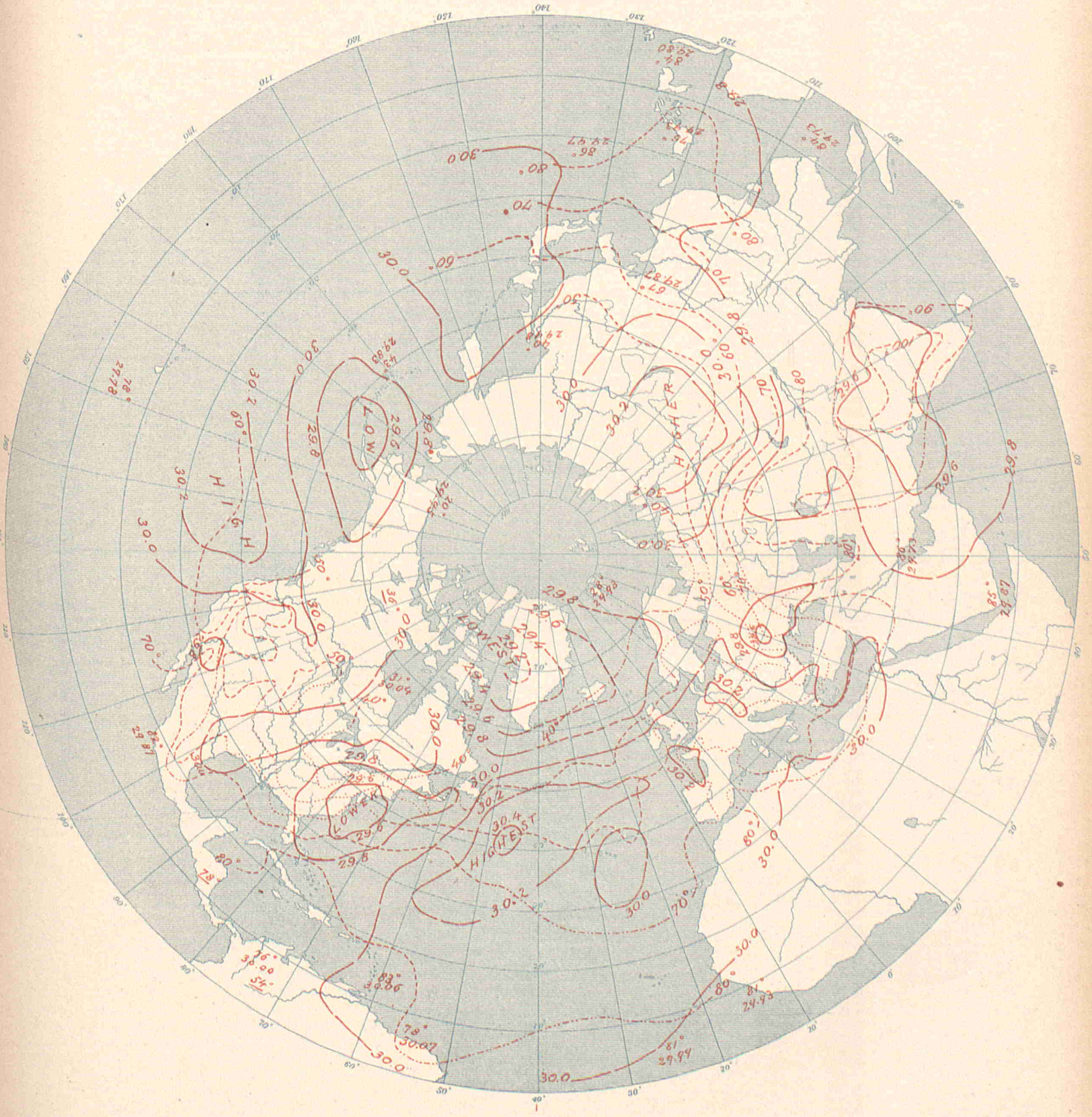
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.48	698.0	29.93	760.2	46	7.8	71	w.	4	1.8		0	0			0	0	clear	W. B. Lamar.
Keokuk, Iowa	29.35	745.5	30.00	762.0	47.0	8.3	66	ne.	3	1.3		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.80	756.9	29.82	757.4	77.0	25.0	69	w.	24	10.7		0	5 k		w.	0.18	4.6	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.49	749.0	29.51	749.5	66	18.9	73	sw.	17	7.6		hz.	1 k		sw	0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	28.76	730.5	29.78	756.4	39.8	4.3	75	n.	3	1.3			10 s		n.	0.03	0.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.29	744.0	30.05	763.3	45	7.2	53	n.	5	2.2		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.18	741.2	30.06	763.5	43	6.1	74	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.94	760.5	53.0	11.7	69	e.	2	0.9			10 s			0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.65	753.1	29.96	761.0	49	9.4	63	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.48	748.8	29.88	758.9	57	13.9	86	ne.	1	0.4			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.27	742.2	29.77	756.1	38	3.3	89	nw.	12	5.4			10 n		n.	0.13	3.3	light rain	L. M. Dey.
Lynchburg, Virginia	28.84	732.5	29.52	749.8	50.2	10.1	64	nw.	8	3.6		0	8 s		w.	0.01	0.3	cloudy	Louis Duane.
Mackinaw City, Michigan	29.38	746.2	30.04	763.0	36.5	2.5	61	n.	16	7.2		7 cs	0			0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	29.51	749.5	29.52	749.8	63.0	17.2	73	sw.	16	7.2		0	5 k		sw.	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.56	649.2	29.97	761.2	43	6.1	53	w.	4	1.8		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.40	746.7	30.12	765.0	38	3.3	82	nw.	9	4.0		0	0			0	0	clear	E. H. Thompson.
Memphis, Tennessee	29.62	752.3	29.95	760.7	43	6.1	93	nw.	2	0.9		0	0			0.04	1.0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.23	742.4	29.97	761.2	38	3.3	72	n.	15	6.7		7 c	0		n.	0	0	fair	W. Line.
Missoula, Fort, Montana	26.72	678.7	30.02	762.5	45	7.2	63	nw.	3	1.3			10 s			0.06	1.5	threatening	J. H. Young.
Mobile, Alabama	29.89	759.2	29.93	760.2	50.8	10.4	76	nw.	7	3.1		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	29.58	751.3	29.81	757.2	48	8.9	71	nw.	8	3.6			10 s		nw.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.98	736.1	29.96	761.0	43	6.1	65	s.	8	3.6		9 cs	0	s.		0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.60	599.4	29.78	756.4	44.2	6.8	98	s.	40	17.9			10n;fg		s.	0.26	6.6	light rain	S. W. Beall.
Nashville, Tennessee	29.26	743.2	29.83	757.7	44.0	6.7	83	nw.	10	4.5			10 ks		nw.	0.03	0.8	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.46	748.3	29.58	751.3	60	15.6	100	ne.	5	2.2			10n;fg		ne.	2.72	69.1	light rain	J. H. Sherman.
New London, Connecticut	29.59	751.6	29.64	752.8	57	13.9	100	se.	8	3.6			10 n			1.40	35.6	heavy rain	J. G. Lynch.
New Orleans, Louisiana	29.89	759.2	29.94	760.5	62.0	16.7	60	n.	2	0.9		0	0			0	0	clear	H. C. Smyth.
New York, New York	29.36	745.7	29.54	750.3	58	14.4	100	e.	12	5.4			fg.			2.31	58.7	dense fog	G. E. Franklin.
Norfolk, Virginia	29.44	747.8	29.47	748.5	68	20.0	73	sw.	3	1.3		0	0			0.09	2.3	clear	Wm. Davis.
North Platte, Nebraska	27.01	686.0	29.88	758.9	52.6	11.4	60	e.	12	5.4		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.08	764.0	30.12	765.0	43.0	6.1	93	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.92	734.6	30.08	764.0	44.9	7.2	70	calm	0	0		1 cs	0	nw.		0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.93	760.2	29.95	760.7	20.2	— 6.6	100	ese.	10	4.5			10s;fg			0	0	cloudy	P. H. Ray.
Oswego, New York	29.28	743.7	29.61	752.1	42.0	5.6	92	ne.	17	7.6			10 s		ne.	1.60	40.6	cloudy	J. G. Linsley.
Palestine, Texas	29.49	749.0	30.04	763.0	57.0	13.9	80	n.	7	3.1		2 cs	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.88	758.9	29.90	759.4	52.3	11.3	79	nw.	5	2.2		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.36	745.7	29.46	748.3	62	16.7	100	e.	6	2.7			fg.			1.02	25.9	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.93	455.4	29.99	761.7	23	— 5.0	80	ne.	12	5.4		0	0			0	0	clear	H. Hall.
Ploche, Nevada	24.00	609.6	29.92	760.0	54.0	12.2	43	sw.	6	2.7		6 cs	0			0	0	fair	F. R. Day.
Pittsburg, Pennsylvania	28.81	731.8	29.61	752.1	43.0	6.1	83	sw.	8	3.6			10 s		sw.	0.24	6.1	cloudy	W. A. Reid.
Poplar River, Montana	27.72	704.1	29.84	757.9				sw.			6	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.09	738.9	29.77	756.1	37.0	2.8	94	n.	32	14.3			10 s		n.	0.42	10.7	cloudy	M. H. Perry
Portland, Maine	29.72	754.9	29.77	756.1	49.0	9.4	93	ne.	14	6.3			10 n		ne.	0.02	0.5	light rain	W. W. Eichelberger
Portland, Oregon	29.99	761.7	30.06	763.5	47.0	8.3	86	calm	0	0		8 cs	0			0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					64	17.8	78	sw.	15	6.7		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.74	628.4	29.84	757.9	47.0	8.3	54	s.	2	0.9		9 cs	0			0	0	cloudy	Jas Cassidy.
Provincetown, Mass	29.66	753.4	29.69	754.1	55	12.8	93	e	13	5.8			10s;fg			0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.80	756.9	29.81	757.2	71.5	21.9	59	nw.	24	10.7		9 ck	0	sw.		0.17	4.3	cloudy	W. J. Evans.
Red Bluff, California	29.50	749.3	29.86	758.4	63	17.2	47	n.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	28.98	736.1	29.64	752.8	38.5	3.6	100	e.	22	9.8			fg.			2.09	53.1	dense fog	E. W. McGann.
Roseburg, Oregon	29.56	750.8	30.11	764.8	48.4	9.1	75	calm	0	0		8 c	0	w.		0	0	cloudy	J. J. Nanry.
Sacramento, California	29.77	756.1	29.85	758.2	61.5	16.4	84	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.39	746.5	29.98	761.5	38.1	3.4	87	n.	13	5.8		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.78	756.4	29.81	757.2	33	0.6	88	calm	0	0		0	3 s		ne.	0	0	clear	A. P. Leavitt.
St. Paul, Minnesota	29.22	742.2	30.06	763.5	40.5	4.7	65	e.	3	1.3		9 cs	0	n.		0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.96	735.6	29.82	757.4	47	8.3	89	s.	17	7.6			10 n			0.06	1.5	light rain	C. B. Dilley
Salt Lake City, Utah	25.52	648.2	29.84	757.9	64	17.8	22	calm	0	0		2 k	0			0	0	clear	J. Craig.
San Antonio, Texas	29.37	746.0	30.07	763.8	55	12.8	74	n.	3	1.3		6 cs	0			0	0	fair	J. H. Davis.
San Diego, California	29.80	756.9	29.87	758.7	60.0	15.6	88	sw.	5	2.2			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.47	748.5	29.50	749.3	58.0	14.4	100	s.	4	1.8			fg.			3.14	79.8	dense fog	B. A. Blundon.
Sanford, Florida	29.73	755.1			65.5	18.6	56	sw.	7	3.1		2 ck	2 s	w.	sw.	0.44	11.2	fair	J. B. Marbury.
San Francisco, California	29.86	758.4	29.93	760.2	52.5	11.4	86	sw.	8	3.6		30;cs	fg.	nw.	w.	0	0	fair	N. Gorom.
Santa Fé, New Mexico	23.27	591.0	29.88	758.9	51	10.6	41	e.	2	0.9		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.62	752.3	29.72	754.9	60	15.6	54	nw.	12	5.4		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.34	669.0	29.94	760.5	39	3.9	82	sw.	8	3.6		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.75	755.6	29.99	761.7	53.0	11.7	72	nw.	1	0.4		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.79	731.3	30.01	762.2	49	9.4	77	n.	3	1.3		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.74	755.4	29.80	756.9	47.5	8.6	63	e.	9	4.0			10 s		e.	0.31	7.9	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.57	751.1	30.04	763.0	48.3	9.1	77	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.53	750.0	29.57	751.1	61	16.1	72	w.	13	5.8		2 k	0	w.		0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.95	709.9	30.00	762.0	45	7.2	56	sw.	1	0.4		5 ck	0			0	0	fair	John F. Hemenway.
Springfield, Illinois	29.28	743.7	29.95	760.7	38	3.3	72	n.	8	3.6		0	0			inap.	inap.	clear	T. B. Jennings.
Springfield, Missouri	28.59	726.2	30.01	762.2	46	7.8	83	n.	1	0.4		0	0			0	0	clear	J. H. Bryce.
Starkville, Miss	29.45	748.0	29.92	760.0	44	6.7	68	n.	9	4.0		0	2 s		n.	0.03	0.8	clear	C. Dill.
Stevenson, Fort, Dakota	28.04	712.2	29.87	758.7	52	11.1	93	w.	5	2.2		5 c	0	w.		0.13	3.3	fair	A. Schneider.
Stockton, Fort, Texas	26.99	685.5	30.00	762.0	53	11.7	80	s.	5	2.2		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	29.70	754.4	29.75	755.6	48.0	8.9	93	ne.	28	12.5			10 n		ne.	0.12	3.0	heavy rain	G. Liebmann.
Thomas, Camp, Arizona	27.15	689.6	29.82	757.4	56	13.3	69	sw.			1	2 cs	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.08	738.6	29.76	755.9	35	1.7	89	n.	13	5.8			10 s		n.	0.60	15.2	cloudy	A. Buell.
Tucson, Arizona	27.46	697.5	29.80	756.9	61	16.1	46	e.	2	0.9		0	2 k			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.39	746.5	29.42	747.3	37	2.8	89	ne.	3	1.3			10 n			0.26	6.6	light rain	Samuel Applegate.
Verde, Fort, Arizona					58	14.4	44	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.74	755.4	29.99	761.7	50.0	10.0	77	ne.	3	1.3		0	0			0	0	clear	James Kenealy.
Visalia, California	29.46	748.3	29.83	757.7	61.1	16.2	77	nw.	1	0.4		2 cs	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.46	621.3	29.94	760.5	49.0	9.4	74	ne.	3	1.3		7k;ck	0			0	0	fair	T. M. Ambler.
Washington, D. C.	29.37	746.0	29.48	748.8	51.0	10.6	89	nw.	8	3.6			10 n		nw.	0.98	24.9	light rain	T. B. Harrison.
West Las Animas, Colorado	25.96	659.4	29.81	757.2	45	7.2	71	w.	2	0.9		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa	28.98	736.1	29.58	751.3	49	9.4	89	nw.	7	3.1			10 n			1.14	29.0	light rain	B. F. Hough.
Wilmington, N. Carolina	29.51	749.5	29.56	750.8	61	16.1	72	w.	11	4.9		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.55	649.0	29.90	759.4	46	7.8	56	sw.	8	3.6		0	4 s		sw.	0	0	fair	J. Grover.
Yankton, Dakota	28.74	730.0	30.02	762.5	46	7.8	68	s.	6	2.7		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.56	750.8	29.71	754.6	69.9	21.1	72	nw.	1	0.4		5c;cs	0	w.		0	0	fair	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.0	12.2	77	calm	0	0		2 c	2 s	sw.		1.30	33.0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.			29.96	761.0			73	calm	0	0		0	1 s			0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	se.			3		8 ps		se.	0.200	5.1	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.44	747.8	30.00	762.0	76	24.4	94	calm			0		10 ks		n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77.5	25.3	91	nnw.					ks		e.	0	0		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos.
Santiago de Cuba, W. I.	29.90	759.4	29.93	760.2	81	27.2	79	sw.	5	2.2		0	5 ks		s.	0.16	4.1		R. Mason.
York Factory, B. A.	29.98	761.5	30.04	763.0	30.5	— 0.8	95	nw.	6	2.7		1 c	0	nw.		0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, Corfu, Ionian Islands	30.03	762.7	67	19.4	55	wnw.			3		1	wnw.						blue sky.
H. M. S. Dido, Barbadoes, W. I.	30.05	763.3	81	27.2		e.			1		3	e.						d. clouds.
H. M. S. Iris, Port Said, Egypt	30.00	762.0	73	22.8	95	nne.			3		0							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.12	765.0	68	20.0	82	ssw.			1		3	wsw.						misty.
H. M. S. Opal, N. 33° 16′, W. 16° 36′	30.13	765.3	68	20.0	84	sse.			3		3	ssw.				2	ssw.	d. clouds.
H. M. S. Rocket, N. 40° 00′, W. 23° 10′	29.87	758.7	59	15.0	94	e.			6		8					4	ese.	showery.
H. M. S. Tyne, N. 22° 52′, W. 70° 30′	29.95	760.7	79	26.1	82	se.			4		1					2	e.	blue sky.
H. M. S. Tenedos, Halifax, N. S.	29.79	756.7	53	11.7	93	calm			0		8							misty.
U. S. Navy Yard, Pensacola, Fla	29.88	758.9	54	12.2	74	nw.	3	1.3			0			0.64	16.3			clear.
U. S. Navy Yard, Portsmouth, N. H.*	29.71	754.6	50	10.0	93	ne.	18	8.0			10		ne.	0.1	3.			cloudy.
U. S. S. Alliance, Norfolk, Va	29.48	748.8	64	17.8	83	ssw.			1		5			0	0			fair.
U. S. S. Colorado, New York, N. Y.	29.59	751.6	60	15.6	100	se.	6	2.7			10		calm	0.2	5.			rainy.
U. S. S. Franklin, Norfolk, Va.	29.46	748.3	64	17.8	94	sw.	4	1.8			5		se.	0.04	1.0			fair
U. S. S. Jamestown, Newport, R. I.*†	29.72	754.9	58	14.4	94	e.			3		10		se.					raining.
U. S. S. Kearsarge, N. 40° 24′, W. 73° 34′	29.52	749.8	56	13.3	100	ssw.			3		10		sw.			light	se.	foggy.
U. S. S. Lancaster, Kronstadt, Russia	29.94	760.5	47	8.3	85	wnw.			2		8		calm			sm'h		fair
U. S. S. Michigan, Erie, Pa.	29.63	752.6	44	6.7	84	ne.			8		10		ne.					raining.
U. S. S. Minnesota, New York, N. Y.	29.54	750.3	59	15.0	100	se.			3		10							drizzling.
U. S. S. New Hampshire, Newport, R. I.	29.58	751.3	57	13.9	100	se.			4		10		se.			sm'h		rain-squalls
U. S. S. Portsmouth, Newport, R. I.	29.67	753.6	56	13.3	69	se.			3		10							raining.
U. S. S. Powhatan, N. 15° 56′, W. 80° 48′	29.90	759.4	81	27.2	83	calm			0		2					sm'h		clear.
U. S. S. Quinnebaug, N. 7° 21′, W. 13° 03′	29.96	761.0	83	28.3	79	nnw.			3		2		nnw.			sm'h	wsw.	fair.
U. S. S. Saratoga, Sandy Hook, N. J.	29.57	751.1	58	14.4	100	se.			2–3		10		e.	light	light	sm'h		foggy.
U. S. S. St. Louis, League Island, Pa.	29.51	749.5	61	16.1	100	e.	11.5	5.1			10			0.70	17.8			foggy.
U. S. S. Swatara, N. 23° 30′, W. 85° 34′ †	29.82	757.4	77	25.0	65	nw.			3		5		nw.	0	0	sm'h		fair.
U. S. S. Tennessee, N. 40° 22′, W. 73° 25′	29.52	749.8	58	14.4	94	sw.	9	4.0			10			0.5	13.	sm'h		foggy.
U. S. S. Vandalia, N. 40° 30′, W. 73° 45′	29.48	748.8	57	13.9	100	s.			3		10					long		foggy
U. S. S. Wabash, Boston, Mass.	29.75	755.6	54	12.2	93	ne.	3	1.3			10			0.02	0.5			cloudy.
U. S. S. Yantic, N. 40° 16′, W. 73° 41′	29.51	749.5	55	12.8	100	s.			3		10					small		foggy.
Commewyne, N. 42° 10′, W. 27° 24′	30.01	762.2	65	18.3	76	nne.			6		8							d. clouds.
S. S. British Crown, N. 40° 03′, W. 61° 06′ †	30.01	762.2	74	23.3		ssw.			4		2		ssw.	2 h'r	2 h'r	h'vy	se.	hazy.
S. S. Illinois, N. 49° 21′, W. 23° 10′ *	30.20	767.1	52	11.1		nne.			2		8		ne.			long	n.	cloudy.
S. S. Lord Gough, N. 48° 29′ W. 43° 49′	30.31	769.9	53	11.7		sw.			4		10		wsw.	0	0	mod.	w.	overcast.
S. S. Ohio, N. 39° 32′, W. 65° 11′ †	29.88	758.9	69	20.6	90	sw.			5		1		w.	0	0	mod.	sw.	clear.
S. S. Pennsylvania, N. 49° 09′, W. 22° 40′†	30.24	768.1	52	11.1		ne.			2		8		sw.			sm'h	ne.	fair.
S. S. Circassian, N. 47° 45′, W. 60° 30′	29.78	756.4	42	5.6	100	var.			3		10			0	0	2	sse.	foggy.
S. S. Grecian, N. 54° 46′, W. 21° 15′	30.06	763.5	58	14.4	82	w.			3		10		w.	6 h'r	6 h'r	light	nw.	showery.
S. S. Nova Soctian, N. 42° 38′, W. 56° 48′	30.01	762.2	54	12.2		s.			4		0					high	s.	foggy.
S. S. Polynesian, Montreal, Canada.			43	6.1		ne.			7		10		ne.	24 h'r	24 h'r			cloudy.
S. S. Manitoban, Montreal, Canada	29.77	756.1	44	6.7	92	ese.			6		5		sse.	20 h'r	20 h'r			raining.
S. S. Scandinavian, N. 53° 59′, W. 28° 39′			51	10.6		wsw.			3		10			2 h'r	2 h'r	mod.	wsw.	misty.
S. S. Sardinian, N. 52° 44′, W. 5° 29′	30.12	765.0	51	10.6		sw.			3		6		sw.	0	0	sm'h		fair.
S. S. Ailsa, Kingston, Jamaica, W. I †	29.82	757.4	81	27.2		calm			0		0					sm'h		fair
S. S. Anchoria, N. 40° 26′, W. 73° 20′						s.			3		hz.		s.	sh'rs	sh'rs	mod.	s.	hazy.
S. S. Bolivia, N. 54° 34′, W. 17° 57′			54	12.2		wsw.			3		10		w.	0	0	h'vy	w.	overcast.
S. S. Dorian, N. 40° 49′, W. 61° 10′	29.95	760.7	67	19.4		wsw.			4		6		sw.	6 h'r	6 h'r	mod.	s.	cloudy.
S. S. Furnesia, New York, N. Y †	29.54	750.3	66	18.9	94	se.			1		fg			0	0			dense fog.
S. S. Llandaff City, New York, N. Y †	29.52	749.8	58	14.4		e.			4		10			8 h'r	8 h'r			foggy.
S. S. Bothnia, N. 40° 28′, W. 73° 22′	29.55	750.6	56	13.3	94	s.			3–4		fg			shr's	shr's		s.	foggy.
S. S. Pavonia, N. 50° 17′, W. 23° 22′	30.12	765.0	54	12.2	80	wnw.			5		10			0	0	mod.	nnw.	cloudy.
S. S. Scythia, N. 47° 25′, W. 35° 20′	30.37	771.4	59	15.0	94	nw.			1		9		nw.	0	0			foggy.
S. S. Colina, N. 53° 40′ W. 27° 00′ †	30.00	762.0				wsw.			2		7		w.	0	0	long	wsw.	fair.
S. S. Canada, N. 44° 50′. W. 40° 17′	30.23	767.9	55.4	13.0		ne.			2	ck	0	ne.		0	0	r'gh	ne.	almost clear
S. S. France, N. 40° 33′, W. 68° 23′†	29.71	754.7	51.8	11		ese.			3		10		se.	rain	rain	sm'h	se.	
S. S. Ville de Marseilles, N. 18° 28′, W. 65° 30′			77	25.0		ne.			4		4		ne.	0	0	long	ne.	fair.
S. S. Abyssinia, N. 50° 12′, W. 23° 30′	30.18	766.6	52	11.1	79	wnw.			3		5?		wnw.	0	0	mod.	nw.	cloudy?
S. S. Bohemia, Havre, France						sw.			1		1		sw.	0	0		sw.	fair.
S. S. Gellert, Cuxhaven, Germany			64	17.8	62	e.			1		10		w	0	0	sm'h		covered.
S. S. Rugia, N. 49° 51′, W. 5° 44′	30.18	766.6	61	16.1		e.			3		2		e.	0	0	sm'h	e.	fair.
S. S. Silesia, Puerto Cabello, Venezuela	29.98	761.5	78	25.6		se.			2		3?		ne.	0	0			cloudy?
S. S. Westphalia, N. 43° 20′, W. 47° 58′	30.44	773.2	56	13.3	94	sse.			3							sm'h	s.	fair.
S. S. Wieland, N. 40° 38′, W. 66° 06′	29.87	758.7				s.			1		3			0	0	sm'h	sw.	foggy.
S. S. Bulgarian, N. 51° 38′, W. 8° 10′	30.19	766.8				calm			0		2			0	0			clear.
S. S. Archimedes, N. 6° 25′ W. 44° 34′	29.91	759.7				ne.			2–3		5		ene.	¼ h'r	¼ h'r	mod.	nne.	fair.
S. S. Colorado, N. 29° 44′, W. 77° 13′†	29.65	753.1	72	22.2		wnw.			4		2		wnw.	3 h'r	3 h'r	high	sw.	clear.
S. S. San Marcos, Galveston, Texas	29.94	760.5	70	21.1		n.			4		1		n.					clear.
S. S. Chalmette, N. 38° 23′ W. 74° 25′ †	29.51	749.5	58	14.4		s.			4		4		ssw.	½ hr	½ hr	long	sse.	fair.
S. S. Lone Star, N. 24° 43′, W. 83° 20′†	29.85	758.2	76	24.4		wnw.			4		3		nw.	2 h'r	2 h'r	h'vy	wnw.	clear.
S. S. Alleghany, Chesapeake Bay†	29.43	747.5	60	15.6		n.			4		5		w.					fair.
S. S. Archimede, N. 36° 47′, W. 19° 55′ †	30.02	762.5	66	18.9	74	s.			3		2		se.	0	0	r'gh	var.	clear.
S. S. City of Washington, N. 23° 10′ W. 82° 22†	29.93	760.2	80	26.7		ne.			4		10		ene.	2 h'r	2 h'r	sm'h		rainy.
S. S. Denmark, London, Eng†	30.15	765.8	73	22.8		sw.			3		2		sw.	0	0			clear.
S. S. England, N. 51° 00′, W. 13° 50′	30.13	765.3	57	13.9		ene.			3		5		ne.	0	0	mod.	ne.	fair.
S. S. Greece, N. 48° 42′, W. 18° 01′ *	30.05	763.3	66	18.9	54	ene.			2		10		n.	0	0	sm'h	nne.	overcast.
S. S. Helvetia, N. 40° 50′, W. 59° 20′	29.94	760.5	67	19.4	95	s.			4		2		s.	1 h'r	1 h'r	short	var.	clear.
S. S. Holland, N. 40° 53′, W. 59° 30′	29.87	758.7	70	21.1		ssw.			5		8		s.	4 h'r	4 h'r		s.	cloudy.
S. S. The Queen, N. 43° 43′ W. 43° 35′	30.39	771.9	68	20.0	47	ssw.			2		2		sw.	0	0	sm'h		clear.
S. S. America, N. 41° 44′, W. 53° 10′ *	30.21	767.3	68.0	20.0	92	sse.			4		10		sse.	0	0	r'gh	w.	overcast.
S. S. Braunschweig, off Scilly Island, Eng	30.19	766.8	64.0	17.8	73	se.			3		3		se.	0	0	sm'h	se.	clear.
S. S. Donau, N. 40° 28′, W. 57° 08′	30.12	765.0				s.			6		5		s.	0	0	r'gh	s.	fair.
S. S. Elbe, N. 47° 45′, W. 28° 53′	30.38	771.6	54	12.2	74	n.			3–4		10		n.	0	0	long	nne.	covered.
S. S. Hohenzollern, N. 40° 26′, W. 69° 27′ *	29.69	754.1	52.7	11.5		calm			0		10		s.			mod.	s.	foggy.
S. S. Hohenstaufen, off Lizard Point, Eng	30.16	766.1				sw.			1		0			0	0	sm'h	nw.	clear.
S. S. Oder, N. 41° 47′, W. 53° 44′	30.18	766.6	66.2	19.0		s.			5–6		9		s.	0	0	mod.	ssw.	cloudy.
S. S. Strassburg, N. 39° 37′, W. 59° 26′	30.02	762.5	79.0	26.1	82	s.			4		7		s.	8 h'r	8 h'r	4	ssw.	fair
S. S. Werra, N. 42° 57′ W. 45° 10′	30.44	773.2	61	16.1		s.			2		5		sse.	0	0	sm'h	s.	fair.
S. S. Orinoco, Bermuda Islands *†	30.00	762.0	76	24.4		ssw.			4		6		ssw.	1 h'r	1 h'r			fair.
S. S. Colon, Aspinwall, Panama †	29.89	759.2	78	25.6		nnw.			1				n.	0	0	sm'h	nw.	clear.
S. S. City of Augusta, Scotland Light Ship, N. J†	29.56	750.8				ene.			6		10		se.	0	0	h'vy	se.	dense fog.
S. S. Belgenland, N. 48° 50′, W. 17° 30′†	30.27	768.8	60	15.6	94	nne.			2		8		n.	0	0	long	n.	cloudy.
S. S. Nederland, N. 40° 04′, W. 60° 34′ †*	29.96	761.0	65	18.3		ssw.			4		8		ssw.	2 h'r	2 h'r	r'gh	s.	cloudy.
S. S. Rhynland, Jersey City, N. J	29.63	752.6	59	15.0	94	wsw.			4					0	0			
S. S. Pennland, N. 40° 36′, W. 57° 44′	29.96	761.0	43	6.1	92	wsw.			3		2		w.			mod.	s.	clear.
S. S. Waesland, N. 49° 37′, W. 11° 44′	30.17	766.3	57	13.9		ese.			3		6		ese.	0	0	long	nnw.	fair.
S. S. P. Caland, N. 49° 08′, W. 14° 40′	30.18	766.6	59.7	15.4	81	calm			0		5		wsw.			2	nw.	fair.
S. S. Schiedam, N. 50° 21′, W. 2° 26′	30.12	765.0	60.6	15.9	81	wnw.			4				w.	0	0	sm'h		fair.
S. S. W. A. Scholten, N. 42° 39′, W. 43° 36′	30.48	774.2	62.6	17.0	72	ese.			2		2		e.	0	0	sm'h	e.	clear.
S. S. Zaandam, N. 41° 46′, W. 53° 20′	30.21	767.3	65.5	18.6	86	ssw.			4	c	10 n		w.	¼ h'r	¼ h'r		ssw.	rainy.
S. S. Claudius, N. 40° 00′, W. 62° 00′†	30.01	762.2	65.0	18.3	84	wsw.			3		5		w.	0	0	long	s.	misty.
S. S. Valentia, La Guayra, Venezuela †	30.11	764.8	84	28.9	83	ne.			1		4		ne.	3 h'r	3 h'r	mod.	ne.	fair.
S. S. State of Florida, New York, N. Y.			64	17.8		e.			1		10							overcast.
S. S. State of Georgia, N. 41° 00′, W. 65° 17′†	29.91	759.7	62	16.7		sw.			2		10		w.	1 h'r	1 h'r	long	sse.	dense fog.
S. S. State of Nebraska, N. 52° 26′, W. 22° 40′ *†	30.06	763.5	51	10.6		sw.			5		7		w.	0	0	long	nw.	fair.
S. S. State of Nevada, Glasgow, Scotland †	29.95	760.7	55	12.8		wsw.			6		2		wsw.	0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. State of Alabama, N. 54° 55′, W. 15° 22′*	29.98	761.5	56	13.3		var.			4		7		wnw.	4 h'r	4 h'r	mod.	wnw.	fair.
S. S. Marengo, N. 42° 50′, W. 65° 00′			48	8.9		wnw.			2		10			2 h'r	2 h'r	long	ssw.	foggy.
S. S. Dominion, N. 45° 51′, W. 58° 04′*†	29.88	758.9	47	8.3		sse.			4		10		sse.			mod.	sse.	dense fog.
S. S. Toronto, N. 53° 13′, W. 32° 24	30.09	764.3	55	12.8		wsw.			4		10		wsw.	1 h'r	1 h'r	mod.	wsw.	foggy.
S. S. Lake Huron, N. 50° 46′, W. 42° 07′	30.23	767.8	50	10.0		ssw.			2		0			0	0	long	ne.	clear.
S. S. Lake Manitoba, N. 51° 43′, W. 30° 30′	30.14	765.5	54	12.2		wnw.			4		10		w.	3 h'r	3 h'r	mod.	wnw.	foggy.
S. S. Daniel Steinmann, N. 49° 55′, W. 5° 26′†	30.24	768.1	64	17.8		e.			3		0			0	0	sm'h		clear.
S. S. Plantyn, N. 46° 07′, W. 28° 39′									0		5		ne.	0	0	r'gh	ne	fair.
S. S. Norman, Philadelphia, Pa	29.50	749.3				ese.			1		10		ne.	6 h'r	6 h'r			cloudy.
S. S. Saxon, Boston, Mass†	29.77	756.1				ne.			9		10		ne.	rain	rain			heavy rain.
S. S. Adriatic, N. 42° 01′, W. 55° 12′*†	30.20	767.1	66	18.9	45	s.			5		10		s.	1 h'r	1 h'r	mod.	ssw.	drizzling.
S. S. Baltic, N. 41° 50′, W. 55° 53′*	30.01	762.2	69	20.6	100	s.			6		10		s.	shr's	shr's	rg'h	s.	showery.
S. S. Celtic, N. 41° 27′, W. 55° 39′†	30.14	765.5	68	20.0		sse.			4		10			0	0	light	s.	overcast.
S. S. Assyrian Monarch, N. 41° –′, W. 66° —			46	7.8		sw.			2		7		sw.			long	se.	dense fog.
S. S. Antonio Lopez, Santander, Spain	30.16	766.1				wsw.			4		5			12 h'r	12 h'r	sm'h		fair.
Schr. Abbie H. Gheen, Mayport, Fla†	29.73	755.1	62	16.7		w.			5					0	0			clear.
Bg. Abbie Clifford, N. 28° 30′, W. 68° 17′†.	29.91	759.7	75	23.9		s.			3		5	w.		0	0	sm'h	sw.	fair.
Bk. Alpha, N. 48° 00′, W. 32° 30′*†	30.34	770.6	56	13.3		nw.			4		10		n.	0	0	long	n.	cloudy.
Bg. Alcira, Maracaybo, Venezuela	29.94	760.5	83	28.3		nw.			2		2		ene.	0	0			clear.
Bk. Adelaide, N. 11° 50′, W. 30° 41′ *†	30.08	764.0	80	26.7		ene.			4		5		e	0	0	mod.	e.	fair.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.11	764.8	85	29.4		calm			0		2		se.	1 h'r	1 h'r			clear.
Schr. Arthur Burton, St. Simons Island, Ga*†	29.60	751.8				nw.			2		1		nw.	0	0			fine.
Bk. Aureola, N. 19° 32′, W. 61° 36′†	29.95	760.7	90	32.2		ese.			5		5		e.	0	0	mod.	ene.	fair.
Bk. Achille F., N. 4° 15′, W. 20° 30′†	29.99	761.7	81	27.2	86	e.			1		0		se.	14 h'r	14 h'r	long	var.	squally.
Bk. Arda, Holmes' Hole, Mass.						se			4		5		ese.	3 h'r	3 h'r	sm'h		fair.
Bg. Annie R. Storer, N. 28° 40′, W. 72° 06′†	29.92	760.0				s.			5		4		sw.	0	0	long	sw.	fair.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.96	761.0	81	27.2		ene.			1		4		ene.	2 h'r	2 h'r			fair.
S. S. Burswell, N. 34° 24′, E. 20° 54′*†	30.02	762.5	72	22.2		nnw.			3		4		n.	0	0	str'g	nw.	fine.
Bg. Belle of the Bay, N. 24° 53′, W. 79° 07′†	29.83	757.7				w.			5		10		sw.	5 h'r	5 h'r	chop	sw.	threatening.
Bk. Champion, N. 25° 26′, W. 07° 02′			80	26.7	91	sw.			2		2		w.	0	0	long	se.	clear.
Schr. G. R. Flint, Sandy Hook, N. J†	29.45	748.0	59	15.0		ese.			2		fg.			6 h'r	6 h'r			foggy.
Bk. Childwall, N. 33° 35′, W. 39° 20′			66	18.9		ne.			5		7		ne.	½h'r	½h'r	mod.	ne.	squally.
Schr. Clotilde, N. 25° 45′, W. 78° 05′ *†	29.78	750.4	76	24.4		sw.			3		10		sw.	4 h'r	4 h'r			squally.
S. Criterion, N. 57° 20′, W. 10° 20′*†	29.90	759.4				w.			4		10		wsw.	sh'rs	sh'rs	light	w.	hazy.
S. David Steward, N. 31° 49′, W. 51° 01′ †	30.31	769.9				se.			2		0			0	0	sm'h		clear
S.S.D. J. Foley, N. 29° 13′, W. 74° 20′ *†	29.78	756.4	75	23.9	90	s.			4		10		s.	0	0	short	s.	cloudy.
Bkt. David A. Preston, N. 20° 12′, W. 71° 14′			88	31.1		ssw.			2		0			0	0	sm'h		
Schr. Edith R. Seward, N. 17° 30′, W. 81° 46′†	30.00	762.0	90	32.2		calm			0		2		calm	0	0	mod.	ene.	clear.
S. E. J. Spicer, Liverpool, Eng	30.12	765.0	60	15.6	94	n.			2		5		n.	0	0			fair.
Bk. E. D. Bigelow, N. 43° 37′, W. 48° 24′			59	15.0		se.			4		4		sse.	0	0	sm'h		hazy.
U. S. Fish. Com. S. S. Fish Hawk, Glymont, Md†	29.59	751.6	53	11.7	73	nnw.			4		10		nw.	1.35	34.3			cloudy.
Schr. F. E. McDonald, N. 25° 25′, W. 79° 55′†	29.83	757.7				nw.			5					0	0			clear.
Bk. George Davis, N. 41° 08′ W. 43° 18′						ene.			1				e.	0	0	sm'h	ene.	fair.
Bk. Gronsaver, N. 21° 10′, W. 58° 00′†	30.05	763.3	79.4	26.3		se.			3		5		se.	¾h'r	¾ h'r	sm'h		fair.
Bk. Galeon, N. 20° 49′ W. 90° 33′ †	30.05	763.3	78	25.6		ne.			3		6		n.	½h'r	½h'r	sm'h	n.	squally.
S. Hedwig, N. 39° 11′, W. 24° 05′			61.7	16.5	93	sse.			4		5		var.	6 h'r	6 h'r	4	nw.	
Bk. Hattie G. McFarland, Port Royal, S. C*†	29.60	751.8	60	15.6		wnw.			6		2		nw.	0	0			
Bk. John H. Pearson, N. 27° 09′, W. 23° 48′						sw.			1				sw.	0	0	sm'h		clear.
Schr. Isabel Alberto, Jersey City, N. J.						se.			2		10		se.	sh'rs	sh'rs			rain & fog.
Bk. Cato, N. 53° 54′, W. 10° 30′*†	30.13	765.3				wsw.			4		3		w.	0	0	long	nw.	clear.
Bk. Johanne, N. 42° 15′ E. 3° 32′*†	30.00	762.0	72	22.2		nnw.			1		3		n.	0	0	sm'h		hazy.
Bg. John Wesley, St. Andrew's Sound, Ga*†	29.72	754.9				w.			5		3		w.	0	0			fair.
Schr. Jennie N. Huddell, Baltimore, Md†	29.56	750.8	65	18.3	100	nw.			1		8		nw.	rain	rain			cloudy.
Bkt. Josephine, N. 27° 22′, W. 05° 20′†	30.00	762.0	79	26.1	74	se.			3		2		ese.	0	0	long	se.	fair.
Schr. Leonessa, Baltimore, Md †	29.51	749.5				nnw.			5		10		sw.	4 h'r	4h'r			cloudy.
Bg. L. & W. Armstrong, N. 31° 18′, W. 69° 57′*†	29.92	760.0				s.			4		3		s.	0	0	sm'h	sw.	clear.
Light House Tender, Laurel, Pensacola Bay, Fla†	29.90	759.4	58	14.4		nnw.			4		1		nnw.	0	0			clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.86	758.4	78	25.6		nw.			1		3		nw.	3 h'r	3 h'r			clear.
Bk. Milo, N. 48° 27′, W. 15° 40′†	30.15	765.8				se.			1				nw.			long	nnw.	fine.
S. S. Madrid, N. 38° 03′, E. 5° 34′†	30.22	767.6	68	20.0	79	ene.			2		0			0	0	sm'h	ne.	hazy.
Schr. Minnie A. Bonsall, N. 40° 30′, W. 73° 50′†	29.51	749.5	61	16.1		se.			1					6 h'r	6 h'r			foggy.
Bk. Matilda C. Smith, N. 39° 50′, W. 60° 59′ †	29.96	761.0				sw.			3		3		sw.	0	0	mod.		clear.
Bgt. Myrtle, N. 30° 05′, W. 00° 35′*†	30.20	767.1				s.			1		1		ssw.	0	0	h'vy	se.	clear.
Bk. Matthias, N. 40° 22′, W. 30° 12′*†	30.44	773.2	61	16.1		ne.			4		8		ene.	0	0	long	ne.	threatening.
Schr. Maggie Abbott, N. 38° 20′, W. 74° 25′†	29.39	746.5				sse.			7		4		var.	0	0			clear.
S.S. Mendoza, N. 21° 54′, W. 59° 15′						se.			2				se.	0	0	sm'h	ese.	clear.
Schr. Maud Briggs, N. 19° 10′, W. 57° 59′*†	30.18	766.6				se.			4		8		se.	0	0	sm'h	se.	fair.
Bk. Ottawa, N. 39° 05′, W. 38° 50′*	30.20	767.1	64	17.8		nne.			4		7		ne.	0	0	r'gh	ne.	fair.
Bk. Rebus, N. 52° 00′, E. 2° 39′	30.16	766.1	50	10.0		ssw.			1		1		s.	0	0	sm'h	nne.	clear.
Bk. Rosalie Saint John, Antigua, W. I*†	29.97	761.2				ese.			3				ese.	0	0			clear.
Bk. Scud, N. 31° 08′, W. 61° 40′*†	30.04	763.0	77	25.0		s.			3		1		ssw.	0	0	mod.	se.	clear.
Bk. Southern Belle, N. 36° 05′, W. 9° 20′†	30.17	766.3	76	24.4		ne.			2		0			0	0	sm'h		clear.
S. St. Francis, N. 43° 04′ W. 42° 01′			64	17.8	53	calm			0		1			0	0	mod.	ne.	fine.
S. S. Strathleven, N. 30° 15′, W. 55° 34′	30.20	767.1	69.8	21.0	92	se.			5		8		sw.	3 h'r	3 h'r	3	ssw	gloomy.
Bgt. Sunlight, N. 12° 36′, W. 59° 00′									5		6		ene.	2 h'r	2 h'r	mod.	ene.	fair.
Bg. Tenerife, N. 25° 15′, W. 74° 32						ssw.			6		0					mod.		
Bk. Tuck Sing, N. 23° 11′, W. 69° 24′ *†	29.90	759.4				se.			3		2		se.	0	0	mod.	ene.	fine.
Bk. Usko, N. 42° 39′, W. 31° 49′*	30.21	767.3	56	13.3		nne.			7		8			1 h'r	1 h'r	cross	ne.	cloudy.
Schr. Viola Reppard, N. 40° 45′, W. 71° 10′ †	29.75	755.6	60	15.6		sse.			4		10		sse.	2 h'r	2 h'r	long	se.	foggy.
Bkt. Wandering Jew, N. 36° 40′, W. 72° 00′†.	29.60	751.8	65	18.3		sw.			6		7		sw.	4 h'r	4 h'r	large	ssw.	cloudy.
Bk. Winifred, N. 30° 27′, W. 69° 40′ *†	29.90	759.4											ssw.	0	0	h'vy	sw.	d. clouds.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay *†	30.22	767.6	56.5	13.6	97	nw.			1		10							misty.
H. M. S. Boadicea, Cape Town, Cape Colony	30.03	762.7	59	15.0	94	nw.			3		10							overcast.
H. M. S. Sylvia, Montevideo, Uruguay	30.05	763.3	59.7	15.4	94	nw.			2		8	calm						d clouds.
H. M. S. Thetis, S. 14° 17′ W. 24° 13′	30.09	764.3	75	23.9	77	e.			4		4					3	sse.	d clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.02	762.5	60	15.6	100	wnw.	4	1.8			10		wnw.	0.76	19.3	sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	30.01	762.2	61	16.1	100	nnw.			1		10					sm'h		cloudy.
May Hulse, S. 42° 33′, W. 38° 19′	30.14	765.5	47	8.3	70	ssw.			4		5							d. clouds.
S. S. Hevelius, Montevideo, Uruguay†	30.07	763.8	62	16.7		sse.			3		fg.			2 h'r	2 h'r			foggy.
Bk. Horace Scudder, S. 7° 20′, E. 6° 20′*†	30.00	762.0	80	20.7		ssw.			5		5		ssw.	0	0	mod.	sw.	fair.
S. Mt. Washington, N. 6° 45′, W. 31° 57′*†	30.09	764.3	82	27.8	83	e.			4		5		var.	3 h'r	3 h'r	r'gh	sse.	fair.
S. Minnie N. Gerow, S. 36° 21′, W. 13° 00′†.	29.64	752.8	56	13.3		nw.			3		7		nw.	0	0	mod.	w.	fair.
S. Paramita, S. 11° 51′, W. 32° 50′†	29.97	761.3	80	26.7		ene.			4		1		var.	0	0	small	sse.	clear.
S. Wm. McGilvery, S. 0° 57′, W. 31° 30′ *†	30.00	762.0	82	27.8	83	sse.			3		9		sse.	0	0	gr'd	s.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.96	761.0	69	20.6	80	e.			1		1	ne.						blue sky.
H. M. S. Champion, N. 6° 00′, E. 107° 10′	29.73	755.1	84	28.9	100	sse.			4		10	s.				1	s.	d. clouds.
H. M. S. Sappho, N. 12° 45′, W. 87° 30′	29.86	758.4	80	26.7	100	ne.			2		5	ne.				4	sw.	d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 25′	29.96	761.0	59	15.0	88	calm			0		1	ne.						blue sky.
H. M. S. Magpie, N. 14° 00′, E. 120° 12′	29.87	758.7	82.4	28.0	79	sw.			2		8	ne.				3	sw.	d. clouds.
H. M. S. Swiftsure, Esquimalt, V. Id	30.09	764.3	47	8.3	92	calm			0		7							d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.92	760.0	69	20.6	80	calm			0		2	w.						d. clouds.
H.P.M. S. Tamega, Macao, China	29.89	759.2	82.4	28.0	85	e.			5–6		2			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.11	764.8	62	16.7	88	ne.			3		10		ne.	0	0			cloudy.
U. S. S. Adams, Sitka,, Alaska †	29.83	757.7	47	8.3	77	ese.			4		10					sm'h		drizzling
U. S. S. Hartford, N. 13° 40′, W. 150° 40′ *	29.78	756.4	78	25.6	91	ne.			5		5			0	0	mod.	ne.	fair.
U. S. S. Monocacy, Roze Island, Corea	29.98	761.5	63	17.2	83	wsw.			2		2		calm					misty.
U. S. S. Palos, Hong Kong, China	29.78	756.4	79	26.1	95	ene.			3		8		ene					cloudy.
U. S. S. Richmond, Hong Kong, China*	29.77	756.1	80	26.7	91	e.			3		8		e.	0	0			cloudy.
S. S. Mexico, N. 27° 29′, W. 114° 53′ †	29.88	758.9	64	17.8	73	nw.			1		0					long	w.	clear.
S. S. Coptic, N. 38° 00′, E. 149° 55′	30.16	766.1	59.0	15.0		ese.			4		6		ese.	0	0	sm'h		fair.
S. S. Oceanic, N. 29° 00′, E. 126° 25′ *	29.92	760.0	68	20.0	95	n.			5		4		ne.			3	ne.	fair.
S. S Oregon, N. 39° 53′, W. 124° 09′ †	30.04	763.0	51	10.6	79	nw.			6		8		nw.			r'gh	nw.	cloudy.
S. S. Willamette, Seattle, Wash. Ter*†	30.16	766.1	53	11.7	86	calm			0		4		ene.	0	0			fair.
S. S. Ancon, San Francisco, Cal †	29.90	759.4	51	10.6	93	w.			2		0							clear.
S. S. Dakota, Victoria, B. C †	30.08	764.0	49	9.4	?	calm			0		8		nw.	0	0	sm'h		cloudy.
S. S. G. W. Elder, San Francisco, Cal †	29.90	759.4	52	11.1	93	sw.			3		5			0	0			fair.
S. S. City of Pekin, N 47° 40′, W. 179° 03′ †	29.98	761.5	40	4.4	73	n.			3		5		ne.	0	0	small	n.	fair.
S. E. B. Sutton, N. 37° 00′, W. 135° 20†	30.36	771.1	58.5	14.7	91	nw.			1		9			0	0	sm'h	nw.	cloudy.
S. S. City of Rio de Janeiro, N. 37° 22′, W. 147° 10′ †	30.29	769.4	59	15.0	76	nw.			1		10		w.	0	0	light	w.	gloomy.
S. S. Colima, N. 32° 56′, W. 119° 06′ †	29.87	758.7	57	13.9	100	w.			5		10		w.	0	0	mod.		cloudy.
S. S. Granada, Panama Bay, Panama †	29.95	760.7	78	25.6	86	ne.			1		1			0	0			clear.
S. S. San Blas, N. 21° 54′, W. 105° 50′			77	25.0		calm			0		7		sw.			small	sw.	
S. S. San José, N. 18° 07′, W. 103° 32†	29.87	758.7	82	27.8		w.			2		2 k		sw.	0	0	long	sw.	clear.
S. S. Gordon Castle, N. 1° 40′, E. 125° 13′*	29.80	756.9	84.0	28.9	79	ssw.			2		7		ssw.					fair.
S. Armenia, N. 36° 50′, W 135° 20′*	30.19	766.8	62	16.7	77	calm			0		9			0	0	mod.	ne.	cloudy.
Bk. Bore, Macassar, Celebes Id*†	30.23	767.8	84	28.9		ese.			1									
S. Grecian, N. 20° 40′, E. 134° 20′†	29.97	761.2	86	30.0	84	calm			0		4		var.	0	0	mod.	e.	fair.
S. S. Malabar, Singapore, Malay Peninsula						var.					0			0	0	sm'h		clear.
S. S. Radnorshire N. 4° 58′, E. 106° 24′ *†	29.78	756.4				sse.			6		10		sse.	0	0		se.	overcast.
S. Titan, N. 35° 56′, W. 139° 37′*†	30.38	771.6	63	17.2	94	sw.			1		1		sw.	0	0	sm'h	s.	clear.
Bk. Xenia, N. 26° 48′, E. 124° 17′			73	22.8		nne.			3		10		nw.	0	0	sm'h	ne.	cloudy.
S. S. Columbia, N. 42° 17′, W. 124° 10′†	30.10	764.5	50	10.0	86	nnw.			4		3			0	0	mod	nw.	clear.
U. S. S. Ranger, N. 16° 01, W. 94° 15′	29.94	760.5	81	27.2	63	wnw.			3		2?			0.6	15.	mod.	n.	cloudy†
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			58	14.4	100	wsw.			1		9							raining.
H. M. S. Espiegle, S. 12° 30′, E. 177° 04′	29.80	756.9	81	27.2	87	ese.			4		4							d. clouds.
H. M. S. Kingfisher, S. 20° 31′, W. 146° 15′	29.87	758.7	76	24.4		e.			3–5		10					5	e.	showery.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	30.02	762.5	55	12.8		ese.			2							2	ese.	d. clouds.
H. M. S. Nelson, S. 30° 40′, E. 163° 00′	29.37	746.0	70	21.1	85	nw.			6–7		7	e.				7	var.	squally.
U. S. S. Iroquois, Valparaiso, Chili	30.14	765.5	52	11.1	79	se.			1		2					sm'h		clear.
U. S. S. Lackawanna, S. 33° 40′, W. 117° 22′*	29.95	760.7	61	16.1	66	sse.			6		8		sw.			r'gh	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	64	17.8	83	sse.			2		10		se.					cloudy.
U. S. S. Pensacola. Callao, Peru*	29.92	760.0	65	18.3	84	ese.	2	0.9			10			0	0			cloudy.
U. S. S. Wachusetts, S. 19° 38′, W. 173° 04′	29.88	758.9	75	23.9	81	se.			2		5		s.			long	sse.	fair.
S. S. Australia, S. 19° 36′, W. 173° 11′	29.89	759.2	76	24.4	86	ssw.			4		1		s.	0	0	sm'h		clear.
S. S. City of Sydney, Sydney, N. S. W *†	30.04	763.0	56	13.3	87	se.			4		8 kn		se.	0	0			cloudy.
S. S. Zealandia, S. 33° 48′, E. 175° 11′	29.93	760.2	68	20.0	95	ne.			6		10					h'vy	n.	raining.
S. David Crocket, S. 8° 40′, W. 110° 38′*	29.85	758.2	77	25.0	84	ene.			4		2		ene.	2 h'r	2 h'r	sm'h	ese.	showery.
H. M. S. Lark, S. 21° 18′, E. 156° 36′	29.96	761.0	69.3	20.7		w			5		7					3	w.	squally.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.77	756.1	85	29.4		sw.			1		4	s.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.65	753.1	90	32.2	67	sw.			1		1							blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.97	761.2	76	24.4	91	sse.			3		2	sse.				2	sse.	d clouds.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.67	753.6	82	27.8	75	sw.			3		2	sw.				2	ssw.	d. clouds
H. M. S. Woodlark, off Bushire, Persia	29.63	752.6	86	30.0	68	nw.			3–5		0					2	nw.	misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony*	29.95	760.7	65	18.3	89	w.			2		8		calm			sm'h		cloudy.
U. S. S. Juniata, Bombay, India	29.74	755.4	86	30.0	96	ssw.			3		5		ssw.	0	0	sm'h		fair.
S. S. Salerno, N. 14° 23′, E. 52° 49′†	29.93	760.2	87	30.6		sw.			2		0			0	0	sm'h	sw.	clear
Bk. Alpheus Marshall, S. 35° 27′, E. 20° 33′*†	29.83	757.7				nw.			1		10			0	0	str'ng	w.	foggy.
S. Annie M. Law, S. 25° 40′ E. 54° 43′*†	30.28	769.1	69	20.6		se.			2		0			½h'r	½h'r	mod.	sw.	clear.
Bk. Ceylon, S. 34° 41′, E. 25° 33′ * †	30.06	763.5	72	22.2	80	wsw.			4		7		se.	0	0	long	sw.	fair.
S. Dynomene, S. 35° 08′ E. 24° 18′	29.92	760.0	68	20.0	100	calm			0		8			0	0	light	sw.	misty.
Bk. Pilgrim, Samarang, Java, Oceania *†	29.87	758.7				ese.			2		1		ese.	0	0			clear.
S. St. David, S. 15° 26′ E. 104° 00′ *†	29.95	760.7	81.3	27.4	83	e.			5		8		ese.	0	0	short	ese.	cloudy.
S. S. Foscolio, N. 12° 43′ E. 50° 53′ †	29.82	757.4				w			2		2		sw.	0	0	sm'h		clear.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 23, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.13	765.4	75.9	24.4	87	s.			1		0			0	0	clear	Malaterre.
Algiers			30.10	764.5	72.3	22.4	71	nne.			1		0			0	0	clear	Thève.
La Galle			30.11	764.8	70.9	21.6	69	ese.			3		3			0	0	pretty fair	Fonfrède.
Tunis			30.15	765.7															Jacques.
Saida			30.15	765.9															Pérès.
Tebessa			30.11	764.8	79.2	26.2	18	nne.			4		3			0	0	pretty fair	St. Martin.
Geriville					80.6	27.0	16	wnw.			1		3			0	0	pretty fair	Forfert.
Laghouat			30.10	764.5	82.4	28.0	31	n.			2		4			inap.	inap.	cloudy	Abraham.
Biskra			30.08	764.1	88.2	31.2	52	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.81	757.2	54.1	12.3	65	ne.	11	4.9			9 k;ks		wnw.	0.143	3.6	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.82	757.4	29.91	759.7	50.0	10.0	79	nne.	5	2.2			9			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.56	750.7	30.09	764.3	68.0	20.0	41	s.			4		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.18	741.2	29.95	760.7	52.5	11.4	73	ssw.	11.2	5.0			10			0.126	3.2		Dr. Wierzbiski
Eperies	29.08	738.5	29.94	760.5	58.3	14.6	57	s.			1		10 ks			0	0		Julius Mikolik.
Gratz	28.84	732.6	30.08	763.9	65.1	18.4	48	nw.			6		7			0	0		Andreas Rospini.
Hermannstadt	28.60	726.4	30.03	762.8	55.9	13.3	46	nw.			2		8			0.102	2.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.76	730.4	30.07	763.7	64.8	18.2	47	w.			2	6 c	k			0	0	fair	The Staff.
Lemberg	28.90	734.0	29.88	759.0	52.9	11.6	52	w.			6		10			0.154	3.9		Dr. T. Stanecki.
Neu Schmecks	26.57	674.9	29.96	761.0	44.6	7.0	69	nw.			3		10			0.063	1.6		Dr. V. von Szontagh.
Pola	30.06	763.5	30.17	766.3	69.8	21.0	51	s.			3		4			0.028	0.7		I. R. Hydrographic Office.
Szathmar	29.50	749.3	29.96	760.9	59.0	15.0	35	w.			3		10			0.138	3.5		Joseph Midlinszky, S. J.
Szegedin	29.75	755.6	30.02	762.6	60.8	16.0	73	nw.			2		6			0	0		Karl Stancel.
Trieste	30.06	763.6	30.16	766.1	67.6	19.8	39	w.			1		1			0	0		Royal Academy.
Vienna	29.39	746.4	30.10	764.5	57.6	14.2	63	w.			2		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.74	755.4	29.84	757.9	62.8	17.1	45	w.	10	4.5			6			0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.86	758.4	30.09	764.3	62.0	16.7	56	sw.	13	5.8			3					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.12	765.0	58.1	14.5	81	w.	16	7.2			8					overcast	John Hartnup.
Bolton, Sharples	29.57	751.1	30.10	764.5	61.0	16.1	68	wsw.	18	8.0			5					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.67	753.6	30.07	763.8	62.8	17.1	52	w.			1		4			0	0	d. clouds	McLandsborough&Preston
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	78	25.6	91	ne.			2		8					overcast	Corpl. W. I. Cull, A.H.C.
Cardington	30.02	762.5	30.12	765.0	76.0	24.4	44	w.			1.0		0					blue sky	John McLaren.
Chatham, School M. E.	29.99	761.7	30.11	764.8	74.9	23.8	49	sw.			1		2					misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.99	761.7	30.21	767.3	64.3	19.9	67	wsw.			1		5					d. clouds	The Staff.
Fort Napier, Natal	27.69	703.3	29.92	760.0	82.0	27.8	27	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.71	754.6	29.94	760.5	85.0	29.4	64	n.			2		5					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	30.06	763.5	30.10	764.5	59	15.0	70	w.			2		5			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.07	763.8	30.12	765.0	71.5	21.9	92	nw.			2		3					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.82	757.4	30.02	762.5	52.9	11.6	73	w.			8		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.95	760.7	30.12	765.0	75.1	23.9	40	wsw.			4		0					blue sky	The Staff.
Guernsey	29.93	760.2	30.22	767.6	69.0	20.6	56	s.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.09	764.3	30.13	765.3	70.0	21.1	49	w.	11	4.9			0					blue sky	The Staff.
Leicester, Museum	29.84	757.9	30.08	764.0	70.0	21.1	50	nw.			1		1					blue sky	J. C. Smith.
Malta, Mediterranean	30.12	765.0	30.19	766.8	67.2	19.6	73	sw.					3					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.00	762.0	30.05	763.3	74.5	23.6	67	nw.			2		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.60	751.8	30.11	764.8	69.7	20.9	60	ssw.			2		2					misty	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.91	759.7	30.14	765.5	66.5	19.2	62	wsw.			3		0					blue sky	The Staff.
Plymouth	30.12	765.0	30.20	767.1	65.2	18.4	73	w.			2		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys	29.62	752.3	29.72	754.9	49.9	9.9	88						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.96	761.0	30.03	762.7	65.2	18.4	51	ne.			2		3					d. clouds	W. H. Lyne.
Sheffield	29.86	756.9	30.08	764.0	69.8	21.0	61	wsw.			2		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.03	762.7	30.00	763.5	58.0	14.4	73	wsw.			4		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.11	764.8	58.1	14.5	70	w.	17	7.6			6					d. clouds	W. C. Carlisle.
Truro, Royal Institution	30.18	766.6	30.28	769.1	67	19.4	64	w.			4		2					blue sky	W. Newcombe.
Valencia, Observatory	30.17	766.3	30.20	767.1	58.9	14.9	71	sw.	16	7.2			5					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.83	757.7	30.23	767.8	69.8	21.0	56	se.	4.4	2.0			9 cn		w.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	761.7	30.03	762.7	43	6.1	94	ne.	8	3.6			10 n		calm	0.065	1.6	light rain	H. J. Cundall, C. E
Chatham, N. B*	30.03	762.7	30.10	764.5	39	3.9	92	ne.	11	4.9			10 n		ne.	0.45	11.4	light rain	G. A. Blair.
Cornwall, Ontario	29.44	747.8	29.63	752.6	43.7	6.5	98	e.			2		10 n			0.390	9.9	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.07	763.8	30.12	765.0	39.5	4.2		e.			5		10 n			0.410	10.4	raining	H. A. Johnson.
Father Point, Quebec*	30.00	762.0	30.03	762.7	38	3.3	92	ne.	35	15.6			10 n			0.09	2.3	light rain	J. McWilliams.
Fort Garry, Manitoba*	28.94	735.1	29.76	755.9	50	10.0	90	sw.	9	4.0		0	2 ks		sw.	0	0	fair	James Stewart.
Fredericton, N. B	29.91	759.7	29.98	761.5	40.1	4.5	93	ne.	11	4.9			10 n			0.635	16.1	heavy rain	Prof. Harrison, L. L. D.
Granton, Ontario	28.71	729.2	29.82	757.4	40.0	4.4	100	calm	0	0			10 n			0.05	1.3	cloudy	Jas. Grant.
Halifax, N. S*	29.86	758.4	29.99	761.7	47	8.3		s.	8	3.6			fg.			0	0	foggy	A. Allison.
Hamilton, Ontario	29.32	744.7	29.71	754.6	43.2	6.2	92	e.			1	10 cs	0			0.75	19.0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.31	744.5	29.65	753.1	44	6.7	89	ne.	9	4.0			10 n		ne.	0.13	3.3	light rain	A. P. Knight, M. A.
Little Glace Bay, N. S	30.09	764.3	30.13	765.3	40.5	4.7	96	se.			4		10 n					raining	C. H. Rigby.
Montreal, Quebec*	29.48	748.8	29.69	754.1	44	6.7	93	ne.	14	6.3			10 n			0.24	6.1	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.45	748.0	29.69	754.1	44.8	7.1	89	n.			1		10 s			0.18	4.6	raining	A. McGill, M. A.
Parry Sound, Ontario*	29.09	738.9	29.78	756.4	47	8.3	56	n.	10	4.5		5 k	5 ks		ne.	0.12	3.0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.99	736.3	29.73	755.1	43.7	6.5	83	ne.			1		10 n			0.40	10.2		J. Dixon, B. A.
Port Dover, Ontario	29.06	738.1	29.75	755.6	43	6.1	100	nw.	5	2.2			10 n		nw.	0.42	10.7	threatening	H Morgan.
Port Stanley, Ontario	29.14	740.1	29.79	756.7	43	6.1	86	nw.	4	1.8			10 n		nw.	0.43	10.9	light rain	M. Payne.
Quebec, Quebec*	29.43	747.5	29.79	756.7	42	5.6	96	n.	24	10.7			10 ks		e.	0.08	2.0	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.30	744.2	29.70	755.9	46	7.8	77	calm	0	0			10 s		ne.	0.19	4.8	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.78	756.4	29.83	757.7	44	6.7	91	ne.	9	4.0			10 n			1.03	26.2	raining	
St. John, N. B	29.71	754.6	29.88	758.9	45.0	7.2	100	ne.	10	4.5			10 n			1.300	33.0	raining	G. Murdock, C. E.
Saint John's, N. F	30.06?	763.5?	30.32?	770.1?	38	3.3		ne.			1		10 n			0.25	6.3	overcast	J. Higgins.
St. Pierre, N. F			30.08	764.0	42.8	6.0		ne.			4					0.38	9.7		The Commandant
Saugeen, Ontario*	29.08	738.6	29.80	756.9	45	7.2	71	n.	9	4.0		5 cs	0			0	0	clear	
Stratford, Ontario	28.50	723.9	29.79	756.7	41.4	5.2	87	n.	6	2.7			10 s			0.395	10.1	d. clouds	C. J. Macgregor, M A
Sydney, C. B*	30.08	764.0	30.15	765.8	43	6.1	89	ne.	1	0.4			10 n			0.01	0.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.36	745.7	29.75	755.6	44	6.7	86	n.	13	5.8			10 n		ne.	0.11	2.8	cloudy	Magnetic Observatory.
Windsor, N. S	29.82	757.4	29.91	759.7	54.0	12.2	93	e.	6	2.7			10 n			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.73	729.7	29.80	756.9	42.5	5.8	89	w.	10	4.5			10 s			0.32	8.1	raining	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.71	754.6	29.78	756.4	58	14.4	96	se.	6	2.7			fg.			0.42	10.7	light rain	Lt. F. E. Wilmot, R.N.
London, Ontario	28.99	736.3	29.80	756.9	41.2	5.1	96	w.			1		10 n			0.43	10.9	rain & sleet	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
Cape Colony.																			
Cape St. Francis Lt. House	30.01	762.2	30.04	763.0	63.0	17.2	94	ese.	2.3	1.0	.....	0	9 ks	.....	.....	0	0	dense haze	John Duthie.
Springbok Fontein	27.88	708.1	.....	.....	79	26.1	37	n.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.11	637.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Guelny.
Tchang-kia-tchouang	29.62	752.4	29.73	755.2	71.2	21.8	76	se.	.....	.....	2	.....	2	.....	.....	0.059	1.5	.....	R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.77	756.2	29.80	756.8	63.7	17.6	94	se.	4.0	1.8	.....	8 cs	0	.....	.....	0.016	0.4	covered	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.81	757.2	29.86	758.4	53.8	12.1	67	nw.	20	9	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.93	760.1	29.95	760.6	54.7	12.6	78	wsw.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.80	756.8	29.84	757.9	30.4	— 0.9	90	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Jacobshavn, Greenland	29.60	751.8	29.65	753.0	29.5	— 1.4	.....	e.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	
Stykkisholm, Iceland	29.30	744.1	29.34	745.2	41.7	5.4	83	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.39	746.4	29.41	747.0	49.3	9.6	79	w.	31	14	.....	.....	3	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.80	756.8	29.89	759.1	52.3	11.3	73	wsw.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	Loerer Oesterbol.
Egyptian.																			
Cairo	29.77	756.1	.....	.....	95.4	35.2	.....	nnw.	4.5	2.0	.....	0	0	.....	.....	0	0	.....	Albert Ismalun.
French.																			
Agen, Normal School	29.60	751.9	30.23	767.8	75.6	24.2	56	w.	.....	.....	1	2 c	0	.....	.....	0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.69	754.2	30.24	768.2	65.8	18.8	63	ne.	.....	.....	1	.....	10 kn	.....	sw.	0	0	covered	M. Nicot, Director.
Arras, Engineer School	29.87	758.8	30.13	765.2	70.7	21.5	48	nw.	.....	.....	2	c	0	.....	.....	0	0	.....	M. Fénéon, Command't.
Avignon, Normal School	30.09	764.3	30.17	766.3	74.5	23.6	55	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.62	752.4	30.16	766.1	72.0	22.2	27	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.93	760.2	30.19	766.7	70.9	21.6	39	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Frère Eugène Marié.
Besançon, Normal School	29.27	743.5	30.15	765.7	73.4	23.0	37	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	29.91	759.8	30.17	766.2	75.0	23.9	33	nnw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.65	753.0	30.17	766.4	77.0	25	22	nne.	.....	.....	2	.....	1	.....	nne.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	30.02	762.4	30.26	768.6	74.8	23.8	58	sw.	.....	.....	1	.....	1	.....	sw.	0	0	.....	M. de Kermarée, Dir.
Caen, Normal School	30.13	765.3	30.21	767.3	73.0	22.8	54	nw.	.....	.....	1	.....	5	.....	nw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.84	758.0	30.16	766.0	75.4	24.1	75	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.64	752.8	30.13	765.3	76.6	24.8	19	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.81	731.8	30.12	765.0	73.4	23.0	25	n.	.....	.....	1	1 k	0	.....	.....	0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.34	745.3	30.18	766.5	76.1	24.5	15	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.33	744.9	30.17	766.3	68.4	20.2	30	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. Coulet, Director.
Gap, Normal School	27.56	701.0	30.05	763.3	72.5	22.5	34	w.	.....	.....	1	0	1 k	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du Rhone	29.04	737.7	30.14	765.5	71.6	22.0	44	sw.	.....	.....	2	.....	3	.....	sw.	0	0	.....	M. Kina, Director.
Grenoble. Normal School	29.36	745.7	30.11	764.8	75.6	24.2	38	nnw.	.....	.....	1	0	2 k	.....	.....	0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.62	726.9	30.11	764.8	74.3	23.5	29	e.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.11	764.8	30.38	771.6	73.4	23	64	ssw.	.....	.....	2	.....	2	.....	ssw.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.62	752.3	30.17	766.2	72.3	22.4	56	w.	.....	.....	2	0	1 k	.....	.....	0.083	2.1	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	764.4	30.20	767.0	73.4	23.0	59	sw.	.....	.....	2	.....	2	n.	.....	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.12	739.6	30.15	765.7	70.5	21.4	26	nnw.	.....	.....	1	0	0	.....	.....	0	0	clear	M. André, Director.
Mans, Normal School	29.91	759.7	30.21	767.4	68.9	20.5	80	n.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Piboën, Director.
Marseille, Observatory	29.92	759.9	30.19	766.7	69.1	20.6	66	wsw.	.....	.....	1	.....	5	.....	w.	0	0	.....	M. Stephan, Director.
Montlouis	25.01	635.3	29.85	758.3	47.3	8.5	89	w.	15.0	6.7	.....	.....	10	e.	.....	0.886	22.5	.....	M. Cave for Dr. Fines.
Montpellier, Normal School	29.99	761.7	30.11	764.8	70.9	21.6	82	sse.	.....	.....	2	.....	2	.....	.....	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.45	748.0	30.22	767.6	73.0	22.8	34	nnw.	.....	.....	1	ck	0	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.08	764.1	30.24	768.2	74.7	23.7	59	ese.	.....	.....	0–1	0	0	.....	.....	0	0	clear	M. Larocque, Director.
Perpignan, Observatory	30.04	763.1	30.15	765.9	75.6	24.2	52	e.	5.6	2.5	.....	.....	9	.....	.....	0	0	stormy	Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	544.2	.....	.....	42.4	5.8	.....	nw.	.....	.....	1	.....	10	.....	nw.	0.071	1.7	snowy	M. Vaussenat, Director.
Privas, Normal School	29.21	741.8	30.20	767.0	76.6	24.8	53	sw.	.....	.....	1	2 c	.....	s.	s.	0	0	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.36	644.1	.....	.....	53.4	11.9	48	ne.	.....	.....	1	0	2 k	.....	.....	0	0	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.14	765.6	30.17	766.4	79.9	26.6	35	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.95	760.8	30.16	766.1	75.2	24	41	nnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.04	712.1	30.10	764.4	73.6	23.1	53	nw.	.....	.....	1	.....	1	.....	e.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.16	766.1	30.21	767.3	71.6	22	47	sse.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Mouillot, Dir.
Saint Maur, Observatory	30.03	762.7	30.19	766.8	73.8	23.2	28	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.52	749.7	30.24	768.2	76.3	24.6	38	w.	.....	.....	1	.....	2	w.	.....	0	0	slightly cl'dy	M. Baillard, Director.
Tours	30.01	762.3	30.19	766.9	74.1	23.4	35	nnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. de Tastes.
Versailles, Observatory	29.70	754.3	30.19	766.8	72.3	22.4	71	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.10	764.5	30.25	768.3	70.0	21.1	45	w.	17.7	7.9	.....	1 c	0	.....	.....	0.004	0.1	.....	M. Cartier, Director.
German.																			
Ansbach	28.76	730.6	30.18	766.5	68.4	20.2	34	nw.	.....	.....	4	.....	1	nw.	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.26	743.3	30.12	765.0	68.9	20.5	56	nw.	.....	.....	2	3 cs	0	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	29.83	757.6	29.97	761.3	57.9	14.4	70	w.	.....	.....	2	.....	10	.....	.....	0.008	0.2	.....	Meteorological Institute.
Breslau	29.47	748.4	30.00	761.9	56.7	13.7	72	wnw.	.....	.....	2	.....	10	.....	.....	0.080	2.0	foggy	Royal University Obs'y
Carlsruhe	29.70	754.4	30.15	765.8	71.2	21.8	34	sw.	.....	.....	2	.....	1	nw.	.....	0	0	.....	Albert Senz.
Cassel	29.34	745.1	30.05	763.3	72.3	22.4	38	nw.	.....	.....	1	.....	8	nw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	.....	.....	30.10	764.6	73.4	23.0	34	sw.	.....	.....	1	.....	1	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.74	740.1	30.14	765.5	64.8	18.2	64	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.93	760.2	30.02	762.5	56.8	13.8	72	wnw.	.....	.....	6	.....	8	.....	.....	0	0	.....	E. Preller.
Kiel	29.95	760.8	29.97	761.2	57.2	14.0	62	wnw.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.64	752.8	30.03	762.8	66.6	19.2	38	wsw.	.....	.....	3	.....	8	w.	.....	0	0	hazy	H. Leppig, Asst.
Magdeburg	29.80	757.0	30.00	761.9	64.9	18.3	54	wsw.	.....	.....	4	.....	10	nw.	.....	0	0	hazy	Dr. Assmann.
Memel	29.72	755.0	29.77	756.2	48.0	8.9	78	wnw.	.....	.....	4	0	4 ks	.....	.....	.....	.....	.....	Issermann.
Munich	28.33	719.4	30.20	767.0	65.7	18.7	38	nw.	.....	.....	1	.....	1	sw.	.....	0	0	.....	Central Station.
Neufahrwasser	29.80	756.9	29.82	757.3	54.1	12.3	80	n.	.....	.....	2	.....	10	.....	.....	0.020	0.5	light rain	A. Lothes.
Neustadt, Palatinate	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dicknether.
Stuttgart	29.19	741.5	30.06	763.5	69.8	21.0	28	n.	.....	.....	2	.....	1	n.	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	29.93	760.3	29.96	760.9	53.8	12.1	80	wnw.	.....	.....	4	0	8 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.71	754.7	30.09	764.3	69.6	20.9	.....	ne.	.....	.....	0.5	3 k	0	.....	.....	0	0	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.55	750.4	29.60	751.7	86.3	30.2	87	ssw.	26.0	11.6	.....	.....	10	ne.	ssw.	0	0	overcast	
Deesa	29.10	739.2	29.55	750.6	101.6	38.7	29	wsw.	25.0	11.2	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.72	754.8	29.75	755.7	88.0	31.1	69	sw.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.90	708.6	29.71	754.5	90.0	32.2	45	w.	15.0	6.7	.....	.....	4	.....	.....	0	0	d. clouds	
Trichinopoly	29.44	747.6	29.70	754.5	99.6	37.6	45	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.20	690.7	29.68	753.8	84.8	29.3	48	ese.	9.0	4.0	.....	.....	1	s.	.....	0	0	d. clouds	
Lahore	28.94	735.0	29.67	753.5	89.1	31.7	26	n.	6.0	2.7	.....	.....	6	.....	.....	0	0	hazy	
Roorkee	28.83	732.3	29.74	755.3	74.8	23.8	69	calm	0	0	.....	.....	10	s.	.....	0.04	1.0	overcast	
Agra	29.08	738.8	29.64	752.7	92.2	33.4	42	sw.	2.0	0.9	.....	.....	2	.....	sw.	0.10	2.5	d. clouds	
Nagpur	28.54	724.8	29.52	749.8	107.0	41.7	14	w.	14.0	6.3	.....	.....	3	nw.	.....	0	0	d. clouds	
Jubbulpore	28.24	717.3	29.53	750.0	104.0	40.0	15	nw.	10.0	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.28	743.7	29.65	753.2	83.2	28.4	73	nnw.	7.0	3.1	.....	.....	7	nnw.	.....	0.29	7.4	d. clouds	
Allahabad	29.26	743.3	29.56	750.9	98.7	37.1	31	ne.	4.0	1.8	.....	.....	.....	.....	.....	0	0	.....	
Patna	29.38	746.3	29.56	750.8	99.7	37.6	34	ne.	4.5	2.0	.....	.....	6	n.	n.	0	0	d. clouds	
Hazaribagh	27.64	701.9	29.58	751.4	90.5	32.5	32	n.	7.4	3.3	.....	.....	10	.....	.....	.....	.....	thud'r storm	
Cuttack	29.52	749.8	29.60	751.9	93.1	33.9	59	w.	2.0	0.9	.....	.....	9	.....	s.	0	0	d. clouds	
Calcutta, Alipore	29.55	750.6	29.58	751.2	94.4	34.7	56	wsw.	4.0	1.8	.....	.....	3	.....	.....	0	0	d. clouds	
Dhubri	29.47	748.6	29.59	751.5	87.7	30.9	69	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.53	750.1	29.62	752.4	84.6	29.2	74	wsw.	2.2	1.0	.....	.....	4	.....	.....	0	0	blue sky	
Sibsagar	29.26	743.3	29.59	751.7	84.5	29.2	75	sw.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Jeypore	28.23	716.9	29.62	752.4	93.7	34.3	37	ne.	7.0	3.1	.....	.....	1	.....	ne.	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Bellary	28.22	716.8	.....	.....	100.0	37.8	23	w.	4	1.8	.....	5 ck	5	.....	.....	0	0	gloomy	
Zanzibar	.....	.....	29.98	761.5	77.2	25.1	81	ssw.	8.4	3.8	.....	.....	10	.....	sse.	0.95	24.1	drizzling	
ITALIAN.																			
Udine	29.74	755.5	30.15	765.7	68.5	20.3	40	sw.	2.5	1.1	.....	.....	4	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.63	752.5	30.13	765.4	72.1	22.3	38	nw.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Prof. G. V. Schiapparelli.
Padua	30.02	762.6	30.13	765.3	70.0	21.1	48	se.	6.9	3.1	.....	.....	1	w.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.23	742.4	30.12	765.0	71.6	22.0	49	nw.	2.5	1.1	.....	.....	2	ne.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.01	762.3	30.21	767.2	67.3	19.6	59	sw.	5.6	2.5	.....	.....	2	s.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.21	716.4	30.09	764.2	68.4	20.2	48	wnw.	.....	.....	4	.....	2	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.15	765.8	30.20	767.0	66.2	19.0	56	se.	9.8	4.4	.....	.....	3	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.92	759.9	30.17	766.3	70.9	21.6	43	w.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.06	763.6	30.15	765.7	68.7	20.4	50	sw.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.02	762.4	30.19	766.7	71.6	22.0	32	w.	12.5	5.6	.....	.....	2	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.92	760.0	30.17	766.4	65.5	18.6	29	nnw.	16.1	7.2	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.28	743.8	30.15	765.7	70.9	21.6	67	wnw.	3.8	1.7	.....	.....	4	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.99	761.7	30.18	766.5	68.5	20.3	56	se.	.....	.....	2	.....	7	s.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.96	761.0	30.21	767.3	64.9	18.3	51	ne.	9.4	4.2	.....	.....	1	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.13	765.4	30.18	766.5	70.5	21.4	59	s.	9.8	4.4	.....	.....	8	sw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.67	753.6	30.19	766.7	68.5	20.3	64	sw.	8.1	3.6	.....	.....	1	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.34	567.4	.....	.....	35.6	2.0	65	ne.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	22.39	568.6	.....	.....	46.4	8.0	54	ne.	.....	.....	1	.....	2	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.85	758.3	29.88	759.2	57.8	14.3	82	calm	.....	.....	0	2 ck	5 ck	w.	w.	0	0	cloudy	H. Hattori.
Awomori	29.94	760.5	29.97	761.2	50.3	10.2	88	ne.	12.3	5.5	.....	2 ck	0	.....	.....	0	0	fair	K. Ogawa.
Hamamatsu	29.93	762.0	29.96	760.9	61.4	16.3	91	calm	.....	.....	0	.....	10 s	.....	e.	0.051	1.3	overcast	
Kagoshima	29.89	759.3	29.91	759.6	68.9	20.5	89	calm	.....	.....	0	.....	10 s	.....	.....	0	0	cloudy	G. Miyanohaza.
Kioto	29.74	755.4	29.91	759.8	61.2	16.2	73	nne.	3.8	1.7	.....	8 cs	2 s	.....	.....	0	0	cloudy	M. Tojima.
Misaka	29.89	759.2	29.92	759.9	67.6	19.8	92	e.	.....	.....	1	3 cs	7 ks;s	w.	w.	0	0	cloudy	K. Masusaki.
Miyako	29.88	759.0	29.99	761.8	48.6	9.2	88	e.	3.6	1.6	.....	9 ks	0	nw.	.....	0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.68	753.9	29.87	758.7	66.5	19.2	90	calm	0	0	.....	10c;cs	0	nw.	.....	0.010	0.2	cloudy	S. Takehayashi.
Niigata	29.87	758.7	29.91	759.7	58.8	14.9	88	n.	3.1	1.3	.....	0	0	.....	.....	0	0	.....	M. Morita.
Nobiru	29.88	759.1	29.90	759.5	51.7	10.9	89	ne.	1.9	0.8	.....	3 cs	0	w.	.....	0	0	fair	H. Midzushina.
Numazu	29.91	759.7	29.94	760.6	58.2	14.6	85	calm	.....	.....	0	6 ck;c	0	w.	.....	0	0	fair	R. Kaneda.
Osaka	29.89	759.3	29.91	759.7	65.0	18.3	85	w.	1.3	0.5	.....	6cs;ck	4 s;ck	.....	.....	0.005	0.1	cloudy	H. Omura.
Tokei Obs'y, Yeddo	29.85	758.2	29.93	760.1	58.2	14.6	73	nnw.	7.3	3.2	.....	.....	10ck;s	.....	ne.	0	0	cloudy	The Staff.
Wakayama	29.85	758.3	29.91	759.6	66.7	19.3	82	calm	0	0	.....	6 ck	4 ck	.....	nw.	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.95	760.7	30.14	765.5	72.2	22.3	76	ene.	16.0	7.2	.....	.....	10n;ks	.....	ese.	0.01	0.3	raining	The Staff.
MEXICAN.																			
Guanajuato	23.67	601.2	29.89	759.2	57.2	14.0	91	ssw.	inap.	inap.	.....	.....	10 kn	.....	sw.	1.816	46.1	covered	Prof. Vicente Fernandez.
Leon	24.32	617.7	30.04	763.0	55.2	12.9	97	ese.	2.0	0.9	.....	.....	10 n	.....	.....	1.581	40.2	covered	Prof. M. Leal.
Mazatlan	29.67	753.5	29.93	760.1	70.0	21.1	90	ne.	0.9	0.4	.....	.....	8 n	.....	s.	0.532	13.5	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	71	21.7	84	.....	8.0	3.6	.....	9 ck	0	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.15	765.7	30.15	765.7	63.3	17.4	.....	wsw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.00	762.1	30.06	763.5	61.9	16.6	.....	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.08	764.1	30.08	764.1	56.7	13.7	.....	sw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.13	765.4	30.13	765.4	65.3	18.5	64	wsw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.07	763.7	30.11	764.9	72.3	22.4	50	wsw.	.....	.....	3	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.84	757.8	.....	.....	79.5	26.4	76	nne.	0	0	.....	.....	5	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.70	754.4	29.76	756.0	47.5	8.6	89	s.	9	4	.....	.....	10	.....	.....	1.008	25.6	raining	
Brono	29.47	748.4	29.50	749.4	45.0	7.2	83	sw.	.....	.....	6	.....	9	.....	.....	0	0	.....	
Christiania	29.49	749.1	29.63	752.7	59.7	15.4	22	wnw.	7	3	.....	.....	8	.....	.....	0	0	.....	
Gjesvær	29.66	753.3	29.68	753.9	51.4	10.8	.....	s.	.....	.....	6	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.44	747.7	29.48	748.9	48.0	8.9	56	se.	.....	.....	2	.....	10	.....	.....	0.201	5.1	.....	
PORTUGUESE.																			
Angra, Azores	29.91	759.8	30.07	763.8	62.1	16.7	85	e.	13.6	6.1	.....	.....	4	.....	.....	0.453	11.5	.....	Dr. J. A. Sampaio.
Campo Major	29.17	740.8	30.14	765.5	75.6	24.2	51	w.	2.5	1.1	.....	.....	3	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.07	763.8	30.16	766.0	66.4	19.1	80	sw.	4.3	1.9	.....	.....	2	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.3	30.19	766.7	71.4	21.9	60	sw.	6.3	2.8	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.88	758.9	29.95	760.7	65.5	18.6	78	ese.	5.6	2.5	.....	.....	3	n.	.....	0.102	2.6	.....	
Saint Paul de Loando	29.69	754.2	29.89	759.3	79.7	26.5	79	w.	1.3	0.6	.....	.....	5	se.	.....	0	0	.....	
Serra da Estrella	25.47	647.0	30.13	765.3	58.5	14.7	57	ese.	11.9	5.3	.....	.....	4	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.72	729.6	29.72	755.0	80.0	30.0	20	s.	7	3	.....	2 ck	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.94	760.4	29.96	760.9	44.2	6.8	60	nw.	9	4	.....	2 cs	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashurada	30.01	762.3	29.92	759.9	79.0	26.1	76	wnw.	4	2	.....	3 ck	0	.....	.....	0	0	.....	
Astrakhan	29.94	760.4	29.85	758.3	83.5	28.6	37	n.	4	2	.....	0	2 k	.....	.....	0	0	.....	Capt. Wisganow.
Baku	29.97	761.2	29.92	760.0	79.7	26.5	46	nne.	4	2	.....	0	0	.....	.....	0.004	0.1	.....	
Barnaul	29.53	752.7	30.13	765.2	63.1	17.3	20	ne.	4	2	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y
Bielosersk	29.41	747.0	29.87	758.6	58.1	14.5	66	ne.	9	4	.....	0	8 ks	.....	.....	0	0	.....	
Dorpat	29.47	748.6	29.72	754.8	46.4	8.0	83	ene.	11	5	.....	.....	10 n	.....	.....	0.094	2.4	raining	Observatory.
Ekaterinburg	28.84	732.0	29.74	755.3	85.1	29.5	28	se.	7	3	.....	ck	6 k	.....	.....	0	0	.....	Meteorological Obs'y
Elissawetgrad	29.52	749.7	29.96	761.0	59.7	15.4	43	wsw.	13	6	.....	0	6 k	.....	.....	inap.	inap.	.....	
Irkutsk	28.04	727.4	30.32	770.0	43.3	6.3	45	nw.	7	3	.....	.....	9	.....	.....	0	0	.....	
Kasalinsk	29.27	743.5	29.45	748.0	85.6	29.8	42	calm	0	0	.....	.....	10 k	.....	.....	.....	.....	.....	
Kasan	29.52	749.9	29.77	756.2	85.8	29.9	25	sw.	7	3	.....	0	5 k	.....	.....	0	0	.....	Observatory.
Kem	29.90	759.4	29.95	760.7	40.4	8.0	39	e.	18	8	.....	0	1 ks	.....	.....	0	0	.....	
Kertch	29.90	760.9	29.98	761.5	59.2	15.1	65	calm	0	0	.....	.....	10 n	.....	.....	0.327	8.3	.....	Lagorio & Sastyrea.
Kieff	29.16	740.0	29.78	756.5	55.6	13.1	61	sw.	18	8	.....	ck	4 ks	.....	.....	0.008	0.2	.....	Observatory.
Koslov	29.25	743.0	29.70	756.0	75.0	23.9	58	wnw.	4	2	.....	0	5 kn	.....	.....	.....	.....	thnd'r storm	
Libau	29.71	754.5	29.73	755.1	50.4	10.2	95	w.	9	4	.....	.....	1	.....	.....	0	0	.....	E. Quaas.
Lugan	29.04	752.9	29.82	757.5	64.0	17.8	87	ese.	9	4	.....	.....	9	.....	.....	1.075	27.3	.....	Meteorological Obs'y.
Moscow	29.24	742.0	29.68	753.9	73.6	23.1	49	sw.	7.8	3.5	.....	0	3 ks	.....	.....	0.287	7.3	.....	Meteorological Obs'y
Nikolaiev	29.93	760.3	30.01	762.2	62.8	17.1	50	w.	9	4	.....	0	7 kn	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.76	755.8	29.84	758.0	56.3	13.5	36	calm	0	0	.....	.....	10	.....	.....	inap.	inap.	.....	Iwanow.
Pekin, China	29.54	750.2	29.68	753.8	70.3	21.3	78	s.	2.2	1.0	.....	0	6 ks	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.40	746.7	29.72	754.9	94.1	34.5	24	w.	1.1	0.5	.....	0	4 k	.....	.....	0.083	2.1	.....	
Petrozavodsk	29.68	753.9	29.88	758.9	50.9	10.5	55	se.	16	7	.....	0	1 s	.....	.....	0.079	2.0	.....	Dr. Bergmann.
Pinsk	29.19	741.3	29.69	754.1	42.1	5.6	91	wnw.	34	15	.....	.....	10 n	.....	.....	1.756	44.6	raining	
Poti	29.91	759.7	29.94	760.5	68.0	20.0	94	s.	9	4	.....	0	8 n	.....	.....	0	0	.....	
St. Petersburg	29.73	755.2	29.70	755.8	53.4	11.9	55	ne.	11	5	.....	.....	10 s;n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.42	699.4	29.73	755.1	84.4	29.1	39	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.38	746.2	30.01	762.2	72.5	22.5	18	n.	7	3	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.79	756.7	30.02	762.4	58.3	14.6	58	nw.	20	9	.....	.....	9 n	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Starol Bykhov	29.24	742.6	29.69	754.2	49.5	9.7	83	s.	16	7			10kn			0.421	10.7	raining	
Tashkend	28.15	715.1	29.70	754.3	88.2	31.3	31	calm	0	0		0	4 k			0	0		Terch, A. M.
Tiflis	28.48	723.3	29.81	757.1	86.4	30.2	29	se.	4	2		0	3 k			0	0		Physical Observatory.
Vernoe	27.32	693.8	29.65	753.2	82.0	27.8	21	ne.	2	1		0	1 k			0	0		
Vlatka	29.21	742.0	29.82	757.3	73.4	23.0	45	calm	0	0			0			0	0		
Warsaw	29.41	746.9	29.82	757.5	57.7	14.3	36	nnw.	16	7			9 k			0.366	9.3	hvy. clouds	Astronomical Obs'y.
Yeniseisk	29.98	761.6	30.27	768.9	50.0	10.0	49	s.	2	1			10			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.86	758.4	52	11.1	86	sw.			4		10			0.2	5.	hazy	J. Youngclauss
North Unst			29.79	756.7				sw.			6		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.11	764.8	30.21	767.2	68.0	20.0	67	e.	2.5	1.1		0	8			0.035	0.9		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.19	766.9	30.25	768.4	72.3	22.4	60	nw.	1.8	0.8		2	0	ne.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.25	692.2	30.15	765.9	66.9	19.4	53	e.	6.3	2.8		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.95	709.9	30.10	764.5	76.5	24.7	50	s.	6.5	2.9		0	3			0	0		The Staff.
Murcia, Met. Obs'y	29.97	761.3	30.11	764.8	82.2	27.9	67	n.	5.4	2.4		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.42	747.3	30.29	769.3	61.7	16.5	81	nw.	7.8	3.5		6 n	4 k	w.	w.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.26	743.3	30.15	765.7	67.3	19.6	69	n.	14.3	6.4			6			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.97	761.2	30.04	763.0	77.0	25.0	58	ene.	4.5	2.0		3 k;c	1 k;s	w;sw	nne.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.5	29.88	758.9	84.2	29.0	86	sw.	19.7	8.8		0	1 ks		e	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.09	764.3	30.19	766.8	74.7	23.7	68	wnw.	5.2	2.3		0	1		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.94	760.4	30.03	762.7	81.0	27.2	85	se.	2.2	1.0		0	3 k		e.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Hapsranda	29.65	753.0	29.69	754.0	56.8	13.8	47	se.			4		10			0	0		
Umea	29.55	750.6	29.60	751.9	39.9	4.4	97	sw.			6		10			0.402	10.2		
Hernosand	29.52	749.9	29.58	751.2	55.8	13.2	60	w.			4		5			0.189	4.8		
Stockholm	29.48	748.8	29.06	753.3	60.3	15.7	43	sw.			2		1			0.004	0.1		
Wisby	29.66	753.3	29.72	754.8	54.7	12.6	80	wsw.			2		10			0	0		
Sub-series.																			
Upsala	29.63	752.5	29.71	754.7	59.9	15.5	51	wsw.	6.7	3.0			6	wsw.	w.	inap.	inap.		S. G. Fineman.
SWISS.																			
Geneva	28.75	730.3	30.15	765.8	65.1	18.4	38	n.			3		0			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			30.07	763.8	61.2	16.2	49	n.	12	5.5			5		ne.	0	0		The Observatory.
Valona			30.21	767.3	65.5	18.6		nw.			3		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.95	760.7	76.5	24.7	57	n.			1		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.72	678.7			58	14.4	60						10 n		calm			cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.54	750.3	29.62	752.3	54	12.2	86	n.	1	0.4			10 s		w.	0.70	17.8	cloudy	J. O. Barnes.
Alpena, Michigan	29.26	743.2	29.92	760.0	38	3.3	82	nw.	11	4.9		4 c	1 s	nw.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.99	634.7	29.81	757.2	46	7.8	65	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.05	687.1	29.89	759.2	45	7.2	76	sw.	4	1.8			10 s		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.85	732.8	30.02	762.5	46.0	7.8	76	nw.	10	4.5		0	0			inap.	inap.	clear	Edward A. Beals.
Atlantic City, New Jersey	29.66	753.4	29.67	753.6	54	12.2	80	w.	8	3.6			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.79	756.7	29.98	761.5	46	7.8	76	w.	2	0.9		0	0			0	0	clear	John Healy.
Baltimore, Maryland	29.69	754.1	29.74	755.4	51	10.6	66	w.	8	3.6			10 s		nw.	0.01	0.3	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	29.62	752.3	29.64	752.8	56.0	13.3	80	w.	11	5			8 k		w.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.89	759.2	29.91	759.7	35.4	1.9		se.	5	2.2		0	fg.			0.12	3.0	light fog	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.14	714.7	29.70	754.4	58.0	14.4	72	se.	9	4.0		5 k	5 s	se.	se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.14	689.3	29.93	760.2	51	10.6	66	calm	0	0		0	6 ks			0	0	fair	S. Wheaton.
Billings, Montana	26.62	676.1	29.80	756.9	49	9.4	83	calm	0	0			10 s			0.34	8.6	cloudy	T. Gibson.
Bismarck, Dakota	27.94	709.7	29.73	755.1	55	12.8	64	e.	10	4.5			10 ks		s.	0	0	threatening	Cyrus Cramer.
Block Island, Rhode Island	29.63	752.6	29.66	753.4	53	11.7	100	ne.	3	1.3			10 s			0.59	15.0	cloudy	J. T. Elker.
Boise City, Idaho	27.10	689.9	30.00	762.0	49	9.4	80	se.	2	0.9			10 s			0.04	1.0	cloudy	J. Kenealy.
Boston, Massachusetts	29.51	749.5	29.67	753.6	54.0	12.2	100	ne.	3	1.3			fg.			3.00	76.2	dense fog	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.01	762.2	60.0	15.6	84	se.	4	1.8		2 c	0			0	0	clear	M. McCarty.
Buffalo, New York	28.98	736.1	29.72	754.9	41.4	5.2	100	nw.	8	3.6			10n;fg			0.55	14.0	light rain	W. Finn.
Buford, Fort, Dakota	27.90	708.6	29.88	758.9	48	8.9	100	n.	6	2.7			10 n			0.08	2.0	light rain	F. A. Mellen.
Burlington, Vermont	29.36	745.7	29.65	753.1	46.0	7.8	93	n.	7	3.1			10 s		w.	0.44	11.2	cloudy	D. N. Farnell.
Cairo, Illinois	29.72	754.9	30.12	765.0	51.7	10.9	68	n.	4	1.8		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	29.74	755.4	29.76	755.9	54	12.2	66	sw.	10	4.5			10 s		s.	0.08	2.0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.67	753.0	29.70	754.4	52.0	11.1	80	w.	20	8.9			10 s		w.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.47	748.5	30.15	765.8	49	9.4	93	nw.			2		10 s		nw.	0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	54	12.2	66	nw.	10	4.5		1 c	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.88	758.9	29.93	760.2	51.0	10.6	65	w.	12	5.4		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.03	737.3	29.87	758.7	53.0	11.7	55	nw.	3	1.3		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.21	741.9	30.02	762.5	47.5	8.6	82	w.	3	1.3		1 cs	0			inap.	inap.	clear	B. L. Goulding.
Cheyenne, Wyoming	23.91	607.3	29.78	756.4	49.1	9.5	56	nw.	12	5.4			10 k		nw.	inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.33	745.0	30.03	762.7	44.9	7.2	52	nw.	5	2.2		0	0			0	0	clear	John Laurens.
Chincoteague, Virginia	29.70	754.4	29.72	754.9	52	11.1	80	nw.	9	4.0			10 ks			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.32	744.7	29.97	761.2	43.0	6.1	74	nw.	7	3.1			10 s		w.	0.04	1.0	cloudy	L. Dunne.
Cleveland, Ohio	29.09	738.9	29.82	757.4	43.3	6.3	78	n.	10	4.5			10 n		n.	0.21	5.3	light rain	J. B. Newlin.
Coleman City, Texas	28.17	715.5	29.96	761.0	55	12.8	80	s.	1	0.4		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.05	737.9	29.89	759.2	39	3.9	82	w.	8	3.6			10 s		nw.	0.05	1.3	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.02	711.7	29.92	760.0	55.6	13.1	74	s.	1	0.4		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.39	746.5	30.03	762.7	49	9.4	77	sw.	1	0.4		1 ck	hz.			0	0	dense haze	R. R. Martin.
Davis, Fort, Texas	25.16	639.1	29.88	758.9	61	16.1	65	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.25	717.5	30.00	762.0	49	9.4	86	sw.	12	5.4			10 n		sw.	inap.	inap.	light rain	D. Moore.
Deadwood, Dakota	25.16	639.1	29.68	753.9	53	11.7	69	sw.	12	5.4		0	0			0.02	0.5	clear	F. Willson.
Delaware Breakwater, Del	29.68	753.9	29.70	754.4	51	10.0	80	w.	16	7.2			10 ks		w.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.62	625.3	29.78	756.4	53.5	11.9	67	s.	6	2.7			10 s		w.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.14	740.1	30.02	762.5	46	7.8	77	ne.	2	0.9		5 cs	0	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.16	740.7	29.86	758.4	46.0	7.8	83	nw.	8	3.0		10 cs	0			0.10	2.5	cloudy	E. R. Brace.
Dodge City, Kansas	27.25	692.1	29.80	756.9	56	13.3	53	s.	12	5.4		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.34	745.2	30.04	763.0	44	6.7	67	calm	0	0		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.24	742.7	29.99	761.7	49	9.4	37	calm	0	0		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.21	741.9	30.01	762.2	58.3	14.6	57	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.21	640.3	29.89	759.2	40	4.4	76	calm	0	0		3 k	3 s	w.	nw.	0.25	6.3	fair	H. R. Boynton.
Eastport, Maine	29.77	756.1	29.84	757.9	45.0	7.2	100	ne.	16	7.2			10n;fg		ne.	2.30	58.4	heavy rain	D. C. Murphy.
Elliott, Fort, Texas	27.14	689.3	29.84	757.9	55	12.8	69	s.	8	3.6			0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.17	664.7	29.81	757.2	63.0	17.2	36	e.	4	1.8		8 cs	0	e.		0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.05	737.9	29.77	756.1	43	6.1	93	nw.	8	3.6			1c s		nw.	0.56	14.2	cloudy	C. A. Shaw.
Escanaba, Michigan	29.35	745.5	30.01	762.2	45.0	7.2	27	nw.	4	1.8		1 cs	0			0	0	clear	George Heathcote.
Galveston, Texas	30.01	762.2	30.05	763.3	68	20.0	66	e.	3	1.3		0	1 ks			0	0	clear	E. O'C. Macinerney.
Grand Haven, Michigan	29.33	745.0	29.99	761.7	46.5	8.1	61	w.	8	3.6		0	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.20	640.1	29.81	757.2	59.9	15.5	35	ne.	5	2.2		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.78	756.4	29.80	756.9	58	14.4	65	nw.	14	6.3		6 ck	hz.	n.		0	0	fair	R. M. Crawford.
Helena, Montana	25.68	652.3	29.85	758.2	44	6.7	68	sw.	8	3.6		8 cs	0	sw.		0	0	cloudy	N. C. Smith.
Huron, Dakota	28.41	721.6	28.76	755.9	51.2	10.7	80	se.	14	6.3		2 k	7k;ks	se.	se.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.20	741.7	29.99	761.7	43.0	6.1	74	nw.	5	2.2		0	0			0.01	0.3	clear	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.03	762.7	67.0	19.4	68	s.	6	2.7		0	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.84	732.5	29.99	761.7	59	15.0	60	se.	4	1.8		1 c	0			0	0	clear	D. J. Carr.
Jacksonville Florida	30.00	762.0	30.04	763.0	59	15.0	60	w.	8	3.6		0	0			0	0	clear	J. W. Smith.

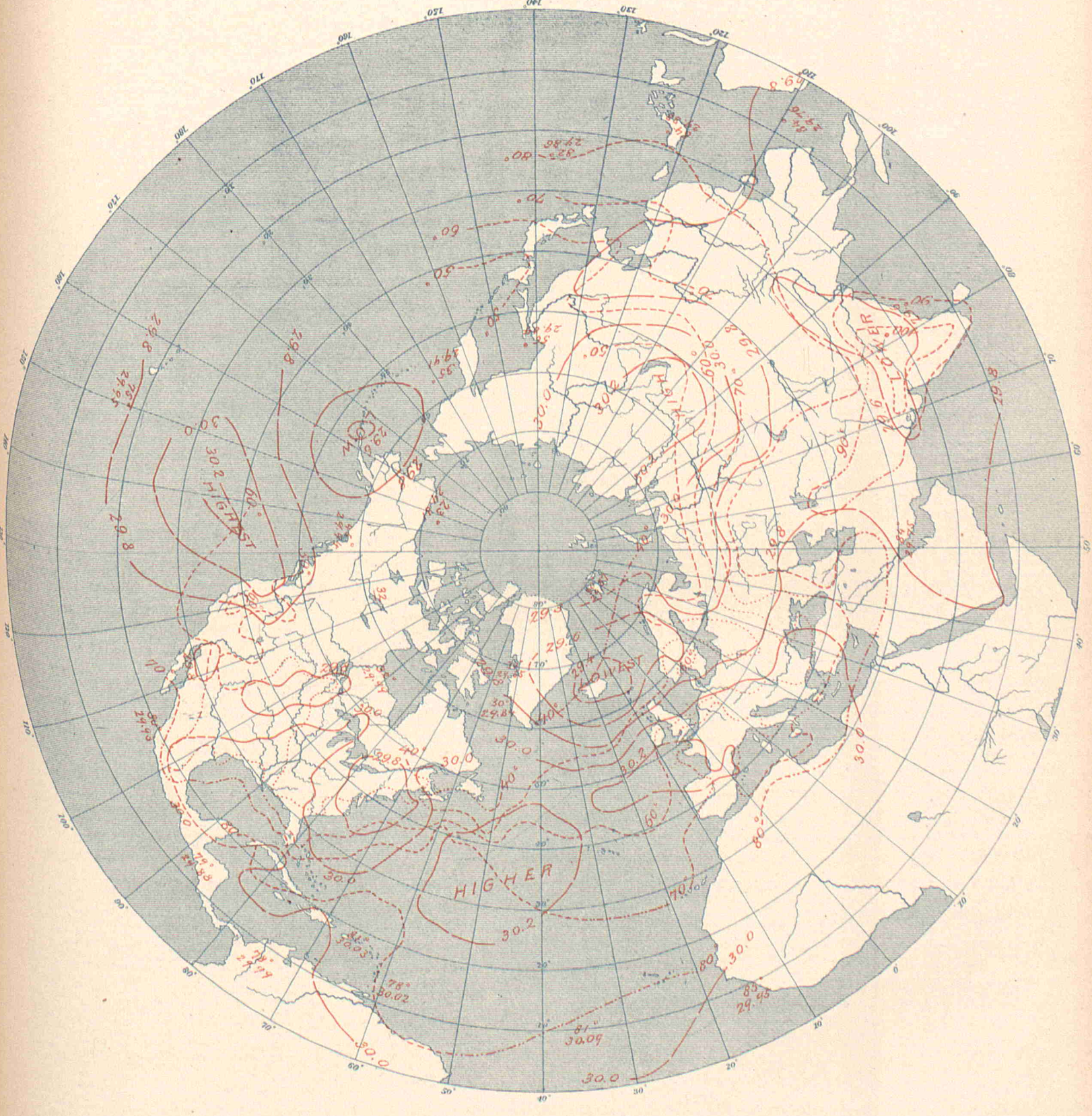
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.38	695.4	29.82	757.4	47	8.3	100	n.	24	10.7			10 n			0.52	13.2	light rain	W. B. Lamar.
Keokuk, Iowa	29.38	746.2	30.03	762.7	51.0	10.6	66	calm	0	0		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762.0	76.0	24.4	60	n.	7	3.1		1 cs	3 k		n.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.79	756.7	29.81	757.2	56	13.3	69	nw.	14	6.3		0	9 k		nw.	0.50	12.7	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.98	736.1	30.00	762.0	44.3	6.8	89	sw.	5	2.2			10 s			inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.00	762.0	52	11.1	52	s.	4	1.8		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.14	740.1	30.02	762 5	51	10.6	72	s.	5	2.2		1 cs	0	w.		0	0	clear	A. W. Browne.
Lewiston, Idaho	29.15	740.4	29.99	761.7	51.0	10.6	72	e.	2	0.9		7 k	3 s	w.		0.01	0.3	cloudy	W. Bell.
Little Rock, Arkansas	29.77	756.1	30.08	764.0	52	11.1	80	calm	0	0		3 c	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.52	749.8	29.92	760.0	59	15.0	93	e.	1	0.4			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.42	747.3	29.97	761.2	46	7.8	83	nw.	12	5.4		0	1 s		nw.	inap.	inap.	clear	L. M Dey.
Lynchburg, Virginia	29.09	738.9	29.77	756.1	53	11.7	48	w.	6	2.7		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.33	745.0	29.98	761.5	45.0	7.2	49	nw.	3	1.3		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.82	757.4	29.83	757.7	53.0	11.7	66	w.	14	6.3		0	9 s		w.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.45	646.4	29.86	758.4	44	6.7	86	w.	12	5.4			10 n		w.	0.17	4.3	light rain	F. Burke.
Marquette, Michigan	29.30	744.2	30.02	762.5	47	8.3	35	w.	6	2.7		0	0			0	0	clear	E. H. Thompson.
Memphis, Tennessee	29.76	755.9	30.09	764.3	50	10.0	72	ne.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.28	743.7	30.02	762.5	44	6.7	45	n	5	2.2		1 cs	sk.			0	0	clear	W. Line.
Missoula, Fort, Montana	26.67	677.4	29.97	761.2	47	8.3	77	nw.	1	0.4			10 s			0	0	threatening	J. H. Young.
Mobile, Alabama	30.08	764.0	30.12	765.0	50.3	10.2	75	nw.	4	1.8		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	29.82	757.4	30.05	763.3	47.8	8.8	83	w.	4	1.8		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.77	730.7	29.75	755.6	48	8.9	71	s.	7	3.1		4 k	0	s.		0	0	fair	H. Bessaut.
Mt. Washington, N. H	23.55	598.2	29.73	755.1	38.6	3.7	97	se.	44	19.7		5 c	fg.	s.	se.	1.01	25.7	fair	S. W. Beall.
Nashville, Tennessee	29.46	748.3	30.03	762.7	48.5	9.2	84	w.	8	3.6		0	0			inap.	inap.	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.52	749.8	29.64	752.8	54	12.2	100	se.	3	1.3			fg.			0.63	16.0	dense fog	J. H. Sherman.
New London, Connecticut	29.62	752.3	29.66	753.4	54	12.2	100	se.	4	1.8			fg.			1.45	36.8	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.06	763.5	30.11	764.8	60.3	15.7	54	e.	7	3.1		0	0			0	0	clear	H. C. Smyth.
New York, New York	29.47	748.5	29.65	753.1	55	12.8	86	s.	4	1.8		3 cs	5 s	s.		inap.	inap.	cloudy	G. E. Franklin.
Norfolk, Virginia	29.72	754.9	29.75	755.6	56	13.3	62	w.	7	3.1		0	8 s			0	0	cloudy	Wm. Davis.
North Platte, Nebraska	26.90	683.2	29.77	756.1	53.6	12.0	78	se.	14	6.3			10 s		se.	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.16	766.1	30.20	767.1	41.0	5.0	92	s.	4	1.8			10 n			0.51	13.0	light rain	J. Dascomb.
Omaha, Nebraska	28.83	732.3	29.99	761.7	54.4	12.4	62	se.	1	0.4		8 k	0	w.		0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	29.80	756.9	29.81	757.2	23.4	— 4.8	100	se.	14	6.3			10 s			inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.29	744.0	29.62	752.3	41.5	5.3	96	n.	10	4.5			10 n			0.27	6.9	light rain	J. G. Linsley.
Palestine, Texas	29.53	750.0	30.08	764.0	54.0	12.2	70	e.	10	4.5		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.12	765.0	53.3	11.8	61	n.	4	1.8		1 cs	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.58	751.3	29.68	753.9	54	12.2	93	sw.	8	3.6		0	6 ks		sw.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.78	451.6	29.84	757.9	22	— 5.6	80	nw.	36	16.1		0	5 ks		nw.	0	0	fair	H. Hall.
Pioche, Nevada	24.00	609.6	29.92	760.0	52.0	11.1	59	nw.	4	1.8		3 cs	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	28.99	736.3	29.79	756 7	42.5	5.8	96	nw.	8	3.6			10 s		nw.	0.44	11.2	cloudy	W. A. Reid.
Poplar River, Montana	27.74	704.6	29.86	758.4				sw.				0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.17	740.9	29.85	758.2	45.0	7.2	76	n	18	8.0	1		10 s		n.	0.15	3.8	cloudy	M. H. Perry
Portland, Maine	29.66	753.4	29.71	754.6	51.5	10.8	93	ne.	11	4.9			10n;fg		ne.	0.91	23.1	light rain	W. W. Eichelberger
Portland, Oregon	30.10	764.5	30.17	766.3	52.0	11.1	72	sw.	5	2.2			10 s		s.	inap.	inap.	cloudy	M. L. Hearne.
Portsmouth, N. C					58	14.4	69	w.	12	5.4			10 s		w.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.82	757.4	47.3	8.5	48	sw.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.64	752.8	29.67	753.6	58	14.4	93	sw.	4	1.8		0	9s;fg		sw.	1.37	34.8	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.02	762.5	30.03	762.7	70.5	21.4	42	w.	12	5.4		3ck;c	0	w.		0	0	clear	W. J. Evans.
Red Bluff, California	29.65	753.1	30.00	762.0	62	16.7	41	n.	5	2.2		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.04	737.6	29.70	754.4	41	5.0	100	nw.	9	4.0			10n;fg			0.54	13.7	light rain	E. W. McGann.
Roseburg, Oregon	29.66	753.4	30.22	767.6	51.5	10.8	75	e.	2	0.9			10 ks		sw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.88	758.9	29.96	761.0	62.5	16.9	78	n.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.51	749.8	30.10	764.5	45.2	7.3	93	n.	4	1.8		1 c	sk;fg		w; nw.	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.79	756.7	29.83	757.7	32	0.0	88	n.	5	2.2		0	0			0	0	clear	A. P. Leavitt.
St. Paul, Minnesota	29.12	739.6	29.96	761.0	47.5	8.6	86	s.	4	1.8		7 cs	0	n.		0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	28.92	734.6	29.78	756.4	49	9.4	86	s.	3	1.3		5 cs	0			0.02	0.5	fair	C. B Dilley
Salt Lake City, Utah	25.58	649.7	29.90	759.4	58	14.4	29	calm	0	0		4 c	0			0	0	fair	J. Craig.
San Antonio, Texas	29.33	745.0	30.03	762.7	55	12.8	86	e.	1	0.4		0	0			0	0	clear	J. H. Davis.
San Diego, California	29.79	756.7	29.86	758.4	59.3	15.2	83	se.	4	1.8			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.61	752.1	29.64	752.8	56.0	13.3	80	sw.	11	4.9		8 k	0	sw.		0.01	0.3	cloudy	B. A. Blundon.
Sanford, Florida	30.00	762.0			54.5	12.5	69	nw.	5	2.2		0	0			0	0	clear	J. B. Marbury.
San Francisco, California	29.94	760.5	30 01	762.2	53	11.7	75	sw.	2	0.9		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.19	589.0	29.80	756.9	52	11.1	47	se.	3	1.3		2 ck	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.90	759.4	29.98	761.5	57	13.9	51	w.	12	5.4		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.24	666.5	29.84	757.9	45	7.2	76	w.	2	0.9		4 k	0	w.		0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.89	759.2	30.13	765.3	60.0	15.6	65	s.	2	0.9		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory																			W. M. Mattingly.
Sitka, Alaska	29.88	758.9	29.94	760.5	44.5	6.9	80	s.	9	4.0			10 n		s.	0.21	5.3	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.60	751.8	30.06	763.5	51.5	10.8	80	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.84	757.9	29.88	758.9	52	11.1	86	nw.	13	5.8			9 s		w.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.88	708.1	29.93	760.2	52	11.1	74	s.	7	3.1		7 ck	3 s			0.05	1.3	cloudy	John F. Hemenway.
Springfield, Illinois	29.40	746.7	30.07	763.8	46	7.8	60	w.	2	0.9		1 c	0	nw.		0	0	clear	T. B. Jennings.
Springfield, Missouri	28.64	727.4	30.06	763.5	51	10.6	66	se.	5	2.2		0	0			0	0	clear	J. H. Bryce.
Starkville, Miss	29.63	752.6	30.10	764.5	49	9.4	71	w.	5	2.2		0	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota	27.94	709.7	29.78	756.4	51	10.6	66	ne.	3	1.3			10 ks		s.	0	0	thund'r st'm	A. Schneider.
Stockton, Fort, Texas	26.91	683.5	29.92	760.0	58	14.4	77	s.	6	2.7		2 c	0	sw.		0	0	clear	A. J. Warren.
Thatcher's Island, Mass	29.64	752.8	29.69	754.1	52.0	11.1	93	ne.	3	1.3			10s;fg		ne.	1.08	27.4	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.12	688.8	29.79	756.7	57	13.9	40	s.			1	1 cs	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.20	741.7	29.88	758.9	44	6.7	76	nw.	9	4.0		7 ck	0	n.		0.00	1.5	fair	A. Buell.
Tucson, Arizona	27.45	697.2	29.79	756.7	59	15.0	46	se.	4	1.8		1 c	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.55	750.6	29.57	751.1	38	3.3	89	nw.	2	0.9			10 s			0.42	10.7	cloudy	Samuel Applegate.
Verde, Fort, Arizona					57	13.9	39	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	50.5	10.3	72	se.	4	1.8		0	0			0	0	clear	James Kenealy.
Visalia, California	29.52	749.8	29.89	759.2	57.4	14.1	73	nw.	3	1.3		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.35	618.5	29.83	757.7	45.8	7.7	75	s.	17	7.6		0	8 k			inap.	inap.	cloudy	T. M. Ambler.
Washington, D. C	29.64	752.8	29.74	755.4	48.8	9.3	71	w.	10	4.5			10 s		w.	inap.	inap.	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.84	656.3	29.69	754.1	52.5	11.4	69	w.	8	3.6		8 c	0	w.		0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.10	739.1	29.70	754.4	47	8.3	86	w.	0	2 7			10 ks		w.	0.18	4.6	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.83	757.7	29.88	758.9	52	11.1	41	nw.	7	3.1			10 s		sw.	inap.	inap.	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.57	649.5	29.92	760.0	47	8.3	58	ne.	10	4.5		0	3 s		sw.	0	0	clear	J. Grover.
Yankton, Dakota	28.62	726.9	29.90	759.4	55	12.8	65	s.	12	5.4		10 ck	0			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.60	751.8	29.75	755.6	64.0	17.8	82	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			55.0	12.8	83	calm	0	0		2 ck	3 s	ne.		0.01	0.3	fair	Joaquin Gomez.
Kingston, Jamaica, W. I			30.04	763.0			65	calm	0	0		0	0			0	0	clear	Robert Johnston.
Paramaribo, S. A	30.08	764.0	30.08	764.0	79.5	26.4	84	se.			2	4 ck	5 k	e.	e.	0.120	3.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.43	747.5	29.99	761.7	78	25.6	89	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A					80	26.7	89	ne.			1	ck	2 ks	se.	ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I																			Aug. Wallon.
Santiago de Cuba, W. I	30.01	762.2	30.04	763.0	81	27.2	74	calm	0	0		0	0			0	0		R. Mason.
York Factory, B. A	29.92	760.0	29.99	761.7	31.5	— 0.3	95	w.	4	1.8		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, Corfu, Ionian Islands	30.12	765.0	67	19.4	55	wnw.			2		0							blue sky.
H. M. S. Dido, Barbadoes, W.I.	30.06	763.5	82	27.8		e.			3		1	e.						blue sky.
H. M. S. Iris, Port Said, Egypt	29.89	759.2	77	25.0	86	ese			4		2	ese.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.15	765.8	70	21.1	82	ssw.			1		1							misty.
H. M. S. Opal, Madeira Islands	30.15	765.8	75	23.9	90	sse.			1		0							blue sky.
H. M. S. Rocket, N. 41° 30′, W. 23° 30′	30.06	763.5	59	15.0	94	e.			2		8					2		showery
H. M. S. Tyne, N. 21° 10′, W. 67° 35′	30.09	764.3	82	27.8	83	se.			4		3	sse.				2	se.	d. clouds.
H. M. S. Tenedos, Halifax, N. S.	30.00	762 0	49	9.4	93	ese.			2									foggy.
U. S. Navy Yard, Pensacola, Fla.	30.01	762.2	55	12.8	62	nw.	3	1.3			2		ne.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H*	29.64	752.8	50	10.0	100	ne.	13	5.8			10		ne.	2.7	69.			foggy.
U. S. S. Alliance, Norfolk, Va	29.78	756.4	56	13.3	81	w.			2		10			0	0			cloudy.
U. S. S. Colorado, New York, N Y	29.75	755.6	57	13.9	81	se.	5	2.2			10		sse.	0	0			cloudy.
U. S. S. Franklin, Norfolk, Va.	29.76	755.9	55	12.8	81	wsw.	8	3.6			2			0	0			fair.
U. S. S. Jamestown, Newport, R. I*†	29.71	754.6	57	13.9	94	sse.			1		5		sse.					fair.
U. S. S. Kearsarge, New York, N.Y	29.63	752.6	58	14.4	88	w.			2		10							cloudy.
U. S. S. Lancaster, Kronstadt, Russia	29.73	755.1	56	13.3	69	ene.			4		2		calm			sm'h		fair.
U. S. S. Michigan, Erie, Pa	29.74	755.4	43	6.1	92	n.			4		10		n.					cloudy.
U. S. S. Minnesota, New York, N. Y.	29.63	752.6	60	15.6	82	ssw.			2		10		sw.					hazy.
U. S. S. New Hampshire, Newport, R. I.	29.61	762.1	57	13.9	94	se.			1		10		se.			sm'h		cloudy.
U. S. S. Portsmouth, Newport, R.I.	29.69	754.1	54	12.2	100	se.			2		5							misty.
U. S. S. Powhatan, N. 18° 33′, W. 83° 05′	30.00	762.0	80	26.7	96	n.			2		8					sm'h		cloudy.
U. S. S. Quinnebaug, Sierra Leone, Africa	29.93	760.2	84	28.9	82	nnw.			1		8		ssw.			sm'h		fair.
U. S. S. Saratoga, New York, N. Y.	29.60	751.8	57	13.9	94	w.			3		8		w.	0	0	sm'h	w.	cloudy.
U. S. S. St. Louis, League Island, Pa.	29.64	752.8	57	13.9	75	w.	9.3	4.2			5		w.	0.05	1.3			fair.
U. S. S. Swatara, N. 23° 31′, W. 83° 48′†	29.99	761.7	75	23.9	68	nne.			2		5		ne.	0	0	sm'h		fair.
U. S. S. Tennessee, New York, N. Y.	29.65	753.1	58	14.4	82	sw.	8	3.6			10			0	0	sm'h		cloudy.
U. S. S. Vandalia, New York, N. Y.	29.61	752.1	61	16.1	88	s.			1		8		calm					fair.
U. S. S. Wabash, Boston, Mass.	29.66	753.4	60	15.6	94	ne.	1	0.4			10			0.26	6.6			cloudy.
U. S. S. Yantic, New York, N. Y.	29.62	752.3	58	14.4	88	se.			1		10							overcast.
Commewyne, N. 42° 54′, W. 29° 07′	30.13	765.3	64	17.8	73	ne.			4		10							d. clouds.
S. S. British Crown, N. 40° 48′, W. 54° 26′ †	30.25	768.3	75	23.9		sse.			4		9		sse.	6 h'r	6 h'r	sli't	sse.	raining.
S. S. Illinois, N. 47° 43′, W. 30° 38′ *	30.14	765.5	56	13.3		n.			2		10		n.			sm'h	n.	overcast.
S. S. Lord Gough, N. 47° 18′, W. 50° 38′	30.07	763.8	38	3.3		nw.			4		10			sh'rs	sh'rs	sm'h		foggy.
S. S. Ohio, N. 39° 01′, W. 71° 41′ †	29.66	753.4	56	13.3	94	se.			4		4		w.	0	0	mod.	se.	clear.
S. S Pennsylvania, N 50° 34′, W. 15° 30′ †	30.22	767.6	60	15.6		calm			0		1		sw.			sm'h	nw.	clear.
S. S. Circassian, N. 46° 30′ W. 53° 42′	30.19	766.8	38	3.3	100	ese.			2		10			0	0	3	s.	foggy.
S. S. Grecian, N. 55° 12′, W. 12° 49′	30.02	762.5	56	13.3	87	sw.			4		10			1 h'r	1 h'r	sm'h		hazy.
S. S. Nova Scotian, N. 42° 38′, W. 50° 50′	30.30	769.6	49	9.4		ssw.			3		5		sw.			mod.	s.	hazy.
S. S. Manitoban, Montreal, Canada	29.83	757.7	46	7.8	84	ne.			7		6		ene.	10 h'r	10 h'r			cloudy.
S. S. Scandinavian N. 55° 09′, W. 20° 36′			50	10.0		sw.			3		10					light	sw.	showery.
S. S. Alene, N. 38° 51′, W. 73° 54′†	29.62	752.3	56	13.3		wsw.			3		8		sw.	0	0	long	se.	cloudy.
S. S. Ailsa, Kingston, Jamaica, W. I.			80	26.7														
S. S. Bolivia, N. 52° 39′, W. 24° 24′ *†	30.17	766.3	56	13.3		wsw.			3		mist		wsw.	3 h'r	3 h'r	sm'h	w.	misty.
S. S. Dorian, N. 41° 09′, W. 57° 02′	30.23	767.8	67	19.4		sse.			2		4			0	0	sli't	s.	fine.
S. S. Furnesia, New York, N.Y	29.62	752.3	62.5	16.9	95	sse.			2		9		sse.	0	0			cloudy.
S. S. Llandaff City, New York, N. Y†	29.65	753.1	55	12.8		s.			4		8		sw.					cloudy.
S. S. Marathon, Venice, Italy	30.15	765.8	68	20.0		ene.			3		2		ene.	0	0	sm'h	ene.	clear.
S. S. Pavonia, N. 49° 02′, W. 31° 07′	30.12	765.0	57	13.9	94	w.			5		10		w.	18 h'r	18h'r	mod.	wnw.	cloudy.
S. S. Scythia, N. 49° 19′, W. 27° 18′	30.11	764.8	54	12.2	93	n.			1		10			0	0	mod.		foggy.
S. S. Colina; N. 52° 14′, W. 32° 23′ †	29.94	760.5				sw.			3		6		wsw.	0	0	mod.	w.	cloudy.
S. S. Canada, N. 46° 56′, W. 33° 20′	30.00	762.0	53.6	12.0		ene.			2	ck	0	ene.		0	0	sm'h	ne.	hazy.
S. S. France, N. 40° 27′, W. 74° 02′ †	29.52	749.7	48.2	9		sw.			4		10		nw.	rain	rain	sm'h	se.	
S. S. Ville de Marseilles, St. Thomas, W. I			77	25.0		sse.			2		3		se.	shr's	shr's	sm'h		fair.
S. S. Abyssinia, N. 48° 14′, W. 31° 00′	30.18	766.6	56	13.3	100	nw.			3		10		nw.	2 h'r	2 h'r	sm'h		raining.
S. S. Wisconsin, N. 40° 28′ W. 70° 20′	29.507	749.3†	53	11.7		sse.			2		4		sw.	2 h'r	2 h'r	mod.	ese.	drizzling.
S. S. Bohemia, N. 49° 35′, E 0° 22′						nw.			1		1		nw.	0	0			fair.
S. S. Gellert, Hamburg, Germany			66	18.9	89	sw.			3		5?		wsw.	0	0			cloudy.?
S. S. Rugia, N. 51° 20′, E. 1° 53′	30.10	764.5	67	19.4		sw.			4		0			0	0	sm'h		clear.
S. S. Silesia, Puerto Cabello, Venezuela	30.02	762.5	79	26.1		se.			2		4		nne.	0	0			fair.
S. S. Westphalia, N. 45° 19′, W. 42° 05′	30.39	771.9	70	21.1	90	w.			2–3					0	0	sm'h		fair.
S. S. Wieland, N. 40° 28′, W. 72° 26′	29.70	754.4				ssw.			2		4		w.	0	0	sm'h	sw.	dense fog.
S. S. City of Paris, off Mine Head, Ireland						sw.			2		0			0	0	sm'h		clear.
S. S. Archimedes, N. 8° 52′, W 46° 50′	29.91	759.7				ne.			5		2		nne.	0	0	mod.	nne.	clear.
S. S. Colorado, N. 26° 43′, W. 80° 02′ †	30.02	762.5	60	15.6		w.			2		1		w.	0	0	small	w.	clear.
S. S. San Marcos, Galveston, Texas	29.91	759.7	70	21.1		ese.			4		0							clear.
S. S. Chalmette, New York, N. Y.	29.72	754.9	58	14.4		s.			3		5			0	0			fair.
S. S. Lone Star, N. 26° 40′, W. 86° 08′†	30.13	765.3	72	22.2		nw.			2		5		nw.	0	0	mod.	nw.	fair.
S. S. Alleghany, Baltimore, Md.			58	14.4		nw.			5		0			0	0			clear.
S. S. Archimede, N. 36° 24′, W. 14° 12′ †	30.26	768.6	69	20.6	70	e.			1		1		e.	0	0	sm'h		clear.
S. S. City of Washington, N. 22° 50′, W. 85° 00′			80	26.7		ene.			4		8		ene.	0	0	sm'h		cloudy.
S. S. Denmark, London, Eng†	30.15	765.8	72	22.2		w.			2		1			0	0			clear.
S. S. Egypt, Mersey river, Eng *†	30.20	767.1	50	10.0		sw.			3		5		sw.	0	0			fair.
S. S. England, off Waterford, Ireland	30.18	766.6	56	13.3		w.			4		0			0	0	sm'h		clear.
S. S. Greece, N. 49° 07′, W. 11° 00′*	30.16	766.1	59	15.0	88	ene.			1		10		n.	0	0	mod.	nw.	overcast.
S. S. Helvetia, N. 40° 40′, W. 53° 46′	30.21	767.3	72	22.2	95	s.			4		10		s.	1 h'r	1 h'r	sm'h	s.	light rain.
S. S. Holland, N. 40° 55′, W. 53° 49′	30.12	765.0	72	22.2		sse.			3		8		s.	1 h'r	1 h'r	sm'h	s.	cloudy.
S. S. The Queen, N. 41° 25′, W. 49° 04′	30.26	768.6	70	21.1	70	ssw.			4		1		wsw.	0	0	mod.	sw.	clear.
S. S. America, N. 41° 44′, W. 58° 46′*	30.15	765.8	69.0	20.6	97	sw.			3		9		sw.	5 h'r	5 h'r	long	s.	foggy.
S. S. Brannschweig, off Beachy Head, Eng	30.21	767.3	62.0	16.7	77	wsw.			1		1		wsw.	0	0	sm'h	wnw.	clear.
S. S. Donau, N. 41° 16′, W. 49° 45′	30.37	771.4				ssw.			4		2		ssw.	6 h'r	6 h'r	mod.	ssw.	clear.
S. S. Elbe, N. 49° 05′, W. 19° 44′	30.24	768.1	55	12.8	93	sw.			3		9		s.	2 h'r	2 h'r	sm'h	var.	cloudy.
S. S. Hohenstaufen, N. 49° 45′ W. 12° 57′	30.18	766.6				wsw.			2–3		10		wsw.	0	0	sm'h	nw.	cloudy.
S. S. Oder, N. 47° 31′, W. 60° 33	30.06	763.5	69.8	21.0		sse.			4		9		sse	1 h'r	1 h'r	mod.	s.	cloudy.
S. S. Strassburg, N. 39° 17′, W. 64° 00′	29.96	761.0	74.0	23.3	95	s.			6		10		s.	6 h'r	6 h'r	4	s.	cloudy.
S. S. Werra, N. 42° 14′ W. 53° 06′	30 21	767.3	64	17.8		sw.			5		8		sw.	2 h'r	2 h'r	mod.	sw.	hazy.
S. S. Orinoco, Bermuda Islands*†	30.10	764.5	78	25.6		s.			5		10		s.	0	0			cloudy.
S. S. Colon, Aspinwall, Panama †	29.93	760.2	78	25.6		nnw.			3		10			4 h'r	4 h'r	sm'h	nw.	overcast
S. S. City of Augusta, New York, N. Y †	29.61	752.1				sse.			4		10		ne.	light	light			rainy.
S. S. Belgenland, N. 47° 30′, W. 24° 15′†	30.37	771.4	58	14.4	88	s.			4		3		sw.	0	0	long	n.	clear.
S. S. Nederland, N. 40° 24′, W. 54° 29′*†	30.21	767.3	70	21.1		s.			4		10		s.	0	0	cross	s.	cloudy.
S. S. Rhynland, Jersey City, N. J.	29.64	752.8	59	15.0	94	wsw.			4		8		wsw.	0	0			cloudy.
S. S. Pennland, N. 40° 33′, W. 63° 35′	30.08	764.0	52	11.1	93	s.			3		3		s.	0	0	mod.	sw.	hazy.
S. S. Waesland, N. 50° 02′, W. 4° 18′	30.24	768.1	62	16.7		wsw.			3		4		wsw.	0	0	light	wsw.	fair.
S. S. P. Caland, N. 48° 18′, W. 21° 00′	30.25	768.3	56.5	13.6	76	ssw.			2		10		sw.			2	nw.	overcast.
S. S. W. A Scholten, N. 44° 12′, W. 38° 15′	30.34	770.5	60.0	15.6	88	nnw.			3		4		nw.	0	0	sm'h	e.	fair.
S. S. Zaandam. N. 41° 30′, W. 58° 53′	30.14	765.5	70.5	21.4	92	sw.			2		9 ck		sw.	0	0			dense fog.
S. S. Claudius, N. 40° 00′, W. 57° 10′†	30.27	768 8	70.0	21.1	87	ese.			1		10			0	0		se.;s	cloudy.
S. S. Valencia, La Guayra, Venezuela †	30.12	765.0	83	28.3	79	ne.			1		2		ene.	0	0	sm'h	ne.	clear.
S. S. State of Florida, New York, N. Y.			60	15.6		s.			3		8		s.	0	0			cloudy.
S. S. State of Georgia, N. 40° 23′, W. 69° 22′†	29.72	754.9	54	12.2		calm			0		10		sw.	0	0	sharp	sse.	dense fog.
S. S. State of Nebraska, N 50° 23′, W. 29° 35′ †*	30.07	763.8	53	11.7		w.			3		8		nw.	0	0	sm'h		cloudy.
S. S. State of Nevada, Glasgow, Scotland †	29.94	760.5	52	11.1		wsw.			6		5		wsw.	0	0			fair.
S. S. State of Alabama, N. 55° 20′, W. 8° 15′*	29.97	761.2	52	11.1		w.			4		8		w.	light	light	mod.	w.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Marengo, N. 42° 15′, W. 69° 05′†	29.74	755.4	51	10.6	.....	sw.	.....	.....	5	.....	10	.....	.....	1 h'r	1 h'r	long	ssw.	foggy.
S. S. Dominion, N. 45° 55′ W. 52° 40′*†.	30.14	765.5	42	5.6	.....	ene.	.....	.....	3	.....	10	.....	ne.	.....	.....	light	sw.	overcast.
S. S. Toronto, N. 51° 26′, W. 39° 14′	29.96	761.0	54	12.2	.....	wsw.	.....	.....	3	.....	9	.....	wsw.	o	o	mod.	wsw.	hazy.
S. S. Lake Huron, N. 52° 51′ W. 34° 43′	29.92	760.0	56	13.3	.....	ssw.	.....	.....	2	.....	2	.....	w.	o	o	sm'h	w.	clear.
S. S. Lake Manitoba, N. 50° 58′, W. 37° 00′	30.19	766.8	55	12.8	.....	sw.	.....	.....	5	.....	8	.....	w.	4 h'r	4 h'r	mod	wsw.	showery.
S. S. Daniel Steinmann, English Channel†	30.24	768.1	68	20.0	.....	wsw.	.....	.....	3	.....	0	.....	.....	o	o	sm'h	.....	hazy
S. S. Plantyn, N. 47° 45′, W. 22° 05′	30.17	766.3	.....	.....	.....	.....	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. S. Norman, N. 39° 50′, W. 74° 28′	29.59	751.6	.....	.....	.....	sw.	.....	.....	1	.....	10	.....	sw.	o	o	long	sse.	cloudy.
S. S. Saxon, Boston, Mass†	29.67	753.6	.....	.....	.....	e.	.....	.....	4	.....	10	.....	e.	o	o	.....	.....	foggy.
S. S. Adriatic, N. 41° 06′, W. 62° 33′ *†	30.12	765.0	63	17.2	100	sse.	.....	.....	4	.....	10	.....	s.	o	o	mod.	sse.	misty.
S. S. Baltic, N. 43° 03′, W. 48° 25′*	30.31	769.9	55	12.8	93	s.	.....	.....	5	.....	8	.....	s.	o	o	sli't	ssw.	cloudy.
S. S. Celtic, N. 43° 22′ W. 48° 06′†	30.33	770.4	60	15.6	.....	sw.	.....	.....	2	.....	fg.	.....	.....	o	o	sm'h	.....	overcast.
S. S. Assyrian Monarch, N. 40° —′, W. 71° —′	29.55	750.6	48	8.9	.....	sw.	.....	.....	1	.....	0	.....	wsw.	.....	.....	.....	s.	raining.
S. S. Antonio Lopez, Santander, Spain	30.29	769.4	59.5	15.3	88	wnw.	.....	.....	3	.....	10	.....	.....	o	o	.....	.....	cloudy.
Schr. Abbie H. Gheen, Mayport, Fla†	30.05	763.3	50	10.0	.....	w.	.....	.....	5	.....	.....	.....	.....	o	o	.....	.....	clear.
Bg. Abbie Clifford, N. 30° 44′ W. 69° 16′†	29.98	761.5	74	23.3	.....	s.	.....	.....	4	.....	10	.....	nw.	o	o	r'gh	sw.	threatening
Bk. Alpha, N. 48° 40′, W. 30° 30′*†	30.20	767.1	57	13.9	.....	nw.	.....	.....	3	.....	8	.....	ne.	2 h'r	2 h'r	sm'h	.....	cloudy.
Bg. Alcira, Maracaybo, Venezuela	29.92	760.0	86	30.0	.....	e.	.....	.....	1	.....	7	.....	sw.	o	o	.....	.....	fair.
Bk. Adelaide, N. 10° 09′, W. 34° 39′*†	30.09	764.3	81	27.2	.....	ene.	.....	.....	5	.....	1	.....	e.	2 h'r	2 h'r	mod.	e.	clear.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.16	766.1	84	28.9	.....	calm	.....	.....	0	.....	10	.....	ese.	3 h'r	3 h'r	.....	.....	raining.
Schr. Author Burton, St. Simon's Island, Ga*†	29.84	757.9	.....	.....	.....	nnw.	.....	.....	2	.....	1	.....	nnw.	o	o	.....	.....	fine.
Bk. Aureola, N. 22° 19′, W. 60° 45′†	30.05	763.3	85	29.4	.....	ene.	.....	.....	5	.....	2	.....	e.	o	o	mod.	ene.	clear.
Bk. Achille F, N. 3° —′, W. 26° 30′†	30.01	762.2	76	24.4	98	sse.	.....	.....	3	.....	9	.....	s.	2 h'r	2 h'r	long	s.	raining.
Bg. Arda, Holmes' Hole, Mass	.....	.....	.....	.....	.....	s.	.....	.....	2	.....	3	.....	ssw.	3 h'r	3 h'r	sm'h	.....	clear.
Bg. Annie R. Storer, N. 36° 45′ W. 73° 00′†	30.00	762.0	.....	.....	.....	ssw.	.....	.....	3	.....	5	.....	wnw.	2 h'r	2 h'r	r'gh	w.	fair.
Bgt. Achsah, Kingstown, St. Vincent, W. I†	29.99	761.7	82	27.8	.....	ne.	.....	.....	2	.....	2	.....	ene.	o	o	.....	.....	clear.
S. S. Burswell, N. 35° 12′, E. 17° 25′ *†	30.11	764.8	72	22.2	.....	nne.	.....	.....	3	.....	3	.....	nne.	o	o	light	ne.	fine.
Bg. Belle of the Bay, N. 23° 53′, W. 08° 00′†	30.08	764.0	.....	.....	.....	nnw.	.....	.....	2	.....	9	.....	wsw.	o	o	sm'h	wsw.	threatening
Bk. Champion, N. 26° 42′, W. 68° 40′	.....	.....	80	26.7	91	s.	.....	.....	3	.....	2	.....	ssw.	o	o	sm'h	.....	clear
Schr. C. R. Flint, Sandy Hook, N. J †	29.60	751.8	58	14.4	.....	sw.	.....	.....	1	.....	8	.....	ssw.	o	o	.....	.....	cloudy.
Bk. Childwall, N. 32° 56′, W. 36° 50′	.....	.....	66	18.9	.....	nne.	.....	.....	4	.....	6	.....	nne.	o	o	mod.	ne.	fine.
Schr. Clotilde, N. 25° 45′, W. 78° 05′*†	29.98	761.5	75	23.9	.....	wnw.	.....	.....	3	.....	2	.....	nw.	o	o	.....	.....	clear.
S. Criterion, N. 58° 28′, W. 10° 20′ *†	29.70	754.4	.....	.....	.....	w.	.....	.....	0	.....	10	.....	wsw.	sh'rs	sh'rs	mod.	w.	hazy.
S. David Stewart, N. 31° 13′, W. 50° 26′†	30.29	769.4	.....	.....	.....	e.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. S. D. J. Foley, N. 26° 30′ W. 73° 55′*†	30.00	762.0	76	24.4	95	s.	.....	.....	1	.....	8	.....	s	5 h'r	5 h'r	sm'h	.....	cloudy
Btk. David A. Preston, N. 20° 20′, W. 72° 40′	.....	.....	90	32.2	.....	s.	.....	.....	2	.....	2	.....	s.	o	o	sm'h	.....	
Schr. Edith R. Seward, N. 17° 16′ W. 83° 14′†	30.11	764.8	89	31.7	.....	calm	.....	.....	0	.....	2	.....	ene.	o	o	mod.	ene.	clear.
S. E. J. Spicer, Liverpool, Eng	30.07	763.8	60	15.6	.....	nw.	.....	.....	3	.....	10	.....	nw.	o	o	.....	.....	overcast.
Bk. E. D. Bigelow, N. 43° 57′, W. 45° 10′*†	30.20	767.1	68.0	20.0	.....	sw.	.....	.....	4	.....	3	.....	wsw.	o	o	sm'h	.....	fair.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	29.85	758.2	59	15.0	70	w.	.....	.....	3	.....	10	.....	sw.	o	o	.....	.....	cloudy.
H. P. M. S. Rio Lima, Porto Praya, Cape Verd Ids	.....	.....	81.0	27.2	74	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	3	.....	blue sky.
Schr. F. E. McDonald, N. 27° 30′ W. 79° 30′ †	30.01	762.2	.....	.....	.....	wnw.	.....	.....	5	.....	.....	.....	.....	o	o	.....	.....	clear.
Bk. George Davis, N. 41° 24′, W. 43° 29′	.....	.....	.....	.....	.....	wsw.	.....	.....	1	.....	.....	.....	calm	o	o	.....	ene.	
Bk. Gronsvaer, N. 22° 34′, W. 59° 50′†	30.13	765.3	80.0	26.7	.....	e.	.....	.....	4	.....	3	.....	e.	o	o	sm'h	.....	clear.
Bx. Galeon, N. 20° 49′, W. 90° 33′†	30.10	764.5	76	24.4	.....	e.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	n.	blue sky.
S. Hedwig, N. 39° 56′, W. 23° 08′	30.07	763.7	60.6	15.9	94	ene.	.....	.....	3	.....	5	.....	var.	6 h'r	6 h'r	3	nw.	
Bk. Hattie G. McFarland, Port Royal, S. C*†	29.85	758.2	58	14.4	.....	w.	.....	.....	5	.....	1	.....	w.	o	o	.....	.....	
Bk. John H. Pearson, N. 26° 23′, W. 21° 46′	.....	.....	.....	.....	.....	n.	.....	.....	1	.....	.....	.....	sse.	o	o	long	n.	clear.
Schr. Isabel Alberto, Jersey City, N. J †	29.68	753.9	.....	.....	.....	s.	.....	.....	2	.....	8	.....	w.	sh'rs	shr's	.....	.....	cloudy.
Bk. Cato, N. 56° 17′, W. 13° 16′*†	29.94	760.5	.....	.....	.....	wsw.	.....	.....	4	.....	5	.....	wsw.	o	o	mod.	w.	foggy.
Bx. Johanne, N. 41° 33′, E. 3° 13′*†	30.10	764.5	69	20.6	.....	nne.	.....	.....	2	.....	2	.....	se.	2 h'r	2 h'r	sm'h	.....	fine.
Schr. John L. Thomas, Near Cape Henry, Va* †	29.80	756.9	.....	.....	.....	wsw.	.....	.....	3	.....	9	.....	w.	o	o	light	se.	cloudy.
Bg. John Wesley, N. 31° 48′, W. 77° 20′ *†	29.91	759.7	.....	.....	.....	w.	.....	.....	5	.....	8	.....	w.	o	o	r'gh	wnw.	cloudy.
Schr. Jennie N. Huddell, Chesapeake Bay†	29.84	757.9	63	17.2	57	nw.	.....	.....	1	.....	5	.....	nw.	o	o	.....	.....	fair.
Bkt. Josephine, N. 28° 43′, W. 66° 57′ †	30.07	763.8	78	25.6	78	ssw.	.....	.....	4	.....	2	.....	ssw.	o	o	mod.	se.	hazy.
Schr. Leonessa, N. 37° 34′, W. 76° 16′†	29.72	754.9	.....	.....	.....	nw.	.....	.....	1	.....	8	.....	sw.	o	o	.....	.....	cloudy.
Bg. L. & W. Armstrong, N. 33° 30′, W. 71° 00′ *†	29.92	760.0	.....	.....	.....	sw.	.....	.....	5	.....	2	.....	w.	2 h'r	2 h'r	mod	ssw.	
Light-house Tender Laurel, Pensacola Bay, Fla†	30.11	764.8	63	17.2	.....	n.	.....	.....	1	.....	1	.....	n.	o	o	.....	.....	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.94	760.5	78	25.6	.....	ne.	.....	.....	1	.....	8	.....	n.	o	o	.....	.....	fair.
Bg. Milo, N. 48° 19′, W. 15° 50′†	30.25	768.3	.....	.....	.....	ssw.	.....	.....	1	.....	.....	.....	wnw.	.....	.....	.....	nw.	fine.
S. S. Madrid, N. 37° 47′, E. 0° 38′†	30.22	767.0	66	18.9	.....	var.	.....	.....	2	.....	6	.....	nw.	.....	.....	sm'h	.....	misty.
Schr. Minnie A. Bonsall, New York, N. Y	29.61	752.1	63	17.2	.....	nnw.	.....	.....	1	.....	10	.....	.....	o	o	.....	.....	cloudy.
Bk. Matilda C. Smith, N. 40° 05′, W. 58° 45′ †	30.19	766.8	.....	.....	.....	sse.	.....	.....	3	.....	5	.....	s.	o	o	sm'h	s.	fine.
Bgt. Myrtle, N. 30° 20′ W. 59° 09′	.....	.....	.....	.....	.....	sse.	.....	.....	2	.....	1	.....	sse.	o	o	sm'h	.....	clear.
Bk. Mathais, N. 40° 35′, W. 35° 55′ *†	30.42	774.7	62	16.7	.....	ene.	.....	.....	3–4	.....	6	.....	ene.	o	o	cross	ene.	fair.
S. S. Mendoza, N. 23° 38′, W. 61° 24′	.....	.....	.....	.....	.....	se.	.....	.....	2	.....	.....	.....	se.	o	o	sm'h	se.	clear.
Schr. Maud Briggs, N. 16° 42′, W. 58° 05′*†	30.18	766.6	.....	.....	.....	e.	.....	.....	5	.....	3	.....	e.	o	o	sm'h	e.	clear.
Bk. Ottawa, N. 38° 38′, W. 37° 10′*	30.19	766.8	61	16.1	.....	nne.	.....	.....	4	.....	7	.....	ne.	o	o	rg'h	ne.	fair.
S. S. Raleigh, Perth Amboy, N. J†	29.74	755.4	61	16.1	.....	sw.	.....	.....	1	.....	5	.....	sw.	o	o	.....	.....	clearing.
Bk. Rebus, N. 53° 14′, E. 4° 04′	30.03	762.7	52	11.1	.....	wsw.	.....	.....	1	.....	2	.....	wsw.	o	o	sm'h	.....	hazy.
Bk. Rosalie, St. John, Antigua*†	30.02	762.5	.....	.....	.....	e.	.....	.....	3	.....	.....	.....	e.	½h'r	½h'r	.....	.....	clear.
Bk. Rosino, New York, N. Y	.....	.....	67.2	19.6	.....	sw.	.....	.....	2	.....	10	.....	s.	o	o	.....	.....	threatening.
Bk. Scud, N. 31° 07′, W. 60° 10′*†	30.19	766.8	79	20.1	.....	sse.	.....	.....	5	.....	3	.....	sse.	o	o	mod.	sse.	hazy.
Bk. Southern Belle, N. 35° 45′, W. 11° —†	30.18	766.6	78	25.6	.....	ene.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. St. Francis, N. 43° 41′, W. 40° 50′	.....	.....	68	20.0	69	sw.	.....	.....	3	.....	2	.....	nw.	o	o	mod.	se.	fair.
S. S. Strathleven, N. 37° 12′, W. 00° 06′	30.14	765.5	72.0	22.2	95	s.	.....	.....	4	.....	8	.....	ssw.	2 h'r	2 h'r	3	s.	d. clouds.
Bgt. Sunlight, N. 16° 00′, W. 00° 00′	.....	.....	.....	.....	.....	e.	.....	.....	5	.....	7	.....	e.	1 h'r	1 h'r	mod.	ene.	fair.
Bg. Tenerife, N. 26° 50′ W. 74° 32′*	29.87	758.7	.....	.....	.....	ssw.	.....	.....	2	.....	2	.....	.....	.....	.....	mod.	var.	
Bk. Tuck Sing, off Turk's Island, W. I*†	29.98	761.5	.....	.....	.....	sse.	.....	.....	3	.....	2	.....	se.	o	o	long	ese.	fair.
Bk. Usko, N. 42° 00′, W. 29° 50′*	30.13	765.3	59	15.0	.....	nne.	.....	.....	0	.....	7	.....	nne.	1 h'r	1 h'r	cross	ene.	fair.
Schr. Viola Reppard, N. 40° 45′, W. 70° 09′†	29.75	755.0	59	15.0	.....	calm	.....	.....	0	.....	0	.....	nw.	8 h'r	8 h'r	h'vy	sse.	fair.
Bkt. Wandering Jew, N. 35° 00′, W. 71° 28′†	29.82	757.4	68	20.0	.....	w.	.....	.....	0	.....	0	.....	sw.	8 h'r	8 h'r	large	sw.	threatening.
Bk. Winfred, N. 32° 51′, W. 71° 52′*†	29.90	759.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	sw.	o	o	r'gh	wsw.	d. clouds.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.17	766.3	55.5	13.1	97	w.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
H. M. S. Boadicea, Cape Town, Cape Colony	30.08	764.0	62	16.7	94	wnw.	.....	.....	2	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.99	761.7	57.2	14.0	97	sw.	.....	.....	3	.....	9	.....	.....	.....	.....	.....	.....	d. clouds
H. M. S. Thetis, S. 12° 53′, W. 23° 55′	30.12	765.0	77	25.0	77	ene.	.....	.....	3	.....	3	.....	.....	.....	.....	2	sse.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.97	761.2	58	14.4	94	wsw.	5	2 2	.....	.....	10	.....	wsw.	0.01	0.3	sm'h	.....	cloudy.
U. S. S Galena, Montevideo, Uruguay*.	29.97	761.2	58	14.4	100	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
May Hulse, S. 40° 32′, W. 36° 47′	30.16	766.1	53.2	11.8	67	wnw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Hevelius, Montevideo, Uruguay†	30.02	762.5	62	16.7	.....	ssw.	.....	.....	3	.....	fg.	.....	.....	12 h'r	12 h'r	.....	.....	foggy.
Bk. Horace Scudder S. 7° 50′, E. 4° 00′*†.	30.02	762.5	80	26.7	.....	ssw.	.....	.....	5	.....	5	.....	ssw.	o	o	mod.	sw.	fair.
S. Mt Washington, S. 8° 08′, W. 32° 53′ *†	30.12	765.0	83.3	28.5	83	e.	.....	.....	3	.....	10	.....	var.	o	o	long	sse.	cloudy.
S. Minnie N. Gerow, S. 36° 07′ W. 11° 00′†	29.29	744.0	54	12.2	.....	ssw.	.....	.....	8	.....	7	.....	ssw.	o	o	h'vy	sw.	stormy.
S. Paramita, S. 9° 33′, W 32° 33′†	29.98	761.5	80	26.7	.....	ene.	.....	.....	3	.....	2	.....	ne.	1 h'r	1 h'r	small	sse.	clear.
S. Storm King, S. 57° 46′, W. 68° 00′ *†	29.20	741.7	.....	.....	.....	var.	.....	.....	9	.....	6	.....	se.	o	o	r'gh	nw.	fair.
S. Wm. McGilvery, S. 2° 36′, W. 31° 50′*†	30.00	762.0	83	28.3	83	se.	.....	.....	3	.....	9	.....	se.	o	o	gr'd	ssw.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.79	756.7	66	18.9	89	se.	.....	.....	1	.....	7	e.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Champion, N. 5° 00′, E. 109° 00′	29.76	755.9	84	28.9	100	se.	.....	.....	2	.....	4	.....	.....	.....	.....	1	se.	d. clouds.
H. M. S. Sappho, N. 13° 21′, W. 87° 47′	29.88	758.9	79	26.1	100	ne.	.....	.....	1	.....	5	ne.	.....	.....	.....	.....	.....	d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Flying Fish, N. 37° 09′, E. 126° 25′	29.81	757.2	58	14.4	94	calm			0		7							misty.
H. M. S. Magpie, N. 12° 18′, E. 119° 05′	29.85	758.2	83.5	28.6	75	sw.			1		2					3	sw.	d. clouds.
H. M. S. Swiftsure, Esquimalt, Vancouver Id	30.06	763.5	48	8.9	85	sw.			3		8							d. clouds.
H. M. S. Zephyr, N. 34° 41′ E. 135° 12′	29.92	760.0	70	21.1	75	calm			0		9							d. clouds.
H. P. M. S. Tamega, Victoria Bay, China	29.88	759.0	83.3	28.5	85	ene.			2		9							overcast.
U. S. Naval Hospital, Yokohama, Japan	30.03	762.7	59.5	15.3	79	wsw.			1		8		ne.	0	0			cloudy.
U. S. S. Adams, Point Retreat, Alaska†	29.93	760.2	44	6.7	92	n.			2		10					sm'h		cloudy.
U. S. S. Hartford, N. 16° 20′, W. 151° 50′ *	29.95	760.7	75	23.9	86	ene.			4		2		ene.	0	0	mod.	ne.	clear.
U. S. S. Monocacy, Roze Id, Corea	29.81	757.2	62	16.7	83	wnw.			1		10		calm					misty.
U. S. S. Palos, Hong Kong, China	29.75	755.6	80	26.7	87	e.			2		8		e.					cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.77	756.1	81	27.2	87	e.			3		5		e.	0	0			fair.
S. S. Mexico, N. 31° 22′, W. 116° 47†	29.86	758.4	60	15.6	82	calm			0		fg					long	wnw.	foggy.
S. S. Coptic, N. 36° 03′, E. 144° 42′			56.5	13.6	97	nnw.			6–8		10		n.	12 h'r	12 h'r	high	var.	gale.
S. S. Oceanic, N. 26° 48′, E. 122° 35′ *	29.86	758.4	73	22.8	85	nnw.			2		3		ne.			sm'h		clear.
S. S. Oregon, N. 44° 10′, W. 124° 15′†	30.29	769.4	52	11.1	60	nw.			1		8		nw.			sm'h		fair.
S. S. Willametta, Seattle, Wash. Ter *†	30.20	767.1	51	10.6	86	sw.			3		8		ssw.	0	0			misty.
S. S. Dakota, Seattle, Wash. Ter †	30.08	764.0	49	9.4	93	calm			0		8		w.	0	0	sm'h		cloudy.
S. S. City of Pekin, N. 47° 50′, E. 171° 50′			40	4.4	73	nw.			4		10		nw.	0	0	small	nw.	overcast.
S. E. B. Sutton, N. 37° 10′, W. 134° 00′†	30.34	770.6	61	16.1	100	wnw.			2		9		nw.	0	0	sm'h		cloudy.
S. S. City of Rio de Janeiro, N. 37° 13′, W. 152° 26′†	30.19	766.8	62	16.7	100	s.			2		10		sw.	light	light	light	w.	raining.
S. S. Colima, N. 35° 23′, W. 121° 18′ †	29.93	760.2	52	11.1	86	nw.			6		0			0	0	r'gh		clear.
S. S. Granada, Panama Bay, Panama †	29.92	760.0	78	25.6	91	nw.			1		2			0	0			clear.
S. S. San Blas, N. 19° 18′, W. 105° 25′			80	26.7		sse.			2		1		s.			long	ssw.	clear.
S. S. San José, N. 19° 58′, W. 103° 29′ †	29.90	759.4	80	26.7		ene.			3		8 s		nne.	0	0	long	sw.	hazy.
S. S. Gordon Castle, S. 1° 54′, E. 126° 40′*	29.84	757.9	82.0	27.8	87	s.			1–2		3		s.					clear.
S. Armenia, N. 36° 53′, W. 134° 20′*	30.26	768.6	64	17.8	83	nw.			3		4		s.	0	0	sm'h	ne.	fair
Bk. Bore, Macassar, Celebes Id*†	30.21	767.3	84	28.9		ese.			1									
S. Grecian, N. 21° 55′, E. 134° 46′†	29.86	758.4	82	27.8	91	nnw.			3		5		var.	1 h'r	1 h'r	mod.	n.	fair.
S. S. Malabar, Singapore, Malay Peninsula						se.			3		0			0	0	sm'h		clear.
S. S. Radnorshire, N. 8° 23′, E. 108° 52′ *†	29.79	756.7				sw.			3		10		sw.	5 h'r	5 h'r	high	s.	cloudy.
S. Titan, N. 36° 59′, W. 139° 19′ *†	30.45	773.4	65	18.3	94	sw.			1		9		sw.	0	0	sm'h	se.	cloudy.
Bk. Xenia, N. 27° 51′ E. 123° 46′			71	21.7		e.			2		3		w.	0	0	sm'h	e.	clear.
U. S. S. Ranger, N. 15° 42′, W. 97° 10′	29.90	759.4	82	27.8	71	nw.			2		8			0	0	sm'h		cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			58	14.4	94	wsw.			2		3	sw						d. clouds
H. M. S. Kingfisher, S. 22° 27′, W. 145° 25′	29.98	761.5	74	23.3		ene.			5–7		10					7	e.	showery.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.95	760.7	53	11.7		calm			0							sm'h		foggy.
H. M. S. Nelson, S. 29° 40′, E. 167° 00′	29.52	749.8	71	21.7	90	var.			3		7	ne.				8	var.	showery.
U. S. S. Iroquois, Valparaiso, Chili	30.07	763.8	56	13.3	81	calm			0		2					sm'h		clear.
U. S. S. Lackawanna, S. 32° 46′, W. 115° 06′*	29.66	753.4	63	17.2	83	s.			7		10		s.			rg'h	se.	cloudy.
U. S. S. Onward, Callao Peru†*	30.09	764.3	64	17.8	83	s.			2		10		s.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.90	759.4	64	17.8	89	se.			4		10		se.	0	0			misty.
U. S. S. Wachusetts, S. 20° 35′, W. 172° 20′	29.87	758.7	74	23.3	81	sse			3		8		se.			mod	sse.	cloudy.
S. S. Australia, S. 24° 02′, W. 175° 45′	29.97	761.2	75	23.9	90	s.			3		1		s.	0	0	sm'h		clear.
S. S. City of Sydney, Sydney, N. S. W *†	29.98	761.5	58	14.4	88	w.			2		2 ks		w.	0	0			clear.
S. S. Zealandia, S. 29° 57′ E. 178° 33′	29.70	754.4	69	20.6	90	nne.			3		10					mod.		cloudy.
S. David Crocket, S. 5° 59′, W. 111° 40′*	29.87	758.7	77	25.0	82	e.			3		3		e.	0	0	sm'h	se.	d. clouds.
H. M. S. Lark, S. 19° 45′, E. 156° 45′	29.96	761.0	73.3	22.9	81	s.			1		5					4	s.	d. clouds
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.69	754.1	88	31.1		ssw.			2		4	sw.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.69	754.1	90	32.2	73	wsw.			2		1							blue sky
H. M. S. London, Zanzibar, Zanzibar	30.03	762.7	76	24.4	91	sse.			2		2	sse.				1	sse.	d. clouds.
S. S. Tourmaline, Ras Madruka, Arabia	29.60	751.8	84	28.9	79	sw.			3		2	sw.				1	s.	d. clouds.
H. M. S. Woodlark, off Bushire, Persia	29.65	753.1	84	28.9	68	nw.			5–6		0					4	nw.	misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony *	29.95	760.7	61	16.1	94	nnw.			2		2		calm			sm'h		clear.
U. S. S. Juniata, Bombay, India	29.74	755.4	88	31.1	96	sw.			3		1			0	0	sm'h		clear.
S. S. Salerno, N. 15° 01′, E. 56° 33′†	29.90	759.4	87	30.6		w.			4		0			0	0	sm'h	w.	clear.
Bk. Alpheus Marshall, S. 35° 47′, E. 20° 20′ *†	29.94	760.5				wnw.			1		1			2 h'r	2 h'r	mod.	w.	hazy.
S. Annie M. Law, S. 27° 08′, E. 50° 17′ *†	30.31	769.9	70	21.1		se.			2		1		se.	0	0	mod.	sse.	clear.
Bk. Ceylon, S. 34° 54′, E. 24° 11′*†	30.08	764.0	76	24.4	82	wsw.			3		5		w.	0	0	long	wsw.	fair.
S. Dynomene, S. 35° 10′, E. 23° 20′	29.99	761.7	68	20.0	95	ssw.			1		4			0	0	light	sw.	d. clouds.
Bk. Pilgrim, Samarang, Java, Oceania*†	29.90	759.4				e.			3		2		e.	0	0			clear.
S. St. David, S. 12° 26′, E. 105° 27′ *†	29.88	758.9	82	27.8	77	ese.			5		3		ese.	0	0	short	ese	hazy.
S. S. Foscolia, N. 12° 39′, E. 47° 31′ †	29.84	757.9				wsw.			2		2		sw.	0	0	sm'h		clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 24, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.13	765.3	71.6	22.0	87	e.			1		0			inap.	inap.	clear	Malaterre.
Algiers			30.14	765.5	70.9	21.6	74	ne.			1		6			0	0	cloudy	Thève.
La Galle			30.16	766.0	67.3	19.6	80	ene.			4		2			0	0	fair	Fonfrède.
Tunis			30.19	766.9															Jacques.
Saida			30.16	766.0															Pérès.
Tebessa			30.18	766.5	77.0	25.0	28	nw.			3		3			0	0	pretty fair	St. Martin.
Geriville					82.4	28.0	22	ssw.			1		3			0	0	pretty fair	Forfert.
Laghouat			30.13	765.3	83.8	28.8	28	e.			2		2			0.047	1.2	fair	Abraham.
Biskra			30.15	765.8	91.0	32.8	28	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.71	754.6	52.7	11.5	88	w.	11	4.9			10 n			0.795	20.2	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.62	752.3	29.71	754.6	49.3	9.6	81	nne.	4	1.8			10			0.02	0.5	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.47	748.6	30.00	762.1	70.5	21.4	44	se.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.12	739.6	29.89	759.1	52.9	11.6	88	sw.	8.7	3.9			10			0.465	11.8		Dr. Wierzbiski
Eperies	29.00	736.6	29.87	758.8	53.6	12.0	87	calm			0		10 ks		se.	inap.	inap.		Julius Mikolik.
Gratz	28.78	731.0	30.00	761.9	65.8	18.8	64	ne.			1		7			0	0		Andreas Rospini.
Hermannstadt	28.47	723.2	29.90	759.5	53.2	11.8	94	w.			1		10			0.260	6.6	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.71	729.1	30.00	762.1	68.9	20.5	50	w.			4	7 c	k			0	0	cloudy	The Staff.
Lemberg	28.81	731.8	29.79	756.6	53.6	12.0	67	nw.			5		10			0.165	4.2		Dr. T. Stanecki.
Neu Schmecks	26.50	673.1	29.86	758.5	47.5	8.6	89	w.			2		10			0.315	8.0		Dr. V. von Szontagh.
Pola	30.04	763.0	30.15	765.8	70.7	21.5	57	sse.			4		4			0	0		I. R.Hydrographic Office.
Szathmar	29.43	747.4	29.88	759.0	54.0	12.2	70	n.			3		10			0.079	2.0		Joseph Midlinszky, S. J.
Szegedin	29.65	753.2	29.93	760.2	61.5	16.4	75	nw.			2		10			0.146	3.7		Karl Stancel.
Trieste	30.03	762.7	30.13	765.2	68.7	20.4	50	w.			1		6			0	0		Royal Academy.
Vienna	29.28	743.6	29.97	761.3	70.0	21.1	38	nw.			2		9			0.091	2.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.70	754.4	29.79	756.7	69.0	20.6	48	sw.	16	7.2			3			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.74	755.4	29.98	761.5	57.0	13.9	69	sw.	17	7.6			10					gloomy	S. Oall.
Bidston, Liverpool Obs'y			30.04	763.0	61.0	16.1	70	nw.	8	3.6			1					blue sky	John Hartnup.
Bolton, Sharples	29.50	749.3	30.03	762.7	63.8	17.7	70	wsw.	6	2.7			2					misty	Thomas Mackereth.
Bradford, Yorkshire	29.62	752.3	30.02	762.5	63.0	17.2	65	nw.			2		2			0	0	blue sky	McLandsborough&Preston.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84	28.9	75	ne.			3		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.97	761.2	30.07	763.8	77.2	25.1	65	w.			0.6		0					blue sky	John McLaren.
Chatham, School M. E.	29.97	761.2	30.09	764.3	75.9	24.4	40	sw.			1		0					misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.92	760.0	30.15	765.8	58.7	14.8	76	wnw.			1		9					d. clouds	The Staff.
Fort Napier, Natal	27.69	703.3	29.92	760.0	76.5	24.7	46	ne.			1							blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.72	754.9	29.95	760.7	84.0	28.9	75	ne.			1		2					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.92	760.0	29.94	760.5	58	14.4	70	w.			4		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.08	764.0	30.13	765.3	68.2	20.1	91	w.			1		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.72	754.9	29.92	760.0	60.8	16.0	58	sw.			4		4					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.91	759.7	30.08	764.0	75.1	23.9	37	wsw.			1		0					blue sky	The Staff.
Guernsey	29.88	758.9	30.17	766.3	58.6	14.8	82	wsw.			1		10					overcast	A. Collenette, F. M. S.
Kew, Observatory	30.05	763.3	30.09	764.3	69.7	20.9	34	wsw.	10	4.5			0					blue sky	The Staff.
Leicester, Museum	29.78	756.4	30.03	762.7	71.5	21.9	83	sw.			1							blue sky	J. C. Smith.
Malta, Mediterranean	30.09	764.3	30.17	766.3	68.2	20.1	96	ne.					3					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.16	766.1	77.0	25.0	59	ne.			3		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.53	750.0	30.04	763.0	70.9	21.6	83	sw.			3		0					blue sky	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.85	758.2	30.08	764.0	69.9	21.1	39	sw.			2		0					blue sky	The Staff.
Plymouth	30.07	763.8	30.14	765.5	60.8	16.0	78	calm			0		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.60	751.8	29.70	754.4	51.9	11.1	86						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.98	761.5	30.04	763.0	70.6	21.4	58	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.74	755.4	30.00	762.0	75.1	23.9	56	sw.			1		1			0	0	blue sky	W. F. Cooper.
Sillioth Rectory	29.96	761.0	29.99	761.7	55.6	13.1	77	sw.			5		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.05	763.3	57.9	14.4	74	w.	12	5.4			10					overcast	W. C. Carlisle.
Truro, Royal Institution	30.12	765.0	30.22	767.6	60	15.6	71	w.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	30.01	762.2	30.04	763.0	58.6	14.8	73	ssw.	21	9.4			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.84	757.9	30.23	767.8	69.8	21.0	54	sw.	5.0	2.2		2 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.65	753.1	29.69	754.1	54	12.2	88	s.	8	3.6			10 s		sw.	0.900	22.9	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.62	752.3	29.68	753.9	43	6.1	93	n.	1	0.4			10 n		n.	1.12	28.4	cloudy	G. A. Blair.
Cornwall, Ontario	29.61	752.1	29.80	756.9	41.4	5.2	96	ne.			1		10 s			0.403	10.2	overcast	Jas. Smith, M. A.
Dalhousie, N. B	29.62	752.3	29.67	753.6	45.0	7.2		w.			1		10 s			0.850	21.6	overcast	H. A. Johnson.
Father Point, Quebec*	29.72	754.9	29.75	755.6	36	2.2	85	ne.	10	4.5			10 n			0.08	2.0	light rain	J. McWilliams.
Fort Garry, Manitoba*	28.74	730.0	29.55	750.6	49	9.4	100	se.	5	2.2			10 n		se.	0.84	21.3	heavy rain	James Stewart.
Fredericton, N. B	29.63	752.6	29.70	754.4	44.9	7.2	85	w.	1	0.4			5			1.100	29.5	misty	Prof. Harrison, L. L. D.
Granton, Ontario	28.93	734.8	30.04	763.0	44.0	6.7	92	nw.	2	0.9		0	0			0	0	clear	Jas. Grant.
Halifax, N. S*	29.64	752.8	29.77	756.1	51	10.6	100	sw.	5	2.2		10 k	0	sw.		0.568	14.4	clearing	A. Allison.
Hamilton, Ontario	29.48	748.8	29.87	758.7	49.5	9.7	90	sw.			2	2 c	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.55	750.6	29.89	759.2	49	9.4	71	n.	6	2.7		5 k	0	nw.		0.52	13.2	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.72	754.9	29.76	755.9	63.8	17.7	86	sw.			1	7 k	0	sw.		0.84	21.3	fair	C. H. Rigby.
Montreal, Quebec*	29.01	752.1	29.82	757.4	44	6.7	89	n.	1	0.4			10 s			0.16	4.1	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.59	751.6	29.84	757.9	45.5	7.5	87	n.			2		10 ks			0.91	23.1	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.25	742.9	29.95	760.7	47	8.3	86	s.	0	0		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.19	741.4	29.93	760.2	53.7	12.1	74	nw.			1	0	0			0.20	5.1	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.29	744.0	29.98	761.5	49	9.4	51	nw.	6	2.7		0	0			inap.	inap.	clear	H Morgan.
Port Stanley, Ontario	29.25	745.5	30.01	762.2	46	7.8	86	nw.	3	1.3		0	0			0.02	0.5	clear	M. Payne.
Quebec, Quebec*	29.42	747.3	29.78	756.4	40	4.4	92	e.	8	3.6			10 s		e.	0	0	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.45	748.0	29.91	759.7	46	7.8	71	nw.	3	1.3		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N .B	29.62	752.3	29.67	753.6	44	6.7	98	calm	0	0			fg.			0.77	19.6	foggy	
St. John, N. B	29.52	749.8	29.69	754.1	43.0	6.1	100	sw.	12	5.4			fg			0.180	4.6	foggy	G. Murdock, C. E.
Saint John's, N. F	30.05?	763.3?	30.31?	769.9?	37	2.8		se.			2		10 n			0	0	foggy	J. Higgins.
St. Pierre, N. F			29.92	760.0	41.0	5.0		e.			2					1.00	25.4		The Commandant
Saugeen, Ontario*	29.26	743.2	29.98	761.5	45	7.2	89	w.	6	2.7		0	0			0	0	clear	
Stratford, Ontario	28.73	729.7	30.01	762.2	47.7	8.7	68	w.	3	1.3		0	0			c	0	blue sky	C. J. Macgregor, M A
Sydney, C. B*	29.71	754.6	29.77	756.1	54	12.2	96	sw.	15	6.7		5 ck	2 s	s.		1.11	28.2	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.59	751.6	29.98	761.5	48	8.9	61	nw.	8	3.6		0	0			inap.	inap.	clear	Magnetic Observatory.
Windsor, N. S	29.72	754.9	29.82	757.4	52.0	11.1	86	e.	16	7.2		0	1 k			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.95	735.3	30.01	762.2	51.3	10.7	58	w.	8	3.6		0	0			0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.66	753.4	29.72	754.9	48	8.9	93	sw.	5	2.2		0	hz.			1.66	42.2	clear	Lt. F. E. Wilmot, R.N.
London, Ontario	29.12	739.6	30.04	763.0	41.7	5.4	81	calm			0	0	0			0	0	blue sky	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	29.87	758.7	29.90	759.4	69.0	20.6	73	nne.	6.0	2.7		5 c	0			0	0	fine	John Duthie.
Springbok Fontein																			J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.37	644.4																	A. Gueluy.
Tchang-kia-tchouang	29.61	752.1	29.72	754.9	74.8	23.8	78	nw.			1		9			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.76	755.8	29.78	756.4	65.5	18.6	91	ese.	4.0	1.8			10 n			0.039	1.0	raining	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.77	756.2	29.82	757.4	62.8	17.1	60	nw.	20	9			1						Oversergent Fischer.
Fanoe	29.93	760.2	29.95	760.7	55.9	13.3	87	wsw.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.85	758.3	29.90	759.4	33.4	0.8	92	s.			2		10					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.81	757.2	29.86	758.4	31.5	− 0.3		s.			2		8					foggy	
Stykkisholm, Iceland	29.12	739.6	29.16	740.7	35.2	1.8	84	ne.			4		8						A. O. Thorlacius.
Thorshavn	29.39	746.5	29.41	747.1	49.6	9.8	83	sw.	19.0	8.5			7						Overloerer Bergh.
Vestervig	29.80	756.8	29.89	759.1	56.1	13.4	78	w.			6		3						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.80	756.9			87.3	30.7		n.	6.3	2.8		0	2 k			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.54	750.4	30.17	766.3	75.9	24.4	55	se.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.64	752.9	30.19	766.9	68.0	20.0	62	calm			0	0	5 s			0	0	cloudy	M. Nicot, Director.
Arras, Engineer School	29.86	758.5	30.11	764.9	69.6	20.9	46	n.			3	0	0			0	0	clear	M. Fénéon, Command't.
Avignon, Normal School	30.12	765.1	30.20	767.1	79.2	26.2	49	sw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.61	752.2	30.15	765.8	75.7	24.3	36	ne.			1	2 c	0			0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.92	760.0	30.18	766.6	71.2	21.8	43	sw.			1		0			0	0	clear	M. Frère Eugène Marié.
Besançon, Normal School	29.24	742.8	30.11	764.8	78.1	25.6	38	n.			1	ck	0	w.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.84	758.0	30.10	764.4	78.6	25.9	39	se.			2		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.61	752.0	30.13	765.3	80.6	27	28	e.			3		1		e.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.94	760.4	30.18	766.6	76.3	24.6	61	calm			0		2			0	0		M. de Kermarée, Dir.
Caen, Normal School	30.07	763.8	30.14	765.6	65.8	18.8	67	ne.			2		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.77	756.2	30.08	764.0	78.3	25.7	72	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.61	752.2	30.11	764.7	78.1	25.6	39	sw.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.81	731.8	30.10	764.5	80.4	26.9	30	ne.			1	0	2 k			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.34	745.1	30.17	766.3	81.9	27.7	18	wnw.			1		1			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.32	744.7	30.15	765.9	72.5	22.5	44	nw.			1	2 c		nw.	nw.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.65	702.3	30.09	764.3	74.7	23.7	27	w.			2	0	2 k		s.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.09	738.8	30.17	766.4	75.2	24.0	53	nw.			1		2		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.37	746.0	30.08	764.0	78.8	26	36	nw.			1	0	2 ks			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.59	726.2	30.08	764.1	74.3	23.5	42	sw.			1		10			0	0	covered	M. Delorme, Dir.
Lamballe, Normal School	29.97	761.1	30.23	767.9	66.9	19.4	51	n.			1		5		n.	0	0	cloudy	M. Olliffrault, Director.
Lescar, Normal School	29.52	749.7	30.06	763.4	82.4	28.0	42	se.			2	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.03	762.8	30.13	765.4	76.1	24.5	51	s.			1		2	ne.		0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.13	739.8	30.15	765.8	77.7	25.4	27	nne.			1	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.84	757.9	30.14	765.5	73.4	23	59	s.			1		2		sw.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.95	760.8	30.22	767.6	72.3	22.4	68	sw.			1		1			0	0		M. Stephan, Director.
Montlouis	24.94	633.5	29.78	756.5	45.5	7.5	85	nw.	18.6	8.3			10	se.		0.106	2.7		M. Cave for Dr. Fines.
Montpellier, Normal School	30.06	763.5	30.16	766.1	70.5	21.4	77	sse.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.39	746.6	30.15	765.7	76.6	24.8	50	wnw.			1	c	0			0	0		M. Hasse, Director.
Nantes, Observatory	30.00	762.0	30.16	766.1	79.7	26.5	40	se.			0–1	0	3 k	ssw.	sse.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.09	764.2	30.20	767.0	67.1	19.5	76	e.	7.4	3.3			3		se.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.45	544.7			42.1	5.6		w.			1		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.11	739.4	30.22	767.7	79.9	26.6	53	e.			1	2 c	0			0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.38	644.6			58.6	14.8	52	se.			1		2 k			0	0	½ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.06	763.6	30.10	764.4	81.7	27.6	46	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.87	758.6	30.07	763.8	80.1	26.7	38	e.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.08	713.3	30.15	765.8	76.5	24.7	80	sw.			1		1		se.	0.090	2.3	clear	M. Seger, Director.
Rouen, Normal School	30.13	765.2	30.17	766.4	72.7	22.6	37	wnw.			1		0			0	0	clear	M. Mouillot, Dir.
Saint Maur, Observatory	30.08	764.1	30.17	766.2	77.5	25.3	42	n.			1		0			0	0		M. Renou, Director.
Toulouse, Observatory	29.48	748.7	30.21	767.2	83.8	28.8	46	se.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.95	760.8	30.13	765.3	77.0	25.0	37	n.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.67	753.6	30.16	766.0	74.8	23.8	46	w.			1					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.93	760.3	30.08	764.1	82.9	28.3	40	e.	11.9	5.3		c	3 k	sw.	sw.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.67	728.2	30.06	763.6	72.7	22.6	38	nw.			6		3	nw.		0	0		Prof. Jnedt.
Bamberg	29.20	741.7	30.05	763.2	72.3	22.4	36	wnw.			3	0	6 ks		w.	0	0		Prof. Dr. Hoh.
Berlin	29.79	756.7	29.93	760.2	66.2	19.0	56	w.			3		9			0	0		Meteorological Institute.
Breslau	29.44	747.7	29.97	761.2	55.4	13.0	75	wnw.			2		10			0.157	4.0	foggy	Royal University Obs'y
Carlsruhe	29.67	753.6	30.11	764.9	77.5	25.3	35	sw.			3		5	sw.		0	0		Albert Senz.
Cassel	29.34	745.3	30.06	763.4	72.0	22.2	44	w.			4		5	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.05	763.3	77.4	25.2	34	wnw.			1		4			0	0		Physical Society.
Friedrichshafen	28.77	730.7	30.15	765.7	68.7	20.4	62	sw.			1		3	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.91	759.6	30.00	761.9	63.7	17.6	68	wnw.			6		3			0	0		E. Preller.
Kiel	29.94	760.4	29.95	760.8	61.3	16.3	64	nw.			3		4			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.3	29.98	761.6	72.0	22.2	44	wnw.			3		9			0	0	hazy	H. Leppig, Asst.
Magdeburg	29.79	756.6	29.97	761.3	68.9	20.5	49	wnw.			4		5	w.		0	0		Dr. Assmann.
Memel	29.66	753.4	29.71	754.6	47.8	8.8	83	wnw.			5	2 c	0						Issermann.
Munich	28.31	719.0	30.18	766.5	73.6	23.1	39	w.			3		4	w.		0	0		Central Station.
Neufahrwasser	29.78	756.3	29.79	756.7	51.6	10.9	85	nw.			3		10			0.035	0.9	sprinkling	A. Lothes.
Neustadt, Palatinate	29.54	750.3	30.07	763.7	78.3	25.7	28	w.			1		2			0	0		Dicknether.
Stuttgart	29.17	741.0	30.03	762.7	77.0	25.0	23	n.			2		3	n.		0	0		Prof. Dr. Schoder.
Wustrow	29.92	760.0	29.95	760.6	57.0	13.9	79	sw.			3		3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.72	754.9	30.10	764.6	68.9	20.5		sw.			1.0	0	2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.55	750.7	29.60	751.9	88.4	31.3	82	ssw.	17.0	7.6			5		ssw.	0	0	d. clouds	
Deesa	29.13	739.8	29.58	751.3	99.8	37.7	26	sw.	14.0	6.3			2	sw.		0.05	1.3	d. clouds	
Bombay	29.71	754.7	29.75	755.7	88.4	31.3	70	w.	10.0	4.5			2	wnw.	w.	0	0	d. clouds	
Poona, Yarrowda	27.88	708.1	29.68	753.9	91.3	32.9	37	sw.	29.0	13.0			1			0	0	d. clouds	
Trichinopoly	29.44	747.7	29.70	754.5	101.3	38.5	38	calm	0	0			6	nne.	ne.	0	0	d. clouds	
Belgaum	27.18	690.3	29.66	753.3	84.8	29.3	53	e.	12.0	5.4			1	s.		0	0	d. clouds	
Lahore	28.84	732.4	29.55	750.0	97.2	36.2	25	nw.	4.0	1.8			0			0	0	blue sky	
Roorkee	28.66	727.9	29.53	750.0	91.8	33.2	30	n.	5.0	2.2			8	n.		0	0	thndr & light'g	
Agra	29.06	738.1	29.61	752.1	91.2	32.9	29	nw.	4.0	1.8			0			0	0	blue sky	
Nagpur	28.51	724.2	29.50	749.2	106.0	41.1	15	wnw.	12.0	5.4			3	w.		0	0	d. clouds	
Jubbulpore	28.24	717.3	29.54	750.4	95.7	35.4	22	nw.	14.0	6.3			6		nw.	0	0	d. clouds	
Lucknow	29.24	742.6	29.60	751.9	89.1	31.7	65	wnw.	7.0	3.1			0			0	0	blue sky	
Allahabad	29.26	743.2	29.56	750.9	93.7	34.3	36	nw.	4.0	1.8			3			0.13	3.3	d. clouds	
Patna	29.32	744.6	29.49	749.1	100.7	38.2	27	nw.	2.7	1.2			2	nw.	nw.	0	0	squally	
Hazaribagh	27.58	700.4	29.51	749.5	93.7	34.3	22	nw.	7.4	3.3			0			0	0	hazy	
Cuttack	29.46	748.2	29.53	750.1	90.9	30.1	49	w.	3.0	1.3			0			0.26	6.6	blue sky	
Calcutta, Alipore	29.49	749.0	29.51	749.5	94.0	34.4	46	ssw.	7.0	3.1			3			0	0	d. clouds	
Dhubri	29.40	746.9	29.52	749.8	87.7	30.9	71	calm	2.0	0.9			4	sw.		0	0	d. clouds	
Chittagong	29.52	749.9	29.61	752.1	85.0	29.4	76	calm	2.3	1.0			2			0	0	blue sky	
Sibsagar	29.21	742.0	29.54	750.3	85.7	29.8	77	sw.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.21	716.5	29.61	752.0	92.7	33.7	34	wsw.	5.6	2.5			1		w.	0.03	0.8	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.22	716.8	.....	.....	97.2	36.2	25	w.	8	3.6	.....	5 ck	0	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.96	761.0	81.0	27.2	77	ssw.	8.9	4.0	.....	.....	3	se.	ne.	0.03	0.8	d. clouds	
ITALIAN.																			
Udine	29.72	755.0	30.13	765.2	70.0	21.1	45	sw.	0.7	0.3	.....	.....	8	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.62	752.4	30.13	765.3	76.1	24.5	40	sw.	6.3	2.8	.....	.....	2	nnw.	.....	0	0	.....	Prof. G.V.Schiapparelli.
Padua	30.00	762.1	30.11	764.8	72.1	22.3	55	ssw.	1.3	0.6	.....	.....	3	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.24	742.6	30.13	765.2	75.6	24.2	49	e.	3.8	1.7	.....	.....	4	e.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.03	762.7	30.22	767.6	68.0	20.0	61	s.	5.6	2.5	.....	.....	4	s.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.24	717.4	30.13	765.2	72.9	22.7	48	n	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.09	764.3	30.14	765.5	69.8	21.0	48	se.	7.4	3.3	.....	.....	4	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.95	760.7	30.20	767.1	70.2	21.2	49	sw.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	30.09	764.2	30.17	766.3	67.6	19.8	63	w.	1.3	0.6	.....	.....	3	w.	.....	0	0	.....	Prof. P. Monte.
Rome	30.02	762.6	30.19	766.9	73.8	23.2	38	w.	13.0	5.8	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.91	759.7	30.16	766.1	69.4	20.8	34	nw.	10.5	4.7	.....	.....	3	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.27	743.4	30.13	765.3	73.8	23.2	68	wsw.	3.1	1.4	.....	.....	2	w.	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.00	762.1	30.19	766.9	66.7	19.3	61	se.	.....	.....	2	.....	0	.....	.....	0.039	1.0	.....	Prof. A. Pacinotti.
Palermo	29.98	761.5	30.23	767.8	67.6	19.8	39	ne.	9.8	4.4	.....	.....	0	.....	.....	0	0	.....	Prof. G. Caccatore.
Syracuse	30.10	764.5	30.14	765.6	71.4	21.9	67	e.	3.1	1.4	.....	.....	6	w.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.67	753.7	30.19	766.7	71.2	21.8	48	nw.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.40	569.0	.....	.....	37.0	2.8	59	nw.	.....	.....	1	.....	4	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	22.41	569.2	.....	.....	49.1	9.5	53	se.	.....	.....	1	.....	2	.....	.....	0	0	.....	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.82	757.3	29.85	758.2	55.3	12.9	90	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. Hattori.
Awomori	29.80	756.9	29.84	757.9	57.8	14.3	71	nnw.	4.0	1.8	.....	.....	10 s	.....	.....	0	0	overcast	K. Ogawa.
Hamamatsu	29.79	756.6	29.81	757.3	63.3	17.4	93	nnw.	.....	.....	2	1 cs	0	w.	.....	0	0	clear	
Kagoshima	29.82	757.5	29.84	757.8	68.2	20.2	86	calm	.....	.....	0	.....	10 s	.....	.....	0.016	0.4	overcast	G. Miyanohara.
Kioto	29.99	754.1	29.86	758.5	59.6	15.3	96	ne	2.8	1.2	.....	0	0	.....	.....	0.099	2.5	clear	M. Tojima.
Miasaka	29.84	758.0	29.87	758.7	65.4	18.6	87	nne.	.....	.....	2	.....	9 ks;s	.....	e.	0.079	2.0	cloudy	K. Masusaki.
Miyako	29.74	755.4	29.85	758.2	55.7	13.2	44	ne.	5.5	2.4	.....	6 ck	0	.....	.....	0	0	fair	N. Honno.
Nagasaki, I. M. Obs'y	29.63	752.6	29.82	757.4	64.7	18.2	96	calm	0	0	.....	.....	9 s	.....	.....	0.040	1.0	misty	S. Takehayashi.
Nilgata	29.83	757.7	29.87	758.7	56.9	13.8	92	n.	0.8	0.4	.....	0	0	.....	.....	0	0	clear	M. Morita.
Nobiru	29.80	756.8	29.81	757.2	59.3	15.2	63	n.	5.5	2.4	.....	8cs;ck	0	.....	.....	0	0	fair	H. Midzushina.
Numazu	29.80	756.9	29.83	757.8	58.0	14.4	86	calm	.....	.....	0	2 c	0	.....	.....	0	0	clear	R. Kaneda.
Osaka	29 84	758.0	29.86	758.4	63.5	17.5	91	w.	4.4	2.0	.....	0	0	.....	.....	0	0	clear	H. Omura.
Tokei Obs'ys Yeddo	29.79	756.6	29.86	758.4	60.5	15.8	68	ese.	6.8	3.0	.....	1 cs	0	.....	.....	0	0	clear	The Staff.
Wakayama	29.80	757.0	29.85	758.3	63.6	17.6	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.92	760 0	30.11	764.8	75.1	23.9	66	e.	16.5	7.4	.....	0	4 k	.....	ese.	0.76	19.3	fair	The Staff.
MEXICAN.																			
Guanajuato	23.66	600.9	29.88	758.9	56.3	13.5	86	n.	inap.	inap.	.....	.....	10 kn	.....	se.	0.723	18.4	covered	Prof. Vicente Fernandez.
Leon	24.28	616.7	29.97	761.2	56.8	13.8	95	sw.	2.0	0.9	.....	8 c	2 n;s	s.	s.	0.827	21.0	covered	Prof. M. Leal.
Mazatlan	29.67	753.6	29.93	760.2	67.0	19.4	92	e.	11.0	4.9	.....	.....	10 n	.....	e.	1.220	31.0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	70	21.1	90	s.	10.5	4.7	.....	.....	10 s	.....	.....	0.09	2.3	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.14	765.6	30.14	765.6	57.9	14.4	.....	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	29.99	761.8	30.05	763 2	64.0	17.8	.....	nw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	30.09	764.3	30.09	764.3	58.3	14.6	.....	w.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.13	765 3	30.13	765.3	68.4	20.2	51	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	30.08	763.9	30.12	765.1	72.0	22.2	50	wnw.	.....	.....	2	.....	2	.....	.....	0	0	lightly cld'y	H. van der Brink.
Sub-series.																			
Batavia, Java	29.84	757.8	.....	.....	81.5	27.5	73	ne.	0	0	.....	.....	6	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.71	754.7	29.78	756.3	49.3	9.6	92	sse.	20	9	.....	.....	10	.....	.....	0.197	5.0	raining	
Brono	29.52	749.9	29.56	750.9	46.0	7.8	78	sw.	.....	.....	6	.....	10	.....	.....	0.413	10.5	raining	
Christiania	29.51	749 5	29.65	753.1	66.9	19.4	31	sw.	9	4	.....	.....	4	.....	.....	0	0	.....	
Gjesvær	29.03	752.5	29.65	753.1	52.2	11.2	.....	se.	.....	.....	6–7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.45	747.9	29.49	749.1	50.7	10.4	61	s.	.....	.....	4	.....	5	.....	.....	0.063	1.6	.....	
PORTUGUESE.																			
Angra, Azores	29.82	757.5	29.98	761.5	63.3	17.4	80	ne.	12.5	5.6	.....	.....	3	.....	.....	0.157	4.0	.....	Dr. J. A. Sampaio.
Campo Mujor	29.10	739.2	30.07	763.8	76.6	24.8	55	ssw.	5.6	2.5	.....	.....	5	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.95	760.7	30.04	762.9	68.0	20.0	72	sw.	3.8	1.7	.....	.....	4	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.79	756.6	30.12	765.0	66.7	19.3	64	sw.	8.7	3.9	.....	.....	2	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.86	758.5	29.93	760.3	64.0	17.8	76	nne.	7.4	3.3	.....	.....	3	.....	.....	0.098	2.5	.....	
Saint Paul de Loando	29.72	754.9	29.92	760.0	80.1	26.7	82	w.	1.3	0.0	.....	.....	9	.....	.....	0	0	.....	
Serra da Estrella	25.38	644.7	30.00	762.1	60.4	15.8	54	ese.	23.7	10.6	.....	.....	5	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.54	725.0	29.54	750.2	85.3	29.6	20	wsw.	7	3	.....	6 ck	0	.....	.....	0.024	0.6	.....	Major K. Lasarew.
Archangel	29.84	757.9	29.86	758.4	61.5	16.4	36	e.	13	6	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashurada	29.94	760.5	29.85	758.1	78.8	26.0	76	wnw.	11	5	.....	0	2 k	.....	.....	0	0	.....	
Astrakhan	29.87	758.7	29.79	756.6	79.9	26.6	40	n.	4	2	.....	0	8 s;n	.....	.....	0.189	4.8	.....	Capt. Wisganow.
Baku	29.93	760.3	29.89	759.1	78.4	25.8	58	s.	4	2	.....	0	0	.....	.....	0.008	0.2	.....	
Barnaul	29.30	744.2	29.77	756.1	75.7	24.3	20	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y
Bielosersk	29.27	743.5	29.72	754.9	66.0	18.9	49	ese.	11	5	.....	.....	9 s	.....	.....	0.008	0.2	.....	
Dorpat	29.32	744.7	29.56	750.8	47.8	8.8	87	nw.	4	2	.....	.....	10ks;n	.....	.....	0.134	3.4	.....	Observatory.
Ekaterinburg	28.84	732.5	29.74	755.4	83.7	28.7	30	nnw.	4	2	.....	.....	7 ks;s;n	.....	.....	0	0	.....	Meteorological Obs'y
Elissawetgrad	29.39	746.4	29.83	757.6	61.7	16.5	41	wsw.	18	8	.....	.....	10 kn	.....	.....	0.031	0.8	.....	
Irkutsk	28.43	722.2	30.07	763.8	50.2	10.1	43	ese.	.....	.....	3	.....	10	.....	.....	0	0	.....	
Kasalinsk	29.35	745.4	29.52	749.9	86.7	30.4	44	w.	4	2	.....	.....	10 k	.....	.....	.....	.....	.....	
Kasan	29.43	747.0	29.69	754.0	81.5	27.5	40	sse.	7	3	.....	0	3	.....	.....	0.012	0.3	.....	Observatory.
Kem	29.72	754.9	29.77	756.2	47.1	8.4	70	ese.	31	14	.....	.....	10 ks	.....	.....	0	0	heavy cl'ds	
Kertch	29.98	761.6	30.01	762.2	63.1	17.3	65	wsw.	4	2	.....	0	6 ks	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.08	738.7	29.71	754.7	53.8	12.1	85	ssw.	13	6	.....	.....	10 n	.....	.....	0.445	11.3	raining	Observatory.
Koslov	29.24	742.7	29.76	756.0	64.2	17.9	50	w.	9	4	.....	.....	10 s	.....	.....	0.276	7.0	.....	
Libau	29.62	752.4	29.65	753 0	49.1	9.5	70	w.	7	3	.....	.....	0	.....	.....	0	0	.....	E. Quass.
Lugan	29.65	753.0	29.83	757.6	61.0	16.1	63	wsw.	9	4	.....	.....	7	.....	.....	0.193	4.9	.....	Meteorological Obs'y.
Moscow	29.20	743.2	29.72	754.8	62.4	16.9	38	wsw.	7.8	3.5	.....	.....	10 n	.....	.....	0.004	0.1	.....	Meteorological Obs'y
Nikolaiev	29.83	757.7	29.91	759.0	64.2	17.9	53	ssw.	31	14	.....	0	2 k	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.86	758.4	29.95	760.6	46.2	7.9	67	se.	13	6	.....	.....	10	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.62	752.3	29.76	755.9	69.8	21.0	79	calm	0	0	.....	.....	10 n	.....	.....	0.421	10.7	.....	Physical Observatory.
Petro-Alexandrovsk	29.41	747.1	29.74	755.5	83.3	28.5	34	w.	2.2	1.0	.....	.....	10 ks	.....	.....	0	0	.....	
Petrozavodsk	29.45	748.0	29.64	752.9	59.2	15.1	68	se.	16	7	.....	0	7 ks	.....	.....	0.012	0.3	.....	Dr. Bergmann.
Pinsk	29.21	742.0	29.71	754.6	48.4	9.1	96	w.	4	2	.....	.....	10 n	.....	.....	0.232	5.9	raining	
Poti	30.03	762.7	30.06	763.5	63.7	17.6	90	nw.	7	3	.....	.....	10 n	.....	.....	0.024	0.6	.....	
St. Petersburg	29.58	751.4	29.61	752.0	53.8	12.1	52	sse.	11	5	.....	.....	9 k	.....	.....	0.035	0.9	.....	Central Physical Obs'y.
Samarkand	27.39	695.6	29.73	755.1	76.8	24.9	60	calm	0	0	.....	2 c	0	.....	.....	0	0	.....	
Semipalatinsk	29.11	739.4	29.72	754.8	85.8	29.9	20	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.80	756.9	30.02	762.6	66.1	15.6	57	sw.	27	12	.....	0	5 ks	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.26	743.2	29.72	754.8	49.5	9.7	83	s.	11	5			10 n			0.142	3.6	light rain	
Tashkend	28.13	714.6	29.67	753.7	88.9	31.6	31	calm	0	0		0	4 ks			0	0		Terch, A. M.
Tiflis	28.54	724.9	29.90	759.4	75.6	24.2	51	nw.	9	4		1 cs	0			0	0		Physical Observatory.
Vernoe	27.21	691.1	29.52	749.9	86.4	30.2	27	e.	2	1		0	3 k			0	0		
Viatka	29.15	740.4	29.75	755.7	71.4	21.9	55	ne.	7	3			3			0.063	1.6		
Warsaw	29.37	746.0	29.80	756.8	57.4	14.1	81	nnw.	16	7			10			0.150	3.8	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.52	749.7	29.80	756.9	46.8	8.0	87	ese.	2	1			10			0.374	9.5	raining	M. O. Marks.
SCOTTISH.																			
Monach Lt			29.70	754.4	51	10.6	93	sw.			6		10			0.1	3.	hazy.	J. Youngclause
North Unst			29.50	749.3				sw.			6		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.13	765.3	30.23	767.9	72.0	22.2	57	s.	3.1	1.4		0	0			0.091	2.3	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.97	761.2	30.03	762.7	88.9	31.6	30	se.	2.9	1.3		2	2	sw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.15	689.7	29.99	761.8	75.2	24.0	40	sw.	5.8	2.6		0	3			0	0		Domingo Martin.
Madrid, Royal Obs'y	27.92	709.1	30.06	763.4	78.1	25.6	36	sw.	13.0	5.8		1	0	w.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.03	762.7	30.16	766.0	73.8	23.2	69	ne.	3.8	1.7		5	5			0	0	foggy	Olayo Diaz, Director.
Oviedo	29.27	743.4	30.13	765.4	60.4	15.8	92	nw.	7.6	3.4		6 kn	4 k	n.	n.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.12	739.7	29.98	761.6	73.9	23.3	61	sw.	4.9	2.2			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.06	763.4	30.12	765.0	77.3	25.2	68	ne.	8.9	4.0		3 k	5 k	s	ne.	0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	756.8	29.85	758.3	82.7	28.2	82	s.	19.7	8.8		0	2 ks		e.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.7	30.16	766.2	70.5	21.4	78	se.	8.6	3.9			10		se.	0.151	3.8		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.7	30.08	764.0	78.1	25.6	94	e.	7.2	3.2		0	3 k		e.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.66	753.4	29.70	754.4	46.4	8.0	89	se.			2		10			0.591	15.0		
Umea	29.61	752.1	29.66	753.4	52.9	11.6	71	se.			4		6			0.012	0.3		
Hernosand	29.61	752.1	29.66	753.4	50.0	10.0	84	ssw			2		8			0	0		
Stockholm	29.49	749.1	29.67	753.6	59.4	15.2	52	e.			2		3			0	0		
Wisby	29.60	751.7	29.65	753.2	51.1	10.6	70	wnw.			4		0			0	0		
Sub-series.																			
Upsala	29.54	750.2	29.62	752.4	60.8	16.0	36	n.	9.4	4.2			7	nw.	nw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.76	730.6	30.15	765.8	68.5	20.3	41	nne.			2		2			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			30.07	763.8	66.9	19.4	43	sw.	13	6.0			2		n.	0	0		The Observatory.
Valona			30.23	767.8	70.7	21.5		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.92	759.9	76.1	24.5	73	nw.			2	c	6 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.65	676.9			56	13.3	09						10 n		calm			raining	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.75	755.6	29.83	757.7	54	12.2	71	w.	6	2.7			10 s		w.	0.16	4.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.33	745.0	29.99	761.7	50	10.0	64	w.	5	2.2		3 c	0	nw.		0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.00	635.0	29.82	757.4	43	6.1	63	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.05	687.1	29.89	759.2	47	8.3	80	sw.	6	2.7			10 s		w.	0.06	1.5	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.02	737.1	30.19	766.8	53.0	11.7	69	n.	5	2.2		hz.	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	29.91	759.7	29.92	760.0	55	12.8	69	w.	9	4.0		8 k	0	w.		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.04	763.0	30.24	768.1	52	11.1	80	nw.	3	1.3		0	0			0	0	clear	John Healy.
Baltimore, Maryland	29.95	761.0	30.01	762.2	56	13.3	62	w.	8	3.6		0	0			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.88	758.9	29.90	759.4	56.5	13.6	69	nw.	18	8.0		6 k	0	w.		0	0	fair	G. A. Hill.
Behring Id., Behring Sea	30.05	763.3	30.07	763.8	37.6	3.1		s.	31	13.9			10 n			0.02	0.5	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.20	716.3	29.76	755.9	48.0	8.9	80	w.	4	1.8		4 ck	0	nw.		0.02	0.5	fair	A. Pritchard.
Benton, Fort, Montana	27.04	686.8	29.84	757.9	50	10.0	66	calm	0	0			10 s			0.03	0.8	cloudy	S. Wheaton.
Billings, Montana	26.59	675.4	29.77	756.1	45	7.2	100	n.	14	6.3			10 n			0.68	17.3	light rain	T. Gibson.
Bismarck, Dakota	27.89	708.4	29.68	753.9	47	8.3	93	nw.	12	5.4		1 cs	0			0.12	3.0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.77	756.1	29.80	756.9	53	11.7	80	w.	20	8.9		3 c;cs	0	sw.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.36	694.9	30.20	767.1	42	5.6	80	n.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.57	751.1	29.73	755.1	55.0	12.8	86	w.	11	4.9		4 k	4 s			0.28	7.1	clearing	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.97	761.2	74.0	23.3	71	e.	4	1.8		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.23	742.4	29.97	761.2	43.5	6.4	83	sw.	12	5.4		0	0			0.11	2.8	clear	W. Finn.
Buford, Fort, Dakota	27.81	706.4	29.79	756.7	47	8.3	80	n.	4	1.8		0	0			0.12	3.0	clear	F. A. Mellen.
Burlington, Vermont	29.52	749.8	29.81	757.2	44.0	6.7	93	n.	7	3.1			10 n		w.	0.29	7.4	light rain	D. N. Farnell.
Cairo, Illinois	29.74	755.4	30.14	765.5	59.6	15.3	67	s.	6	2.7		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.04	763.0	30.06	763.5	59	15.0	48	nw.	8	3.6		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.93	760.2	29.96	761.0	54.0	12.2	61	w.	27	12.1		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.48	748.8	30.16	766.1	46	7.8	93	nw.			2	1 c	0	nw.		0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	65	18.3	68	n.	7	3.1		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.11	764.8	30.16	766.1	58.0	14.4	65	ne.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.32	744.7	30.16	766.1	57.0	13.9	57	nw.	5	2.2		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.41	747.0	30.22	767.6	48.0	8.9	93	n.	2	0.9		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.88	606.5	29.74	755.4	42.3	5.7	55	w.	16	7.2		0	0			0.11	2.8	clear	E. McGovern.
Chicago, Illinois	29.33	745.0	30.03	762.7	54.8	12.7	53	sw.	6	2.7		5 c;ck	0			0	0	fair	John Laurens.
Chincoteague, Virginia	29.99	761.7	30.01	762.2	56	13.3	55	nw.	16	7.2		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.51	749.5	30.16	766.1	51.0	10.6	80	se.	2	0.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.32	744.7	30.06	763.5	49.5	9.7	54	sw.	5	2.2		0	0			0.04	1.0	clear	J. B. Newlin.
Coleman City, Texas	28.17	715.5	29.96	761.0	60	15.6	87	se.	12	5.4		8 cs	0			0	0	cloudy	T. J. Kenan.
Columbus, Ohio	29.25	742.9	30.09	764.3	51	10.6	60	w.	2	0.9		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.02	711.7	29.92	760.0	59.0	15.0	78	s.	8	3.6			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.23	742.4	29.87	758.7	59	15.0	70	s.	4	1.8		7 ck	0	sw.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.13	638.3	29.85	758.2	59	15.0	48	calm	0	0		6 cs	0			0	0	fair	J. Williams.
Dayton, Washington T'y	28.45	722.6	30.20	767.1	44	6.7	68	s.	8	3.6		0	0			0.04	1.0	clear	D. Moore.
Deadwood, Dakota	25.20	640.1	29.72	754.9	40	4.4	70	calm	0	0			10 s			0.09	2.3	cloudy	F. Willson.
Delaware Breakwater, Del	29.96	761.0	29.98	761.5	54	12.2	74	w.	16	7.2		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.61	625.1	29.77	756.1	49.0	9.4	80	calm	0	0		0	2 k		w.	0.49	12.4	clear	F. M. Neal.
Des Moines, Iowa	28.89	733.8	29.78	756.4	58	14.4	87	sw.	10	4.5			10 n		sw.	0.41	10.4	light rain	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.04	763.0	51.0	10.6	52	w.	6	2.7		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.21	691.1	29.76	755.9	57	13.9	80	se.	13	5.8		10 ck	0	w.		0.17	4.3	cloudy	J. H. Bryce.
Dubuque, Iowa	29.14	740.1	29.84	757.9	58	14.4	57	s.	0	2.7		7 c	hz.	sw.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	28.97	735.8	29.72	754.9	46	7.8	93	calm	0	0			10 s			0.05	1.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.20	741.7	30.00	762.0	65.0	18.3	68	se.	2	0.9		0	1 s			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.26	641.6	29.94	760.5	40	4.4	75	w.	5	2.2		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	29.62	752.3	29.69	754.1	44.0	6.7	100	s.	5	2.2			fg.		s.	1.24	31.5	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.09	688.1	29.79	756.7	58	14.4	49	s.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.16	664.5	29.80	756.9	66.0	18.9	20	n.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.39	744.2	30.02	762.5	52	11.1	60	sw.	2	0.9		0	0			inap.	inap.	clear	C. A. Shaw.
Escanaba, Michigan	29.26	743.2	29.92	760.0	49.0	9.4	71	s.	6	2.7		2 ck	4 s	se.	se.	0	0	fair	George Heathcote.
Galveston, Texas	30.03	762.7	30.07	763.8	72	22.2	57	s.	8	3.6		7 cs	0			0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.35	745.5	30.01	762.2	47.5	8.6	56	s.	8	3.6		4 ck	0			0	0	fair	J. E. Mueller.
Grant, Fort, Arizona	25.20	640.1	29.81	757.2	66.9	19.4	31	nw.	7	3.1		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	30.05	763.3	30.07	763.8	57	13.9	69	nw.	10	4.5		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.78	654.8	29.96	761.0	43	6.1	68	sw.	14	6.3		10 cs	0	calm		0	0	cloudy	N. C. Smith.
Huron, Dakota	28.35	720.1	29.70	754.4	46.3	7.9	77	w.	11	4.9		5cs;k	1 s	w.		0.06	1.5	fair	S. W. Glenn.
Indianapolis, Indiana	29.32	744.7	30.10	764.5	51.0	10.6	72	sw.	2	0.9		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.99	761.7	30.02	762.5	70.2	21.2	75	s.	7	3.1		2 cs	2 ks	w.	se.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.75	730.2	29.90	759.4	63	17.2	52	s.	12	5.4			10 s		s.	0	0	cloudy	D. J. Carr.
Jacksonville Florida	30.15	765.8	30.19	766.8	64	17.8	68	w.	2	0.9		0	0			0	0	clear	J. W. Smith.

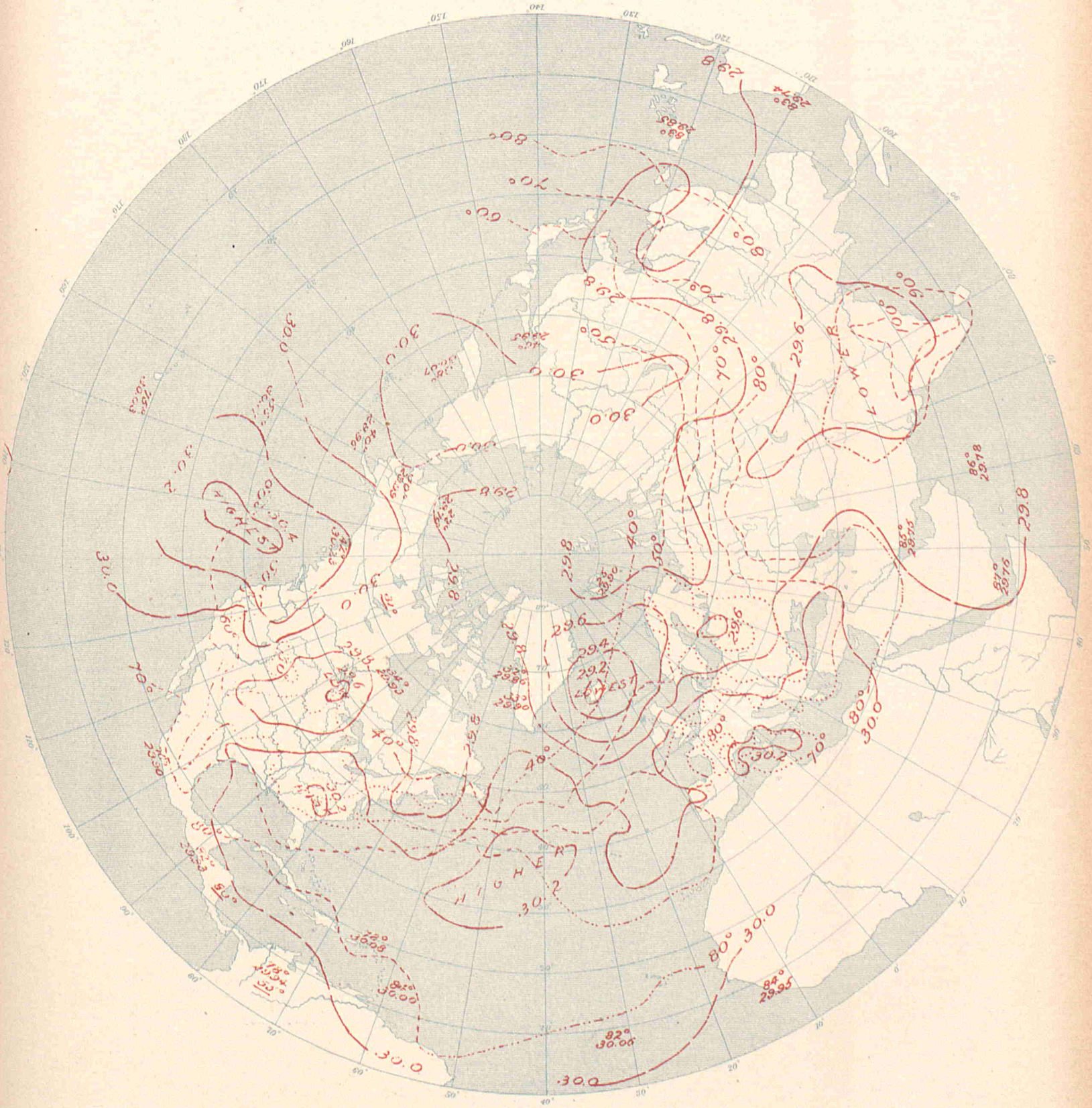
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.33	694.2	29.78	756.4	47	8.3	58	w.	4	1.8		0	5 s			0.08	2.0	fair	W. B. Lamar.
Keokuk, Iowa	29.25	742.9	29.90	759.4	60.0	15.6	60	se.	12	5.4		5 ck	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.10	764.5	30.12	765.0	75.0	23.9	64	ne.	7	3.1		2c;cs	2 k	w.	ne.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.07	763.8	30.09	764.3	57.5	14.2	72	ne.	16	7.2		hz.	0			0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.19	741.4	30.21	767.3	42.8	6.0	94	ne.	4	1.8		0	3s;fg		ne.	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.01	736.8	29.77	756.1	58	14.4	64	s.	10	4.5			10 s		s.	0.21	5.3	cloudy	S. C. Emery.
Leavenworth, Kansas	28.95	735.3	29.83	757.7	62	16.7	72	s.	9	4.0			10 ks		sw.	inap.	inap.	cloudy	A. W. Browne.
Lewiston, Idaho	29.35	745.5	30.19	766.8	47.2	8.4	69	e.	1	0.4		4 k	0	w.		0.02	0.5	fair	W. Bell.
Little Rock, Arkansas	29.74	755.4	30.05	763.3	58	14.4	75	calm	0	c		4 c	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.52	749.8	29.92	760.0	59	15.0	93	calm	0	0			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.56	750.8	30.11	764.8	53	11.7	80	s.	3	1.3		0	0			0	0	clear	L. M Dey.
Lynchburg, Virginia	29.39	746.5	30.07	763.8	57.2	14.0	55	sw.	2	0.9		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.32	744.7	29.97	761.2	46.0	7.8	76	se.	1	0.4		0	9 s			0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.10	764 5	30.11	764.8	55.0	12.8	74	nw.	13	5.8		0	0			inap.	inap.	clear	William Daly.
Maginnis, Fort, Montana	25.44	646.2	29.85	758.2	41	5.0	76	ne.	14	6.3			10 n		ne.	0.22	5.6	light rain	F. Burke.
Marquette, Michigan	29.15	740.4	29.87	758.7	49	9.4	50	e.	3	1.3		9 k	0	e.		0	0	cloudy	E. H. Thompson.
Memphis, Tennessee	29.77	756.1	30.10	764 5	60	15.6	70	se.	1	0.4		0	0			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.24	742.7	29.98	761.5	58	14.4	47	sw.	14	6.3		7 cs	0	w.		0	0	fair	W. Line.
Missoula, Fort, Montana	26.77	679.9	30.07	763.8	45	7.2	76	nw.	1	0.4		5 k	0			0	0	fair	J. H. Young.
Mobile, Alabama	30.14	765.5	30.18	766.6	57	13.9	82	nw.	2	0.9		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	29.92	760.0	30.15	765.8	55.0	12.8	78	nw.	2	0.9		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.62	726 9	29.60	751.8	50	10.0	86	w.	6	2.7			10 s		w.	0.27	6.9	cloudy	H. Bessant.
Mt. Washington, N. H	23.53	597.7	29.71	754.6	34.0	1.1	100	nw.	30	13.4			10n;fg		nw.	0.62	15.7	light rain	S. W. Beall.
Nashville, Tennessee	29.59	751.6	30.16	766.1	50.0	10.0	86	e.	6	2.7		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.70	754.4	29.82	757.4	54	12.2	74	nw.	9	4.0		1 k	0	nw.		inap.	inap.	clear	J. H. Sherman.
New London, Connecticut.	29.75	755.6	29.80	756.9	59	15.0	60	w.	3	1.3		3 k	0	w.		0.04	1.0	clear	J. G. Lynch.
New Orleans, Louisiana	30.11	764.8	30.16	766.1	65.0	18.3	78	s.	2	0.9		0	0			0	0	clear	H. C. Smyth.
New York, New York	29.70	754.4	29.88	758.9	55	12.8	69	w.	14	6.3		3 k	0	w.		0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.04	763.0	30.07	763.8	61	16.1	65	w.	4	1.8		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	26.89	683.0	29.76	755.9	52.6	11.4	78	ne.	3	1.3		0	4 s			0.07	1.8	fair	E. F. Brady.
Olympia, Washington T'y	30.32	770.1	30.36	771.1	44.0	6.7	93	s.	4	1.8			10 ks		w.	0.01	0.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.60	726.4	29.76	755.9	57.2	14.0	86	nw.	2	0.9			10 n			0.16	4.1	light rain	A. Pollak.
Ooglaamie, Alaska	29.74	755.4	29.76	755 9	21.5	— 5.8	100	sse.	9	4.0		6 k	2 s	sw.	sw.	inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.58	751.3	29.91	759.7	44.0	6.7	93	w.	6	2.7		0	4 k		nw.	0.62	15.7	fair	J. G. Linsley.
Palestine, Texas	29.52	749.8	30.07	763.8	60.5	15.8	82	s.	11	4.9		7 cs	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.16	766.1	30.19	766.8	58.3	14.6	74	nw.	3	1.3		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.85	758.2	29.95	760.7	55	12.8	86	w.	7	3.1		1 ck	0	w.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.74	450.6	29.80	756.9	16	— 8.9	87	w.	20	8.9		0	0			0.06	1.5	clear	H. Hall.
Pioche, Nevada	24 05	610.9	29.97	761.2	47.0	8.3	54	nw	8	3.6		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.27	743.4	30.07	763.8	47.5	8.6	82	sw.	6	2.7		0	0			0.02	0.5	clear	W. A. Reid.
Poplar River, Montana	27.66	702.6	29.78	756.4				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.32	744.7	30.00	762.0	47.0	8.3	68	sw.	2	0.9		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.62	752 3	29.67	753.6	53.0	11.7	86	n.	6	2.7			10 n		n.	0.45	11.4	light rain	W. W. Eichelberger
Portland, Oregon	30.30	769.6	30.37	771.4	44.3	6.8	83	s.	4	1.8			10 s		s.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					57	13.9	69	nw.	10	4.5		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.82	757.4	59.0	15.0	36	calm	0	0		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.70	754.4	29.73	755.1	54.5	12.5	86	sw.	7	3.1		0	9s;fg		nw.	0.03	0.8	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.15	765.8	30.16	766.1	61	16.1	62	n	8	3 6		6 c	0	w		0	0	fair	W. J. Evans.
Red Bluff, California	29.68	753.9	30.03	762.7	66	18.9	27	n.	20	8.9		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.29	744.0	29.95	760.7	49	9.4	77	w.	11	4.9		0	0			0.39	9.9	clear	E. W. McGaran.
Roseburg, Oregon	29.82	757 4	30.37	771.4	40.8	4.9	84	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.88	758.9	29.96	761.0	64.0	17.8	60	n.	8	3.6		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.43	747.5	30.02	762.5	56.0	13.3	80	se.	16	7.2		4 k	0			0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.96	761.0	29.99	761.7	30	— 1.1	100	sw.	3	1.3			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.82	732.0	29.66	753.4	55.5	13.1	86	s.	5	2.2		6 k	3 ks	w.	s.	0.02	0.5	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.66	728.0	29.52	749.8	50	10.0	100	nw	7	3.1			10 n			0.67	17.0	light rain	C. B Dilley
Salt Lake City, Utah	25.66	651.8	29.98	761.5	50.2	10.1	23	calm	0	0		0	6 ks		sw.	0	0	fair	J. Craig.
San Antonio, Texas	29.33	745.0	30.03	762.7	62	16.7	78	e.	1	0.4			9 s			0	0	cloudy	J. H. Davis.
San Diego, California	29.78	756.4	29.86	758.4	60.3	15.7	84	s.	2	0.9			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.84	757.9	29.88	758.9	56.0	13.3	69	w.	25	11.2		3 k	0	w.		0	0	clear	B. A. Blundon.
Sanford, Florida	30.12	765.0			62.5	16.9	89	nw.	4	1.8		0	fg.			0	0	clear	J. B. Marbury.
San Francisco, California	29.94	760.5	30.01	762.2	53	11.7	75	sw.	2	0.9		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.17	588.5	29.78	756 4	51	10.6	41	se.	5	2.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.09	764.3	30.18	766.6	59	15.0	65	n.	5	2.2		0	hz.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.27	667.2	29.87	758.7	45	7.2	71	sw.	10	4.5		9 k	0	w.		0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.85	758.2	30.09	764.3	61.0	16.1	84	s.	4	1.8		3 c	5 s	sw.	s.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.66	728.0	29.88	758.9	59	15.0	75	s.	12	5 4		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	30.17	766.3	30.23	767.8	42	5.6	83	e.	5	2.2			10 ks		e.	0.18	4.6	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.52	749.8	29.99	761.7	59.8	15.4	75	e.	2	0.9		10 cs	0	s.		0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.11	764.8	30.15	765.8	55	12.8	55	nw.	6	2.7		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.07	713 0	30.12	765.0	42	5.6	82	s.	6	2.7		2 ck	1 s	sw.		0.12	3.0	clear	John F. Hemenway.
Springfield, Illinois	29.34	745.2	30.01	762.2	56	13.3	62	s.	10	4.5		0	4 s		w.	0	0	fair	T. B. Jennings.
Springfield, Missouri	28.56	725.4	29.98	761.5	59	15.0	75	s.	10	4.5		6cs;ck	2 ks	w.	sw.	0	0	cloudy	J. H. Bryce.
Starkville, Miss	29.68	753.9	30.15	765.8	60	15.6	75	e.	5	2.2		3 c	0	nw.		0	0	clear	C. Dill.
Stevenson, Fort, Dakota	27.86	708.1	29.71	754.6	47	8.3	86	w.	6	2.7		7 ck	0	w.		inap.	inap.	fair	A. Schneider.
Stockton, Fort, Texas	20.88	682.7	29.89	759.2	60	15.6	72	se.	14	6.3		5 ck	0	se.		0	0	fair	A. J. Warren.
Thatcher's Island, Mass	29.68	753.9	29.73	755.1	58.4	14.7	86	n.	0	2.7			10s;fg			0.05	1.3	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.14	689.3	29.81	757.2	55	12.8	64	s.			1	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.36	745.7	30.04	763.0	52	11.1	52	w.	6	2.7		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.47	697.7	29.81	757.2	60	15.6	46	s.	1	0.4		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.94	760.5	29.96	761.0	40	4.4	73	n.	8	3.6		7 k	0	n.		0.01	0.3	fair	Samuel Applegate.
Verde, Fort, Arizona					58	14.4	34	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.91	759.7	30.16	766.1	56.0	13.3	72	se.	3	1.3		2 c	0			0	0	clear	James Kenealy.
Visalia, California	29.52	749.8	29.89	759.2	59.2	15.1	60	nw.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.30	618.7	29.84	757.9	35.0	1.7	69	w.	6	2.7		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.92	760.0	30.03	762.7	55.5	13.1	63	w.	6	2.7		0	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.92	658.4	29.76	755.9	51	10.6	74	n.	3	1.3		7 c	0	s.		0	0	fair	F. H. Brandenburg.
Williamsport, Pa	29.38	746.2	29.98	761.5	53	11.7	66	w.	11	4.9		0	0			0.03	0.8	clear	B. F. Hough.
Wilmington, N. Carolina	30.10	764.5	30.15	765.8	56	13.3	69	nw.	2	0.9		3 c	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.74	653.8	30.09	764.3	43	6.1	39	w.	3	1.3		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.50	723.9	29.78	756.4	50	10.0	77	nw.	6	2.7			10 s			0.20	6.6	cloudy	J. H. Atfield.
Yuma, Arizona	29.60	751.8	29.75	755.6	64.9	18.3	71	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			55.0	12.8	83	se.	4	1.8		4 k	4 ks	nw.	w.	0.05	1.3	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.06	763.5			65	nw.	2	0.9		0	1 s			0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	80	26.7	82	se.			2	4 c	5 k	e.	e.	0.080	17.3		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	78	25.6	89	calm			0		10 ks		calm	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79.5	26.4	89	ne.			1		10 ks		ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallof
Santiago de Cuba, W. I	30.02	762.5	30.05	763.3	81	27.2	74	calm	0	0		0	0			0	0		R. Mason.
York Factory, B. A.	29.87	758.7	29.93	760.2	33.5	0.8	95	sw.	18	8.0		1 c	0	sw.		0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, Corfu, Ionian Islands	30.13	765.3	67	19.4	50	calm			0		0							blue sky.
H. M. S. Dido, N. 14° 44′, W. 60° 30′	30.07	763.8	81	27.2		ne.			3		1	e.				1	ne.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.97	761.2	73	22.8	90	nnw.			4		4	nnw.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.17	766.3	69.5	20.8	82	nne.			2		9	sw.						misty.
H. M. S. Opal, Madeira Islands	30.03	762.7	68	20.0	90	calm			0		0							blue sky.
H. M. S Rocket, N. 42° 36′, W. 23° 30′	30.00	762.0	62	16.7	94	e.			2		3							d. clouds.
H. M. S. Tyne, N. 19° 01′, W. 64° 50′	30.11	764.8	80	26.7	82	e.			5		2					2	e.	d. clouds.
H. M. S. Tenedos, Halifax, N. S	29.79	756.7	50	10.0	93	ssw.			1		7	sse						misty.
U. S. Navy Yard, Pensacola, Fla	30.14	765.5	63	17.2	62	n.	2	0.9			0			0	0			clear.
U. S. Navy Yard, Portsmouth, N. H*	29.66	753.4	54	12.2	86	calm	0	0			10		w.	0.3	8.			misty.
U. S. S. Alliance, Norfolk, Va	30.05	763.3	57	13.9	81	wsw.			1		0			0	0			clear.
U. S. S. Colorado, New York, N. Y	29.83	757.7	56	13.3	63	w.	9	4.0			5		w.	0	0			cloudy.
U. S. S. Franklin, Norfolk, Va	30.04	763.0	58	14.4	82	wnw.	8	3.6			0			0	0			clear.
U. S. S. Jamestown, Newport, R.I*†	29.78	756.4	51	10.6	86	wsw.			3		2							fair.
U. S. S. Kearsarge, New York, N. Y	29.89	759.2	56	13.3	81	wnw.			4		2		nw.					fair.
U. S. S. Lancaster, Kronstadt, Russia	29.59	751.6	57	13.9	69	ese.			5		10		se.			sm'h		squally.
U. S. S. Michigan, Erie, Pa	29.99	761.7	55	12.8	50	wsw.			2		0							clear.
U. S. S. Minnesota. New York, N. Y	29.87	758.7	55	12.8	74	w.			4		5		w.					fair.
U. S. S. New Hampshire, Newport, R.I	29.74	755.4	54	12.2	87	sw.			2		5		sw.			sm'h		fair.
U. S. S. Portsmouth, Newport, R.I	29.82	757.4	52	11.1	93	wsw.			3		2		nw.					clear.
U. S. S. Powhatan, N. 21° 33′ W 84° 55′	30.06	763.5	81	27.2	87	ne.			4		5					long	n.	fair.
U. S. S. Quinnebaug, Sierra Leone, Africa	29.97	761.2	83	28.3	82	wsw.			1–2		5		wsw.			sm'h		fair.
U. S. S. Saratoga, New York, N. Y	29.89	759.2	55	12.8	87	w.			3		5?		w.	0	0	sm'h	w.	cloudy?
U. S. S. St. Louis, League Island, Pa	29.94	760.5	58	14.4	64	wnw.	12.2	5.5			2		nnw.	0	0			clear.
U. S. S. Swatara, N. 24° 24′, W. 82° 29′†	30.09	764.3	75	23.9	68	ne.			3		5		n.	0	0	sm'h		fair.
U. S. S. Tennessee, New York, N. Y	29.89	759.2	61	16.1	55	nw.	20	8.9			2		nnw.	0	0			clear.
U. S. S. Vandalia, New York, N. Y	29.84	757.9	56	13.3	81	nnw.			5		5		wnw.					fair.
U. S. S. Wabash, Boston, Mass	29.72	754.9	55	12.8	87	nw.	7	3.1			8		nw.	0.08	2.0			cloudy.
U. S. S. Yantic, New York, N. Y	29.86	758.4	58	14.4	82	wnw.			4		5							fair
Commewyne, N. 43° 38′, W. 30° 02′	30.06	763.5	60	15.6	82	wnw.			2		10							d. clouds.
S. S. British Crown, N. 41° 56′, W. 48° 11′†	30.23	767.8	68	20.0		sw.			4		10?		sw;nw.			sm'h		clear?
S. S. Illinois, N. 45° 12′, W. 37° 00′			58	14.4		nnw.			3		9		n.			sm'h	nw.	cloudy.
S. S. Lord Gough, N. 44° 55′, W. 56° 40′	29.91	759.7	46	7.8		s.			3		10		s.	2 h'r	2 h'r	mod	sw.	foggy.
S. S. Ohio, Delaware river†	30.12	765.0	60	15.6	82	w.			3		5?		w.	0	0	sm'h	n.	clear?
S. S. Pennsylvanian, N. 51° 40′, W. 8° 15′†	30.18	766.6	59	15.0		sw.			2		10?		sw.			sm'h	nw.	fair?
S. S. Circassian, N. 46° 22′, W. 51° 10′	30.13	765.3	37	2.8	100	e			5		9			0	0	3	e.	hazy.
S. S. Grecian, N. 55° 33′, W. 5° 02′	29.93	760.2	56	13.3	87	s.			3		0			5 h'r	5 h'r	sm'h		clear.
S. S. Nova Scotian, N. 44° 34′, W. 45° 34′	30.20	767.1	55	12.8		nw.			3		5		w.			sm'h		hazy.
S. S. Polynesian, off Three rivers, Canada	29.84	757.9	49	9.4		calm			0		10		ene.	0	0			overcast.
S. S. Manitoban, Montreal, Canada	29.88	758.9	48	8.9	78	nnw.			4		5?		n.	0	0			clear?
S. S. Scandinavian, N. 55° 29′, W. 11° 56′*	29.71	754.6	52	11.1		s.			4		10					light	s.	drizzling.
S. S. Alene, N 35° 02′, W. 73° 45′†	30.05	763.3	66	18.9		w.			4		1		w.	0	0	con.	sw.	fine.
S. S. Ailsa, Kingston, Jamaica, W. I			79	26.1														
S. S. Bolivia, N. 50° 26′, W. 29° 45′ *†	30.04	763.0	56	13.3		wsw.			3		10		nne.	driz.	driz.	sm'h	ne.	overcast.
S. S. Dorian, N. 41° 20′ W. 52° 50′	30.15	765.8	66	18.9		n.			4		10		sw.	6 h'r	6 h'r	sl't	sw.	cloudy
S. S. Furnessia, New York, N. Y†	29.92	760.0	64.6	18.1	92	w.			2		4		w.	0	0			fair.
S. S. Llandaff City, New York, N.Y†	29.88	758.9	55	12.8		w.			6		3			0	0			clear.
S. S. Marathon, Fiume, Austria	30.08	764.0	74	23.3		e.			1		5?		e.	0	0	sm'h	ene.	cloudy?
S. S. Pavonia, N. 46° 57′ W. 38° 27′	30.01	762.2	57	13.9	87	wsw.			5		5?		nnw.	12 h'r	12 h'r	mod.	nne.	cloudy?
S. S. Scythia, N. 50° 31′, W. 18° 32′	29.92	760.0	60	15.6	94	w.			4		2		wsw.	4 h'r	4 h'r	mod.	wsw.	clear.
S. S. Colina, N. 50° 39′, W. 38° 04′ †	30.04	763.0				wnw.			5		7		nw.	0	0	mod	nnw.	cloudy.
S. S. Canada, N. 47° 58′, W. 25° 40′	29.88	758.9	53.6	12		sw.			3	ck	0	sw.		0	0	sm'h	sw.	covered.
S. S. Ville de Marseilles, St. Thomas, W.I			79	26.1		ne.			3		3		ne.	sh'rs	sh'rs	sm'h		fair.
S. S. Abyssinia, N. 46° 17′, W. 38° 00′	30.05	763.3	55	12.8		n.			5		5		n.	3 h'r	3 h'r	sm'h		misty.
S. S. Wisconsin, N. 40° 53′, W. 63° 41′	29.73	755.1	58	14.4		sw.			1		4		w.			mod.	s.	fine.
S. S. Bohemia, N. 49° 46′, W. 8° 00′						w.			3		8		w.	0	0		nw.	hazy.
S. S. Gellert, Hamburg, Germany			67	19.4	89	w.			2		1		w.	0	0			clear.
S. S. Rugia, N. 53° 54′, E. 8° 36′	30.07	763.8	65	18.3		wnw.			3		1		nw.	0	0			hazy.
S. S. Silesia, Porto Cabello, Venezuela	29.98	761.5	78.5	25.8		e.			2		4		ne.	0	0			fair.
S. S. Westphalia, N. 47° 16′, W. 33° 59′	30.11	764.8	53	11.7	93	n.			6		10		nne.	9 h'r	9 h'r	mod.	n.	misty.
S. S. City of Paris, N. 51° 04′, W. 13° 56′						sw.			5				sw.	0	0	mod.	sw.	squally.
S. S. Virginian, N. 51° 11′, W. 11° 04′ *	30.01	762.2	58	14.4		wsw.			4		10		nw.	0	0	sm'h		cloudy.
S. S. Archimedes, N. 11° 36′, W. 49° 17′	29.93	760.2				ne.			5		3		ne.	0	0	mod.	ne.	clear.
S. S. Colorado, Key West, Fla†	30.15	765.8	75	23.9		nne.			2		1		nne.	0	0			clear.
S. S. Rio Grande, N. 37° 48′, W. 74° 34′*†	29.98	761.5	58	14.4		wnw.			3		1		nw.	0	0	sl't	e.	clear.
S. S. San Marcos, N. 27° 56′, W. 91° 15′	30.00	762.0	71	21.7		ese.			4				se.			mod.		clear.
S. S. Chalmette, New York, N.Y†	29.90	759.4	55	12.8		nw.			4		1			0	0			clear.
S. S. New York, N. 38° 10′, W. 74° 30′ *†	29.98	761.5	55	12.8		w.			5		2		w.			mod.	e.	clear.
S. S. Alleghany, Baltimore, Md			50	10.0		nw.			7		2		w.	0	0			clear.
S. S. Archimede, N. 35° 43′ W. 8° 51′†	30.17	766.3	70	21.1	70	ene.			2		5		sw.	0	0	sm'h	wnw.	fair.
S. S. City of Washington, N. 21° 20′, W. 89° 38′ †	30.13	765.3	79	26.1		se.			4		5		se.	0	0	sm'h		fair.
S. S. Denmark, London, Eng †	30.03	762.7	74	23.3		sw.			3		2			0	0			clear.
S. S. Egypt, N. 52° 04′ W. 7° 33′*†	30.15	765.8	50	10.0		sw.			4		5		sw.	0	0	mod.	sw.	fair.
S. S. England, off Liverpool, Eng	30.04	763.0	55	12.8		sw.			2		8		sw.	0	0			cloudy.
S. S. Greece, N. 50° 00′, W. 4° 00′*	30.08	764.0	64	17.8	73	var.					1		n.			sm'h	nw.	clear.
S. S. Helvetia, N. 40° 28′, W. 47° 33′	30.26	768.6	72	22.2	90	sw.			1		5		sw.	0	0	sl't	sw.	fair.
S. S. Holland, N. 40° 59′, W. 47° 51′	30.16	766.1	70	21.1		sw.			3		8		s.	0	0	sm'h	w.	cloudy.
S. S. The Queen, N. 40° 44′, W. 54° 44′	30.03	762.7	73	22.8	85	ssw.			4		10		ssw.			mod.	ssw.	misty.
S. S. America, N. 41° 16′, W. 64° 36′ *	29.83	757.7	51.0	10.6	89	calm			0		9			0	0	long	sw.	cloudy.
S. S. Braunschweig, off Isle of Juist, North Sea	30.05	763.3	62.0	16.7	77	wnw.			3		1		nw.	0	0	sm'h	nw.	clear.
S. S. Donau, N. 43° 12′, W. 42° 54′	30.20	767.1				wnw.			4		8		wnw.	0	0	mod.	wnw.	cloudy.
S. S. Elbe, N. 49° 40′, W. 9° 36′	30.17	766.3	59	15.0	82	s.			2–3		5		s.	0	0	sm'h	s.	fair.
S. S. Fulda, N. 40° 05′, W. 66° 13′	29.84	757.9	54	12.2	93	wnw.			1		1		wnw.	0	0	mod.	s.	clear.
S. S. Hohenstaufen, N. 49° 31′, W. 20° 03′	29.91	759.7				ssw.			5–6		6		ssw.	0	0	sm'h		fair.
S. S. Oder, N. 41° 03′, W. 67° 19′	29.82	757.4	47.3	8.5		sw.			3–4		6		sw.	1 h'r	1 h'r	mod.	sse.	fair.
S. S. Ohio, N. 52° 19′, E. 2° 52′	30.14	765.5				w.			3		2		w.	0	0	sm'h	w.	clear.
S. S. Strassburg, N. 38° 56′, W. 68° 42′	29.93	760.2	61.5	16.4	?	wsw.			4		9		w.	0	0	3	wsw.	cloudy.
S. S. Werra, N. 42° 14′, W. 61° 56′	29.82	757.4	50	10.0		ssw.			2–3		10		sw.	2 h'r	2 h'r	mod.	sw.	cloudy.
S. S. Orinoco. Bermuda Islands, Atlantic ocean*†	30.12	765.0	74	23.3		sw.			3		10		sw.	0	0			cloudy.
S. S. Colon, Aspinwall, Panama †	29.88	758.9	81	27.2		n.			3		10			20 h'r	20 h'r	sm'h	nw.	overcast.
S. S. City of Augusta, New York, N.Y†	29.83	757.7				nw.			6		8		nw.	0	0			cloudy.
S. S. Belgenland, N. 46° 15′, W. 31° 00′ †	30.12	765.0	60	15.6	88	sw.			4		10		sw.	1½h'r	1½h'r	sm'h	w.	foggy.
S. S. Nederland, N. 41° 02′, W. 48° 23′ *†	30.27	768.8	67	19.4		sw.			4		8		sw.	0	0	mod.	ssw.	cloudy.
S. S. Rhynland, Jersey City, N. J	29.74	755.4	58	14.4	100	wsw.			6		2		w.	0	0			clear.
S. S. Pennland, N. 40° 28′ W. 69° 33′			70	21.1	85	sw.			6		3		sw.	2 h'r	2 h'r	high	sw.	fair.
S. S. Waesland, N. 51° 04′, E. 1° 12′	30.16	766 1	62	16.7		sw.			3		5		sw.	0	0	light	sw.	dense fog.
S. S. P. Caland, N. 47° 14′, W. 27° 05′	30.01	762.2	59	15.0	89	w.			3		7		w.			1	w.	fair.
S. S. Leerdam, N. 40° 30′, W. 68° 53′	29.83	757.7	52	11.1	93	sw.			4		2		sw.			mod.	se.	clear.
S. S. W. A. Scholten, N. 45° 34′, W. 32° 23′	30.03	762.7	58.2	14.6	94	sw.			4		8		sw.	2 h'r	2 h'r	sm'h	sw.	cloudy.
S. S. Zaandam, N 41° 30′, W. 64° —	29.91	759.7	63.5	17.5	82	sw.			2	3.ck	0	sw.		2 h'r	2 h'r	3	sw.	
S. S. Claudius, N. 40° 00′, W. 52° 35′ †	30.27	768.8	68.0	20.0	92	sw.			4		10			rain	rain	long	sw.	misty.
S. S. Valencia, La Guayra, Venezuela †	30.14	765.5	82	27.8	83	ne.			4		6		ne.	3 h'r	3 h'r	mod.	ne.	fair.
S. S. State of Florida, New York, N. Y	29.97	761.2	55	12.8		n.			4		7		nw.	0	0			fair.
S. S. State of Nebraska, N. 47° 40′, W. 36° 20′*†	30.04	763.0	49	9.4		nne.			6		8		n.	0	0	sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. S. State of Nevada, Glasgow, Scotland †	29.83	757.7	52	11.1	.....	w.	.....	.....	6	.....	1	.....	wsw.	0	0	.....	.....	clear.
S. S. Marengo, Boston, Mass†	29.79	756.7	57	13.9	.....	w.	.....	.....	3	.....	5	.....	.....	1 h'r	1 h'r	.....	.....	
S. S. Dominion, N. 47° 32′, W 47° 20′*†	30.19	766.8	50	10.0	.....	ne.	.....	.....	2	.....	10	.....	ne.	.....	.....	light	ne.	cloudy.
S. S. Toronto, N. 49° 33′, W. 46° 10	30.16	766.1	43	6.1	.....	sse.	.....	.....	2	.....	4	.....	se.	0	0	sm'h	.....	fair.
S. S. Lake Huron, N. 54° 26′, W. 26° 57′	29.76	755.9	48	8.9	.....	w.	.....	.....	4	.....	8	.....	wsw.	6 h'r	6 h'r	long	nw.	cloudy.
S. S. Lake Manitoba, N. 49° 30′, W. 43° 00′	30.15	765.8	48	8.9	.....	n	.....	.....	4	.....	3	.....	n.	0	0	mod.	w.	clear.
S. S. Plantyn, N. 49° 08′, W. 16° 54′	29.96	761.0	.....	.....	.....	.....	.....	.....	3	.....	1	.....	se.	0	0	mod.	s.	clear
S. S. Norman, N. 42° 20′, W. 70° 43′	29.67	753.6	.....	.....	.....	wsw.	.....	.....	1	.....	10	.....	sw.	light	light	sm'h	.....	cloudy.
S. S. Saxon, N. 41° 08′, W. 71° 25′ †	29.75	755.6	.....	.....	.....	w.	.....	.....	6	.....	8	.....	nw.	0	0	.....	.....	cloudy.
S. S. Adriatic, N. 40° 38′, W. 69° 51′*†	29.88	758.9	51	10.6	93	sw.	.....	.....	5	.....	1	.....	sw.	0	0	mod.	sw.	clear.
S. S. Baltic, N. 45° 56′, W. 41° 20′*	30.14	765.5	54	12.2	?	e.	.....	.....	5	.....	8	.....	e.	0	0	mod.	e.	cloudy.
S. S. Celtic, N. 44° 59′, W. 40° 45′†	30.16	766.1	57	13.9	.....	ene.	.....	.....	4	.....	8	.....	ene.	0	0	sm'h	.....	cloudy.
S. S. Antonio Lopez, Santander, Spain	30.04	763.0	66.5	19.2	74	ne.	.....	.....	4	.....	3	.....	.....	0	0	.....	.....	clear.
Schr. Abbie H Gheen, Mayport, Fla†	30.14	765.5	66	18.9	.....	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	.....	clear.
Bg. Abbie Clifford, N. 32° 48′, W. 69° 36′†	30.00	762.0	72	22.2	.....	w.	.....	.....	4	.....	5	.....	w.	3 h'r	3 h'r	mod.	w.	fair.
Bk. Alpha, N. 49° 50′, W. 28° 40′*†	29.92	760.0	48	8.9	.....	n.	.....	.....	6	.....	10	.....	ne.	4 h'r	4 h'r	sm'h	.....	raining.
Bg. Alcira, Maracaybo, Venezuela	29.93	760.2	82	27.8	.....	e.	.....	.....	1	.....	7	.....	w.	0	0	.....	.....	fair.
Bk. Adelaide, N. 8° 16′, W. 32° 31′ *†	30.00	763.5	82	27.8	.....	ene.	.....	.....	4	.....	2	.....	ese.	0	0	light	var.	hazy.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.19	766.8	85	29.4	.....	ene.	.....	.....	2	.....	2	.....	e.	2 h'r	2 h'r	.....	.....	clear.
Schr. Arthur Burton, St. Simons Island, Ga*†	30.04	763.0	.....	.....	.....	n.	.....	.....	1	.....	1	.....	nne.	0	0	.....	.....	fine.
Bk. Aureola, N. 24° 58′, W 60° 45′†	30.13	765.3	85	29.4	.....	e.	.....	.....	4	.....	4	.....	e	0	0	mod.	ene.	clear.
Bk. Achille F., N. 2° 30′, W. 26° 15′†	29.99	761.7	76	24.4	98	wsw.	.....	.....	1	.....	10	.....	s.	6 h'r	6 h'r	long	s.	drizzling.
Bk. Arda, Holmes' Hole, Mass.	29.90	759.4	.....	.....	.....	ssw.	.....	.....	3	.....	2	.....	ssw.	0	0	sm'h	.....	clear.
Bg. Annie R. Storer, N. 32° 20′, W. 73° 20′†	30.14	765.5	.....	.....	.....	nw.	.....	.....	3	.....	6	.....	wnw.	0	0	long	w.	fair.
Bgt. Achsah, N. 15° 25′, W. 61° 43′†	30.01	762.2	83	28.3	.....	ne.	.....	.....	2	.....	2	.....	ene.	1 h'r	1 h'r	mod.	ene.	clear.
S. S. Burswell, Malta, Mediterranean*†	30.25	768.3	79	26.1	.....	calm	.....	.....	0	.....	3	.....	nw.	0	0	sm'h	.....	fine.
Bg. Belle of the Bay, N. 23° 53′, W. 81° 25′†	30.10	764.5	.....	.....	.....	nne.	.....	.....	4	.....	8	.....	n.	0	0	sm'h	ne.	overcast.
Bk. Champion, N. 28° 05′, W. 69° 35′	.....	.....	78	25.6	86	wsw.	.....	.....	1	.....	8	.....	n.	2 h'r	2 h'r	g'tle	nw.	cloudy.
Schr. C. R. Flint, N. 38° 00′, W 73° 59′*†	29.95	760.7	56	13.3	.....	w.	.....	.....	5	.....	2	.....	wnw.	0	0	rg'h	ssw.	fair.
Bk. Childwall, N. 33° 13′, W. 34° 20′	.....	.....	65	18.3	.....	n.	.....	.....	4	.....	4	.....	n.	0	0	mod.	ne	fine.
Schr. Clotilde, N. 25° 37′, W. 78° 27′ *†	30.10	764.5	80	26.7	.....	ese.	.....	.....	2	.....	2	.....	se.	0	0	.....	.....	clear.
Schr. Criterion, N. 59° 10′, W. 10° 40′*†	29.50	749.3	.....	.....	.....	w.	.....	.....	4	.....	10	.....	wsw.	sh'rs	sh'rs	mod.	w.	heavy rain.
S. David Steward, N. 31° 36′, W. 49° 14′ †	30.19	766.8	.....	.....	.....	s.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S.S.D. J. Foley, N. 23° 33′, W. 74° 22′ *†	30.20	767.1	79	26.1	86	n.	.....	.....	1	.....	2	.....	n.	0	0	sm'h	.....	clear.
Bkt. David A. Preston, N. 19° 00′, W. 73° 45′	.....	.....	88	31.1	.....	e.	.....	.....	2	.....	4	.....	e.	0	0	sm'h	.....	
Schr. Edith R. Seward, N. 15° 52′, W. 82° 30′†	30.14	765.5	91	32.8	.....	ne.	.....	.....	1	.....	3	.....	ese.	0	0	mod.	e.	clear.
S. E. J. Spicer, Liverpool, Eng	30.01	762.2	61	16.1	.....	wnw.	.....	.....	5	.....	10	.....	wnw.	0	0	.....	.....	overcast.
Bk. E. D. Bigelow, N. 44° 17′, W. 41° 54′ *†	30.05	763.3	70	21.1	.....	n.	.....	.....	2	.....	8	.....	.....	½h'r	½h'r	mod.	nw.	cloudy.
U. S. Fish. Com. S. S. Fish Hawk, Glymont, Md†	30.13	765.3	61	16.1	88	wnw.	.....	.....	2	.....	2	.....	ese.	0	0	.....	.....	clear.
H. P. M. S. Rio Lima, Porto Prayao, Cape Verd Ids	.....	.....	82.4	28.0	75	nne.	.....	.....	4	.....	0	.....	.....	.....	.....	3	.....	blue sky.
Schr. F. E. McDonald, N. 28° 28′, W. 79° 00′†	30.14	765.5	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	clear.
Bk. George Davis, N. 42° 51′ W. 41° 30′	.....	.....	.....	.....	.....	wnw.	.....	.....	5	.....	.....	.....	nw.	1 h'r	1 h'r	.....	wnw.	covered.
Bk. Gronsaver, N. 24° 00′, W. 61° 40′†	30.15	765.8	78.4	25.8	.....	ene.	.....	.....	4	.....	5	.....	e.	½h'r	½h'r	sm'h	.....	fair.
Bk. Galeon, N. 20° 49′ W. 90° 33′ †	30.03	762.7	77	25.0	.....	e.	.....	.....	3	.....	8	.....	.....	0	0	mod.	se.	blue sky.
S. Hedwig, N. 39° 44′, W. 22° 34′	29.91	759.7	60.1	15.6	96	ene.	.....	.....	2	.....	8	.....	var.	8 h'r	8 h'r	3	ese.	drizzling.
Bk. Hattie G. McFarland, Port Royal, S. C*†..	30.05	763.3	61	16.1	.....	n.	.....	.....	1	.....	2	.....	nw.	0	0	.....	.....	
Bk. John H. Pearson, N. 25° 53′, W. 21° 27′	.....	.....	.....	.....	.....	n.	.....	.....	1	.....	.....	.....	nw.	0	0	long	n.	clear.
Schr. Isabel Alberto, Jersey City, N. J†	29.90	759.4	.....	.....	.....	wnw.	.....	.....	4	.....	3	.....	nw.	0	0	.....	.....	fair.
Bk. Cato, N. 58° 36′, W. 10° 04′*†	29.62	752.3	.....	.....	.....	wsw.	.....	.....	4	.....	5	.....	wsw.	0	0	long	wsw.	foggy.
Bk. Johanne, N. 41° 13′ E. 2° 16′*†	30.17	766.3	70	21.1	.....	s.	.....	.....	2	.....	1	.....	se.	3 h'r	3 h'r	sm'h	.....	hazy.
Schr. John L. Thomas, N. 36° 00′, W. 74° 50′*†	30.18	766.6	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	mod.	ese.	clear.
Bg. John Wesley, N. 32° 28′, W. 75° 04′*†	30.06	763.5	.....	.....	.....	nw.	.....	.....	4	.....	5	.....	nw.	0	0	mod.	nw.	fair.
Schr. Jennie N. Huddell, N. 36° 40′, W. 75° 39′†	30.08	764.0	60	15.6	82	nnw.	.....	.....	3	.....	0	.....	.....	0	0	short	se.	clear.
Bkt. Josephine, N. 29° 43′, W. 68° 03′†	30.09	764.3	77	25.0	77	sw.	.....	.....	3	.....	10	.....	.....	1 h'r	1 h'r	mod.	sw.	cloudy.
Schr. Leonessa, N. 37° 30′, W. 76° 16′†	30.00	762.0	.....	.....	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. L. & W. Armstrong, N. 35° 50′, W. 71° 12′*†	30.06	763.5	.....	.....	.....	wnw.	.....	.....	3	.....	4	.....	w.	0	0	sm'h	wsw.	fine.
Light House Tender, Laurel, Pensacola Bay, Fla†	30.17	760.3	63	17.2	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	78	25.6	.....	e.	.....	.....	2	.....	9	.....	e.	0	0	.....	.....	cloudy.
Bk. Milo, N. 48° 47′, W. 18° 29′†	30.00	762.0	.....	.....	.....	wsw.	.....	.....	3	.....	.....	.....	.....	.....	.....	short	n.	hazy.
S. S. Madrid, Cartagena, Spain†	30.24	768.1	70	21.1	80	var.	.....	.....	2	.....	fg.	.....	.....	0	0	.....	.....	fair.
Schr. Minnie A. Bonsall, Hoboken, N. J†	29.85	758.2	59	15.0	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bkt. Kryolith, N. 60° 25′ W. 50° 60′ *†	29.96	761.0	.....	.....	.....	nw.	.....	.....	5	.....	5	.....	nw.	snow	snow	.....	.....	
Bk. Matilda C. Smith, N. 40° 18′, W. 54° 44′ †	30.14	765.5	.....	.....	.....	s.	.....	.....	5	.....	0	.....	s.	0	0	sm'h	s.	threatening.
Bgt. Myrtle, N. 29° 20′, W. 59° 24′*†	30.32	770.1	.....	.....	.....	sse.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Matthias, N. 40° 42′, W. 35° 09′*†	30.33	770.4	62	16.7	.....	nne.	.....	.....	2–3	.....	5	.....	n.	1 h'r	1 h'r	long	ene.	fair.
S.S. Mendoza, N. 25° 12′, W. 03° 57′	.....	.....	.....	.....	.....	se.	.....	.....	2	.....	.....	.....	se.	0	0	sm'h	se.	clear.
Schr. Maud Briggs, N. 13° 28′, W. 58° 36′	.....	.....	.....	.....	.....	e.	.....	.....	6	.....	3	.....	e	1 h'r	1 h'r	sm'h	e.	clear.
Bk. Ottawa, N. 39° 02′, W. 35° 03′ *	30.10	764.5	62	16.7	.....	n.	.....	.....	4	.....	5	.....	nne.	3 h'r	3 h'r	r'gh	ene.	fair.
S. S. Raleigh, N. 37° 40′, W. 74° 00′†	30.03	762.7	64	17.8	.....	wsw.	.....	.....	4	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Rebus, N. 53° 56′, E. 6° 53′	29.97	761.2	50	10.0	.....	wsw.	.....	.....	2	.....	1	.....	wsw.	0	0	sm'h	.....	hazy.
Bg. Rising Sun, N. 39° 25′, W. 72° 35′*†	29.95	760.7	59	15.0	.....	wnw.	.....	.....	4	.....	9	.....	w.	0	0	mod.	w.	
Bk. Rosalie Saint John, Antigua, W. I*†	30.10	764.5	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	e.	¼ h'r	¼ h'r	.....	.....	clear.
Bk. Rosino, N. 39° 00′, W. 71° 25′	.....	.....	68	20.0	.....	w.	.....	.....	5	.....	.....	.....	w.	4 h'r	4 h'r	mod.	w	cloudy.
Bk. Scud, N. 31° 05′, W. 58° 12′*†	30.22	767.6	76	24.4	.....	sse.	.....	.....	4	.....	4	.....	sse.	0	0	sm'h	.....	clear.
Bk. Southern Belle, N. 35° 25′, W. 12° 40′†	30.08	764.0	68	20.0	.....	se.	.....	.....	4	.....	2	.....	s.	0	0	mod.	nw.	fair.
S. St. Francis, N. 44° 00′ W. 38° 30′	.....	.....	62	16.7	83	nne.	.....	.....	4	.....	8	.....	n.	5 h'r	5 h'r	sm'h	w.	cloudy.
S. S. Strathleven, N. 38° 39′, W. 64° 33′	29.82	757.4	68.5	20.3	93	sw.	.....	.....	7	.....	7	.....	ssw.	2 h'r	2 h'r	5	sw.	d. clouds.
Bgt. Sunlight, N. 19° 00′, W. 61° 25′	.....	.....	.....	.....	.....	e.	.....	.....	5	.....	0	.....	e.	1 h'r	1 h'r	mod.	e.	fair.
Bg. Teneriffe, N. 28° 40′, W. 74° 20*..	30.08	764.0	.....	.....	.....	nw.	.....	.....	2	.....	1	.....	.....	.....	.....	mod	.....	
Bk. Tuck Sing, N. 20° 35′, W. 72° 35′ *†	30.04	763.0	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	e.	0	0	sm'h	.....	fine.
Bk. Usko, N. 41° 47′, W. 27° 51′*	29.99	761.7	60	15.6	.....	nne.	.....	.....	3	.....	2	.....	nne.	0	0	mod.	nne.	fair.
Schr. Viola Reppard, N. 41° 51′, W. 69° 53′ †	29.82	757.4	58	14.4	.....	sw.	.....	.....	3	.....	5	.....	sw.	0	0	long	sse.	fair.
Bkt. Wandering Jew, N. 33° 13′, W. 71° 30′†.	30.10	764.5	70	21.1	.....	w.	.....	.....	0	.....	4	.....	w.	0	0	long	sw.	clear.
Bk. Winifred, N. 34° 16′, W. 72° 15′ *†	30.05	763.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	wnw.	0	0	r'gh	w.	d. clouds.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay *†	30.06	763.5	59.5	15.3	91	sw.	.....	.....	3	.....	9	.....	.....	.....	.....	2	ssw.	d. clouds.
H. M. S. Boadicea, Cape Town, Cape Colony	29.86	758.4	64	17.8	94	nnw.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.85	758.2	57	13.9	94	ssw.	.....	.....	4	.....	8	sw.	.....	.....	.....	.....	.....	squally.
H. M. S Thetis, S. 11° 18′ W. 24° 08′	30.08	764.0	75	23.9	86	e.	.....	.....	4	.....	0	.....	.....	.....	.....	2	sse.	d clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.84	757.9	59	15.0	94	ssw.	10	4.5	.....	.....	8	.....	ssw.	0	0	long	ssw	cloudy.
U. S. S. Galena, Montevideo, Uruguay*	29.83	757.7	59	15.0	94	ssw.	.....	.....	3	.....	8	.....	ssw.	.....	.....	mod.	ssw.	cloudy.
May Hulse, S. 39° 34′, W. 34° 48′	29.94	760.5	49	9.4	93	n	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Hevelius, S. 35° —′, W. 55° 00′†	29.82	757.4	60	15.6	.....	sw.	.....	.....	5	.....	fg.	.....	.....	3 h'r	3 h'r	.....	.....	foggy.
Bk. Alpheus Marshall, S. 35° 29′, E. 18° 29′*†	29.79	750.7	.....	.....	.....	nw.	.....	.....	4	.....	0	.....	.....	0	0	str'g	sw.	hazy.
Bk. Horace Scudder, S. 7° 51′, —. 0° 00′*†	30.08	764.0	78	25.6	.....	sse.	.....	.....	4	.....	2	.....	se.	0	0	mod.	s.	clear.
S. Mt. Washington, S. 8° 44′, W. 33° 00′*†	30.11	764.8	80	26.7	91	w.	.....	.....	3	.....	10	sse.	sw.	4 h'r	4 h'r	short	sse.	cloudy.
S. Minnie N. Gerow, S. 35° 40′, W. 7° 00′†	29.62	752.3	57	13.9	.....	wsw.	.....	.....	8	.....	10	.....	w.	0	0	h'vy	w.	squally.
S. Paramita, S. 7° 54′, W. 32° 42′†	29.97	761.2	82	27.8	.....	var.	.....	.....	2	.....	4	.....	var.	3 h'r	3 h'r	small	sse.	fair.
S. Wm. McGilvery, S. 4° 15′, W. 32° 45′ *†	30.05	763.3	83	28.3	83	sse.	.....	.....	3	.....	9	.....	se.	0	0	gr'd	ssw.	cloudy.
S. S. Hernrod, S. 22° 22′, W. 39° 45′ †	29.92	760.0	78.8	26.0	.....	nw.	.....	.....	7	.....	4	.....	nw.	0	0	r'gh	nw.	fair.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.73	755.1	69	20.6	85	e.	.....	.....	3	.....	10	e.	.....	.....	.....	.....	.....	drizzling.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Champion, N. 3° 00′, E. 110° 00′	29.74	755.4	83	28.3	100	ese.			2		4							d. clouds.
H. M. S. Sappho, N. 13° 28′, W. 89° 46′	29.93	760.2	82	27.8	100	nw.			1		5	se.				4	ssw.	d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 25′	29.77	756.1	57	13.9	87	nw.			1		4	nw.						d. clouds.
H. M. S. Magpie, N. 10° 23′, E. 117° 55′	29.84	757.9	84.5	29.2	79	calm			0		1					2	sw.	blue sky.
H. M. S. Swiftsure, Esquimalt, V. Id			49	9.4	78	w.			3-5		8	wsw.						squally.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.83	757.7	71	21.7	71	sw.			1		0							blue sky.
H.P. M. S. Tamega, Hong Kong, China	29.82	757.4	83.3	28.5	81	e.			2		9			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.91	759.7	62.5	16.9	83	e.			2		0			0	0			clear.
U. S. S. Adams, Juman, Alaska †	30.20	767.1	44	6.7	92	calm			0		10					sm'h		cloudy.
U. S. S. Hartford, N. 18° 00′, W. 153° 00′*	30.03	762.7	75	23.9	86	ne.			5		1		ne.	0	0	sm'h	ne.	clear.
U. S. S. Monocacy, Roze Island, Corea	29.80	756.9	65	18.3	84	nw.			1		8		ese.					misty.
U. S. S. Palos, Hong Kong, China	29.70	754.4	81	27.2	87	s.			1		5		se.					fair.
U. S. S. Richmond, Hong Kong, China*	29.69	754.1	83	28.3	87	se.			1		5		se.	0	0			fair.
S. S. Mexico, N. 34° 21′, W. 120° 01′ †	29.87	758.7	61	16.1	82	sw.			2		fg.					mod.	nw.	foggy.
S. S. Coptic, N. 34° 52′, E. 139° 54′	29.83	757.7	66.5	19.2	56	sw.			2		8		sw.	0	0	sm'h		cloudy.
S. S. Oceanic, N. 24° 49′, E. 119° 17′*	29.77	756.1	81	27.2	83	ssw.			4		3		wsw.			2	ssw.	clear.
S. S. City of Chester, off Point Arenas, Cal †	30.11	764.8	49	9.4	85	nw.			6		hz.			0	0	long	nw.	
S. S Oregon, Portland, Oregon †	30.34	770.6	45	7.2	92	calm			0		8		nw.					cloudy.
S. S. Willamette, Seattle, Wash. Ter*†	30.41	772.4	54	12.2	87	calm			0		3		ssw.	0	0			clear.
S. S. Dakota, Tacoma, Wash. Ter †	30.31	769.9	49	9.4	85	e.			2		8		e.	0	0	sm'h		cloudy.
S. S. Queen of the Pacific, Columbia river Oregon †	30.36	771.1				calm			0		2			0	0			clear.
S. S. City of Pekin, N. 47° 40′, W. 165° 15′ †	30.01	762.2	41	5.0	57	w.			4		10		w.	0	0	small	w.	overcast.
S. E. B. Sutton, N. 37° 40′, W. 134° 00†	30.39	771.9	59	15.0	94	ese.			1		3		n.	0	0	sm'h		clear.
S. S. City of Rio de Janeiro, N. 37° 23′, W. 158° 10′ †	30.17	766.3	56	13.3	87	nnw.			3		10		w.	0.1	3.	mod.	nw.	clearing.
S. S. Colima, N. 37° 47′, W. 122° 40′ †	29.98	761.5	49	9.4	85	nw.			3		0			0	0	mod.		misty.
S. S. Granada, Panama Bay, Panama †	29.88	758.9	79	26.1	86	nw.			1		1			0	0			clear.
S. S. San Blas, N. 18° 00′, W. 103° 00′			76	24.4		ese.			3		10		sse.	5 h'r	5 h'r	small	s.	raining.
S. S. San José, San Blas, Mexico†	29.92	760.0	69	20.6		nw.			2		8 n		nw.	10 h'r	10 h'r	long	wsw.	squally.
S. S. Gordon Castle, S. 5° 40′, E. 128° 13′*	29.87	758.7	81.0	27.2	78	sse.			2-3		4		sse.					fair.
S. Armenia, N. 37° 25′, W 133° 50′*	30.30	769.6	60	15.6	76	ne.			3		4		ne.	0	0	sm'h	nnw.	fair.
Bk. Bore, Macassar, Celebes Id° †	30.23	767.8	85	29.4		ese.			1									
S. Grecian, N. 22° 50′, E. 135° —′†	29.84	757.9	81	27.2	78	nw.			4		2		nw.	0	0	mod.	ne.	clear
S. S. Malabar, Singapore, Malay Peninsula	30.07	763.8				se.					0			0	0	sm'h		clear.
S. S. Radnorshire N. 11° 22′, E. 111° 51′*†	29.80	756.9				sw.			2		3		sw.	0	0	light	sw.	clear.
S. Titan, N. 37° 40′, W. 139° 11′*†	30.50	774.7	67	19.4	95	calm			0		5		sw.	0	0	sm'h	nw.	fair.
Bk. Xenia, N. 28° 23′, E. 123° 46′			71	21.7		calm			0		10		nw.	0	0	sm'h		cloudy
U. S. S. Ranger, N. 16° 50, W. 99° 56′	29.92	760.6	81	27.2	74	ne.			2		8			0	0	sm'h		cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			55	12.8	87	calm			0		10							drizzling
H. M. S. Espiegle, S. 12° 16′, E. 177° 18′	29.84	757.9	81	27.2	83	ese.			3		3					2	ese.	d. clouds.
H. M. S. Kingfisher, S. 23° 57′, W. 144° 48′	30.07	763.8	74	23.3		ne.			3-6		10					7	e.	raining.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	30.75	781.0	53	11.7		ese.			2							2	ese.	d clouds.
H. M. S. Nelson, S. 28° 50′, E. 169° 00′	29.77	756.1	72	22.2	85	calm			0		4	ne.				sm'h		d. clouds
U. S. S. Iroquois, Valparaiso, Chili	30.03	762.7	54	12.2	87	calm			0		0					sm'h		clear.
U. S. S. Lackawanna, S. 32° 18′, W. 114° 38′*	29.74	755.4	62	16.7	83	sse.			7		8		sse.			r'gh	sse.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	64	17.8	83	calm			0		10		n.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.91	759.7	64	17.8	83	se.	3	1.3			10			0	0			misty.
U. S. S. Wachusetts, S. 20° 26′, W. 170° 58′	29.85	758.2	74	23.3	86	ssw.			1		5		se.			mod	sse.	fair.
S. S. Australia, S. 28° 08′, W. 178° 48′	29.91	759.7	75	23.9	95	calm			0		0			0	0	sm'h		clear.
S. S. City of Sydney, Sydney, N. S. W *†	29.85	758.2	55	12.8	81	w.			2		2		w.	0	0			clear.
S. S. Zealandia, S. 27° 42′, W. 178° 38′	29.65	753.1	71	21.7	90	e.			4		0					sm'h		clear.
S. David Crocket, S. 3° 31′, W. 112° 36′*	29.83	757.7	78	25.6	84	e.			3		4		ese.	0	0	long	sse.	fair.
H. M. S. Lark, S. 18° 35′, E. 157° 00′	29.98	761.5	74.3	23.5	77	se.			2		3					2	s.	d. clouds
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.66	753.4	87	30.6		se.			1									blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon	29.66	753.4	90	32.2	70	sw.			3		5	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.94	760.5	77	25.0	86	se.			2		6	sse.				2	sse.	d. clouds.
H. M. S. Tourmaline, Ras Madruka, Arabia	29.60	751.8	84	28.9	79	sw.			2		1	sw.				1	s.	blue sky.
H. M. S. Woodlark, off Bushire, Persia	29.65	753.1	85	29.4	64	nw.			5-6		2	wnw.				4	nw.	misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony*	29.85	758.2	69	20.6	80	calm			0		0					sm'h		clear.
U. S. S. Juniata, Bombay, India	29.76	755.9	88	31.1	96	s.			2		5			0	0	sm'h		fair.
S. S. Salerno, N. 15° 29′, E. 59° 58′†	29.88	758.9	86	30.0		wsw.			5		0			0	0	mod.	wsw.	clear.
S. Annie M. Law, S. 28° 25′ E. 47° 15′*†	30.32	770.1	72	22.2		e.			2		0			0	0	mod.	se.	clear.
Bk. Ceylon, S. 34° 51′, E. 22° 47′ *†	29.94	760.5	78	25.6	82	nw.			1		0			0	0	sm'h		clear.
S. Dynomene, S. 35° 16′ E. 21° 50′	29.84	757.9	65	18.3	89	wnw.			2		3			0	0	light	sw.	d. clouds.
Bk. Pilgrim, Samarang, Java, Oceania *†	29.95	760.7				se.			1		2		se.	0	0			clear.
S. St. David, S. 8° 54′ E. 105° 05′ *†	29.80	756.9	82	27.8	87	se.			6		5		se.	0	0	light	ese.	hazy.
S. S. Foscolio, Aden, Arabia7	29.87	758.7				wsw.			2		2		sw.	0	0	sm'h		clear

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 25, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.09	764.3	72.7	22.6	84	s.			1		1			inap.	inap.	very fair	Malaterre.
Algiers			30.12	765.0	69.1	20.6	80	calm			0		6			0	0	cloudy	Thève.
La Galle			30.16	766.0	71.2	21.8	83	ne.			1		3			0	0	pretty fair	Fonfrède.
Tunis			30.19	766.8															Jacques.
Saida			30.13	765.4															Pérès.
Tebessa			30.17	766.4	78.8	26.0	30	n.			3		3			0	0	pretty fair	St. Martin.
Geriville					77.0	25.0	47	sse.			1		4			0.472	12.0	cloudy	Forfert.
Laghouat			30.13	765.4	79.2	26.2	33	e.			1		2			0.193	4.9	fair	Abraham.
Biskra			30.15	765.9	86.7	30.4	25	calm			0		3			0	0	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			29.92	754.9	49.0	9.4	93	calm	0	0			10 kn			0.341	8.7	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.49	749.0	29.58	751.3	49.8	9.9	93	ene.	2	0.9			10			0.23	5.8	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.45	748.0	29.97	761.3	77.9	25.5	44	se.			2		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.17	740.8	29.92	760.0	60.8	16.0	69	sw.	11.2	5.0			10			0.024	0.6		Dr. Wierzbiski
Eperies	29.02	737.1	29.87	758.7	67.3	19.6	47	nw.			3	cs	8 s		se.	0.134	3.4		Julius Mikolik.
Gratz	28.73	729.8	29.93	760.1	73.4	23.0	57	w.			2		3			0	0		Andreas Rospini.
Hermannstadt	28.47	723.2	29.87	758.8	61.3	16.3	74	nnw.			2		10			0.004	0.1		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.69	727.8	29.94	760.4	73.4	23.0	44	wnw.			2		3			0	0	clearing	The Staff.
Lemberg	28.85	732.7	29.82	757.3	58.8	14.9	50	n.			5		6			0	0		Dr. T. Stanecki.
Neu Schmecks	26.26	674.6	29.86	758.5	57.6	14.2	55	calm			0		k			0.295	7.5		Dr. V. von Szontagh.
Pola	30.05	763.3	30.16	766.0	74.8	23.8	72	sw.			3		2			0	0		I. R. Hydrographic Office.
Szathmar	29.41	747.0	29.87	758.6	63.3	17.4	42	nw.			4		7			0	0		Joseph Midlinszky, S. J.
Szegedin	29.62	752.3	29.89	759.2	70.2	21.2	62	nw.			3		8			0	0		Karl Stancel.
Trieste	29.94	760.4	30.04	762.9	72.7	22.6	57	calm			0		0			0	0		Royal Academy.
Vienna	29.27	743.5	29.96	761.0	73.0	22.8	52	w.			2		6			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.63	752.6	29.72	754.9	60.2	15.7	60	s.	17	7.6			6			0.130	3.3	d. clouds	W. Boswell.
Armagh, Observatory	29.47	748.5	29.70	754.4	60.9	16.1	71	s.	22	9.8			9					squally	S. Call.
Bidston, Liverpool Obs'y			29.86	758.4	62.0	16.7	56	w.	7	3.1			9					overcast	John Hartnup.
Bolton, Sharples	29.32	744.7	29.85	758.2	61.0	16.1	62	ssw.	6	2.7			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.45	748.0	29.84	757.9	63.6	17.6	52	sw.			1		5			0.03	0.8	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	83	28.3	71	ne.			2		2					d. clouds	Corpl. W. I. Cull, A. H. C.
Cardington	29.82	757.4	29.92	760.0	74.0	23.3	56	nw.			0.4		5					d. clouds	John McLaren.
Chatham, School M. E.	29.75	755.6	29.89	759.2	64.6	18.1	74	ne.			1		8					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.66	753.4	29.89	759.2	57.9	14.4	79	e.			1		9					d. clouds	The Staff.
Fort Napier, Natal	27.64	702.0	29.82	757.4	80.0	26.7	37	e.			1							blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.76	755.9	29.99	761.7	85.0	29.4	76	e.			1		4					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.62	752.3	29.65	753.1	57	13.9	94	w.			3		8			0.42	10.7	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	70.5	21.4	91	e.			1		4					d. clouds	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	29.54	750.3	29.74	755.4	57.4	14.1	74	s.			8		10					raining	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.71	754.6	29.87	758.7	71.4	21.9	64	ene.			1		6					d. clouds	The Staff.
Guernsey	29.57	751.1	29.87	758.7	60.0	15.6	82	nne.			1		9					gloomy	A. Collenette, F. M. S.
Kew, Observatory	29.83	757.7	29.86	758.4	70.7	21.5	62	e.	7	3.1								blue sky	The Staff.
Leicester, Museum	29.59	751.6	29.84	757.9	68.0	20.0	51	sw.			1		1					blue sky	J. C. Smith.
Malta, Mediterranean	30.06	763.5	30.14	765.5	72.0	22.2	91	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.16	766.1	30.20	767.1	77.2	25.1	67	ne.			3		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.36	745.7	29.87	758.7	67.1	19.5	55	s.			1		2					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.65	753.1	29.88	758.9	66.3	19.1	61	w.			1		4					blue sky	The Staff.
Plymouth	29.79	756.7	29.87	758.7	64.8	18.2	71	ese.			2		3					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.48	748.8	29.58	751.3	59	15.0	71						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.94	760.5	72.0	22.2	57	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.58	751.3	29.88	758.9	72.0	22.2	57	nne.			1		10			0.14	3.6	gloomy	W. F. Cooper.
Stonyhurst, Observatory	29.80	756.9	29.82	757.4	62.0	16.7	63	wsw.			5		1			0.020	0.5	blue sky	Rev. F. Redford, M. A.
Truro, Royal Institution			29.86	758.4	62.9	17.2	54						7					d. clouds	W. C. Carlisle.
Valencia, Observatory	29.82	757.4	29.90	759.4	67	19.4	69	s.			4		5					d. clouds	W. Newcombe.
Sub-series.	29.70	754.4	29.73	755.1	55.9	13.3	92	s.	48	21.5			10					raining	The Met'g'l Office.
Gozo, Episcopal Seminary	29.78	756.4	30.17	766.3	73.0	22.8	57	w.	8.7	3.9						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.70	754.4	29.74	755.4	45	7.2	86	nw.	8	3.6			10 n			0.335	8.5	drizzling	H. J. Cundall, C. E
Chatham, N. B*	29.73	755.1	29.79	756.7	46	7.8	63	nw.	13	5.8		0	0			0.00	1.5	clear	G. A. Blair.
Cornwall, Ontario	29.73	755.1	29.92	760.0	53.8	12.1	71	nw.			1		10 s			0.026	0.7	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.74	755.4	29.79	756.7	46.5	8.1		w.			3	0	0			0.020	0.5	blue sky	H. A. Johnson.
Father Point, Quebec*	29.84	757.9	29.86	758.4	40	4.4	89	nw.	20	8.9		0	0			0.03	0.8	clear	J. McWilliams.
Fort Garry, Manitoba*	28.99	736.3	29.82	757.4	46	7.8	93	n.	8	3.6		0	0			0.03	0.8	clear	James Stewart.
Fredericton, N. B.	29.81	757.2	29.88	758.9	48.8	9.3	59	nw.	13	5.8		1 c	4 ks			0.100	2.5	d. clouds	Prof. Harrison, L. L. D.
Granton, Ontario	28.87	733.3	29.96	761.0	57.0	13.9	94	sw.	2	0.9		0	0			0	0	fine	Jas. Grant.
Halifax, N. S*	29.67	753.6	29.80	756.9	47	8.3	77	w.	16	7.2		8 k	0	nw.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.51	749.5	29.89	759.2	61.7	16.5	78	sw.			1	5 ck	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.63	752.6	29.97	761.2	48	8.9	68	s.	8	3.6		8 c	0	nw.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.58	751.3	29.62	752.3	48.0	8.9	85	s.			3		10 n			0	0	overcast	C. H. Rigby.
Montreal, Quebec*	29.76	755.9	29.96	761.0	48	8.9	83	w.	10	4.5			10 s		w.	0.01	0.3	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.68	753.9	29.92	760.0	50.9	10.5	89	e.			3		10 ks			inap.	inap.	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.20	741.7	29.87	758.7	59	15.0	70	s.	5	2.2		2 k	0	w.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.21	741.9	29.95	760.7	54.7	12.6	81	calm			0	6 k	0			0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.32	744.7	30.01	762.2	54	12.2	80	sw.	10	4.5		8 c	0	sw.		0	0	fair	H Morgan.
Port Stanley, Ontario	29.36	745.7	30.00	762.0	52	11.1	83	w.	5	2.2		5 ck	0	w.		0	0	clear	M. Payne.
Quebec, Quebec*	29.59	751.6	29.95	760.7	46	7.8	93	w.	5	2.2		10 cs	0	n.		0	0	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.41	747.0	29.86	758.4	52	11.1	69	calm	0	0		8 k	0	w.		0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B.	29.83	757.7	29.88	758.9	48	8.9	77	nw.	7	3.1		0	0			0.18	4.6	clear	
St. John, N. B	29.69	754.1	29.86	758.4	49.0	9.4	71	n.	11	4.9		0	4 k			0	0	d. clouds	G. Murdock, C. E.
Saint John's, N. F.	29.43	747.5	29.68	753.9	56	13.3	87	s.			2		10 n			0.84	21.3	raining	J. Higgins.
St. Pierre, N. F.			29.57	751.1	47.1	8.4		w.			6					0.24	6.1		The Commandant
Saugeen, Ontario*	29.17	740.9	29.86	758.4	64	17.8	63	sw.	21	9.4		0	0			0	0	clear	
Stratford, Ontario	28.71	729.2	29.96	761.0	58.9	14.9	71	sw.	10	4.5		0	0			0	0	blue sky	C. J. Macgregor, M A
Sydney, C. B*	29.56	750.8	29.62	752.3	49	9.4	93	w.	8	3.6			10 ks		nw.	0.03	0.8	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.60	751.8	29.98	761.5	53	11.7	74	calm	0	0		2 cs	hz.	w.		0	0	hazy	Magnetic Observatory.
Windsor, N. S	29.69	754.1	29.78	756.4	48.0	8.9	78	nw.	16	7.2		0	8 k			0	0	d. clouds	Prof. W. H. Butler, M.A
Woodstock, Ontario	28.94	735.1	29.98	761.5	61.8	16.6	71	s	21	9.4		1 cs	0	sw.		0	0	blue sky	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.86	758.4	29.92	760.0	47	8.3	86	nw.	8	3.6		0	0			0	0	clear	Lt. F. E. Wilmot, R.N.
London, Ontario	29.12	739.6	30.01	762.2	57.7	14.3	75	s.			2	0	3 ks			0	0	blue sky	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	29.84	757.9	29.87	758.7	68.0	20.0	83	e.	8.1	3.6		6 k	0			0	0	fine	John Duthie.
Springbok Fontein	27.86	707.6			70	21.1	32	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.11	637.7																	A. Guesny.
Tchang-kia-tchouang	29.84	758.0	29.95	760.8	58.5	14.7	49	ne.			1		0			0.193	4.9		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.82	757.5	29.85	758.2	63.1	17.3	68	n.	12.3	5.5		4 ck	0			0.165	4.2	cloudy	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.87	758.6	29.91	759.8	59.4	15.2	72	e.	9	4			0						Oversergent Fischer.
Fanoe	29.90	759.5	29.92	760.0	61.3	16.3	77	sw.			2		1						Overloerer Lauridsen.
Godthaab, Greenland	29.72	754.8	29.76	755.9	36.0	2.2	68	ne.			2		7						S. Kleinschmidt.
Jacobshavn, Greenland	29.73	755.1	29.78	756.3	32.5	0.3		calm			0		8					snowing	
Stykkisholm, Iceland	29.45	748.0	29.49	749.1	34.9	1.6	80	ne.			4		8						A. O. Thorlacius.
Thorshavn	29.46	748.2	29.48	748.8	50.7	10.4	75	sw.	7	3			10						Overloerer Bergh.
Vestervig	29.79	756.6	29.88	758.9	59.9	15.6	75	sw.			4		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.83	757.7			82.8	28.2		nw.	7.4	3.3		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.39	746.4	30.01	762.2	76.3	24.6	64	se.			1		n			0	0		M. Labroue, Director.
Alençon, Normal School	29.38	746.2	29.93	760.2	71.6	22	69	nnw.			1		2 k	nnw.	sse.	0.08	2.	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School	29.61	752.0	29.85	758.2	78.3	25.7	31	sw.			6		kn		ne.	0	0		M. Fénéon, Command't.
Avignon, Normal School	30.02	762.4	30.10	764.4	76.6	24.8	51	sw.			1		2		sw.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.37	746.1	29.90	759.5	77.5	25.3	34	sse.			1	0	5 cn		ssw.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.62	752.4	29.87	758.7	81.1	27.3	40	se.			2		8		sw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.06	738.0	29.91	759.8	81.1	27.3	41	s.			2		0			0	0		M. Gobin, Director.
Bordeaux, Observatory	29.65	753.1	29.90	759.4	79.3	26.3	44	sw.			1		8		sw.	0.071	1.8	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.39	746.4	29.91	759.6	81.5	27.5	37	wsw.			2		k		wsw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.69	754.1	29.93	760.2	72.7	22.6	67	sw.			1		2		sw.	0	0		M. de Kermarec, Dir.
Caen, Normal School	29.77	756.2	29.84	758.0	65.5	18.6	84	w.			1		8		ssw.	0.16	4.	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.60	751.7	29.90	759.5	80.8	27.1	78	s.			2		2		se.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.44	747.7	29.93	760.1	82.6	28.1	45	s.			2		8			0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.60	726.4	29.87	758.6	84.6	29.2	35	s.			2	0	8 k			0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.12	739.7	29.95	760.6	82.8	28.2	31	ssw.			2		8		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.12	739.7	29.94	760.5	74.7	23.7	36	sw.			1		k	sw.	sw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.59	700.9	30.04	763.1	73.0	22.8	34	ne			2		3 n		e.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.95	735.3	30.04	763.1	70.5	21.4	48	se.			2		5		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.24	742.6	29.98	761.5	78.1	25.6	44	nw.			2	ck	0	w.		0	0		M. Ablard, Director.
Guéret, Normal School	28.39	721.1	29.88	758.9	76.6	24.8	35	sw.			1		10		wsw.	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School	29.73	755.2	29.99	761.8	77.7	25.4	98	n.			1		5		n.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.35	745.5	29.89	759.2	79.5	26.4	53	se.			1		10 s			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.78	756.5	29.89	759.1	71.2	21.8	70	sw.			2		2	n.		0.441	11.2	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.8	29.95	760.8	77.7	25.4	37	s.			3		5	w.		0	0	fair	M. André, Director.
Mans, Normal School	29.57	751.1	29.87	758.6	75.7	24.3	60	ssw.			3		2		sw.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.87	758.6	30.13	765.4	74.1	23.4	60	ssw.			1		4		wsw.	0	0		M. Stephan, Director.
Montlouis	24.97	634.1	29.81	757.1	65.3	18.5	47	w.	11.2	5.0			7	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.2	30.08	764.0	69.1	20.6	87	se.			3		5		se	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.24	742.8	29.99	761.8	80.2	26.8	37	sse.			1		k			0	0		M. Hasse, Director.
Nantes, Observatory	29.75	755.7	29.91	759.8	77.9	25.5	56	wsw.			1–2	0	9 k; kn		sw.	0.024	0.6		M. Larocque, Director.
Perpignan, Observatory	29.91	759.6	30.02	762.4	71.6	22.0	67	n.	11.2	5.0			7			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.44	542.0			41.7	5.4		sw.			1		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.08	738.7	30.10	764.4	76.3	24.6	54	e.			1		2 k	s.	s.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.22	640.5			61.0	16.1	61	s.			3		5		ssw.	0	0	½ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.86	758.4	29.89	759.2	78.4	25.8	58	s.			2		2		sww.	1.42	36.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.63	752.6	29.84	757.8	74.3	23.5	61	sse.			4		5		wsw.	0.142	3.6	cloudy	M. Brotier, Director.
Rodez, Normal School	27.98	710.8	30.04	763.1	73.6	23.1	52	w.			3		sn		nw.	0	0		M. Seger, Director.
Rouen, Normal School	29.85	758.1	29.89	759.3	75.6	24.2	48	w.			1		10	nw.		0	0	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.73	755.2	29.89	759.3	78.8	26.0	44	se.			1		7	sw.		0	0		M. Renou, Director.
Toulouse, Observatory	29.31	744.5	30.04	762.9	76.6	24.8	57	sse.			3		5		nw.	0	0	cloudy	M. Baillaud, Director.
Tours	29.71	754.5	29.88	759.0	78.1	25.6	54	s.			1		10	sw.	ssw.	0.031	0.8	stormy	M. de Tastes.
Versailles, Observatory	29.41	747.0	29.90	759.5	77.7	25.4	46	sw.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.83	757.3	29.97	761.1	77.5	25.3	43	w.	13.9	6.2		0	9 k		wsw.	0.106	2.7		M. Cartier, Director.
GERMAN.																			
Ansbach	28.59	726.1	29.97	761.2	76.1	24.5	32	w.			2		1	w.		0	0		Prof. Jaedt.
Bamberg	29.16	740.6	30.00	762.0	73.6	23.1	55	calm			0	0	1 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.82	757.4	29.96	760.9	69.1	20.6	68	nw.			3		4			0	0		Meteorological Institute.
Breslau	29.47	748.4	30.00	761.9	61.3	16.3	71	nw.			3		10			0.004	0.1	foggy	Royal University Obs'y
Carlsruhe	29.53	750.0	29.97	761.1	79.5	26.4	31	sse.			1		5	sw.		0	0		Albert Senz.
Cassel	29.25	743.0	29.97	761.1	74.5	23.6	37	s.			2		5	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.96	760.9	78.3	25.7	37	se.			1		1			0	0		Physical Society.
Friedrichshafen	28.62	727.0	29.99	761.7	70.5	21.4	60	ssw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.89	759.3	29.98	761.6	73.4	23.0	58	wsw.			1		2	sw.		0	0		E. Preller.
Kiel	29.93	760.2	29.95	760.6	67.3	19.6	51	w.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.2	29.98	761.5	72.0	22.3	43	w.			2		4			0	0	hazy	H. Leppig, Asst.
Magdeburg	29.78	756.5	29.97	761.1	74.3	23.5	40	w.			1		4	w.		0	0		Dr. Assmann.
Memel	29.88	759.0	29.93	760.2	46.6	8.1	83	nnw.			2	0	9 s						Issermann.
Munich	28.22	716.7	30.08	764.1	75.7	24.3	28	calm			0		3	w.		0	0		Central Station.
Neufahrwasser	29.94	760.5	29.96	760.9	49.8	9.9	83	e.			1		10			0.114	2.9	raining	A. Lothes.
Neustadt, Palatinate	29.45	748.0	29.98	761.4	79.3	26.3	39	calm			0		1			0	0		Dicknether.
Stuttgart	29.03	737.4	29.88	758.9	79.2	26.2	31	e.			1		2	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.99	761.7	30.01	762.3	58.1	14.5	53	s.			2	0	3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.63	752.6	30.00	762.1	75.2	24.0		s.			1.5	0	2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.48	748.9	29.53	750.2	89.8	32.1	65	wsw.	32.0	14.3			7		wsw.	0	0	d. clouds	
Deesa	29.04	737.7	29.50	749.2	99.3	37.4	31	sw.	23.0	10.3			2	sw.		0	0	d. clouds	
Bombay	29.68	753.8	29.72	754.8	88.2	31.2	69	wsw.	14.0	6.3			5	wsw.	w.	0	0	d. clouds	
Poona, Yarrowda	27.85	707.5	29.66	753.3	90.0	32.2	35	sw.	34.0	15.2			2			0	0	d. clouds	
Trichinopoly	29.40	746.8	29.67	753.6	99.3	37.4	43	nw.	1.0	0.4			8	ne.	ne.	2.55	64.8	d. clouds	
Belgaum	27.18	690.5	29.68	753.9	81.8	27.7	55	e.	8.0	3.6			5	w.		0	0	d. clouds	
Lahore	28.72	729.4	29.44	747.7	89.1	31.7	37	e.	4.0	1.8			10			0.05	1.3	d. clouds	
Roorkee	28.63	727.1	29.50	749.3	89.2	31.8	46	calm	0	0			10			0.16	4.1	threatening	
Agra	29.00	736.1	29.62	752.4	78.2	25.7	70	nw.	16.0	7.2			10		nw.	0.40	10.2	d. clouds	
Nagpur	28.47	723.2	29.46	748.2	105.5	40.8	16	w.	8.0	3.6			3	w.		0	0	d. clouds	
Jubbulpore	28.22	716.8	29.52	749.7	98.9	37.1	18	nw.	6.0	2.7			2		nw.	0	0	d. clouds	
Lucknow	29.16	740.7	29.52	749.9	98.0	36.7	40	wnw.	6.0	2.7			0			0	0	blue sky	
Allahabad	29.21	741.9	29.51	749.5	97.7	36.5	24	calm	4.0	1.8			0			0.02	0.5	blue sky	
Patna	29.31	744.4	29.48	748.9	98.5	36.9	24	nw.	4.7	2.1			0			0	0	blue sky	
Hazaribagh	27.56	699.9	29.49	749.1	92.5	33.6	24	nw.	7.5	3.4			3			0	0	d. clouds	
Cuttack	29.59	749.3	29.58	751.3	81.1	27.3	72	se.	3.0	1.3			10		s.	0.10	2.5	threatening	
Calcutta, Alipore	29.46	748.3	29.48	748.8	94.5	34.7	47	ssw.	11.0	4.9			4			0	0	d. clouds	
Dhubri	29.40	746.6	29.51	749.5	88.1	31.2	75	calm	0	0			0			0.40	10.2	blue sky	
Chittagong	29.48	748.8	29.57	751.1	85.4	29.7	78	w.	2.6	1.2			7			0	0	blue sky	
Sibsagar	29.20	741.8	29.53	750.1	85.2	29.6	79	sw.	2.0	0.9			6	e.	e.	0	0	d. clouds	
Jeypore	28.13	714.5	29.58	751.3	73.0	22.8	88	sw.	7.3	3.3			10		sw.	0.72	18.3	thund'r st'm	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Bellary	28.17	715.5			100.5	38.1	20	w.	8	3.6		3 c	0			0	0	d. clouds	
Zanzibar			29.96	761.0	80.8	27.1	71	ssw.	8.0	3.6			7	s.	sw.	0.09	2.3	d. clouds	
ITALIAN.																			
Udine	29.63	752.5	30.03	762.7	84.9	29.4	54	s.	1.8	0.8			1			0	0		Prof. Giovanni Clodig.
Milan	29.53	750.0	30.04	762.9	76.3	24.6	47	w.	6.3	2.8			0			0	0		Prof. G.V. Schiapparelli.
Padua	29.91	759.7	30.02	762.4	74.1	23.4	56	ssw.	1.3	0.6			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.12	739.6	30.01	762.2	75.4	24.1	45	e.	4.9	2.2			1			0	0		Prof. F. F. Denza.
Genoa	29.96	760.9	30.15	765.8	61.2	16.2	89	e.	4.9	2.2			10	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.14	714.7	30.02	762.5	72.1	22.3	51	ese.			4		0			0	0		Prof. D. C. Bruno.
Pesaro	29.99	761.7	30.04	762.9	70.2	21.2	59	se.	7.4	3.3			3			0	0		Prof. Luigi Guidi.
Florence	29.87	758.8	30.13	765.2	71.6	22.0	61	sw.			2		7			0	0		Prof. Costantino Pittei.
Leghorn	30.01	762.2	30.09	764.3	69.0	20.9	61	wsw.	3.1	1.4			0			0	0		Prof. P. Monte.
Rome	29.94	760.5	30.11	764.8	74.7	23.7	46	w.	15.0	6.7			0			0	0		Prof. P. Tacchini.
Lecce	29.81	757.2	30.06	763.6	71.6	22.0	39	n.	11.2	5.0			5			0	0		Prof. C. de Giorgi.
Cosenza	29.24	742.6	30.10	764.5	74.1	23.4	68	ssw.	1.8	0.8			3	sw.		0	0		Prof. D. Conti.
Cagliari	29.93	760.3	30.12	765.1	69.4	20.8	64	se.			4		5			0	0		Prof. A. Pacinotti.
Palermo	29.94	760.4	30.19	766.7	66.4	19.1	51	ne.	8.1	3.6			0			0	0		Prof. G. Caccianore.
Syracuse	30.08	764.0	30.12	765.1	70.9	21.6	53	ne.	2.5	1.1			4	sw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.62	752.4	30.13	765.4	69.8	21.0	73	sw.	3.1	1.4			1			0	0		Prof. F. Brioschi.
Stelvio	22.30	566.5			37.9	3.3	50	e.			1		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.35	567.6			50.0	10.5	54	n.			1		3			0	0		Prof. P. F. Denza.
JAPANESE.																			
Akita	29.67	753.5	29.70	754.4	54.0	12.2	87	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	29.62	752.3	29.65	753.1	55.0	12.8	75	sse.	3.3	1.5		0	0			0	0	clear	K. Ogawa.
Hamamatsu	29.71	754.6	29.74	755.3	64.3	17.9	91	calm			0	3 ck	0	w.		0.559	14.2	fair	
Kagoshima	29.61	752 0	29.02	752.3	68.4	20.2	97	calm			0		10 n			0.492	12.5	raining	G. Miyanohaza.
Kioto	29.51	749.5	29.68	753.9	62.2	16.8	73	wnw.	3.7	1.6		0	2 s			0.800	20.3	clear	M. Tojima.
Miasaka	29.62	752.3	29.65	753.0	67.6	19.8	96	nw.			2		10 n		e.	0.606	15.4	raining	K. Masusaki.
Miyako	29.62	752.3	29.73	755.1	51.9	11.1	87	calm	0	0			10 s			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.40	746.7	29.59	751.6	67.6	19.8	96	se.	1.2	0.5			10 n			1.170	29.7	raining	S. Takehayashi.
Niigata	29.66	753.3	29.70	754.4	56.8	13.8	86	ne.	0.7	0.3		0	2 ck			0	0	fair	M. Morita.
Nobiru	29.70	754.4	29.72	754.8	56.4	13.6	85	sse.	9.1	4.0		0	0			0	0	clear	H. Midzushina.
Numazu	29.69	754.1	29.72	755.0	66.3	19.1	86	ssw.			4	3 c	3 ks			0.126	3.2	fair	R. Kaneda.
Osaka	29.67	753.7	29.69	754.1	67.0	19.4	86	w.	1.5	0.6		1 cs	9 s			0.595	15.1	cloudy	H. Omura.
Tokei Obs'y, Yeddo	29.61	752.0	29.68	753.8	64.9	18.3	85	s.	12.1	5.4		0	0			0.049	1.2	clear	The Staff.
Wakayama	29.62	752.3	29.67	753.6	69.1	20.6	74	s.	0.3	0.1		10 ck	0	w.		0.717	18.2	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.89	759.2	30.08	764.0	74.6	23.7	66	e	16.5	7.4		1cs;ck	4 ks;k	ene.	ese.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.71	602.3	29.93	760.3	55.8	13.2	97	calm	0	0			10 pn		se.	0.983	25.0	covered	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.06	763.5	55.0	12.8	97	s.	2.0	0.9			10 n			0.696	17.7	covered	Prof. M. Leal.
Mazatlan	29.72	754.8	29.97	761.3	72.0	22.2	90	nnw.	15.5	6.9			10 n		e.	inap.	inap.	covered	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Tabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Zacatecas																			J. A. Bonilla, M. E.
Sub-series.																			
Altata					67	19.4	94	n.	5.8	2.6		0	2 k		e;s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.94	760.4	29.94	760.4	72.0	22.2		nne.			2					0	0		
Groningen	29.89	759.3	29.95	760.7	70.9	21.6		w.			2					0	0		
Helder	29.96	761.0	29.96	761.0	61.2	16.2		sw.			2					0	0		
Hellevoetsluis	29.96	760.9	29.96	760.9	78.3	25.7	57	calm			0					0	0		
Utrecht	29.91	759.7	29.96	760.9	78.3	25.7	41	sw.			2		2			0	0	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.81	757.2			81.3	27.4	81	nne.	0	0			2			0	0		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.75	755.6	29.81	757.2	55.4	13.0	77	ssw.	18	8			9			0	0		
Brono	29.78	756.5	29.82	757.5	57.2	14.0	77	nw.			2		10			0.520	13.2		
Christiania	29.62	752.4	29.76	755.9	72.9	22.7	34	wsw.	4	2			2			0	0		
Gjesvær	29.81	757.2	29.84	757.8	52.3	11.3		calm			0		0						
Lodingen	29.75	755.7	29.80	756.9	52.0	11.1	85	wsw.			0–2		10			0.012	0.3	rain & fog	
PORTUGUESE.																			
Angra, Azores	29.98	761.6	30.14	765.6	64.0	17.8	82	nne.	14.3	6.4			4			0	0		Dr. J. A. Sampaio.
Campo Major	28.91	734.2	29.89	759.1	65.3	18.5	88	ssw.	6.3	2.8			10			0.394	10.0		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.90	759.4	29.98	761.6	67.6	19.8	72	sw.	11.9	5.3			2			0.323	8.2		Capt. D. A. de Cunha.
Lisbon, Observatory	29.56	750.8	29.89	759.3	64.0	17.8	94	ssw.	4.9	2.2			10			0.201	5.1		The Staff.
Ponta Delgada, Azores	30.06	763.5	30.13	765.3	64.8	18.2	62	n.	7.4	3.3			3			0.039	1.0		
Saint Paul de Loando	29.82	757.4	30.02	762.5	76.8	24.9	86	sw.	1.8	0.8			10			0	0		
Serra da Estrella	25.21	640.2	29.91	759.7	49.3	9.6	100	ese.	33.5	15.0			10			0.339	8.6	rain & fog	
RUSSIAN.																			
Akmolinski	28.60	726.4	29.62	752.3	73.4	23.0	40	ne.	7	3		2 ck	0			0	0		Major K. Lasarew.
Archangel	29.95	760.7	29.97	761.2	68.7	20.4	45	e.	4	2			9 ks			0	0		Capt. Sseliwerstow.
Ashurada	30.01	762.2	29.91	759.8	79.9	26.6	75	wnw.	11	5		cs	3 k			0	0	light clouds	
Astrakhan	30.06	763.4	29.97	761.3	70.3	21.3	52	n.	7	3			9 ks			0.185	4.7		Capt. Wisganow.
Baku	30.00	762.0	29.95	760.8	75.0	23.9	60	n.	9	4		0	1 ks			0	0		
Barnaul	29.08	738.5	29.56	750.8	59.7	15.4	39	nw.	22	10			9			inap.	inap.	light clouds.	
Bielosersk	29.26	743.2	29.71	754.7	63.0	17.2	86	ne.	11	5			9 ks			0.063	1.6		Meteorological Obs'y
Dorpat	29.61	752.0	29.84	758.0	60.4	15.8	45	ene.	4	2			9 k			0.335	8.5		
Ekaterinburg	29.08	738.6	30.02	762.4	66.9	19.4	32	calm	0	0		1 c	0			0	0	light clouds	Observatory.
Elisawetgrad	29.22	742.2	29.67	753.6	51.3	10.7	72	wnw.	18	8			9 n			0.248	6.3		Meteorological Obs'y
Irkutsk	27.90	708.6	29.45	748.1	66.7	19.3	45	se.			3	0	0			0	0		
Kasalinsk	29.32	744.7	29.50	749.2	90.3	32.4	37	w.	9	4			10 k						
Kazan	29.51	749.5	29.76	755.9	74.5	23.6	59	wsw.	2	1			10 kn			0.024	0.6		Observatory.
Kem	29.95	760.7	30.00	762.0	55.0	12.8	69	calm	0	0			10 ks			0	0		
Kertch	29.82	757.4	29.84	758.0	61.0	16.1	68	s.	7	3			10 n			0	0		Lagorio & Sastyrez.
Kieff	28.96	735.0	29.59	751.6	48.9	0.4	83	ne.	18	8			10ks;n			0.047	1.2	raining	Observatory.
Koslov	29.24	742.8	29.77	756.1	63.9	17.7	56	sse.	13	6		0	8 ks			0.260	6.6		
Libau	29.88	758.9	29.90	759.5	46.6	8.1	82	nw.	9	4			10			0	0		E. Quaas.
Lugan	29.56	750	29.74	755.3	61.5	16.4	52	ssw.	22	10			10			0.264	6.7		Meteorological Obs'y.
Moscow	29.26	743.2	29.72	754.8	62.8	17.1	52	s.	8.9	4.0		0	4 ks			0	0		Meteorological Obs'y
Nikolaiev	29.77	756.1	29.84	758.0	55.4	13.0	93	wsw.	18	8			10 n			0.378	9.6		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.78	756 3	29.86	758.5	50.9	10.5	65	e.	11	5			10			0	0		Iwanow.
Pekin, China	29.72	754.8	29.86	758.4	60.2	15.7	34	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.45	748.0	29.78	756.4	87.8	31.0	29	w.	3.4	1.5		0	6 kn			0	0		
Petrozavodsk	29.62	752.3	29.81	757 2	57.4	14.1	81	ne.	9	4			10			0.020	0.5	light clouds	Dr. Bergmann.
Pinsk	29.26	743.3	29.76	755.8	53.2	11.8	61	nw.	27	12		0	7 ks			0.051	1.3		
Poti	29.95	760.8	29.98	761.6	66.9	19.4	75	calm	0	0		0	0			0	0		
St. Petersburg	29.81	757.1	29.83	757.7	56.8	13.8	58	nw.	9	4			10 n			0	0		Central Physical Obs'y.
Samarkand	27.42	696.4	29.75	755.0	80.8	27.1	50	nw.	3.4	1.5		1 ck	0			0	0		
Semipalatinsk	28.93	734.7	29.54	750.2	80.8	27.1	26	nw.	9	4			10			0	0		Major Lasarew.
Sevastopol	29.66	753.3	29.86	759.0	62.2	16.8	75	sw.	27	12			9 n			0.008	0.2		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.15	740.4	29.61	752.0	51.4	10.8	91	ne.	13	6			10 n			0.059	1.5	raining	
Tashkend	28.11	714.1	29.67	753.5	85.6	29.8	36	calm	0	0		0	7 kn			0	0		Terch, A. M.
Tiflis	28.47	723.1	29.80	757.0	83.5	28.6	39	se.	16	7		0	5 k			0.071	1.8		Physical Observatory.
Vernoe	27.22	691.4	29.60	751.8	72.7	22.6	48	sw.	7	3			10 n			0	0		
Viatka																0.039	1.0		
Warsaw	29.47	748.4	29.89	759.2	61.0	16.1	51	nnw.	11	5			10 kn			inap.	inap.		Astronomical Obs'y.
Yeniseisk	29.50	749.2	29.78	756.4	45.9	7.7	75	w.	9	4			10			blank	blank		M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.54	750.3	51	10.6	93	ssw.			4	5	5	sw.		0.1	3.	showery	J. Youngclause.
North Unst			29.64	752.8				sw.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.96	761.0	30.06	763.6	73.4	23.0	62	s.	3.4	1.5		2c;ck	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.89	759.2	29.95	760.7	72.0	22.2	69	nw.	3.1	1.4		2	6	ne.		0.429	10.9	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.02	686.2	29.89	759.1	70.3	21.3	52	s.	6.0	2.7			9			0	0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.77	705.3	29.93	760.1	72.1	22.3	55	sw.	6.3	2.8			10			0.079	2.0	covered.	The Staff.
Murcia, Met. Obs'y	29.87	758.8	29.99	761.7	76.1	24.5	59	e.	4.5	2.0		4	5	wnw.		0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	29.17	740.9	30.05	763.2	57.2	14.0	93	w.	6.3	2.8		8 kn	2 k	n.	n.	0.803	20.4	covered.	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.00	736.6	29.87	758.8	64.9	18.3	68	calm	0	0			10			0	0	covered.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.07	763.7	30.13	765.4	77.2	25.1	80	e.	2.2	1.0		1ck;ks	0	se.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.9	29.82	757.4	85.3	29.6	75	sw.	44.3	19.8		0	2 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.90	759.6	30.00	762.0	72.5	22.5	73	s.	15.7	7.0			10		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.8	30.08	764.1	77.0	25.0	98	s.	2.2	1.0		6 cs	3 k	s.	s.	0.465	11.8	d. clouds	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.97	761.1	30.00	762.1	55.8	13.2	64	se.			2		0			0	0		
Umea	29.93	760.2	29.98	761.5	60.8	16.0	45	sw.			2		0			0	0		
Hernosand	29.91	759.6	29.96	760.9	63.0	17.2	45	s.			2		0			0	0		
Stockholm	29.79	756.7	29.97	761.2	57.7	14.3	54	e.			2		6			0.012	0.3		
Wisby	29.85	758.3	29.91	759.8	51.1	10.6	70	ne.			2		10			0	0		
Sub-series.																			
Upsala	29.85	758.1	29.93	760.3	56.7	13.7	57	ne.	5.1	2.3			10	n.		0	0		S. G. Fineman.
SWISS.																			
Geneva	28.62	727.0	29.99	761.7	75.7	24.3	47	ese.			2		4			0	0		The Observatory.
TURKISH.																			
Constantinople			29.98	761.6	71.6	22.0	37	wsw.	8	3.5			0			0	0		The Observatory.
Valona			30.13	765.2	69.4	20.8		w.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.98	761.4	74.5	23.6	66	w.			2	c	2 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.72	678.7			60	15.6	46						8 n		se.	0.5	13.	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.00	762.0	30.08	764.0	58	14.4	64	s.	4	1.8		3 ck	4 ks	w.	w.	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.20	741.7	29.86	758.4	64	17.8	58	w.	6	2.7		10 cs	0	w.		0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	630.0	29.86	758.4	42	5.6	62	e.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.39	695.7	30.23	767.8	45	7.2	86	w.	7	3.1			10 s		w.	0.23	5.8	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.12	739.6	30.29	769.4	63.5	17.5	57	s.	5	2.2		3 c	0	w.		0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.11	764.8	30.12	765.0	59	15.0	70	e.	3	1.3		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.06	763.5	30.25	768.3	54.5	12.5	83	calm	0	0		5 c	1 s	w.		0	0	fair	John Healy.
Baltimore, Maryland	30.12	765.0	30.17	766.3	62	16.7	56	nw.	1	0.4		hz.	0			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.10	764.5	30.12	765.0	67.0	19.4	59	sw.	9	4.0		0	fg.			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	30.26	768.0	30.28	769.1	37.5	3.1		sw.	2	0.9			fg.			0	0	dense fog	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.33	719.6	29.89	759.2	52.0	11.1	83	nw.	8	3.6		3 k	2 s	nw.	nw.	inap.	inap.	fair	A. Pritchard.
Benton, Fort, Montana	27.35	694.7	30.14	765.5	45	7.2	71	sw	9	4.0		0	7 ks			0.10	2.5	fair	S. Wheaton.
Billings, Montana	26.90	683.2	30.08	764.0	43	6.1	100	e.	2	0.9			10 n			0.50	12.7	light rain	T. Gibson.
Bismarck, Dakota	28.15	715.0	29.94	760.5	52	11.1	80	n.	8	3.6		1 k	0	nw.		0.02	0.5	clear	Cyrus Cramer.
Block Island, Rhode Island	30.05	763.3	30.08	764.0	57	13.9	69	nw	13	5.8		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.57	700.3	30.41	772.4	40	4.4	92	n	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.88	758.9	30.04	763.0	58.0	14.4	72	w.	3	1.3		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.89	759.2	78.0	25.6	76	s.	10	4.5			10 s		s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.27	743.4	30.01	762.2	60.6	15.9	54	s.	14	6.3		2 cs	hz.	sw.		0	0	clear	W. Finn.
Buford, Fort, Dakota	28.09	713.5	30.07	763.8	44	6.7	76	w.	8	3.6		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.76	755.9	30.05	763.3	47.0	8.3	86	s.	9	3.0			10 s		w.	inap.	inap.	cloudy	D. N. Farnell.
Cairo, Illinois	29.64	752.8	30.04	763.0	65.6	18.7	75	sw.	9	4.0		2 ck	0	sw.		0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.10	766.1	30.18	766.6	66	18.9	54	w.	9	4.0		7 cs	0			0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.10	764.5	30.13	765.3	62.0	16.7	67	e.	6	2.7		1 c	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.43	747.5	30.11	764.8	48	8.9	86	nw.			7	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	70	21.1	70	e.	11	4.9		2 ck	0	w.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.18	766.6	30.23	767.8	66.0	18.9	84	sw.	4	1.8		4 c	hz.			0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.34	745.2	30.18	766.6	60.0	15.6	60	sw.	3	1.5		5 c	fg.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.30	745.7	30.16	766.1	59.0	15.0	81	e.	1	0.4		7 cs	fg.	sw.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.01	609.8	29.88	758.9	33.2	0.7	74	nw.	10	4.5			10 s		n.	0.07	1.8	cloudy	E. McGovern.
Chicago, Illinois	29.17	740.9	29.87	758.7	61.7	16.5	71	sw.	7	3.1		10 ck	0	sw.		0	0	cloudy	John Laurens.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	62	16.7	78	nw.	2	0.9		7 c	hz.			0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.43	747.5	30.08	764.0	60.0	15.6	72	se.	2	0.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.30	744.2	30.03	762.7	64.5	18.1	53	s.	11	4.9		2 ck	0	w.		0	0	clear	J. B. Newlin.
Coleman City, Texas	28.02	711.7	29.82	757.4	65	18.3	90	s.	8	3.6		7 c	0			0	0	fair	T. J. Kenan.
Columbus, Ohio	29.23	742.4	30.07	763.8	58	14.4	69	s.	5	2.2		3 cs	0	sw.		0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	27.90	708.6	29.80	756.9	66.0	18.9	90	s.	20	8.9			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.16	740.7	29.80	756.9	63	17.2	84	e.	4	1.8			10 ks		se.	0.21	5.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.14	638.5	29.86	758.4	58	14.4	47	calm	0	0		10 cs	0			0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.60	726.4	30.35	770.9	42	5.6	65	s.	3	1.3		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.44	646.2	29.90	761.0	43	6.1	70	ne.	2	0.9		0	7 k		w.	0.10	2.5	fair	F. Willson.
Delaware Breakwater, Del.	30.11	764.8	30.13	765.3	59	15.0	93	nw.	1	0.4		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.73	628.1	29.89	759.2	43.0	6.1	76	e.	2	0.9		0	6 s		w.	0.03	0.8	fair	F. M. Neal.
Des Moines, Iowa	28.88	733.5	29.77	756.1	60	15.6	87	s.	3	1.3			10 n		s.	0.72	18.3	light rain	F. W. Conrad.
Detroit, Michigan	29.28	743.7	29.98	761.5	62.0	16.7	60	s.	12	5.4		3 c	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.32	693.9	29.87	758.7	53	11.7	80	ne.	12	5.4		0	6 ks		w.	0.07	1.8	fair	J. H. Bryce.
Dubuque, Iowa	29.13	739.9	29.83	757.7	60.2	15.7	87	calm	0	0			10 n			0.46	11.7	thund'r st'm	J. Harvey Smith.
Duluth, Minnesota	29.07	738.4	29.82	757.4	59	15.0	70	w.	1	0.4			10 s		w.	0.02	0.5	cloudy	N. B. Conger.
Eagle Pass, Texas	29.08	738.6	29.88	758.9	75.2	24.0	68	se.	7	3.1		0	7 s			0	0	fair	F. Belford.
Eagle Rock, Idaho	25.49	647.4	30.17	766.3	30	— 1.1	80	n.	3	1.3		0	0			0.03	0.8	clear	H. R. Boynton.
Eastport, Maine	29.82	757.4	29.89	759.2	49.0	9.4	71	nw.	10	4.5		3 k	0	nw.		0.13	3.3	clear	D. C. Murphy.
Elliott, Fort, Texas	27.05	687.1	29.75	755.6	55	12.8	74	n.	28	12.5		4 k	0	n.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.18	665.0	29.82	757.4	66.0	18.9	20	w.	16	7.2		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.31	744.5	30.03	762.7	63	17.2	63	sw.	10	4.5		3 cs	0	w.		0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.17	740.9	29.83	757.7	50.5	10.3	90	calm	0	0			10 s		sw.	0.03	0.8	cloudy	George Heathcote.
Galveston, Texas	29.95	760.7	29.99	761.7	76	24.4	82	s.	14	6.3		0	9 ks		s.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.22	742.2	29.88	758.9	59.0	15.0	75	s.	21	9.4		0	8 s		sw.	0	0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.24	641.1	29.85	758.2	61.4	16.3	21	e.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.18	766.6	30.20	767.1	66	18.9	90	w.	10	4.5		3 c	sk.			0	0	clear	R. M. Crawford.
Helena, Montana	26.06	661.9	30.23	767.8	44	6.7	70	sw.	6	2.7		3 k	0	calm		0	0	clear	N. C. Smith.
Huron, Dakota	28.51	724.1	29.80	758.4	49.9	9.9	77	n.	4	1.8		5 cs	1 s	n.		inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	29.20	741.7	29.99	761.7	65.0	18.3	59	s.	8	3.6		1 ok	0	w.		0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.91	759.7	29.94	760.5	73.5	23.1	89	s.	8	3.6		5 ck;k	0	sw.		0	0	fair	I. A. Reed.
Jacksboro, Texas	28.63	727.2	29.78	756.4	68	20.0	55	se.	14	6.3		5 ck	0	sw.		0	0	fair	D. J. Carr.
Jacksonville Florida	30.18	766.6	30.22	767.6	67	19.4	73	e.	1	0.4		0	0			0	0	clear	J. W. Smith.

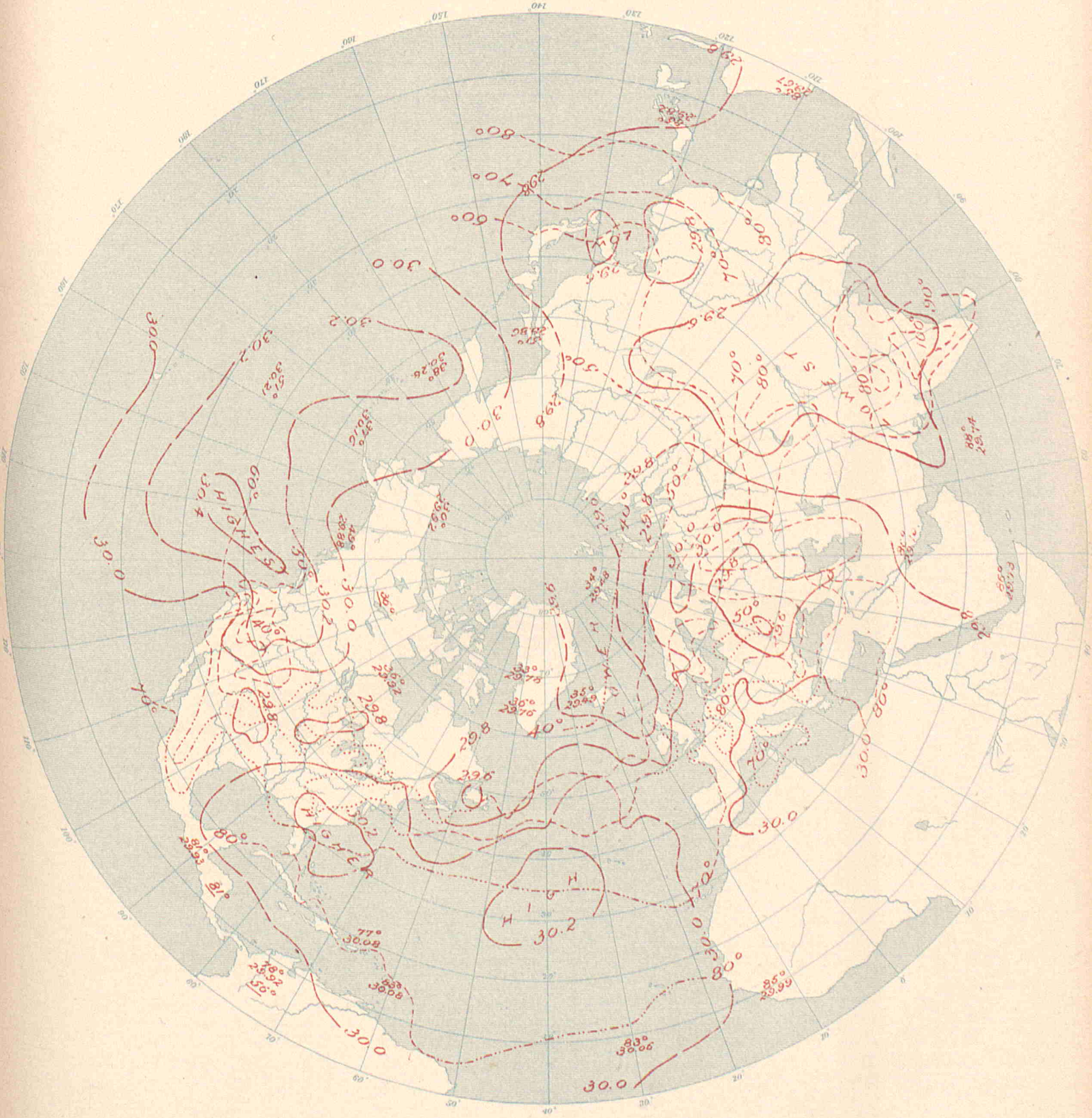
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.58	700.5	30.03	762.7	48	8.9	80	nw.	8	3.6	.....	5 k	2 s	nw.	.....	0.19	4.8	fair	W. B. Lamar.
Keokuk, Iowa	29.16	740.7	29.80	756.9	64.0	17.8	78	s.	8	3.6	.....	.....	10 s	.....	w.	0	0	threatening	F. Z. Gosewisch.
Key West, Florida	30.11	764.8	30.13	765.3	77.5	25.3	86	e	5	2.2	.....	.....	10 s	.....	e.	0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.20	767.1	30.22	767.6	66	18.9	63	w.	12	5.4	.....	2 ck	3 s	w.	.....	0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.16	740.7	30.18	766.6	53.3	11.8	84	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.02	737.1	29.78	756.4	56	13.3	74	s.	3	1.3	.....	.....	10 s	.....	.....	0.35	8.9	cloudy	S. C. Emery.
Leavenworth, Kansas	28.62	734.6	29.80	756.9	59	15.0	93	nw.	3	1.3	.....	.....	10 n	.....	nw.	2.30	58.4	thund'r st'm	A. W. Browne.
Lewiston, Idaho	29.54	750.3	30.38	771.6	42.0	5.6	82	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	29.67	753.6	29.98	761.5	64	17.8	84	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.56	750.8	29.96	761.0	60	15.6	96	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.49	749.0	30.04	763.0	63	17.2	78	s.	3	1.3	.....	2 c	0	.....	.....	0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.47	748.5	30.15	765.8	57	13.9	64	calm	0	0	.....	3 c	0	.....	.....	0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.20	741.7	29.84	757.9	47.0	8.3	93	w.	6	2.7	.....	.....	10 s	.....	w.	0.13	3.3	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.20	767.1	30.21	767.3	66.0	18.9	78	nw.	2	0.9	.....	9 cs	0	.....	.....	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.78	654.8	30.19	766.8	42	5.6	68	ne.	24	10.7	.....	.....	10 n	.....	ne.	0.23	5.8	light rain	F. Burke.
Marquette, Michigan	29.07	738.4	29.79	756.7	59	15.0	70	sw.	8	3.6	.....	7 c	0	s.	.....	inap.	inap.	fair	E. H. Thompson.
Memphis, Tennessee	29.70	754.4	30.03	762.7	65	18.3	78	s.	8	3.6	.....	0	6 s	.....	.....	0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.10	739.1	29.84	757.9	62	16.7	78	sw.	2	0.9	.....	.....	10 ks	.....	sw.	0	0	cloudy	W. Line.
Missoula, Fort, Montana	27.04	686.8	30.34	770.6	43	6.1	68	nw.	3	1.3	.....	.....	9 s	.....	.....	0	0	cloudy	J. H. Young.
Mobile, Alabama	30.11	764.8	30.15	765.8	62	16.7	85	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.91	759.7	30.14	765.5	61.4	16.3	79	calm	0	0	.....	2 ck	0	w.	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.89	733.8	29.87	758.7	47	8.3	86	e.	2	0.9	.....	0	0	.....	.....	0.17	4.3	clear	H. Bessaut.
Mt. Washington, N. H.	23.78	604.0	29.96	761.0	31.0	— 0.6	100	nw.	46	20.6	.....	2 k	fg.	.....	nw.	0.98	24.9	clear	S. W. Beall.
Nashville, Tennessee	29.53	750.0	30.10	764.5	60.5	15.8	71	se.	3	1.3	.....	3 cs	0	sw.	.....	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.98	761.5	30.10	764.5	60	15.6	65	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.11	764.8	66	18.9	48	sw.	5	2.2	.....	3 c	0	s.	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.10	764.5	70.0	21.1	78	se.	6	2.7	.....	7 c	0	w.	.....	0	0	fair	H. C. Smyth.
New York, New York	29.94	760.5	30.12	765.0	59.5	15.3	01	calm	c	0	.....	0	0	.....	.....	0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.14	765.5	30.17	766.3	66	18.9	63	sw.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	26.97	685.0	29.84	757.9	47.6	8.7	84	nw.	12	5.4	.....	0	8 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.22	767.6	30.26	768.6	44.0	6.7	93	calm	0	0	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	J. Dascomb.
Omaha, Nebraska	28.64	727.4	29.80	756.9	60.0	15.6	84	n.	1	0.4	.....	3 cs	7 ks	.....	nw.	0.03	0.8	threatening	A. Pollak.
Ooglaamie, Alaska	29.91	759.7	29.92	760.0	29.8	— 1.2	100	wsw.	5	2.2	.....	.....	fg.	.....	.....	0	0	dense fog	P. H. Ray.
Oswego, New York	29.66	753.4	29.99	761.7	60.0	15.6	54	s.	0	2.7	.....	1 cs	0	.....	.....	0	0	clear	J. G. Linsley.
Palestine, Texas	29.41	747.0	29.96	761.0	68.0	20.0	90	s.	14	6.3	.....	.....	10 ks	.....	s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.17	766.3	62.8	17.1	84	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.05	763.3	30.15	765.8	63.5	17.5	73	w.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.66	448.6	29.72	754.9	6	—14.4	100	nw.	16	7.2	.....	.....	10 ks	.....	nw.	0.09	2.3	cloudy	H. Hall.
Pioche, Nevada	24.22	615.2	30.14	765.5	40.0	4.4	62	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.31	744.5	30.11	764.8	54.5	12.5	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Poplar River, Montana	27.92	709.2	30.04	763.0	.....	.....	.....	se.	.....	.....	4	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.26	743.2	29.94	760.5	59.9	15.5	70	sw.	12	5.4	.....	5 ck	0	w.	.....	0	0	fair	M. H. Perry
Portland, Maine	29.95	760.7	30.00	762.0	56	13.3	62	w.	4	1.8	.....	2 c	0	n.	.....	0.02	0.5	clear	W. W. Eichelberger
Portland, Oregon	30.30	769.6	30.37	771.4	50.0	10.0	77	calm	0	0	.....	.....	10 s	.....	n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	65	18.3	84	nw.	5	2.2	.....	10 cs	0	.....	.....	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.79	629.7	29.89	759.2	45.5	7.5	43	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	30.02	762.5	30.05	763.3	55	12.8	69	nw.	7	3.1	.....	1 cs	0	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.15	765.8	30.16	766.1	70.5	21.4	78	e.	8	3.6	.....	3 c	0	nw.	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.71	754.6	30.06	763.5	70	21.1	23	n.	20	8.9	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.34	745.2	30.00	762.0	60	15.6	57	sw.	15	6.7	.....	5 c	hz.	.....	.....	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.80	756.9	30.35	770.9	43	6.1	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.87	758.7	29.95	760.7	69.5	20.8	66	nw.	15	6.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.32	744.7	29.91	759.7	59.2	15.1	92	se.	9	4.0	.....	6c;fg	1 s	.....	.....	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.97	761.2	30.01	762.2	35	1.7	89	n.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.97	735.8	29.81	757.2	54.5	12.5	86	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.98	736.1	29.84	757.9	48	8.9	86	nw.	5	2.2	.....	.....	9 ks	.....	nw.	0.02	0.5	cloudy	C. B. Dilley
Salt Lake City, Utah	25.89	657.6	30.21	767.3	44	6.7	47	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.21	741.9	29.91	759.7	71	21.7	84	s.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	J. H. Davis.
San Diego, California	29.85	758.2	29.92	760.0	59.6	15.3	87	s.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	30.08	764.0	30.11	764.8	61.0	16.1	72	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
Sanford, Florida	30.15	765.8	.....	.....	72	22.2	79	se.	2	0.9	.....	4 c	fg.	w.	.....	0	0	fair	J. B. Marbury.
San Francisco, California	29.86	758.4	29.93	760.2	61	16.1	72	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.19	589.0	29.80	756.9	47	8.3	24	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.13	765.3	30.22	767.6	67	19.4	73	s.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.60	675.6	30.20	767.1	40	4.4	82	w.	5	2.2	.....	3 k	0	nw.	.....	inap	inap.	clear	A. L. Mathews.
Shreveport, Louisiana	29.75	755.6	29.99	761.7	68.0	20.0	84	se.	5	2.2	.....	.....	9 ks	.....	s.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.53	724.6	29.75	755.6	65.5	18.6	80	s.	10	4.5	.....	0	7 ks	.....	s.	0	0	fair	W. M. Mattingly.
Sitka, Alaska	29.82	757.4	29.88	758.9	48.5	9.2	60	e.	12	5.4	.....	.....	10 s	.....	e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.42	747.3	29.89	759.2	67.0	19.4	78	s.	2	0.9	.....	.....	10 ks	.....	s.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.18	766.6	30.22	767.6	62	16.7	78	w.	5	2.2	.....	10 c	0	.....	.....	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.27	718.6	30.34	770.6	44.8	7.1	76	n.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	John F. Hemenway.
Springfield, Illinois	29.21	741.9	29.88	758.9	61.5	16.4	75	s.	9	4.0	.....	3 c	4 s	w.	sw.	0	0	fair	T. B. Jennings.
Springfield, Missouri	28.42	721.9	29.84	757.9	61	16.1	84	se.	12	5.4	.....	.....	10 s	.....	sw	0	0	cloudy	J. H. Bryce.
Starkville, Miss	29.05	753.1	30.12	765.0	62	16.7	75	s.	8	3.6	.....	3 c	0	w.	.....	0	0	clear	C. Dill.
Stevenson, Fort, Dakota	28.14	714.7	29.96	761.0	48	8.9	80	n.	16	7.2	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Stockton, Fort, Texas	26.82	681.2	29.83	757.7	64	17.8	73	sw.	4	1.8	.....	10 k	0	sw.	.....	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass	30.00	762.0	30.05	763.3	54.5	12.5	77	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.17	690.1	29.84	757.9	54	12.2	64	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.29	744.0	29.97	761.2	64	17.8	68	s.	9	4.0	.....	6 ck	0	w.	.....	0	0	fair	A. Buell.
Tucson, Arizona	27.50	698.5	29.84	757.9	57	13.9	53	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	30.13	765.3	30.16	766.1	37	2.8	82	sw.	6	2.7	.....	1 k	0	.....	.....	0	0	clear	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	54	12.2	34	se.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.85	758.2	30.10	764.5	63.0	17.2	84	se.	5	2.2	.....	1 c	0	.....	.....	0	0	clear	James Kenealy.
Visalia, California	29.54	750.3	29.91	759.7	59.4	15.2	69	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.60	624.8	30.08	764.0	31.1	— 0.5	88	calm	0	0	.....	7 k	0	.....	.....	0	0	fair	T. M. Ambler.
Washington, D. C.	30.05	763.3	30.16	766.1	57.5	14.2	78	calm	0	0	.....	5 c	hz.	w.	.....	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	25.98	659.9	29.83	757.7	45	7.2	89	w.	7	3.1	.....	2 c	7 s	w.	nw	0.17	4.3	cloudy	F. H. Brandenburg.
Williamsport, Pa.	29.53	750.0	30.13	765.3	54	12.2	70	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.18	766.6	30.23	767.8	63	17.2	78	w.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.91	658.1	30.20	768.6	36.5	2.5	61	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.56	725.4	29.84	757.9	54	12.2	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.66	753.4	29.81	757.2	65.9	18.8	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	56.0	13.3	77	nw.	1	0.4	.....	.....	10 ks	.....	nw.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.06	763.5	.....	.....	82	calm	0	0	.....	3 cs	4 s	e.	e.	0.23	5.8	fair	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.07	763.8	79.5	26.4	89	ese.	.....	.....	2	4 c	5 k	e.	e.	0.500	12.7	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.36	745.7	29.92	760.0	78	25.6	89	calm	.....	.....	0	5 c	1 s	calm	calm	0.09	2.3	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	80.5	26.9	90	ne.	.....	.....	1	s	9 ks	e.	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallce
Santiago de Cuba, W. I.	30.06	763.5	30.08	764.0	79	26.1	65	nw.	8	3.6	.....	0	0	.....	.....	0	0	.....	R. Mason.
York Factory, B. A.	29.86	758.4	29.92	760.0	35.5	1.9	95	sw.	20	8.9	.....	1 c	3 s	sw.	sw.	0.10	2.5	.....	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 41° 21′, E. 18° 50′	30.11	764.8	69	20.6	80	calm			0		10					sm'h		overcast.
H. M. S. Dido, N. 36° 00′, W. 61° 52′	30.11	764.8	80	26.7		ene.			3		1	e.						blue sky.
H. M. S. Iris, Port Said, Egypt	29.99	761.7	71	21.7	90	nnw.			2		8	nnw.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.06	763.5	69.5	20.8	80	wsw.			1		8	sw.						d. clouds.
H. M. S. Opal, Madeira Islands	29.95	760.7	70	21.1	90	wsw.			5–6		6	wsw.						heavy sho'rs
H. M. S. Rocket, N. 43° 41′, W. 22° 08′	30.00	762.0	60	15.6	94	nnw.			1		5	nnw.				2	sse.	d. clouds.
H. M. S. Tyne, N. 16° 41′, W. 62° 29′	30.04	763.0	80	26.7	78	ese.			5		5	calm				2	ese.	d. clouds.
H. M. S. Tenedos, N. 44° 56′, W. 60° 29′	29.69	754.1	46	7.8	92	wsw.			3		10					3	ssw.	overcast.
U. S. Navy Yard, Pensacola, Fla	30.16	766.1	67	19.4	60	ne.	3	1.3			0			0	0			clear.
U. S. Navy Yard, Portsmouth, N.H.*	29.95	760.7	55	12.8	81	nw.	4	1.8			0			0	0			clear.
U. S. S. Alliance, Norfolk, Va	30.17	766.3	62	16.7	77	sw.			1		5			0	0			fair.
U. S. S. Colorado, New York, N. Y	30.17	766.3	69	20.6	35	sw.	5	2.2			2			0	0			clear.
U. S. S. Franklin, Norfolk, Va	30.15	765.8	62	16.7	77	wsw.	6	2.7			2		w.	0	0			fair.
U. S. S. Jamestown, Newport, R.I*†	30.06	763.5	57	13.9	75	calm			0		2							clear.
U. S. S. Kearsarge, New York, N.Y	30.13	765.3	63	17.2	83	ssw.			1		0							clear.
U. S. S. Lancaster, Kronstadt, Russia	29.80	756.9	58	14.4	76	nw.			2		10		nw.			sm'h		cloudy.
U. S. S. Michigan, Erie, Pa	29.96	761.0	64	17.8	58	sw.			4		2		sw.					fair.
U. S. S. Minnesota, New York, N. Y	30.03	762.7	62	16.7	66	w.			2		0							hazy.
U. S. S. New Hampshire, Newport, R. I	30.06	763.5	56	13.3	81	calm			0		0					sm'h		clear.
U. S. S. Portsmouth, Newport, R.I	30.13	765.3	52	11.1	93	nw.			1		2		nw.					clear.
U. S. S. Powhatan, N. 23° 27′, W. 83° 35′	30.11	764.8	80	26.7	93	ne.			2		5					sm'h	ne.	fair.
U. S. S. Quinnebang, Sierra Leone, Africa	29.98	761.5	84	28.9	79	wnw.			1		5		wnw.			sm'h		fair.
U. S. S. Saratoga, New York, N.Y	30.13	765.3	55	12.8	81	w.			1–2		8?		w	0	0	sm'h	w.	clear.
U. S. S. St. Louis, League Island, Pa	30.15	765.8	60	15.6	76	w.	1	0.4			2			0	0			clear.
U. S. S. Swatara, Key West, Fla †	30.07	763.8	78	25.6	78	n.			1		5		e.	0	0	sm'h		fair.
U. S. S. Tennessee, New York, N.Y	30.14	765.5	70	21.1	61	sw.	6	2.7			0			0	0			clear.
U. S. S. Vandalia, New York, N.Y	30.10	764.5	64	17.8	94	nw.			1		0							clear.
U. S. S. Wabash, Boston, Mass	30.06	763.5	55	12.8	74	nw.	1	0.4			2		nw.	0	0			clear.
U. S. S. Vantic, New York, N Y	30.12	765.0	62	16.7	77	wsw.			1		0							clear.
Commewyne, N. 43° 37′, W. 28° 28′	30.06	763.5	60	15.6	88	nne.			4		8							misty.
S. S. British Crown, N. 44° 46′, W. 41° 23′ †	30.05	763.3	66	18.9		sw.			5		9		sw.;nw	6 h'r	6 h'r	sm'h		
S. S. British Prince, N. 51° 09′, W. 13° 07′ †	29.88	758.9	54	12.2		nw.			6		9		nw.	6 h'r	6 h'r	mod.	w.	cloudy.
S. S. Illinois, N. 42° 36′, W. 43° 20′ *	30.02	762.5	70	21.1		ssw.			4		10		w.			mod.	sw.	overcast.
S. S. Lord Gough, N. 42° 27′ W. 61° 53′	29.81	757.2	45	7.2		wnw.			4		2			0	0	sm'h		clear.
S.S. Ohio, Philadelphia, Pa †	30.14	765.5	60	15.6	82	w.			1		6?		w.	0	0			clear?
S. S. Pennsylvania, Liverpool, Eng †	29.87	758.7	62	16.7		sw.			2		6		sw.					fair.
S. S. Circassian, N. 47° 50′, W. 48° 43′	29.66	753.4	38	3.3	100	ssw.			3		10			0	0	2	nne.	foggy.
S. S. Grecian, Glasgow, Scotland	29.79	756.7	63	17.2	83	ssw.			5		10		ssw.	0	0			overcast.
S. S. Nova Soctian, N. 47° 19′, W. 40° 30′	30.02	762.5	58	14.4		ssw.			4		10		s.			mod.	wsw.	cloudy.
S. S. Polynesian, Quebec, Canada	29.95	760.7	50	10.0		sw.			2		8		wsw.	0	0			cloudy.
S. S. Manitoban, Montreal, Canada	30.00	762.0	50	10.0	86	wnw.			3		4		n.	0	0			clear.
S. S. Scandinavian, Clock Light, Scotland *	29.60	751.8	54	12.2		ssw.			3		10			0	0			overcast.
S. S. Alene, N. 31° 07′, W. 74° 14′ †	30.25	768.3	70	21.1		w.			2		0			0	0	sm'h	sw.	fine.
S. S. Ailsa, Kingston, Jamaica, W. I			80	26.7										1 h'r	1 h'r			
S. S. Bolivia, N. 47° 50′, W. 35° 12′ *†	30.20	767.1	52	11.1		sw.			4		8		wsw.	0	0	sm'h	n.	cloudy.
S. S. Dorian, N. 42° 02′, W. 47° 56′	30.02	762.5	63	17.2		ssw.			6		10		sw.	sh'rs	sh'rs	sli't	sw.	cloudy.
S. S. Furnesia, New York, N. Y †	30.14	765.5	67	19.4	92	s.			1		1		w.	0	0			clear.
S. S. Llandaff City, New York, N. Y†	30.12	765.0	59	15.0		calm			0		0			0	0			clear.
S. S. Marathon, Fiume, Austria	30.00	762.0	74	23.3		w.			2		1		w.	0	0	sm'h	w.	clear.
S. S. Pavonia, N. 44° 34′, W. 45° 12′	29.85	758.2	66	18.9	89	ssw.			6		9		ssw.	4 h'r	4 h'r	mod.	sw.	overcast.
S. S. Colina, N. 49° 27′ W. 43° 44′ †	29.70	754.4				sse.			7		10			driz	driz	r'gh	s.	overcast.
S. S. Canada, N. 49° 03′, W. 18° 00′	29.84	757.8	64.4	18		nw.			2	ck	0	nw.				sm'h	nw.	rainy.
S. S. Ville de Marseilles, N. 20° 23′, W. 62° —			75	23.9		se.			3		2		se.	0	0	sm'h		clear.
S. S. Abyssinia, N. 43° 38′, W. 44° 20′	30.01	762.2	67	19.4	100	sw.			4		10		w.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Wisconsin, N. 41° 36′, W. 57° 08′			64	17.8		wnw.			2		6		w.	0	0	mod.	w.	fair
S. S. Bohemia, N. 49° 45′, W. 15° 13′						ssw.			4–6		10		nnw.	10 h'r	10 h'r	long	nw.	hazy.
S. S. Gellert, Hamburg, Germany			81	27.2	91	wsw.			1		10?		sw.	0	0			covered.?
S. S. Rugia, Hamburg, Germany	29.87	758.7	69	20.6		w.			5		3		w.	0	0			fair.
S. S. Silesia, La Guayra, Venezuela	30.06	763.5	78.5	25.8		nne.			2		6		ene.	0	0			cloudy.
S. S. Westphalia, N. 49° 13′, W. 26° 53′	30.12	765.0	51	10.6	93	n.			3		10		ne.			mod.	nw.	cloudy.
S. S. City of Paris, N. 49° 30′, W. 21° 14′						nw.			6				nw.			h'vy	nw.	squally.
S. S. Mentmore, N. 52° 54′, W. 5° 12′ *†	29.92	760.0				wsw.			6		2		wsw.	0	0	sm'h		fine.
S. S. Virginian, N. 50° 42′, W. 18° 14′ *	29.82	757.4	54	12.2		n.			6		1		n	7 h'r	7 h'r	mod.	n.	clear.
S. S. Archimedes, N. 14° 19′ W. 51° 34′	29.98	761.5				ene.			5		10		wsw.	0	0	light	ne.	overcast.
S. S. Colorado, N. 26° 02′, W. 86° 53′ †	30.15	765.8	78	25.6		se.			2		2		se.	0	0	small	se.	clear.
S. S. Rio Grande, N. 34° 07′, W. 76° 46′ *†	30.10	764.5	74	23.3		sw.			1		1		sw.	0	0			clear.
S. S. San Marcos, N. 26° 17′, W. 86° 30′			74	23.3		ese.			4		1		se.			mod.		clear.
S. S. Chalmette, New York, N.Y†	30.16	766.1	61	16.1		ssw.			2		0			0	0			clear.
S. S. New York, N. 34° 40′, W. 76° 00′			70	21.1		sw.			2		2		sw.			sm'h		clear.
S. S. Alleghany, Norfolk, Va †	30.21	767.3	70	21.1		sw.			4		0			0	0			clear.
S. S. Archimede, Bay of Gibraltar, Spain †	30.14	765.5	80	26.7	70	ene.			3		4		ne.	0	0			fair.
S. S. City of Merida, N. 38° 58′, W. 74° 30′ †	30.07	763.8	82.4	28.0		nw.			2		10		nw.	0	0	light	nw.	cloudy.
S. S. City of Washington, N. 20° 11′ W. 92° 00 †	30.08	764.0	79	26.1		var.			4		5		s.	0	0	sm'h		fair.
S. S. Denmark, London, Eng †	29.88	758.9	74	23.3		e.			3		2		e.	0	0			clear.
S. S. Egypt, N. 51° 21′ W. 14° 06′ *†	29.81	757.2	50	10.0		wnw.			3		10		nw.	3 h'r	3 h'r	mod.	wnw.	hazy.
S. S. Helvetia, N. 42° 39′, W. 42° 00′	30.11	764.8	71	21.7	90	sw.			4		10		wsw.	0	0	sli't	wsw.	cloudy.
S. S. Holland, N. 42° 59′, W. 42° 49′	30.01	762.2	68	20.0		sw.			4		10		sw.	0	0	sm'h	sw.	cloudy.
S. S. The Queen, N. 40° 31′ W. 60° 24′	29.84	757.9	61	16.1	74	wnw.			5		10		w.	8 h'r	8 h'r	mod.	w.	overcast.
S. S. America, N. 39° 56′, W. 70° 21′ *	30.09	764.3	52.0	11.1	93	w.			2		3		w.	0	0	sm'h	w.	clear.
S. S. Donau, N. 45° 00′, W. 36° 25′	30.15	765.8				s.			3		10		s.	0	0	sm'h	s.	cloudy.
S. S. Elbe, near Beachy Head, Eng	29.90	759.4	55	12.8	74	calm			0		0			0	0	sm'h		hazy.
S. S. Fulda, N. 40° 29′, W. 57° 42′	29.89	759.2	73	22.8	63	w.			5		3		wsw.	0	0	mod.	w.	clear.
S. S. Hohenstaufen, N. 48° 51′, W. 27° 20′	30.02	762.5				nnw.			4–5		9		nnw.	5½ hr	5½ hr	mod.	nw.	cloudy.
S. S. Ocer, Sandy Hook, N.J	30.12	765.0	54.5	12.5		wsw.			1		0			0	0	sm'h		clear.
S. S. Ohio, N. 50° 13′, W. 1° 49′	29.91	759.7				w.			0–1		7		n.	0	0	sm'h	n.	fair.
S. S. Strassburg, N. 37° 50′, W. 74° 02′	30.20	767.1	75.0	23.9	56	w.			2		5		w.	0	0	2	w.	fair.
S. S. Werra, N. 40° 50′ W. 69° 59′	30.07	763.8	56	13.3		w.			5		6		wnw.	4 h'r	4 h'r	r'gh	wnw.	fair.
S. S. Weser, N. 37° 01′, W. 75° 27′	30.22	767.6				w.			1–2		0			0	0	sm'h		clear.
S. S. Orinoco, N. 34° 21′, W. 66° 45′ *†	30.10	764.5	74	23.3		nw.			4		0			0	0			clear.
S. S. Colon, Aspinwall, Panama †	29.91	759.7	79	26.1		ne.			4		10		ne.	4 h'r	4 h'r	sm'h	nw.	overcast
S. S. City of Augusta, New York, N.Y†	30.07	763.8				ssw.			2		6		sw.	0	0			fair.
S. S. Belgenland, N 44° 20′, W. 37° 30′ †	30.24	768.1	61	16.1	88	sse.			4		10		w.	0	0	sm'h		foggy.
S. S. Nederland, N. 41° 56′, W. 42° 44′ †*	30.19	766.8	67	19.4		ssw.			4		10		ssw.	0	0	mod.	wsw.	cloudy.
S. S. Rhynland, Jersey City, N. J	30.10	764.5	66	18.9	89	wsw.			4		3		w.	0	0			clear.
S. S. Pennland, New York, N.Y			60	15.6	88	s.			2		1		s.	0	0			clear.
S. S. Waesland, Antwerp, Belgium	29.98	761.5	84	28.9		ese.			3		5		sw.	0	0			fair.
S. S. P. Caland, N. 45° 46′, W. 33° 00′	30.17	766.3	54.5	12.5	74	s.			2		7		sw.			3	n.	fair.
S. S. Leerdam, N. 40° 28′, W. 63° 32′	29.91	759.7	56	13.3	87	nnw.			3		9		nw.			sm'h		cloudy
S. S. W. A. Scholten, N. 46° 43′, W. 26° 34′	30.10	764.5	54.0	12.2	74	ne.			4		7		ne.	0	0	sm'h	nnw.	fair.
S. S. Zaandam, N. 40° 30′, W. 69° —	30.08	764.0	51.1	10.6	89	sw.			1		0			0	0			clear.
S. S. Caracas, N. 37° 42′, W. 72° 40′ †	30.22	767.6	62	16.7	88	ssw.			1		hz.			0	0	mod.	sw.	hazy.
S. S. Claudius, N. 41° 00′, W. 48° 50′ †	30.19	766.8	70.0	21.1	85	sw.			4		8		wsw.	rain	rain	r'gh	sw.	cloudy.
S. S. Valentia, Puerto Cabello, Venezuela †	30.12	765.0	82	27.8	87	ene.			1		7		ene.	5 h'r	5 h'r			fair.
S. S. State of Florida, N. 40° 30′, W. 68° 26′	30.20	767.1	52	11.1		nnw.			3		8		n.	0	0	sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. State of Nebraska, N. 45° 00′, W. 42° 20′*†	29.96	761.0	62	16.7		ssw.			5		8		wsw.	0	0	sm'h		hazy.
S. S. State of Nevada, Glasgow, Scotland †	29.68	753.9	57	13.9		ssw.			5		1		ssw.	0	0			clear.
S. S. Dominion, N. 49° 06′ W. 41° 24′*†	29.86	758.4	54	12.2		s.			4		10		ssw.			mod.	s.	cloudy.
S. S. Toronto, N. 48° 42′, W. 49° 21′	29.55	750.6	41	5.0		sw.			1		fg.			0	0	sm'h		covered.
S. S. Lake Huron, N. 55° 12′ W. 18° 28′	29.66	753.4	46	7.8		w.			2		5		wnw.	2 h'r	2 h'r	mod	wnw.	hailing.
S. S. Lake Manitoba, N. 48° —′. W. 49° 30′	29.63	752.6	42	5.6		wsw.			4					0	0	sm'h		dense fog.
S. S. Olbers, N. 49° 00′. W. 7° 52′†	29.98	761.5	60	15.6		s.			3		9		nnw.	0	0	sm'h		gloomy.
S. S. Daniel Steinmann, Antwerp Belguim†	29.88	758.9	66	18.9		se.			3		4		se.	0	0			fair.
S. S. Planlyn, N. 49° 45′, W. 10° 11′	29.77	756.1							4		4		sse.	7½h'r	7½h'r	long	s.	fair.
S S. Norman, N. 42° 23′, W. 71° 05′						calm			0		0			0	0			clear.
S. S. Saxon, N. 39° 04′, W. 75° 04′†	30.14	765.5				calm			0		1			0	0			clear.
S. S. Baltic, N. 48° 24′, W. 34° 12′*	30.12	765.0	50	10.0	86	sse.			2		5		se.	0	0	mod.	var.	fair.
S. S. Celtic, N. 48° 00′ W. 33° 44′†	30.04	763.0	58	14.4		se.			3		10		se.	0	0	light	ne.	cloudy.
S. S. Antonio Lopez, Santander, Spain	29.98	761.5	62.5	16.9	80	wnw.			2		10			0	0			cloudy.
Schr. Abbie H. Gheen, Mayport, Fla†	30.20	767.1	70	21.1		calm			0					0	0			clear.
Bg. Abbie Clifford, N. 34° 00′ W. 69° 00′†	30.07	763.8	72	22.2		nnw.			4		2			0	0	mod.	nw.	clear.
Bk. Alpha, N. 51° 25′, W. 25° 30′*†	30.00	762.0	49	9.4		nnw.			5		8		n.	0	0	long	nw.	cloudy.
Bg. Alcira, Maracaybo, Venezuela	29.94	760.5	84	28.9		e.			1		1		e.	0	0			clear.
Bk. Adelaide, N. 6° 40′, W. 30° 43′*†	30.06	763.5	83	28.3		ne.			5		1		ne.	0	0	sm'h	ne.	hazy
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.19	766.8	85	29.4		ene.			1		4		e.	1 h'r	1 h'r			clear.
Schr. Authur Burton, St. Simon's Island, Ga*†	30.14	765.5				calm			0		1			0	0			fine.
Bk. Aureola, N. 26° 31′, W. 60° 25′†	30.10	764.5	84	28.9		se.			2		5		se.	1 h'r	1 h'r	mod.	ene.	fair.
Bk. Achille F, N. 3° 15′, W. 26° 30′†	29.99	761.7	79.5	26.4	93	ene.			1		6		se.	14 h'r	14 h'r	long	sse.	
Bg. Arda, N. 43° 35′, W. 68° 35,*†	30.05	763.3				sw.			3		3		sw.	0	0	long	ssw.	clear.
Bg. Annie R. Storer, N. 33° 17′ W. 72° 35′†	30.28	769.1				nnw.			1		1			0	0	sm'h	nw.	clear.
Bgt. Achsah, N. 17° 25 W. 63° 00′†	30.04	763 0	83	28.3		ne.			2		2		ne.	0	0	mod.	ene.	clear.
S. S. Burswell, N. 37° 14′, E. 10° 44′ *†	30.15	765.8	75	23.9		e.			3		4		calm	0	0	sm'h		fine.
Bg. Belle of the Bay, N. 24° 38′, W. 83° 00′†	30.18	766.6				ene.			2		4		e.	0	0	sm'h	e.	clear.
Bk. Champion, N. 28° 18′, W. 70° 34′			78	25.6	82	nne.			1		1		n.	0	0	g'tle	nnw.	fair.
Schr. C. R. Flint, N. 34° 52′, W. 72° 54′†	30.17	766.3	66	18.9		wsw.			4		2		w.	0	0	sm'h	sw.	clear.
Bk. Childwall, N. 33° 25′. W. 32° 49′			70	21.1		calm			0		5		n.	0	0	light		fine.
Schr. Clotilde, N. 24° 00′, W. 80° 10′*†	30.11	764.8	85	29.4		se.			4		2		se.	0	0	sm'h		clear.
S. Criterion, N. 58° 49′, W. 11° 00′ *†.	29.50	749.3				w.			2		4		wnw.	sh'rs	sh'rs	light	nw.	fine.
S. David Stewart, N. 31° 08′, W. 47° 00′†	30.15	765.8				ssw.			3		1		sw.	0	0	sm'h		clear.
S. S. D. J. Foley, N. 20° 22′ W. 74° 10′*†	30.10	764.5	83	28.3	79	se.			2		2		se.	0	0	short	se.	clear.
Btk. David A. Preston, N. 18° 35′, W. 74° 40′			85	29.4		e.			4		10		e.	0	0	mod.	se.	
Schr. Edith R. Seward, N. 15° 53′ W. 83° 18′†	30.06	763.5	89	31.7		ne.			2		5		ne.	10 minutes		sm'h	e.	fair.
S. E. J. Spicer, Liverpool, Eng	29.80	756.9	65	18.3	89	wsw.			3		5		w.	0	0			fair.
Bk. E. D. Bigelow, N. 44° 37′, W. 40° 36′*†	29.98	761.5	69	20.6		sw.			3		8		wsw.			sm'h		light rain.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	30.25	768.3	67	19.4	79	nne.			1		3		ne.	0	0			clear.
H. P. M. S. Rio Lima, Porto Praya, Cape Verd Ids			80.6	27.0	74	ne.			2		0					2		blue sky.
Schr. F. E. McDonald, N. 28° 38′ W. 79° 10′ †	30.23	767.8				ese.			1					0	0			clear.
Bk. George Davis, N. 43° 44′, W. 38° 58′						sw.			4					2 h'r	2 h'r		nne.	foggy.
Bk. Gronsvaer, N. 24° 53′, W. 62° 48′†	30.14	765.5	81.0	27.2		se.			2		2		ese.	½h'r	½h'r	sm'h		clear.
Bk. Galeon, N. 20° 49′, W. 90° 33′ †	30.02	762.5	80	26.7		ese.			2		0			0	0	sm'h	se.	blue sky.
S. Hedwig, N. 39° 41′, W. 22° 02′	30.06	763.4	61.5	16.4	90	n.			3		5		n.	0	0	1	n.	fine.
Bk. Hattie G. McFarland, Port Royal, S C*†	30.18	766.6	70	21.1		sse.			1		3		w.	0	0			
Bk. John H. Pearson, N. 24° 06′, W. 19° 58′						ne.			1				ne.	0	0	long	ne.	clear.
Schr. Isabel Alberto, Jersey City, N. J †	30.10	764.5				wsw.			2		0			0	0			clear.
Bk. Cato, N. 60° 06′, W. 4° 30′*†	29.57	751.1				wsw.			3		5		wsw.	rain	rain	long	wsw.	raining.
Bk. Johanne, N. 40° 37′, E. 2° 04′*†	30.05	763.3	72	22.2		sse.			2		2		s.	0	0	sm'h		fine.
Schr. John L. Thomas, N. 34° 42′, W. 73° 10′*†	30.20	768.6				wsw.			2		0			0	0	light	ene.	clear.
Bg. John Wesley, N. 32° 34′, W. 72° 48′ *†	30.17	766.3				ne.			2		1			0	0	cross	var.	clear.
Schr. Jennie N. Huddell, N. 35° 52′, W. 75° 19′†	30.20	767.1	64	17.8	83	wsw.			3		5		nw.	0	0	sm'h		hazy.
Bkt. Josephine, N. 31° 04′, W. 67° 00′ †	30.15	765.8	72	22.2	62	nw.			4		1		n.	0	0	mod.	wnw.	clear.
Schr. Leonessa, Tappahannock, Va†	30.11	764.8				w.			1		0			0	0			clear.
Bg. L. & W. Armstrong, N. 37° 46′, W. 70° 22′ *†	30.16	766.1				n.			5		0			0	0	sm'h	wnw.	clear.
Light-house Tender Laurel, Pensacola Bay, Fla†	30.17	766.3	70	21.1		ne.			2		1			0	0			clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	79	26.1		e.			1		6		e.	0	0			fair.
Bk. Milo, N. 49° 14′, W. 20° 12′†	29.90	759.4				nnw.			0				nw.			short	n.	fine.
S. S. Madrid, Cartagena, Spain†	30.10	764.5	74	23.3	63	ene.			3		0			0	0			clear.
Schr. Minnie A. Bonsall, Hoboken, N. J†	30.10	764.5	62	16.7		sw.			1		0			0	0			clear.
Bkt. Kryohth, N. 59° 40′, W. 47° 30′ *†	29.74	755.4				n.			2		2		ne.	0	0	sm'h		fine.
Bk. Matilda C. Smith, N. 40° 30′, W. 49° 00′ †	30.00	763.5				ssw.			0		8		sw.	sh'rs	sh'rs	mod.	se.	gloomy.
Bgt. Myrtle, N. 28° 50′ W. 59° 37′*†	30.25	768.3				ssw.			2		1		ssw.	0	0			clear.
Bk. Mathais, N. 41° 47′, W. 33° 45′ *†	30.29	769.4	61	16.1		nnw.			2		8		sw.	2 h'r	2 h'r	sm'h		fair.
S. S. Mendoza, N. 27° 01′, W. 66° 05′						nw.			2				nw.	0	0	sm'h	nw.	overcast.
Schr. Maud Briggs, Barbadoes, W. I*†.	30.12	765.0				ene.			4		5		ene.	1 h'r	1 h'r			fair.
Bk. Ottawa, N. 39° 50′, W. 33° 03′*	30.10	764.5	65	18.3		w.			4		10			½ hr	½ h'r	small	nw.	foggy.
S. S. Raleigh, N. 34° 30′, W. 73° 45′†	30.23	767.8	69	20.6		wsw.			1		0							fine.
Bg. Rising Sun, N. 30° 10′, W. 68° 50′*†	30.10	764.5	60	15.6		wnw.			1		10		nw.	0	0	mod.	w.	
Bk. Rosalie, St. John, Antigua*†	30.11	764.8				ene.			2					0	0			clear.
Bk. Rosino, N. 38° 40′, W. 69° 20′			68	20.0		nne.			5		0			0	0	sm'h	nne.	clear.
Bk. Scud, N. 30° 37′, W. 56° 07′*†	30.12	765.0	76	24.4		ssw.			5		4		ssw.	0	0	mod.	e.	clear.
Bk. Southern Belle, N. 35° 10′. W. 14° —†	29.97	761.2	66	18.9		wsw.			2		8		w.	0	0	mod.		cloudy.
S. St. Francis, N. 44° 19′, W. 36° 45′			60	15.6	88	se.			4		9		se.	10 h'r	10 h'r	sm'h	s.	misty.
S. S. Strathleven, N. 39° 54′, W. 63° 43′	30.03	762.7	47.2	8.4	98	w.			3		4		w.	0	0	1	sw.	d. clouds.
Bgt. Sunlight, N. 20° 48′, W. 62° 52′						e.			3		5		e.	2 h'r	2 h'r	mod.	se.	fair.
Bg. Teneriffe, N. 29° 02′ W. 74° 05′*	30.13	765.3				ne.			1		0					sm'h		
Bk. Tuck Sing, N. 19° 47′, W. 75° 45′†*	30.02	762.5				ene.			3		0			0	0	long	se.	fine.
Bk. Usko, N. 42° 32′, W. 24° 47′*	29.99	761.7	61	16.1		nnw.			2		2		nw.	0	0	mod	se.	fair.
Schr. Viola Reppard, Cape Cod, Mass†	30.03	762.7	56	13.3		nnw.			1		0			0	0	sm'h		clear.
Bkt. Wandering Jew, N. 31° 54′, W. 72° 05′†	30.28	769.1	69	20.6		calm			0		5		nw.	0	0	long	wsw.	fair.
Bk. Winifred, N. 34° 26′, W. 72° 15′*†	30.15	765.8												0	0	sm'h	w.	clear.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.40	772.1	48.2	9.0	92	ssw.			6		0					3	ssw.	blue sky.
H. M. S. Boadicea, Cape Town, Cape Colony	29.86	758.4	64	17.8	94	wnw.			2		0							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.10	764.5	50.7	10.4	64	ssw.			5		7	calm						d. clouds
H. M. S. Thetis, S. 9° 41′, W. 24° 12′	30.10	764.5	79	26.1	78	e.			3		3					2	sse.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.10	764.5	51	10.6	86	ssw.	20	8.9			8		ssw.	0	0	r'gh	ssw.	cloudy.
U. S. S Galena, Montevideo, Uruguay*	30.10	764.5	51	10.6	72	ssw.			6		10		ssw.			rg'h	ssw.	foggy.
May Hulse, S. 39° 38′, W. 32° 35′	29.22	742.2	61	16.1	88	n.			8		10							raining.
S. S. Hevelius, S. 32° —′, W. 49° 30′†	29.92	760.0	60	15.6		sw.			9		fg.		sw.	0	0	high	sw.	cloudy.
Bk. Alpheus Marshall, S. 30° 02′, E. 16° 15′*†	29.07	753.6				n.			5		8		n.	3 h'r	3 h'r	r'gh	w.	threatening
Bk. Horace Scudder S. 7° 47′, W. 2° 22′*†	30.10	764.5	76	24.4		sse.			2		2		calm	0	0	small	se.	clear.
S. Mt Washington, S. 9° 50′, W. 33° 30′ *†	30.13	765.3	82.3	27.9	83	ese.			1		2		ese.	3 h'r	3 h'r	sm'h		clear.
S. Minnie N. Gerow, S. 35° 04′ W. 2° 38′†	29.64	752.8	52	11.1		wsw.			6		5		w.	0	0	h'vy	w.	fair.
S. Paramita, S. 5° 41′, W. 32° 30′†	29.99	761.7	81	27.2		var.			3		1		ene.	0	0	small	s.	clear.
S. Wm. McGilvery, S. 6° 00′, W. 33° 37′*†	30.10	764.5	83	28.3	83	sse.			3		9		sse.	0	0	sm'h		cloudy.
S. S. Hermod, S. 20° 35′, W. 38 12′†	29.90	759.4	82.4	28.0		nw.			7		8		nw.	6 h'r	6 h'r	r'gh	nw.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.75	755.6	66	18.9	89	n.			4-6		4	ne.						squally.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Champion, N. 1° 43′, E. 110° 32′	29.67	753.6	85	29.4	96	nw.			1		1					1	e.	d. clouds.
H. M. S. Sappho, N. 13° 54′, W. 90° 49′	29.93	760.2	81	27.2	96	ne.			1		5	se.				6	s.	d. clouds.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 21′	29.56	750.8	56.5	13.6	97	ssw.			1		10							raining.
H. M. S. Magpie, N. 8° 22′, E. 116° 53′	29.80	756.9	84.5	29.2	79	e.			2		4					1	w.	d. clouds.
H. M. S. Swiftsure, Esquimalt, V. I.	30.38	771.6	54	12.2	100	calm			0		10	wsw.						raining.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.70	754.4	69	20.6	85	s.			1		4							d. clouds.
H. P. M. S. Tamega, Macao, China	29.76	756.0	84.2	29.0	85	sw.			3		2			2 h'r	2 h'r			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.81	757.2	65.5	18.6	92	sw.			4		0			0	0			clear.
U. S. S. Adams, Juman, Alaska †	30.01	762.2	45	7.2	84	se.			1		5					sm'h		fair.
U. S. S. Hartford, N. 19° 20′, W. 154° 00′ *	29.99	761.7	70	21.1	90	sw.			0–1		2			sh'rs	sh'rs	sm'h		clear.
U. S. S. Monocacy, Roze Id, Corea	29.55	750.6	69	20.6	56	ssw.			2		10		calm					rainy.
U. S. S. Palos, Hong Kong, China	29.65	753.1	82	27.8	83	calm			0		8		s.					cloudy.
U. S. S. Richmond, Hong-Kong, China *	29.64	752.8	81	27.2	96	s.			2		2		sw.	1.8	46.			clear.
S. S. Coptic, Yokohama, Japan	29.67	753.6	67.5	19.7	46	var.			5		7		sw.	3 h'r	3 h'r	sli't	sw.	fair.
S. S. Oceanic, N. 23° 00′, E. 116° 27′ *	29.71	754.6	82	27.8	87	ssw.			4		5		wsw.			sm'h		fair.
S. S. City of Chester, off Humboldt bar, Cal †	30.21	767.3	51	10.6	79	nw.			4		0			0	0	long	nw.	clear.
S. S. Willamette, Seattle, Wash. Ter * †	30.43	772.9	53	11.7	93	calm			0		4		wnw.	0.06	1.5			squally.
S. S. Queen of the Pacific, N. 42° 00′, W. 123° 36′ †	30.29	769.4				nnw.			6		0			0	0		nw.	clear.
S. S. State of California, N. 40° 16′, W. 124° 30′ †	30.12	765.0	50	10.0	79	nw.			5		0					short	nw.	clear.
S. S. City of Pekin, N. 47° 08′, W. 158° 15′ †	30.28	769.1	41	5.0	82	w.			3		10		w.	0	0	mod.	w.	cloudy.
S. E. B. Sutton, N. 39° 30′ W. 134° 20′ †	30.46	773.7	58	14.4	94	ene.			2		2		w.	0	0	sm'h		clear.
S. S. City of Rio de Janeiro, N. 37° 22′, W. 163° 57′ †	30.21	767.3	57	13.9	63	ne.			2		8		ssw.	0	0	mod.	nnw.	cloudy.
S. S. Granada, Panama Bay, Panama †	29.86	758.4	80	26.7	91	nw.			1		5			0	0			fair.
S. S. San Blas, Acapulco, Mexico			75	23.9		e.			2		10		ssw.	10 h'r	10 h'r	small	s.	raining.
S. S. San José, Mazatlan, Mexico	29.95	760.7	74	23.3		e.			2		2 k		ene.	2 h'r	2 h'r	long	wsw.	clear.
S. Armenia, N. 37° 55′ W. 132° 50′ *	30.29	769.4	61	16.1	82	nne.			5		4		nne.	0	0	r'gh	nne.	fair.
Bk. Bore, Macassar, Celebes Id * †	30.18	766.6	86	30.0		ese.			1									
S. Grecian, N. 23° 25′, E. 136° 20′ †	29.83	757.7	80	26.7	78	nnw.			2		2		nnw.	0	0	mod.	ne.	clear.
S. S. Malabar, Singapore, Malay Peninsula						var.					0			0	0	sm'h		clear.
S. S. Radnorshire, N. 15° 22′, E. 113° 00′ * †	29.76	755.9				sse.			2		3		sw.	c	0	sli't	s.	clear
S. Titan, N. 39° 09′, W. 137° 56′ * †	30.45	773.4	63	17.2	94	e.			3		4		e.	0	0	sm'h	nw.	fair.
Bk. Xenia, N. 28° 56′, E. 123° 40′ * †	29.76	755.9	68	20.0		nnw.			6		10		nnw.	5 h'r	5 h'r	sm'h		rainy.
U. S. S. Ranger, Acapulco, Mexico	29.99	761.7	78	25.6	86	ene.			3		10			1.08	27.4	sm'h		rainy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W.			60	15.6	88	n.			1–3		5	sw.						showery.
H. M. S. Espiegle, S. 10° 57′, E. 178° 46′	29.92	760.0	82	27.8	79	ese.			3		2					2	ese.	d. clouds
H. M. S. Kingfisher, S. 25° 50′, W. 143° 24′	30.11	764.8	74	23.3		ene.			4–6		9					7	e.	squally.
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.90	759.4	54	12.2		ene.			2							2	ene.	d. clouds
H. M. S. Nelson, S. 24° 10′, E. 173° 10′	20.75	755.6	72	22.2	90	e.			1		2	ne.				1		d. clouds.
U. S. S. Iroquois, Valparaiso, Chili	29.97	761.2	54	12.2	93	ne.			2		0					sm'h		clear.
U. S. S. Lackawanna, S. 31° 28′, W. 122° 55′ *	29.95	760.7	64	17.8	67	s.			5		8		se.			mod.	sse.	cloudy.
U. S. S. Onward, Callao, Peru * †	30.10	764.5	63	17.2	83	se.			2		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.94	760.5	63	17.2	89	sse.	7	3.1			10		sse.	0	0			cloudy.
U. S. S. Wachusetts, S. 20° 41′, W. 170° 17′	29.87	758.7	73	22.8	81	s.			3		5		s.			mod.	s.	fair.
S. S. Australia, S. 32° 38′, E. 178° 19′	29.90	759.4	75	23.9	95	s.			3		1		s.	0	0	long	se.	clear.
S. S. City of Sydney, Sydney, N. S. W * †	29.72	754.9	57	13.9	69	w.			2	2 c	k	w.		0	0			clear.
S. S. Zealandia, S. 23° 48′, W 175° 48′	29.68	753.9	75	23.9	90	e.			2		0					sm'h		clear.
S. David Crocket, S. 1° 07′, W. 113° 10′ *	29.86	758.4	78	25.6	82	se.			2		3		se.	1 h'r	1 h'r	sm'h	sse.	clear.
H. M. S. Lark, S. 16° 55′, E. 156° 43′	29.94	760.5	76.3	24.6	91	e.			3		5					2	e.	d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′ E. 44° 58′	29.63	752.6	86	30.0		ssw.			2		5	sw.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.64	752.8	89	31.7	69	wsw.			3		6	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.99	761.7	78	25.6	91	sse.			2		4	sse.				3	ssw.	showery
H. M. S. Tourmaline, N. 18° 45′, E. 58° 10′	29.67	753.6	79	26.1	91	sw.			4		2	w.				2	sw.	misty.
H. M. S. Woodlark, N. 29° 24′ E. 49° 19′	29.63	752.6	86	30.0	96	nw.			5–6		0					3	nw.	misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony *	29.84	757.9	70	21.1	80	se.			1		5		e.			sm'h		fair
U. S. S. Juniata, Bombay, India	29.73	755.1	88	31.1	92	wsw.			2		5		sw.	0	0	sm'h		fair.
S. S. Salerno, N. 16° 16′, E. 63° 27′ †	29.84	757.9	88	31.1		wsw.			3		3		sw.	0	0	mod.	wsw.	clear.
S. Annie M. Law, S. 29° 33′, E. 44° 51′ * †	30.28	769.1	71	21.7		e.			1		1		e.	0	0	sm'h		clear.
Bk. Ceylon, S. 34° 52′, E. 22° 13′ * †	29.92	760.0	72	22.2	80	ese.			2		3		nne.	0	0	long	wsw.	clear.
S. Dynomene, S. 35° 05′ E. 21° 00′	29.80	756.9	65	18.3	94	nnw.			3		6			0	0	mod.	sw.	misty.
Bk. Pilgrim, Samarang, Java, Oceania * †	29.90	759.4				ese.			2		1		se.	0	0			clear.
S. St. David, Anjer, Java, Oceania * †	29.84	757.9	84	28.9	83	se.					smk		ese.	0	0			smoky.
S. S. Foscolia, N. 13° 07′ E. 43° 11′ †	29.79	756.7				n.			2		0			0	0	sli't	nnw.	clear.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 26, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.02	762.4	70.5	21.4	89	e.			1		2			0.047	1.2	fair	Malaterre.
Algiers			29.95	760.7	72.7	22.6	62	w.			7		7			inap.	inap.	very cloudy	Thève.
La Calle			30.04	763.0	76.6	24.8	40	nw.			1		2			0	0	fair	Fonfrède.
Tunis			30.07	763.8															Jacques.
Saida			30.05	763.3															Pérès.
Tebessa			30.12	765.0	81.7	27.6	29	w.			4		3			0	0	pretty fair	St. Martin.
Geriville					68.4	20.2	58	ssw.			2		5			0.157	4.0	cloudy	Forfert.
Laghouat			30.05	763.3	82.8	28.2	19	s.			2		4			0.150	3.8	fair	Abraham.
Biskra			30.03	762.8	78.8	26.0	38	calm			0		7			inap.	inap.	very cloudy	Gonzon.
Australian.																			
Adelaide, South Australia			29.91	759.7	51.2	10.7	88	n.	6	2.7			10 k			0.558	14.2	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.64	752.8	29.73	755.1	51.0	10.6	92	sw.	3	3.1			10			0.16	4.1	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.29	744.0	29.81	757.2	79.5	26.4	42	se.			5		6			0	0		Prof. Ivan Stezir.
Cracow, I. R Observatory	29.15	740.4	29.90	759.5	63.7	17.6	72	nne.	7.4	3.3			3			0	0		Dr. Wierzbiski
Eperies	29.01	736.8	29.85	758.2	71.6	22.0	60	n.			2		5 s			0	0		Julius Mikolik.
Gratz	28.63	727.2	29.83	757.7	70.5	21.4	66	e.			1		6			0.008	0.2		Andreas Rospini.
Hermannstadt	28.47	723.0	29.83	757.6	73.6	23.1	62	s.			3		5			0.028	0.7		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.48	723.4	29.74	755.5	78.4	25.8	53	ne.			2	2 c	k			0	0	clear	The Staff.
Lemberg	28.94	735.1	29.92	760.0	55.8	13.2	70	nw.			3		10			0	0		Dr. T. Stanecki.
Nen Schmecks	26.55	674.3	29.74	755.3	72.7	22.6	36	nw.			2		2			0	0		Dr. V. von Szontagh.
Pola	29.84	757.9	29.95	760.6	76.8	24.9	59	ssw.			2		3			0	0		I. R. Hydrographic Office.
Szathmar	29.39	746.5	29.85	758.1	71.6	22.0	55	ne.			2		4			0	0		Joseph Midlinszky, S. J.
Szegedin					67.6	19.8	69									0	0		Karl Stancel.
Trieste	29.84	757.8	29.93	760.3	73.8	23.2	59	calm			0		1			0	0		Royal Academy.
Vienna	29.16	740.7	29.84	758.0	76.3	24.6	51	se.			1		0			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.58	751.3	29.68	753.9	53.1	11.7	54	nnw.	9	4.0			4			0.035	0.9	blue sky	W. Boswell.
Armagh, Observatory	29.54	750.3	29.78	756.4	54.0	12.2	55	nw.	5	2.2			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.70	754.4	53.2	11.8	70	wnw.	24	10.7			8					overcast	John Hartnup.
Bolton, Sharples	29.12	739.6	29.64	752.8	57.6	14.2	70	nnw.	6	2.7			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.22	742.2	29.62	752.3	62.6	17.0	69	nw.			2		6			0.02	0.5	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	86	30.0	68	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H. C.
Cardington	29.52	749.8	29.62	752.3	56.0	13.3	94	n.			0.4		10					raining	John McLaren.
Chatham, School M. E.	29.44	747.8	29.57	751.1	57.1	13.9	88	calm			0		10					raining	Corpl. G. A. Pickles.
Falmouth, Observatory	29.53	750.0	29.76	755.9	53.7	12.1	79	nnw.			5		9					d. clouds	The Staff.
Fort Napier, Natal	27.44	697.0	29.67	753.6	83.0	28.3	20	n.			1		4					d. clouds	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.72	754.9	29.96	761.0	80.0	30.0	61	s.			2		6					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.76	755.9	29.79	756.7	54	12.2	61	w.			2		6			0.19	4.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.96	761.0	30.02	762.5	68.6	20.3	91	e.			1		2					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.55	750.6	29.75	755.6	55.0	12.8	44	w.			3		5					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.40	746.7	29.57	751.1	57.7	14.3	97	n.			1		10					raining	The Staff.
Guernsey	29.40	746.7	29.69	754.1	52.3	11.3	97	wnw.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.55	750.6	29.58	751.3	58.9	14.9	88	n.	10	4.5			10					drizzling	The Staff.
Leicester, Museum	29.37	746.0	29.63	752.6	56.1	13.4	87	nne.			1		10					raining	J. C. Smith.
Malta, Mediterranean	30.03	762.7	30.10	764.5	74.2	23.4	90	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.11	764.8	30.10	766.1	78.5	25.8	73	ne.			2		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.13	739.9	29.64	752.8	56.6	13.7	81	nw.			3		10					overcast	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.40	746.7	29.62	752.3	55.1	12.8	98	n.			3		10					raining	The Staff.
Plymouth	29.62	752.3	29.70	754.4	59.5	15.3	79	nw.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.56	750.8	29.66	753.4	48.1	8.9	78						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.91	759.7	71.0	21.7	61	wsw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.39	746.5	29.67	753.6	62.0	16.7	76	nne.			1		10			0.08	2.0	overcast	W. F. Cooper.
Silloth Rectory	29.64	752.8	29.68	753.9	62.0	16.7	50	nw.			1		3			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.66	753.4	57.3	14.1	68	w.	10	4.5			10					overcast	W. C. Carlisle.
Truro, Royal Institution	29.76	755.9	29.86	758.4	58	14.4	64	n.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.86	758.4	29.88	758.9	52.5	11.4	60	nw.	14	6.3			5					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.68	753.9	30.08	764.0	75.6	24.2	47	sw.	4.4	2.0		6 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.92	760.0	29.97	761.2	49	9.4	58	e.	5	2.2		0	5 s		nw.	inap.	inap.	fair	H. J. Cundall, C. E
Chatham, N. B*	29.89	759.2	29.95	760.7	50	10.0	66	se.	3	1.3		5 k	5 ks	se.	se.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.48	748.8	29.67	753.6	68.0	20.0	57	w.			2	0	0			inap.	inap.	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.90	759.4	29.94	760.5	43.0	6.1		e.			1	0	7 ks			0	0	d. clouds	H. A. Johnson.
Father Point, Quebec*	29.82	757.4	29.84	757.9	42	5.6	76	ne.	28	12.5		5 cs	2 k	ne.	ne.	inap.	inap.	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.98	736.1	29.81	757.2	48	8.9	89	nw.	1	0.4			10 s		n.	0	0	clear	James Stewart.
Fredericton, N. B.	29.86	758.4	29.92	760.0	49.0	9.4	79	e.	1	0.4		1 cs	0			0.060	1.5	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	28.62	726.9	29.69	754.1	61.0	16.1	100	sw.	2	0.9			10 n			inap.	inap.	raining	Jas. Grant.
Halifax, N. S*	29.85	758.2	29.98	761.5	52	11.1	72	n.	4	1.8		2 ck	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.24	742.7	29.62	752.3	65.2	18.4	88	sw.			1	9 ck	0			0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.37	746.0	29.70	754.4	60	15.6	65	sw.	9	4.0		10 cs	0	nw.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.88	758.9	29.92	760.0	49.0	9.4	93	w.			3	2 c	0	n.		0.06	1.5	blue sky	C. H. Rigby.
Montreal, Quebec*	29.50	749.3	29.70	754.4	64	17.8	63	sw.	17	7.6		5 cs	0	sw.		0	0	fair	C. H. McLeod, C. E.
Ottawa, Ontario	29.42	747.3	29.66	753.4	63.4	17.4	69	s.			1	5 cs	0			0	0	fair	A. McGill, M. A.
Parry Sound, Ontario*	28.98	736.1	29.67	753.6	47	8.3	100	w.	6	2.7			10 n			0.05	1.3	light rain	Rev. R. Mosley.
Peterboro, Ontario	28.91	734.3	29.63	752.6	55.7	13.2	94	s.			1	0	8 ks			0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.04	737.6	29.72	754.9	59	15.0	76	sw.	10	4.5		8 c	0	nw.		c	0	fair	H Morgan.
Port Stanley, Ontario	29.07	738.4	29.71	754.6	56	13.3	86	w.	7	3.1			10 n		w.	inap.	inap.	light rain	M. Payne.
Quebec, Quebec*	29.43	747.5	29.78	756.4	48	8.9	93	n.	18	8.0		10 ck	0	sw.		0	0	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.12	739.0	29.56	750.8	66	18.9	81	w.	1	0.4			10 ks		w.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B.	29.87	757.7	29.88	758.9	49	9.4	85	se.	8	3.6		0	0			0	0	clear	
St. John, N. B	29.75	755.6	29.92	760.0	52.0	11.1	79	sw.	3	1.3		7 ck	0			0	0	d. clouds	G. Murdock, C. E.
Saint John's, N. F.	29.53?	750.0?	29.79?	756.7?	42	5.6	74	ne.			3		10 n			0.20	5.1	overcast	J. Higgins.
St. Pierre, N. F.			29.76	755.9	42.8	6.0		n.			7					0	0		The Commandant
Sangeen, Ontario*	28.98	736.1	29.70	754.4	46	7.8	93	n.	11	4.9			10 s			0.19	4.8	heavy rain	
Stratford, Ontario	28.45	722.6	29.69	754.1	58.9	14.9	93	sw.	5	2.2			10 s			0	0	d. clouds	C. J. Macgregor, M A
Sydney, C. B*	29.88	758.9	29.95	760.7	49	9.4	58	nw.	10	4.5		2 c	0	nw.		0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.32	744.7	29.69	754.1	60	15.6	72	sw.	10	4.5			10 ks		sw.	0	0	cloudy	Magnetic Observatory.
Windsor, N. S	29.83	757.7	29.92	760.0	52.0	11.1	86	n.	8	3.6		0	8 k			0	0	d. clouds	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.64	727.4	29.67	753.6	63.0	17.2	87	s.	17	7.6		0	9 s			0.02	0.5	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.86	758.4	29.93	760.2	51	10.6	83	s.	5	2.2		2 cs	hz.	w.		0	0	fair	Lt. F. E. Wilmot, R.N.
London, Ontario	28.82	732.0	29.70	754.4	59.7	15.4	88	se.			2		10 n					raining	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.74	755.4	29.77	756.1	65.0	18.3	88	w.	10.2	4.6		0	4 ks			0	0	stormy	John Duthie.
Springbok Fontein	27.84	707.1			47	8.3	92	w.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.00	635.1																	A. Gueluy.
Tchang-kia-tchouang	29.58	751.2	29.69	754.0	72.9	22.7	38	se.			1		4			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.88	758.9	29.90	759.5	62.6	17.0	73	w.	3.4	1.5		10 ck	0	w.		0	0	covered	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.72	754.8	29.76	756.0	65.1	18.4	64	sse.	18	8			0						Oversergent Fischer.
Fanoe	29.61	752.1	29.63	752.6	67.8	19.9	70	ssw.			2		7						Overloerer Lauridsen.
Godthaab, Greenland	29.61	752.0	29.65	753.1	33.4	0.8	89	n.			4		3						S. Kleinschmidt.
Jacobshavn, Greenland	29.63	752.6	29.68	753.8	32.0	0.0		s.			2		8					foggy	
Stykkisholm, Iceland	29.47	748.5	29.51	749.6	36.3	2.4	77	ne.			7		8						A. O. Thorlacius.
Thorshavn	29.50	749.3	29.52	749.9	33.4	0.8	79	wsw.	11	5			5						Overloerer Bergh.
Vestervig	29.53	750.1	29.62	752.4	73.8	23.2	45	ese.			6		2						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.88	759.0			81.0	27.2		nw.	1.1	0.5		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.28	743.8	29.93	760.2	59.4	15.2	93	w.			1		8		w.	0.138	3.5	raining	M. Labroue, Director.
Alençon, Normal School	29.17	741.0	29.72	755.0	62.2	16.8	92	ene.			1	10 cs	0	wsw.		0	0	covered	M. Nicot, Director.
Arras, Engineer School	29.34	745.1	29.58	751.4	68.7	20.4	74	ssw.			8		10 n		n.	0.138	3.5	covered	M. Fénéon, Command't.
Avignon, Normal School	29.86	758.4	29.94	760.4	67.3	19.6	70	s.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.17	740.8	29.70	754.4	68.4	20.2	64	ssw.			2		10 k		sw.	0.157	4.0	covered	M. Saillard, Director.
Beauvais, Normal School	29.37	745.9	29.62	752.3	72.3	22.4	63	ssw.			2		8		ssw.	0.098	2.5	very cloudy.	M. Frère Eugène Marié.
Besançon, Normal School	28.91	734.3	29.77	756.2	72.1	22.3	46	s.			1		cn		sw.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.58	751.2	29.84	757.8	62.2	16.8	56	wsw.			1		8		wsw.	0.811	20.6	almost cov'd	M. Rayet, Director.
Bourges, Normal School	29.24	742.8	29.78	756.3	66.2	19	63	wsw.			3		10 n		wsw.	0.035	0.9	covered	M. Malet, Director.
Brest, Naval Observatory	29.58	751.3	29.82	757.5	61.2	16.2	73	nw.			2		6		nw.	0.020	0.5		M. de Kermarée, Dir.
Caen, Normal School	29.56	750.8	29.63	752.6	58.6	14.8	93	sw.			2		10		sw.	0.390	9.9	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.35	745.4	29.65	753.2	70.0	21.1	75	se.			4		8	s.	s.	0.177	4.5	very cloudy.	M. Jadot, Director.
Charleville, Normal School	29.17	741.0	29.67	753.5	64.9	18.3	82	sse.			2		10			0.217	5.5	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.48	723.3	29.80	757.0	61.3	16.3	84	s.			2		10			0.051	1.3	raining	M. Alluard, Director.
Cluny, Normal School	29.04	737.5	29.85	758.3	61.2	16.2	81	sw.			2		10		sw.	0.008	0.2		M. de Villemontée, Dir.
Commercy, Normal School	28.92	734.0	29.76	755.8	64.8	18.2	78	sse.			1		n	sse.	sse.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.45	697.3	29.95	760.7	62.4	16.9	61	calm			0		10 n			0.280	7.1		M. Jeangirard, Director.
Gréasque, du Rhone	28.84	732.4	29.93	760.1	70.2	21.2	56	se.			1		9		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.08	738.7	29.82	757.4	73.0	22.8	32	sw.			3		ks		sw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.38	720.2	29.89	759.1	60.3	15.7	87	sw.			4		10		ne.	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School	29.60	751.9	29.87	758.8	54.1	12.3	56	w.			2		5		w.	0.12	3.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.32	744.8	29.89	759.1	56.1	13.4	98	wnw.			2		5			0.161	4.1	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.64	752.9	29.74	755.5	60.8	16.0	70	nw.			2		10		nw.	0.063	1.6	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.84	732.6	29.89	759.2	59.2	15.1	71	sw.			1		10 n		sw.			raining.	M. André, Director.
Mans, Normal School	29.38	746.3	29.67	753.7	61.7	16.5	68	w.			3		8		w.	0.59	15.	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.68	753.9	29.95	760.6	68.9	20.5	85	se.			1		10		s.	0.079	2.0		M. Stephan, Director.
Montlouis	24.76	628.9	29.60	751.9	51.4	10.8	100	e.	5.6	2.5			9	e.		0.276	7.0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.78	756.5	29.93	760.3	60.4	15.8	89	se.			3		5		se.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.05	737.8	29.80	757.0	60.1	15.6	96	s.			1		kn			0	0		M. Hasse, Director.
Nantes, Observatory	29.60	751.8	29.76	755.8	62.8	17.1	72	nnw.			0–1		10 kn		wsw.	0.303	7.7		M. Larocque, Director.
Perpignan, Observatory	29.76	756.0	29.87	758.8	61.0	16.1	95	se.	5.6	2.5			10		se.	0.114	2.9		Dr. Fines, Director.
Pic-du-Midi, Summit	21.13	536.6			38.8	3.8		sw.			1		10		sw.	0.118	3.0	snowy	M. Vaussenat, Director.
Privas, Normal School	28.93	734.9	29.81	757.1	64.4	18	74	nw.			1		10 n	se.	se.	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.01	635.2			45.5	7.5	93	sw.			3		10			0.059	1.5	rain & fog	M. Alluard, Director.
Rochefort, Naval Obs'y	28.95	756.0	29.80	756.8	61.9	16.6	73	sw.			4		2		wsw.	0.16	4.	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.48	748.6	29.69	754.0	60.8	16	79	wsw.			1		8		sw.	0.31	8.	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.76	705.1	29.88	759.0	56.8	13.8	91	sw.			1		10		sw.	0.189	4.8	covered	M. Seger, Director.
Rouen, Normal School	29.57	751.1	29.62	752.3	66.6	19.2	77	w.			1		10	w.		0.181	4.6	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.50	749.3	29.66	753.4	67.6	19.8	74	sw.			1		10		sw.	0.421	10.7		M. Renou, Director.
Toulouse, Observatory	29.17	740.9	29.89	759.2	66.7	19.3	79	se.			2		10	s.		0.646	16.4	raining	M. Baillard, Director.
Tours	29.50	750.8	29.74	755.3	63.7	17.6	74	sw.			1		10		wsw.	0.528	13.4	rainy	M. de Tastes.
Versailles, Observatory	29.16	740.7	29.65	753.2	65.1	18.4	84	sw.			4					0.276	7.0		Dr. A. Hérigny, Director
Sub-series.																			
St. Martin du Hinx	29.77	756.2	29.92	760.0	61.0	16.1	75	w.	17.7	7.9			10 kn		w.	0.969	24.6	covered	M. Cartier, Director.
GERMAN.																			
Ansbach	28.37	720.7	29.72	755.0	82.6	28.1	29	s.			2		4	s.		0	0		Prof. Jnedt.
Bamberg	28.96	735.5	29.80	756.8	81.1	27.3	40	sse.			1	0	4 ks		s.	0	0		Prof. Dr. Hoh.
Berlin	29.66	753.3	29.80	756.8	79.2	26.2	35	se.			2		0			0	0		Meteorological Institute.
Breslau	29.40	746.8	29.93	760.2	68.4	20.2	59	ese.			2		2	wnw.		0	0		Royal University Obs'y
Carlsruhe	29.30	744.3	29.74	755.3	79.3	26.3	43	sw.			3		10	sw.		0	0		Albert Senz.
Cassel	29.07	738.4	29.78	756.5	65.1	18.4	36	sw.			4		7	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.72	754.8	81.9	27.7	36	s.			1		6			0	0		Physical Society.
Friedrichshafen	28.40	721.4	29.74	755.3	76.6	24.8	53	ne.			3		6	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	29.59	751.6	29.68	753.9	78.1	25.6	47	ese.			4		7			0	0		E. Preller.
Kiel	29.67	753.6	29.69	754.0	72.7	22.6	46	sse.			1		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.30	745.8	29.76	755.9	81.5	27.5	24	se.			2		3			0	0		H. Leppig, Asst.
Magdeburg	29.55	750.6	29.72	755.0	82.2	27.9	25	se.			2		1	w.		0	0		Dr. Assmann.
Memel	29.91	759.8	29.96	761.0	50.2	10.1	79	wnw.			3	3 c	0						Isermann.
Munich	28.01	711.4	29.80	758.4	79.0	26.1	27	e.			2		3	nw.		0	0		Central Station.
Neufahrwasser	29.91	759.6	29.92	760.0	59.4	15.2	66	e.			2		2	w.		0	0		A. Lothes.
Neustadt, Palatinate	29.22	742.1	29.74	755.4	77.9	25.5	41	sw.			3		7	ssw.		0	0		Dicknether.
Stuttgart	28.81	731.8	29.65	753.0	81.5	27.5	33	sw.			5		8	w.		0.126	3.2	sprinkling	Prof. Dr. Schoder.
Wustrow	29.77	756.1	29.79	756.7	78.3	25.7	54	s.			2	0	3 k			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.59	751.6	29.97	761.1	73.0	22.8		s.			1.0	0	7 k			0.157	4.0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.44	747.6	29.48	748.8	87.5	30.8	76	wsw.	36.0	16.1			10		wsw.	0	0	overcast	
Deesa	29.02	737.2	29.48	748.7	98.3	36.8	33	sw.	26.0	11.6			0			0	0	blue sky	
Bombay	29.69	754.0	29.72	755.0	87.7	30.9	66	wsw.	12.0	5.4			7	wsw.	sw.	0	0	d. clouds	
Poona, Yarrowda	27.86	707.6	29.68	753.7	86.7	30.4	40	sw.	34.0	15.2			4			0	0	d. clouds	
Trichinopoly	29.45	747.9	29.73	755.0	81.3	27.4	77	ssw.	4.0	1.8			10	ne.	ne.	0	0	overcast	
Belgaum	27.20	690.8	29.70	754.2	82.1	27.8	44	ese.	15.0	6.7			2	w.		0	0	d. clouds	
Lahore	28.75	730.3	29.47	748.5	92.1	33.4	29	e.	4.0	1.8			8			0	0	d. clouds	
Roorkee	28.70	728.9	29.60	751.7	77.8	25.4	59	e.	2.0	0.9			8	e.		0.32	8.1	overcast	
Agra	28.98	736.0	29.52	749.9	91.2	32.9	37	nw.	10.0	4.5			2		nw.	0	0	d. clouds	
Nagpur	28.47	723.2	29.46	748.3	101.9	38.8	24	wsw.	8.0	3.6			8		w.	0	0	d. clouds	
Jubbulpore	28.21	716.4	29.51	749.5	96.4	35.8	26	nw.	6.0	2.7			2		nw.	0	0	d. clouds	
Lucknow	29.16	740.8	29.53	750.0	93.0	33.9	35	ene.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.22	742.1	29.52	749.8	91.7	33.2	38	ese.	4.0	1.8			5	sw.		0	0	d. clouds	
Patna	29.32	744.7	29.50	749.2	96.5	35.8	25	n.	2.4	1.1			5	n.	n.	0	0	d. clouds	
Hazaribagh	27.55	699.9	29.50	749.2	90.7	32.6	22	n.	5.2	2.3			10		s.	0	0	overcast	
Cuttack	29.42	747.3	29.50	749.3	93.1	33.9	57	wsw.	7.0	3.1			3			0	0	d clouds	
Calcutta, Alipore	29.50	749.2	29.52	749.7	92.0	33.4	56	s.	9.0	4.0			0			0.17	4.3	blue sky	
Dhubri	29.40	746.8	29.52	749.7	86.9	30.5	76	calm	0.7	0.3			2	sw.		0.28	7.1	d. clouds	
Chittagong	29.50	749.4	29.59	751.6	86.1	30.1	81	wsw.	2.6	1.2			6			0	0	blue sky	
Sibsagar	29.21	741.8	29.54	750.2	86.3	30.2	76	sw.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.15	714.9	29.57	751.0	83.7	28.7	65	nnw.	7.5	3.4			6		n.	1.01	25.6	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Bellary	28.18	715.8	.....	.....	100.5	38.1	25	sw.	14	6.3	.....	3 c	0	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.96	761.0	82.6	28.1	69	ssw.	7.8	3.5	.....	.....	6	wsw.	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.53	750.0	29.93	760.2	76.5	24.7	56	s.	2.5	1.1	.....	.....	4	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.44	747.7	29.95	760.6	75.2	24.0	46	ssw.	6.9	3.1	.....	.....	9	wsw.	.....	0	0	.....	Prof. G. V. Schiapparelli.
Padua	29.80	756.9	29.91	759.6	75.4	24.1	55	sse.	3.8	1.7	.....	.....	5	w.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.04	737.5	29.93	760 1	68.0	20.0	72	ne.	3.8	1.7	.....	.....	9	ne.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.81	757.1	30.00	762.0	67.1	19.5	70	se.	11.2	5.0	.....	.....	8	s.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.03	712.0	29.91	759.8	69.8	21.0	55	e.	.....	.....	2	.....	2	wsw.	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.88	759.0	29.93	760.2	72.0	22.2	61	se.	8.7	3.9	.....	.....	8	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.72	754.8	29.97	761.2	74.3	23.5	56	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.85	758.3	29.94	760.4	70.2	21.2	62	s.	1.8	0.8	.....	.....	8	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.84	757.9	30.02	762.2	74.1	23.4	42	w.	13.0	5.8	.....	.....	4	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.73	755.1	29.98	761.5	75.2	26.2	34	ne.	4.5	2.0	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.13	739.9	29.99	761.8	78.1	25.6	70	sse.	3.1	1.4	.....	.....	2	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.70	754.3	29.89	759.1	76.8	24.9	39	se.	.....	.....	4	.....	4	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.78	756.5	30.03	762.8	69.3	20.7	45	ene.	6.9	3.1	.....	.....	6	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.94	760.5	29.98	761.6	79.3	26.3	54	e.	3.1	1.4	.....	.....	2	w.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.53	750.0	30.04	763.0	70.5	21.4	66	sw.	4.9	2.2	.....	.....	4	ne.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.22	564 3	.....	.....	41.9	5.5	65	sw.	.....	.....	2	.....	4	.....	.....	0	0	.....	Prof. P. F. Denza.
Valdobbia	22.23	564.7	.....	.....	47.3	8.5	77	se.	.....	.....	1	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.26	743.2	29.29	744.1	56.7	13.7	85	s.	.....	.....	2	.....	10 n	.....	.....	0.705	17.9	raining	H. Hattori.
Awomori	29.19	741.4	29.22	742.2	57.0	13.9	81	e.	6.7	3.0	.....	.....	10 n	.....	.....	0.184	4.7	raining	K. Ogawa.
Hamamatsu	29.26	743.2	29.29	743.9	61.8	16.6	79	nw.	.....	.....	4	2 cs	3 s	w.	w.	1.677	42.6	fair	
Kagoshima	29.70	754.3	29.71	754.6	61.5	16.4	40	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohaza.
Kioto	29.20	741.6	29.37	746.0	59.4	15.2	59	w.	6.6	2.9	.....	0	1 ks	.....	.....	0.154	3.9	clear	M. Tojima.
Miasaka	29.60	751.7	29.62	752.4	60.1	15.6	44	w.	.....	.....	6	0	1 s	.....	w.	0	0	clear	K. Masusaki.
Miyako	29.26	743.2	29.37	746.0	56.2	13.4	96	sw.	2.4	1.1	.....	.....	10 n	.....	.....	0.248	6.3	raining	N. Honno.
Nagasaki, I. M. Obs'y	29.47	748.5	29.67	753.6	61.2	16.2	46	w.	12.6	5.6	.....	2 cs	0	w.	.....	0	0	clear	S. Takehayashi.
Niigata	29.29	743.9	29.33	745.0	58.0	14.4	65	w.	15.1	6.7	.....	.....	10ck;s	.....	w.	0.295	7.5	covered	M. Morita.
Nobiru	29.27	743.3	29.28	743.7	57.7	14.3	99	sse.	9.2	4.1	.....	.....	10 n	.....	.....	1.415	35.9	raining	H. Midzushina.
Numazu	29.20	741.7	29.24	742.6	66.0	18.9	79	ssw.	.....	.....	7	0	4 ks	.....	.....	0.925	23.5	fair	R. Kaneda.
Osaka	29.34	745.3	29.36	745.7	60.5	15.8	56	wnw.	38.0	17.3	.....	0	0	.....	.....	0.097	2.5	clear	H. Omura.
Tokei Obs'y, Yeddo	29.17	740.8	29.24	742.6	59.7	15.4	96	nw.	4.4	2.0	.....	.....	10 s	.....	.....	0.599	15.2	cloudy	The Staff.
Wakayama	29.36	745.6	29.41	747.1	61.0	16.1	54	n.	20.3	9.1	.....	0	0	.....	.....	0.184	4.7	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.88	758.9	30.08	764.0	75.0	23.9	73	ene.	12.0	5.4	.....	4 cs	3 k;ks	nnw.	e.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.73	602.6	29.95	760.6	58.1	14.5	87	calm	0	0	.....	9 ck	0	se.	.....	0.028	0.7	cloudy	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.04	763.0	59.0	15.0	95	ese.	2.0	0.9	.....	7 c	2 k;s	sw.	sw.	0.050	1.3	foggy	Prof. M. Leal.
Mazatlan	29.75	755.7	30.02	762.3	73.5	23.1	76	nnw.	0.9	0.4	.....	.....	10 n	.....	se.	0.039	1.0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	69	20.6	90	n.	5.5	2.5	.....	0	3 n	.....	se.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.59	751.6	29.59	751.6	66.4	19.1	.....	sse.	.....	.....	2	.....	.....	.....	.....	0.020	0.5	.....	
Groningen	29.53	750 1	29.59	751.5	73.4	23.0	.....	s.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	29.61	752.2	29.61	752.2	60.8	16.0	.....	wsw.	.....	.....	2	.....	.....	.....	.....	0.189	4.8	.....	
Hellevoetsluis	29.61	752.0	29.61	752.0	65.1	18.4	86	ssw.	.....	.....	1	.....	.....	.....	.....	0.165	4.2	.....	
Utrecht	29.59	751.5	29.63	752.7	69.3	20.7	74	ssw.	.....	.....	3	.....	10	.....	.....	0.213	5.4	dull	H. van der Brink.
Sub-series.																			
Batavia, Java	29.84	757.8	.....	.....	81.9	27.7	77	n.	0	0	.....	.....	5	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.57	751.1	29.63	752.7	59.7	15.4	66	s.	16	7	.....	.....	7	.....	.....	0	0	.....	
Brono	29.63	752.6	29.67	753.6	61.9	16.6	49	n.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Christiania	29.59	751.6	29.73	755.2	68.5	20.3	55	wsw.	4	2	.....	.....	4	.....	.....	0	0	.....	
Gjesvær	29.83	757.6	29.85	758.2	68.5	20.3	.....	sse.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.69	754.1	29.74	755.3	65.3	18.5	52	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	30.06	763.6	30.22	767.6	63.3	17.4	92	w.	9.4	4.2	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.95	735.4	29.94	760.4	65.7	18.7	62	w.	5.0	2.5	.....	.....	8	.....	.....	0.059	1.5	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.08	764.1	30.17	766.3	66.9	19.4	69	w.	3.1	1.4	.....	.....	7	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.67	753.6	30.00	762.1	64.4	18.0	67	nw.	14.3	6.4	.....	.....	6	nw.	.....	0.087	2.2	.....	The Staff.
Ponta Delgada, Azores	30.17	766.2	30.24	768.0	66.6	19.2	76	nw.	6.9	3.1	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.76	755.9	29.96	761.0	76.6	24.8	89	wsw.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	
Serra da Estrella	25 21	640.2	29.99	761.7	42.1	5.6	95	nw.	23.0	10.3	.....	.....	10	.....	.....	0.921	23.4	foggy	
RUSSIAN.																			
Akmolinski	28.85	732.9	29.91	759.7	60.1	15.6	30	ne.	9	4	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.95	760.8	29.97	761.3	75.9	24.4	31	sse.	4	2	.....	0	7 ks	.....	.....	0	0	.....	Capt. Sselilwerstow.
Ashurada	30.07	763.7	29.97	761.3	80.4	26.9	66	w.	11	5	.....	0	1 k	.....	.....	0	0	.....	
Astrakhan	30.08	764.1	30.00	762.0	80.6	27.0	42	wsw.	2	1	.....	0	0	.....	.....	.....	.....	.....	Capt. Wisganow.
Baku	30.06	763.6	30.02	762.4	73.6	23.1	66	n.	13	0	.....	0	0	.....	.....	0	0	.....	
Barnaul	29.33	744.9	29.82	757.5	47.5	8.6	39	nw.	4	2	.....	.....	10	.....	.....	inap.	inap.	.....	Meteorological Obs'y
Bieloserak	29.37	746.1	29.83	757.6	63.7	17.6	78	nnw.	9	4	.....	0	8 ks	.....	.....	0.020	0.5	.....	
Dorpat	29.84	757.8	30.08	763.9	58.3	14.6	71	wsw.	9	4	.....	.....	10 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.17	741.0	30.12	765.0	66.4	19.1	43	se.	9	4	.....	.....	.....	.....	.....	0	0	hazy	Meteorological Obs'y
Elisawetgrad	29.42	747.2	29.86	758.4	65.7	18.7	42	wsw.	18	8	.....	0	6 ks	.....	.....	0	0	.....	
Irkutsk	27.89	708.5	29.48	748.7	58.1	14.5	58	n.	.....	.....	7	.....	0	.....	.....	0	0	.....	
Kasalinsk	29.35	745 4	29.52	749.9	97.5	36.4	33	w.	4	2	.....	.....	4 k	.....	.....	.....	.....	.....	
Kazan	29.58	751.3	29.83	757.7	74.8	23.8	43	se.	11	5	.....	.....	8	.....	.....	0.024	0.6	.....	Observatory.
Kem	29.90	759.4	29.95	760.7	57.4	14.1	67	ne.	13	0	.....	0	4 ks	.....	.....	0	0	.....	
Kertch	30.00	761.9	30.02	762.5	67.6	19.8	59	se.	4	2	.....	0	2 k	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	29.09	738.8	29.71	754.5	61.7	16.5	54	nnw.	13	6	.....	0	8 ks;n	.....	.....	inap.	inap.	.....	Observatory.
Koslov	29.21	742.0	29.74	755.4	55.4	13.0	80	s.	13	6	.....	0	8 kn	.....	.....	0.110	2.8	light rain	
Libau	29.89	759.2	29.91	759.8	52.0	11.1	67	nw.	7	3	.....	.....	9	.....	.....	0	0	.....	E. Quass.
Lugan	29.63	752.7	29.82	757.3	64.9	18.3	38	sw.	34	15	.....	.....	7	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.21	741.9	29.68	753.8	54.3	12.4	85	se.	8.9	4.0	.....	.....	10 n	.....	.....	0.035	0.9	light rain	Meteorological Obs'y
Nikolaiev	29.86	758.4	29.93	760.3	70.9	21.6	53	w.	13	0	.....	0	4 kn	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.80	756.8	29.88	759.0	51.4	10.8	56	se.	7	3	.....	.....	10	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.51	749.5	29.65	753.1	69.3	20.7	50	s.	22	10	.....	1 cs	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.49	749.0	29.82	757.3	89.2	31.8	29	w	6.7	3.0	.....	0	6 kn	.....	.....	0	0	thnd'r storm	
Petrozavodsk	29.71	754.5	29.90	759.4	56.8	13.8	63	ese.	11	5	.....	0	1 ks	.....	.....	0.142	3.6	.....	Dr. Bergmann.
Pinsk	29.34	745.3	29.83	757.7	61.7	16.5	69	nw.	9	4	.....	0	7 k	.....	.....	0.020	0.5	.....	
Poti	29.94	760.4	29.97	761.2	70.9	21.6	75	nw.	4	2	.....	0	7 n	.....	.....	0	0	.....	
St. Petersburg	29.82	757.3	29.84	757.9	65.1	18.4	48	ene.	9	4	.....	0	8 n	.....	.....	0.071	1.8	heavy cld's	Central Physical Obs'y.
Samarkand	27.46	697.5	29.81	757.1	77.9	25.5	53	s.	13	0	.....	0	3 k	.....	.....	0.008	0.2	.....	
Semipalatinsk	29.24	742.8	29.89	759.2	59.5	15.3	45	nw.	9	4	.....	.....	4	.....	.....	0	0	.....	Major Lasarew.
Sevastopol	29.77	756.2	30.00	761.9	71.2	21.8	53	sw.	20	9	.....	1 ck	0	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Staroi Bykhov	29.24	742.6	29.69	754.1	52.7	11.5	87	n.	13	6			10 n			0.559	14.2	raining	
Tashkend	28.15	715.1	29.74	755.4	74.8	23.8	61	calm	0	0			10kn			0	0		Terch, A. M.
Tiflis	28.59	726.1	29.93	760.1	85.3	29.6	23	s.	4	2		0	2 k			0.098	2.5		Physical Observatory.
Vernoe	27.31	693.6	29.75	755.6	61.2	16.2	72	sw.	4	2			10 n					raining	
Viatka	29.30	744.1	29.90	759.5	69.8	21.0	62	e.	2	1			9			0.138	3.5		
Warsaw	29.50	749.4	29.92	760.0	61.3	16.3	41	wnw.	4	2		0	1 ks			0	0		Astronomical Obs'y.
Yeniseisk	29.54	750.3	29.83	757.7	36.5	2.5	89	w.	4	2			10			0.016	0.4	snowing	M. O. Marks.
Scottish.																			
Monach Lt			29.75	755.6	50	10.0	93	w.			4	5	5	sw.		0.1	3.		J. Youngclause.
North Unst			29.65	753.1				w.			3	2	2	w.					Robt. Burnet.
Spanish.																			
Barcelona, Met. Ons'y	29.82	757.3	29.92	759.9	64.8	18.2	87	e.	4.0	1.8			10			0.228	5.8	covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.88	758.9	29.94	760.4	66.9	19.4	66	nw.	2.7	1.2			10			0.268	6.8	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.96	684.7	29.95	760.6	50.5	10.3	93	n.	7.6	3.4			10			0.539	13.7	covered	Domingo Martin.
Madrid, Royal Obs'y	27.65	702.4	29.82	757.5	66.7	19.3	51	nw.	13.6	6.1		0	8			0.031	0.8	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.64	752.9	29.76	755.8	75.0	23.9	71	ne.	3.8	1.7		3	4	wnw.		0.484	12.3	cloudy	Olayo Diaz, Director.
Oviedo	29.09	738.8	29.97	761.2	54.5	12.5	89	n.	8.1	3.6		8 n	2 k	n.	e.	0.110	2.8	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.03	737.4	29.91	759.8	61.7	16.5	86	sw.	9.8	4.4			10			0.043	1.1	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.05	763.3	30.11	764.9	78.3	25.7	79	ese.	5.6	2.5		1 cs	s			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.3	29.87	758.8	78.3	25.7	93	nne.	4.9	2.2		0	7 ks			1.161	29.5	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.91	759.8	30.01	762.3	65.5	18.6	75	w.	14.8	6.6		0	8		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.97	761.3	30.06	763.6	79.9	26.6	83	calm	0	0		4 cs	3 kn	se.	se.	0.126	3.2	cloudy	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.84	757.8	29.87	758.8	64.8	18.2	60	e.			2		10			0	0		
Umea	29.79	756.6	29.84	757.9	58.3	14.6	52	se.			2		10			0.150	3.8		
Hernosand	29.78	756.4	29.83	757.7	63.0	17.2	45	calm			0		10			0	0		
Stockholm	29.66	753.4	29.84	757.9	61.7	16.5	49	calm			0		10			0	0		
Wisby	29.83	757.7	29.89	759.2	49.6	9.8	79	w.			2		5			0	0		
Sub-series.																			
Upsala	29.71	754.7	29.80	756.9	62.4	16.9	52	n.	2.2	1.0			7		n.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.47	723.2	29.87	758.7	63.7	17.6	75	sw.			2		10			0.028	0.7	covered	The Observatory.
Turkish.																			
Constantinople			29.96	761.0	75.9	24.4	42	ne.	6	2.5			1		n.	0	0		The Observatory.
Valona			30.09	764.3	74.7	23.7		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.00	762.0	76.1	24.5	56	sw.			2	c	9 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.81	681.0			70	21.1	90					5 k	4 n	e.	w.			cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.80	756.9	29.88	758.9	72	22.2	53	s.	4	1.8		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.06	738.1	29.72	754.9	51	10.6	93	w.	12	5.4			10 s		w.	0.57	14.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.16	639.1	29.98	761.5	39	3.9	76	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.32	693.9	30.16	766.1	48	8.9	66	sw.	12	5.4		0	9 s		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.88	733.5	30.06	763.5	66.8	19.3	73	s.	6	2.7			10 s		s.	inap.	inap.	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.97	761.2	29.98	761.5	61	16.1	84	s.	13	5.8		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.91	759.7	30.10	764.5	67	19.4	70	se.	3	1.3			10 s		w.	0	0	cloudy	John Healy.
Baltimore, Maryland	29.92	760.0	29.97	761.2	65	18.3	73	s.	6	2.7		2 cs	0	w.		0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.90	761.0	29.98	761.5	63.0	17.2	73	sw.	12	5.4		0	hz.			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	30.27	768.8	30.29	769.4	35.5	1.9		s.	14	6.3			10 n			0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.45	722.6	30.01	762.2	52.0	11.1	69	nw.	8	3.6		1 c	0	nw.		0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.30	693.4	30.09	764.3	45	7.2	63	sw.	11	4.9		0	0			0.06	1.5	clear	S. Wheaton.
Billings, Montana	26.98	685.3	30.16	766.1	43	6.1	68	n.	5	2.2			10 s			0.02	0.5	cloudy	T. Gibson.
Bismarck, Dakota	28.17	715.5	29.96	761.0	50	10.0	80	nw.	12	5.4		0	0			0.02	0.5	clear	Cyrus Cramer.
Block Island, Rhode Island	29.95	760.7	29.98	761.5	58	14.4	84	sw.	17	7.6		0	hz			0	0	clear	J. T. Elker.
Boise City, Idaho	27.47	697.7	30.31	769.9	53	11.7	74	se.	3	1.3		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.75	755.0	29.91	759.7	70.0	21.1	57	sw.	10	4.5		3 ck	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	79.5	26.4	77	se.	6	2.7		3 ck	5 s	w.		0	0	cloudy	M. McCarty.
Buffalo, New York	28.98	736.1	29.72	754.9	66.9	19.4	51	s.	16	7.2		4 cs	hz.	sw.		0	0	fair	W. Finn.
Buford, Fort, Dakota	28.09	713.5	30.07	763.8	43	6.1	76	w.	4	1.8		0	0			0.02	0.5	clear	F. A. Mellen.
Burlington, Vermont	29.51	749.5	29.80	756.9	69.0	20.6	51	s.	7	3.1		3 cs	0	w.		0	0	clear	D. N. Farnell.
Cairo, Illinois	29.45	748.0	29.85	758.2	64.6	18.1	86	nw.	12	5.4			10 ks		nw.	0.27	6.9	cloudy	W. H. Ray.
Cape Henry, Virginia	30.06	763.5	30.08	764.0	65	18.3	78	sw.	16	7.2		2 cs	hz.	sw.		0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.96	761.0	29.99	761.7	64.0	17.8	78	s.	20	8.9		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.28	743.7	29.96	761.0	72	22.2	44	n.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.09	764.3	30.11	764.8	78	25.6	74	se.	13	5.8		2 ck	7 s	w.	sw.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.00	763.5	30.11	764.8	73.0	22.8	84	sw.	4	1.8		3 c	hz.	sw.		0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.20	741.7	30.04	763.0	67.0	11.4	68	s.	7	3.1		10 cs	sk.	w.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.02	762.5	61.5	16.4	90	w.	3	1.3			10 n		sw.	0.53	13.5	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	30.05	763.3	37.1	2.8	66	nw.	3	1.3		0	0			0.08	2.0	clear	E. McGovern.
Chicago, Illinois	29.05	737.9	29.75	755.6	51.9	11.1	82	n.	12	5.4			10 n			0.32	8.1	light rain	John Laurens.
Chincoteague, Virginia	30.03	762.7	30.05	763.3	64	17.8	84	s.	12	5.4		8 ck	hz.			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.11	739.4	29.76	755.9	68.0	20.0	70	s.	7	3.1		8 ck	0	w.		0	0	cloudy	L. Dunne.
Cleveland, Ohio	28.99	736.3	29.72	754.9	67	19.4	53	s.	11	4.9			10 s		w.	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.33	719.0	30.12	765.0	58	14.4	56	n.	10	4.5		5 ck	0			0	0	fair	T. J. Kenan.
Columbus, Ohio	28.92	734.6	29.76	755.9	64	17.8	63	se.	7	3.1		0	9 s		s.	0	0	cloudy	D. Muthbertson.
Doncno, Fort, Texas	28.23	717.0	30.13	765.3	60.0	15.6	52	calm	0	0			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.19	741.4	29.83	757.7	56	13.3	80	n.	4	1.8			10 ks		nw.	0.20	5.1	cloudy	R. R. Martin.
Davis, Fort, Texas	25.42	645.7	30.14	765.5	55	12.8	67	n.	8	3.6			10 ks		n.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.52	724.4	30.28	769.1	49	9.4	63	e.	4	1.8		6 ck	0			0	0	fair	D. Moore.
Deadwood, Dakota	25.50	647.7	30.02	762.5	43	6.1	100	sw.	2	0.9			10 n			0.24	6.1	light rain	F. Willson.
Delaware Breakwater, Del.	29.98	761.5	30.00	762.0	65	18.3	73	sw.	24	10.7		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.90	632.4	30.06	763.5	44.0	6.7	65	s.	8	3.6		0	1 k		n.	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.02	737.1	29.91	759.7	54	12.2	74	n.	8	3.6		1 ck	2 s	n.		0.66	16.8	clear	F. W. Conrad.
Detroit, Michigan	28.96	735.6	29.96	753.4	64.0	17.8	93	sw.	3	1.3			10 n			0.10	2.5	light rain	E. R. Brace.
Dodge City, Kansas	27.54	699.5	30.08	764.0	49	9.4	66	nw.	12	5.4		6 k	0	w.		0	0	fair	J. H. Bryce.
Dubuque, Iowa	29.12	739.6	29.82	757.4	52.8	11.6	80	n.	2	0.9			10 s		e.	0.67	17.0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.08	738.6	29.83	757.7	61	16.1	50	w.	11	4.9		4 cs	0	w.		0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.30	744.2	30.10	764.5	75.2	24.0	59	e.	6	2.7			10 s		e.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.52	648.2	30.20	767.1	40	4.4	76	s.	4	1.8		5 c	0	w.		0	0	fair	H. R. Boynton.
Eastport, Maine	29.83	757.7	29.90	759.4	49.0	9.4	77	ne.	1	0.4		3 cs	hz.	w.		0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.37	695.2	30.07	763.8	45	7.2	63	nw.	12	5.4		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.44	671.6	30.08	764.0	61.0	16.1	48	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.01	736.8	29.73	755.1	71	21.7	50	sw.	14	6.3		8 cs	0	sw.		0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.09	738.9	29.75	755.6	54.0	12.2	64	nw.	8	3.6		2 c	hz.	sw.		0.02	0.5	clear	George Heathcote.
Galveston, Texas	29.97	761.2	30.01	762.2	71	21.7	100	sw.	6	2.7		0	9 ks		s.	1.91	48.5	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.07	738.4	29.73	755.1	52.0	11.1	90	n.	8	3.6			10 ks		n.	0.09	2.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.36	644.1	29.97	761.2	61.4	16.3	16	e.	2	0.9		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.13	765.3	30.15	765.8	71	21.7	66	s.	12	5.4		3 c	hz.	s.		0	0	clear	R. M. Crawford.
Helena, Montana	26.02	660.9	30.19	766.8	48	8.9	65	sw.	14	6.3		0	0			0	0	clear	N. C. Smith.
Huron, Dakota	28.60	726.4	29.95	760.7	48.2	9.0	85	nw.	9	4.0		3 k	0	n.		0	0	clear	S. W. Glenn.
Indianapolis, Indiana	28.88	733.5	29.67	753.6	64.2	17.9	78	sw.	6	2.7			10 s		sw.	0.18	4.6	threatening	C. F. R. Wappenhans.
Indianola, Texas	29.95	760.7	29.98	761.5	74.5	23.6	88	calm	0	0		4 cs	3 ks	nw.		inap.	inap.	fair	I. A. Reed.
Jacksboro, Texas	28.98	736.1	30.13	765.3	58	14.4	54	n.	8	3.6		3 ck	0	nw.		0	0	clear	D. J. Carr.
Jacksonville Florida	30.09	764.3	30.13	765.3	72.5	22.5	79	s.	7	3.1		4 cs	2 k	w.	s.	0	0	fair	J. W. Smith.

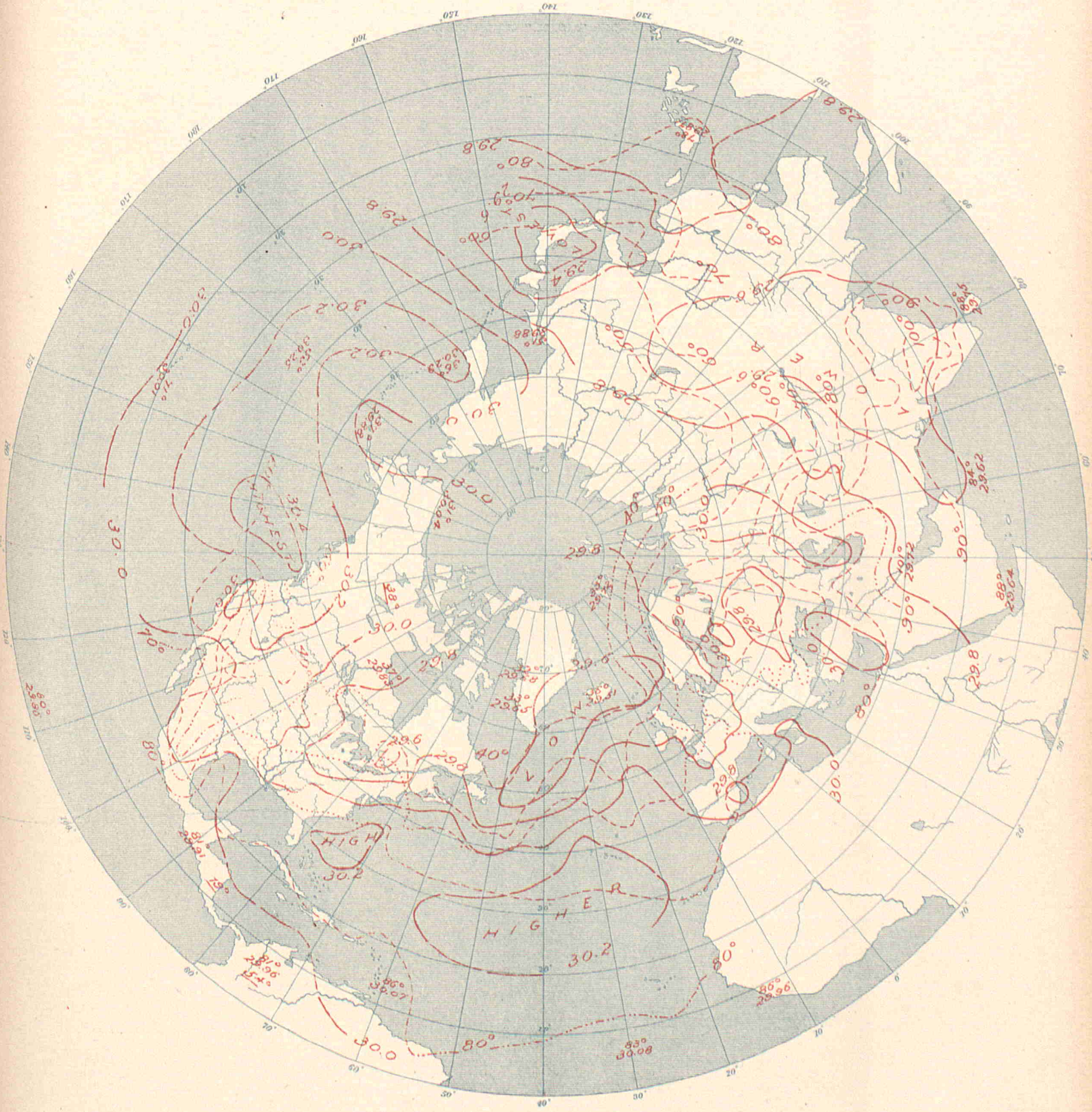
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.62	701.5	30.07	763.8	47	8.3	66	calm	0	0	.....	6 k	0	.....	.....	0.50	12.7	fair	W. B. Lamar.
Keokuk, Iowa	29.18	741.2	29.83	757.7	57.0	13.9	86	nw.	3	1.3	.....	.....	10 k	.....	nw.	0.40	10.2	cloudy	F. Z. Gosewisch.
Key West, Florida	30.09	764.3	30.11	764.8	79.0	26.1	77	se.	3	1.3	.....	2 ck	3 ks	w.	se.	0.01	0.3	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.13	765.3	30.15	765.8	70	21.1	70	sw.	17	7.6	.....	1 c	1 s	w.	sw.	0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	28.97	735.8	29.99	761.7	62	16.7	84	sw.	13	5.8	.....	.....	10 n	.....	.....	inap.	inap.	light rain	J. A. Cody.
La Crosse, Wisconsin	29.07	738.4	29.83	757 7	56	13.3	62	n	5	2.2	.....	0	0	.....	.....	0.12	3.0	clear	S. C. Emery.
Leavenworth, Kansas	29.10	739.1	29.98	761.5	55	12.8	80	nw.	1	0.4	.....	0	0	.....	.....	0.40	10.2	clear	A. W. Brown.
Lewiston, Idaho	29.49	749.0	30.33	770.4	48.0	8.9	77	calm	0	0	.....	3 k	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	29.61	752.1	29.92	760.0	66	18.9	84	nw.	1	0.4	.....	0	8 s	.....	.....	0.61	15.5	cloudy	W. U. Simons.
Los Angeles, California	29.67	753.6	30.07	763.8	60	15.6	93	ne.	4	1.8	.....	.....	10 s	.....	n.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.18	741.2	29.73	755.1	67.5	19.7	70	sw.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.30	744.2	29.98	761.5	67	19.4	55	sw.	1	0.4	.....	3 cs	2 s	sw.	sw.	0	0	fair	Louis Duane.
Mackinaw City, Michigan	29.07	738.4	29.72	754.9	48.1	8.9	80	w.	12	5.4	.....	90;cs	0	w.	.....	0.25	6.3	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.13	765.3	30.14	765.5	70.0	21.1	35	sw.	10	4.5	.....	8 ck	0	sw.	.....	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.74	653.8	30.14	765.5	50	10.0	48	w.	20	8.9	.....	0	0	.....	.....	0.02	0.5	clear	F. Burke.
Marquette, Michigan	29.01	736.8	29.73	755.1	57	13.9	51	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Memphis, Tennessee	29.54	750.3	29.87	758.7	68	20.0	84	nw.	4	1.8	.....	1 cs	3 s	.....	w.	0.42	10.7	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.02	737.1	29.76	755.9	53	11.7	86	nw.	12	5.4	.....	0	9 s	.....	nw.	0.95	24.1	cloudy	W. Line.
Missoula, Fort, Montana	27.04	686.8	30.34	770.6	50	10.0	66	calm	0	0	.....	0	5 s	.....	.....	0	0	fair	J. H. Young.
Mobile, Alabama	30.00	762.0	30.04	763.0	73.4	23.0	88	s.	3	1.3	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	C. A. Read.
Montgomery, Alabama	29.76	755.9	29.99	761.7	67.8	19.9	84	s.	5	2.2	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.88	733.5	29.86	758.4	50	10.0	93	n.	12	5.4	.....	.....	10 n	.....	n.	0.07	1.8	light rain	H. Bessaut.
Mt. Washington, N. H.	23.80	604.5	29.98	761.5	46.0	7.8	89	nw.	40	17.9	.....	1 c	0	.....	.....	0	0	clear	S. W. Beall.
Nashville, Tennessee	29.30	744.2	29.87	758.7	64.0	17.8	93	se.	8	3.6	.....	.....	10 ks	.....	s.	1.00	25.4	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.83	757.7	29.95	760.7	63.5	17.5	74	s.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.94	760.5	29.99	761.7	66	18.9	68	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.00	762.0	74.0	23.3	94	s.	6	2.7	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	H. O. Smyth.
New York, New York	29.80	756.9	29.98	761.5	62	16.7	72	sw.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.04	763.0	30.08	764.0	69	20.6	76	sw.	12	5.4	.....	0	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.19	690.6	30.06	763.5	46.6	8.1	83	w.	6	2.7	.....	0	2 s	.....	.....	0.39	9.9	clear	E. F. Brady.
Olympia, Washington T'y.	30.36	771.1	30.40	772.1	45.0	7.2	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.85	732.8	30.01	762.2	53.4	11.9	74	nw.	2	0.9	.....	0	0	.....	.....	0.69	17.5	clear	A. Pollak.
Ooglaamie, Alaska	30.02	762.5	30.04	763.0	30.8	— 0.6	100	ene.	3	1.3	.....	3 k	6 s	sw.	sw.	0	0	cloudy	P. H. Ray.
Oswego, New York	29.43	747.5	29.76	755.9	69.0	20.6	54	s.	9	4.0	.....	4 cs	0	s.	.....	0	0	fair	J. G. Linsley.
Palestine, Texas	29.46	748.3	30.02	762.5	68.0	20.0	92	n.	6	2 7	.....	4 ck	0	w.	.....	0.37	9.4	fair	L. M. Pindell.
Pensacola, Florida	30.03	762.7	30.06	763.5	73.8	23.2	90	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.88	758.9	29.98	761.5	66	18.9	90	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.86	453.6	29.92	760.0	9	—12.8	100	nw.	36	16.1	.....	0	0	.....	.....	0.06	1.5	clear	H. Hall.
Ploche, Nevada	24.27	616.4	30.19	766.8	46.0	7.8	50	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.04	737.6	29.84	757.9	68.5	20.3	44	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Poplar River, Montana	27.93	709.4	30.05	763.3	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0.06	1.5	clear	W. H. Maxwell.
Port Huron, Michigan	28.99	736.3	29.67	753.6	53.0	11.7	86	s.	16	7.2	.....	.....	10 n	.....	.....	0.05	1.3	light rain	M. H. Perry
Portland, Maine	29.78	756.4	29.84	757.9	63.0	17.2	73	sw.	3	1.3	.....	4 ck	hz.	w.	.....	0	0	fair	W. W. Eichelberger
Portland, Oregon	30.17	766.3	30.24	768.1	56.0	13.3	74	n	5	2.2	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C	.....	.....	.....	.....	70	21.1	70	w.	14	6.3	.....	10 c	hz.	s.	.....	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.89	632.2	29.99	761.7	43.0	6.1	49	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	29.91	759.7	29.94	760.5	62	16.7	72	sw.	9	4.0	.....	0	3s;hz	.....	w.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	73	22.8	82	e.	3	1.3	.....	9c;cs	0	s.	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.67	753.0	30.02	762.5	66	18.9	48	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.10	739.1	29.76	755.9	66	18.9	54	sw.	12	5.4	.....	8c;ck	hz.	w.	.....	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.67	753.6	30.22	767.6	49	9.4	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.92	760.0	30.00	762.0	68.5	20.3	70	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.21	741.9	29.80	756.9	57.0	13.9	100	nw.	13	5.8	.....	.....	10 s	.....	nw.	0.58	14.3	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.96	761.0	29.99	761.7	33	0.6	100	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.01	736.8	29.85	758.2	52.0	11.1	72	calm	0	0	.....	1 k	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	28.94	735.1	29.80	756.9	48	8.9	77	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	O. B. Dilley
Salt Lake City, Utah	25.90	657.8	30.22	767.6	46	7.8	45	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.37	746.0	30.07	763.8	70	21.1	62	n.	3	1.3	.....	0	7 s	.....	.....	0	0	fair	J. H. Davis.
San Diego, California	29.97	761.2	30.04	763.0	59.4	15.2	91	n.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.95	760.7	29.98	761.5	70.0	21.1	62	sw.	17	7.6	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
Sanford, Florida	30.08	764.0	.....	.....	74	23.3	82	sw.	3	1.3	.....	8 c	0	.....	.....	0	0	cloudy	J. B. Marbury.
San Francisco, California	29.93	760.2	30.00	762.0	60	15.6	72	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.42	594.9	30.02	762.5	42	5.6	28	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	74.0	23.3	70	s.	9	4.0	.....	9 ck	hz.	sw.	.....	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.57	674.9	30.17	766.3	42	5.6	67	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.70	754.4	29.94	760.5	67.0	19.4	90	w.	5	2.2	.....	.....	10 s	.....	w.	0.08	2.0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.91	734.3	30.13	765.3	55	12.8	74	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Sitka, Alaska	30.13	765.3	30.19	766.8	40.5	4.7	73	e.	11	4.9	.....	.....	10 n	.....	e.	0.26	6.6	light rain	F. W. Ficketts.
Smith, Fort, Arkansas	29.55	750.6	30.02	762.5	57.2	14.0	80	w.	6	2.7	.....	0	0	.....	.....	0.27	6.9	clear	J. B. Campbell.
Smithville North Carolina	30.10	764.5	30.14	765.5	71	21.7	82	sw	7	3.1	.....	4 ck	0	w.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.27	718.0	30.32	770.1	46	7.8	71	sw.	1	0.4	.....	2 c	0	.....	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.11	739.4	29.78	756.4	55	12.8	90	n.	14	6.3	.....	.....	10 s	.....	n.	2.30	58.4	cloudy	T. B. Jennings.
Springfield, Missouri	28.50	723.9	29.92	760.0	54	12.2	90	nw.	16	7.2	.....	.....	10 s	.....	nw.	1.38	35.1	cloudy	J. H. Bryce.
Starkville, Miss	29.46	748.3	29.93	760.2	66	18.9	92	sw.	20	8.9	.....	.....	10 n	.....	sw.	0.09	17.5	thund'r st'm	C. Dill.
Stevenson, Fort, Dakota	28.12	714.2	29.95	760.7	46	7.8	86	w.	11	4.9	.....	2 c	0	w.	.....	0	0	clear	A. Schneider.
Stockton, Fort, Texas	27.23	691.6	30.24	768.1	59	15.0	78	nw.	1	0.4	.....	10 k	0	w.	.....	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass	29.80	758.4	29.91	759.7	56.5	13.6	77	sw.	15	6.7	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Thomas, Camp, Arizona	27.33	694.2	30.00	762.0	53	11.7	57	n.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	28.98	736.1	29.66	753.4	64	17.8	84	s.	11	4.9	.....	.....	10 n	.....	sw.	0.12	3.0	light rain	A. Buell.
Tucson, Arizona	27.59	700.8	29.93	760.2	62	16.7	43	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.80	758.4	29.88	758.9	37	2.8	89	sw.	4	1.8	.....	.....	10 n	.....	.....	0.04	1.0	light rain	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	54	12.2	44	w.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.65	753.1	29.90	759.4	72.0	22.2	90	se.	6	2.7	.....	.....	10 n	.....	se.	0.03	0.8	light rain	James Kenealy.
Visalia, California	29.60	751.8	29.97	761.2	64.4	18.0	72	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.63	625.6	30.11	764.8	34.0	1.1	60	w.	2	0.9	.....	3 c	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.80	758.4	29.97	761.2	68.8	20.4	68	sw.	6	2.7	.....	7 c	0	w.	.....	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	20.25	666.7	30.10	764.5	37.5	3.1	96	w.	6	2.7	.....	0	0	.....	.....	0.03	0.8	clear	F. H. Brandenburg.
Williamsport, Pa	29.30	744.2	29.90	759.4	62	16.7	70	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.08	764.0	30.13	765.3	70	21.1	78	sw.	3	1.3	.....	5 ck	0	.....	.....	0	0	fair	Samuel A. Haney.
Winnemucca, Nevada	25.85	656.6	30.20	767.1	41	5.0	52	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.70	729.0	29.98	761.5	54	12.2	74	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.77	756.1	29.92	760.0	67.7	19.8	70	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	54.0	12.2	77	calm	0	0	.....	2 ck	5 s	ne.	.....	0	0	fair	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.00	763.5	.....	.....	78	calm	0	0	.....	0	3 s	.....	ene.	0.02	0.5	clear	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	77.5	25.3	86	e.	.....	.....	2	5 k	8 ps	e.	.....	0.020	0.5	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.40	746.7	29.96	761.0	81	27.2	90	n.	.....	.....	1	.....	10 ks	.....	n.	0	0	threatening	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	79	26.1	90	ne.	.....	.....	1	.....	9 ks	.....	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallos.
Santiago de Cuba, W. I	30.04	763.0	30.06	763.5	78	25.6	79	n.	6	2.7	.....	0	0	.....	.....	0.00	1.5	.....	R. Mason.
York Factory, B. A.	29.77	756.1	29.83	757.7	36.5	2.5	93	s.	14	6.3	.....	3 k	3 s	s.	s.	0	0	.....	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 42° 28′, E. 18° 43′	29.99	761.7	74	23.3	72	calm			0		2	wsw.				sm'h		d. clouds.
H. M. S. Dido, N. 17° 15′, W. 62° 48′	30.11	764.8	82	27.8		ne.			3		1	e.						blue sky.
H. M. S. Iris, Port Said, Egypt	30.03	762.7	70	21.1	85	nnw.			3		4							d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.97	761.2	68	20.0	69	wsw.			2		4	sw.						d. clouds.
H. M. S. Opal, N. 32° 20 W. 17° 00′	30.13	765.3	68	20.0	90	ssw.			1		0					3	sse.	blue sky.
H. M. S. Rocket, N. 44° 40′, W. 19° 30′	30.13	765.3	60	15.6	71	se.			1		5					2	nw.	d. clouds.
H. M. S. Tyne, N. 13° 59′, W. 60° 07′	30.06	763.5	81	27.2	83	e.			4		4	nw.				3	e.	d. clouds.
H. M. S. Tenedos, N. 45° 28′, W. 57° 05′	29.89	759.2	46	7.8	84	wnw.			4		2					4	wnw.	blue sky.
U. S. Navy Yard, Pensacola, Fla	30.08	764.0	76	24.4	86	sw.	4	1.8			8		sw.	0.69	17.5			fair.
U. S. Navy Yard, Portsmouth, N. H*	29.82	757.4	67	19.4	69	w.	3	1.3			0			0	0			clear.
U. S. S. Alliance, Norfolk, Va	30.09	764.3	65	18.3	89	sw.			3		2			0	0			clear.
U. S. S. Colorado, New York, N Y	30.03	762.7	69	20.6	56	sw.	4	1.8			0			0	0			clear.
U. S. S. Franklin, Norfolk, Va	30.08	764.0	65	18.3	89	s.	15	6.7			5		w.	0	0			fair.
U. S. S. Jamestown, Newport, R. I*†	30.01	762.2	58	14.4	76	sw.			3		0							clear.
U. S. S. Kearsarge, New York, N.Y	30.00	762.0	64	17.8	83	ssw.			3		0							clear.
U. S. S. Lancaster, Kronstadt, Russia	29.67?	753.6?	51	10.6	93	w.			5		8		w.			mod.	w.	fair.
U. S. S. Michigan, Erie, Pa	29.70	754.4	70	21.1	52	ssw.			3		8		s.					fair.
U. S. S. Minnesota, New York, N. Y	30.00	762 0	65	18.3	68	ssw.			3		0							misty.
U. S. S. New Hampshire, Newport, R. I	29.93	760.2	57	13.9	94	sw.			4		2		calm			sm'h		fair.
U. S. S. Portsmouth, Newport, R.I	30.03	762.7	56	13.3	94	ssw.			3		2							hazy.
U. S. S. Powhatan, Key West, Fla	30 11	764.8	80	26.7	96	ese.			2		8		e.					cloudy.
U. S. S. Quinnebaug, Sierra Leone, Africa	29.96	761.0	84	28.9	79	wnw.			2		10		wnw.			sm'h		cloudy.
U. S. S. Saratoga, New York, N. Y	30.00	762.0	62	16.7	72	sw.			2–3		2		sw.	0	0	sm'h	sw.	fair.
U. S. S. St. Louis, League Island, Pa	30.00	762.0	66	18.9	74	ssw.	13.3	5.9			2			0	0			hazy.
U. S. S. Swatara, Key West, Fla †	30.13	765.3	79	26.1	82	e.			2		8		e.	0	0	sm'h		fair.
U. S. S. Tennessee, New York, N. Y	29.98	761.5	70	21.1	70	sw.	9	4.0			0			0	0			clear.
U. S. S. Vandalia, New York, N. Y	29.96	761.0	75	23.9	68	w.			1		0							clear.
U. S. S. Wabash, Boston, Mass	29.91	759.7	71	21.7	49	sw.	7	3.1			5		wsw.	0	0			fair.
U. S. S. Yantic, New York, N. Y	29.97	761.2	64	17.8	78	wsw.			1		0							clear.
Commewyne, N. 44° 20′, W. 27° 39′	30.08	764.0	60.3	15.7	79	sw.			4		10							misty.
S. S. British Crown, N. 47° 06′, W. 34° 40′ †	29.81	757.2	60	15.6		sw.			6		9		sw; nw.	4 h'r	4 h'r	sm'h		misty.
S. S. British Prince, N. 50° 23′, W. 20° 08′ †	29.99	761.7	53	11.7		wsw.			5		9		w.	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. Illinois, N. 40° 34′, W. 48° 46′*	29.89	759.2	60	15.6		n.			5		10		n.			mod.	wnw.	overcast.
S. S. Lord Gough, N. 40° 50′, W. 67° 27′	30.06	763.5	51	10.6		sw.			5		0			0	0	sm'h		clear.
S. S. Ohio, Philadelphia, Pa †	29.98	761.5	65	18.3	84	wsw.			2		6 ?		w.	0	0			clear.
S. S Pennsylvania, Liverpool, Eng †	29.78	756.4	67	19.4		wnw.			1		7		nw.					cloudy.
S. S. Circassian, N. 49° 32′ W. 43° 16′	29.51	749.5	49	9.4	93	sw.			5		8			0	0	4	wsw.	d. clouds.
S. S. Grecian, Glasgow, Scotland	29.72	754.9	66	18.9	84	wsw.			3		3?		wsw.	1 h'r	1 h'r			cloudy?
S. S. Nova Scotian, N. 50° 04′, W. 34° 44′	29.67	753.6	59	15.0		ssw.			5		10		sw.			mod.	sw.	drizzling.
S. S. Manitoban, Quebec, Canada			58	14.4	88	nnw.			6		6		nw.	0	0			cloudy.
S. S. Alene, N. 27° 05′, W. 74° 15′†	30.21	767.3	73	22.8		ese.			3		0			0	0	sm'h	sw.	fine.
S. S. Ailsa, Morant Point Jamaica, W. I			79	26.1														
S. S. Bolivia, N. 45° 48′, W. 40° 03′ *†	29.91	759.7	62	16.7		sw.			3		8		sw.	14 h'r	14 h'r	long	sw.	cloudy.
S. S. Dorian, N. 43° 47′, W. 43° 16′	29.87	758.7	62	16.7		var.			3		10		wsw.	sh'rs	sh'rs	sli't	w.	cloudy.
S. S. Devonia, N. 55° 09′, W. 13° 28′*†	29.78	756.4	56	13.3		wsw.			2		6		w.			long	wnw.	fine.
S. S. Furnesia, New York, N.Y	29.96	761.0	69	20.6	96	s.			2		1		sw.	0	0			clear.
S. S. Llandaff City, New York, N. Y†	29.82	757.4	60	15.6		calm			0		3		w.	0	0			clear.
S. S. Marathon, Fiume, Austria	29.98	761.5	74	23.3		w.			2		2		w.	0	0	sm'h	w.	clear.
S. S. Pavonia, N. 42° 33′, W. 51° 27′	29.89	759.2	50	10.0	86	wsw.			5		0			8 h'r	8 h'r	mod.	wsw.	clear.
S. S. Colina, N. 48° 39′, W. 48° 22′†	29.40	746.7				wsw.			4		8		nw.	0	0	r'gh	wsw.	hazy.
S. S. Canada, N. 49° 38′, W. 8° 56′	29.80	756.8	64.4	18		n.			3	ck	0	n.		0	0	sm'h	n.	almost clear
S. S. Ville de Marseilles, N 22° 48′, W. 59° 02′			74	23.3		e			3		0			0	0	sm'h		clear.
S. S. Abyssinia, N. 42° 27′, W. 49° 00′	29.93	760.2	52	11.1	93	w.			5		5?		w.	1 h'r	1 h'r	r'gh	w.	cloudy.?
S. S. Wisconsin, N. 42° 00′ W. 49° 58′	29.82	757.4	56	13.3		calm			0		0			0	0	sm'h		clear.
S. S. Wyoming, Liverpool. Eng	29.70	754.4	60	15.6		nnw.			5		4		nw.	0	0			fair.
S. S. Bohemia, N. 49° 30′, W. 21° 00′						ssw.			5		9		ssw.	2 h'r	2 h'r	mod.	ssw.	raining.
S. S. Gellert, Hamburg, Germany			67	19.4	79	se.			4		10		wsw.	0	0			covered.
S. S. Russia, Hamburg, Germany	29.65	753.1	72	22.2		sw.			6		2?		sw.	0	0			fair?
S. S. Silesia, N. 14° 40′, W. 67° 30′	29.97	761.2	81	27.2		ne.			4		4		ene.	0	0	2	nne.	fair.
S. S. Westphalia. N. 50° 14′, W. 17° 20′	30.05	763.3	53	11.7	86	ssw.			4		8		sw.	5 h'r	5 h'r	mod.	w.	squally.
S. S. City of Berlin, N. 51° 27′, W. 14° 00′	29.91	759.7	56	13.3	58	nnw.			3		9		w.	4 h'r	4 h'r	sli't	nw.	fine.
S. S. City of Paris, N. 47° 32′, W. 27° 52′						sw.			6				sw.	6 h'r	6 h'r	h'vy	nw.	rainy.
S. S. Mentmore, N. 51° 26′, W. 10° 40′ *†	29.94	760.5				wnw.			5		2		nw.	0	0	sm'h		fine.
S. S. Virginian, N. 49° 50′, W. 24° 50′ *	29.73	755.1	51	10.6		wsw.			6		10		w.	6 h'r	6 h'r	mod.	w.	raining.
S. S. Archimedes, N. 16° 56′, W 54° 00′	30.07	763.8				e.			5		3		ne.	0	0	light	var.	clear
S. S. Colorado, N. 28° 01′, W. 92° 15′ †	30.02	762.5	74	23.3		s.			2		8		s.	0	0	small	s.	cloudy.
S. S. Rio Grande, N. 31° 00′, W. 80° 15′*†	30.14	765.5	82	27.8		s.			3		2		s.	0	0	mod.	s.	clear.
S. S. San Marcos, off Sand Key Island, Fla			80	26.7		ese.			4		0					mod.		clear.
S. S. Chalmette, New York, N. Y†	30.03	762.7	63	17.2		s.			3		0			0	0			clear.
S. S. New York, N. 32° 20′, W. 79° 15′			77	25.0		sw.			2		2		sw.			sm'h		clear.
S. S. Alleghany, N. 38° 10′, W. 73° 30′†	30.09	764.3	62	16.7		ssw.			4		4		s.	0	0	light	se.	fair.
S. S. Archimede, N. 37° 30′, W. 0° 48′†	29.92	760.0	76	24.4	73	s.			2		3		nw.	0	0	sm'h	wnw.	clear
S. S. City of Merida, N. 34° 13′, W. 76° 43′ †	30.05	763.3	80.6	27.0		sw.			2		5		sw.	0	0	light	se.	fair.
S. S. City of Washington, N. 19° 16′, W. 95° 36′			80	26.7		var.			2		2		s.	0	0	sm'h		clear.
S. S. Denmark, London, Eng			60	15.6		nne.			5		8		ne.	4 h'r	4 h'r			cloudy.
S. S. Egypt, N. 50° 47′, W. 21° 29′*†	30.00	762.0	50	10.0		sw.			5		10		sw.	2 h'r	2 h'r	mod.	sw.	cloudy.
S. S. Helvetia, N. 45° 29′, W. 35° 34′	29.90	759.4	68	20.0	90	ssw.			4		8		ssw.	0	0	sli't	ssw.	cloudy.
S. S. Holland, N. 44° 41′, W. 36° 59′	29.84	757.9	67	19.4		ssw.			3		8		sw.	1 h'r	1 h'r	mod.	ssw.	cloudy.
S. S. The Queen, N. 40° 41′, W. 66° 38′	30.05	763.3	58	14.4	47	sw.			4		0			0	0	sm'h	s.	clear
S. S. America, off Cape Henry, Va *.	30.07	763.8	61.0	16.1	94	sw.			4		3		sw.	0	0	sm'h	sw.	light haze.
S. S. Donau, N. 47° 03′, W. 29° 17′	29.97	761.2				sw.			4		10		sw.			mod.	sw.	foggy.
S. S. Elbe, Bremerhaven, Germany	29.85	758.2	58	14.4	76	sw.			3–4		8		sw.	0	0			hazy.
S. S. Fulda, N. 41° 29′, W. 48° 55′	29.97	761.2	53	11.7	86	nnw.			5		8		n.	0	0	mod.	nw.	cloudy.
S. S. Hohenzollern, N. 40° 01′, W. 70° 00′ *	30.06	763.5	57.2	14.0		sw.			5		1		sw.	0	0	mod.	sw.	clear.
S. S. Hohenstaufen, N. 47° 29′ W. 34° 06′	29.71	754.6				ssw.			5–6		10		sw.	4 h'r	4 h'r	mod.	sw.	light rain.
S. S. Main, N. 49° 43′, W. 9° 54′	29.82	757.4	51.8	11.0		nnw.			4–5		4		nw.	2 h'r	2 h'r	mod.	nnw.	fair.
S. S. Ohio, N. 49° 02′, W. 8° 25′	29.92	760.0				n.			5		3		n.	3 h'r	3 h'r	mod.	n.	clear.
S. S. Weser, N. 37° 38′, W. 70° 15′	30.22	767.6				w.			1		0			0	0	sm'h		clear.
S. S. Orinoco, N. 37° 20′, W. 70° 14′ *†	30.20	767.1	73	22.8		w.			2		1		wsw.	0	0	sm'h		clear.
S. S. Colon, N. 11° 47′, W. 77° 45′ †	29.96	761.0	82	27.8		ne.			6		9		ne.	0	0	large	ne.	cloudy.
S. S. City of Augusta, New York, N. Y						ssw.			2		3		sw.	0	0			smoky
S. S. Belgenland, N. 42° 36′, W. 43° 05′†	30.04	763.0	65	18.3	89	sw.			6		10		w.	1 h'r	1 h'r	r'gh		squally.
S. S. Nederland, N. 43° 38′, W. 36° 42′			62	16.7		sw.			5		10		sw.	0	0	mod.	sw.	cloudy.
S. S. Rhynland, Jersey City, N. J	29.96	761.0	64	17.8	100	s.			4		0			0	0			clear.
S. S. Pennland, New York, N. Y	29.83	757.7	65	18.3	73	s.			2		0			0	0			clear.
S. S. Waesland, Antwerp, Belgium			73	22.8		sse.			4		10		sse.	0.09	2.3			cloudy.
S. S. P. Caland, N. 44° 18′, W. 38° 10′	29.95	760.7	66.4	19.1	95	sw.			5		9		sw.			4	w.	hazy.
S. S. Leerdam, N. 40° 22′, W. 57° 48′	30.09	764.3	62	16.7	94	nnw.			4		2		nw.			sm'h		clear
S. S. W. A Scholten, N. 47° 46′, W. 20° 23′	30.04	763.0	53.4	11.9	80	wsw.			4		9		w.	0	0	sm'h	sw.	cloudy.
S. S. Caracas, N. 33° 58′, W. 71° 05′†	30.32	770.1	70.5	21.4	70	sw.			2		2		calm	0	0	sm'h	ne.	clear.
S. S. Claudius, N. 42° 20′, W. 43° 10′ †	30.06	763.5	69.7	20.9	87	sw.			5		10		wsw.	rain	rain	long	var.	misty.
S. S. Valencia, Curacoa, W. I†	30.14	765.5	84	28.9	79	ne.			5		4		ne.	1 h'r	1 h'r			fair.
S. S. State of Florida, N. 40° 30′, W. 62° 36′			60	15.6		wsw.			3		7		w.	0	0	sm'h		fair.
S. S. State of Nebraska, N 43° 18′, W. 47° 53′ †*	29.90	759.4	44	6.7		wnw.			6		3		w.	0	0	sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. State of Nevada, Larne, Ireland†	29.71	754.6	59	15.0		n.			4		1		n.	10 h'r	10 h'r			clear.
S. S. Romano, Hull, Eng†	29.75	755.6	54	12.2		se			1									
S. S. Dominion, N. 52° 04', W. 36° 04' *†	29.60	751.8	54	12.2		sw.			1		10		wsw.			light	sw.	showery
S. S. Toronto, N. 43° 39', W. 53° 34'	29.78	756.4	42	5.6		wnw.			3		3		wnw.	0	0	mod.	w.	hazy.
S. S. Oregon, Quebec, Quebec	29.70	754.4				nne.			4		3		ne.					fair.
S. S. Lake Huron, N. 55° 29', W 10° 09'	29.73	755.1	60	15.6		w.			1		1		wnw.	0	0	mod.	nw.	clear.
S. S. Lake Manitoba, N. 46° 35', W. 54° 24'	29.65	753.1	42	5.6		w.			5		6		w.	0	0	mod.	nw.	clear.
S. S. Olbers, N. 44° 46', W. 9° 23'†	30.01	762 2	59	15.0		n.			5		6		nne.	0	0	sli't	nnw	fair.
S. S. Daniel Steinmann, Antwerp, Belgium†	29.68	753.9	70	21.1		s.			4		1		s.	3 h'r	3 h'r			
S. S. Plantyn, N. 50° 28', W. 2° 17'									1		1		wsw.	0	0	sm'h	se.	clear.
S. S. Norman, N 42° 23', W. 71° 05'	29.83	757.7				sw.			5		0			0	0			clear.
S. S. Saxon, Philadelphia, Pa †	30.02	762.5				sw			4		2		nw.	0	0			clear.
S. S. Baltic, N. 50° 12' W. 25° 34'*	29.76	755.9	52	11.1	93	sw.			6		10		sw.	8 h'r	8 h'r	mod.	sw.	raining.
S. S Celtic, N. 49° 44', W. 25° 18'†	29.85	758.2	55	12.8		sw.			5		10			16 h'r	16 h'r	mod.	sw.	overcast.
S. S. Antonio Lopez, Santander, Spain	29.94	760.5	61	16.1	77	w.			5		7			12 h'r	12 h'r			fair.
Schr. Abbie H. Gheen, Mayport, Fla†	30.07	763.8	72	22.2		ssw.			1					0	0			cloudy.
Bg. Abbie Clifford, N. 34° 40', W. 69° 04'†	30.14	765.5	70	21.1		wnw.			1		2		w.	0	0	sm'h	w.	clear.
Bk. Alpha, N. 51° 30', W. 23° 20'*†	29.98	761.5	49	9.4		sw.			4		10		wsw.	12 h'r	12 h'r	long	sw.	raining.
Bg. Alcira, Maracaybo, Venezuela	29.92	760.0	86	30.0		e.			2		3		ene.	0	0			clear.
Bk. Adelaide, N. 5° 55', W. 30° 12'*†	30.08	764.0	83	28.3		s.			1		4		se.	0	0	light	s.	fair.
Schr. Annie R. Lewis, Arroyo, Porto Rico, W. I†	30.19	766.8	85	29.4		e.			3		4		ese.	0	0			clear.
Schr. Author Burton, St. Simon's Island, Ga*†	30.09	764.3				sse.			2		2		s.	0	0			fine.
Bk. Aureola, N. 27° 33', W. 59° 50†	30.10	764.5	84	28.9		nne.			5		5		ne.	0	0	sm'h	ene.	fair.
Bk. Achille F, N. 3° 15', W. 25° 45'†	30.03	762.7	81	27.2	91	ese.			1		5		se.	2 h'r	2 h'r	long	var.	fine.
Bk. Arda, N. 45° 10', W. 66° 30'						nne.			2		3		ne.	0	0	sm'h		clear.
Bk. Abla, N. 60° 08', W. 50° 25' *†	29.76	755.9	32.0	0.0		nnw.			6									snowing.
Bg. Annie R. Storer, N. 33°40', W. 73° 06'†	30.28	769.1				sse.			4		1		w.	0	0	sm'h	ssw.	fine.
Bgt. Achsah, N. 19° 53', W. 64° 25' †	30.07	763.8	81	27.2		ene.			2		4		ene.	0	0	mod.	ene.	clear.
S. S. Burswell, N. 37° 37', E 6° 20'†*	29.92	760.0	77	25.0		calm			0		6		calm	0	0	sm'h		fine.
Bg. Belle of the Bay, N. 25° 34'. W. 84° 29'†	30.17	766.3				ene.			2		2		s.	0	0	sm'h	ene.	clear.
Bk. Champion, N. 29° 22'. W. 71° 10'			76	24.4	82	ene.			1		2		ne.	0	0	gentle	nnw.	clear.
Sch. G. R. Flint, N. 33° 38' W. 71° 52'†	30.21	767.3	65	18.3		s.			1		2		sw.	0	0	sm'h	sw.	clear.
Bk. Childwall, N. 33° 25', W. 32° 49'			70	21.1		calm			0		8		n.	0	0	light		fine.
Schr. Clotilde, N. 23° 16', W. 82° 26' *†	30.07	763.8	83	28.3		ese.			4		0			0	0	sm'h		clear.
S Criterion, N. 57° 10', W. 11° 00'*†	29.70	754.4				wnw.			5		4		wnw.	sh'rs	sh'rs	light	wnw.	fine.
S. David Stewart, N. 30° 30', W. 44° 53'†	30.18	766.6				sw.			3		2?		sw.	0	0	mod.	sw.	cloudy ?
S. S. D. J. Foley, Port Antonio, Jamaica, W. I *†	30.10	764.5	83	28.3	79	se.			2		2		se.	0	0			clear.
Bkt. David A. Preston, Navassa, W. I			82	27.8		se.			4		10		se.	0	0	long	se.	
Schr. Edith R. Seward, Vivorilla Cays C. A†	30.14	765.5	88	31.1		e.			1		4		e.	¼ h'r	¼ h'r	sm'h	ene.	clear.
S. E. J. Spicer, Liverpool, Eng	29.72	754.9	57	13.9	87	nnw.			6		7		wnw.	0	0			fair.
Bk. E. D. Bigelow, N. 45° 08', W. 35° 56'*†	29.85	758.2	70	21.1		sw.			7		7		wsw.	0	0	r'gh	w.	hazy.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	30.10	764.5	71	21.7	90	s.			2		7		sw.	0	0			cloudy.
H. P. M. S. Rio Lima, Porto Praya, Cape Verde Id			78.8	26.0	70	ne.			2		3					3		d. clouds.
Schr. F. E. McDonald, N. 29° 20', W. 79° 35'†	30.21	767.3				s.			1					0	0			clear.
Bk. George Davis, N. 44° 59', W. 36° 26'						sw.			6				sw.	0	0	short	sw.	fair.
Bk. Gronsvuer, N. 25° 04', W. 63° 18'†	30.15	765.7	79.0	26.1		se.			2		3		ese.	¼ h'r	¼ h'r	sm'h		clear.
Bk. Galeon, N. 20° 49' W. 92° 33'†	30.05	763.3	78	25.6		e.			2		0			0	0	sm'h	se.	blue sky.
S Hedwig, N. 39° 13', W. 19° 57'	30.03	762.7	60.6	15.9	90	nne.			1		3		n.	0	0		n.	
Bk. Hattie G. McFarland, Port Royal, S. C*†	30.08	764.0	70	21.1		sw.			4		3		nw.	0	0			
Bk. John H. Pearson, N. 20° 51', W. 18° 56'						ne.			5				ne.	0	0	short	ne.	clear.
Schr. Isabel Alberto, Jersey City, N. J†	29.98	761.5				sw.			2		0			0	0			clear.
Bk. Cato, N. 61° 37', W. 0° 30'*†	29.62	752.3				wsw.			2		3		w.	0	0	sm'h	wsw.	clear.
Bk. Johanne, N. 39° 56', E. 0° 45' *†	29.80	756.9	70	21.1		s.			2		3		var.	5 h'r	5 h'r	sm'h		hazy.
Schr. John L. Thomas, N. 35° 20', W. 72° 39'*†	30.28	769.1				sse.			2		1		s.	0	0	light	se.	clear.
Bg. John Wesley, N. 32° 31', W. 71° 57' *†	30.21	767.3				se.			3		1			0	0	sm'h		clear.
Schr. Jennie N. Huddell, N. 35° 15', W. 75° 10'†	30.18	766.6	73	22.8	72	sw.			1		5?		w.	0	0	short	s.	clear.?
Bkt. Josephine, N. 31° 22', W. 67° 30'†	30.23	767.8	74	23.3	55	se.			1		0			0	0	mod.	nnw	clear.
Schr. Leonessa, N. 37° 56', W. 76° 50'†	30.01	762.2				sw.			4		2		sw.	0	0			clear.
Bg. L. & W. Armstrong, N. 38° 45', W. 71° 23'*†	30.16	766.1				sw.			4		0			0	0	sm'h	ssw.	clear.
Light House Tender Laurel, Pensacola Bay, Fla†	30.07	763.8	75	23.9		s.			2		10		s.	5 h'r	5 h'r			cloudy.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	80	26.7		e.			1		0			0	0			clear.
Bk. Milo, N. 48° 30', W. 21° 50'†	29.90	759.4				wsw.			6				wsw.					raining.
S. S. Madrid, Pt. Porman, Spain†	29.90	759.4	71	21.7	85	sse.			1		2		w	0	0	rg'h	ssw.	fair.
Schr. Minnie A. Bonsall, Hoboken, N. J†	30.02	762.5	69	20.6		ssw.			5		0			0	0			clear.
Bk. Matilda C. Smith, N. 41° 00', W. 44° 40'†	30.01	762.2				wsw.			5		9		wsw.	10 h'r	10 h'r	mod.	sw.	gloomy.
Bgt. Myrtle, N. 27° 20', W. 58° 20' *†	30.30	769.6				nw.			3		10		nw.					raining.
Bk. Matthias, N. 42° 10', W. 33° 05'*†	30.32	770.1	63	17.2		w.			3-4		4		wsw.	0	0	long	nw.	hazy.
S. S. Mendoza, N. 28° 24', W. 68° 23'						nne.			2				ne.	0	0	sm'h	nw.	clear.
Schr. Maud Briggs, Barbadoes, W. I*†	30.10	764.5				ene.			4		5		ene.	3 h'r	3 h'r			fair.
Bk. Ottawa, N. 41° 05', W. 30° 25'*	30.10	764.5	65	18.3		w.			4		3		w.	2 h'r	2 h'r	mod.	nnw.	clear.
S. S. Raleigh, N. 31° 20', W. 75° 50' †	30.24	768.1	75	23.9		ssw.			0		3		calm					clear.
Bg. Rising Sun, N. 35° 04', W. 68° 34'*†	30.20	767.1	71	21.7		sw.			1		1		sw.	0	0	mod.	w.	
Bk. Rosalie, Saint John, Antigua, W. I*†	30.10	764.5				e.			2					0	0			clear.
Bk. Rosino, N. 39° 07', W. 67° 21'			70	21.1		s.			4		0			0	0	sm'h	s.	clear.
Bk. Scud, N. 29° 00', W. 54° 14'*†	30.15	765.8	77	25.0		ssw.			4		2		sw.	0	0	mod.	e.	clear.
Bk Southern Belle, N. 34° 20', W. 16° —'†	30.12	765.0	64	17.8		nw.			4		2		n.	sh'rs	sh'rs	h'vy	w.	fair.
S. St. Francis, N. 45° 34', W. 35° 00'			62	16.7	82	ssw.			7		8		ssw.	14 h'r	14 h'r	mod.	sw.	cloudy.
S. S. Strathleven, N. 40° 02', W. 73° 30'	29.96	761.0	57.0	13.9	98	s.			3		0			0	0			misty.
Bgt. Sunlight, N. 22° 07', W. 63° 55'						ene.			3		2		ne	½ h'r	½ h'r	mod.	ese.	fair.
Bg. Tenerife, N. 29° 40', W. 74° 08'						se.			1		0					sm'h		
Bk. Tuck Sing, N. 19° 45', W. 77° 20'*†	30.00	762 0				ne.			1		0			0	0	light	ese.	fine.
Bk. Usko, N. 43° 28', W. 23° 27 *	30.06	763.5	68	20.0		wnw.			1		4		n.	0	0	mod.	nnw	fair.
Schr. Viola Reppard, Boston, Mass †	29.92	760.0	66	18.9		w			1		0			0	0			clear.
Bkt. Wandering Jew, N. 31° 00', W. 72° 54'†	30.26	768.6	70	21.1		se.			4		5		se.	0	0	sm'h		clear.
Bk. Winifred, N. 35° 13', W. 74° 05' *†	30.00	762.0												0	0	sm'h	sw.	clear.
Schr. Wm. Wilcox, Charleston, S. C*†	30.10	764.5				ssw.			1		0			0	0			smoky.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.62	777.7	49.2	9.6	100	s.			5		1					2	ssw.	blue sky
H. M. S. Boadicea, Cape Town, Cape Colony, Africa	29.83	757.7	61	16.1	94	w.			4		8							squally.
H. M. S. Sylvia, Montevideo, Uruguay	30.38	771.6	51.2	10.7	72	s.			4		8							d clouds.
H. M. S. Thetis, S. 7° 48', W. 23° 17'	30.10	764.5	79	26.1	78	e.			3		3					2	sse.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*.	30.37	771.4	51	10.6	79	s.	11	4.9			8		s.	0	0	mod	s.	cloudy.
U. S. S. Galena, Montevideo, Uruguay*.	30.36	771.1	51	10.6	65	s.			4		5		s.			mod.		fair.
May Hulse, S. 39° 22', W. 31° 01'	29.21	741.9	58.5	14.7	79	nnw.			8		6							thund'r st'm
S. S. Hevelius, S. 28° —', W. 46° —'†	30.20	767.1	60	15.6		sw.			9		9		sw.	2 h'r	2 h'r	high	sw.	cloudy.
Bk. Alpheus Marshall, S. 36° 15', E. 15° 30' *†	29.69	754.1				sw.			7		10			3 h'r	3 h'r	r'gh	w.	hazy.
Bk. Horace Scudder, S. 7° 48', W. 4° 50 *†.	30.10	764.5	78	25.6		sse.			3		2		calm	0	0			clear.
S. Mt. Washington, S. 11° 47' W. 34° 07'*†	30.12	765.0	83	28.3	83	ene.			3		1		ene.	0	0	sm'h		clear.
S. Minnie N. Gerow, S. 34° 44', E. 0° 12' †.	30.38	771.6	56	13.3		s.			4		8		ssw.	0	0	mod.	w.	cloudy.
S. Paramita, S. 3° 10', W. 32° 30' †	29.98	761.5	81	27.2		ene.			4		1		ene.	0	0			clear.
S. Wm. McGilvery, S. 7° 32', W. 33° 57'*†	30.05	763.3	83	28.3	83	e.			3		8		ese.	0	0	sm'h		cloudy
S. S. Hermod, S. 17° 59', W. 30° 30'†	30.01	762.2	80.6	27.0		se.			1		10		se.	7 h'r	7 h'r	sm'h	nw.	cloudy.
H. P. M. S. Duque de Tercelia, S. 10° 13', E. 12° 49'	30.04	763.0	78.8	26.0	76	ssw.			3		7			0	0	3	sw.	d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.					Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.		
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.80	756.9	69	20.6	75	calm			0		1	ne.						blue sky.
H. M. S. Champion, N. 1° 43′, E. 110° 32′	29.79	756.7	82	27.8	83	e.			4		10	e.						raining.
H. M. S. Sappho, N. 13° 54′, W. 90° 49′	29.91	759.7	81	27.2	100	calm			0		5	se.				5	s.	d. clouds.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 21′	29.50	749.3	55	12.8	84	wnw.			5–7		3	wnw.				4	wnw.	squally.
H. M. S. Magpie, N. 6° 06′, E. 116° 01′	29.84	757.9	84.3	29.1	83	s.			1		8							d. clouds.
H. M. S. Swiftsure, Esquimalt, V. Id	30.39	771.9	51	10.6	93	calm			0		7	wsw.						d. clouds.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.37	746.0	62	16.7	83	w.			3–5		4					2	w.	squally.
H.P.M. S. Tamega, Macao, China	29.83	757.6	82.4	28.0	89	nw.			2		0			½ h'r	½ h'r			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.30	744.2	61	16.1	94	calm			0		2		nw.	1.10	27.9			clearing.
U. S. S. Adams, Juman, Alaska †	30.23	767.8	45	7.2	84	ene.			3		10					sm'h		drizzling
U. S. S. Hartford, Hilo, Sandwich Id*	30.01	762.2	71	21.7	85	wsw.			1		0			0	0	sm'h		clear.
U. S. S. Monocacy, Roze Island, Corea	29.49	749.0	57	13.9	81	wnw.			5		5		w.					fair.
U. S. S. Palos, Hong Kong, China	29.72	754.9	78	25.6	91	e.			2		10		e.					rainy.
U. S. S. Richmond, Hong Kong, China*	29.72	754.9	80	26.7	96	ene.			1		10		ene.	0.2	5.			cloudy.
S. S. Coptic, Yokohama, Japan	29.15	740.4	66.5	19.2	45	sw.			1		8		sw.	10 h'r	10 h'r	sli't	sw.	cloudy.
S. S. City of Chester, Hookton, Cal †	30.07	763.8	49	9.4	85	nw.			2		0			0	0			clear.
S. S. Willamette, Seattle, Wash. Ter*†	30.38	771.6	52	11.1	93	calm			0		2		nnw.	0	0			clear.
S. S. Ancon, N. 35° 20′, W. 121° 02′†	30.02	762.5	52	11.1	93	se.			2		10					mod.	w.	foggy.
S. S. Dakota, Port Townsend, Wash. Ter †	30.37	771.4	51	10.6	86	ne.			2		8		nw.	0	0	sm'h		cloudy.
S. S. G. W. Elder, N. 38° 56′, W. 124° 25′†	29.92	760.0	51	10.6	?	nw.			4		0					large	w.	clear.
S. S. Queen of the Pacific, San Francisco, Cal †	29.97	761.2				nnw.			2		2			0	0			hazy.
S. S. State of California, N. 44° 43′, W. 124° 10′†	30.28	769.1	52	11.1	93	nnw.			3		10		nw.			mod.	nw.	foggy.
S. S. City of Pekin, N 46° 20′, W. 151° 38′†	30.46	773.7	43	6.1	75	nnw.			5		10		n.	0	0	sm'h		cloudy.
S. E. B. Sutton, N. 41° 00′, W. 133° 40†	30.41	772.4	57	13.9	100	n.			3					0	0	sm'h	ne.	foggy.
S. S. City of Rio de Janeiro, N. 37° 07′, W. 169° 48′†	30.25	768.3	53	11.7	80	nne.			5		8		n.	light	light	mod.	n.	squally.
S. S. Granada, Panamá Bay, Panama †	29.89	759.2	79	26.1	86	nw.			1		3			0	0			clear.
S. S. San Blas, N. 16° 09′, W. 98° 36′			81	27.2		n.			2		7		e.	5 h'r	5 h'r	mod.	s.	fair.
S. Armenia, N. 37° 35′, W 129° 30′*	30.09	764.3	60	15.6	82	n.			5		10		n.	0	0	r'gh	nne.	overcast.
S. S. Benledi, Yokohama, Japan *	29 25	742.9	63	17.2	83	s.			2–3		8		s.	12 h'r	12 h'r	sm'h		rainy.
Bk. Bore, Macassar, Celebes Id*†	30.20	767.1	85	29.4		ese.			1									
S. David Crocket, N. 1° 18′, W. 113° 58′*	29.86	758.4	79.5	26.4	84	se.			3		6		se.	0	0	mod	sse.	fair.
S. Grecian, N. 25° —′, E. 136° 28′†.	29.82	757.4	82	27.8	87	w.			5		4		nw.	0	0	long	ne.	fair.
S. S. Malabar, Singapore, Malay Peninsula						var.					0			0	0	sm'h		clear
S. S. Radnorshire N. 19° 23′, E. 113° 55′*†	29.76	755.9				sw.			2		3		sw.	0	0	sli't	s.	clear.
S. Titan, N. 40° 28′, W. 136° 34′*†	30.46	773.7	64	17.8	94	e.			2		9		e.	0	0	sm'h	nw.	dense fog.
Bk. Xenia, N. 30° 15′, E. 123° 20′			63	17.2		calm			0		7		nw.	3 h'r	3 h'r	chop	nne.	fair.
U. S. S. Ranger, Acapulco, Mexico	29.98	761.5	80	26.7	74	ene.			5		10			0.03	0.8	sm'h		cloudy
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			54	12.2	74	w.			4		4	wsw.						squally.
H. M. S. Espiegle, S. 10° 14′, E. 179° 42′	29.72	754.9	81	27.2	78	ese.			2		3						ese.	d. clouds.
H. M. S. Kingfisher, S. 27° 15′, W. 141° 28′	30.11	764.8	72	22.2		ne.			5		6					6	e.	squally.
H. M. S. Liffey, S. 29° 56′, W. 71° 20	30.02	762.5	57	13.9		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 22° 20′, E. 175° 00′	29.73	755.1	79	26.1	78	nw.			3		2	e.				sm'h		d clouds.
U. S. S. Iroquois, Valparaiso, Chili	30.03	762.7	54	12.2	87	calm			0		10					sm'h		cloudy.
U. S. S. Lackawanna, S. 30° 54′, W. 111° 00′*	30.03	762.7	65	18.3	68	s.			3		5		sw.			sm'h	sw.	fair.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	64	17.8	83	se.			4		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.96	761.0	64	17.8	83	se.	9	4.0			5		se.	0	0			fair.
U. S. S. Wachusetts, S. 21° 38′, W. 169° 05′	29.95	760.7	73	22.8	81	sse.			2		0					long	s.	clear.
S. S. Australia, S. 36° 12′, E. 175° 10′	29.87	758.7	75	23.9	86	nnw.			4		4		s.	0	0	mod.	se.	clear.
S. S. City of Sydney, Sydney, N. S. W *†	29.66	753.4	57	13.9	52	w.			2		2 ks		w.	0	0			clear.
S. S. Zealandia, S. 18° 15′, W. 172° 11′	29.62	752.3	79	26.1	95	ene.			2		0					sm'h		clear.
H. M. S. Lark, S. 15° 24′, E. 157° 04′	29.93	760.2	79.3	26.3	87	se.			3		6					2	se.	d. clouds
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 59′	29.54	750.3	88	31.1		ssw.			2		4	sw.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.65	753.1	88	31.1	73	sw.			2		4	sw.						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.94	760.5	80	26.7	91	sse.			1		3	s.				2	ssw.	d. clouds
H. M. S. Tourmaline, N. 17° 30′, E. 60° 30′	29.62	752.3	84	28.9	87	sw.			5		3	sw.				3	sw.	misty.
H. M. S. Woodlark, Shat-el-Arab river, Persia	29.62	752.3	101	38.3		nw.			7		0					3	nw.	misty.
U. S. S. Enterprise, Port Elizabeth, Cape Colony*	29.69	754.1	66	18.9	89	nw.			3		0					mod.		clear.
U. S. S. Juniata, Bombay, India	29.73	755.1	88	31.1	84	sw.			2		10		sw.	0	0	sm'h		cloudy.
S. S. Salerno, N. 17° 05′, E. 67° 10′†	29.83	757.7	88	31.1		wsw.			3		3		sw.	0	0	mod.	wsw.	clear.
S. Annie M. Law, S. 30° 15′ E. 42° 50′*†	30.26	768.6	73	22.8		e.			1		1		e.	0	0	mod.	ese.	clear.
Bk. Ceylon, S. 34° 51′, E. 21° 11′ *†	29.77	756.1	66	18.9	89	nw.			6		8		nnw.	h'vy	h'vy	r'gh	nw.	cloudy.
S. Dynomene, S. 35° 00′ E. 20° 20′	29.66	753.4	61	16.1	88	wnw.			9		8			h'vy	h'vy	high	w.	squally.
Bk. Pilgrim, Samarang, Java, Oceania *†	29.85	758.2				e.			1		3		e.	0	0			clear.
S. S. Foscolio, N. 15° 48′ E. 41° 36′ †	29.82	757.4				n.			2		0			0	0	sli't	nnw.	clear

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 27, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.96	760.9	75.2	24.0	82	e.			1		0			inap.	inap.	clear	Malaterre.
Algiers			29.89	759.3	62.6	17.0	90	e.			1		8			0.138	3.5	very cloudy	Thève.
La Galle			29.93	760.3	69.4	20.8	85	nnw.			2		5			inap.	inap.	cloudy	Fonfrède.
Tunis			29.95	760.6															Jacques.
Saida			29.93	760.1															Pérès.
Tebessa			30.00	762.0	77.0	25.0	28	se.			3		4			0	0	cloudy	St. Martin.
Geriville					51.4	10.8	100	n.			5		3			7.953	202.0	pretty fair	Forfert.
Laghouat			29.92	760.0	61.9	16.6	71	ne.			3		3			0.602	15.3	pretty fair	Abraham.
Biskra			29.93	760.1	79.2	26.2	46	nw.			6		6			inap.	inap.	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			29.88	758.9	53.9	12.2	75	nne.	12	5.4			10 kn			0.330	8.4	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.72	754.9	29.81	757.2	49.0	9.4	82	n.	6	2.7			5			0.03	0.8	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.36	745.8	29.88	759.0	78.8	26.0	43	sw.			6		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.10	739.1	29.83	757.7	76.3	24.6	45	ne	4.3	1.9			7			0	0		Dr. Wierzbiski
Eperies	29.03	737.3	29.87	758.7	73.4	23.0	59	calm			0		10 ks			0	0		Julius Mikolik.
Gratz	28.63	727.1	29.82	757.5	71.6	22.0	73	e.			2		4			0	0	lightning	Andreas Rospini.
Hermannstadt	28.55	725.1	29.91	759.6	76.6	24.8	48	ne.			1		2			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.62	726.9	29.91	759.8	69.1	20.6	60	wnw.			1		8 ck			0.787	20.0	cloudy	The Staff.
Lemberg	28.93	734.7	29.88	758.9	67.8	19.9	50	ne.			3		0			0	0		Dr. T. Stanecki.
Neu Schmecks	26.61	675.8	29.82	757.5	69.4	20.8	38	sw.			3		4			0.122	3.1		Dr. V. von Szontagh.
Pola	29.89	759.3	30.00	762.0	73.6	23.1	45	sse.			3		4			0	0		I. R. Hydrographic Office.
Szathmar	29.45	747.9	29.90	759.4	74.5	23.6	62	sw.			2		7			0.008	0.2		Joseph Midlinszky, S. J.
Szegedin	29.63	752.5	29.89	759.2	78.8	26.0	59	s.			1		6			0	0		Karl Stancel.
Trieste	29.87	758.7	29.97	761.2	73.4	23.0	53	calm			0		7			0.071	1.8		Royal Academy.
Vienna	29.19	741.4	29.87	758.8	75.9	24.4	52	w.			2		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.81	757.2	29.91	759.7	53.0	11.7	60	sse.	20	8.9			4			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.69	754.1	29.92	760.0	54.0	12.2	77	s.	12	5.4									S. Call.
Bidston, Liverpool Obs'y			29.98	761.5	59.5	15.3	91	nnw.	7	3.1			2					blue sky	John Hartnup.
Bolton, Sharples	29.44	747.8	29.97	761.2	59.5	15.3	50	wsw.	12	5.4			5					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0.01	0.3		McLandsborough & Preston.
Bridgetown, Barbadoes	29.98	761.5	30.00	762.0	83	28.3	75	ne.			2		2					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.90	759.4	30.00	762.0	58.6	14.8	70	n.			0.2		0					overcast	John McLaren.
Chatham, School M. E.	29.85	758.2	29.98	761.5	58.0	14.4	83	calm			0		8					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.82	757.4	30.05	763.3	57.3	14.1	66	se.			1		4					d. clouds	The Staff.
Fort Napier, Natal	27.51	698.7	29.73	755.1	66.0	18.9	59	ne.			1		6					d. clouds	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.73	755.1	29.96	761.0	86.0	30.0	65	s.			1		3					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.82	757.4	29.85	758.2	56	13.3	87	sw.			1		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	70.5	21.4	96	nw.			3		4					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.66	753.4	29.86	758.4	55.2	12.9	50	sw.			2		6					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.82	757.4	29.99	761.7	64.3	17.9	53	sw.			1		4					d. clouds	The Staff.
Guernsey	29.76	755.9	30.05	763.3	55.3	12.9	67	nnw.			1		2					blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.96	761.0	30.00	762.0	60.1	15.6	81	sw.	4	1.8			4					d. clouds	The Staff.
Leicester, Museum	29.77	756.1	30.03	762.7	60.6	15.9	53	w.			1		4					d. clouds	J. C. Smith.
Malta, Mediterranean	30.06	763.5	30.13	765.3	72.0	22.2	88	se.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.09	764.3	84.5	29.2	70	s.			2		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.48	748.8	29.99	761.7	60.0	15.6	46	w.			1		3					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.78	756.4	30.01	762.2	57.2	14.0	66	nnw.			1		4					d. clouds	The Staff.
Plymouth	29.96	761.0	30.04	763.0	60.0	15.6	53	s.			3		1					blue sky	John Merrifield.
Sandwick Manse, Orkneys	29.74	755.4	29.84	757.9	49.1	9.5	71						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.92	760.0	29.99	761.7	71.4	21.9	81	sw.			1		7			blank	blank	misty	W. H. Lyne.
Sheffield	29.60	753.4	29.96	761.0	64.1	17.8	51	nnw.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	29.94	760.5	29.97	761.2	58.5	14.7	53	w.			2		0			0.055	1.4	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.99	761.7	57.0	13.9	96	sw.	10	4.5								blue sky	W. C. Carlisle.
Truro, Royal Institution	30.02	762.5	30.10	764.5	62	16.7	56	s.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.87	758.7	29.90	759.4	53.7	12.1	85	sse.	32	14.3			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.70	754.4	30.09	764.3	70.4	21.3	50	se.	7.4	3.3		6 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.74	755.4	29.78	756.4	55	12.8	86	sw.	10	4.5			10 n		sw.	0	0	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.61	752.1	29.67	753.6	50	10.0	86	sw.	1	0.4			10 s		sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.42	747.3	29.60	751.8	55.7	13.2	92	sw.			2		10 s			0.455	11.6	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.55	750.6	29.60	751.8	46.0	7.8		e.			1		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	29.52	749.8	29.54	750.3	37	2.8	89	ne.	25	11.2			10 s		ne.	0	0	threatening	J. McWilliams.
Fort Garry, Manitoba*	28.92	734.6	29.75	755.6	44	6.7	83	n.	6	2.7		8 k	0	n.		0	0	fair	James Stewart.
Fredericton, N. B.	29.62	752.3	29.68	753.9	55.1	12.8	93	s.	8	3.6			10 s			0	0	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.66	728.0	29.75	755.6	47.0	8.3	100	sw.	2	0.9		0	0			0.71	18.0	fine	Jas. Grant.
Halifax, N. S*	29.78	756.4	29.90	759.4	54	12.2	93	w.	10	4.5			10 k		sw.	0	0	cloudy	A. Allison.
Hamilton, Ontario	29.28	743.7	29.66	753.4	61.7	16.5	91	sw.			2	4 k	0	sw.		0.51	13.0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.31	744.5	29.69	754.1	53	11.7	77	w.	6	2.7		0	0			0.39	9.9	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.86	758.4	29.90	759.4	62.0	16.7	72	sw.			5	6 ck	0	sw.		0	0	d. clouds	C. H. Rigby.
Montreal, Quebec*	29.40	746.7	29.60	751.8	55	12.8	90	w.	12	5.4			10 s		w.	0.90	22.9	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.38	746.2	29.62	752.3	53.7	12.1	83	w.			1	8 c	0			0.22	5.6	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	28.98	736.1	29.67	753.6	48	8.9	93	s.	7	3.1		2 k	0	w.		0.02	0.5	fair	Rev. R. Mosley.
Peterboro, Ontario	28.88	733.5	29.70	754.4	54.7	12.6		calm			0	0	0			0.10	2.5	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.08	738.6	29.77	756.1	48	8.9	100	s.	10	4.5			fg			1.03	26.2	foggy	H Morgan.
Port Stanley, Ontario	29.18	741.2	29.83	757.7	48	8.9	100	w.	8	3.6			fg.			0.76	19.3	foggy	M. Payne.
Quebec, Quebec*	29.22	742.2	29.57	751.1	44	6.7	100	calm	0	0			10 n			0.49	12.4	light rain	Capt. Ashe, R. N
Rockliffe, Ontario*	29.07	738.4	29.53	750.0	50	10.0	71	nw.	5	2.2		0	0			0.08	2.0	clear	W. H. McIntyre.
St. Andrews, N. B.	29.63	752.6	29.68	753.9	53	11.7	96	sw.	12	5.4			10			0	0	foggy	
St. John, N. B	29.58	751.3	29.74	755.4	48.0	8.9	92	sw.	13	5.8			10			0	0	drizzling	G. Murdock, C. E.
Saint John's, N. F.	29.96	761.0	30.22	767.6	44	6.7	76	se.			2		10 n			0	0	overcast	J. Higgins.
St. Pierre, N. F.			30.00	762.0	44.6	7.0		sw.			4					0	0		The Commandant
Saugeen, Ontario*	28.95	735.3	29.65	753.1	53	11.7	80	nw.	9	4.0		0	0			0.02	0.5	clear	
Stratford, Ontario	28.48	723.4	29.75	755.6	49.0	9.4	93	sw.	1	0.4		0	5			0.713	18.1	blue sky	C. J. Macgregor, M A
Sydney, C. B*	29.87	758.7	29.93	760.2	54	12.2	80	sw.	16	7.2		10 cs	0	w.		0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.37	746.0	29.75	755.6	52	11.1	90	w.	4	1.8		0	0			0.79	20.1	clear	Magnetic Observatory.
Windsor, N. S	29.72	754.9	29.81	757.2	61.5	16.4	80	w.	12	5.4		0	10 ks			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.71	729.2	29.75	755.6	57.1	13.9	82	s.	6	2.7		0	0			0.54	13.7	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.77	756.1	29.83	757.7	52	11.1	86	sw.	11	4.9			10 k		sw.	0	0	cloudy	Lt. F. E. Winnot, R.N.
London, Ontario	28.86	733.0	29.76	755.9	50.2	10.1	92	sw.			1	0	0			0.94	23.9	blue sky	E.B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.90	759.4	29.93	760.2	60.0	15.6	76	w.	19.0	8.5		0	6 k			0.080	2.0	stormy	John Duthie
Springbok Fontein	27.89	708.4			48	8.9	63	s.											J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.95	633.6																	A. Gueluy.
Tchang-kia-tchouang	29.65	753.0	29.76	755.8	70.2	21.2	41	calm			0		0			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.88	759.0	29.91	759.6	61.9	16.6	88	sw.	2.9	1.3			10 n			0.010	0.3	raining	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.68	753.9	29.73	755.1	60.8	16.0	87	w.	18	8			10						Oversergent Fischer.
Fanoe	29.85	758.2	29.87	758.7	52.2	11.2	74	nnw.			6		6						Overloerer Lauridsen.
Godthaab, Greenland	29.65	753.0	29.69	754.1	35.8	2.1	80	calm			0		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.65	753.0	29.69	754.2	30.6	— 0.8		s.			4		7					foggy	
Stykkisholm, Iceland	29.61	752.0	29.65	753.1	36.7	2.6	77	n.			6		2						A. O. Thoriacius.
Thorshavn	29.64	752.8	29.66	753.4	44.2	6.8	88	sw.	16	7			10					raining	Overloerer Bergh.
Vestervig	29.72	754.9	29.81	757.2	50.5	10.3	74	nw.			7		0						Loerer Oesterbol.
Egyptian.																			
Cairo	29.94	760.4			82.8	28.2		n.	1.8	0.8		0	0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.47	748.5	30.12	765.0	60.8	16.0	98	nw.			1		n		sw.	0.165	4.2		M. Labroue, Director.
Alençon, Normal School	29.50	749.3	30.05	763.3	62.6	17.0	74	ene.			1		10 n			0	0	covered	M. Nicot, Director.
Arras, Engineer School	29.65	753.1	29.90	759.5	58.8	14.9	72	ne.			1		ks			inap.	inap.		M. Fénéon, Command't.
Avignon, Normal School	29.91	759.7	29.99	761.7	64.8	18.2	77	ne.			1		10			0.08	2.	covered	M. Giraud, Director.
Bar-sur-Seine	29.46	748.3	30.01	762.3	63.1	17.3	68	e.			2		8 kn		wsw.	0.039	1.0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.74	755.5	30.01	762.1	62.6	17	72	ne.			1		8		ne.	0.075	1.9	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.08	738.7	29.96	760.9	65.5	18.6	68	s.			1		kn		sw.	0.008	0.2		M. Gobin, Director.
Bordeaux, Observatory	29.79	756.6	30.05	763.2	61.7	16.5	73	nw.			1		8		w.	0.008	0.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.48	748.7	30.02	762.4	64.4	18	57	w.			1		k		w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.87	758.7	30.11	764.9	64.0	17.8	70	calm			0		8			0.059	1.5		M. de Kermarée, Dir.
Caen, Normal School	29.92	760.0	29.99	761.8	64.8	18.2	71	nw.			1		8		sse.	0.185	4.7	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.67	753.7	29.98	761.6	62.8	17.1	73	w.			1		5		nw.	0.012	0.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.47	748 5	29.98	761.4	58.3	14.6	80	w.			3		10			0.024	0.6	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.68	728.5	30.02	762.6	58.3	14.6	78	ne.			1		10			0.413	10.5	showery	M. Alluard, Director.
Cluny, Normal School	29.17	741.0	30.01	762.2	66.6	19.2	61	nnw.			1		9		nnw.	0.059	1.5		M. de Villemontée, Dir.
Commercy, Normal School	29.15	740.4	29.99	761.8	62.6	17	71	w.			1		n	w.	w.	0.059	1.5		Dr. Coulet, Director.
Gap, Normal School	27.49	698.3	30.00	762.1	57.2	14	95	calm			0		10 n			0.280	7.1		M. Jeangirard, Director.
Gréasque, du Rhone	28.87	733.4	29.98	761.6	59.9	15.5	89	ne.			1		10		s.	0.28	7.	raining	M. Kina, Director.
Grenoble, Normal School	29.28	743.6	30.03	762.7	61.2	16.2	83	wnw.			1		ksn		ne.	0.47	12.		M. Ablard, Director.
Guéret, Normal School	28.42	721.9	29.95	760.8	60.8	16	59	sw.			1		10 kn		ne.	0.118	3.0	raining	M. Delorme, Dir.
Lamballe, Normal School	29.92	759.9	30.19	766.7	60.8	16	60	w.			2		5		w.	0.138	3.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.48	748.8	30.04	763.1	61.9	16.6	72	w.			1		5			0.508	12.9	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.98	761.4	30.08	764.0	64.0	17.8	55	wsw.			2		5	sw.	nw.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.0	30.02	762.6	62.4	16.9	78	se.			1		10			0.146	3.7	covered	M. André, Director.
Mans, Normal School	29.72	755.0	30.03	762.7	63.9	17.7	61	nnw.			1		5		w.	0.04	1.	cloudy	M. Piboën, Director.
Marseille, Observatory	29.69	754.2	29.96	761.0	65.1	18.4	86	s.			0.1		10		s.	0.457	11.6		M. Stephan, Director.
Montlouis	24.88	632.0	29.72	755.0	47.8	8.8	88	n.	9.4	4.2			8	ne.		0.732	18.6		M. Cave for Dr. Fines.
Montpellier, Normal School	29.85	758.2	30.00	762.0	66.2	19	83	ene.			3		5		se.	0.31	8.	raining	M. Galzin, Director.
Nancy, Normal School	29.22	742.1	29.98	761.4	64.8	18.2	66	w.			1		kn			0.063	1.6		M. Hasse, Director.
Nantes, Observatory	29.92	760.0	30.09	764.2	61.9	16.6	59	ese.			0–2	0	7 k; kn		n.	0.024	0.6		M. Larocque, Director.
Perpignan, Observatory	29.89	759.1	30.00	761.9	66.0	18.9	57	nw.	11.2	5.0			10		nnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.19	538.3			35.1	1.7		w.			1		fg		w.	0.063	1.6	dense fog	M. Vaussenat, Director.
Privas, Normal School	29.02	737.0	29.99	761.7	61.5	16.4	81	calm			0		5 k	ne.	ne.	0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.17	639.3			42.4	5.8	94	nw.			2		10		ssw.	0.634	16.1	covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.96	761.0	29.99	761.8	69.8	21.0	57	sw.			1		2		sw.	0	0	½ covered	Lt. E. Decante, Director
Roche-sur-Yon, N. School	29.79	756.7	30.00	762.0	68.0	20	54	w.			1		8		w.	0.020	0.5	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.93	709.4	30.05	763.2	62.1	16.7	10	se.			1		10		se.	0.362	9.2	covered	M. Seger, Director.
Rouen, Normal School	29.88	759.0	29.93	760.2	61.9	16.6	75	w.			1		10	w.		0.12	3.	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.85	758.3	30.02	762.4	62.2	16.8	70	nw.			1		9		nw.	0.043	1.1		M. Renou, Director.
Toulouse, Observatory	29.37	745.9	30.09	764.3	63.9	17.7	68	nnw.			1		10	nw.		0.110	2.8	covered	M. Baillaud, Director.
Tours	29.89	759.3	30.07	763.8	67.6	19.8	53	wnw.			1		5	s.	nw.	0.248	6.3	cloudy	M. de Tastes.
Versailles, Observatory	29.52	749.9	30.02	762.4	64.0	17.8	69	nw.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.94	760.4	30.09	764.2	64.6	18.1	57	nw.	17.7	7.9			5 k	se.	se.	0.055	1.4		M. Cartier, Director.
German.																			
Ansbach	28.53	724.7	29.95	760.6	65.1	18.4	62	sw.			2		9	sw.		0.098	2.5		Prof. Jnedt.
Bamberg	29.09	738.9	29.93	760.3	66.4	19.1	50	sw.			3	0	7 k		sw.	0.157	4.0		Prof. Dr. Hob.
Berlin	29.54	750.2	29.67	753 7	66.6	19.2	81	sw.			2		9			0.101	4.1		Meteorological Institute.
Breslau	29.37	745.9	29.89	759.3	74.3	23.5	53	nw.			2		3	wsw.		0	0	light haze	Royal University Obs'y
Carlsruhe	29.53	750.0	29.98	761.4	67.6	19.8	58	sw.			2		10	sw.		0.157	4.0		Albert Senz.
Cassel	29.19	741.5	29.91	759.6	70.2	21.2	62	sw.			2		8	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.91	759.6	69.8	21.0	67	ssw.			1		8			0.185	4.7		Physical Society.
Friedrichshafen	28.58	725.9	29.95	760.6	70.0	21.1	61	wnw.			2		7	w.		0.622	15.8		Wilhelm, Chief Tel.
Hamburg	29.75	755.6	29.84	757.9	60.3	15.7	85	nw.			4		10			0.043	1.1		E. Preller.
Kiel	29.80	756.8	29.81	757.2	57.9	14.4	75	nw.			1		10			0.091	2.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.48	748.8	29.89	759.2	70.2	21.2	64	sw.			3		8	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.66	753.4	29.84	758.0	68.0	20.0	72	ssw.			2		8	sw.		0.331	8.4		Dr. Assmann.
Memel	29.85	758.2	29.90	759.4	65.8	18.8	62	ssw.			2		10						Issermann.
Munich	28.16	715.2	30.02	762.5	70.7	21.5	52	se.			2		7	s.		0.004	0.1		Central Station.
Neufahrwasser	29.84	757.8	29.85	758.2	67.3	19.6	67	sw.			3		10			0.118	3.0	sprinkling	A. Lothes.
Neustadt, Palatinate	29.39	746.4	29.91	759.7	66.7	19.3	59	w.			2		9	w.		0.071	1.8		Dicknether.
Stuttgart	29.00	736.5	29.86	758.5	67.1	19.5	63	nw.			2		9	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.80	756 9	29.82	757.5	61.3	16.3	81	sw.			3		10 s			0.130	3.3		Profs. Brandes & Reimer.
Greek.																			
Athens	29.66	753.3	30.03	762.8	77.5	25.3		s.			1.5	0	2 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.41	747.0	29.46	748.3	89.9	32.2	79	ssw.	31.0	13.8			6			0	0	d. clouds	
Deesa	29.02	737.0	29.47	748.6	93.7	34.3	45	s.	22.0	9.8			2	s.		0.04	1.0	d. clouds	
Bombay	29.66	753.4	29.70	754.4	83.6	28 7	85	sw.	9.0	4.0			10	sw.	sw.	0.20	5.1	overcast	
Poona, Yarrowda	27.85	707.4	29.66	753.5	87.3	30.7	48	sw.	39.0	17.4			9			0	0	d. clouds	
Trichinopoly	29.41	747.0	29.68	753.8	96.1	35.6	43	w.	2.0	0.9			4	nne.	nne.	0.04	1.0	d. clouds	
Belgaum	27.19	690.6	29.69	754.1	81.6	27.6	55	se.	11.0	4.9			6	n.	w.	0	0	d. clouds	
Lahore	28.88	733.6	29.63	752.5	73.8	23.2	74	ne.	8.0	3.6			7			3.00	76.2	d. clouds	
Roorkee	28.70	729.0	29.60	751.8	76.8	24.9	67	w.	8.0	3.6			10	w.		0.15	3.8	lightning	
Agra	28.93	734.7	29.47	748.6	93.1	33.9	29	se.	4.0	1.8			4		e.	0	0	d. clouds	
Nagpur	28.50	723.8	29.49	749.1	99.5	37.5	29	calm	4.0	1.8			7		w.	0	0	d. clouds	
Jubbulpore	28.21	716.5	29.52	749.8	92.3	33.5	37	nw.	12.0	5.4			1		nw.	0.08	2.0	blue sky	
Lucknow	29.18	741.3	29.56	750.8	82.2	27.9	61	calm	1.0	0.4			0			0	0	blue sky	
Allahabad	29.22	742.2	29.52	749.8	90.7	32.6	43	nw.	2.0	0.9			0			0.02	0.5	blue sky	
Patna	29.32	744.6	29.49	749.1	94.5	34.7	38	ene.	2.3	1.0			8	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.57	700.2	29.51	749.6	89.4	31.9	32	ssw.	5.8	2.6			8	s.		0	0	d. clouds	
Cuttack	29.49	748.9	29.57	751.0	80.5	26.9	79	nw.	2.0	0.9			10		s.	2.20	55.9	drizzling	
Calcutta, Alipore	29.52	749.8	29.54	750.3	89.3	31.8	66	sse.	7.0	3.1			7			0	0	d. clouds	
Dhubri	29.46	748.3	29.58	751.3	84.2	29.0	72	ne.	4.2	1.9			10			0.23	5.8	overcast	
Chittagong	29.52	749.7	29.61	752.0	85.5	29.7	78	wsw.	4.4	2.0			4			0	0	blue sky	
Sibsagar	29.25	742.9	29.58	751.3	85.7	29.8	73	ne.	2.0	0.9			6	sw.	sw.	0	0	d. clouds	
Jeypore	28.10	713.7	29.51	749.4	88.2	31.2	43	sw.	7.6	3.4			2		sw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Bellary	28.18	715.8	.....	.....	100.0	37.8	19	w.	8	3.6	.....	4 ck	2	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.95	760.7	83.3	28.5	69	sw.	5.3	2.4	.....	.....	5	.....	ne.	0	0	d. clouds	
ITALIAN.																			
Udine	29.59	751.6	29.99	761.8	77.0	25.0	54	s.	1.8	0.8	.....	.....	9	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.55	750.6	30.06	763.5	64.4	18.0	55	nw.	9.4	4.2	.....	.....	10	sse.	.....	0.008	0.2	.....	Prof. G.V. Schiapparelli.
Padua	29.85	758.2	29.96	760.9	76.5	24.7	49	se.	4.9	2.2	.....	.....	9	sw.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.16	740.7	30.05	763.3	57.6	14.2	82	e.	2.5	1.1	.....	.....	10	.....	.....	0.465	11.8	.....	Prof. F. F. Denza.
Genoa	29.82	757.5	30.02	762.4	64.9	18.3	59	n.	1.3	0.6	.....	.....	10	s.	.....	0.020	0.5	.....	Prof. G. M. Garibaldi.
Mondovi	28.12	714.3	30.00	762.1	58.8	14.9	74	ene.	.....	.....	2	.....	10	.....	.....	0.425	10.8	.....	Prof. D. C. Bruno.
Pesaro	29.93	760.1	29.97	761.3	70.2	21.2	85	se.	8.7	3.9	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.77	756.2	30.02	762.6	74.3	23.5	49	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.87	758.8	29.96	760.9	70.3	21.3	40	s.	3.8	1.7	.....	.....	10	wsw.	.....	0	0	.....	Prof. P. Monte.
Rome	29.85	758.3	30.02	762.6	76.6	24.8	23	sw.	6.9	3.1	.....	.....	9	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.78	756.5	30.04	762.9	83.1	28.4	27	sw.	6.3	2.8	.....	.....	2	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.13	739.9	29.99	761.8	79.5	26.4	70	wsw.	2.5	1.1	.....	.....	4	w.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.70	754.4	29.89	759.2	69.8	21.0	89	se.	.....	.....	4	.....	9	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.80	756.8	30.04	763.1	73.2	22.9	39	ene.	4.9	2.2	.....	.....	7	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.95	760.7	29.99	761.8	76.8	24.9	52	sw.	16.8	7.5	.....	.....	8	sw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.57	751.0	30.08	764.0	75.9	24.4	35	sw.	0.7	0.3	.....	.....	10	sw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.22	564.4	.....	.....	41.0	5.0	66	w.	.....	.....	2	.....	10	.....	.....	0.134	3.4	covered	Prof. P. F. Denza.
Valdobbia	22.25	565.2	.....	.....	40.1	4.5	73	se.	.....	.....	2	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.38	746.2	29.41	747.1	53.4	11.9	86	w.	.....	.....	4	.....	10 ck	.....	.....	0.146	3.7	cloudy	H. Hattori.
Awomori	29.23	742.4	29.27	743.4	52.3	11.3	83	sw.	14.0	6.3	.....	.....	9 ks;s	.....	.....	0.338	8.6	cloudy	K. Ogawa.
Hamamatsu	29.62	752.3	29.65	753.0	59.0	15.0	64	wnw.	.....	.....	6	0	0	.....	.....	0	0	clear	
Kagoshima	29.82	757.4	29.83	757.7	61.6	16.4	66	calm	.....	.....	0	.....	10 s	.....	.....	0	0	cloudy	G. Miyanohaza.
Kioto	29.52	749.9	29.70	754.4	53.9	12.2	89	wnw.	2.4	1.1	.....	0	2 s	.....	.....	0.009	0.2	clear	M. Tojima.
Miasaka	29.77	756.1	29.80	756.8	63.2	17.3	51	w.	.....	.....	2	.....	10 s	.....	wsw.	0	0	overcast	K. Masusaki.
Miyako	29.22	742.1	29.32	744.9	56.0	13.3	60	wsw.	5.5	2.4	.....	0	8 s	.....	.....	0.858	21.8	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.61	752.1	29.80	756.9	64.3	17.9	53	sw.	6.6	2.9	.....	0	4 s	.....	.....	0	0	fair	S. Takehayashi.
Niigata	29.53	750.0	29.56	750.8	54.9	12.7	83	w.	19.2	8.6	.....	.....	10 n	.....	.....	0.365	9.3	light rain	M. Morita.
Nobiru	29.35	745.6	29.37	746.0	55.2	12.9	78	wsw.	4.7	2.1	.....	0	1 ks	.....	w.	0.010	0.3	fair	H. Midzushina.
Numazu	29.49	749.1	29.53	750.0	61.4	16.3	66	ssw.	.....	.....	6	0	0	.....	.....	0	0	clear	R. Kaneda.
Osaka	29.66	753.4	29.68	753.9	59.0	15.0	81	wsw.	2.8	1.2	.....	0	0	.....	.....	0	0	clear	H. Omura.
Tokei Obs'y, Yeddo	29.41	747.0	29.48	748.8	58.5	14.7	83	sse.	2.5	1.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	29.64	752.8	29.69	754.1	58.9	14.9	74	calm	0	0	.....	1 cs	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.88	758.9	30.07	763.8	75.1	23.9	69	e.	15.5	6.9	.....	3 cs;c	4 k;ks	nnw.	e.	0.07	1.8	cloudy	The Staff.
MEXICAN.																			
Guanajuato	23.74	602.9	29.96	760.9	58.8	14.9	96	calm	0	0	.....	.....	10 kn	.....	e.	0.102	2.6	rainy	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.02	762.5	61.5	16.4	94	wsw.	2.0	0.9	.....	6 c	4 n	se.	se.	0.024	0.6	covered	Prof. M. Leal.
Mazatlan	29.72	755.0	29.98	761.5	74.5	23.6	90	w.	0.9	0.4	.....	5 cs	0	sw.	.....	0.039	1.0	fair	F. Quijano, U. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	75	23.9	85	nw.	6.6	3.0	.....	0	8 k	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.02	762.6	30.02	762.6	56.7	13.7	.....	nnw.	.....	.....	3	.....	.....	.....	.....	0.472	12.0	.....	
Groningen	29.88	758.9	29.93	760.3	49.8	9.9	.....	n.	.....	.....	2	.....	.....	.....	.....	0.370	9.4	.....	
Helder	29.96	760.9	29.96	760.9	51.3	10.7	.....	n.	.....	.....	4	.....	.....	.....	.....	0.028	0.7	.....	
Hellevoetsluis	29.99	761.7	29.99	761.7	53.4	11.9	79	nw.	.....	.....	3	.....	.....	.....	.....	0.118	3.0	.....	
Utrecht	29.94	760.5	29.99	761.7	55.4	13.0	80	nw.	.....	.....	2	.....	8	.....	.....	0.024	0.6	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.2	.....	.....	81.8	27.1	83	ne.	0	0	.....	.....	3	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.72	755.0	29.79	756.6	49.3	9.6	66	wnw.	18	8	.....	.....	6	.....	.....	1.299	33.0	.....	
Brono	29.39	746.4	29.43	747.4	58.3	14.6	61	s.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	
Christiania	29.37	746.1	29.52	749.7	60.6	15.9	92	s.	2	1	.....	.....	4	.....	.....	0.278	7.0	.....	
Gjessvær	29.60	751.7	29.62	752.3	69.1	20.6	.....	s.	.....	.....	6–7	.....	5	.....	.....	.....	.....	.....	
Lodingen	29.48	748.8	29.53	750.0	63.7	17.6	49	s.	.....	.....	2	.....	5	.....	.....	0.571	14.5	.....	
PORTUGUESE.																			
Angra, Azores	30.08	764.1	30.24	768.1	64.2	17.9	84	w.	6.9	3.1	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.98	736.2	29.95	760.8	72.5	22.5	42	nne.	2.5	1.1	.....	.....	7	.....	.....	0.059	1.5	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.10	764.6	30.19	766.8	67.8	19.9	66	s.	3.1	1.4	.....	.....	9	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.72	754.8	30.05	763.2	62.2	16.8	64	nnw.	17.4	7.8	.....	.....	8	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.19	766.7	30.26	768.5	67.3	19.6	72	nne.	3.1	1.4	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.74	755.4	29.94	760.4	78.3	25.7	84	wsw.	1.8	0.8	.....	.....	2	se.	.....	0	0	.....	
Serra da Estrella	25.28	642.1	30.01	762.3	48.2	9.0	82	ene.	1.8	0.8	.....	.....	10	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.02	737.0	30.09	764.2	56.1	13.4	23	ne.	9	4	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.80	756.9	29.82	757.4	77.4	25.2	42	se.	13	6	.....	2 cs	0	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	30.02	762.4	29.92	760.0	80.2	26.8	64	wnw.	11	5	.....	0	1 k	.....	.....	0	0	.....	
Astrakhan	30.06	763.4	29.97	761.3	79.2	26.2	44	se.	18	8	.....	.....	10 s	.....	.....	inap.	inap.	.....	Capt. Wisganow.
Baku	29.98	761.6	29.94	760.4	72.9	22.7	82	s.	9	4	.....	3 cs	0	.....	.....	0	0	.....	
Barnaul	29.61	752.2	30.12	765.1	45.3	7.4	43	nw.	4	2	.....	.....	8	.....	.....	0	0	light clouds	Meteorological Obs'y
Bieloaersk	29.29	743.9	29.74	755.4	63.7	17.6	62	ese.	13	6	.....	0	7 ks	.....	.....	0.213	5.4	.....	
Dorpat	29.55	750.5	29.78	756.5	62.2	16.8	60	w.	9	4	.....	0	4 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.22	742.1	30.15	765.9	70.0	21.1	30	sse.	4	2	.....	.....	10	.....	.....	0	0	hazy	Meteorological Obs'y
Elissawetgrad	29.54	750.2	29.97	761.3	69.3	20.7	45	n.	4	2	.....	.....	9 ks	.....	.....	0	0	.....	
Irkutsk	28.24	717.5	29.89	759.1	48.0	8.9	55	nne.	.....	.....	3	.....	10	.....	.....	0.012	0.3	.....	
Kasalinsk	29.34	745.3	29.52	749.8	85.3	29.6	29	ene.	13	6	.....	.....	10 k	.....	.....	.....	.....	.....	
Kasan	29.74	755.5	30.00	762.1	70.2	21.2	38	sse.	11	5	.....	.....	9 k	.....	.....	0	0	.....	Observatory.
Kem	29.72	754.8	29.77	756.1	67.5	19.7	47	ne.	9	4	.....	3 c	0	.....	.....	0	0	.....	
Kertch	29.94	760.5	29.97	761.1	66.2	19.0	73	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.26	743.3	29.88	758.9	66.2	19.0	44	w.	9	4	.....	0	6 ks	.....	.....	0	0	.....	Observatory.
Koslov	29.34	745.1	29.86	758.5	60.8	16.0	67	wsw.	11	5	.....	.....	10 kn	.....	.....	blank	blank	.....	
Libau	29.83	757.6	29.85	758.2	59.2	15.1	58	ssw.	9	4	.....	.....	0	.....	.....	0	0	.....	E. Quaas.
Lugan	29.72	755.0	29.91	759.6	72.5	22.5	51	ssw.	9	4	.....	.....	6	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.21	742.0	29.68	753.8	57.0	13.9	69	sw.	6.7	3.0	.....	.....	10 n	.....	.....	0.240	6.1	raining	Meteorological Obs'y
Nikolaiev	29.93	760.3	30.01	762.2	72.7	22.6	60	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.78	756.5	29.87	758.7	39.7	4.3	93	calm	0	0	.....	.....	10	.....	.....	0.252	6.4	.....	Iwanow.
Pekin, China	29.58	751.3	29.72	754.9	69.3	20.7	41	s.	3.4	1.5	.....	0	1 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.52	749.7	29.84	758.0	89.6	32.0	31	wnw.	3.4	1.5	.....	0	5 k	.....	.....	0	0	.....	
Petrozavodsk	29.51	749.0	29.71	754.5	57.2	14.0	86	se.	10	7	.....	0	8 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.43	747.4	29.91	759.7	67.8	19.9	42	sw.	4	2	.....	0	4 k	.....	.....	0	0	.....	
Poti	29.95	760.8	29.98	761.6	65.1	18.4	92	nnw.	4	2	.....	0	2 ks	.....	.....	0	0	.....	
St. Petersburg	29.66	753.4	29.69	754.0	51.4	10.8	99	nw.	11	5	.....	.....	10 kn	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Semipalatinsk	29.48	748.7	30.14	765.5	52.0	11.1	57	n.	13	6	.....	.....	0	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.79	756.7	30.02	762.4	66.9	19.4	61	wnw.	15	7	.....	3 cs	0	.....	.....	blank	blank	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Staroi Bykhov	29.44	747.8	29.90	759.4	55.0	12.8	85	nw.	13	6	.....	.....	10	.....	.....	0.669	17.0	.....	
Tashkend	28.21	716.5	29.81	757.1	73.4	23.0	70	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	Terch, A. M.
Tiflis	28.56	725.3	29.92	759.9	73.8	23.2	56	s.	2	1	.....	.....	10	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.36	695.0	29.79	756.7	64.0	17.8	72	ne.	9	4	.....	.....	9 n	.....	.....	.....	.....	.....	
Viatka	29.40	746.7	30.01	762.2	67.5	19.7	51	sse.	2	1	.....	.....	4	.....	.....	0	0	.....	
Warsaw	29.46	748.3	29.87	758.6	72.1	22.3	44	sw.	7	3	.....	2 ck	0	.....	.....	0.004	0.1	.....	Astronomical Obs'y.
Yeniseisk	29.72	755.0	30.02	762.5	34.3	1.3	71	w.	4	2	.....	.....	10	.....	.....	0.004	0.1	.....	M. O. Marks.
SCOTTISH.																			
Monach Lt	.....	.....	29.64	752.8	51	10.6	93	s.	.....	.....	6	10	5	s	.....	0	0	light clouds	J. Youngclauss.
North Unst	.....	.....	29.76	755.9	.....	.....	.....	w.	.....	.....	3	0	0	.....	.....	.....	.....	.....	Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.89	759.2	29.99	761.8	71.6	22.0	58	se.	1.8	0.8	.....	.....	9	.....	.....	0.075	1.9	almost cov'd	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.06	763.6	30.12	765.1	64.8	18.2	57	nw.	2.7	1.2	.....	2	10	.....	.....	0.165	4.2	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.09	688.2	30.05	763.3	56.3	13.5	54	ne.	5.8	2.6	.....	2	4	sw.	.....	0.276	7.0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.5	29.90	759.5	69.4	20.8	44	ne.	9.4	4.2	.....	0	3	.....	.....	0	0	.....	The Staff.
Murcia, Met. Obs'y	29.79	756.6	29.92	759.9	59.9	15.5	93	ene.	1.8	0.8	.....	4	6	w.	.....	0.583	14.8	covered	Olayo Diaz, Director.
Oviedo	29.28	743.7	30.17	766.4	53.6	12.0	78	e.	3.1	1.4	.....	8 n	4 k	e.	e.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.16	740.7	30.05	763.3	59.2	15.1	55	n.	12.5	5.6	.....	.....	9	.....	.....	0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.01	762.3	30.08	764.0	78.2	25.7	79	e.	2.2	1.0	.....	1 cs	0	nw.	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.4	29.87	758.8	82.2	27.9	79	se.	19.7	8.8	.....	0	1 k	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.3	30.04	762.9	64.0	17.8	80	w.	13.4	6.0	.....	3	4	n.	nw.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.01	762.3	30.10	764.6	81.7	27.6	82	se.	3.4	1.5	.....	0	2 kn	.....	se.	0.020	0.5	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.77	756.2	29.81	757.2	67.3	19.6	49	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.75	755.6	29.80	756.9	59.4	10.2	87	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	29.67	753.6	29.72	754.9	56.1	13.4	62	e.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Stockholm	29.58	751.3	29.76	755.8	57.6	14.2	74	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	29.70	754.4	29.76	755.9	65.5	18.6	60	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.60	751.9	29.69	754.1	59.0	15.0	77	s.	15.2	6.8	.....	.....	10	.....	ssw	0.055	1.4	.....	S. G. Fineman.
SWISS.																			
Geneva	28.60	726.5	30.00	762.1	63.0	17.2	65	sw.	.....	.....	2	.....	10	.....	.....	0.177	4.5	covered	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.03	762.8	66.0	18.9	84	se.	7	3.0	.....	.....	9	.....	n.	0.248	6.3	.....	The Observatory.
Valona	.....	.....	30.17	766.4	76.6	24.8	.....	w.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.08	763.9	76.3	24.6	56	sw.	.....	.....	2	.....	4 k	.....	sw;se.	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.80	680.7	.....	.....	74	23.3	57	.....	.....	.....	.....	4 k	3 n	sw.	ne.	.....	.....	.....	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.65	753.1	29.73	755.1	62.2	16.8	58	nw.	8	3.6	.....	0	7 ks	.....	nw.	0.10	2.5	fair	J. O. Barnes.
Alpena, Michigan	28.96	735.6	29.62	752.3	51	10.6	72	sw.	4	1.8	.....	4 k	3 ks	sw.	w.	0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.12	638.0	29.94	760.5	42	5.6	70	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.11	688.6	29.95	760.7	51	10.6	80	sw.	5	2.2	.....	.....	10 s	.....	w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.81	731.8	29.98	761.5	61.0	16.1	87	w.	3	1.3	.....	hz.	1 s	.....	.....	0.34	8.6	dense haze.	Edward A. Beals.
Atlantic City, New Jersey	29.72	754.9	29.73	755.1	59	15.0	93	sw.	7	3.1	.....	.....	10 s	.....	w.	0.24	6.1	cloudy	Jas. M. Watson.
Augusta, Georgia	29.75	755.6	29.94	760.5	69	20.6	84	w.	5	2.2	.....	.....	10 k	.....	nw.	0.05	1.3	cloudy	John Healy.
Baltimore, Maryland	29.73	755.1	29.78	756.4	69	20.6	57	w.	6	2.7	.....	4 k	0	w.	.....	0	0	fair	Geo. W. Felger.
Barnegat City, New Jersey	29.71	754.6	29.73	755.1	61.0	16.1	96	sw.	7	3.1	.....	.....	10 n	.....	.....	0.25	6.3	light rain	G. A. Hill.
Behring Id., Behring Sea	30.00	762.0	30.02	762.5	39.5	4.2	.....	s.	13	5.8	.....	.....	10 n	.....	.....	0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.36	720.3	29.92	760.0	48.0	8.9	86	calm	0	0	.....	2 c	2 s	.....	.....	inap.	inap.	fair	A. Pritchard.
Benton, Fort, Montana	27.17	690.1	29.96	761.0	45	7.2	76	ne.	3	1.3	.....	.....	10 s	.....	ne.	0	0	cloudy	S. Wheaton.
Billings, Montana	26.72	678.7	29.90	759.4	47	8.3	77	sw.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.06	712.7	29.85	758.2	48	8.9	80	nw.	5	2.2	.....	1 c	0	.....	.....	0.01	0.3	clear	Cyrus Cramer.
Block Island, Rhode Island	29.70	754.4	29.73	755.1	56	13.3	100	sw.	18	8.0	.....	.....	10n;fg	.....	.....	0.21	5.3	light rain	J. T. Elker.
Boise City, Idaho	27.32	693.9	30.16	766.1	49	9.4	80	ne.	2	0.9	.....	2 cs	0	.....	.....	0	0	clear	J. Kenealy.
Boston, Massachusetts	29.53	750.0	29.69	754.1	60.5	15.8	93	sw.	8	3.6	.....	.....	10 n	.....	sw.	0.13	3.3	light rain	O. B. Cole.
Brownsville, Texas	30.06	763.5	30.10	764.5	71.3	21.8	95	calm	0	0	.....	.....	10 s	.....	w.	0.37	9.4	cloudy	M. McCarty.
Buffalo, New York	29.04	737.6	29.78	756.4	50.2	10.1	92	s.	10	4.5	.....	0	hz.	.....	.....	0.98	24.9	clear	W. Finn.
Buford, Fort, Dakota	27.95	709.9	29.93	760.2	43	6.1	83	nw.	4	1.8	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	F. A. Mellen.
Burlington, Vermont	29.36	745.7	29.64	752.8	57.0	13.9	80	calm	0	0	.....	.....	10 s	.....	w.	0.36	9.1	cloudy	D. N. Farnell.
Cairo, Illinois	29.60	751.8	30.00	762.0	59.6	15.3	83	w.	4	1.8	.....	4 k	0	w.	.....	0.01	0.3	fair	W. H. Ray.
Cape Henry, Virginia	29.78	756.4	29.80	756.9	67	19.4	100	s.	7	3.1	.....	.....	10 n	.....	.....	0.10	2.5	light rain	A. K. Alderson.
Cape May, New Jersey	29.72	754.9	29.75	755.6	64.0	17.8	90	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.31	7.9	cloudy	W. E. Smith.
Cape Mendocino, California	29.31	744.5	29.99	761.7	62	16.7	72	n.	.....	.....	2	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.02	762.5	30.04	763.0	74	23.3	76	w.	10	4.5	.....	2 ck	4 k	w.	nw.	0.02	0.5	fair	G. W. Davis.
Charleston, S. Carolina	29.86	758.4	29.91	759.7	71.0	21.7	90	sw.	6	2.7	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.03	737.3	29.87	758.7	65.0	18.3	90	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.28	7.1	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.17	740.9	29.98	761.5	61.0	16.1	72	nw.	6	2.7	.....	1 k	0	.....	.....	0.37	9.4	clear	B. L. Goulding.
Cheyenne, Wyoming	24.12	612.6	29.99	761.7	41.8	5.4	54	w.	2	0.9	.....	5 c	0	nw.	.....	0	0	fair	E. McGovern.
Chicago, Illinois	29.06	738.1	29.76	755.9	54.2	12.3	78	sw.	7	3.1	.....	2 c	0	w.	.....	0.01	0.3	clear	John Laurens.
Chincoteague, Virginia	29.71	754.6	29.73	755.1	64	17.8	100	s.	4	1.8	.....	.....	10 n	.....	.....	0.13	3.3	light rain	C. F. Dickens.
Cincinnati, Ohio	29.24	742.7	29.90	759.4	59.0	15.0	70	s.	2	0.9	.....	0	0	.....	.....	0.18	4.6	clear	L. Dunne.
Cleveland, Ohio	29.08	738.6	29.82	757.4	52.3	11.3	75	s.	3	1.3	.....	0	0	.....	.....	1.05	26.7	clear	J. B. Newlin.
Coleman City, Texas	28.35	720.1	30.14	765.5	56	13.3	80	s.	1	0.4	.....	3 c	0	.....	.....	0	0	clear	T. J. Kenan.
Columbus, Ohio	29.02	737.1	29.86	758.4	52	11.1	80	w.	4	1.8	.....	0	0	.....	.....	0.50	12.7	clear	D. Cuthbertson.
Concho, Fort, Texas	28.22	716.8	30.12	765.0	56.0	13.3	80	calm	0	0	.....	9 cs	0	.....	.....	0	0	cloudy	J. McGlone.
Davenport, Iowa	29.16	740.7	29.80	756.9	56	13.3	74	w.	8	3.6	.....	4 cs	0	w.	.....	0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.36	644.1	30.08	764.0	58	14.4	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington Ty	28.41	721.6	30.16	766.1	57	13.9	73	sw.	5	2.2	.....	10 k	0	.....	.....	0	0	cloudy	D. Moore.
Deadwood, Dakota	25.30	642.6	29.82	757.4	47	8.3	60	calm	0	0	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	F. Willson.
Delaware Breakwater, Del	29.74	755.4	29.76	755.9	65	18.3	93	sw.	14	6.3	.....	.....	10 s	.....	sw'	0.04	1.0	cloudy	T. S. Townsend.
Denver, Colorado	24.82	630.4	29.98	761.5	49.0	9.4	61	sw.	2	0.9	.....	4 c	0	.....	.....	0	0	fair	F. M. Neal.
Des Moines, Iowa	28.99	736.3	29.88	758.9	52	11.1	80	nw.	8	3.6	.....	0	0	.....	.....	0.08	2.0	clear	F. W. Conrad.
Detroit, Michigan	29.06	738.1	29.76	755.9	53.0	11.7	80	sw.	7	3.1	.....	3 ck	0	sw.	.....	1.10	27.9	clear	E. R. Brace.
Dodge City, Kansas	27.52	699.0	30.07	763.8	45	7.2	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.10	739.1	29.80	756.9	52.5	11.4	66	w.	3	1.3	.....	3 c	0	n.	.....	0.01	0.3	clear	J. Harvey Smith.
Duluth, Minnesota	28.94	735.1	29.69	754.1	51	10.6	72	w.	1	0.4	.....	0	8 s	.....	w.	0.03	0.8	cloudy	N. B. Conger.
Eagle Pass, Texas	29.38	746.2	30.18	766.6	68.0	20.0	51	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.30	642.6	29.98	761.5	50	10.0	50	sw.	11	4.9	.....	.....	10 s	.....	s.	0	0	cloudy	H. R. Boynton.
Eastport, Maine	29.65	753.1	29.72	754.9	52.0	11.1	93	s.	13	5.8	.....	.....	fg.	.....	s.	0	0	light fog	D. C. Murphy.
Elliott, Fort, Texas	27.34	694.4	30.04	763.0	52	11.1	61	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.37	669.8	30.01	762.2	63.0	17.2	36	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.08	738.6	29.80	756.9	56	13.3	80	sw.	4	1.8	.....	0	0	.....	.....	1.32	33.5	clear	C. A. Shaw.
Escanaba, Michigan	28.96	735.6	29.62	752.3	52.0	11.1	83	nw.	6	2.7	.....	0	2 s	.....	.....	0.09	2.3	clear	George Heathcote.
Galveston, Texas	30.09	764.3	30.13	765.3	69	20.6	66	ne.	8	3.6	.....	8 cs	0	sw.	.....	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.05	737.9	29.71	754.6	51.5	10.8	86	sw.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.32	643.1	29.93	760.2	64.9	18.3	25	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.84	757.9	29.86	758.4	67	19.4	100	w.	20	8.9	.....	.....	10 n	.....	nw.	0.65	16.5	heavy rain	R. M. Crawford.
Helena, Montana	25.79	655.1	29.96	761.0	52	11.1	61	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Huron, Dakota	28.51	724.1	29.86	758.4	47.2	8.4	74	nw.	14	6.3	.....	3 k	0	nw.	.....	0.04	1.0	clear	S. W. Glenn.
Indianapolis, Indiana	29.03	737.3	29.82	757.4	58.0	14.4	70	sw.	4	1.8	.....	0	6 k	.....	sw.	0.24	6.1	fair	C. F. R. Wappenhans.
Indianola, Texas	30.10	764.5	30.12	765.0	70.2	21.2	67	ne.	16	8.0	.....	8 cs	0	w.	.....	0.01	0.3	cloudy	I. A. Reed.
Jacksboro, Texas	28.96	735.6	30.11	764.8	60	15.6	50	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Jacksonville Florida	29.94	760.5	29.98	761.5	75	23.9	82	sw.	7	3.1	.....	5 cs	0	w.	.....	0.12	3.0	fair	J. W. Smith.

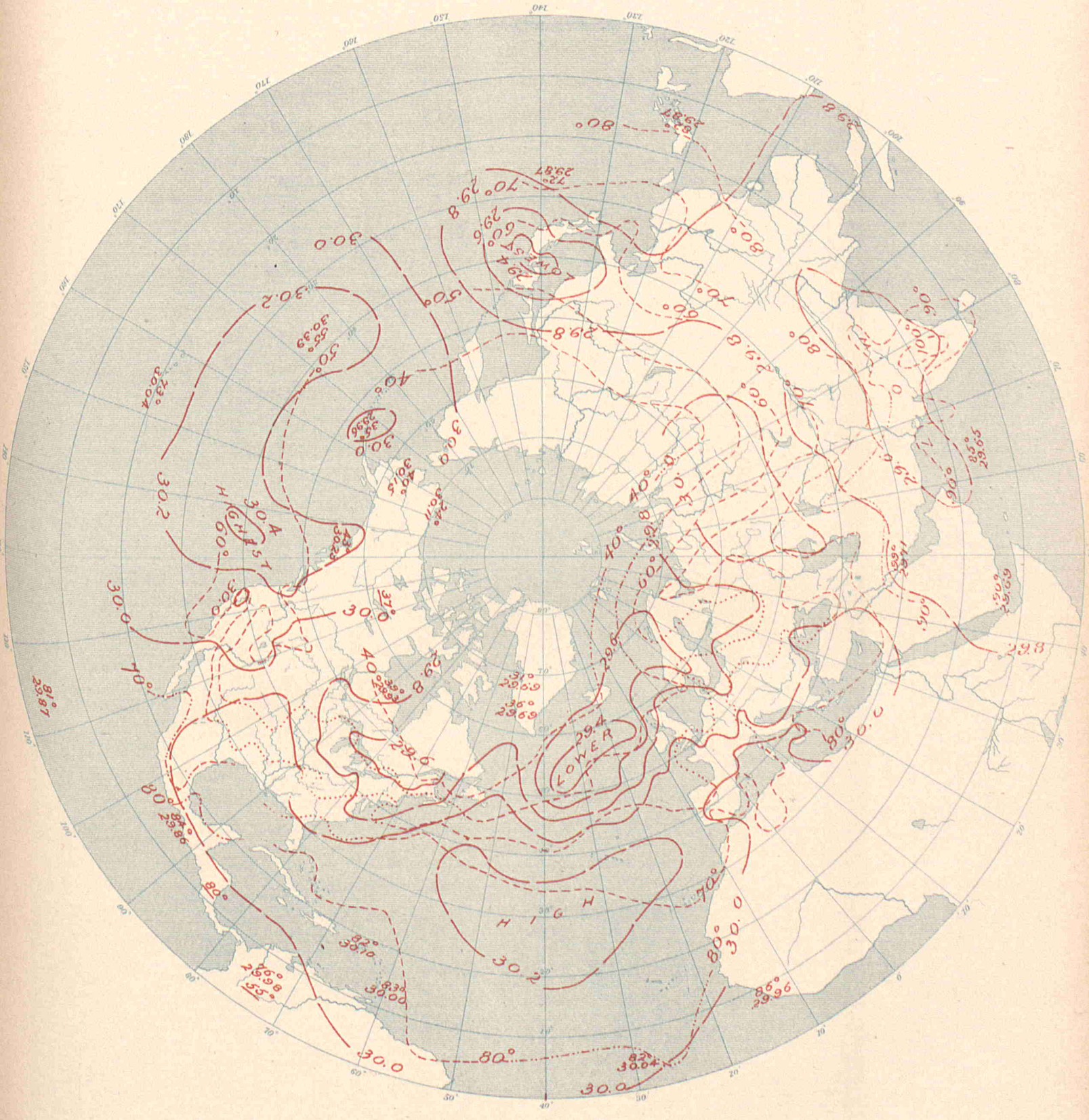
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.46	697.5	29.90	759.4	46	7.8	77	sw.	1	0.4		8 k	0			0	0	cloudy	W. B. Lamar.
Keokuk, Iowa	29.20	741.7	29.86	758.4	57.0	13.9	74	w.	4	1.8		6 k	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	81.0	27.2	79	se.	3	1.3		3 c	1 k	w.	se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.84	757.9	29.86	758.4	68	20.0	92	w.	10	4.5			10 n			0.20	5.1	light rain	H. Mc P. Baldwin
Knoxville, Tennessee	28.95	735.3	29.97	761.2	59	15.0	78	n.	5	2.2		0	3 s		n.	0.20	5.1	clear	J. A. Cody.
La Crosse, Wisconsin	29.00	736.6	29.76	755.9	55	12.8	61	w.	5	2.2		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.11	739.4	29.99	761.7	56	13.3	69	w.	2	0.9		0	0			0.02	0.5	clear	A. W. Browne.
Lewiston, Idaho	29.17	740.9	30.01	762.2	57.0	13.9	80	ne.	2	0.9			10 s		w.	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.74	755.4	30.05	763.3	61	16.1	78	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.69	754.1	30.09	764.3	56	13.3	93	calm	0	0			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.32	744.7	29.87	758.7	61	16.1	84	s.	6	2.7		0	2 ks			0.04	1.0	clear	L. M Dey.
Lynchburg, Virginia	29.12	739.6	29.80	756.9	69	20.6	57	sw.	2	0.9		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	28.95	735.3	29.60	751.8	49.2	9.6	80	w.	10	4.5			10 s		nw.	0.02	0.5	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.84	757.9	29.85	758.2	68.0	20.0	100	w.	2	0.9			10 n		sw.	2.85	72.4	light rain	William Daly.
Maginnis, Fort, Montana	25.51	647.9	29.92	760.0	47	8.3	52	nw.	12	5.4			10 s		nw.	0	0	cloudy	F. Burke.
Marquette, Michigan	28.85	732.8	29.57	751.1	54	12.2	61	w.	13	5.8		2 c	0	w.		0.19	4.8	clear	E. H. Thompson.
Memphis, Tennessee	29.70	754.4	30.03	762.7	64	17.8	78	sw.	4	1.8		1 cs	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	28.98	736.1	29.72	754.9	55	12.8	74	nw.	12	5.4		4 c	0	w.		0	0	fair	W. Line.
Missoula, Fort, Montana	26.63	676.4	29.93	760.2	52	11.1	74	sw.	3	1.3			9 s			0	0	cloudy	J. H. Young.
Mobile, Alabama	30.05	763.3	30.09	764.3	66.7	19.3	91	n.	1	0.4		4 cs	0	sw.		0.65	16.5	fair	C. A. Read.
Montgomery, Alabama	29.76	755.9	29.99	761.7	64	17.8	85	nw.	4	1.8		2 ck	0	w.		0.27	6.9	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.79	731.3	29.77	756.1	45	7.2	83	n.	5	2.2		0	0			0.03	0.8	clear	H. Bessant.
Mt. Washington, N. H.	23.48	596.4	29.66	753.4	42.0	5.6	100	w.	58	26.0			fg.		w.	0.07	1.8	dense fog	S. W. Beall.
Nashville, Tennessee	29.40	746.7	29.97	761.2	57.5	14.2	86	w.	1	0.4		0	4 k		w.	0.02	0.5	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.58	751.3	29.70	754.4	59.3	15.2	96	sw.	4	1.8			10 n			0.30	7.6	light rain	J. H. Sherman.
New London, Connecticut	29.80	756.9	29.84	757.9	59	15.0	93	sw.	4	1.8			10 n			0.21	5.3	light rain	J. G. Lynch.
New Orleans, Louisiana	30.05	763.3	30.10	764.5	68.0	20.0	93	w.	4	1.8		0	fg.			2.39	60.7	dense fog	H. C. Smyth.
New York, New York	29.57	751.1	29.75	755.6	63	17.2	93	w.	5	2.2		3 cs	5 s	w.		0.14	3.6	cloudy	G. E. Franklin.
Norfolk, Virginia	29.78	756.4	29.81	757.2	68	20.0	93	sw.	6	2.7			10 n			0.33	8.4	light rain	Wm. Davis.
North Platte, Nebraska	27.14	689.3	30.01	762.2	46.6	8.1	70	w.	2	0.9		0	2 s			0.15	3.8	clear	E. F. Brady.
Olympia, Washington T'y	30.23	767.8	30.27	768.8	46.0	7.8	83	calm	0	0			10 s			0.02	0.5	cloudy	J. Dascomb.
Omaha, Nebraska	28.80	731.5	29.96	761.0	53.3	11.8	80	w.	4	1.8		0	0			0.06	1.5	clear	A. Pollak.
Ooglaamie, Alaska	30.09	764.3	30.11	764.8	24.2	— 4.3	100	ene.	6	2.7		5 cs	2 s	w.		0	0	fair	P. H. Ray.
Oswego, New York	29.42	747.3	29.75	755.6	53.0	11.7	86	w.	12	5.4		0	1 s		sw.	0.47	11.9	clear	J. G. Linsley.
Palestine, Texas	29.61	752.1	30.16	766.1	60.5	15.8	80	n.	5	2.2		5 cs	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	66.2	19.0	93	nw.	5	2.2		9 cs	0	w.		0.50	12.7	cloudy	M. McGauran.
Philadelphia, Pa	29.67	753.0	29.77	756.1	68	20.0	90	sw.	7	3.1		2 ck	4ks;fg	w	sw.	0.01	0.3	fair	T. F. Townsend.
Pike's Peak, Colorado	17.95	455.9	30.01	762.2	20	— 6.7	80	nw.	39	17.4		0	0			0	0	clear	H. Hall.
Ploche, Nevada	24.20	614.7	30.12	765.0	48.5	9.2	52	sw.	1	0.4		7 cs	0			0	0	fair	F. R. Day.
Pittsburg, Pennsylvania	29.04	737.6	29.84	757.9	54.0	12.2	86	w.	2	0.9			10 s		w.	0.36	9.1	cloudy	W. A. Reid.
Poplar River, Montana	27.76	705.1	29.88	758.9				sw.			4	0	0			0.12	3.0	clear	W. D. Maxwell.
Port Huron, Michigan	29.03	737.3	29.71	754.6	50.0	10.0	86	s.	12	5.4		0	0			0.93	23.6	clear	M. H. Perry
Portland, Maine	29.58	751.3	29.63	752.6	56	13.3	86	s.	16	7.2			10 n		s.	0.45	11.4	light rain	W. W. Eichelberger
Portland, Oregon	30.12	765.0	30.19	766.8	53.5	11.9	77	nw.	2	0.9		10 cs	0			0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					68	20.0	100	sw.	12	5.4			10 n			2.30	58.4	heavy rain	F. P. Chaffee.
Prescott, Arizona	24.88	631.9	29.98	761.5	47.0	8.3	42	s.	4	1.8		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.70	754.4	29.73	755.1	59	15.0	93	s.	20	8.9			10 n		s.	0.31	7.9	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	77.5	25.3	82	sw.	16	7.2		3 c	1 k	sw.	sw.	0	0	fair	W. J. Evans.
Red Bluff, California	29.65	753.1	30.00	762.0	66	18.9	68	s.	6	2.7		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.10	739.1	29.76	755.9	54	12.2	80	w.	12	5.4		3 k	hz.	w.		0.66	16.8	clear	E. W. McGann.
Roseburg, Oregon	29.64	752.8	30.19	766.8	51	10.6	83	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.92	760.0	30.00	762.0	65.0	18.3	81	se.	3	1.3		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.34	745.2	29.93	760.2	56.5	13.6	90	sw.	10	4.5		7 ck;c	0	sw.		0.03	0.8	fair	J. H. Weber.
St. Michael, Fort, Alaska	30.12	765.0	30.15	765.8	40	4.4	100	calm	0	0			10 n			0.05	1.3	light rain	A. P. Leavitt.
St. Paul, Minnesota	28.90	734.0	29.74	755.4	49.5	9.7	81	w.	2	0.9		1 k	0	s.		inap.	inap.	clear	P. F Lyons.
St. Vincent, Minnesota	28.89	733.8	29.75	755.6	41	5.0	88	nw	8	3.6		3 cs	0			inap.	inap.	clear	C. B. Dilley
Salt Lake City, Utah	25.75	654.0	30.07	763.8	58.2	14.0	35	s.	2	0.9		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.45	748.0	30.15	765.8	62	16.7	72	n.	2	0.9		0	0			0	0	clear	J. H. Davis.
San Diego, California	29.94	760.5	30.01	762.2	60.2	15.7	92	n.	2	0.9			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.70	754.4	29.73	755.1	64.0	17.8	93	w.	10	4.5		10 k	0	w.		0.03	0.8	cloudy	B. A. Blundon.
Sanford, Florida	29.95	760.7			75.5	24.2	84	sw.	6	2.7			10 s			0.01	0.3	cloudy	J. B. Marbury.
San Francisco, California	29.97	761.2	30.04	763.0	51	10.6	96	w.	13	5.8			fg.			0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.36	593.3	29.97	761.2	43	6.1	30	ne.	5	2.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.86	758.4	29.94	760.5	73.0	22.8	83	w.	8	3.6		5 cs	4 ks		sw.	0.09	2.3	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.34	669.0	29.95	760.5	51	10.6	80	ne.	6	2.7		10 cs	0			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.90	759.4	30.14	765.5	61.3	16.3	83	nw.	2	0.9		8 c	0	w.		0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.88	733.5	30.10	764.5	55	12.8	77	s.	4	1.8		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	30.17	766.3	30.23	767.8	42.5	5.8	83	e.	4	1.8			10 n		e.	0.58	14.7	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.62	752.3	30.09	764.3	56.5	13.6	86	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.84	757.9	29.88	758.9	69	20.6	93	w.	5	2.2			10 n		w.	1.09	27.7	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.00	711.2	30.05	763.3	50.9	10.5	66	s.	3	1.3		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.19	741.4	29.86	758.4	59	15.0	70	w.	5	2.2		4 c	3 s	w.	w.	0.13	3.3	fair	T. B. Jennings.
Springfield, Missouri	28.62	726.9	30.04	763.0	56	13.3	80	w.	14	6.3		0	0			0	0	clear	J. H. Bryce.
Starkville, Miss	29.60	751.8	30.07	763.8	62	16.7	73	sw.	4	1.8		0	0			0.57	14.5	clear	C. Dill.
Stevenson, Fort, Dakota																inap.	inap.		A. Schneider.
Stockton, Fort, Texas	27.11	688.6	30.12	765.0	60	15.6	78	se.	12	5.4		2 c	0	se.		0	0	clear	A. J. Warren.
Thatcher's Island, Mass	29.66	753.4	29.71	754.6	53.5	11.9	93	sw.	16	7.2			10 n			0.02	0.5	light rain	G. Liebmann.
Thomas, Camp, Arizona	27.28	692.9	29.96	761.0	54	12.2	57	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.09	738.9	29.77	756.1	57	13.9	74	sw.	9	4.0		1 c	0	w.		1.10	27.9	clear	A. Buell.
Tucson, Arizona	27.58	700.5	29.92	760.0	62	16.7	36	s.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.94	760.5	29.96	761.0	35	1.7	89	s.	2	0.9		4 k	0	s.		0.03	0.8	fair	Samuel Applegate.
Verde, Fort, Arizona					60	15.6	19	e.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.85	758.2	30.10	764.5	65.0	18.3	81	n.	1	0.4		6 c	0			0.01	0.3	fair	James Kenealy.
Visalia, California	29.58	751.3	29.94	760.5	64.9	18.3	77	n.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.50	622.3	29.98	761.5	41.0	5.0	55	sw.	4	1.8		7k;ck	0	sw.		0	0	fair	T. M. Ambler.
Washington, D. C.	29.67	753.0	29.78	756.4	67.5	19.7	71	calm	0	0		5 k	0	w.		0.01	0.3	fair	T. B. Harrison.
West Las Animas, Colorado	26.17	664.7	30.02	762.5	41.5	5.3	88	s.	1	0.4		3 c	0	s.		0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.20	741.7	29.80	756.9	60.3	15.7	65	nw.	5	2.2		0	1 k		w.	0.08	2.0	clear	B. F. Hough.
Wilmington, N. Carolina	29.83	757.7	29.88	758.9	69	20.6	93	w.	1	0.4			10 n		sw.	0.46	11.7	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.74	653.8	30.08	764.0	45	7.2	59	calm	0	0		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.65	727.7	29.93	760.2	53	11.7	72	w.	12	5.4		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.72	754.9	29.87	758.7	65.0	18.3	78	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			55.0	12.8	77	s.	2	0.9			10 s		n.	0.28	7.1	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.05	763.3			77	n.	1	0.4		1 cs	7 s		e.	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	80	26.7	82	se.			2	4 c	6 k	e.	e.	1.640	41.7	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761.5	76	24.4	94	calm			0		10 ks		calm	0.91	23.1	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79.5	26.4	90	ne.			1		10 ks		ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon
Santiago de Cuba, W. I	30.01	762.2	30.04	763.0	81	27.2	79	calm	0	0		0	0			0	0		R. Mason.
York Factory, B. A.	29.87	758.7	29.93	760.2	38.5	3.6	95	nw.	13	5.8		4 k	4 s	nw.	nw.	0	0	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic																		
H. M. S. Alexandria, Cattaro, Hungary	30.07	763.8	74	23.3	72	w.			1		4	wsw.						d. clouds.
H. M. S. Dido, St. Kitts, W.I.	30.12	765.0	81	27.2		e.			2		8	e.						d. clouds.
H. M. S. Himalaya, N. 47° 41′, W. 6° 08′	29.98	761.5	57	13.9	75	w.			2		7					2	wnw.	d. clouds.
H. M. S. Iris, Port Said, Egypt	30.03	762.7	72	22.2	79	nnw.			2		1							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	29.98	761.5	67.5	19.7	79	w.			3		4	wnw.						d. clouds.
H. M. S. Opal, N. 30° 37′ W. 18° 03′	30.17	766.3	68	20.0	90	n.			3		3	nne.				2	ne.	d. clouds.
H. M. S. Rocket, N. 45° 32′, W. 16° 23′	30.05	763.3	59	15.0	94	wsw.			3		8					2	wsw.	overcast.
H. M. S. Tyne, Carlisle Bay, Barbadoes, W.I.	30.05	763.3	81	27.2	78	e			2		10	e.				3	e.	d. clouds.
H. M. S. Tenedos, N. 46° 13′, W. 53° 49′	30.16	766.1	42	5.6	83	ese.			2		3	ene.				1	wnw.	d. clouds.
U. S. Navy Yard, Pensacola, Fla.	30.03	762.7	66	18.9	94	nw.	7	3.1			8		nw.	0.12	3.0			fair
U. S. Navy Yard, Portsmouth, N. H*	29.59	751.6	60	15.6	76	s.	4	1.8			10		s.	0.2	5.			raining.
U. S. S. Alliance, Norfolk, Va	29.82	757.4	69	20.6	95	sw.			1		10			light	light			cloudy
U. S. S. Colorado, New York, N. Y.	29.85	758.2	64	17.8	94	s.	4	1.8			0?			0.05	1.3			cloudy?
U. S. S. Franklin, Norfolk, Va	29.81	757.2	69	20.6	?	wsw.	8	3.6			10		calm	0.16	4.1			rainy.
U. S. S. Jamestown, Newport, R.I.*†	29.81	757.2	56	13.3	94	sw.			3		10							raining.
U. S. S. Kearsarge, New York, N. Y.	29.71	754.6	66	18.9	89	wsw.			3		8		w.					fair.
U. S. S. Lancaster, Kronstadt, Russia	29.59	751.6	52	11.1	93	w.			5		8		w.			mod	w.	fair.
U. S. S. Michigan, Erie, Pa			56	13.3	75	ssw.			2		0							clear.
U. S. S. Minnesota. New York, N. Y.	29.74	755.4	62	16.7	100	sw.			2		8		sw.					clearing.
U. S. S. New Hampshire, Newport, R.I.	29.69	754.1	57	13.9	100	sw.			5		10		sw.			mod	sw.	rainy.
U. S. S. Portsmouth, Newport, R.I.	29.79	756.7	55	12.8	100	ssw.			3		10							raining.
U. S. S. Powhatan, Key West, Fla.	30.08	764.0	80	26.7	96	sse.			2		5							fair.
U. S. S. Quinnebaug, Sierra Leone, Africa	29.96	761.0	80	26.7	78	wsw.			2		5		s.			sm'h		fair.
U. S. S. Saratoga, New York, N. Y	29.74	755.4	63	17.2	94	nw.			2-3		5		nw.	light	light	sm'h	w.	fair.
U. S. S. St. Louis, League Island, Pa.	29.72	754.9	69	20.6	85	wnw.	6.4	2.9			5		nw.	0.01	0.3			fair.
U. S. S. Swatara, Key west, Fla†	30.09	764.3	80	26.7	82	s.			2		2		s.	0	0	sm'h		fair.
U. S. S. Tennessee, New York, N. Y	29.75	755.6	66	18.9	100	sw.	4	1.8			8			0.1	3.			clearing.
U. S. S. Vandalia, New York, N. Y	29.72	754.9	65	18.3	94	sw.			2		8		sw.					fair.
U. S. S. Wabash, Boston, Mass.	29.70	754¼	63	17.2	88	sw.	12	5.4			10		sw.	0.10	2.5			cloudy
U. S. S. Yantic, New York, N. Y	29.71	754.6	65	18.3	89	wsw.			2		8							fair.
Commewyne, N. 45° 34′, W. 24° 20′	29.90	759.4	61	16.1	89	sw.			5		8							misty.
S. S. Inchkeith, N. 18° 30′, W. 36° 15′	30.20	767.1	73.8	23.2	81	ne.			5		5							d. clouds.
S. S. British Crown, N. 49° 00′, W. 27° 38′†	29.59	751.6	59	15.0		w.			6		5?		nw.	8 h'r	8 h'r	mod.	w.	clear?
S. S. British Prince, N. 49° 11′ W 26° 24′ †	29.75	755.6	54	12.2		wsw.			6		8		w.	8 h'r	8 h'r	mod.	wsw.	cloudy.
S. S. Illinois, N. 39° 48′, W. 55° 00′*	30.26	768.6	68	20.0		wsw.			2		5		w.			sm'h	wnw.	hazy.
S. S. Ohio, Philadelphia, Pa †	29.76	755.9	69	20.6	85	w.			3		6		sw.	8 h'r	8 h'r			clear?
S. S. Pennsylvanian, Liverpool, Eng †	29.92	760.0	77	25.0		nw.			1		2		nw.					fair.
S. S. Circassian, N. 51° 27′, W. 35° 36′	29.28	743.7	47	8.3	85	nnw.			6		8					6	w.	showery.
S. S. Nova Scotian, N. 52° 04′, W. 27° 54′	29.42	747.3	60	15.6		wsw.			4		8		wsw.			mod.	wsw.	gloomy.
S. S. Manitoban, Quebec, Canada	29.66	753.4	42	5.6	91	ene.			5		5		ne.	0	0			hazy.
S. S. Alene, N 23° 06′, W. 74° 25′ †	30.15	765.8	78	25.6		e.			3		0			0	0	sm'h	sw.	fine.
S. S. Ailsa. N. 20° 51′. W. 74° 10′ †	29.94	760.5	83	28.3		ne.			4									
S. S. Anchoria, N. 40° 49′, W. 67° 02′	29.97	761.2				ssw.			4		8		sw.	0	0	sm'h		fine.
S. S. Assyria, N. 40° 26′, W. 72° 22′	29.72	754.9	56	13.3		sw.			5		10		sw.	7 h'r	7 h'r	mod.	sw.	raining.
S. S. Bolivia, N. 44° 13′, W. 44° 20′ *†	30.20	767.1	55	12.8		wnw.			3		8		nw.	0	0	long	nw.	cloudy.
S. S. Dorian, N. 45° 09′ W. 38° 45′	29.93	760.2	54	12.2		wnw.			6		8		n.	sh'rs	sh'rs	r'gh	nw.	cloudy.
S. S. Devonia, N. 54° 00′, W. 21° 10′ *†	29.40	746.7	52	11.1		sw.			4		9		sw.			mod.	sw.	cloudy.
S. S. Furnessia, N. 40° 32′. W. 68° —			69	20.6	92	ssw.			2		10		s.	0	0			cloudy.
S. S. Llandaff City, New York, N.Y†	29.75	755.6	63	17.2		w.			2		8		sw.	6 h'r	6 h'r			cloudy.
S. S. Marathon, Fiume, Austria	29.97	761.2	73	22.8		wnw.			1		2		wnw.	0	0	sm'h	w.	clear.
S. S. Pavonia, N. 41° 53′ W. 58° 20′	30.07	763.8	62	16.7	88	wsw.			3		6		w.	0	0	sm'h		fine.
S. S. Colina, N. 47° 10′, W. 52° 08′ †	30.00	762.0				ssw.			1		3		w.	0	0	sm'h	nw.	clear.
S. S. Ville de Marseilles, N. 24° 45′, W. 56° 22′			75	23.9		se.			3		2		se.	0	0	sm'h		clear.
S. S. Abyssinia, N. 42° 42′, W. 55° 00′	30.15	765.8	61	16.1	100	wsw.			4		3		wsw.	0	0	sm'h		
S. S. Wisconsin, N. 44° 36′, W. 43° 46′			50	10.0		nnw.			4		10		n.	0	0	mod.	n.	cloudy.
S. S. Wyoming, N. 51° 30′ W. 8° 52′	29.99	761.7	54	12.2		ssw.			4		9		wsw.	0	0	long	w.	threatening.
S. S. Bohemia, N. 49° 00′, W. 28° 15′						ssw.			5-6		8		nw.	20 h'r	20 h'r	long	w.	squally.
S. S. Gellert, Hamburg, Germany			66	18.9	79	sw.			2		1?		nw.	2 h'r	2 h'r			covered?
S. S. Rugia, Hamburg, Germany	29.74	755.4	64	17.8		s.			6		8		s.	½ h'r	½ h'r			rainy.
S. S. Silesia, N. 18° 30′, W. 67° 00′	30.02	762.5	81	27.2		ene.			5		3		ne.	0	0			fair.
S. S. Westphalia, N. 49° 57′, W. 10° 24′	30.07	763.8	56	13.3	94	ssw.			5		10			3 h'r	3 h'r		w.	squally.
S. S. City of Berlin, N. 50° 55′, W. 22° 48′	29.57	751.1	56	13.3	94	w.			5		8		w.	0	0	mod.	sw.	fine.
S. S. City of Paris, N. 46° 02′, W. 33° 42′						sw.			6				sw.	3 h'r	3 h'r	r'gh	sw.	squally.
S. S. Virginian, N. 48° 35′, W. 29° 29′ *	29.58	751.3	54	12.2		wsw.			6		5		wsw.	7 h'r	7 h'r	r'gh	wsw.	fair.
S. S. Archimedes, N. 19° 29′, W. 56° 18′	30.10	764.5				e.			3		2		ne.	0	0	light	ne.	clear.
S. S. Colorado, Galveston, Texas †	30.15	765.8	60	15.6		n.			2		1		n.	3 h'r	3 h'r			clear.
S. S. Rio Grande, N. 26° 46′, W. 80° 06′*†	30.04	763.0	80	26.7		sw.			1		1		sw.	0	0	sm'h		clear.
S. S. San Marcos, N. 26° 20′, W. 79° 50′			81	27.2		s.			0		0					mod.		clear.
S. S. Chalmette, N. 38° 30′ W. 74° 20′†	29.83	757.7	69	20.6		ssw.			4		10		sw.	6 h'r	6 h'r	mod.	ssw.	cloudy.
S. S. New York, N. 29° 16′, W. 80° 30′ *†	30.04	763.0	75	23.9		s.			2		2		s.			sm'h		clear.
S. S. Archimede, N. 41° 00′ E. 2° 36′†	30.04	763.0	72	22.2	71	ne.			3		4		ne.	0	0	r'gh	ene.	fair.
S. S. City of Meridia, N. 31° 40′, W. 80° 00′ †	30.01	762.2	82.4	28.0		sw.			1		5		sw.	0	0	light	se.	fair.
S. S. City of Washington, Vera Cruz, Mexico†	30.08	764.0	81	27.2		w.			1		5		se.	0	0	sm'h		fair.
S. S. Denmark, London, Eng †	29.95	760.7	62	16.7		nnw.			2		2		w.	9 h'r	9 h'r			clear.
S. S. Egypt, N. 50° 17′ W. 28° 53′*†	29.55	750.6	50	10.0		wsw.			5		8		wsw.	6 h'r	6 h'r	r'gh	wsw.	cloudy.
S. S. Helvetia, N. 48° 00′, W. 29° 04′	29.66	753.4	59	15.0	88	wnw.			5		10		wnw.	10 h'r	10 h'r	sl't	w.	cloudy.
S. S. Holland, N. 46° 15′, W. 30° 34′	29.90	759.4	58	14.4		w.			4		8		wsw.	6 h'r	6 h'r	mod.	sw.	cloudy.
S. S. The Queen, N. 40° 35′, W. 72° 38′	29.73	755.1	57	13.9	75	sw.			5		10		sw.	6 h'r	6 h'r	mod.	sw.	rainy.
S. S. Donau, N. 47° 59′, W. 23° 20′	29.81	757.2				ssw.			5		10		sw.			r'gh	ssw.	hazy.
S. S. Elbe, Bremerhaven, Germany			59	15.0	70	w.			3-4		7		sw.	4 h'r	4 h'r			squally.
S. S. Fulda, N. 44° 37′, W. 40° 50′	29.97	761.2	52	11.1	86	wnw.			6		7		wnw.	3 h'r	3 h'r	cross	nw.	fair.
S. S. Hohenzollern, N. 40° 09′, W. 63° 58′*	30.06	763.5	69.8	21.0		sw.			6		2		sw.	0	0	mod.	sw.	clear.
S. S. Hohenstaufen, N. 46° 07′, W. 39° 02′	29.83	757.7				nw.			6		9		nw.	5 h'r	5 h'r	r'gh	nw.	squally.
S. S. Main, N. 49° 20′, W. 17° 24′	29.79	756.7	55.4	13.0		wsw.			5		8		w.	7 h'r	7 h'r	mod.	wsw.	cloudy.
S. S. Neckar, N. 40° 10′, W. 69° 52′	29.83	757.7	54.0	12.2	100	ssw.			5		10		ssw.	driz.	driz.	mod.	ssw.	cloudy.
S. S. Ohio, N. 47° 18′, W. 14° 23′	30.02	762.5				wsw.			3		10		w.	1 h'r	1 h'r	mod.	wsw.	foggy.
S. S. Weser, N. 38° 37′, W. 64° 12′	30.16	766.1				ssw.			5-6		5		ssw.	0	0	mod.	sw.	fair.
S. S. Orinoco, Sandy Hook, N. J *†	29.74	755.4	68	20.0		nw.			2		9			3 h'r	3 h'r	light	ssw.	hazy.
S. S. Colon, N. 14° 48′, W. 76° 24′†	29.97	761.2	83	28.3		ene.			6		5		ene.	0	0	mod.	ene.	fair.
S. S. Muriel, off Sandy Hook, N. J.	29.72	754.9	62	16.7		sw.			3		10			0	0	long	s.	foggy.
S. S. City of Augusta, N. 36° 21′ W. 74° 58′†	29.81	757.2				ssw.			4		10		sw.	0	0	hv'y	se.	foggy.
S. S. Belgenland, N. 42° 35′, W. 48° 45′			64	17.8	89	wnw.			3		0			0	0	sm'h	s.	clear.
S. S. Nederland, N. 45° 21′, W. 31° 03′ *†	30.07	763.8	57	13.9		wsw.			4		2		w.	0	0	mod.	wsw.	clear.
S. S. Rhynland, N. 40° 28′, W. 68° 00′	29.89	759.2	51	10.6	86	s.			7		10			0	0	sm'h		overcast.
S. S. Pennland, New York, N. Y.			66	18.9	68	s.			2		0			0	0			clear.
S. S. Waesland, Antwerp, Belgium	30.00	762.0	56	13.3		wnw.			4		10		nw.	0.01	0.3			threatening.
S. S. P. Caland, N. 42° 38′, W. 42° 10′	30.07	763.8	59	15.0	85	nnw.			5		9		ese.			5	nw.	drizzling.
S. S. Leerdam, N. 40° 23′, W. 51° 37′	30.18	766.6	68	20.0	95	n.			2		2		n.			sm'h		clear.
S. S. W. A. Scholten, N. 48° 41′, W. 13° 31′	29.93	760.2	56.6	13.7	100	ssw.			6		10		sw.	10 h'r	10 h'r	sm'h	sw.	rainy.
S. S. Caracas, N. 30° 05′, W. 69° 50′ †	30.22	767.6	74	23.3	86	sse.			5		3		sse.	0	0	small	se.	clear.
S. S. Claudius, N. 43° 50′, W. 38° 35′ †	30.01	762.2	55.6	13.1	82	wnw.			6		8		nnw.	rain	rain	r'gh	var.	stormy.
S. S. Valentia, Curacoa, W.I.†	30.15	765.8	84	28.9	79	ne.			5		4		ne.	0	0			fair
S. S. State of Florida, N. 40° 40′, W. 56° 26′			67	19.4		ssw.			4		9		sw.	0	0	sm'h		cloudy.
S. S. State of Nebraska, N. 42° 30′, W. 54° 30′ *†	30.10	764.5	59	15.0		wsw.			4		2		w.	0	0	sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. State of Nevada, N. 55° 13′ W. 9° 44′†	29.84	757.9	52	11.1		s.			5		5		s.	0	0	mod.	nw.	fair.
S. S. Romano, Hull, Eng†	30.00	762.0	59	15.0		sw.			1									clear.
S. S. Dominion, N. 53° 51′, W 29° 14′*†	29.40	746.7	50	10.0		ssw.			3		10		ssw.			mod.	ssw.	hazy.
S. S. Toronto, N. 47° 37′, W. 59° 17	29.94	760.5	42	5.6		sse.			4		8		sw.	0	0	sm'h		cloudy.
S. S. Oregon, N. 49° 16′, W. 66° 06′	29.55	750.6	38	3.3		ne.			2		10		ne.					foggy.
S. S. Lake Huron, Liverpool, Eng			58	14.4		calm			0		1		ssw.	0	0	sm'h		clear.
S. S. Lake Manitoba, N. 48° 03′, W. 61° —′	29.77	756.1	40	4.4		sse.			5				sse.	2 h'r	2 h'r	mod.	s.	foggy.
S. S. Olbers, N. 40° 12′, W. 9° 44′†	30.12	765.0	66	18.9		nne.			5		7		nne.	0	0	sll't.	nnw.	fair.
S. S. Daniel Steinmann, Antwerp, Belgium			62	16.7		wnw.			4		1		wnw.	8 h'r	8 h'r			rainy.
S. S. Plantyn, N. 51° 14′, E. 3° 19′	29.95	760.7							2		3			0	0	sm'h	se.	clear.
S. S. Norman, N. 41° 18′, W. 71° 00′	29.65	753.1				sw.			5		10		sw.	4 h'r	4 h'r	rg'h	sw.	cloudy.
S. S. Saxon, Philadelphia, Pa†	29.79	756.7				nw.			3		5		nw.	0	0			fair.
S. S. Baltic, N. 51° 55′, W. 15° 58′*	29.72	754.9	57	13.9	94	wsw.			6		10		w.	24 h'r	24 h'r	mod.	wsw.	showery.
S. S. Celtic, N. 50° 47′, W. 16° 29′†	29.79	756.7	59	15.0		sw.			4		10			rain	rain	mod.	sw.	overcast.
S. S. Germanic, N. 40° 28′, W. 66° 47′†	29.72	754.9	55	12.8		s.			4		3		s.	0	0	sm'h	ssw	clear.
S. S. Iowa, off Kinsale, Ireland†	30.02	762.5	56	13.3		ssw.			4		5		ssw.	0	0	sm'h		fair.
S. S. Antonio Lopez, Santander, Spain	30.14	765.5	59	15.0	70	w.			3		10			1 h'r	1 h'r			cloudy.
Schr. Abbie H. Gheen, Mayport, Fla†	30.01	762.2	75	23.9		w.			3					0	0			squally.
Bg. Abbie Clifford, N. 36° 12′, W. 69° 27′†.	30.16	766.1	70	21.1		ssw.			4		9	w	sw.	0	0	mod.	sw.	cloudy.
Bk. Alpha, N. 53° 03′, W. 19° 50′*†	29.62	752.3	52	11.1		sw.			5		10		sw.	12 h'r	12h'r	long	wsw.	raining.
Bg. Alcira, Maracaybo, Venezuela	29.94	760.5	84	28.9		ese.			2		6		e.	0	0			fair.
Bk. Adelaide, N. 4° 45′, W. 29° 18′ *†	30.04	763.0	82	27.8		ne.			5		10		ne.	2 h'r	2 h'r	mod.	ne.	cloudy.
Schr. Annie R. Lewis, Maunabo, Porto Rico, W. I†	30.20	767.1	85	29.4		e.			3		3		e.	0	0	mod.	ese.	clear.
Schr. Arthur Burton, St. Simons Island, Ga*†	29.90	759.4				sw.			2		1		sw.	2 h'r	2 h'r			fine.
Bk. Aureola, N. 29° 00′, W 60° 33′†	30.18	766.6	84	28.9		ene.			2		5		ne.	0	0	sm'h		fair.
Bk. Achille F., N. 3° 15′, W. 25° 45′†	29.99	761.7	79	26.1	91	sw.			2		4		sse.	6 h'r	6 h'r	long	sse.	fine.
Bk. Arda, N. 45° 23′, W. 65° 00 *†	30.00	762.0				wsw.			3		fg.		sw	1 h'r	1 h'r	sm'h		foggy.
Bk. Alba, N. 58° 28′, W. 49° 59′*†	29.83	757.6	38.3	3.5		wnw.			3									snowing.
Bg. Annie R. Storer, N. 36° 02′, W. 74° 10′†	29.96	761.0				ssw.			5		10		w.	3 h'r	3 h'r	r'gh	sw.	squally.
Bgt. Achsah, N. 22° 07′, W. 65° 44′†	30.08	764.0	82	27.8		ene.			2		4		ene.	0	0	mod.	ene.	clear.
S. S. Burswell, N. 37° 11′, E. 1° 58′ *†	29.96	761.0	73	22.8		se.			2		10		calm	8 h'r	8 h'r	st'g	wsw.	overcast.
Bg. Belle of the Bay, N. 26° 10′, W. 86° 03′†	30.12	765.0				wsw.			2		8		sw.	0	0	sm'h	sw.	overcast.
Bk. Champion, N. 31° 08′, W. 71° 47′			78	25.6	86	ssw.			3		2		ssw.	0	0	sm'h		clear.
Schr. C. R. Flint, N. 32° 44′, W 69° 45′-†	30.15	765.8	68	20.0		s.			2		2		ssw.	0	0	sm'h	s.	clear.
Bk. Childwall, N. 33° 40′, W. 32° 39′			72	22.2		ssw.			1		7		var.	0	0	sm'h		fine.
Schr. Clotilde, N. 23° 06′, W. 83° 43′ *†	30.05	763.3	85	29.4		e.			2		2		e.	0	0	sm'h		clear.
S. Criterion, N. 57° 00′, W. 13° 26′*†	29.35	745.5				sse.			7		10		sse.	sh'rs	sh'rs	light	w.	rain & fog.
S. David Steward, N. 30° 00′, W. 43° 26′ †	30.22	767.6				sw.			2		3?		sw.	6 h'r	6 h'r	mod.	sw.	cloudy?
S.S.D. J. Foley, Kingston, Jamaica, W. I*†	30.05	763.3	83	28.3	79	s.			1		2		se.	0	0			clear.
Bkt. David A. Preston, Navassa, W. I.			82	27.8		se.			4		10		se.	0	0	long	se.	
Schr. Edith R. Seward, Vivorilla Cays, C. A.†	30.12	765.0	89	31.7		e.			1		5		e.	¼ h'r	¼ h'r	sm'h	e.	fair.
S. E. J. Spicer, Liverpool, Eng	29.90	759.4	64	17.8	89	nnw.			2		0			0	0			clear.
Bk. E. D. Bigelow, N. 45° 58′, W. 31° 13′			62	16.7		wsw.			6		8		w.	3 h'r	3 h'r	long	w.	overcast.
U. S. Fish. Com. S. S. Fish Hawk, Glymont, Md†	29.95	760.7	75	23.9	60	calm			0		5		calm	0	0			fair.
H. P. M. S. Rio Lima, Porto Prayao, Cape Verd Ids.			77.0	25.0	82	nne.			2		0					3		blue sky.
Schr. F. E. McDonald, N. 33° 00′, W. 77° 00′†	29.97	761.2				ssw.			6									stormy.
Bk. George Davis, N. 46° 58′ W. 32° 14′						w.			6				wnw.	0	0	r'gh	w.	fair.
Bk. Gronsaver, N. 25° 40′, W. 63° 48′†	30.16	766.1	80.4	26.9							2		ese.	0	0	long	n.	fair.
Bk. Galeon, N. 20° 49′ W. 90° 83′ †	30.07	763.8	76	24.4		e.			2		0			0	0	sm'h	sse.	blue sky.
S. Hedwig, N. 39° 00′, W. 18° 31′	30.24	768.1	63.1	17.3	91	s.			3		9		var.	0	0	2	nw.	
Bk. Hattie G. McFarland, Port Royal, S. C*†	29.90	759.4	72	22.2		w.			4		0		nw.	4 h'r	4 h'r			showery.
Bk. John H. Pearson, N. 17° 36′, W. 18° 04′						n.			4					0	0	short	ne.	clear.
Bk. Cato, N. 63° 11′, E. 2° 30′*†	29.73	755.1				nw.			3		2		sw.	0	0	sm'h	w.	clear.
Bk. Johanne, N. 38° 06′ E. 0° 02′*†	29.85	758.2	68	20.0		nne.			5		4		ne.	2 h'r	2 h'r	sm'h		squally.
Schr. John L. Thomas, N. 32° 18′, W. 71° 12′*†	30.18	766.6				s			3		4		sw.	0	0	light	s.	threatening.
Bg. John Wesley, N. 33° 35′, W. 69° 11′*†	30.09	764.3				s.			4		8		s.	0	0	mod.	s.	cloudy.
Schr. Jennie N. Huddell, N. 35° 20′, W. 75° 40′†	29.88	758.9	69	20.6	100	ssw.			9		10		nw.	3 h'r	3 h'r	h'vy		stormy.
Bkt. Josephine, N. 32° 03′, W. 68° 32′†	30.16	766.1	73	22.8	67	s.			4		2		s.	0	0	sm'h		clear.
Bg. L. & W. Armstrong, N. 41° 06′, W. 71° 51′*†	29.78	756.4				ssw.			5		0			3 h'r	3 h'r	sm'h		hazy.
Light House Tender, Laurel, Pensacola Bay, Fla†	30.08	764.0	69	20.6		nw.			1		7		nw.	0	0			fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	77	25.0		calm			0		2			0	0			clear.
Bk. Milo, N. 49° 51′, W. 22° 59′†	29.50	749.3				s.			8–9				wsw.			short	wsw.	rain & fog.
S. S. Madrid, Point Porman, Spain†	29.94	760.5	68	20.0	84	sse.			4		8		se.	0	0	mod.	se.	fair.
Schr. Minnie A. Bonsall, Hoboken, N. J†	29.76	755.9	70	21.1		w.			1		6		w.	4 h'r	4h'r			fair.
Bkt. Kryolith, N. 59° 53′ W. 46° 50′ *†	29.70	754.4				nw.			6		5		nw.	snow	snow			fair.
Bk. Matilda C. Smith, N. 41° 20′, W. 40° 40′ †	30.11	764.8				nw.			5		4		nw.	6 h'r	6 h'r	mod.	nw.	fine.
Bgt. Myrtle, N. 26° 18′, W. 58° 06′						ene.			2		1		e.	0	0	sm'h		
Bk. Matthias, N. 43° 16′, W. 29° 34′*†	30.15	765.8	64	17.8		wsw.			4–5		8		w.	0	0	long	wsw.	hazy.
S.S. Mendoza, N. 30° 43′, W. 70° 35′..†	30.20	767.1				se.			2				sw.	0	0	sm'h	se.	clear.
Schr. Maud Briggs, Barbadoes, W. I*†	30.10	764.5				ene.			4		5		ene.	6 h'r	6 h'r			fair.
Bk. Ottawa, N. 42° 25′, W. 28° 17′ *	30.00	762.0	65	18.3		sw.			4		8		sw.	0	0	mod.	nw.	fair.
S. S. Raleigh, N. 28° 10′, W. 73° 59′†	30.13	765.3	75	23.9		se.			2		9		se.					clearing.
Bg. Rising Sun, N. 34° 05′, W. 69° 00′*†	30.15	765.8	73	22.8		s.			6		2		ssw.	0	0	mod.	sw.	
Bk. Rosalie Saint John, Antigua, W. I*†	30.08	764.0				ene.			3				ese.	½h'r	½h'r			cloudy.
Bk. Rosino, N. 39° 48′, W. 63° 14′.			71	21.7		s.			5				s.	0	0	mod.	s.	cloudy.
Bk. Scud, N. 28° 08′, W. 54° 00′*†	30.21	767.3	78	25.6		n.			2		8		n.	2 h'r	2 h'r	sm'h		raining.
Bk. Southern Belle, N. 33° 30′, W. 18° —†	30.22	767.6	65	18.3		ne.			2		0			0	0			clear.
S. St. Francis, N. 46° 40′ W. 29° 30′.			56	13.3	75	sw.			8		0		sw.	3 h'r	3 h'r	high	sw.	fair.
Bgt. Sunlight, N. 24° 00′, W. 65° 17′						se.			5		4		se.	0	0	mod.		fair.
Bg. Teneriffe, N. 31° 56′, W. 74° 00*..	29.93	760.2				s.			6		5					sm'h		
Bk. Tuck Sing, N. 20° 30′, W. 78° 55′ *†	29.98	761.5				ene.			2		2		ene.	0	0	sm'h		fine.
Bk. Usko, N. 44° 54′, W. 21° 02′*	30.00	762.0	67	19.4		wsw.			2		4		wsw.	0	0	mod.	wnw.	fair.
Schr. Viola Reppard, Boston, Mass.			68	20.0		sw.			3		10		sw.	2 h'r	2 h'r			cloudy.
Bkt. Wandering Jew, N. 29° 32′, W. 74° 50′†.	30.10	764.5	73	22.8		s.			6		4		ssw.	0	0	sm'h		clear.
Bk. Winifred, off Cape Henry, Va*†	29.70	754.4											sw.	0	0	sm'h	sw.	clear.
S. Wm. Wilcox, N. 34° 00′, W. 76° 50′.						ssw.			6		10			3 h'r	3 h'r	high	s.	squally.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay *†	30.56	776.2	51	10.6	96	n.			3		2	ne.						d. clouds.
H. M. S. Boadicea, Cape Town, Cape Colony	30.17	766.3	61	16.1	94	calm			0		7							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata,	30.50	774.7	51	10.6	96	nw.			3		8	calm						d clouds.
H. M. S Thetis, S. 5° 37′ W. 21° 58′	30.06	763.5	79	26.1	78	ese.			3		3					2	sse.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.50	774.7	46	7.8	84	nw.	5	2.2			5		calm	0	0	sm'h		fair.
U. S. S. Galena, Montevideo, Uruguay*	30.48	774.2	47	8.3	85	wnw.			2		2					sm'h		clear.
May Hulse, S. 38° 54′, W. 29° 50′	29.73	755.1	51	10.6	65	wsw.			7		10							raining.
S. S. Hevelius, S. 23° —′, W. 43° 15′†	30.42	772.7	62	16.7		sw.			8		8		sw.	6 h'r	6 h'r	high	sw.	cloudy.
Bk. Alpheus Marshall, S. 34° 08′, E. 14° 00′*†	30.21	767.3				se.			3		3		sse.	1 h'r	1 h'r	r'gh	sw.	clear.
Bk. Horace Scudder, S. 8° 15′, W. 7° 37′*†	30.09	764.3	76	24.4		se.			4		5		se.	0	0	mod.	se.	fair.
S. Mt. Washington, S. 13° 23′, W. 34° 50′*†	30.15	765.8	83	28.3	79	ese.			3		2		ese.	0	0	long	ssw.	clear.
S. Minnie N. Gerow, S. 34° 21′, E. 2° 00′			56	13.3		se.			2		10		se.	0	0	mod.	se.	overcast.
S. Paramita, S. 1° 14′, W. 33° 10′†	29.96	761.0	81	27.2		ene.			2		1		ene.	0	0			clear.
S. Wm. McGilvery, S. 8° 44′, W. 33° 55′ *†	30.10	764.5	80	26.7	87	ese.			2		4		ese.	0	0	sm'h		fair.
S. S. Hermod, S. 15° 03′, W. 35° 12′†	30.06	763.5	82.4	28.0		ne.			1		1		se.	2 h'r	2 h'r	sm'h	nw.	clear.
H. P. M. S. Duque de Terceiva, Navo Redondo, Benguela	29.98	761.5	78.4	25.8	78	ssw.			3		4			0	0	3	sw.	d. clouds.
H. P. M. S. Rainha de Portugal, S. 1° 09′, E. 8° 41′	29.98	761.4	82.4	28	85	s.			4		0		s.	0	0	2	s.	d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.82	757.4	65	18.3	89	sw.			2		2	s.						raining.
H.M. S. Champion, N. 1° 43′, E. 110° 32′	29.80	756.9	82	27.8	87	e.			1		10							overcast.
H. M. S. Sappho, N. 13° 54′, W. 90° 49′	29.87	758.7	81	27.2	100	n.			1		5	se.				5	s.	d. clouds.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 21′	29.68	753.9	56	13.3	94	w.			2		0					2	w.	misty.
H. M. S. Magpie, N. 5° 17′, E. 115° 16′	29.88	758.9	82.0	27.8	83	calm			0		4							d. clouds.
H. M. S. Swiftsure, Esquimalt, Vancouver Id	30.19	766.8	50	10.0	93	calm			0		6	wsw.						d. clouds.
H. M. S. Zephyr, N. 34° 41′ E. 135° 12′	29.61	752.1	61	16.1	88	calm			0		3							d. clouds.
H. P. M. S. Tamega, Victoria Bay, China	29.82	757.5	80.2	26.8	89	ese.			3–6		2			10 h'r	10 h'r			d. clouds
U. S. Naval Hospital, Yokohama, Japan	29.50	749.3	61.5	16.4	72	sw.			1		0			0	0			clear.
U. S. S. Adams, Juman, Alaska†	30.25	768.3	42	5.6	91	calm			0		10					sm'h		light rain.
U. S. S. Hartford, Hilo, Sandwich Ids*	30.04	763.0	73	22.8	90	calm			0		2			0	0			clear.
U. S. S. Monocacy, Roze Id, Corea	29.68	753.9	57	13.9	94	w.			3		5		calm					misty.
U. S. S. Palos, Hong Kong, China	29.72	754.9	76	24.4	95	e.			2		10		e.					cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.71	754.6	77	25.0	100	e.			3		10		e.	2.9	58.			cloudy.
S. S. Coptic, N. 35° 00′, E. 139° 09′	29.49	749.0	62.0	16.7	72	wnw.			6		2		nw.	0	0	high	var.	misty.
S. S. City of Chester, off Point Arenas, Cal †	30.05	763.3	46	7.8	?	se.			4		fg			0	0	hv'y	nw.	
S. S. Willametta, Seattle, Wash. Ter *†	30.27	768.8	53	11.7	93	nw.			1		2		nw.	0	0			clear.
S. S. Ancon, N. 34° 01′, W. 119° 00′ †	30.02	762.5	56	13.3	94	sse.			2		10					sm'h		foggy.
S. S. Dakota, N. 45° 19′, W. 124° 55′ †	30.25	768.3	58	14.4	76	wnw.			3		8		nw.	0	0	light	nw.	cloudy.
S. S. G. W. Elder, N. 41° 52′, W. 124° 25†	30.07	763.8	48	8.9	92	nnw.			6		0					light	w.	clear.
S. S. State of California, Portland, Oregon †	30.24	768.1	53	11.7	86	calm			0		4		nw.					fair.
S. S. City of Pekin, N. 45° 20′, W. 145° 44′	30.26	768.6	50	10.0	86	sse			4		10		se.	0	0	small	se.	misty.
S. E. B. Sutton, N. 39° 30′, W. 130° 00′†	30.31	769.9	56	13.3	94	n.			5		0			0	0	r'gh	n.	clear.
S. S. City of Rio de Janeiro, N. 37° 00′, W. 175° 40′†	30.39	771.9	55	12.8	62	nw.			1		8		wnw.	0	0	light	s.	cloudy.
S. S. Granada, Panama Bay, Panama†	29.92	760.0	78	25.6	86	var.			1		4			0	0			fair
S. S. San Blas, N. 15° 05′, W. 94° 33′			84	28.9		w			2		6		sse.			small	ssw.	fair.
S. S. San José, N. 24° 11′, W. 111° 58′ †	29.89	759.2	63	17.2		nw.			3		fg.					long	wnw.	foggy.
S. Armenia, N. 37° 30′, W. 125° 10′*	29.98	761.5	57	13.9	81	n.			5		10		n.	0	0	rg'h	nnw.	overcast.
S. S. Benledi, N. 34° 30′, E. 138° 45′*	29.54	750.3	65	18.3	73	wnw.			0		0			0	0	hv'y	sw.	clear.
Bk. Bore, Macassar, Celebes Id*†	30.23	767.8	84	28.9		e.			1									
S. David Crocket, N. 4° 10′, W. 115° 00′*	29.87	758.7	81	27.2	83	se.			3		7		se.	0	0	sm'h	sse.	fair.
S. Grecian. N. 27° 24′, E. 137° 05′†	29.87	758.7	72	22.2	80	wnw.			4		4		wnw.	0	0	mod.	nw.	fair.
S. S. Malabar, Singapore, Malay Peninsula						var.					0			0	0	sm'h		clear.
S. S. Radnorshire, Hong Kong, China *†	29.80	756.9				sw.			3		6		sw.	2 h'r	2 h'r	h'vy	ne.	raining.
S. Titan, N. 40° 44′, W. 135° 59′ *†	30.46	773.7	58	14.4	100	ene.			1		9		e.	0	0	sm'h	nw.	dense fog.
Bk. Xenia, Yang-tsi-Kiang river, China	29.95	760.7	62	16.7		wsw.			5				nw.	0	0			fair.
U. S. S. Ranger, Acapulco, Mexico	29.98	761.5	83	28.3	79	calm			0		5			0	0	sm'h		fair.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			58	14.4	64	calm			0		3	w.						d. clouds
H. M. S. Espiegle, S. 9° 00′, E. 179° 36′	29.91	759.7	83	28.3	83	e.			2		3					1	e.	d. clouds.
H. M. S. Kingfisher, S. 28° 30′, W. 138° 41′	30.15	765.8	69	20.6		ne.			5		4					5	e.	d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	30.07	763.8	59	15.0		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 22° 20′, E. 175° 00′	29.73	755.1	79	26.1	82	nw.			3		2	e.				sm'h		d. clouds.
U. S. S. Iroquois, Valparaiso, Chili	30.15	765.8	58	14.4	76	sse.			1		8					sm'h		cloudy.
U. S. S. Lackawanna, S. 30° 05′, W. 108° 50′*	29.99	761.7	67	19.4	64	sw.			6		8		sw.			sm'h	sw.	cloudy.
U. S. S. Onward. Callao Peru†	30.11	764.8	63	17.2	83	calm			0		10							misty.
U. S. S. Pensacola, Callao, Peru*	29.94	760.5	62	16.7	94	n.	1	0.4			10		n.	0	0			misty.
U. S. S. Wachusetts, S. 21° 46′, W. 167° 39′	29.98	761.5	74	23.3	81	e.			2		0					long	se.	clear.
S. S. Australia, S. 34° 50′, E. 174° 30′	29.48	748.8	74	23.3	76	w.			7		10		w.	rain	rain	long	w.	raining.
S. S. City of Sydney, Sydney, N. S. W *†	29.70	754.4	55	12.8	74	w.			2	2 c	0	w.		0	0			clear.
S. S. Zealandia, S. 13° 48′ W. 170° 48′	29.41	747.0	83	28.3	87	e.			5		2		ne.			con.		clear.
S. Storm King, S. 58° 26′, W. 73° 26′ *†	29.60	751.8				nnw.			6		9		nw.	0	0	mod.	nnw.	cloudy.
H. M. S. Lark, S. 13° 00′, E. 156° 58′	29.92	760.0	81.3	27.4	91	ese.			4		8					3	se.	d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.59	751.6	90	32.2		ssw.			1		3	sw						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.65	753.1	90	32.2	73	sw.			1		3							d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.02	762.5	78	25.6	93	sse.			2		2	sse.				1	ssw.	d. clouds.
S. S. Tourmaline, N. 15° 50′ E. 63° 00′	29.65	753.1	85	29.4	83	sw.			4		4	sw.				3	sw.	misty.
H. M S. Woodlark, Bussorah, Turkey in Asia	29.61	752.1	99	37.2		nw.			4		0							misty.
U. S. S. Enterprise, S. 32° 03′ E. 29° 09′ *	29.91	759.7	68	20.0	69	wsw.			3		5		e.			mod.	ne.	fair.
U. S. S. Juniata, Bombay, India			86	30.0	100	sw.			2		8		calm	sli't	sli't	sm'h		cloudy.
S. S. Salerno, N. 17° 56′, E. 70° 37′ †	29.87	758.7	93	33.9		wsw.			2		3		sw.	0	0	mod.	wsw.	clear.
S. Annie M Law, S. 30° 51′, E. 38° 24′ *†	30.14	765.5	72	22.2		ne.			1		5		ene.	1 h'r	1 h'r	mod	ene.	squally.
Bk. Ceylon, S. 35° 10′, E. 21° 47′*†	30.06	763.5	68	20.0	79	s.			6		4		ssw.	sq 'lls	sq 'lls	hv'y	sw.	fair.
S. Dynomene, S. 34° 50′, E. 20° 20′	30.02	762.5				ssw.			7		9			hv'y	hv'y	high	sw.	drizzling.
Bk. Pilgrim, Samarang, Java, Oceania*†	29.90	759.4				ese.			2		1		ese.	0	0			clear.
S. S. Foscolia, N. 17° 40′, E. 40° 15′ †	29.77	756.1				nnw.			5		0			0	0	high	wnw.	clear.
S. S. Gordon Castle, S. 10° 50′, E. 132° 10′*	29.91	759.7	80.0	26.7	78	ese.			2–3		3		sse.					clear.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 28, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ALGERIAN.																			
Nemours			29.99	761.8	70.2	21.2	86	s.			1		0			0	0	clear	Malaterre.
Algiers			29.97	761.1	65.5	18.6	84	ne.			2		6			inap.	inap.	cloudy	Thève.
La Galle			29.91	759.8	68.7	20.4	80	ne.			2		4			0.177	4.5	cloudy	Fonfrède.
Tunis			29.96	760.9															Jacques.
Saida			29.95	760.7															Pérès.
Tebessa			29.94	760.4	69.8	21.0	41	s.			8		4			0	0	cloudy	St. Martin.
Geriville					57.2	14.0	90	nw.			4		2			0.079	2.0	fair	Forfert.
Laghouat			29.89	759.1	72.7	22.6	34	nne.			2		1			0	0	very fair	Abraham.
Biskra			29.84	757.8	83.1	28.4	43	nw.			4		3			c	0	pretty fair	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			29.82	757.4	52.3	11.3	83	w.	8	3.6			7 k			0.591	15.0	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.56	750.8	29.65	753.1	51.5	10.8	90	e.	5	2.2			10			0.21	5.3	raining	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.54	750.2	30.07	763.7	72.5	22.5	42	sw.			5		10			inap.	inap.		Prof. Ivan Stozir.
Oracow, I. R Observatory	29.28	743.6	30.04	762.9	61.5	16.4	91	nnw.	4.9	2.2			10			0.272	6.9		Dr. Wierzbiski
Eperies	29.07	738.4	29.91	759.7	75.2	24.0	54	s.			4		10 s			inap.	inap.		Julius Mikolik.
Gratz	28.80	731.6	30.01	762.2	71.2	21.8	68	sw.			1		8			0.016	0.4		Andreas Rospini.
Hermannstadt	28.65	727.7	30.00	762.0	80.2	26.7	38	nw.			2		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.3	30.06	763.5	66.7	19.3	80	ene.			1		10			0.079	2.0	covered	The Staff.
Lemberg	28.97	735.8	29.91	759.8	73.9	23.3	59	nw.			2		10			0.236	6.0		Dr. T. Stanecki.
Neu Schmecks	26.67	677.3	29.95	760.6	62.4	16.9	83	calm			0		10			0.516	13.1		Dr. V. von Szontagh.
Pola	30.05	763.3	30.16	766.0	71.6	22.0	71	se.			2		4			0	0		I. R. Hydrographic Office.
Szathmar	29.54	750.2	29.99	761.7	81.0	27.2	41	s.			4		4			0.165	4.2		Joseph Midlinszky, S. J.
Szegedin	29.75	755.6	30.02	762.4	78.8	26.0	65	s.			3		5			0	0		Karl Stancel.
Trieste	30.05	763.2	30.15	765.7	69.4	20.8	60	nw.			1		9			0.142	3.6		Royal Academy.
Vienna	29.38	746.2	30.08	763.9	68.7	20.4	72	w.			1		9			0	0		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.61	752.1	29.70	754.4	53.4	11.9	80	s.	23	10.3			9			0.025	0.6	overcast	W. Boswell.
Armagh, Observatory	29.48	748.8	29.71	754.6	58.0	14.4	91	s.	14	6.3			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			29.90	759.4	62.4	16.9	66	s.	16	7.2			10					overcast	John Hartnup.
Bolton, Sharples	29.39	746.5	29.92	760.0	56.8	13.8	78	ssw.	18	8.0			10					gloomy	Thomas Mackereth.
Bradford, Yorkshire	29.52	749.8	29.92	760.0	59.4	15.2	65	sw.			2		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	82	27.8	75	ne.			2		8					overcast	Corpl. W. I. Cull, A. H. C.
Oardington	29.94	760.5	30.04	763.0	68.0	20.0	58	sw.			1.0		3					d. clouds	John McLaren.
Chatham, School M. E.	29.94	760.5	30.07	763.8	64.6	18.1	56	sw.			3		2					misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.81	757.2	30.04	763.0	55.1	12.8	95	s			4		10					misty	The Staff.
Fort Napier, Natal	27.53	699.2	29.75	755.6	53.5	11.9	70	s.			1		10					raining	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	83.0	28.3	79	se.			1		2					raining	Sergt. C. E. Keane.
Galway, Queen's College	29.62	752.3	29.65	753.1	57	13.9	94	w.			4		9			0.43	10.9	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	71.0	21.7	96	nw.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.51	749.5	29.72	754.9	55.1	12.8	88	s.			8		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.90	759.4	30.07	763.8	64.0	17.8	56	sw.			4		4					d. clouds	The Staff.
Guernsey	29.82	757.4	30.11	764.8	60.0	15.6	60	sse.			1		1					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.04	763.0	30.08	764.0	62.0	16.7	53	sw.	16	7.2			3					d. clouds	The Staff.
Leicester, Museum	29.74	755.4	29.99	761.7	63.0	17.2	57	sw.			2		6					d. clouds	J. C. Smith.
Malta, Mediterranean	30.00	762.0	30.08	764.0	71.4	21.9	94	se.					3					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.09	764.3	84.0	28.9	68	sw.			6		2					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.48	748.8	30.00	762.0	59.6	15.3	68	s.			7		10					overcast	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.82	757.4	30.05	763.3	62.3	16.8	59	sw.			4		5					d. clouds	The Staff.
Plymouth	29.98	761.5	30.05	763.3	58.9	14.9	78	s.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.47	748.5	29.57	751.1	53.6	12.0	90						10					showery	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.03	762.7	30.09	764.3	72.8	22.7	72	sw.			1		6					misty	W. H. Lyne.
Sheffield	29.77	756.1	29.94	760.5	65.0	18.3	63	ssw.			3		8			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.78	756.4	29.81	757.2	54.5	12.5	93	ssw.			6		10			0.335	8.5	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.92	760.0	57.4	14.1	72	ssw.	25	11.2			10					overcast	W. C. Carlisle.
Truro, Royal Institution	29.99	761.7	30.08	764.0	58	14.4	94	s.			6		10					raining	W. Newcombe.
Valencia, Observatory	29.72	754.9	29.75	755.6	54.0	12.2	93	sw.	30	13.4			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.70	754.4	30.10	764.5	74.1	23.4	49	e.	11.2	5.0		6 c		w.		0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.62	752.3	29.66	753.4	54	12.2	96	calm	0	0			10 n			0.250	6.3	light rain	H. J. Cundall, C. E
Chatham, N. B*	29.66	753.4	29.73	755.1	45	7.2	96	ne.	6	2.7			fg.			0	0	light fog	G. A. Blair.
Cornwall, Ontario	29.44	747.8	29.63	752.6	52.9	11.6	92	w.			1		10 k			0.084	2.1	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.68	753.9	29.73	755.1	42.5	5.8		calm			0		10 n			0.060	1.5	misty	H. A. Johnson.
Father Point, Quebec*	29.59	751.6	29.61	752.1	39	3.9	86	calm	0	0			fg.			inap.	inap.	foggy	J. McWilliams.
Fort Garry, Manitoba*	29.00	736.6	29.85	758.2	36	2.2	92	n.	4	1.8		5 c	0			inap.	inap.	fair	James Stewart.
Fredericton, N. B.	29.62	752.3	29.69	754.1	54.5	12.5	90	ne.	2	0.9			10 s			0.015	0.4	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.61	726.7	29.71	754.6	48.0	8.9	100	calm	0	0		9 cs	0			0	0	fine	Jas. Grant.
Halifax, N. S*	29.52	749.8	29.65	753.1	50	10.0	100	se.	6	2.7			fg			1.328	33.7	heavy rain	A. Allison.
Hamilton, Ontario	29.26	743.7	29.64	752.8	59.9	15.5	87	sw.			1	5 ck	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.34	745.2	29.67	753.6	51	10.6	90	s.	6	2.7		2 c	5 k	calm	s.	0.02	0.5	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.69	754.1	29.73	755.1	56.5	13.6	90	s.			2		10 n					raining	C. H. Rigby.
Montreal, Quebec*	29.44	747.8	29.64	752.8	54	12.2	80	w.	12	5.4			10 s		w.	0.01	0.3	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.39	746.5	29.63	752.6	54.9	12.7	91	sw.			2	0	4 ks			0.06	1.5	fair	A. McGill, M. A.
Parry Sound, Ontario*	28.95	735.3	29.65	753.1	47	8.3	93	s.	7	3.1		5 k	5 ks	sw.	sw.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	28.93	734.8	29.65	753.1	54.7	12.6		w.			2	5 k	0			0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.03	737.3	29.71	754.6	52	11.1	93	w.	9	4.0		10 c	0	w.		0	0	fair	H Morgan.
Port Stanley, Ontario	29.09	738.9	29.72	754.9	52	11.1	80	w.	8	3.6		5 k	0	w.		0.01	0.3	cloudy	M. Payne.
Quebec, Quebec*	29.28	743.7	29.63	752.6	50	10.0	90	calm	0	0		8 ck	0			0.02	0.5	fair	Capt. Ashe, R. N
Rockliffe, Ontario*	29.14	740.1	29.66	751.8	50.0	10.0	80	nw.	1	0.4		0	5 ks		sw.	inap.	inap.	fair	W. H. McIntyre.
St. Andrews, N. B	29.61	752.1	29.66	753.4	52	11.1	93	ne.	1	0.4			10 n			0.36	9.1	cloudy	
St. John, N. B	29.49	749.0	29.66	753.4	49.0	9.4	100	sw.	1	0.4			fg.			0	0	foggy	G. Murdock, C. E.
Saint John's, N. F.	29.76	755.9	30.01	762.2	58	14.4	88	w.			3		10 n			inap.	inap.	raining	J. Higgins.
St. Pierre, N. F.			29.88	758.9	47.8	8.8		sw.			1					0.08	2.0		The Commandant
Saugeen, Ontario*	28.94	735.1	29.65	753.1	47	8.3	89	sw.	3	3.1			10 ks			0.03	0.8	cloudy	
Stratford, Ontario	28.44	722.4	29.70	754.4	49.2	9.6	91	sw.	2	0.9			10 s			0.166	4.2	d. clouds	C. J. Macgregor, M A
Sydney, C. B*	29.71	754.6	29.77	756.1	55	12.8	96	s.	10	4.5			10 n			0.01	0.3	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.31	744.5	29.69	754.1	51	10.6	90	sw.	7	3.1		5 k	5 ks	w.	w.	0.04	1.0	cloudy	Magnetic Observatory.
Windsor, N. S	29.53	750.0	29.62	752.3	55.0	12.8	97	e.	4	1.8			10 n			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.67	728.2	29.71	754.6	52.3	11.3	83					7 k	0	w.		0.07	1.8	d. clouds	Prof Wolverton, M.A.
Yarmouth, N. S*	29.58	751.3	29.64	752.8	51	10.6	96	calm	0	0			fg.			0.58	14.7	foggy	Lt. F. E. Wilmot, R.N.
London, Ontario	28.83	732.3	29.72	754.9	50.7	10.4	85	s.			1		10 n			0.50	12.7	overcast	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CAPE COLONY.																			
Cape St. Francis Lt. House	30.14	765.5	30.17	766.3	64.0	17.8	88	sw.	21.1	9.4		0	9 ks			0.450	11.4	hazy	John Duthie
Springbok Fontein	28.00	711.2			54	12.2	61	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.01	635.3																	A. Gueluy.
Tchang-kia-tchouang	29.65	753.0	29.76	755.8	78.8	26.0	40	calm			0		0			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.92	760.0	29.95	760.6	62.6	17.0	86	se.	4.5	2.0			3			0	0	fair	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.04	763.1	30.09	764.3	59.2	15.1	56	nw.	16	7			0						Oversergent Fischer.
Fanoe	30.15	765.7	30.13	765.2	54.9	12.7	61	sw.			2		1						Overloerer Lauridsen.
Godthaab, Greenland	29.62	752.4	29.67	753.5	33.8	1.0	85	nne.			4		0						S. Kleinschmidt.
Jacobshavn, Greenland	29.61	752.2	29.66	753.4	28.8	– 1.8		calm			0		7						
Stykkisholm, Iceland	29.37	746.0	29.41	747.1	37.8	3.2	75	ne.			4		0						A. O. Thorlacius.
Thorshavn	29.23	742.5	29.26	743.1	52.0	11.1	95	s.	27	12			10					raining	Overloerer Bergh.
Vestervig	30.04	763.1	30.13	765.4	54.5	12.5	57	wsw.			4		1						Loerer Oesterbøl.
EGYPTIAN.																			
Cairo	29.90	759.4			83.1	28.4		e.	3.4	1.5		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.48	748.9	30.12	765.1	65.5	18.6	60	nnw.			1	2 c	0			0.008	0.2	clear	M. Labroue, Director.
Alençon, Normal School	29.60	751.8	30.15	765.8	66.2	19	57	ene.			1	0	2 n			0	0	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School	29.82	757.3	30.07	763.8	62.2	16.8	75	sw.			3		kn		e.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.99	761.7	30.07	763.7	72.3	22.4	62	se.			1		8		e.	0	0	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.57	751.0	30.11	764.7	70.5	21.4	49	ese.			1	0	5 kn		se.	0.016	0.4	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.87	758.8	30.13	765.4	69.1	20.6	59	w.			1		8		wsw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.18	741.1	30.04	763.1	70.0	21.1	56	e.			2		kn		e.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.86	758.5	30.12	765.0	66.4	19.1	54	nne.			1		8		ne.	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.56	750.7	30.09	764.3	69.8	21	45	n.			2		k		n.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.89	759.3	30.14	765.5	65.8	18.8	66	sw.			2		5		sw.	0	0		M. de Kermarrec, Dir.
Caen, Normal School	30.03	762.7	30.10	764.5	60.4	15.8	91	ssw.			2		5		ssw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch	29.76	755.9	30.08	763.9	70.3	21.3	65	ssw.			1		2			0.008	0.2	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.63	752.7	30.13	765.4	69.1	20.6	19	e.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.75	730.2	30.06	763.4	73.0	22.8	63	ne.			1	0	5 k			0.059	1.5	½ covered	M. Alluard, Director.
Cluny, Normal School	29.26	743.2	30.18	766.6	73.8	23.2	45	ne.			1		3		ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.27	743.5	30.11	764.8	66.9	19.4	50	ne			1		k	ne.	ne.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.59	700.9	30.09	764.3	59.0	15	32	calm			0	0	9 n			0.126	3.2		M. Jeangirard, Director.
Grénoble, du Rhone	28.98	736.0	30.10	764.5	61.5	16.4	87	se.			1		10		se	0.213	5.4	rainy	M. Kina, Director.
Grenoble. Normal School	29.31	744.4	30.06	763.5	69.8	21	73	sse.			1	cs	0			0.173	4.4		M. Ablard, Director.
Guéret, Normal School	28.54	724.9	30.08	764.0	67.6	19.8	49	ne.			1	2 ck	0			0	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.99	761.8	30.26	766.6	67.1	19.5	52	nw.			2		10		nw.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.54	750.3	30.10	764.5	63.3	17.4	63	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.04	763.1	30.15	765.7	63.0	17.2	52	sw.			2		2	n.	sw.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.04	737.7	30.08	764.0	67.8	19.9	46	nne.			1		8			0	0	very cloudy	M. André, Director.
Mans, Normal School	29.82	757.3	30.12	765.0	67.1	19.5	69	e.			1		8		sw.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.80	757.0	30.07	763.8	68.9	20.5	78	e.			0.1		10		e.	0.024	0.6		M. Stephan, Director.
Montlouis	24.90	632.4	29.74	755.4	62.2	16.8	67	e.	15.0	6.7			6	ne.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.91	759.8	30.04	763.1	66.9	19.4	85	se.			3		10		se.	0.516	13.1	covered	M. Galzin, Director.
Nancy, Normal School	29.39	746.4	30.15	765.8	69.1	20.6	51	nw.			1		k			0	0		M. Hasse, Director.
Nantes, Observatory	29.98	761.5	30.14	765.6	70.5	21.4	47	wnw.			0–2	0	7 k; kn		se.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.96	761.0	30.07	763.8	71.2	21.8	45	n.	5.6	2.5			4	s.	nne.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.28	540.6			36.7	2.6		s.			2				s.	0	0		M. Vaussenat, Director.
Privas, Normal School	29.08	738.6	30.06	763.5	68.7	20.4	78	se.			1		5 n	ne.	ne.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.28	642.0			48.6	9.2	87	e.			2	0	5 k		e.	0.008	0.2	½ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.09	764.3	30.12	765.1	72.7	22.6	56	wnw.			1		2		nw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.90	759.4	30.11	764.7	68.4	20.2	61	nw.			1		5	n.	sw.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.01	711.4	30.11	764.9	63.9	17.7	71	sw.			1		k		sw.	0	0		M. Seger, Director.
Rouen, Normal School	30.00	762.0	30.05	763.2	69.4	20.8	46	sw.			1		2	w.		0.16	4.	slightly cl'dy	M. Mouillot, Dir.
Saint Maur, Observatory	29.97	761.1	30.13	765.2	70.5	21.4	46	calm			0		7		nw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.44	747.8	30.17	766.2	68.5	20.3	65	nnw.			1		2	nw.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.93	760.3	30.11	764.8	70.9	21.6	45	w.			1		2		wnw.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.64	752.8	30.13	765.2	67.6	19.8	55	w.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.00	761.9	30.15	765.7	65.3	18.5	65	se.	4.0	1.8		0	8 k		e.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.71	729.2	30.13	765.2	65.7	18.7	54	ne.			2		2	ne.		0	0		Prof. Jnedt.
Bamberg	29.24	742.7	30.09	764.2	67.6	19.8	60	e.			2	0	2 ks			0	0		Prof. Dr. Hoh.
Berlin	30.01	762.2	30.15	765.8	63.3	17.4	38	ne.			1		0			0.039	1.0		Meteorological Institute
Breslau	29.60	751.9	30.13	765.4	64.6	18.1	64	wnw.			2		10			0.091	2.3		Royal University Obs'y
Carlsruhe	29.68	753.8	30.13	765.2	67.6	19.8	50	ne.			1		0			0	0		Albert Senz.
Cassel	29.41	747.0	30.12	765.1	66.6	19.2	47	nw.			2		4	nw.		0.122	3.1		Dr. H. Möhl.
Frankfort-on-the-Main			30.14	765.5	64.6	18.1	57	nw.			1		1			0	0		Physical Society.
Friedrichshafen	28.69	728.6	30.07	763.8	65.1	18.4	85	nne.			3		10	e.		0	0	hazy	Wilhelm, Chief Tel.
Hamburg	30.14	765.5	30.23	767.8	58.3	14.6	55	wnw.			2		0			0.047	1.2		E. Preller.
Kiel	30.14	765.6	30.16	766.0	57.2	14.0	51	nne.			2		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.75	755.7	30.17	766.3	61.5	16.4	52	nw.			2		4	wnw.		0	0		H. Leppig, Asst.
Magdeburg	29.98	761.4	30.17	766.2	62.4	16.9	42	nw.			1		0			0.004	0.1		Dr. Assmann.
Memel	29.95	760.6	29.99	761.8	53.4	11.9	74	w.			4		10 ks						Issermann.
Munich	28.30	718.7	30.17	766.2	62.1	16.7	75	ne.			2		8	e.		0.319	8.1		Central Station.
Neufahrwasser	30.03	762.8	30.05	763.2	63.7	17.6	39	w.			3		1			0	0		A. Lothes.
Neustadt, Palatinate	29.57	751.0	30.10	764.5	69.1	20.6	50	ne.			2		0			0	0		Dicknether.
Stuttgart	29.17	741.0	30.05	763.3	65.7	18.7	58	n.			1		3	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.16	766.0	30.18	766.6	54.9	12.7	70	wnw.			5		0			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.75	755.6	30.11	764.9	81.1	27.3		s.			1.5		1			0	0	hazy	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.42	747.3	29.47	748.5	94.0	34.4	68	wsw.	26.0	11.6			8			0	0	d. clouds	
Deesa	29.04	737.5	29.49	749.2	93.1	33.9	38	sse.	13.0	5.8			10	sse.	sse.	0.28	7.1	overcast	
Bombay	29.65	753.2	29.69	754.1	86.7	30.4	75	sw.	14.0	6.3			5		w.	0.07	1.8		
Poona, Yarrowda	27.85	707.3	29.66	753.4	86.7	30.4	48	wsw.	26.0	11.6			7			0	0	d. clouds	
Trichinopoly	29.44	747.8	29.72	754.8	91.1	32.8	64	nw.	2.0	0.9			8	ne.	ne.	0	0	d. clouds	
Belgaum	27.18	690.3	29.67	753.5	83.0	28.3	51	e.	12.0	5.4			7	w.		0	0	d. clouds	
Lahore	28.93	734.9	29.67	753.5	79.9	26.6	62	nw.	6.0	2.7			0			0	0	blue sky	
Roorkee	28.77	730.7	29.68	753.8	73.2	22.9	67	e.	7.0	3.1			10	e.		0.50	12.7		
Agra	29.09	738.8	29.65	753.1	81.2	27.3	60	ne.	8.0	3.6			7		ne.	0	0	d. clouds	
Nagpur	28.49	723.6	29.48	748.8	102.7	39.3	21	w.	15.0	6.7			6		w.	0.07	1.8	d. clouds	
Jubbulpore	28.26	717.9	29.59	751.7	85.4	29.7	47	sw.	8.0	3.6			6		w.	0.14	3.6	d. clouds	
Lucknow	29.25	742.9	29.62	752.4	83.0	28.3	69	ene.	3.0	1.3			9	w.		0	0	d. clouds	
Allahabad	29.28	743.8	29.59	751.6	84.7	29.3	71	ne.	4.0	1.8			3			0.13	3.3	d. clouds	
Patna	29.41	747.0	29.59	751.6	92.2	33.4	50	ene.	6.3	2.8			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.62	701.6	29.60	751.9	82.5	28.1	61	e.	8.5	3.8			4			0.15	3.8	thund'r st'm	
Cuttack	29.51	749.4	29.59	751.5	89.8	32.1	65	wnw.	8.0	3.6			0			0.07	1.8	blue sky	
Calcutta, Alipore	29.58	751.2	29.60	751.8	79.0	26.1	91	ese.	3.0	1.3			10		w.	0.25	6.4	overcast	
Dhubri	29.49	749.0	29.61	752.0	86.7	30.4	75	calm	0	0			0			0.03	0.8	blue sky	
Chittagong	29.58	751.4	29.67	753.6	82.7	28.2	84	wsw.	2.1	0.9			9			0	0	d. clouds	
Sibsagar	29.28	743.8	29.61	752.1	88.3	31.3	70	sw.	2.0	0.9			8	e.	e.	0	0	d. clouds	
Jeypore	28.22	716.7	29.68	753.9	68.7	20.4	86	ne.	20.0	8.9			8		ne.	0.02	0.5	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.18	715.8	.....	.....	99.0	37.2	21	w.	8	3.6	.....	4 ck	3	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.94	760.5	83.0	28.3	63	sse.	5.1	2.3	.....	.....	7	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.76	756.0	30.17	766.2	65.1	18.4	67	e.	0.7	0.3	.....	.....	10	.....	.....	0.075	1.9	.....	Prof. Giovanni Clodig.
Milan	29.66	753.4	30.17	766.3	63.0	17.2	82	se.	1.8	0.8	.....	.....	10	sw.	.....	0.287	7.3	.....	Prof. G. V. Schiapparelli.
Padua	30.06	763.5	30.17	766.2	68.4	20.2	64	w.	0.7	0.3	.....	.....	10	.....	.....	0.217	5.5	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.25	743.0	30.14	765.6	62.6	17.0	86	nw.	1.3	0.6	.....	.....	10	n.	.....	0.244	6.2	.....	Prof. F. F. Denza.
Genoa	29.95	760.8	30.15	765.7	59.9	15.5	80	n.	3.8	1.7	.....	.....	10	se.	.....	0.724	18.4	.....	Prof. G. M. Garibaldi.
Mondovi	28.26	717.7	30.14	765.5	60.8	16.0	64	wnw.	.....	.....	4	.....	10	.....	.....	0.358	9.1	.....	Prof. D. C. Bruno.
Pesaro	30.09	764.3	30.14	765.5	65.7	18.7	85	se.	3.8	1.7	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.91	759.8	30.17	766.2	65.8	18.8	74	s.	.....	.....	2	.....	10	.....	.....	0.008	0.2	.....	Prof. Costantino Pittei.
Leghorn	29.99	761.8	30.08	763.9	65.3	18.5	65	ene.	8.1	3.6	.....	.....	10	.....	.....	0.303	7.7	.....	Prof. P. Monte.
Rome	29.96	761.0	30.13	765.3	76.5	24.7	34	s.	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.87	758.8	30.13	765.2	77.4	25.2	35	w.	7.4	3.3	.....	.....	3	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.22	742.1	30.08	764.0	81.0	27.2	70	ssw.	3.1	1.4	.....	.....	5	sw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.80	756.9	29.99	761.7	75.2	24.0	57	se.	.....	.....	2	.....	10	.....	.....	0.031	0.8	.....	Prof. A. Pacinotti.
Palermo	29.84	757.8	30.08	764.1	81.1	27.3	32	ne.	8.7	3.9	.....	.....	9	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.08	764.0	30.12	765.1	72.9	22.7	65	e.	3.1	1.4	.....	.....	8	wsw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.60	751.8	30.11	764.7	78.8	26.0	48	ne.	0	0	.....	.....	9	sw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.32	566.9	.....	.....	41.5	5.3	89	w.	.....	.....	2	.....	10	.....	.....	0.106	2.7	covered	Prof. P. F. Denza.
Valdobbia	22.32	567.0	.....	.....	46.4	8.0	74	e	.....	.....	1	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.69	754.1	29.72	755.0	56.0	13.3	93	sw.	.....	.....	2	.....	10 ck	.....	sw.	0.063	1.6	cloudy	H. Hattori.
Awomori	29.62	752.3	29.65	753.1	54.0	12.2	86	w.	8.9	4.0	.....	.....	10 ks	.....	.....	0.003	0.1	overcast	K. Ogawa.
Hamamatsu	29.75	755.6	29.78	756.3	63.0	17.2	78	wnw.	.....	.....	4	0	0	.....	.....	0	0	clear	
Kagoshima	29.94	760.3	29.95	760.6	63.0	17.2	82	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohaza.
Kioto	29.66	753.4	29.83	757.8	61.4	16.3	76	ne.	0.9	0.4	.....	0	1 s	.....	.....	0	0	clear	M. Tojima.
Miasaka	29.88	758.9	29.91	759.6	66.2	19.0	64	wnw.	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masusaki.
Miyako	29.56	750.9	29.67	753.7	57.6	14.2	71	w.	0.4	0.2	.....	8 ck	0	.....	.....	0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.72	754.9	29.92	759.9	63.9	17.7	77	sw.	2.4	1.1	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	29.75	755.6	29.78	756.4	57.3	14.1	90	s.	6.7	2.9	.....	0	5 ck;s	.....	w.	0.030	0.8	fair	M. Morita.
Nobiru	29.71	754.5	29.72	754.9	57.9	14.4	77	nnw.	2.3	1.0	.....	0	2 s	.....	.....	0	0	fair	H. Midzushima.
Numazu	29.74	755.3	29.77	756.2	59.3	15.2	84	calm	.....	.....	0	0	1 ks	.....	.....	0	0	clear	R. Kaneda.
Osaka	29.80	756.9	29.81	757.3	63.5	17.5	74	w.	3.3	1.4	.....	0	8 s	.....	.....	0	0	cloudy	H. Omura.
Tokei Obs'y, Yeddo	29.67	753.6	29.74	755.4	61.6	16.4	86	s.	4.4	2.0	.....	0	1 ck;s	.....	sw.	0	0	clear	The Staff.
Wakayama	29.77	756.1	29.82	757.4	62.8	17.1	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.05	763.3	76.0	24.4	71	ene.	10.5	4.7	.....	1 cs	2 k	.....	e.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.70	602.1	29.92	760.1	59.4	15.2	92	ne.	inap.	inap.	.....	3 ck	4 k	sw.	sw.	0.632	16.1	fair	Prof. Vicente Fernandez.
Leon	24.34	618.2	30.03	762.7	57.2	14.0	97	wsw.	2.0	0.9	.....	.....	10 ck	.....	sw.	inap.	inap.	foggy	Prof. M. Leal.
Mazatlan	29.71	754.6	29.97	761.2	75.0	23.9	95	wnw.	0	0	.....	0	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	72	22.2	90	se.	8.4	3.8	.....	0	3 k	.....	var.	0.05	1.3	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.12	765.1	30.12	765.1	66.9	19.4	.....	ese.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Groningen	30.11	764.7	30.16	766.1	60.1	15.6	.....	s.	.....	.....	1	.....	.....	.....	.....	0.055	1.4	.....	
Helder	30.13	765.2	30.13	765.2	58.3	14.6	.....	wsw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.13	765.3	30.13	765.3	67.8	19.9	51	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	
Utrecht	30.11	764.9	30.16	766.1	66.2	19.0	50	sse.	.....	.....	3	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.6	.....	.....	80.2	26.8	81	ne.	0.5	0.2	.....	.....	1	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.84	758.0	29.91	759.6	57.2	14.0	49	s.	29	13	.....	.....	6	.....	.....	0	0	.....	
Brono	29.91	759.6	29.95	760.6	56.1	13.4	47	nw.	.....	.....	4	.....	2	.....	.....	0.913	23.2	.....	
Christiania	29.85	758.3	30.00	762.0	60.4	15.8	44	s.	7	3	.....	.....	1	.....	.....	0	0	.....	
Gjæsvær	29.67	753.7	29.70	754.3	42.1	5.6	.....	w.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.87	758.6	29.91	759.8	46.9	8.3	83	sw.	.....	.....	4	.....	3	.....	.....	0.020	0.5	.....	
PORTUGUESE.																			
Angra, Azores	30.05	763.2	30.21	767.2	61.5	16.4	75	nne.	17.4	7.8	.....	.....	7	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.03	737.3	29.99	761.8	76.8	24.9	40	ene.	0.7	0.3	.....	.....	3	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.09	764.2	30.17	766.4	66.7	19.3	61	ssw.	1.8	0.8	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.72	754.8	30.05	763.2	69.6	20.9	57	n.	6.9	3.1	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.15	765.9	30.22	767.7	67.3	19.6	70	w.	4.9	2.2	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.74	755.5	29.95	760.6	77.0	25.0	83	nw.	0.7	0.3	.....	.....	4	ese.	.....	0	0	.....	
Serra da Estrella	25.35	643.9	30.04	763.0	53.4	11.9	72	ne.	4.3	1.9	.....	.....	9	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.02	737.2	30.08	764.1	61.2	16.2	21	ene.	7	3	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.81	757.2	29.83	757.7	69.4	20.8	60	ese.	9	4	.....	0	8 ks	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	29.90	759.4	29.80	757.0	80.6	27.0	70	wnw.	18	8	.....	0	1 k	.....	.....	0	0	.....	
Astrakhan	29.98	761.6	29.90	759.5	74.1	23.4	63	wnw.	9	4	.....	.....	10 ks	.....	.....	0.016	0.4	.....	Capt. Wisganow.
Baku	29.94	760.5	29.89	759.3	69.1	20.6	74	nnw.	18	8	.....	0	2 ks	.....	.....	0	0	.....	
Barnaul	29.03	752.7	30.13	765.4	55.8	13.2	26	w.	9	4	.....	.....	5	.....	.....	0	0	light clouds	Meteorological Obs'y
Bielosersk	29.26	743.1	29.71	754.7	57.0	13.9	78	wnw.	2	1	.....	0	8 ks	.....	.....	0.138	3.5	.....	
Dorpat	29.53	750.1	29.77	756.2	54.3	12.4	99	wsw.	4	2	.....	.....	10 n	.....	.....	0.433	11.0	.....	Observatory.
Ekaterinburg	29.13	739.9	30.04	763.1	78.3	25.7	40	s.	4	2	.....	8 ck	0	.....	.....	0	0	hazy	Meteorological Obs'y
Elissawetgrad	29.61	752.1	30.04	763.0	76.3	24.6	41	sw.	7	3	.....	0	6 ks	.....	.....	0	0	.....	
Irkutsk	28.34	719.8	29.97	761.2	52.0	11.1	45	nnw.	.....	.....	1	.....	7	.....	.....	blank	blank	.....	
Kasalinsk	29.32	744.7	29.50	749.2	77.4	25.2	27	n.	4	2	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.72	754.8	29.98	761.4	71.6	22.0	50	wnw.	7	3	.....	.....	10	.....	.....	0.004	0.1	.....	Observatory.
Kem	29.67	753.7	29.72	755.0	64.9	18.3	52	e.	18	8	.....	0	2 ks	.....	.....	0	0	.....	
Kertch	30.08	763.9	30.10	764.5	68.2	20.1	73	calm	0	0	.....	0	4k	.....	.....	0	0	.....	Lagorio & Snatyrea.
Kieff	29.37	746.0	29.98	761.4	72.9	22.7	43	se	4	2	.....	c;ck	3 k	.....	.....	0.386	9.8	.....	Observatory.
Koslov	29.42	747.3	29.94	760.5	69.1	20.6	55	nnw.	4	2	.....	0	5 k	.....	.....	0	0	.....	
Liban	29.93	760.2	29.95	760.8	46.2	7.9	88	nw.	11	5	.....	.....	10	.....	.....	0.311	7.9	.....	E. Quaas.
Lugan	29.78	756.3	29.96	760.9	71.8	22.1	36	wsw.	18	8	.....	.....	7	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.38	746.3	29.84	758.0	62.8	17.1	63	nw.	6.7	3.0	.....	0	7 ks	.....	.....	0.169	4.3	.....	Meteorological Obs'y
Nikolaiev	30.01	762.2	30.08	764.1	77.2	25.1	64	sw.	13	6	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.82	757.4	29.91	759.6	37.4	3.0	83	calm	0	0	.....	.....	10	.....	.....	0.079	2.0	.....	Iwanow.
Pekin, China	29.58	751.2	29.72	754.8	75.6	24.2	50	calm	0	0	.....	3 cs	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.46	748.2	29.78	756.5	94.6	34.8	19	calm	0	0	.....	0	5 k	.....	.....	0	0	.....	
Petrozavodsk	29.51	749.6	29.71	754.5	60.3	15.7	70	ese.	11	5	.....	3 ck	0	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.47	748.4	29.95	760.6	72.1	22.3	62	nnw.	13	6	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.06	763.5	30.09	764.3	71.6	22.0	86	wnw.	4	2	.....	0	2 ks	.....	.....	0	0	.....	
St. Petersburg	29.72	755.0	29.75	755.6	60.4	15.8	75	nw.	9	4	.....	0	8 kn	.....	.....	0.075	1.9	.....	Central Physical Obs'y.
Samarkand	27.41	696.3	29.72	754.9	85.1	29.5	34	calm	0	0	.....	0	5 k	.....	.....	0	0	.....	
Semipalatinsk	29.49	749.1	30.14	765.6	61.3	16.3	35	n.	11	5	.....	.....	0	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.91	759.7	30.13	765.4	67.6	19.8	70	nw.	11	5	.....	0	1 ks	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.55	750.6	30.00	762.0	62.6	17.0	76	se.	9	4			10					light rain	
Tashkend	28.15	714.9	29.74	755.3	73.8	23.2	46	nw.	16	7			9 kn			0	0		Terch, A. M.
Tiflis	28.58	725.9	29.95	760.6	72.1	22.3	45	nnw.	38	17		0	4 k			0.067	1.7		Physical Observatory.
Vernoe	27.37	695.2	29.77	756.2	70.9	21.6	34	w.	2	1		3 ck	0			0.012	0.3		
Viatka	29.33	744.9	29.94	760.5	65.5	18.6	60	s.	7	3			10			0.157	4.0		
Warsaw	29.60	751.8	30.01	762.3	64.0	17.8	81	nw.	7	3			10 k			0.075	1.9	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.72	754.9	30.02	762.4	35.1	1.7	80	w.	4	2			10			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.50	749.3	53	11.7	93	ssw.			6	5	3	s.		0.7	18.	cloudy	J. Youngclause.
North Unst			29.58	751.3				s.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.98	761.4	30.08	764.0	68.0	20.0	61	e.	1.3	0.6			10			0.039	1.0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.06	763.6	30.12	765.1	69.4	20.8	60	nw.	2.7	1.2		2	3	se.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.14	689 3	30.07	763.7	61.3	16.3	57	n	6.3	2.8		0	2			0	0		Domingo Martin.
Madrid, Royal Obs'y	27.84	707.0	30.00	762.0	70.5	21.4	57	sw.	3.8	1.7		0	5			0.173	4.4	cloudy	The Staff.
Murcia, Met. Obs'y	29.87	758.6	29.98	761.4	67.5	19.7	80	ene.	4.7	2.1		2	7	sw.		0.012	0.3	misty	Olayo Diaz, Director.
Oviedo	29.28	743.8	30.17	766.3	57.2	14.0	66	n.	5.6	2.5		6 kn	2 k	n.	n.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.14	740.1	30.01	762.3	66.9	19.4	57	ne.	17.4	7.8			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	762 0	30.07	763.7	78.0	25.6	80	ene.	2.2	1.0		2 cs	0	w.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	757.0	29.86	758.4	83.5	28.6	78	ese.	19.7	8.8		0	4 ks			0.039	1.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.5	30.08	764.0	66.9	19.4	68	s.	10.1	4.5		0	3		se.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.4	30.11	764.7	82.4	28.0	83	calm	0	0		0	1 k		se.	0	0	clear	Enrique Gaden, Chf Eng'r
SWEDISH.																			
Haparanda	29.76	755.9	29.80	756.9	57.2	14.0	71	n.			6		10			0	0		
Umea	29.80	756.9	29.85	758.2	62.6	17.0	34	n.			7		1			0	0		
Hernosand	29.85	758.1	29.90	759.4	63.7	17.6	41	n.			6		1			0	0		
Stockholm	29:80	756.8	29.97	761.3	59.0	15.0	37	n.			4		9			0.059	1.5		
Wisby	29.88	758.9	29.94	760.4	47.8	8.8	81	nw			2		5			0.098	2.5		
Sub-series.																			
Upsala	29.84	758.0	29.93	760.2	60.6	15.9	40	nnw.	10.3	4.6			2	w.	nw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.69	728.6	30.08	764.1	65.1	18.4	64	n.			3		5			0.063	1.6	cloudy	The Observatory.
TURKISH.																			
Constantinople			30.14	765.6	75.2	24.0	54	s.	6	2.5			3		n.	0	0		The Observatory.
Valona			30.25	768.3	80.2	26.8		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.5	73.9	23.3	63	w.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.90	683.2			76	24.4	54					3 k		ne.		0.7	18.	clear	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.64	752.8	29.72	754.9	60.5	15.8	65	w.	3	1.3		1 k	7 ks	w.	w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.01	736.8	29.67	753.6	50	10.0	77	w.	4	1.8		0	0			inap.	inap.	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.02	635.5	29.84	757.9	43	6.1	58	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	29.98	761.5	45	7.2	86	nw.	12	5.4			10 s		nw.	0.05	1.3	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.89	733.8	30.06	763.5	63.5	17.5	75	sw.	4	1.8		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	29.80	756.9	29.80	756.9	64	17.8	58	w.	6	2.7		0	0			0.05	1.3	clear	Jas. M. Watson.
Augusta, Georgia	29.89	759.2	30.08	764.0	62.2	16.8	77	nw.	1	0.4		1 c	0	nw.		0	0	clear	John Healy.
Baltimore, Maryland	29.83	757.7	29.88	758.9	65	18.3	48	w.	8	3.6		0	0			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.77	756.1	29.79	756.7	64.5	18.1	68	nw.	15	6.7		1 k	0			0.01	0.3	clear	G. A. Hill.
Behring Id., Behring Sea	29.75	755.6	29.77	756.1	37.6	3.1		e.	3	1.3			fg.			0	0	light fog	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.19	716.0	29.75	755.6	53.0	11.7	80	n.	2	0.9		5 k	5 s	nw.	nw.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.16	689.9	29.95	760.7	46	7.8	100	sw.	6	2.7			10 n		sw.	1.25	31.7	heavy rain	S. Wheaton.
Billings, Montana	26.71	678.4	29.89	759.2	42	5.6	100	n.	12	5.4			10 n			0.24	6.1	light rain	T. Gibson.
Bismarck, Dakota	28.03	711.9	29.82	757.4	45	7.2	76	e.	2	0.9		1 c	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.70	754.4	29.73	755 1	53	11.7	100	sw.	8	3.6		3 c	fg.	sw.		0.21	5.3	clear	J. T. Elker.
Boise City, Idaho	27.31	693.7	30.15	765.8	51	10.6	74	w.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.53	750.0	29.69	754.1	67.0	19.4	68	w.	2	0.9		1 c	2 s;hz			0.01	0.3	clear	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.93	760.2	72.3	22.4	98	calm	0	0		3 c	4 s	w.		0	0	fair	M. McCarty.
Buffalo, New York	28.97	735.8	29.71	754.6	51	10.6	85	sw.	23	10.3		6 cs	2 ks	sw.	sw.	0.10	2.5	cloudy	W. Finn.
Buford, Fort, Dakota	27.87	707.9	29.85	758.2	48	8.9	80	ne.	2	0.9		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.39	746.5	29.68	753.9	54.0	12.2	80	w.	3	1.3			10 s		s.	0	0	cloudy	D. N. Farnell.
Cairo, Illinois	29.50	749.3	29.90	759.4	61.6	16.4	80	sw.	4	1.8		5 cs	0	w.		0.05	1.3	fair	W. H. Ray.
Cape Henry, Virginia	29.88	758.9	29.90	759.4	64	17.8	84	w.	4	1.8		0	0			0.12	3.0	clear	A. K. Alderson.
Cape May, New Jersey	29.81	757.2	29.84	757.9	61.0	16.1	78	w.	15	6.7		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.17	740.9	29.85	758.2	49	9.4	93	n.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	73	22.8	59	n.	5	2.2		2 ck	0	w.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.97	761.2	30.02	762.5	66.0	18.9	58	nw.	7	3.1		5 c	hz.	w.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.16	740.7	30.00	762.0	60.0	15.6	65	nw.	1	0.4		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.21	741.9	30.02	762.5	59.0	15.0	87	sw.	2	0.9		0	fg.			0.14	3.6	clear	B. L. Goulding.
Cheyenne, Wyoming	23.92	607.6	29.79	756.7	38.2	3.4	82	n.	12	5.4			10 s		n.	0.06	1.5	cloudy	E. McGovern.
Chicago, Illinois	29.07	738.4	29.77	756.1	53.0	11.7	79	sw.	7	3.1			10 s			0	0	cloudy	John Laurens.
Chincoteague, Virginia	29.85	758.2	29.87	758.7	62	16.7	46	nw.	12	5.4		3 c	0			inap.	inap.	clear	C. F. Dickens.
Cincinnati, Ohio	29.24	742.7	29.89	759.2	61.0	16.1	75	sw	2	0.9		6 ck	0	w.		0.36	9.1	fair	L. Dunne.
Cleveland, Ohio	29.05	737.9	29.78	756.4	55	12.8	73	w.	7	3.1		3 c	0	w.		0.18	4.6	clear	J. B. Newlin.
Coleman City, Texas	28.07	713.0	29.86	758 4	58	14.4	77	s.	4	1.8		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.01	736.8	29.85	758.2	53	11.7	80	s.	5	2.2		3 ck	0	w.		0.53	13.5	clear	D. Cuthbertson.
Concho, Fort, Texas	27.91	708.9	29.81	757.2	65.4	18.6	65	s.	20	8.9		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.12	739.6	29.76	755.9	56	13.3	86	sw.	4	1.8			10 n		sw.	0.15	3.8	light rain	R. R. Martin.
Davis, Fort, Texas	25.13	638.3	29.85	758.2	63	17.2	52	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.36	720.3	30.11	764.8	47	8.3	68	sw.	1	0.4		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.19	639.8	29.71	754.6	43	6.1	71	nw.	2	0.9		0	0			0.08	2.0	clear	F. Willson.
Delaware Breakwater, Del.	29.83	757.7	29.85	758.2	61	16.1	78	w.	11	4.9		0	0			0	0	clear	T. S. Townsend.
Denver, Colorado	24.60	624.8	29.76	755.9	49.0	9.4	71	sw.	9	4.0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.84	732.5	29.73	755.1	55	12.8	93	se.	4	1.8			10 n		se.	0.67	17.0	light rain	F. W. Conrad.
Detroit, Michigan	29.04	737.6	29.74	755.4	54.0	12.2	74	w.	6	2.7		0	0			0.10	2.5	clear	E. R. Brace.
Dodge City, Kansas	27.14	689.3	29.69	754.1	52	11.1	86	ne.	6	2.7		3 cs	0	w.		0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.04	737.6	29.74	755.4	53.3	11.8	80	calm	0	0			10 s		s.	0.22	5.6	threatening	J. Harvey Smith.
Duluth, Minnesota	28.97	735.8	29.72	754.9	49	9.4	63	nw.	18	8.0		0	2 k		nw.	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.92	760.0	72.3	22.4	53	se.	4	1.8		4 cs	0	sw.		0	0	fair	F. Belford.
Eagle Rock, Idaho	25.22	640.6	29.90	759.4	39	3.9	76	s.	2	0.9		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	29.60	751.8	29.67	753.6	49.0	9 4	96	calm	0	0			fg.			0.75	19.0	dense fog	D. O. Murphy.
Elliott, Fort, Texas	27.06	687.3	29.76	755.9	50	10.0	74	se.	12	5.4		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.18	665.0	29.82	757.4	69.0	20.6	40	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.05	737.9	29.77	756.1	55	12.8	80	sw.	7	3.1		4 cs	4 s	sw.	sw.	0.04	1.0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.00	736.6	29.66	753.4	48.0	8.9	77	nw.	7	3.1		3 ck	2 k;s	sw.	sw.	0.02	0.5	fair	George Heathcote.
Galveston, Texas	29.95	760.7	29.99	761.7	72	22.2	71	s.	6	2.7		8 cs	0	w.		0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.07	738.4	29.73	755.1	53.0	11.7	80	sw.	12	5.4		2 c	0			0.02	0.5	clear	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	29.84	757.9	64.9	18.3	32	n.	7	3.1		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.91	759.7	29.93	760.2	68	20.0	61	nw.	10	4.5		hz.	0			2.02	51.3	clear	R. M. Crawford.
Helena, Montana	25.68	652.3	29.85	758.2	44	6.7	68	sw.	8	3.6			10 n		calm	0.20	5.1	light rain	N. C. Smith.
Huron, Dakota	28.39	721.1	29.74	755.4	53.1	11.7	77	ne.	14	6.3		1 k	0	n.		0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.03	737.1	29.82	757.4	56.0	13.3	74	sw.	3	1.3			10 s			0.18	4.6	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.92	760.0	29.95	760.7	72.1	22.3	84	se.	7	3.1		5 cs	2 ks	w.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.62	726.9	29.77	756.1	69	20.6	57	se.	13	5.8		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	30.04	763.0	30.08	764.0	72.5	22.5	53	calm	0	0		5 cs	0	w.		0	0	fair	J. W. Smith.

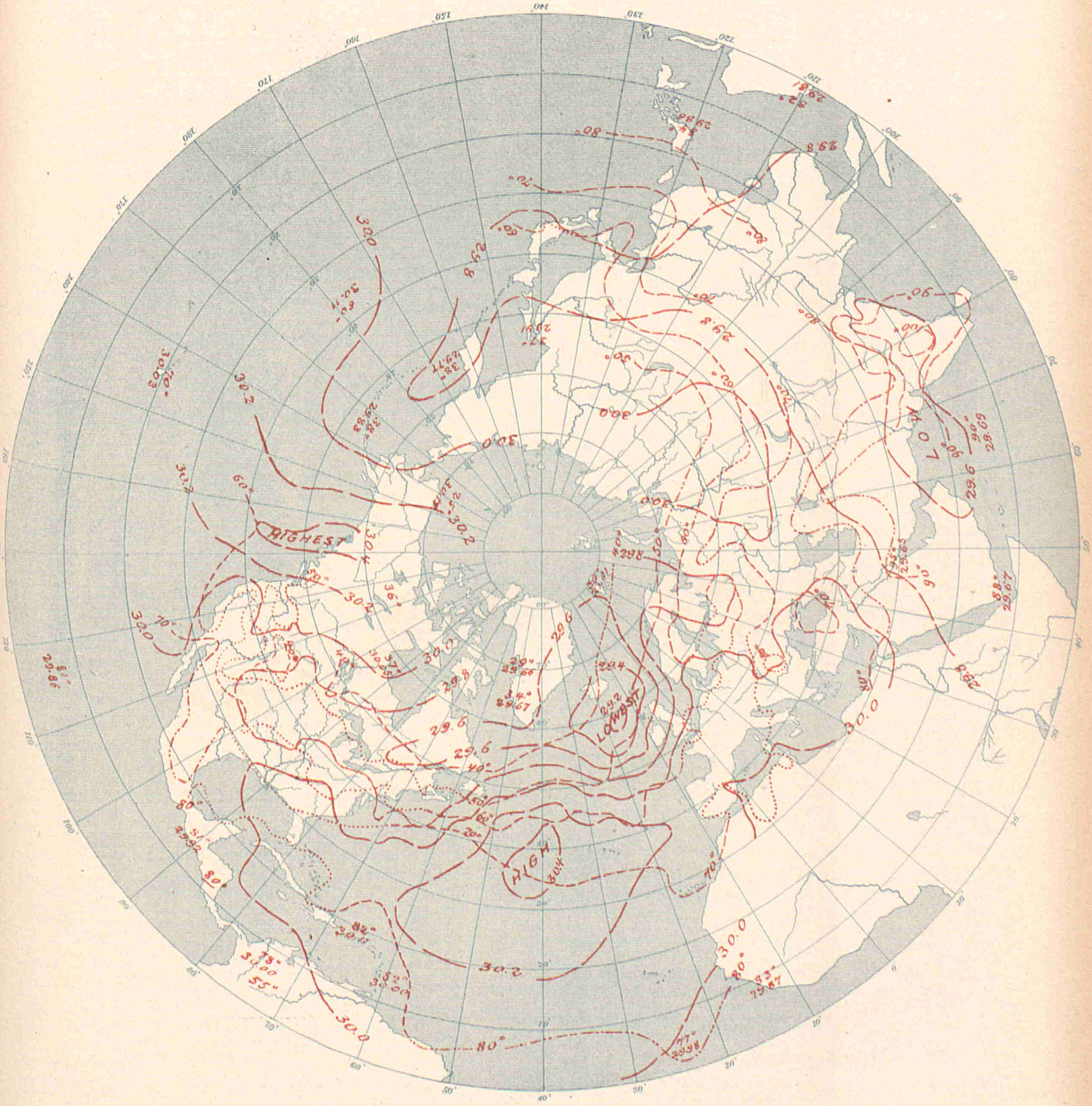
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.31	693.7	29.76	755.9	49	9.4	100	se.	12	5.4			10 n			0.40	10.2	heavy rain	W. B. Lamar.
Keokuk, Iowa	29.13	739.9	29.78	756.4	56.0	13.3	86	ne.	4	1.8			10 n		ne.	0.57	14.5	heavy rain	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	83.0	28.3	74	calm	0	0		2 c	2 k	w.	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.92	760.0	29.94	760.5	65	18.3	68	nw.	13	5.8		0	1 k			0.63	16.0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.00	736.6	30.02	762.5	55.7	13.2	94	sw.	1	0.4		0	0			0.06	1.5	clear	J. A. Cody.
La Crosse, Wisconsin	28.93	734.8	29.69	754.1	53	11.7	66	s.	2	0.9		0	8 s			0.15	3.8	cloudy	S. C. Emery.
Leavenworth, Kansas	28.74	730.0	29.62	752.3	58	14.4	80	se.	6	2.7		3 cs	4 s	sw.		0.18	4.6	fair	A. W. Browne.
Lewiston, Idaho	29.24	742.7	30.08	764.0	51.5	10.8	56	e	3	1.3		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.55	750.6	29.86	758.4	65	18.3	68	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.58	751.3	29.98	761.5	57	13.9	93	w.	2	0.9			fg.			0.01	0.3	dense fog	T. S. Collins.
Louisville, Kentucky	29.31	744.5	29.86	758.4	59	15.0	81	s.	6	2.7			10 s			inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.23	742.4	29.91	759.7	65.3	18.5	55	calm	0	0		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.01	736.8	29.66	753.4	49.5	9.7	63	nw.	12	5.4		2 ck	0	nw.		0.04	1.0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.94	760.5	29.95	760.7	66.0	18.9	68	nw.	5	2.2		0	0			0.10	2.5	clear	William Daly.
Maginnis, Fort, Montana	25.53	648.5	29.94	760.5	35	1.7	72	nw.	16	7.2			10 n		nw.	0.16	4.1	heavy rain	F. Burke.
Marquette, Michigan	28.94	735.1	29.66	753.4	49	9.4	56	nw.	7	3.1		8 k	0	nw.		0.11	2.8	cloudy	E. H. Thompson.
Memphis, Tennessee	29.55	750.6	29.88	758.9	70	21.1	66	s.	8	3.6		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	28.98	736.1	29.72	754.9	54	12.2	74	w.	13	5.8		7 cs	0	w.		0.02	0.5	fair	W. Line.
Missoula, Fort, Montana	26.70	678.2	30.00	762.0	51	10.6	74	n.	2	0.9		5 k	0	w.		0.02	0.5	fair	J. H. Young.
Mobile, Alabama	30.03	762.7	30.07	763.8	65	18.3	86	nw.	1	0.4		6 cs	3 ks	sw.	nw.	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.79	756.7	30.02	762.5	64.0	17.8	81	calm	0	0		3 k	0	w.		0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.81	731.8	29.79	756.7	39	3.9	73	n.	6	2.7		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.59	599.2	29.77	756.1	41.0	5.0	90	s.	12	5.4		5 k	0	s.		0.16	4.1	fair	S. W. Beall.
Nashville, Tennessee	29.37	746.0	29.94	760.5	57.5	14.2	86	s.	2	0.9		5 ck	0	w.		0.03	0.8	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.60	751.8	29.72	754.9	54.5	12.5	100	s.	1	0.4			fg.			0	0	dense fog	J. H. Sherman.
New London, Connecticut	29.70	754.4	29.75	755.6	57	13.9	93	sw.	1	0.4			fg.			0.16	4.1	dense fog	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.04	763.0	68.5	20.3	77	s.	2	0.9		0	9 s		s.	0	0	cloudy	H. C. Smyth.
New York, New York	29.59	751.6	29.77	756.1	61	16.1	65	w.	6	2.7		0	0			0	0	clear	G. E. Franklin.
Norfolk, Virginia	29.90	759.4	29.92	760.0	67	19.4	68	w.	6	2.7		0	hz.			0.15	3.8	clear	Wm. Davis.
North Platte, Nebraska	26.85	682.0	29.72	754.9	52.6	11.4	73	nw.	9	4.0		3 c	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.17	766.3	30.21	767.3	50.0	10.0	86	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.54	724.9	29.70	754.4	57.0	13.9	82	ne.	3	1.3			10 s		ne.	0.65	16.5	cloudy	A. Pollak.
Ooglaamie, Alaska	30.17	766.3	30.19	766.8	24.8	— 4.0	98	ese.	8	3.6		hz.	3 s			inap.	inap.	clear	P. H. Ray.
Oswego, New York	29.37	746.0	29.70	754.4	58.5	14.7	78	s.	6	2.7		1 cs	0			0.11	2.8	clear	J. G. Linsley.
Palestine, Texas	29.38	746.2	29.93	760.2	63.0	17.2	81	s.	16	7.2		2 cs	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.04	763.0	30.07	763.8	65.1	18.4	85	n.	2	0.9		5 cs	5 s	w.	w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.73	755.1	29.83	757.7	63.5	17.5	78	w.	9	4.0		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.71	449.8	29.77	756.1	20	— 6.7	100	nw.	24	10.7			10 ks		nw.	0	0	cloudy	H. Hall.
Pioche, Nevada	24.04	610.6	29.96	761.0	61.0	16.1	50	nw.	6	2.7		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.04	737.6	29.84	757.9	53.5	11.9	86	s.	6	2.7		0	7 k		w.	0.12	3.0	fair	W. A. Reid.
Poplar River, Montana	27.78	705.6	29.90	759.4				se.			1		10 s			0	0	cloudy	W. D. Maxwell.
Port Huron, Michigan	29.01	736.8	29.69	754.1	53.0	11.7	80	sw.	9	4.0		0	0			0.06	1.5	clear	M. H. Perry
Portland, Maine	29.62	752.3	29.67	753.6	55.0	12.8	80	e.	5	2.2			fg.			0.05	1.3	dense fog	W. W. Eichelberger
Portland, Oregon	30.11	764.8	30.18	766.6	51.2	10.7	80	n.	1	0.4		3 cs	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					69	20.6	78	n.	11	4.9		0	0			1.88	47.8	clear	F. P. Chaffee.
Prescott, Arizona	24.76	628.9	29.86	758.4	57.5	14.2	29	sw.	5	2.2		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.67	753.6	29.70	754.4	59	15.0	87	sw.	4	1.8		0	1s;fg		w.	0.33	8.4	clear	P. T. Jenkins.
Punta Rassa, Florida	30.06	763.5	30.07	763.8	73	22.8	76	n.	12	5.4		10 cs	0	w.		0.04	1.0	cloudy	W. J. Evans.
Red Bluff, California	29.49	749.0	29.84	757.9	70	21.1	47	calm	0	0		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.04	737.6	29.70	754.4	57	13.9	74	sw.	16	7.2		5 c; k	2 ks	w.	sw.	0.02	0.5	fair	E. W. McGann.
Roseburg, Oregon	29.57	751.1	30.12	765.0	50.1	10.1	78	n.	1	0.4		1 cs	0	nw.		0	0	clear	J. J. Nanry.
Sacramento, California	29.76	755.9	29.84	757.9	63.0	17.2	78	s.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.30	744.2	29.89	759.2	50.5	13.6	100	w.	9	4.0			10 n		sw.	0.04	1.0	light rain	J. H. Weber.
St. Michael, Fort, Alaska	29.96	761.0	29.99	761.7	37	2.8	100	ne.	12	5.4			10 s			0.08	2.0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.86	733.0	29.70	754.4	49.5	9.7	81	calm	0	0		0	0			inap.	inap.	clear	P. F. Lyons.
St. Vincent, Minnesota	28.08	730.1	29.84	757.9	39	3.9	89	nw.	4	1.8		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.60	650.2	29.92	760.0	54	12.2	36	nw.	7	3.1		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.25	742.9	29.95	760.7	68	20.0	70	se.	3	1.3			10 s			0	0	cloudy	J. H. Davis.
San Diego, California	29.88	758.9	29.94	760.5	59.4	15.2	87	nw.	3	1.3			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.74	755.4	29.77	756.1	62.0	16.7	72	w.	18	8.0		0	0			0	0	clear	B. A. Blundon.
Sanford, Florida	30.02	762.5			72.5	22.5	81	ne.	1	0.4		10 cs	0			0	0	cloudy	J. B. Marbury.
San Francisco, California	29.85	758.2	29.92	760.0	52	11.1	96	sw.	11	4.9			fg.		sw	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.15	588.0	29.76	755.9	53	11.7	29	e.	5	2.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.97	761.2	30.06	763.5	68.5	20.3	56	w.	3	1.3		90;cs	hz.	w.		0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	30.01	762.2	41	5.0	82	nw.	5	2.2		0	8 k		nw.	0.08	2.0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.72	754.9	29.96	761.0	66.5	19.2	72	s.	6	2.7		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.52	724.4	29.74	755.4	59.5	15.3	66	s.	12	5.4		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	30.39	771.9	30.45	773.4	40	4.4	73	ne.	5	2.2		0	0			0.16	4.1	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.32	744.7	29.79	756.7	61.3	16.3	84	e.	3	1.3		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.94	760.5	29.98	761.5	67	19.4	55	n.	9	4.0		1 c	0			0.01	0.3	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.07	713.0	30.12	765.0	50	10.0	86	ne.	2	0.9		5 ck	0	n.		0	0	fair	John F. Hemenway.
Springfield, Illinois	29.20	741.7	29.87	758.7	56	13.3	80	w.	4	1.8			10 n		w.	0.26	6.6	light rain	T. B. Jennings.
Springfield, Missouri	28.33	719.6	29.75	755.6	59	15.0	81	s.	8	3.6			10 s		sw.	0	0	threatening	J. H. Bryce.
Starkville, Miss	29.53	750.0	30.00	762.0	65	18.3	68	sw.	11	4.9		0	0			0	0	clear	C. Dill.
Stevenson, Fort, Dakota																			A. Schneider.
Stockton, Fort, Texas	26.84	681.7	29.85	758.2	68	20.0	76	sw.	15	6.7		0	0			0	0	clear	A. J. Warren.
Thatcher's Island, Mass	29.65	753.1	29.70	754.4	49.0	9.4	89	n.	3	1.3			fg.			0.08	2.0	dense fog	G. Liebmann.
Thomas, Camp, Arizona	27.15	689.6	29.82	757.4	53	11.7	57	e.			1	0	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.08	738.6	29.76	755.9	58	14.4	70	sw.	10	4.5		5 c	0	w.		0.05	1.3	fair	A. Buell.
Tucson, Arizona	27.49	698.2	29.83	757.7	59	15.0	41	se.	1	0.4		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.80	756.9	29.83	757.7	38	3.3	72	nw.	10	4.5			9 s		nw.	0.01	0.3	cloudy	Samuel Applegate.
Verde, Fort, Arizona					56	13.3	29	sw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.75	755.6	30.00	762.0	64.0	17.8	75	s.	6	2.7		1 c	0			0	0	clear	James Kenealy.
Visalia, California	29.47	748.5	29.84	757.9	63.7	17.6	69	nw.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.39	619.5	29.87	758.7	37.2	2.9	90	se.	5	2.2		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.76	755.9	29.88	758.9	64.4	18.0	58	s.	3	1.3		0	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.89	657.6	29.74	755.4	52.5	11.4	59	nw.	3	1.3		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.23	742.4	29.83	757.7	57.5	14.2	67	w.	8	3.6		3 c	7 ks	s.	w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.94	760.5	29.99	761.7	66	18.9	63	nw.	4	1.8		1 c	0			0.15	3.8	clear	Samuel A. Haney.
Winnemucca, Nevada	25.60	651.8	30.00	762.0	46	7.8	56	calm	0	0		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.44	722.4	29.72	754.9	54	12.2	80	nw.	5	2.2			10 ks			0.00	1.5	cloudy	J. H. Atfield.
Yuma, Arizona	29.58	751.3	29.73	755.1	75.5	24.2	22	s.	8	3.6		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			55.0	12.8	88	sw.	1	0.4			10 n		nw.	0.01	0.3	drizzling	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.06	763.5			69	calm	0	0		0	0			0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	77.5	25.3	88	se.			2	5 k	4 s	e.		0.280	7.1	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.44	747.8	30.00	762.0	78	25.6	89	calm			0		10 ks		calm	0.02	0.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					80	26.7	90	ne.			1		10 ks		ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
Santiago de Cuba, W. I	30.02	762.5	30.05	763.3	81	27.2	82	calm	0	0		4 cs	0			0	0		R. Mason.
York Factory, B. A.	29.98	761.5	30.05	763.3	36.5	2.5	95	ne.	10	4.5		3 k	2 s	ne.	ne.	0	0		Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandria, Cattaro, Hungary	30.16	766.1	75	23.9	60	nnw.			1		1	nnw.						blue sky.
H. M. S. Dido. St. Kitts, W. I	30.07	763.8	80	26.7		e.			3		7	e.						d. clouds.
H. M. S. Himalaya, N. 44° 38′, W. 8° 49′	30.11	764.8	61	16.1	77	ssw.			3		8					3	ssw.	d. clouds.
H. M. S. Iris, Port Said, Egypt	30.03	762.7	73	22.8	74	nnw.			3		1							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.04	763.0	66	18.9	81	sw.			2		1							blue sky.
H. M. S. Opal, N. 29° 20′, W. 18° 52′	30.15	765.8	69	20.6	85	nne.			3		4	nne.				2	nne.	d. clouds.
H. M. S. Rocket, N. 47° 08′, W. 13° 00′	29.96	761.0	58	14.4	?	ssw.			4		8					2	wsw.	overcast.
H. M. S. Tyne, Carlisle Bay, Barbadoes, W. I	30.14	765.5	80	26.7	82	e.			2		5	e.						d. clouds.
H. M. S. Tenedos, N. 47° 04′, W. 52° 27′	30.00	762.0	45	7.2	92	sw.			3							2	wsw.	foggy.
U. S. Navy Yard, Pensacola, Fla	30.05	763.3	67	19.4	84	nne.	2	0.9			8		nne.	0	0			fair.
U. S. Navy Yard, Portsmouth, N.H.*	29.65	753.1	53	11.7	93	e.	3	1.3			10		e.	blank	blank			foggy.
U. S. S. Alliance, Norfolk, Va	29.91	759.7	62	16.7	88	w.			1		2			0	0			clear.
U. S. S. Colorado, New York, N. Y	29.81	757.2	65	18.3	54	wsw.	6	2.7			0			0	0			clear.
U. S. S. Franklin, Norfolk, Va	29.81	757.2	62	16.7	?	w.	6	2.7			0			0	0			clear.
U. S. S. Jamestown, Newport, R.I*†	29.80	756.9	54	12.2	93	sw.			2									foggy
U. S. S. Kearsarge, New York, N.Y	29.78	756.4	63	17.2	72	wsw.			3		2							fair.
U. S. S. Lancaster, Kronstadt, Russia	29.72	754.9	56	13.3	94	w.			2		8		calm			sm'h		fair.
U. S. S. Michigan, Erie, Pa			55	12.8	81	sw.			2		8		w.					light rain.
U. S. S. Minnesota, New York, N. Y	29.81	757.2	62	16.7	72	w.			2		0							clear.
U. S. S. New Hampshire, Newport, R. I	29.69	754.1	54	12.2	100	sw.			3							sm'h		foggy.
U. S. S. Portsmouth, Newport, R.I	29.76	755.9	53	11.7	100	ssw.			2		10							foggy.
U. S. S. Powhatan, Key West, Fla	30.04	763.0	81	27.2	96	ne.			0–1		2							clear.
U. S. S. Quinnebaug, Sierra Leone, Africa	29.98	761.5	82	27.8	83	wsw.			1		5		ssw.			sm'h		fair.
U. S. S. Saratoga, New York, N.Y	29.78	756.4	64	17.8	67	w.			2–3		2		w.	0	0	sm'h	w.	clear.
U. S. S. St. Louis, League Island, Pa	29.79	756.7	62	16.7	66	w.	8	3.6			0			0	0			clear.
U. S. S. Swatara, Key West, Fla †	30.05	763.3	79	26.1	86	ne.			1		5		ne.	0	0	sm'h		fair.
U. S. S. Tennessee, New York, N.Y	29.77	756.1	68	20.0	69	w.	6	2.7			2			0	0			clear.
U. S. S. Vandalia, New York, N.Y	29.73	755.1	64	17.8	78	wnw.			1		0							clear.
U. S. S. Wabash, Boston, Mass	29.69	754.1	59	15.0	76	calm	0	0			2		sw.	0	0			clear.
U. S. S. Yantic. New York, N Y	29.76	755.9	63	17.2	67	w.			3		0							clear.
Commewyne, N. 46° 39′, W. 21° 18′	29.97	761.2	56.9	13.8	69	wnw.			4		8							d. clouds.
S. S. Inchkeith. N. 21° 14′, W. 37° 23′	30.24	768.1	74	23.3	74	ne.			4		5							d. clouds.
S. S. British Crown, N. 50° 25′, W. 19° 52′ †	29.73	755.1	63	17.2		w.			6		3		w.	2 h'r	2 h'r	high	w.	clear.
S. S. British Prince, N. 47° 54′, W. 31° 25′ †	30.11	764.8	51	10.6		w.			6		6?		nnw.	2 h'r	2 h'r	r'gh	wnw.	clear?
S. S. Illinois, N. 39° 37′. W. 60° 57′ *	29.90	759.4	73	22.8		sw.			5		8		sw.			r'gh	sw.	cloudy.
S.S. Ohio, Philadelphia, Pa †	29.83	757.7	64	17.8	73	wsw.			2		3		calm	0	0			clear.
S. S. Pennsylvania, Liverpool, Eng †	29.93	760.2	63	17.2		n.			2		6		nw.					fair.
S. S. Circassian, N. 53° 07′, W. 26° 26′	29.52	749.8	46	7.8	92	wnw.			8		9					7	w.	showery.
S. S. Grecian, Glasgow, Scotland	29.87	758.7	60	15.6	94	ssw.			4		10		ssw.	7 h'r	7 h'r			overcast.
S. S. Nova Scotian, N. 53° 53′, W. 20° 28′	29.31	744.5	51	10.6		sw.			5		10		sw.			long	sw.	squally.
S. S. Manitoban, N. 48° 03′, W. 61° 00′			43	6.1	91	ne.			3		4		e.	0	0			clear.
S. S. Andes, Ponce, Porto Rico, W. I			82	27.8		se.			3		2		se.	0	0			
S. S. Alene, N. 19° 47′, W. 74° 27′†	30.13	765 3	79	26.1		var.			2		0			0	0	sm'h	sw.	clear.
S. S Ailsa, N. 24° 11′ W. 74° 08′			82	27.8		ne.			2									fair.
S. S. Anchoria, N. 41° 28′. W. 60° 28′ †	29.99	761.7				ssw.			5		8		ssw.	0	0	light	s.	cloudy.
S. S. Assyria, N. 40° 26′, W. 67° 58′	29.74	755.4	50	10.0		w.			2		10		w.	1 h'r	1 h'r	h'vy	ssw.	dense fog.
S. S. Bolivia, N. 43° 04′, W. 48° 58′ *†	30.40	772.1	58	14.4		sw.			3		10		nw.	0	0	long	nw.	overcast.
S. S. Dorian, N. 46° 42′, W. 34° 25′	30.27	768 8	52	11.1		wnw.			5		6		nw.	0	0	h'vy	nnw.	fine.
S.S. Devonia, N. 52° 44′, W. 26° 09′ *†	29.53	750.0	44	6.7		wnw.			8		6		wnw.			h'vy	w.	cloudy.
S. S. Furnesia, N. 41° 00′, W. 61° 10′ †	29.98	761.5	68	20.0	95	ssw.			4		2		sw.	0	0			clear.
S. S. Llandaff City, New York. N. Y†	29.68	753.9	64	17.8		calm			0		3		sw.	0	0			clear.
S. S. Marathon, Fiume, Austria	30.08	764.0	74	23.3		wsw.			2		7		wsw.	1 h'r	1 h'r	sm'h	wsw.	cloudy.
S. S. Pavonia, N. 41° 12′, W. 64° 57′	29.63	752.6	64	17.8	94	sw.			6		9		wsw.	6 h'r	6 h'r	long	sw.	cloudy.
S. S. Colina, N. 46° 30′ W. 56° 50′ †	29.80	756.9				sse.			2		10		sw.	0	0	sm'h	s.	foggy.
S. S. Ville de Marseilles, N. 27° 12′, W. 52° 48′			75	23.9		ese.			2		0			0	0	sm'h		clear.
S. S. Abyssinia, N. 41° 54′, W. 61° 42′	29.78	756.4	57	13.9	?	sw.			5		10		sw.	1 h'r	1 h'r	r'gh	sw.	foggy.
S. S. Wisconsin, N. 46° 52′. W. 36° 52′			54	12.2		nw.			3		7		nnw.	0	0	mod.	w.	cloudy.
S. S. Wyoming, N. 50° 58′ W. 16° 26′	29.66	753.4	55	12.8		wsw.			6		3		wsw.	0	0	h'vy	w.	clearing.
S. S. Bohemia, N. 47° 50′, W. 32° 10′						w.			4		8		w.	0	0	long	nw.	cloudy.
S. S. Gellert, Hamburg, Germany			70	21.1	85	w.			3		1		ese.	0	0			clear.
S. S. Rugia, Hamburg, Germany	30.15	765.8	69	20.6		e.			2		0			0	0			clear.
S. S. Silesia, N. 20° 00′, W. 62° 10′	30.13	765.3	81	27.2		ene.			2		2		e.	0	0			clear.
S. S. Westphalia, N. 49° 57′, W. 2° 51′	30.24	768.1	55	12.8	93				4					0	0	mod.	w.	clear.
S. S. City of Berlin, N. 49° 45′, W. 28° 40′	29.89	759.2	50	10.0	72	nnw.			6		3		n.	2 h'r	2 h'r	h'vy	w.	fine.
S. S. City of Paris, N. 44° 10′, W. 39° 31′						sw.			4				nw.			h'vy		fine.
S. S. Virginian, N. 46° 40′, W. 33° 30′ *	30.16	766.1	56	13.3		wsw.			5		2		w.	0	0	mod.	nnw.	clear.
S. S. Archimedes, N. 21° 59′ W. 58° 36′	30.15	765.8				e.			2		4		ne.	0	0	light	ne.	fair.
S. S. Colorado, Galveston, Texas†	30.00	762.0	68	20.0		sse.			2		6		sse.	0	0			fair.
S. S. Rio Grande. N. 24° 23′, W. 82° 47′ *†	30.05	763.3	81	27.2		ne.			1		3		ne.	0	0	mod.	s.	clear.
S. S. San Marcos, N. 31° 20′, W. 78° 10′			78	25.6		nw.			4		0							clear.
S. S. Chalmette, N. 34° 53′, W. 75° 37′†	29.98	761.5	70	21.1		w.			5		0			4 h'r	4 h'r	mod.	s.	clear.
S. S. New York, N. 25° 43′, W. 80° 05′			78	25.6		w.			2		2		w.			sm'h		clear.
S. S. Lone Star, N. 28° 25′, W. 88° 18′ †	30.05	763.3	76	24.4		ese.			3		5		se.	0	0	sm'h		fair.
S. S. Alleghany, Boston, Mass†	29.67	753.6	58	14.4		calm			0		2		sw.	0	0			clear.
S. S. Archimede, Marseilles, France †	30.14	765.5	72	22.2	62	ene.			2		6		ene.	0	0			fair.
S. S. City of Merida, N. 27° 21′, W. 80° 13′†	30.02	762.5	82.4	28.0		e.			1		5		e.	0	0	light	e.	fair.
S. S. City of Washington, Vera Cruz, Mexico†	30.03	762.7	81	27.2		s.			2		8		s.	0	0	sm'h		cloudy.
S. S. Denmark, London, Eng†	30.03	762.7	68	20.0		s.			3		2		s.	0	0			clear.
S. S. Egypt, N. 48° 30′ W. 34° 27′*†	30.12	765.0	52	11.1		wsw.			6		8		wsw.	0	0	r'gh	wsw.	cloudy
S. S. Helvetia, N. 49° 45′, W. 22° 44′	29.80	756.9	59	15.0	88	wnw.			6		8		wnw.	1 h'r	1 h'r	r'gh	w.	squally.
S. S. Holland, N. 47° 24′. W. 24° 26′	29.90	759.4	58	14.4		nw.			4		8		nw.	1 h'r	1 h'r		nw.	cloudy.
S. S. Donau, N. 48° 50′, W. 14° 36′	29.87	758.7				wsw.			2–3		8		wnw.	2 h'r	2 h'r	mod.	wsw.	hazy.
S. S. Elbe, Bremerhaven, Germany	30.23	767.8	64	17.8	58	nnw.			3–4		0			0	0			clear.
S. S. Fulda, N. 47° 15′, W. 32° 34′	30.15	765.8	52	11.1	86	nnw.			5		8		nnw.	0	0	long	nw.	cloudy.
S. S. Hohenzollern, N. 40° 33′, W. 58° 01′ *	30.10	764.5	70.7	21.5		sw.			0		8		sw.	0	0	high	sw.	cloudy.
S. S. Hohenstaufen, N. 43° 41′, W. 44° 20′	30.28	769.1				sw.			4		1		w.	0	0	mod.	nw.	clear.
S. S. Main, N. 48° 43′, W. 23° 45′	29.88	758.9	53.6	12.0		w.			6		5		w.	6 h'r	6 h'r	r'gh	w.	squally.
S. S. Neckar, N. 40° 23′ W. 62° 58	29.88	758.9	65.0	18.3	89	ssw.			5		10		ssw.	rain	rain	mod.	ssw.	cloudy.
S. S. Ohio, N. 45° 50′, W. 19° 33′	30.03	762.7				nw.			4		4		wnw.	1 h'r	1 h'r	light	nw.	fair.
S. S. Salier, N. 52° 06′, E. 2° 43′ *†	30.15	765.8	57	13.9		s.			4		0			0	0	high	s.	clear.
S. S. Weser, N. 39° 55′, W. 58° 04′	30.15	765.8				ssw.			6		10		ssw.	½ h'r	½ hr	r'gh	ssw.	rainy.
S. S. Orinoco, New York, N. Y *†.	29.80	756.9	71	21.7		wsw.			4		2		wsw.	0	0			clear.
S. S. Colon, N. 19° 00′, W. 74° 32′ †	30.09	764.3	84	28.9		ene.			2		0			0	0	sm'h		clear.
S. S. Muriel, N. 37° 16′, W. 72° 10	29.79	756.7	64	17.8		ssw.			3		5			0	0	long	ssw.	foggy.
S. S. City of Augusta, N. 33° 47′, W. 77° 36′ †	29.98	761.5				wnw.			6		8		nw.	0	0	sm'h		cloudy.
S. S. Belgenland, N. 40° 57′, W. 55° 10′			69	20.6	85	s.			6		3		w	¼ h'r	¼ h'r	mod.	s.	clear.
S. S. Nederland, N. 46° 34′, W. 24° 52′			54	12.2		w.			5		8		w.	1 h'r	1 h'r	long	w.	cloudy.
S. S. Rhynland, N. 40° 32′, W. 61° 30′	29.92	760.0	62	16.7	88	s.			9		10			0	0	high	ssw.	overcast.
S. S. Pennland, New York, N.Y	29.86	758.4	66	18.9	68	nw.			3		1		nw.	0	0			clear.
S. S. Waesland, Antwerp, Belgium	30.13	765.3	74	23.3		sse.			3		2		sse.	0	0			clear.
S. S. P. Caland, N. 41° 05′, W. 47° 00′	30.39	771.9	63.5	17.5	81	se.			2		1		n.			1	w.	clear.
S. S. Leerdam, N. 41° 40′, W. 46° 30′	30.35	770.9	62.5	16.9	91	sse			2		1					sm'h		clear.
S. S. W. A. Scholten, N. 49° 20′, W. 6° 33′	30.04	763.0	57.2	14.0	95	sw.			5		6		sw.	sq'lls	sq'lls	sm'h	wnw.	fair.
S. S. Caracas, N. 26° 12′, W. 68° 42′ †	30.22	767.6	79	26.1	86	sse			5		5		sse.	1 h'r	1 h'r	mod.	sse.	fair.
S. S. Claudius, N. 45° 25′, W. 33° 40′†	30.21	767.3	60.5	15.8	79	wnw.			4		5		n.	0	0	r'gh	var.	fair

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Valencia, Curacao, Venezuela †	30.14	765.5	84	28.9	79	ne.			5		3		ne.	0	0			clear.
S. S. State of Florida, N. 41° 22′, W. 49° 36′			65	18.3		ese.			3		1		e.	0	0	sm'h		clear.
S. S. State of Nebraska, N. 41° 47′, W. 61° 08′*†	29.87	758.7	61	16.1		ssw.			6		10		w.	2 h'r	2 h'r	high		gloomy.
S. S. State of Nevada, N. 54° 01′, W. 16° 11′†	29.41	747.0	51	10.6		sw.			4		7		wsw.	12 h'r	12 h'r	h'vy	wsw.	squally.
S. S. Romano, Hull, Eng†	30.00	762.0	64	17.8		sw.			2									clear.
S. S. Dominion, N. 54° 10′ W. 21° 24′*†	29.33	745.0	51	10.6		wsw.			3		10		wsw.			mod	wsw.	cloudy.
S. S. Oregon, N. 47° 43′, W. 59° 58′	29.66	753.4	37	2.8		ese.			2		10					mod.	ese.	foggy.
S. S. Lake Manitoba, Matane, Gulf St. Lawrence	29.63	752.6	42	5.6		ene.			4				ene.	5 h'r	5 h'r	sm'h		dense fog.
S. S. Olbers, Lisbon, Portugal†	30.04	763.0	72	22.2		n.								0	0	sm'h		
S. S. Daniel Steinmann, Antwerp Belgium†	30.17	766.3	70	21.1		ssw.			1		0			0	0			clear.
S. S. Norman, N. 38° 47′, W. 74° 57′	29.78	756.4				wnw.			5		0			0	0	r'gh	sw.	clear.
S. S. Saxon, Philadelphia, Pa†	29.89	759.2				wsw.			4		0			0	0			clear.
S. S. Baltic, off Saltees Light, Ireland*	29.84	757.9	56	13.3	100	sw.			5		10			12 h'r	12 h'r	mod.	wsw.	showery.
S. S. Celtic, off Saltees Light, Ireland†	29.89	759.2	57	13.9		ssw.			4		10			rain	rain	sm'h		overcast.
S. S. Germanic, N. 41° 10′ W. 59° 04′			69	20.6		ssw.			5		7		s.	0	0	mod.	ssw.	fair.
S. S. Iowa, N. 50° 58′ W. 14° 02′†	29.73	755.1	56	13.3		wsw.			6		9		wsw.	7 h'r	7 h'r	rg'h	wsw.	cloudy.
S. S. Antonio Lopez, Santander, Spain	30.15	765.8	58.5	14.7	79	ne.			4		0			0	0			clear.
Schr. Abbie H. Gheen, Jacksonville, Fla†	30.07	763.8	73	22.8		calm			0					0	0			cloudy.
Bg. Abbie Clifford, N. 39° 07′ W. 09° 14′†	29.91	759.7	68	20.0		w.			2		2		sw.	4 h'r	4 h'r	mod.	sw.	clear.
Bk. Alpha, N. 54° 50′, W. 15° 50′*†	29.46	748.3	52	11.1		sw.			8		6		sw.	4 h'r	4 h'r	h'vy	sw.	squally.
Bg. Alcira, Maracaybo, Venezuela	29.94	760.5	84	28.9		e.			2.		4		ene.	0	0			clear.
Bk. Adelaide, N. 4° 24′, W. 28° 49′*†	30.03	762.7	83	28.3		calm			0		2		ne.	0	0	light	ese.	clear.
Schr. Annie R. Lewis, Maunabo, Porto Rico, W. I†	30.23	767.8	85	29.4		e.			2		5		ese.	0	0	mod.	ese.	fair.
Schr. Authur Burton, St. Simon's Island, Ga*†	30.00	762.0				w.			1		0			0	0			fine.
Bk. Aureola, N. 30° 20′, W. 60° 14′†	30.20	767.1	83	28.3		e.			2		0			0	0			clear.
Bk. Achille F, N. 2° 45′, W. 25° 15′†	29.98	761.5	77	25.0	95	s.			1		8		se.	18 h'r	18 h'r	long	sse.	cloudy.
Bg. Arda, South Joggings, N. S						ssw.			5		fg.		wsw.	3 h'r	3 h'r	sm'h		foggy.
Bk. Abla, N. 57° 14′, W. 49° 54′*†	29.58	751.4	38.3	3.5		ese.			5									raining.
Bg. Annie R. Storer, N. 37° 05′ W. 74° 25′†	29.94	760.5				nw.			2		1		nw.	0	0	long	s.	fine.
Bgt. Achsah, N. 24° 05 W. 66° 23′†	30.13	765.3	81	27.2		ese.			2		2		ese.	0	0	mod.	ese.	clear.
S. S. Burswell, N. 36° 39′, W. 2° 04′ *†	30.10	764.5	75	23.9		calm			0		0		nw.	6 h'r	6 h'r	sm'h		fair.
Bg. Belle of the Bay, N. 26° 30′, W. 87° 00′†	30.12	765.0				ene.			3		10		w.	16 h'r	16 h'r	sm'h	e.	threatening
Bk. Champion, N. 33° 18′, W. 73° 48′			80	26.7	66	w.			4		8		nw.	2 h'r	2 h'r	short	nw.	cloudy.
Bk. Childwall, N. 34° 17′. W. 32° 10′			70	21.1		wnw.			2		8		wnw.	½h'r	½h'r	light	nw.	fine.
Schr. Clotilde, N. 23° 14′, W. 85° 44′*†	30.00	762.0	84	28.9		e.			2		0			0	0			clear.
S. Criterion, N. 57° 37′, W. 16° 50′ *†	29.18	741.4				s.			6		5		s.	sh'rs	sh'rs	light	ssw.	squally.
S. David Stewart, N. 29° 36′, W. 43° 00′†	30.29	769.4				sse.			1		1		s.	0	0	mod.	s.	clear.
S. S. D. J. Foley, Kingston, Jamaica, W. I*†	30.00	762.0	81	27.2	83	se.			1		3		se.	0	0			clear.
Btk. David A. Preston, Navassa, W. I			84	28.9		e.			4		10		e.	0	0	long	se.	
Schr. Edith R. Seward, Vivorilla Cays Mosquito coast†	30.10	764.5	88	31.1		e.			1		3		e.	0	0	sm'h	e.	clear.
S. E. J. Spicer, off Holyhead, Wales	29.88	758.9	56	13.3		wsw.			7		10		wsw.	2 h'r	2 h'r	mod.	wsw.	overcast.
Bk. E. D. Bigelow, N. 46° 55′, W. 27° 22′*†	30.00	762.0	59	15.0		nw.			6		8		nnw.	0	0	cross	w.	gloomy.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	30.05	763.3	70	21.1	75	w.			1		1		calm	0	0			clear.
H. P. M. S. Rio Lima, Porto Praya, Cape Verd Ids			75.2	24.0	86	ne.			3		0					3		blue sky.
Schr. F. E. McDonald, N. 35° 10′ W. 75° 20′ †	29.95	760.7				nw.			4					0	0			clear.
Bk. George Davis, N. 49° 12′, W. 27° 55′						nnw.			7				wnw.	0	0	h'vy	wnw.	cloudy.
Bk. Gronsvaer, N. 26° 32′, W. 64° 54′†	30.18	766.5	78.8	26.0							4		se.	0	0	sm'h		fair.
Bk. Galeon, N. 20° 49′, W. 90° 33′†	29.98	761.5	78	25.6		e.			3		0			0	0	sm'h	se.	blue sky.
S. Hedwig, N. 38° 41′, W. 17° 03′	30.21	767.4	65.8	18.8	83	nnw.			1		4		nnw.	0	0	2	nw.	
Bk. Hattie G. McFarland, Port Royal, S C*†	30.00	762.0	70	21.1		calm			0		6		s.	0	0			dull.
Bk. John H. Pearson, N. 15° 24′, W. 17° 44′						nne.			4				ene.	0	0	short	nne.	clear.
Bk. Cato, N. 65° 09′, E. 6° 40′*†	29.87	758.7				ssw.			5		4		sw.	0	0	long	sw.	fair.
Bk. Johanne, N. 36° 42′, W. 2° 00′*†	30.00	762.0	72	22.2		ene.			3		2		sw.	4 h'r	4 h'r	sm'h		hazy
Schr. John L. Thomas, N. 31° 10′, W. 70° 30′*†	30.12	765.0				sw.			4		10		w.	1 h'r	1 h'r	cf'd		overcast
Bg. John Wesley, N. 34° 21′, W. 66° 00′ *†	30.01	762.2				ssw.			5		10		sw.	½ hr	½ h'r	mod.	sw.	drizzling.
Schr. Jennie N. Huddell, N. 35° 30′, W. 75° 22′†	29.98	761.5	64	17.8		w.			3		2			1 h'r	1 h'r	short	sse.	clear.
Bkt. Josephine, N. 34° 00′, W. 70° 42′ †	29.96	761.0	75	23.9	77	sw.			5		5			½h'r	½h'r	r'gh	sw.	hazy.
Bg. L. & W. Armstrong, New Haven, Conn*†	29.78	756.4				s.			1		0			0	0	sm'h		foggy.
Light-house Tender Laurel, Pensacola Bay, Fla†	30.07	763.8	70	21.1		e.			1		10		e.	1 h'r	1 h'r			cloudy.
Bg. Lillan, N. 9° 50′, W. 58° 50′ *†	30.02	762.5	81	27.2		e.			4		6		e.	2 h'r	2 h'r			fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	81	27.2		calm			0		2			0	0			clear.
Bk. Milo, N. 48° 58′, W. 22° 57′†	29.80	756.9				nw.			8–9				nw.			high	nw.	squally.
S. S. Madrid, Point Porman, Spain†	30.04	763.0	66	18.9	89	ne.			5		7		ne.	18 h'r	18 h'r	sm'h		thund'r st'm
Schr. Minnie A. Bonsall, Hoboken, N. J†	29.78	756.4	69	20.6		w.			1		0			0	0			clear.
Bkt. Kryohth, N. 59° 33′, W. 47° 08′ *†	29.70	754.4				nw.			1		2			0	0	sm'h		hazy.
Bk. Matilda C. Smith, N. 41° 55′, W. 37° 00′ †	30.39	771.9				nw.			2		3		nw.	0	0	mod.	sw.	fine.
Bgt. Myrtle, N. 24° 49′ W. 58° 02′*†	30.35	770.9				ese.			3		1		e.	0	0			
Bk. Mathais, N. 44° 23′, W. 26° 19′ *†	30.30	769.6	59	15.0		nw.			5		4		nw.	2 h'r	2 h'r	long	wnw.	fair.
Schr. Maggie Abbott, N. 39° 30′, W. 73° 54′†	29.78	756.4				wsw.			5		0			0	0	h'vy	s.	clear.
S. S. Mendoza, N. 33° 04′, W. 72° 06′						w.			3				w.	0	0	r'gh	var.	overcast.
Schr. Maud Briggs, Barbadoes, W. I*†	30.11	764.8				ene.			5		4		ene.	0	0			fair.
Bk. National Eagle, N. 39° 37′, W. 71° 50′						sw.			3		2		ssw.	0	0	long	ssw.	fair.
Bk. Ottawa, N. 44° 16′, W. 24° 58′*	30.02	762.5	57	13.9		nw.			6		6		nw.	2 h'r	2 h'r	long	nw.	fair.
S. S. Raleigh, N. 25° 10′, W. 74° 00′†	30.19	766.8	80	26.7		s.			2		4		s.			mod.	se.	fair.
Bg. Rising Sun, N. 33° 44′, W. 64° 20′*†	30.15	765.8	73	22.8		ssw.			6		9		ssw.	0	0	mod.	ssw.	cloudy.
Bk. Rosalie, St. John, Antigua*†	30.10	764.5				e.			3				e.	0	0			clear.
Bk. Rosino, N. 40° 00′, W. 59° 24′			71	21.7		sse.			7		9		sse.	2 h'r	2 h'r	mod	sse.	
Bk. Scud, N. 27° 44′, W. 53° 40′*†	30.26	768.6	79	26.1		ese.			1		5		ese.	0	0	sm'h		fine.
Bk. Southern Belle, N. 32° 45′, W. 19° 25 †	30.17	766.3	70	21.1		ne.			2		0			0	0			clear.
S. St. Francis, N. 47° 40′, W. 24° 45′			55	12.8	50	nw.			8		6		nw.	1 h'r	1 h'r	h'vy	w.	fair.
Bgt. Sunlight, N. 25° 40′, W. 66° 03′*†	30.39	771.9				se.			3		5		sse.	½h'r	½h'r	sm'h		fair.
Bg. Teneriffe, N. 34° 15′ W. 74° 10′ *	29.88	758.9				nw.			4		0					mod.		
Bk. Tuck Sing, N. 21° 07′, W. 79° 48′†*	29.98	761.5				ese.			2		0			0	0	sm'h		fine.
Bk. Usko, N. 45° 58′, W. 17° 52′*	29.90	759.4	60	15.0		w.			2		9		w.	0	0	mod.	w.	light rain.
Bkt. Wandering Jew, N. 28° 41′, W. 74° 11′†	30.10	764.5	73	22.8		ssw.			5		10		ssw.	0	0	mod.	se.	threatening.
S. Wm. Wilcox, N. 35° 40′, W. 74° 45′*†	30.00	762.0				w.			1		0			4 h'r	4 h'r	mod.	ssw.	clear.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.69	779.5	50.2	10.1	97	nnw.			4		0							blue sky,
H. M. S. Boadicea, Cape Town, Cape Colony	30.34	770.0	60	15.6	94	sse.			2		6							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata	30.49	774.4	52	11.1	79	n.			4									blue sky.
H. M. S. Thetis, S. 3° 26′, W. 21° 08′	30.01	762.2	78	25.0	82	se.			4		1					2	sse.	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.51	774.9	46	7.8	84	nnw.	4	1.8			0			0	0	sm'h		clear.
U. S. S Galena, Montevideo, Uruguay*	30.50	774.7	45	7.2	84	nnw.			1		0					sm'h		clear.
S. S. Hevelius, Rio de Janeiro, Brazil†	30.42	772.7	66	18.9		ssw.			6		5		sse.	6 h'r	6 h'r	high	sw.	fair.
Bk. Alpheus Marshall, S. 32° 15′, E. 12° 04′*†	30.33	770.4				se.			3		3		sse.	2 h'r	2 h'r	mod.	sw.	clear.
Bk. Horace Scudder S. 8° 05′, W. 10° 51′*†	30.09	764.3	78	25.6		sse.			5		9		sse.	0	0	long	s.	cloudy.
S. Mt Washington, S. 14° 25′, W. 34° 57′ *†	30.20	767.1	76.3	24.6	95	var.			4–0		10		sse.	5 h'r	5 h'r	long	ssw.	light rain.
S. Minnie N. Gerow, S. 35° 06′ E. 2° 06′			58	14.4		e.			2		10		e	0	0	sm'h	se.	overcast.
S. Paramita, S. 0° 04′, W 32° 45′†	29.92	760.0	82	27.8		var.			1		2		var.	0	0	small	sse.	clear.
S. Wm. McGilvery, S. 10° 50′, W. 35° 25′*†	30.15	765.8	81	27.2	83	sse.			4		5		sse.	0	0	gr'd	ssw.	fair.
S. S. Hermod, S. 12° 08′, W. 33 41′†	30.22	767.6	82.4	28.0		ne.			2		0		se.	4 h'r	4 h'r	sm'h	ne.	fair.
H. P. M. S. Duque de Terceira, Benguela, Benguela	30.01	762.3	77.4	25.2	80	wnw.			2		4			0	0	2		d. clouds
H.P. M. S. Rainha de Portugal, S. 2° 54′, E. 9° 20′	29.98	761.5	82.4	28.0	79	s.			3		3		s.	0	0	2	s.	d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.86	758.4	69	20.6	80	se.			1		1	s.						blue sky.
H. M. S. Champion, N. 1° 43′, E. 110° 32′	29.81	757.2	82	27.8	87	calm			0		4							d. clouds.
H. M. S. Sappho, N. 13° 54′, W. 90° 49′	29.92	760.0	81	27.2		nw.			1		5	nw.				6	s.	raining.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 21′	29.82	757.4	56.5	13.6	90	sw.			2		2					1	sw.	d. clouds.
H. M. S. Magpie, N. 5° 17′, E. 115° 16′	29.84	757.9	82.9	28.3	83	calm			0		10							overcast.
H. M. S. Swiftsure, Esquimalt, V. I	30.15	765.8	53	11.7	80	calm			0		5	wsw.						d. clouds.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.79	756.7	68	20.0	56	calm			0		1							blue sky.
H. P. M. S. Tamega, Macao, China	29.84	757.9	84.2	29.0	85	sw.			6		2			5 h'r	5 h'r			d clouds.
U. S. Naval Hospital, Yokohama, Japan	29.77	756.1	63	17.2	86	sw.			1		0			0	0			clear.
U. S. S. Adams, Juman, Alaska †	30.48	774.2	39	3.9	91	calm			0		0					sm'h		clear.
U. S. S. Hartford, Hilo, Sandwich Ids*	30.03	762.7	70	21.1	85	sw.			1		2			0	0	sm'h		clear.
U. S. S. Monocacy, Roze Id, Corea	29.81	757.2	58	14.4	94	ssw.			2		2		calm					misty.
U. S. S. Palos, Hong Kong, China	29.71	754.6	83	28.3	87	ssw.			1		2		ssw.					clear.
U. S. S. Richmond, Hong-Kong, China*	29.71	754.6	83	28.3	91	se.			1		2		s.	0	0			clear.
S. S. Coptic, N. 33° 12′, E. 134° 29′	29.77	756.1	71.0	21.7	62	wnw.			3		0			0	0	sm'h		clear.
S. S. City of Chester, San Francisco, Cal†	29.95	760.7	51	10.6	93	sw.			4		0			0	0			clear.
S. S. Oregon, N. 42° 45′, W. 124° 43′†	30.12	765.0	53	11.7	80	n.			5		8		n.			r'gh	nnw.	cloudy.
S. S. Willametta, Seattle, Wash. Ter *†	30.25	768.3	52	11.1	93	nw.			1		1		nw.	0	0			clear.
S. S. Ancon, N. 32° 41′, W. 117° 17′ †	29.96	761.0	60	15.6	88	w.			1		8		sw.			sm'h		cloudy.
S. S. Dakota, N. 40° 29′, W. 124° 44′†.	29.98	761.5	60	15.6	82	nw.			6		8		nw.	0	0	long	nw.	cloudy.
S. S. G. W. Elder, N. 46° 00, W. 124° 12′†	30.17	766.3	51	10.6	86	nnw.			4		10					light	w.	overcast.
S. S. City of Pekin, N. 44° 15′, W. 140° 18′†	30.42	772.7	50	10.0	86	sse.			3		10		se.	0	0	small	s.	foggy.
S. E. B. Sutton, N. 38° 30′ W. 125° 00′†	29.99	761.7	52	11.1	100	n.			3		0			0	0	mod.	n.	clear
S. S. City of Rio de Janeiro, N. 37° 01′, E. 178° 35′ †	30.11	764.8	60	15.6	94	sse.			6		10		s.	0.2	5.	mod.	sse.	raining.
S. S. Granada, Panama Bay, Panama †	29.93	760.2	78	25.6	91	ne.			1		2			0	0			clear.
S. S. San Blas, N. 13° 56′, W. 90° 45′			88	31.1		w.			1		7		s.	1 h'r	1 h'r	small	ssw.	fair.
S. S. San José, N. 27° 15′, W. 114° 51′ †	30.01	762.2	76	24.4		w.			2		fg.					long	sse.	foggy.
S. Armenia, Farallones Ids, Cal *	29.86	758.4	54	12.2	93	s.			4		10			0	0	sm'h	nw.	foggy.
S. S. Benledi, N. 33° 45′, E. 135° 15′*	29.77	756.1	70	21.1	66	wnw.			2–3		0			0	0	sli't	w.	clear.
Bk. Bore, Macassar, Celebes Id*†	30.25	768.3	85	29.4		e.			1									
S. David Crocket, N. 60 06′, W. 115° 24′ *	29.86	758.4	80.5	26.9	80	sse.			2		4		s.	0	0	sm'h	s.	fair.
S. Grecian, N. 29° 57′, E. 137° 30′†	29.92	760.0	70	21.1	85	wsw.			6		9		nw.	0	0	mod.	w.	cloudy.
S. S. Malabar, Singapore, Malay Peninsula						var.					8		se.	0	0	sm'h		cloudy.
S. S. Radnorshire, N. 22° 17′, E. 114° 13′ *†	29.82	757.4				calm			0		hz.			2 h'r	2 h'r			hazy.
S. Titan, N. 42° 03′, W. 135° 42′*†	30.40	772.1	60	15.6	?	ene.			2		9		ese.	0	0	sm'h	e.	dense fog.
Bk. Xenia, Yang-tsi-Kiang river, China			63	17.2		ssw.			5				w.	0	0			cloudy.
S. S. Columbia, N. 40° 43′. W. 124° 35′†	29.91	759.7	51	10.6	86	nnw.			5		0			0	0	h'vy	nnw.	clear.
U. S. S. Ranger, Acapulco, Mexico	29.94	760.5	82	27.8	79	calm			0		2			0	0	sm'h		clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W.			57	13.9	69	calm			0		0							blue sky.
H. M. S. Espiegle, S. 8° 31′, E. 179° 36′	29.88	758.9	82	27.8	75	ese.			5		3							d. clouds.
H. M. S. Kingfisher, S. 29° 50′, W. 135° 59′	30.14	765.5	69	20.6		nne.			5		4					4	e.	d. clouds
H. M. S. Liffey S. 29° 56′, W. 71° 20′	29.98	761.5	55	12.8		calm			0							sm'h		d. clouds
H. M. S. Nelson, S. 21° 00′, E. 177° 10′	29.71	754.6	76	24.4	86	ne.			1		2	w.				sm'h		d. clouds.
U. S. S. Iroquois, Valparaiso, Chili	30.15	765.8	52	11.1	93	se.			1		5					sm'h		fair.
U. S. S. Lackawanna, S. 28° 51′, W. 105° 20′ *	30.18	766.6	64	17.8	62	s.			5		10		sse.			mod.	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	63	17.2	89	sse.			1		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.56	761.0	63	17.2	89	se.	3	1.3			10		se.	0	0			cloudy.
U. S. S. Wachusetts, S. 20° 49′, W. 166° 29′	29.98	761.5	73	22.8	85	calm			0		5		calm			sm'h		fair.
S. S. Australia, S. 34° 15′, E. 171° 30′	29.79	756.7	70	21.1	85	w			6		10		w.	4 h'r	4 h'r	long	w.	cloudy.
S. S. City of Sydney, Sydney, N. S. W*†	29.86	758.4	56	13.3	69	calm			0		0			0	0			clear.
S. S. Zealandia, S. 8° 52′, W. 168° 14′	29.99	761.7	83	28.3	87	e.			4		5		ese.			sm'h		fair
S. Storm King, S. 58° 09′, W. 74° 16′ *†	29.50	749.3				wnw.			4		5		nw.	0	0	mod.	wnw.	fair.
H. M. S. Lark, S. 10° 48′, E. 156° 48′	29.86	758.4	81.3	27.4	91	e.			4		4					3	e.	d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′ E. 44° 58′	29.57	751.1	88	31.1		ssw.			2									blue sky.
H. M. S. Euryalus, Trincomalee, Ceylon	29.69	754.1	90	32.2	60	sw.			3		8	sw.						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.94	760.5	81	27.2	91	se.			1		1	sse.				1	ssw.	blue sky.
H. M. S. Tourmaline, N. 14° 10′, E. 65° 10′	29.67	753.6	86	30.0	80	sw.			4		9					3	sw.	misty.
H. M. S. Woodlark, Bussorah, Turkey in Asia	29.65	753.1	95	35.0	50	nw.			4		0							misty.
U. S. S. Enterprise, S. 30° 36′, E. 30° 45′ *	29.92	760.0	66	18.9	68	nw.			3		10		calm			mod.	ne.	squally.
U. S. S. Juniata, Bombay, India	29.78	756.4	87	30.6	96	sw.			3		5		sw.	mod.	mod.	sm'h		fair.
S. S. Salerno, N. 18° 53′, E. 72° 48′ †.	29.80	756.9	88	31.1		wsw.			4		3		sw.	1 h'r	1 h'r	mod.	sw.	raining.
S. Annie M. Law, S. 31° 11′, E. 35° 42′ *†	29.84	757.9	72	22.2		nne.			2		10		wnw.	1 h'r	1 h'r	con.		overcast.
Bk. Ceylon, S. 34° 43′, E. 21° 05′ *†	30.32	770.1	66	18.9	89	sw.			6		10		sw.	4 h'r	4 h'r	r'gh	wsw.	clearing.
S. Dynomene, S. 35° 00′ E. 20° 00′	30.26	768.6	61.5	16.4	94	ssw.			5		6			mod.	mod.	mod.	sw.	fair.
Bk. Pilgrim, Samarang, Java, Oceania*†	29.90	759.4				e.			3		2		e.	0	0			clear.
S. S. Foscolia, N. 19° 07′ E. 39° 15′ †	29.74	755.4				nnw.			6		0			0	0	high	nnw.	clear.
S. S. Gordon Castle, S. 10° 48′, E. 135° 06′ *	29.95	760.7	78.5	25.8	86	se.			5–6		3		se.			3–4	se.	clear.

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



UNITED STATES OF AMERICA.

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

Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 29, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ALGERIAN.																			
Nemours			30.08	764.0	72.0	22.2	84	se.			1		0			0	0	clear	Malaterre.
Algiers			30.02	762.6	69.4	20.8	72	n.			3		4			inap.	inap.	cloudy	Thève.
La Galle			29.98	761.5	69.1	20.6	72	sw.			1		4			0.217	5.5	cloudy	Fonfrède.
Tunis			30.01	762.2															Jacques.
Saida			30.07	763.7															Pérès.
Tebessa			29.97	761.1	66.2	19.0	54	s.			4		4			0.205	5.2	cloudy	St. Martin.
Geriville					63.0	17.2	54	nw.			1		1			0	0	very fair	Forfert.
Laghouat			29.99	761.7	78.1	25.6	36	nw.			4		1			0	0	very fair	Abraham.
Biskra			29.89	759.3	78.8	26.0	45	nw.			2		3			0	0	pretty fair	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			30.02	762.5	48.7	9.3	82	s.	5	2.2			1 ks			0.120	3.0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.84	757.9	29.93	760.2	50.8	10.4	88	se.	4	1.8			9			0.11	2.8	showery	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.58	751.3	30.11	764.9	70.2	21.2	69	nw.			3		10			0.016	0.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.37	745.9	30.12	765.0	67.3	19.6	58	n.	3.8	1.7			6			0	0		Dr. Wierzbiski
Eperies	29.22	742.1	30.07	763.7	70.9	21.6	53	n.			3	cs	6 s		s.	0.181	4.6		Julius Mikolik.
Gratz	28.85	732.9	30.08	763.9	68.0	20.0	81	se.			2		10			0	0		Andreas Rospini.
Hermannstadt	28.64	727.5	30.01	762.2	76.6	24.8	52	wnw.			3		5			0.311	7.9		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.74	730.1	30.06	763.5	63.7	17.6	88	ene.			2		10			0.083	2.1	covered	The Staff.
Lemberg	29.10	739.1	30.06	763.6	66.4	19.1	48	ne.			3		5			0	0		Dr. T. Stanecki.
Neu Schmecks	26.78	680.2	30.08	763.9	61.3	16.3	71	calm			0		6			0.012	0.3		Dr. V. von Szontagh.
Pola	30.04	763.0	30.15	765.7	72.0	22.2	29	wsw.			1		3			0.244	6.2		I. R. Hydrographic Office.
Szathmar	29.57	751.0	30.02	762.5	73.8	23.2	56	n.			2		10			0	0		Joseph Midlinszky, S. J.
Szegedin	29.78	756.4	30.05	763.2	75.6	24.2	63	w.			1		10			0	0		Karl Stancel.
Trieste	30.05	763.3	30.15	765.8	69.8	21.0	78	sw.			1		3			0.181	4.6		Royal Academy.
Vienna	29.43	747.0	30.14	765.6	63.9	17.7	84	calm			0		10			0.110	2.8		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.61	752.1	29.71	754.6	58.2	14.6	56	s.	25	11.2			3			0	0	squally	W. Boswell.
Armagh, Observatory	29.57	751.1	29.81	757.2	54.0	12.2	80	ssw.	13	5.8			5					d. clouds	S. Oall.
Bidston, Liverpool Obs'y			29.90	759.4	60.7	15.9	47	sw.	25	11.2			3					blue sky	John Hartnup.
Bolton, Sharples	29.35	745.5	29.88	758.9	58.8	14.9	56	wsw.	18	8.0			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.51	749.5	29.90	759.4	60.4	15.8	56	nw.			2		6			0.02	0.5	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	76	24.4	93	ne.			1		8					overcast	Corpl. W. I. Cull, A. H.C.
Cardington	29.89	759.2	29.99	761.7	63.0	17.2	71	sw.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	29.88	758.9	30.01	762.2	68.5	20.3	61	sw.			1		6					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.85	758.2	30.08	764.0	58.6	14.8	59	w.			3		7					d. clouds	The Staff.
Fort Napier, Natal	27.82	706.6	30.04	763.0	63.0	17.2	42	s.			2		5					gloomy	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	79.0	26.1	100	nw.			1		3					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	29.72	754.9	29.76	755.9	51	10.6	79	w.			6		6			0.23	5.8	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	70.5	21.4	90	w.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.57	751.1	29.77	756.1	56.1	13.4	63	sw.			8		9					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.83	757.7	30.00	762.0	68.7	20.4	60	ssw.			1		7					d. clouds	The Staff.
Guernsey	29.80	756.9	30.09	764.3	55.0	12.8	68	sw.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.98	761.5	30.01	762.2	61.5	18.4	61	sw.	17	7.6			10					threatening	The Staff.
Leicester, Museum	29.69	754.1	29.95	760.7	55.4	13.0	90	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.01	762.2	30.09	764.3	70.2	21.2	94	e.					7					d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.10	764.5	30.15	765.8	85.5	29.7	67	se.			2		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.43	747.5	29.95	760.7	58.9	14.9	78	sw.			5		8					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.77	756.1	30.00	762.0	55.0	12.8	94	sw.			4		10					showery	The Staff.
Plymouth	29.96	761.0	30.04	763.0	63.8	17.7	62	w.			1		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.51	749.5	29.61	752.1	56	13.3	75						3					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.09	764.3	30.10	766.1	73.8	23.2	70	sw.			1		6					d. clouds	W. H. Lyne.
Sheffield	29.62	752.3	29.89	759.2	64.9	18.3	56	wsw.			4		3			0.01	0.3	d. clouds	W. F. Cooper.
Silloth Rectory	29.82	757.4	29.85	758.2	58.2	14.6	76	sw.			4		5			0.025	0.6	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.91	759.7	59.2	15.1	55	w.	16	7.2			7					d. clouds	W. O. Carlisle.
Truro, Royal Institution	30.06	763.5	30.14	765.5	62	16.7	61	w.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.92	760.0	29.95	760.7	53.2	11.8	72	wsw.	34	15.2			3					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.73	755.1	30.12	765.0	74.5	23.6	55	e.	12.4	5.5		8 c		w.		0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.74	755.4	29.78	756.4	52	11.1	88	sw.	12	5.4		5 cs	2 s	w.	w.	0.030	0.8	fair	H. J. Cundall, C. E
Chatham, N. B*	29.70	754.4	29.76	755.9	57	13.9	74	sw.	8	3.6		0	0			0.04	1.0	clear	G. A. Blair.
Cornwall, Ontario	29.43	747.5	29.02	752.3	52.4	11.3	87	sw.			1		10 n			0.013	0.3	overcast	Jas. Smith, M. A.
Dalhousie, N. B	29.66	753.4	29.71	754.6	52.5	11.4		w.			1	0	3 ks			0.100	2.5	blue sky	H. A. Johnson.
Father Point, Quebec*	29.62	752.3	29.64	752.8	44	6.7	93	w.	12	5.4		2 k	2 ks	calm	calm	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.08	738.6	29.92	760.0	43	6.1	83	n.	5	2.2			10 n			0	0	cloudy	James Stewart.
Fredericton, N. B	29.74	755.4	29.81	757.2	57.0	13.9	76	sw.	3	1.3		1 c	0			0.100	2.5	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	28.64	727.4	29.73	755.1	50.0	10.0	86	nw.	5	2.2		2 c	0	nw.		0	0	fine	Jas. Grant.
Halifax, N. S*	29.75	755.6	29.87	758.7	56	13.3	93	n.	5	2.2		2 k	0	nw.		0.080	2.0	fair	A. Allison.
Hamilton, Ontario	29.26	743.2	29.64	752.8	57.7	14.3	90	sw.			2	5 ck	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.36	744.2	29.64	752.8	51	10.6	90	ne.	3	1.3			10 n			0.18	4.6	heavy rain	A. P. Knight, M. A
Little Glace Bay, N. S	29.76	755.9	29.81	757.2	60.5	15.8	80	sw.			2	5 c	0	sw.		0.32	8.1	d. clouds	C. H. Rigby.
Montreal, Quebec*	29.47	748.5	29.67	753.6	53	11.7	86	s.	6	2.7			10 n		sw.	0.09	2.3	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.39	746.5	29.03	752.6	49.0	9.4	92	se.			1		10 ks			0.41	10.4	overcast	A. McGill, M. A.
Parry Sound, Ontario*	28.99	736.3	29.69	754.1	44	6.7	93	w.	4	1.8		2 cs	2 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	28.92	734.0	29.04	752.8	53.7	12.1		w.			1	9 k	0			0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.01	736.8	29.69	754.1	51	10.6	100	w.	5	2.2			10 n			0.23	5.8	light rain	H Morgan.
Port Stanley, Ontario	29.06	738.1	29.70	754.4	52	11.1	93	w.	8	3.6			8 k		nw.	0.21	5.3	cloudy	M. Payne.
Quebec, Quebec*	29.37	746.0	29.72	754.9	51	10.6	93	calm	0	0			10 ks		n.	0.01	0.3	cloudy	Capt. Ashe, R. N
Rockliffe, Ontario*	29.20	741.7	29.00	751.8	41	5.0	83	nw.	4	1.8			8 s		sw.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.76	755.9	29.82	757.4	51	10.6	92	sw.	1	0.4		0	0			0	0	clear	
St. John, N. B	29.66	753.4	29.83	757.7	45.0	7.2	100	sw.	8	3.6			fg			0.140	3.6	foggy	G. Murdock, C. E.
Saint John's, N. F	29.53	750.0	29.78	756.4	55	12.8	93	w.			4	0	8 ks			0.18	4.6	d. clouds	J. Higgins.
St. Pierre, N. F			29.76	755.9	44.6	7.0		sw.			4					0.17	4.3		The Commandant
Saugeen, Ontario*	29.02	737.1	29.74	755.4	41	5.0	86	w.	10	4.5		5 cs	0			0	0	fair	
Stratford, Ontario	28.45	722.6	29.69	754.1	50.0	10.0	76	nw.	3	1.3		1 cs	0			0	0	blue sky	C. J. Macgregor, M A
Sydney, C. B*	29.74	755.4	29.80	756.9	55	12.8	90	w.	14	6.3		2 c	5 ks	w.	w.	0.54	13.7	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.29	744.0	29.66	753.4	52	11.1	90	calm	0	0			10 s		nw.	0.11	2.8	cloudy	Magnetic Observatory.
Windsor, N. S	29.75	755.6	29.84	757.9	55.0	12.8	87	nw.	6	2.7		0	2 k			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.65	727.7	29.69	754.1	53.1	11.7	89	w.	9	4.0		5 k	0	w.		0.04	1.0	showery	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.71	754.6	29.77	756.1	50	10.0	89	sw.	2	0.9		8 ck	0	w.		0	0	clear	Lt. F. E. Wilmot, R.N.
London, Ontario	28.84	732.5	29.73	755.1	51.7	10.9	92	e.			2	0	6 ks			0.07	1.8	d. clouds	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.31	769.9	30.34	770.6	62.0	16.7	88	wsw.	15.2	6.8		0	9 ks			0.370	9.4	cloudy	John Duthie
Springbok Fontein	27.95	709.9			63	17.2	33	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.26	641.5																	A. Guelny.
Tchang-kia-tchouang	29.68	753.8	29.79	756.6	81.3	27.4	44	sw.			1		0			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.95	760.6	29.97	761.3	63.9	17.7	93	ese.	8.9	4.0			2			0	0		M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.13	765.4	30.18	766.6	60.1	15.6	43	e.	9	4			0						Oversergent Fischer.
Fanoe	30.10	764.6	30.12	765.1	65.7	18.7	59	ssw.			2		1						Overloerer Lauridsen.
Godthaab, Greenland	29.62	752.3	29.66	753.4	36.7	2.6	85	sw.			2		9						S. Kleinschmidt.
Jacobshavn, Greenland	29.65	753.1	29.70	754.3	35.6	2.0		e.			2		7						
Stykkisholm, Iceland	29.43	747.5	29.47	748.6	34.9	1.6	87	ne.			7		10					snowing	A. O. Thorlacius.
Thorshavn	29.30	744.3	29.33	744.9	49.6	9.8	92	s.	22	10			10					raining	Overloerer Bergh.
Vestervig	30.01	762.2	30.10	764.5	62.8	17.1	65	ssw.			6		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.87	758.8			86.4	30.2		n.	0.9	0.4		0	0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.53	750.0	30.15	765.9	72.7	22.6	72	se.			1	2 c	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.58	751.3	30.13	765.3	69.1	20.6	71	se.			1	0	5 kn		nw.	0	0	cloudy	M. Nicot, Director.
Arras, Engineer School	29.76	755.9	30.01	762.3	67.1	19.5	73	nne.			4	ck	0	e.		0	0		M. Fénéon, Command't.
Avignon, Normal School	30.06	763.6	30.14	765.6	68.0	20	78	se.			1		10			0.346	8.8	covered	M. Giraud, Director.
Bar-sur-Seine	29.53	750.1	30.07	763.7	72.7	22.6	46	ese.			1	0	5 kn		sw.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.82	757.3	30.07	763.8	75.2	24	46	w.			1		8		sw.	0	0	very cloudy.	M. Frère Eugène Marié.
Besançon, Normal School	29.17	741.0	30.04	763.0	67.6	19.8	94	ssw.			2		10 n		sw.	0.020	0.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.86	758.5	30.11	764.9	70.2	21.2	55	nne.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.48	748.8	30.01	762.3	75.2	24	53	e.			1		k		e.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.93	760.1	30.17	766.3	61.5	16.4	75	nw.			2		9		nw.	0.020	0.5		M. de Kermarée, Dir.
Caen, Normal School	29.99	761.7	30.06	763.5	59.9	15.5	100	ssw.			1		8		ssw.	0	0	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.68	753.9	29.99	761.7	74.3	23.5	68	s.			1		5		s.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.56	750.8	30.05	763.3	75.9	24.4	59	ese.			2		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.75	730.3	30.08	763.9	67.1	19.5	76	w.			1		10					sprinkling	M. Alluard, Director.
Cluny, Normal School	29.26	743.3	30.10	764.4	61.5	16.4	91	ne.			1		10		ne.				M. de Villemontée, Dir.
Commercy, Normal School	29.23	742.4	30.06	763.4	71.8	22.1	34	e.			1		k	e.	e.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.62	701.5	30.10	764.6	62.6	17	70	s.			2	0	8 n			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.01	736.8	30.11	764.9	66.7	19.3	64	se.			1		10		e.	0.126	3.2		M. Kina, Director.
Grenoble. Normal School	29.35	745.6	30.11	764.8	67.3	19.6	60	nw.			2	ck	0	nw.		0	0		M. Ablard, Director.
Guéret, Normal School	28.54	724.9	30.08	764.0	72.5	22.5	56	sw.			1	2 ck	0		ne.	0	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.99	761.8	30.26	768.6	61.5	16.4	75	se.			3		5		se.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.53	750.0	30.08	764.1	68.4	20.2	64	w.			1		10 n			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.05	763.2	30.15	765.8	60.4	15.8	81	wsw.			2		10		sw.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.1	30.09	764.3	69.8	21.0	66	ssw.			1		10 n	s.	sw.	0.047	1.2	covered	M. André, Director.
Mans, Normal School	29.80	756.9	30.10	764.6	68.9	20.5	71	w.			1		5		nw.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.84	758.0	30.11	764.8	66.9	19.4	86	ssw.			1		10		sse.	0.016	0.4		M. Stephan, Director.
Montlouis	24.93	633.1	29.77	756.1	59.0	15.0	96	ne.	5.6	2.5			10			0.646	16.4		M. Cave for Dr. Fines.
Montpellier, Normal School	29.98	761.4	30.10	764.5	68.7	20.4	87	e.			2		5		e.	1.906	48.4	raining	M. Galzin, Director.
Nancy, Normal School	29.33	744.9	30.08	764.0	75.2	24.0	54	e.			1	ck	0			0	0		M. Hasse, Director.
Nantes, Observatory	29.96	761.0	30.12	765.1	69.4	20.8	50	n.			0.1		8 k; kn	wsw.	wnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.02	762.4	30.13	765.2	65.8	18.8	77	ne.	9.4	4.2			10		e.	0.398	10.1		Dr. Fines, Director.
Pic-du-Midi, Summit	21.33	541.9			40.3	4.6		se.			1		fg		se.	0.008	0.2	dense fog	M. Vaussenat, Director.
Privas, Normal School	29.05	737.8	30.11	764.9	71.6	22	66	s.			1		5 n	s.	s.	0.217	5.5	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.28	642.2			48.6	9.2	93	nw.			1		10			0.004	0.1	light rain	M. Alluard, Director.
Rochefort, Naval Obs'y	30.11	764.9	30.15	765.7	72.7	22.6	54	w.			2		2		w.	0.08	2.	¼ covered	Lt. E. Decante, Director
Roche-sur-Yon, N. School	29.85	758.1	30.06	763.5	67.5	19.7	60	w.			1				sw.	0	0		M. Brotier, Director.
Rodez, Normal School	28.03	711.9	30.12	765.1	67.1	19.5	70	calm			0		10		nw.	0.126	3.2	covered	M. Seger, Director.
Rouen, Normal School	30.00	761.9	30.04	763.1	73.6	23.1	50	w.			1		2	w.		0	0	slightly cl'dy	M. Mouillot, Dir.
Saint Maur, Observatory	29.91	759.7	30.07	763.8	77.2	25.1	38	nw.			1		3		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.44	747.8	30.17	766.2	72.0	22.2	75	n.			1		8	nw.		0	0	very cloudy	M. Baillard, Director.
Tours	29.91	759.7	30.09	764.2	74.8	23.8	42	wnw.			1		2	ssw.	s.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.59	751.5	30.08	764.0	74.8	23.8	40	w.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.00	762.1	30.15	765.9	68.0	20.0	61	w.	15.7	7.0			7 k			0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.67	728.1	30.06	763.5	73.8	23.2	53	s.			2		9	s.		0	0		Prof. Jnedt.
Bamberg	29.24	742.7	30.09	764.2	71.6	22.0	52	ne.			2	0	5 ks		ne.	0.079	2.0		Prof. Dr. Hoh.
Berlin	30.02	762.4	30.16	766.0	72.3	22.4	45	se.			1		0			0	0		Meteorological Institute
Breslau	29.68	753.8	30.21	767.4	66.9	19.4	43	e.			2		2	wnw.		0	0		Royal University Obs'y
Carlsruhe	29.63	752.6	30.08	763.9	74.1	23.4	47	ne.			3		2	nw.		0	0		Albert Senz.
Cassel	29.36	745.8	30.08	763.9	72.1	22.3	39	sw.			2		3	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.08	763.9	75.2	24.0	40	ne.			1		6			0	0		Physical Society.
Friedrichshafen	28.67	728.3	30.05	763.2	68.7	20.4	89	sw.			3		8	sw.		0.102	2.6	hazy	Wilhelm, Chief Tel.
Hamburg	30.08	763.9	30.17	766.2	67.1	19.5	53	se.			3		2	w.		0	0		E. Preller.
Kiel	30.13	765.3	30.15	765.7	64.4	18.0	43	calm			0		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.72	754.8	30.13	765.2	70.5	21.4	43	e.			2		2			0	0		H. Leppig, Asst.
Magdeburg	29.95	760.6	30.13	765.3	71.2	21.8	44	calm			0		0			0	0		Dr. Assmann.
Memel	30.13	765.3	30.18	766.5	51.6	10.9	77	nw.			4	1 c	0						Issermann.
Munich	28.29	718.6	30.16	766.1	61.9	16.6	76	calm			0		10	e.		0.217	5.5		Central Station.
Neufahrwasser	30.18	766.5	30.19	766.9	55.8	13.2	68	ne.			2		1			0	0		A. Lothes.
Neustadt, Palatinate	29.57	751.0	30.10	764.4	74.5	23.6	48	calm			0		5			0	0		Dicknether.
Stuttgart	29.13	740.0	30.00	761.9	72.0	22.2	55	e.			1		6	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.19	766.9	30.22	767.5	63.5	17.5	46	ene.			1	0	3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.73	755.1	30.10	764.4	83.3	28.5		s.			1.0		7			0	0	hazy	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.57	751.0	29.62	752.2	92.9	33.8	78	wnw.	26.0	11.6			2			0	0	d. clouds	
Deesa	29.18	741.1	29.64	752.7	95.3	35.2	42	ene.	3.0	1.3			0			0.19	4.8	blue sky	
Bombay	29.66	753.4	29.70	754.4	89.1	31.7	71	wnw.	13.1	5.8			0		sw.	0.02	0.5	d. clouds	
Poona, Yarrowda	27.84	707.0	29.64	752.7	91.2	32.9	40	w.	22.0	9.8			7			0	0	d. clouds	
Trichinopoly	29.44	747.7	29.71	754.7	90.6	32.6	63	s.	3.0	1.3			8	ne.	ne.	0	0	d. clouds	
Belgaum	27.18	690.3	29.72	754.8	72.8	22.7	69	ene.	4.0	1.8			8	s.		1.47	37.3	d clouds	
Lahore	28.96	735.6	29.69	754.1	87.0	30.6	50	n.	4.0	1.8			0			0	0	blue sky	
Roorkee	28.78	731.1	29.66	753.4	89.2	31.8	38	calm	0	0			1			0	0		
Agra	29.12	739.8	29.68	753.8	91.2	32.9	37	ne.	4.0	1.8			2		ne.	0	0	d. clouds	
Nagpur	28.58	725.9	29.58	751.4	95.2	35.1	35	n.	8.0	3.6			8		w.	0.08	2.0	d. clouds	
Jubbulpore	28.30	718.7	29.60	752.0	96.1	35.6	31	ne.	8.0	3.6			9		n.	0.02	0.5	d. clouds	
Lucknow	29.26	743.2	29.63	752.7	80.2	20.8	72	nne.	7.0	3.1			0			0	0	hazy	
Allahabad	29.34	745.4	29.65	753.0	93.7	34.3	41	n.	2.0	0.9			2			0	0	d. clouds	
Patna	29.42	747.2	29.60	751.8	98.7	37.1	29	nw.	2.9	1.3			4	nw.	nw.	0.03	0.8	d. clouds	
Hazaribagh	27.66	702.6	29.62	752.3	89.9	32.2	36	wsw.	6.8	3.0			8	wsw.		1.11	28.2	thnd'r storm	
Cuttack	29.58	751.4	29.66	753.4	92.1	33.4	56	w.	5.0	2.2			9		s.	0	0	d. clouds	
Calcutta, Alipore	29.64	752.9	29.66	753.4	87.0	30.6	75	sw.	7.0	3.1			7			0	0	d. clouds	
Dhubri	29.54	750.2	29.65	753.1	88.7	31.5	68	calm	1.4	0.6			3	ssw.		0	0	d. clouds	
Chittagong	29.62	752.2	29.70	754.5	80.7	27.1	84	s.	4.8	2.2			4			0	0	blue sky	
Sibsagar	29.34	745.2	29.67	753.6	85.2	29.6	79	se.	2.0	0.9			8	w.	w.	0.22	5.6	d. clouds	
Jeypore	28.28	718.2	29.69	754.1	88.7	31.5	39	calm	2.7	1.2			1			0.27	6.9	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.18	715.8	.....	.....	98.0	36.7	27	se.	4	1.8	.....	2 ck	3	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.93	760.2	82.0	27.8	66	wsw.	4.1	1.8	.....	.....	1	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.76	755.9	30.16	766.1	67.3	19.6	83	calm	0	0	.....	.....	10	.....	.....	0.173	4.4	.....	Prof. Giovanni Clodig.
Milan	29.64	752.9	30.15	765.8	70.5	21.4	62	s.	3.8	1.7	.....	.....	7	.....	.....	0.665	16.9	.....	Prof. G. V. Schiapparelli.
Padua	30.03	762.8	30.14	765.5	71.1	21.7	67	ene.	3.8	1.7	.....	.....	9	sw.	.....	0.016	0.4	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.3	30.11	764.9	69.4	20.8	68	ne.	3.1	1.4	.....	.....	8	ne.	.....	1.575	40.0	.....	Prof. F. F. Denza.
Genoa	29.95	760.7	30.14	765.6	68.9	20.5	62	sw.	4.9	2.2	.....	.....	10	sw.	.....	0.661	16.8	.....	Prof. G. M. Garibaldi.
Mondovi	28.24	717.4	30.13	765.2	66.2	19.0	65	ene.	.....	.....	2	.....	8	.....	.....	0.169	4.3	.....	Prof. D. C. Bruno.
Pesaro	30.09	764.3	30.14	765.5	68.7	20.4	81	se.	11.9	5.3	.....	.....	4	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.86	758.5	30.11	764.9	75.6	24.2	47	ssw.	.....	.....	2	.....	5	.....	.....	0.480	12.2	.....	Prof. Costantino Pittei.
Leghorn	29.98	761.5	30.06	763.6	72.9	22.7	67	s.	7.4	3.3	.....	.....	9	wsw.	.....	0.354	9.0	.....	Prof. P. Monte.
Rome	29.95	760.6	30.11	764.9	81.3	27.4	37	w.	16.8	7.5	.....	.....	5	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.89	759.2	30.14	765.5	80.2	26.8	42	w.	6.3	2.8	.....	.....	3	s.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.24	742.8	30.11	764.7	81.7	27.6	70	sw.	2.5	1.1	.....	.....	6	s.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.86	758.4	30.05	763.2	72.3	22.4	66	se.	.....	.....	4	.....	10	.....	.....	0.039	1.0	.....	Prof. A. Pacinotti.
Palermo	29.87	758.8	30.12	765.1	76.8	24.9	41	ne.	1.8	0.8	.....	.....	10	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.10	764.5	30.14	765.6	70.9	21.6	73	ne.	3.1	1.4	.....	.....	10	ssw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.61	752.1	30.11	764.9	81.0	27.2	37	sw.	0.7	0.3	.....	.....	9	wsw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.32	567.0	.....	.....	41.4	5.2	81	sw.	.....	.....	2	.....	10	.....	.....	0.150	3.8	covered	Prof. P. F. Denza.
Valdobbia	22.36	567.9	.....	.....	49.5	9.7	73	s.	.....	.....	2	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.86	758.5	29.89	759.4	57.0	13.9	91	s.	.....	.....	2	.....	10 ck	.....	.....	1.020	25.9	cloudy	H. Hattori.
Awomori	29.81	757.2	29.85	758.2	53.8	12.1	91	ne.	1.5	0.7	.....	.....	10ks;s	.....	.....	0.266	6.7	overcast	K. Ogawa.
Hamamatsu	29.90	759.4	29.93	760.1	64.2	17.9	85	calm	.....	.....	0	0	0	.....	.....	0	0	clear	
Kagoshima	30.00	762.1	30.02	762.4	63.0	17.2	72	nw.	.....	.....	2	0	1 s	.....	.....	0	0	clear	G. Miyanohaza.
Kioto	29.78	756.4	29.95	760.8	61.2	16.2	81	nne.	1.4	0.6	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Miasaka	29.96	761.0	29.99	761.7	66.0	18.9	83	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	K. Masusaki.
Miyako	29.78	756.4	29.89	759.2	53.0	11.7	87	e.	inap.	inap.	.....	.....	10 s	.....	.....	0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.81	757.2	30.01	762.2	63.0	17.2	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	29.87	758.7	29.91	759.7	56.7	13.7	89	sw.	1.4	0.6	.....	0	0	.....	.....	0.010	0.2	clear	M. Morita.
Nobiru	29.86	758.6	29.88	759.0	59.5	15.3	86	calm	0	0	.....	4 ck	6 s	w.	.....	0.010	0.3	overcast	H. Midzushina.
Numazu	29.89	759.3	29.93	760.2	57.2	14.0	97	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. Kaneda.
Osaka	29.93	760.2	29.95	760.6	65.9	18.8	73	ese.	4.0	1.8	.....	0	0	.....	.....	0	0	clear	H. Omura.
Tokei Obs'y, Yeddo	29.85	758.1	29.92	760.0	61.7	16.5	84	ese.	3.3	1.4	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	29.89	759.3	29.94	760.6	65.8	18.8	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	77.0	25.0	73	ne.	7.5	3.4	.....	0	3 k	.....	ne.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.69	601.7	29.91	759.7	61.7	16.5	87	ene.	inap.	inap.	.....	7 cs	0	sw.	.....	0.024	0.6	cloudy	Prof. Vicente Fernandez.
Leon	24.33	618.0	29.98	761.5	59.9	15.5	94	ssw.	2.0	0.9	.....	0	6 ck	.....	sw.	inap.	inap.	foggy	Prof. M. Leal.
Mazatlan	29.74	755.5	30.00	762.1	72.0	22.2	95	e.	1.6	0.8	.....	0	1 n	.....	se.	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	72	22.2	82	se.	7.5	3.4	.....	0	0	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.06	763.6	30.06	763.6	73.6	23.1	.....	ssw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Groningen	30.03	762.7	30.08	764.1	68.7	20.4	.....	s.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.05	763.3	30.05	763.3	66.2	19.0	.....	sw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.07	763.7	30.07	763.7	78.6	25.9	49	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	
Utrecht	30.06	763.5	30.11	764.7	75.0	23.9	55	sse.	.....	.....	3	.....	5	.....	.....	0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.6	.....	.....	79.9	26.6	79	ne.	0	0	.....	.....	3	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.82	757.4	29.88	759.0	62.6	17.0	43	s.	34	15	.....	.....	8	.....	.....	0	0	.....	
Brono	29.85	758.1	29.89	759.1	69.4	20.8	32	ssw.	.....	.....	4	.....	5	.....	.....	0	0	.....	
Christiania	29.91	759.7	30.05	763.3	63.9	17.7	42	ssw.	18	8	.....	.....	1	.....	.....	0	0	.....	
Gjesvær	30.04	763.0	30.06	763.6	56.8	13.8	.....	s.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.92	760.0	29.97	761.2	61.2	16.2	39	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	30.21	767.4	30.37	771.4	63.0	17.2	76	e.	16.8	7.5	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.10	739.2	30.07	763.8	77.5	25.3	45	wsw.	4.9	2.2	.....	.....	3	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.10	764.4	30.18	766.6	67.3	19.6	61	sw.	6.9	3.1	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.81	757.1	30.14	765.5	68.4	20.2	58	n.	7.4	3.3	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.27	768.8	30.34	770.0	60.8	16.0	87	ne.	14.3	6.4	.....	.....	10	.....	.....	0.224	5.7	.....	
Saint Paul de Loando	29.78	756.3	29.98	761.4	76.6	24.8	89	nw.	0.7	0.3	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	25.43	645.8	30.06	763.4	60.6	15.9	65	e.	1.8	0.8	.....	.....	7	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.00	736.7	30.04	763.1	70.5	21.4	22	ne.	2	1	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.73	755.2	29.75	755.7	61.5	16.4	71	nnw.	9	4	.....	.....	10	.....	.....	0.047	1.2	.....	Capt. Sselilwerstow.
Ashurada	30.11	764.9	30.02	762.5	75.4	24.1	76	w.	18	8	.....	.....	10 kn	.....	.....	0.020	0.5	.....	
Astrakhan	30.05	763.3	29.97	761.2	83.1	28.4	30	wsw.	11	5	.....	0	8 ks	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.08	763.9	30.03	762.7	73.9	23.3	48	n.	11	5	.....	0	1 ks	.....	.....	0	0	.....	
Barnaul	29.39	746.6	29.87	758.8	66.2	19.0	35	w.	18	8	.....	.....	10	.....	.....	inap.	inap.	.....	Meteorological Obs'y
Bielosersk	29.36	745.7	29.81	757.1	70.0	21.1	51	n.	7	3	.....	0	8 ks	.....	.....	0.004	0.1	.....	
Dorpat	29.75	755.7	29.99	761.7	66.9	19.4	69	wnw.	7	3	.....	0	8 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.98	736.1	29.89	759.1	80.8	27.1	34	s.	4	2	.....	7 ck	0	.....	.....	0	0	hazy	Meteorological Obs'y
Elisawetgrad	29.54	750.4	29.98	761.5	68.2	20.1	72	wsw.	2	1	.....	.....	10ks;n	.....	.....	inap.	inap.	.....	
Irkutsk	28.21	716.6	29.82	757.5	54.9	12.7	36	nnw.	.....	.....	2	.....	9	.....	.....	0	0	.....	
Kasalinsk	29.36	745.8	29.54	750.3	86.4	30.2	28	e.	4	2	.....	0.	0	.....	.....	.....	.....	.....	
Kasan	29.56	750.8	29.82	757.5	57.6	14.2	91	calm	0	0	.....	.....	10 n	.....	.....	0.217	5.5	.....	Observatory.
Kem	29.87	758.8	29.93	760.1	59.2	15.1	60	n.	31	14	.....	0	5 ks	.....	.....	0	0	.....	
Kertch	30.05	763.2	30.07	763.8	69.8	21.0	76	sse.	4	2	.....	0	8 n	.....	.....	0.035	0.9	.....	Lagorio & Saatyrea.
Kieff	29.28	743.6	29.89	759.2	66.6	19.2	63	nw.	18	8	.....	.....	10 n	.....	.....	0.016	0.4	raining	Observatory.
Koslov	29.37	745.9	29.89	759.1	67.5	19.7	64	w.	4	2	.....	.....	10 s	.....	.....	0.157	4.0	.....	
Liban	30.13	765.4	30.10	766.0	52.0	11.1	68	nw.	9	4	.....	.....	3	.....	.....	0	0	.....	E. Quaas.
Lugan	29.74	755.4	29.92	759.9	76.8	24.9	40	ssw.	9	4	.....	.....	9	.....	.....	0.488	12.4	.....	Meteorological Obs'y.
Moscow	29.33	744.9	29.78	756.5	65.3	18.5	70	nne.	1.1	0.5	.....	0	8 ks	.....	.....	0.024	0.6	.....	Meteorological Obs'y
Nikolaiev	29.93	760.2	30.00	762.1	64.9	18.3	96	s.	2	1	.....	.....	10 n	.....	.....	0.394	10.0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	29.54	750.2	29.68	753.8	87.3	30.7	19	sw.	7.8	3.5	.....	0	4 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.58	751.2	29.90	759.5	93.0	33.9	8	n.	1.1	0.5	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.00	751.9	29.79	756.7	70.7	21.5	46	n.	11	5	.....	0	4 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.58	751.3	30.08	763.9	54.7	12.6	69	wnw.	9	4	.....	0	7 k	.....	.....	0.150	3.8	.....	
Poti	30.06	763.4	30.09	764.2	63.3	17.4	92	sw.	4	2	.....	0	2 k	.....	.....	0	0	.....	
St. Petersburg	29.90	759.5	29.93	760.1	63.0	17.2	69	nw.	16	7	.....	ck	4 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.52	699.1	29.84	757.9	85.6	29.8	28	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.42	747.3	30.06	763.4	71.4	21.9	35	w	4	2	.....	.....	0	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.87	758.6	30.09	764.3	70.7	21.5	40	sw.	27	12	.....	3 cs	0	.....	.....	0.008	0.2	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.52	749.8	29.97	761.3	60.6	15.9	70	nnw.	18	8		cs	10kn			0.197	5.0		
Tashkend	28.15	715.1	29.71	754.5	86.7	30.4	35	calm	0	0		0	2 k			0	0		Terch, A. M.
Tiflis	28.65	727.6	30.02	762.4	73.4	23.0	49	nw.	9	4		0	6 ks			0	0		Physical Observatory.
Vernoe	27.35	694.6	29.79	756.7	61.2	16.2	58	nw.	2	1			10 n						
Viatka	29.19	741.5	29.80	757.0	63.0	17.2	80	s.	4	2			8			0	0		
Warsaw	29.74	755.5	30.16	766.1	62.1	16.7	38	n.	7	3		0	1 ks			inap.	inap.		Astronomical Obs'y.
Yeniseisk	29.71	754.6	30.00	762.1	37.4	3.0	55	w.	4	2			4			0.016	0.4		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.55	750.6	54	12.2	93	ssw.			6	10	5	sw.				rainy	J. Youngclauss.
North Unst			29.66	753.4				s.			6	0	7						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.03	762.8	30.13	765.4	67.6	19.8	74	se.	2.2	1.0		0	6			0.256	6.5		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.10	764.5	30.16	766.0	74.7	23.7	57	nw.	1.6	0.7		2	1	sw.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.13	689.2	30.06	763.5	68.5	20.3	53	calm	2.2	1.0		0	7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.4	30.03	762.8	76.3	24.6	40	se.	4.7	2.1		0	1			0	0		The Staff.
Murcia, Met. Obs'y	29.92	759.9	30.03	762.7	75.0	23.9	73	ene.	4.9	2.2		3	3	w.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.34	745.2	30.21	767.3	58.1	14.5	89	n.	7.4	3.3		8 n	4 k	ne.	ne.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.22	742.2	30.10	764.4	68.4	20.2	58	ne.	6.9	3.1			3			0	0		R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761.8	30.06	763.5	79.9	26.6	77	se.	4.5	2.0		1 c;cs	ck	w.		0	0	solar halo	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	756.8	29.85	758.2	82.8	28.2	76	s.	45.0	20.1		0	7 kn			0.138	3.5	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.06	763.6	30.16	766.1	76.5	24.7	54	e.	5.2	2.3		0	3		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.6	30.11	764.9	81.7	27.6	82	calm	0	0		0	1 k		se.	0.228	5.8	clear	Enrique Gades, Chf Eng'r
SWEDISH.																			
Haparanda	30.03	762.8	30.07	763.8	60.1	15.6	49	n.			4		0			0	0		
Umea	30.08	764.0	30.13	765.3	59.0	15.0	38	sw.			4		3			0	0		
Hernosand	30.05	763.2	30.10	764.5	60.8	16.0	52	se.			2		0			0	0		
Stockholm	29.94	760.4	30.11	764.9	69.1	20.6	30	wsw.			2		1			0	0		
Wisby	30.06	763.4	30.11	764.9	53.6	12.0	63	nw.			2		0			0	0		
Sub-series.																			
Upsala	29.98	761.6	30.07	763.8	68.9	20.5	32	wsw.	6.3	2.8			1	nnw.		0	0		S. G. Fineman.
SWISS.																			
Geneva	28.72	729.6	30.13	765.2	62.8	17.1	78	ssw.			4		10			0.004	0.1	covered	The Observatory.
TURKISH.																			
Constantinople			30.10	764.6	76.5	24.7	50	se.	4	2.0			4		sw.	0	0		The Observatory.
Valona			30.28	769.1	79.7	20.5		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.97	761.3	77.9	25.5	65	sw.			2		1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.95	684.5			78	25.6	43					1 k		sw.		0	0	clear	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.56	750.8	29.64	752.8	60	15.6	75	w.	1	0.4			10 s		s.	0.22	5.6	cloudy	J. O. Barnes.
Alpena, Michigan	29.14	740.1	29.80	756.9	43	6.1	60	nw.	10	4.5		0	0			0.02	0.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.97	634.2	29.79	756.7	43	6.1	63	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.44	697.0	30.28	769.1	37	2.8	72	sw.	10	4.5		0	3 s		W.	0.09	2.3	clear	B. O. Lenoir.
Atlanta, Georgia	28.86	733.0	30.03	762.7	66.0	18.9	84	sw.	12	5.4		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	29.75	755.6	29.76	755.9	61	16.1	78	s.	20	8.9		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.88	758.9	30.07	763.8	64.5	18.1	70	s.	1	0.4		1 c	0	w.		0	0	clear	John Healy.
Baltimore, Maryland	29.74	755.4	29.79	756.7	71	21.7	50	w.	9	4.0		4 k	0	sw.		0	0	fair	Geo. W. Felger.
Barnegat City, New Jersey	29.77	756.1	29.79	756.7	59.8	15.4	82	sw.	19	8.5		7cs;ck	hz.	sw.		0	0	fair	G. A. Hill.
Behring Id., Behring Sea	29.60	751.8	29.62	752.3	34.6	1.4		ne.	20	8.9			10 n			0.05	1.3	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.40	721.3	29.96	761.0	49.5	9.7	80	nw.	9	4.0		5 k	5 s	nw.	nw.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.55	699.8	30.34	770.6	35	1.7	72	calm	0	0		0	0			0.50	12.7	clear	S. Wheaton.
Billings, Montana	26.74	679.2	29.92	760.0	34	1.1	100	calm	0	0			10 s		n.	0.41	10.4	cloudy	T. Gibson.
Bismarck, Dakota	28.15	715.0	29.94	760.5	42	5.6	92	nw.	20	8.9			10 n		nw.	0.09	2.3	light rain	Cyrus Cramer.
Block Island, Rhode Island	29.81	757.2	29.84	757.9	59.5	15.3	78	sw.	21	9.4		7 cs	0	sw.		0	0	fair	J. T. Elker.
Boise City, Idaho	27.27	692.6	30.11	764.8	48	8.9	71	nw.	4	1.8		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.65	753.1	29.81	757.2	63.0	17.2	72	sw.	9	4.0		2 ck	6 s	sw.		0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.72	754.9	29.76	755.9	78.8	26.0	81	s.	7	3.1		4 c	3 s	w.	s.	0	0	fair	M. McCarty.
Buffalo, New York	28.91	734.3	29.65	753.1	50.7	10.4	95	nw.	10	4.5			10 n		nw.	0.48	12.2	light rain	W. Finn.
Buford, Fort, Dakota	28.17	715.5	30.15	765.8	37	2.8	82	w.	12	5.4		0	0			0.19	4.8	clear	F. A. Mellen.
Burlington, Vermont	29.40	746.7	29.69	754.1	54.0	12.2	100	calm	0	0			10 n		w.	0.16	4.1	heavy rain	D. N. Farnell.
Cairo, Illinois	29.54	750.3	29.94	760.5	57.6	14.2	83	ne.	10	4.5			10 s		ne.	0	0	threatening	W. H. Ray.
Cape Henry, Virginia	29.91	759.7	29.93	760.2	69	20.6	57	sw.	16	7.2		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.77	756.1	29.80	756.9	64.0	17.8	84	s.	25	11.2		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.16	740.7	29.84	757.9	42	5.6	100	se.			1		fg.		se.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	77	25.0	74	s.	4	1.8			10 s			0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.00	762.0	30.05	763.3	72.0	22.2	76	sw.	6	2.7		3 ck	0	sw.		0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.13	739.9	29.97	761.2	68.0	20.0	66	sw.	4	1.8		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.14	740.1	29.95	760.7	68.0	20.0	73	sw.	9	4.0		1 k	0	sw.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.00	609.6	29.87	758.7	33.3	0.7	92	n.	4	1.8			10 n			0.27	6.9	light snow	E. McGovern.
Chicago, Illinois	29.16	740.7	29.86	758.4	49.9	9.9	85	se.	7	3.1			10 s			0.03	0.8	cloudy	John Laurens.
Chincoteague, Virginia	29.85	758.2	29.87	758.7	64	17.8	78	s.	16	7.2		hz.	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.20	741.7	29.85	758.2	58.0	14.4	74	nw.	4	1.8			10 ks		w.	1.52	38.6	cloudy	L. Dunne.
Cleveland, Ohio	29.02	737.1	29.75	755.6	52	11.1	90	nw.	4	1.8			9 k		nw.	1.23	31.2	cloudy	J. B. Newlin.
Coleman City, Texas	27.90	708.6	29.70	754.4	69	20.6	84	s.	8	3.6		3 c	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	28.97	735.8	29.81	757.2	55	12.8	86	w.	8	3.6			10 s		w.	0.85	21.6	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.78	705.6	29.68	753.9	70.4	21.3	84	sw.	23	10.3		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.19	741.4	29.83	757.7	54	12.2	80	w.	4	1.8		2 cs	6 ks	w.	nw.	0.28	7.1	cloudy	R. R. Martin.
Davis, Fort, Texas	25.08	637.0	29.80	756.9	69	20.6	39	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.42	721.9	30.17	766.3	51	10.6	66	ne.	6	2.7		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.48	647.2	30.00	762.0	34	1.1	81	ne.	12	5.4		0	0			0.60	15.2	clear	F. Willson.
Delaware Breakwater, Del	29.79	756.7	29.81	757.2	68	20.0	70	s.	29	13.0		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.70	627.4	29.86	758.4	41.0	5.0	100	n.	8	3.6			10 n			0.09	2.3	light rain	F. M. Neal.
Des Moines, Iowa	29.01	736.8	29.90	759.4	53	11.7	72	n.	4	1.8		5 cs	3 s	w.		0.06	1.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.07	738.4	29.77	756.1	52.0	11.1	80	n.	12	5.4		0	4 k			0.17	4.3	fair	E. R. Brace.
Dodge City, Kansas	27.27	692.6	29.82	757.4	54	12.2	86	e.	12	5.4		6 ck	0	w.		0.23	5.8	clearing	J. H. Bryce.
Dubuque, Iowa	29.17	740.9	29.87	758.7	50	10.0	66	nw.	1	0.4		7 c	hz.	nw.		inap.	inap.	fair	J. Harvey Smith.
Duluth, Minnesota	29.16	740.7	29.91	759.7	57	13.9	45	calm	0	0		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	28.97	735.8	29.77	756.1	77.3	25.2	68	se.	5	2.2		1 c	0	sw.		0	0	clear	F. Belford.
Eagle Rock, Idaho	25.32	643.1	30.00	762.0	38	3.3	66	n.	8	3.6		1 k	0	nw.		0	0	clear	H. R. Boynton.
Eastport, Maine	29.77	756.1	29.84	757.9	57.0	13.9	74	sw.	2	0.9		2 ck	hz.	w.		0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	26.99	685.5	29.69	754.1	58	14.4	72	ne.	24	10.7		7 c	0	ne.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.16	664.5	29.80	756.9	70.0	21.1	13	nw.	6	2.7		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.99	736.3	29.71	754.6	50	10.0	93	n.	4	1.8			10 n			0.75	19.0	light rain	C. A. Shaw.
Escanaba, Michigan	29.22	742.2	29.88	758.9	49.5	9.7	61	nw.	1	0.4		2 cs	0			0	0	clear	George Heathcote.
Galveston, Texas	29.83	757.7	29.87	758.7	70	24.4	90	s.	10	4.5			10 ks		sw.	0	0	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.18	741.2	29.84	757.9	54.2	12.3	72	ne.	1	0.4		6 ck	1 ks	w.		0.01	0.3	fair	J. E. Mueller.
Grant, Fort, Arizona	25.18	639.6	29.79	756.7	60.1	15.6	35	n.	3	1.3		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.00	762.0	30.02	762.5	71	21.7	84	sw.	20	8.9		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	26.11	663.2	30.28	769.1	33	0.6	71	sw.	6	2.7		0	0			0.02	0.5	clear	N. C. Smith.
Huron, Dakota	28.59	726.2	29.94	760.5	43.2	6.2	70	n.	3	1.3		7 cs	0			0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.07	738.4	29.86	758.4	54.3	12.4	80	nw.	6	2.7		0	8 s		nw.	0.34	8.6	clearing	C. F. R. Wappenhans.
Indianola, Texas	29.78	756.4	29.81	757.2	76.1	24.5	84	s.	13	5.8		5 k	0	s.		0	0	fair	I. A. Reed.
Jacksboro, Texas	28.50	723.9	29.65	753.1	73	22.8	59	se.	10	4.5		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	30.05	763.3	30.09	764.3	72.5	22.5	79	s.	1	0.4		6 cs	0	w.		0	0	fair	J. W. Smith.

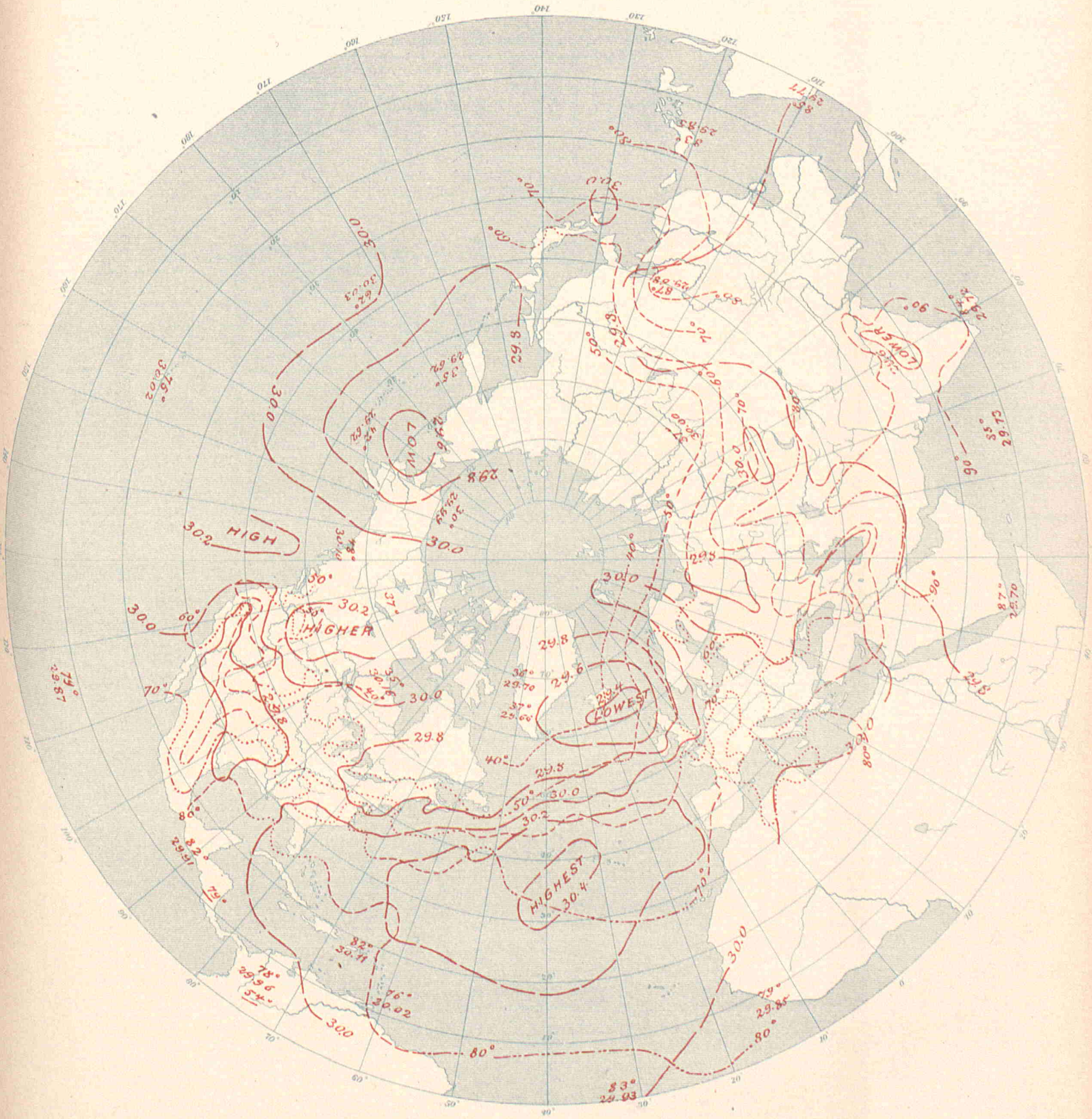
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.69	703.3	30.14	765.5	40	4.4	67	nw.	10	4.5	.....	8 k	0	.....	.....	0.41	10.4	cloudy	W. B. Lamar.
Keokuk, Iowa	29.22	742.2	29.88	758.9	54.0	12.2	86	w.	1	0.4	.....	4 k	0	w.	.....	0.62	15.7	fair	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	82.0	27.8	80	se.	5	2.2	.....	3 c	3 k	w.	se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.98	761.5	30.00	762.0	69	20.6	76	sw.	17	7.6	.....	0	hz.	.....	.....	0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	28.93	734.8	29.95	760.7	67	19.4	65	sw.	15	6.7	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.11	739.4	29.87	758.7	55	12.8	55	n	4	1.8	.....	3 c	2 s	.....	.....	0	0	fair	S. C. Emery.
Leavenworth, Kansas	29.04	737.6	29.92	760.0	56	13.3	80	ne.	4	1.8	.....	6 k	2 ks	w.	.....	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.40	746.7	30.24	768.1	46.5	8.1	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	29.53	750.0	29.84	757.9	67	19.4	78	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.57	751.1	29.97	761.2	59	15.0	87	w.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.28	743.7	29.84	757.9	57	13.9	80	nw.	6	2.7	.....	0	9 ks	.....	n.	0.35	8.9	cloudy	L. M Dey.
Lynchburg, Virginia	29.15	740.4	29.83	757.7	70	21.1	47	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.19	741.4	29.84	757.9	44.9	7.2	60	nw.	8	3.6	.....	7 c	0	.....	.....	0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.02	762.5	30.03	762.7	70.0	21.1	90	sw.	14	6.3	.....	0	0	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.81	655.6	30.22	767.6	33	0.6	45	nw.	13	5.8	.....	10 c	0	nw.	.....	0.07	1.8	cloudy	F. Burke.
Marquette, Michigan	29.14	740.1	29.86	758.4	54	12.2	55	n.	1	0.4	.....	6 c	0	.....	.....	0	0	fair	E. H. Thompson.
Memphis, Tennessee	29.55	750.6	29.88	758.9	70	21.1	84	sw.	8	3.6	.....	.....	10 ks	.....	sw.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.12	739.6	29.86	758.4	43	6.1	93	ne.	3	1.3	.....	.....	10s;fg	.....	ne	inap.	inap.	cloudy	W. Line.
Missoula, Fort, Montana	27.00	685.8	30.30	769.6	50	10.0	74	calm	0	0	.....	5 k	0	.....	.....	0	0	fair	J. H. Young.
Mobile, Alabama	29.93	760.2	29.97	761.2	75.6	24.2	87	s.	4	1.8	.....	2 cs	6 ks	.....	sw.	0.03	0.8	cloudy	C. A. Read.
Montgomery, Alabama	29.73	755.1	29.96	761.0	68	20.0	86	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.90	734.0	29.88	758.9	44	6.7	83	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.60	599.4	29.78	756.4	33.0	0.6	92	sw.	52	23.2	.....	.....	10n;fg	.....	sw.	0.16	4.1	light rain	S. W. Beall.
Nashville, Tennessee	29.30	744.2	29.87	758.7	69.5	20.8	73	sw.	5	2.2	.....	4 cs	0	w.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.65	753.1	29.77	756.1	63.0	17.2	78	s.	10	4.5	.....	6 ck	0	s.	.....	0	0	fair	J. H. Sherman.
New London, Connecticut	29.74	755.4	29.79	756.7	64	17.8	68	s.	16	7.2	.....	8 k	0	s.	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.89	759.2	29.94	760.5	73.0	22.8	94	se.	3	1.3	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. C. Smyth.
New York, New York	29.56	750.8	29.74	755.4	64	17.8	78	se.	19	8.5	.....	6 cs	0	s.	.....	0	0	fair	G. E. Franklin.
Norfolk, Virginia	29.89	759.2	29.92	760.0	69	20.6	66	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.01	686.0	29.88	758.9	50.6	10.3	84	e.	6	2.7	.....	.....	10 n	.....	w.	inap.	inap.	light rain	E. F. Brady.
Olympia, Washington T'y	30.07	763.8	30.11	764.8	49.0	9.4	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.77	730.7	29.93	760.2	55.2	12.9	76	calm	0	0	.....	.....	10 s	.....	ne.	0.15	3.8	cloudy	A. Pollak.
Oogloamie, Alaska	29.97	761.2	29.99	761.7	29.6	— 1.3	94	nne.	16	7.2	.....	3 c	2 s	wnw.	.....	0	0	fair	P. H. Ray.
Oswego, New York	29.26	743.2	29.59	751.6	53.0	11.7	93	e.	4	1.8	.....	.....	10 n	.....	e.	0.27	6.9	light rain	J. G. Linsley.
Palestine, Texas	29.26	743.2	29.81	757.2	73.0	22.8	84	s.	13	5.8	.....	.....	10 ks	.....	s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	29.97	761.2	30.00	762.0	73.3	22.9	94	s.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.64	752.8	29.74	755.4	70	21.1	78	s.	17	7.6	.....	0	8 s	.....	s.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.71	449.8	29.77	756.1	19	— 7.2	80	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pioche, Nevada	23.94	608.1	29.86	758.4	56.0	13.3	55	nw.	5	2.2	.....	3 cs	0	nw.	.....	0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	28.87	733.3	29.67	753.6	58.5	14.7	93	s.	4	1.8	.....	.....	10 n	.....	sw.	0.66	16.8	light rain	W. A. Reid.
Poplar River, Montana	28.00	711.2	30.12	765.0	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0.16	4.1	clear	W. D. Maxwell.
Port Huron, Michigan	29.08	738.6	29.76	755.9	47.0	8.3	77	n	14	6.3	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	29.76	755.9	29.81	757.2	56.5	13.6	74	sw.	1	0.4	.....	.....	10 s	.....	sw.	0.07	1.8	cloudy	W. W. Eichelberger
Portland, Oregon	29.98	761.5	30.05	763.3	58.0	14.4	64	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	73	22.8	82	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.68	626.9	29.78	756.4	54.8	12.7	41	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	29.82	757.4	29.85	758.2	58.5	14.7	81	s.	15	6.7	.....	0	9 s	.....	w.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.06	763.5	30.07	763.8	76	24.4	69	ne.	6	2.7	.....	10 ck	0	w.	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.42	747.3	29.77	756.1	68	20.0	70	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	28.95	735.3	29.61	752.1	48	8.9	100	nw.	13	5.8	.....	.....	10n;fg	.....	.....	0.62	15.7	heavy rain	E. W. McGann.
Roseburg, Oregon	29.42	747.3	29.96	761.0	45.3	7.4	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.72	754.9	29.80	756.9	58.5	14.7	81	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.35	745.5	29.94	760.5	53.7	12.1	100	n.	3	1.3	.....	4 cs	fg;sk	.....	.....	0.21	5.3	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.57	751.1	29.60	751.8	48	8.9	93	se.	8	3.6	.....	.....	10 s	.....	.....	0	0	threatening	A. P. Leavitt.
St. Paul, Minnesota	29.05	737.9	29.89	759.2	49.0	9.4	71	calm	0	0	.....	5 cs	hz.	nw.	.....	0	0	fair	P. F Lyons.
St. Vincent, Minnesota	29.04	737.6	29.90	759.4	42	5.6	87	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.58	649.7	29.90	759.4	52	11.1	33	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.09	738.9	29.79	756.7	73	22.8	82	s.	2	0.9	.....	0	6 s	.....	s.	0	0	fair	J. H. Davis.
San Diego, California	29.86	758.4	29.93	760.2	59.8	15.4	71	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	29.71	754.6	29.74	755.4	68.0	20.0	66	s.	22	9.8	.....	5 k	0	s.	.....	0	0	fair	B. A. Blundon.
Sanford, Florida	30.05	763.3	.....	.....	70	21.1	90	sw.	4	1.8	.....	.....	10 n	.....	sw.	0.06	1.5	light rain	J. B. Marbury.
San Francisco, California	29.80	756.9	29.87	758.7	55.5	13.1	90	s.	9	4.0	.....	.....	10 s	.....	sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.13	587.5	29.74	755.4	53.5	11.9	33	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.00	762.0	30.09	764.3	73	22.8	64	sw.	7	3.1	.....	0	hz.	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.66	677.2	30.26	768.6	33	0.6	81	w.	7	3.1	.....	0	0	.....	.....	0.47	11.9	clear	A. L. Mathews.
Shreveport, Louisiana	29.59	751.6	29.83	757.7	74.0	23.3	81	s.	1	0.4	.....	.....	10 s	.....	s.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.43	722.1	29.65	753.1	68	20.0	78	ne.	6	2.7	.....	2 k	0	sw.	.....	0	0	clear	W. M. Mattingly.
Sitka, Alaska	30.04	763.0	30.10	764.5	48.1	8.9	86	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.12	739.6	29.59	751.6	68.5	20.3	78	e.	24	10.7	.....	.....	10 s	.....	s.	0	0	threatening	J. B. Campbell.
Smithville North Carolina	30.01	762.2	30.05	763.3	73	22.8	71	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.29	718.6	30.34	770.6	51	10.6	55	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.23	742.4	29.90	759.4	51	10.6	90	calm	0	0	.....	.....	fg.	.....	.....	0.25	6.3	dense fog	T. B. Jennings.
Springfield, Missouri	28.44	722.4	29.86	758.4	57	13.9	93	ne.	6	2.7	.....	.....	10 n	.....	sw.	inap.	inap.	light rain	J. H. Bryce.
Starkville, Miss	29.45	748.0	29.92	760.0	70	21.1	78	s.	6	2.7	.....	3 c	0	.....	.....	0	0	clear	C. Dill.
Stevenson, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Schneider.
Stockton, Fort, Texas	26.79	680.5	29.80	756.9	67	19.4	61	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thatcher's Island, Mass	29.76	755.9	29.81	757.2	54.5	12.5	83	s.	4	1.8	.....	.....	10 s	.....	s.	0.12	3.0	cloudy	G. Liebmann.
Thomas, Camp, Arizona	27.09	688.1	29.76	755.9	60	15.6	46	w.	.....	.....	1	2 cs	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.08	738.6	29.76	755.9	57	13.9	80	nw.	4	1.8	.....	0	0	.....	.....	0.77	19.6	clear	A. Buell.
Tucson, Arizona	27.43	696.7	29.77	756.1	65	18.3	36	se.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.60	751.8	29.62	752.3	42	5.6	82	se.	14	6.3	.....	.....	10 s	.....	.....	0	0	threatening	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	58	14.4	39	se.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.64	752.8	29.90	759.4	69.5	20.8	90	se.	0	2.7	.....	0	4 s	.....	se.	0	0	fair	James Kenealy.
Visalia, California	29.39	746.5	29.76	755.9	64.0	17.8	71	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.54	623.3	30.02	762.5	33.0	0.6	98	nw.	7	3.1	.....	.....	10 n	.....	.....	0.81	20.6	light snow	T. M. Ambler.
Washington, D. C.	29.70	754.4	29.81	757.2	70.1	21.2	48	w.	6	2.7	.....	4 k	0	w.	.....	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	25.98	659.9	29.83	757.7	50	10.0	86	e.	10	4.5	.....	.....	10 s	.....	e.	0.04	1.0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.06	738.1	29.66	753.4	59.5	15.3	78	w.	3	1.3	.....	.....	10 ks	.....	w.	0.04	1.0	threatening	B. F. Hough.
Wilmington, N. Carolina	29.98	761.5	30.04	763.0	71	21.7	71	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.60	650.2	29.95	760.7	43	6.1	47	ne.	15	6.7	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.07	713.0	29.95	760.7	52	11.1	66	n.	5	2.2	.....	0	0	.....	.....	0.06	1.5	clear	J. H. Atfield.
Yuma, Arizona	29.54	750.3	29.69	754.1	66.5	19.2	56	sw.	1	0.4	.....	1 c	0	sw.	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8	.....	.....	54.0	12.2	82	calm	0	0	.....	.....	10 s	.....	e.	0.01	0.3	drizzling	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.07	763.8	.....	.....	75	n.	1	0.4	.....	9 cs	1 s	.....	.....	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	80	26.7	79	e.	.....	.....	2	4 c	6 k	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.40	746.7	29.96	761.0	78	25.6	89	calm	.....	.....	0	5 c	2 s	calm	calm	0.03	0.8	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	78.5	25.8	90	ne.	.....	.....	1	.....	9 ks	.....	ne.	0.16	4.1	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Walloe.
Santiago de Cuba, W. I	30.04	763.0	30.07	763.8	81	27.2	79	calm	0	0	.....	8 c	1 ks	.....	ne.	0	0	.....	R. Mason.
York Factory, B. A.	30.09	764.3	30.16	766.1	34.5	1.4	95	n.	9	4.0	.....	1 c	0	n	.....	0	0	.....	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandria, Cattaro, Austria	30.16	766.1	77	25.0	69	nnw.			1		2	wsw.						d. clouds.
H. M. S. Dido, St. Kitts, W.I	30.14	765.5	79	26.1		e.			1-3		10	e.						showery.
H. M. S. Himalaya, N. 40° 50′, W. 10° 01′	30.14	765.5	62	16.7	77	wnw.			4		6					3	nw.	d. clouds.
H. M. S. Iris, Port Said, Egypt	30.00	762.0	74	23.3	90	nnw.			3		2							d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.10	764.5	68	20.0	79	ene.			1		0							blue sky.
H M. S. Opal, N. 27° 50 W. 19° 46′	30.13	765.3	70	21.1	85	nne.			3		5	nne.				2	nne.	d. clouds.
H. M. S. Rocket, N. 49° 40′, W. 6° 10′	30.21	767.3	61	16.1	88	ssw.			2		3					7	wnw.	d. clouds.
H. M. S. Tyne, Carlisle Bay, Barbadoes, W.I	30.03	762.7	80	26.7	91	e.			2		4	e.						d. clouds
H. M. S. Tenedos, N. 47° 39′, W. 51° 58′	29.71	754.6	43	6.1	92	ssw.			4		8	sw.				4	ssw.	foggy.
U. S. Navy Yard, Pensacola, Fla	30.02	762.5	74	23.3	90	sw.	5	2.2			10		sw.	0	0			fair.
U. S. Navy Yard, Portsmouth, N. H*	29.75	755.6	56	13.3	87	se.	9	4.0			10		sw.					sprinkling.
U. S. S. Alliance, Norfolk, Va	29.93	760.2	68	20.0	74	ssw.			2		0			0	0			clear.
U. S. S. Colorado, New York, N Y	29.91?	759.7?	64	17.8	67	s.	9	4.0			8		s.	0	0			cloudy.
U. S. S. Franklin, Norfolk, Va	29.91	759.7	68	20.0	84	ssw.	12	5.4			0			0	0			clear.
U. S. S. Jamestown, Newport, R. I*†	29.90	759.4	57	13.9	75	s.			4		8							cloudy.
U. S. S. Kearsarge, New York, N.Y	29.76	755.9	65	18.3	89	s.			4		8		s.					cloudy.
U. S. S. Lancaster, Kronstadt, Russia	29.79	756.7	61	16.1	94	w.			2		2		calm			sm'h		fair.
U. S. S. Michigan, Erie, Pa	29.38	746.2	51	10.6	?	n.			1		10		n.					raining.
U. S. S. Minnesota, New York, N. Y	29.75	755.6	66	18.9	74	ssw.			4		10		sw.					misty.
U. S. S. New Hampshire, Newport, R. I	29.83	757.7	57	13.9	94	ssw.			4		10		sw.			mod.	sw.	cloudy.
U. S. S. Portsmouth, Newport, R.I	29.93	760.2	54	12.2	94	s.			3		8							cloudy.
U. S. S. Powhatan, Key West, Fla	30.04	763.0	81	27.2	91	e			1		5		e.					fair.
U. S. S. Quinnebaug, N. 7° 25′, W. 13° 10′	29.94	760.5	82	27.8	83	ne.			2		5		sw.			sm'h		fair.
U. S. S. Saratoga, New York, N. Y	29.79	756.7	64	17.8	83	ssw.			2-3		2		ssw.	0	0	sm'h	ssw.	clear.
U. S. S. St. Louis, League Island, Pa	29.78	756.4	69	20.6	70	sse.	28.6	12.8			8		s.	0	0			cloudy.
U. S. S. Swatara, Key West, Fla †	30.03	762.7	80	26.7	91	ese.			2		8		ese.	0	0	sm'h		fair.
U. S. S. Tennessee, New York, N Y	29.80	756.8	65	18.3	84	s.	12	5.4			8			0	0			cloudy.
U. S. S. Vandalia, New York, N. Y	29.72	754.9	65	18.3	84	sse.			4		8		sw.					fair.
U. S. S. Wabash, Boston, Mass	29.82	757.4	65	18.3	68	s.	5	2.2			10		sw.	0	0			cloudy.
U. S. S. Yantic, New York, N. Y	29.74	755.4	65	18.3	84	sse.			5		8							cloudy.
Commewyne, N. 47° 44′, W. 17° 41′	30.15	765.8	55.9	13.3	69	wsw.			4		10							overcast.
S. S. Inchkeith, N. 24° 05′, W. 38° 22′	30.27	768.8	73.4	23.0	69	ne.			4		4							d. clouds.
S. S. British Crown, N. 51° 06′, W. 11° 51′ †	30.04	763.0	63	17.2		w.			6		0			2 h'r	2 h'r	mod.	w.	clear.
S. S. British Prince, N. 46° 05′, W. 37° 02′ †	30.29	769.4	58	14.4		sw.			5		5?		wsw.	0	0	mod.	wsw.	clear?
S. S. Illinois, N. 39° 28′, W. 65° 49′ *	30.03	762.7	70	21.1		wnw.			2							sm'h	sw.	fine.
S. S. Ohio, Philadelphia, Pa †	29.74	755.4	68	20.0	84	ssw.			4		8		sw.	0	0			fair.
S. S Pennsylvania, Liverpool, Eng			62	16.7		w.			2		8		n.					fair.
S. S. Circassian, N. 54° 26′ W. 17° 11′	29.82	757.4	49	9.4	85	w.			5		4			0	0	5	w.	d. clouds.
S. S. Grecian, Glasgow, Scotland	29.78	756.4	60	15.6	76	ssw.			2		10		ssw.	12 h'r	12 h'r			cloudy.
S. S. Nova Scotian, N. 54° 59′, W. 12° 18′	29.61	752.1	50	10.0		w.			6		10		wnw.			long	w.	squally.
S. S. Manitoban, N. 46° 47′, W. 57° 00′	29.80	756.9	44	6.7	92	sw.			3		4		ssw.	0	0	sm'h	s.	clear
S. S. Alene, Kingston, Jamaica, W. I †	30.08	764.0	80	26.7		var.			2		0					sm'h	sw.	misty.
S. S. Ailsa, N. 28° 10′, W. 73° 55′ †	30.02	762.5	76	24.4		ne.			2									
S. S. Anchoria, N. 42° 24′, W. 53° 45′ †	30.14	765.5				nw.			2		6		nw.	4 h'r	4 h'r	sli't	con.	fine.
S. S. Assyria, N. 40° 42′ W. 63° 39′	30.06	763.5	57	13.9		w.			3		0			0	0	sli't	sw.	clear.
S. S. Bolivia, N. 43° 04′, W. 53° 37′ *†	30.16	766.1	58	14.4		sw.			3		10		w.	0	0	long	w.	hazy.
S. S. Dorian, N. 48° 10′, W. 30° 00′	30.18	766.6	56	13.3		w.			6		10		nw.	sh'rs	sh'rs	mod.	nnw.	hazy.
S. S. Devonia, N. 51° 10′, W. 31° 26′*†	29.90	759.4	52	11.1		w.			3		9		w.			h'vy	wsw.	cloudy.
S. S. Furnesia, N. 41° 12′, W. 53° 15′ †	30.10	764.5	69	20.6	95	wsw.			4		3		w.	8 h'r	8 h'r	sm'h		clear.
S. S. Llandaff City, N. 40° 36′ W. 71° 20′ †	29.72	754.9	55	12.8		ssw.			6		7		ssw.	0	0	mod.	sw.	cloudy.
S. S. Marathon, N. 42° 28′, E. 16° 02′	30.20	767.1	78	25.6		se.			1		6		se.	0	0	sm'h	se.	cloudy.
S. S. Pavonia, N. 40° 28′, W. 71° 08′	29.84	757.9	55	12.8	87	sw.			4		0			0	0	sm'h		clear
S. S. Colina, N. 46° 58′, W. 59° 13′ †	29.60	751.8				nw.			2		8		w.	0	0	sm'h	s.	foggy.
S. S. Ville de Marseilles, N 29° 26′, W. 49° 10′			73	22.8		ne.			3		4		ne.	0	0	long	ene.	fair.
S. S. Abyssinia, N. 40° 27′, W. 67° 50′	29.96	761.0	56	13.3	94	sw.			4		0			0	0	mod.	sw.	hazy.
S. S. Wisconsin, N. 48° 51′ W. 28° 52′			55	12.8		wsw.			1		10		wsw.	0	0	mod.	wsw.	foggy.
S. S. Wyoming, N. 50° 27′, W. 22° 36′	29.87	758.7	54	12.2		wsw.			6		7		wsw.			h'vy	w.	drizzling.
S. S. Bohemia, N. 46° 35′, W. 38° 14′						wsw.			5		7		wsw.	0	0	long	nw.	cloudy.
S. S. Gellert, Hamburg, Germany	30.22	767.6	78	25.6	78	se.			2		1		e.	0	0			clear.
S. S. Rugia, Hamburg, Germany	30.01?	762.2?	78	25.6		e.			3		0			0	0			hazy.
S. S. Silesia, St. Thomas, W.I	30.03	762.7	81	27.2		e.			2		2		e.	0	0			clear.
S. S. Westphalia. N. 50° 34′, W. 3° 41′	30.19	766.8	67	19.4	89	s.			1-2					0	0	sm'h	w.	fair.
S. S. City of Berlin, N. 48° 22′, W. 36° 32′	30.07	763.8	59	15.0	88	w.			6		6?		w.	3 h'r	3 h'r	h'vy	w.	overcast?
S. S. City of Paris, N. 42° 39′, W. 45° 47′						sw.			6				s.	0	0	mod.		clear.
S. S. Virginian, N. 44° 38′, W. 39° 17′ *	30.30	769.6	63	17.2		sw.			5		0			0	0	sm'h		clear.
S. S. Archimedes, N. 24° 41′, W 61° 01′	30.17	766.3				ese.			4		3		ne.	¼ h'r	¼ h'r	light	ene.	clear.
S. S. Colorado, Galveston, Texas†	29.85	758.2	75	23.9		sse.			3		8		ssw.	0	0			cloudy.
S. S. Rio Grande, N. 26° 47′, W. 86° 53′ *†	29.95	760.7	83	28.3		s.			1		8		sw.	0	0	mod.	sse.	cloudy.
S. S. San Marcos, N. 36° 05′, W. 74° 44′	29.85	758.2	69	20.6		sw.			4		0							clear.
S. S. Chalmette, N. 32° 15′, W. 79° 33′†	30.14	765.5	72	22.2		ssw.			4		0			0	0	sm'h		clear.
S. S. New York, N. 24° 35′, W. 83° 15′			80	26.7		ese.			3		3		ese.			sm'h		clear.
S. S. Lone Star, N. 25° 42′, W. 84° 44′†	30.05	763.3	78	25.6		se.			3		5		se.	8 h'r	8 h'r	sm'h		fair.
S. S. Alleghany, Boston, Mass †	29.83	757.7	63	17.2		sw.			4		4		sw.	0	0			fair.
S. S. Archimede, Marseilles, France†	30.18	765.6	70	21.1	66	sw.			2		6		s.	0	0			fair.
S. S. City of Merida, N. 23° 00′, W. 81° 23′ †	30.07	763.8	82.4	28.0		se.			2		1		e.	0	0	light	se.	clear.
S. S. City of Washington, Vera Cruz, Mexico †	30.03	762.7	80	26.7		s.			1		5		s.	0	0	sm'h		fair.
S. S. Denmark, London, Eng†	30.01	762.2	70	21.1		ssw.			5		5		ssw.	0	0			fair.
S. S. Egypt, N. 46° 03′, W. 40° 10′*†	30.26	768.6	52	11.1		sw.			4		0			0	0	mod.	wsw.	clear.
S. S. Helvetia, N. 51° 13′, W. 15° 13′	30.03	762.7	60	15.6	82	w.			5		2		w.	1 h'r	1 h'r	r'gh	w.	clear.
S. S. Holland, N. 48° 31′, W. 18° 11′	30.06	763 5	52	11.1		wsw.			4		8		sw.	0	0	mod.	wsw.	cloudy.
S. S. Donau, N. 49° 46′, W. 6° 27′	30.13	765.3				wsw.			2		8		wsw.	2 h'r	2 h'r	sm'h	wsw.	cloudy.
S. S. Elbe, Bremerhaven, Germany	30.15	765.8	67	19.4	60	calm			0		0			0	0			clear.
S. S. Fulda, N. 49° 11′, W. 23° 15′	29.97	761.2	55	12.8	93	wsw.			6		10		wsw.	7 h'r	7 h'r	mod.	nw.	drizzling.
S S. Hohenzollern, N. 41° 00′, W. 51° 39′ *	30.19	766.8	70.7	21.5		sw.			6		9		sw.	0	0	high	sw.	cloudy.
S. S. Hohenstaufen, N. 41° 53′ W. 50° 25′	30.07	763.8				s.			6		9		s.	0	0	mod.	ssw.	cloudy.
S. S. Main, N. 47° 36′, W. 30° 28′	30.14	765.5	57.2	14.0		wnw.			6		6		wnw.	1 h'r	1 h'r	r'gh	w.	squally.
S. S. Neckar, N. 40° 29′, W. 56° 20′	30.22	767.6	68.5	20.3	84	ssw.			4		0			0	0	mod.	sw.	clear.
S. S. Ohio, N. 44° 22′, W. 25° 04′	30.36	771.1				wnw.			4		4		w.	1 h'r	1 h'r	mod.	nw.	fair.
S. S. Weser, N. 41° 03′, W. 51° 02′	30.21	767.3				ssw.			6		5		ssw.	0	0	r'gh	ssw.	fair.
S. S. Orinoco, New York, N. Y*†	29.74	755.4	72	22.2		sw.			6		8		sw.					stormy.
S. S. Colon, N. 23° 16′, W. 74° 14′ †	30.13	765.3	81	27.2		ene.			4		3		e.	0	0	small	e.	clear.
S. S. Muriel, N. 34° 25′, W. 70° 58′	30.05	763.3	69	20.6		s.			3		0			0	0	mod.	s.	clear.
S. S. City of Augusta, Savannah, Ga †	30.06	763.5				wnw.			4		6		nw.	0	0			fair.
S. S. Belgenland, N. 40° 38′, W. 61° 10′†	30.20	767.1	66	18.9	89	sw.			4		0			2 h'r	2 h'r	mod.		clear.
S. S. Nederland, N. 48° 00′, W. 18° 41′			53	11.7		wsw.			5		10		wsw.	2 h'r	2 h'r	long	w.	overcast.
S. S. Rhynland, N. 41° 20′, W. 55° 30′	30.20	767.1	68	20.0	?	s.			7		8		s.	8 h'r	8 h'r	high	s.	cloudy.
S. S. Pennland, New York, N. Y			66	18.9	74	ssw.			2		1		ssw.	0	0			clear.
S. S. Waesland, Antwerp, Belgium	30.08	764.0	76	24.4		ssw.			3		5		ssw.	0	0			fair.
S. S. P. Caland, N. 41° 00′, W. 52° 15′	30.26	768.6	72	22.2	88	ssw.			5		10		sw.			4	sw.	hazy.
S. S. Leerdam, N. 43° 24′, W. 40° 58′	30.28	769.1	67	19.4	89	sw.			3		1					sm'h		clear.
S. S. W. A Scholten, off Beachy Head, Eng	30.08	764.0	56.1	13.4	90	sw.			2		5		wsw.	0	0	sm'h	w.	fair
S. S. Caracas, N. 22° 15′, W. 67° 44′†	30.22	767.6	81	27.2	83	ese.			5		2		se.	0	0	mod.	se.	clear
S. S. Claudius, N. 46° 50′, W. 28° 40′ †	30.30	769.6	58.2	14.6	87	w.			5		10		nw.	0	0	r'gh	var.	overcast.
S. S. Valencia, Puerto Cabello, Venezuela†	30.18	766.6	82	27.8	79	calm			0		2		calm	3 h'r	3 h'r			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. S. State of Florida, N. 43° 47' W. 43° 50'	30.42	772.7	72	22.2		wsw.			5		4		w.	0	0	mod.	w.	fair.
S. S. State of Nebraska, N 40° 44', W. 67° 05' *†	29.94	760.5	49	9.4		ssw.			3		0			0	0	sm'h		clear.
S. S. State of Nevada, N. 53° 36', W. 20° 37'†	29.93	760.2	51	10.6		wsw.			0				wsw.			h'vy	wsw.	showery
S. S. Romano, Hull, Eng†	29.96	761.0	54	12.2		sw.			3									fair.
S. S. Dominion, N. 54° 40°, W. 13° 12' *†	29.67	753.6	52	11.1		wnw.			5		10		wnw.			r'gh	wnw	cloudy.
S. S. Oregon, N. 46° 25' W. 54° 06'	29.77	756.1	40	4.4		wsw.			3		10					mod.	sw.	foggy.
S. S. Lake Manitoba, Quebec, Quebec	29.65	753.1	47	8.3		wsw.			2		3		w.	0	0	sm'h		clear.
S. S. Olbers, Lisbon, Portugal†	30.14	765.5	71	21.7		n.								0	0	sm'h		
S. S. Daniel Steinmann, Antwerp, Belgium†	30.14	765.5	76	24.4		s.			2		2		s.	0	0			clear.
S. S. Norman, Philadelphia, Pa	29.81	757.2				se			5		10		se.	0	0			cloudy.
S. S. Saxon, Philadelphia, Pa †	29.80	756.9				ssw.			5		5			0	0			fair.
S. S. Germanic, N. 41° 45' W. 50° 59'			62	16.7		sw.			5		5		ssw.	0	0	mod.	ssw.	fair.
S. S. Iowa, N. 50° 35', W. 18° 25'†	30.03	762.7	52	11.1		wsw.			4		9		wsw.	6 h'r	6 h'r	r'gh	w.	cloudy.
S. S. Antonio Lopez, Santander, Spain	30.19	766.8	63	17.2	78	ne.			3		2			0	0			clear.
Schr. Abbie H. Gheen, Jacksonville, Fla†	30.10	764.5	72	22.2		s.			1					0	0			cloudy.
Bg. Abbie Clifford, N. 40° 32', W. 69° 14'†	29.91	759.7	53	11.7		s.			3		1			0	0	sm'h		clear.
Bk. Alpha, N. 55° 40', W. 11° 10'*†..	29.70	754.4	52	11.1		w.			7		8		nw.	1 h'r	1 h'r	h'vy	w.	squally.
Bg. Alcira, Maracaybo, Venezuela	29.97	761.2	84	28.9		ne.			3		4		ene.	0	0			clear.
Bk. Adelaide, N. 3° 41', W. 28° 05'*†	30.01	762.2	82	27.8		w.			0		10		sw.	5 h'r	5 h'r	mod.	s.	heavy rain.
Schr. Annie R. Lewis, Maunabo, Porto Rico, W. I†	30.22	767.6	84	28.9		e.			1		4		ese.	sh'rs	sh'rs	mod.	ese.	clear.
Schr. Arthur Burton, St. Simon's Island Ga*†	30.00	762.0				wsw.			1		1		wsw.	0	0			fine.
Bk. Aureola, N. 31° 10', W. 59° 08†..	30.25	768.3	82	27.8		se.			2		5		ne.	0	0			fair.
Bk. Achille F, N. 2° 30', W. 25° —'†..	29.97	761.2	79	26.1	86	ssw.			3		0		se.	8 h'r	8 h'r	mod.	s.	fine.
Bk. Arda, South Joggings, N. S.						sw.			4		fg.		wsw.	4 h'r	4 h'r	sm'h		foggy.
Bk. Abla, N. 54° 34', W. 49° 25'*†	29.60	751.7	40.5	4.7		nne.			0									
Bg. Annie R. Storer, N. 38° 50', W. 75° 04'†	29.88	758.9				s.			4		2		w.	0	0	sm'h	s.	fair.
Bgt. Achsah, N. 26° 04', W. 66° 49'†	30.17	766.3	80	26.7		e.			2		2		ese.	0	0	sm'h	ese.	clear.
S. S. Burswell, N. 36° 02', W. 6° 08'†*	30.14	765.5	70	24.4		ese.			3		0			0	0	light	e.	clear.
Bg. Belle of the Bay, N. 27° 10'. W. 89° 10'†	30.04	763.0				se.			5		10		s.	24 h'r	24 h'r	chop	s.	raining.
Bk. Champion, N. 33° 50'. W. 73° 06'			80	26.7	78	sw.			1		8		nw.	0	0	short	wnw.	cloudy.
Sch. G. R. Flint, N. 32° 30' W. 69° 10'†	30.18	766.6	71	21.7		sw			1		8		w.	5 h'r	5 h'r	mod.	sw.	cloudy.
Bk. Childwall, N. 35° 12', W. 32° 36'			65	18.3		nne.			4		6		ne.	0	0	light	ne.	fine.
Schr. Clotilde, N. 23° 47', W. 88° 01' *†	29.95	760.7	63	28.3		se.			3		2		se.	0	0	sm'h		clear.
S Criterion, N. 57° 08', W. 16° 52'*†	29.50	749.3				nw.			8		8		nw.	rain	rain	h'vy	wsw.	squally.
S. David Stewart, N. 28° 46', W. 42° 00'†	30.30	769.6				ene.			1		2?		e.	6 h'r	6 h'r	mod.	ese	cloudy?
S. S. D. J. Foley, Kingston, Jamaica, W. I *†	30.05	763.3	82	27.8	83	ne.			1		3		e.	0	0			clear.
Bkt. David A. Preston, Navassa, W. I.			84	28.9		e.			4		5		e.	0	0	long	se.	
Schr. Edith R. Seward, Vivorilla Cays C. A†	30.08	764.0	87	30.6		e.			3		4		e.	0	0	sm'h	e.	clear.
S. E. J. Spicer, N. 53° 25', W. 5° 50'.	29.88	758.9	53	11.7	93	wsw.			5		10		wsw.	0	0	mod.	wsw.	overcast.
Bk. E. D. Bigelow, N. 48° 30', W. 23° 18'*†	30.00	762.0	59	15.0		wsw.			7		10		wsw.			long	wsw.	light rain.
U. S. Fish Com. S. S. Fish Hawk, Glymont, Md†	29.95	760.7	63	17.2	89	wsw.			3		6		sw.	0	0			fair.
H. P. M. S. Rio Lima, Porto Praya, Cape Verde Id			75.2	24.0	77	ne.			3		0					3		blue sky.
Schr. F. E. McDonald, N. 36° 05', W. 75° 10'†..	30.00	762.0				ssw.			4					0	0			clear.
Bk. George Davis, N. 50° 58', W. 24° 10'						e.			5					6 h'r	6 h'r		n.	foggy.
Bk. Gronsvaer, N. 27° 33', W. 66° 18'†	30.17	766.3	79.5	26.4							3		se.	0	0	sm'h		fair.
Bk. Galeon, N. 20° 49' W. 90° 33'†	29.97	761.2	78	25.6		e.			2		0			0	0	sm'h	se.	blue sky
S Hedwig, N. 38° 19', W. 15° 37'	30.30	769.5	64.4	18.0	90	ene.			1		7		var.	0	0	2	nw.	
Bk. Hattie G. McFarland, Port Royal, S. C			70	21.1		sw.			1		2		sw.	0	0			fine.
Schr. Isabel Alberto, New York, N. Y†	29.76	755.9				ssw.			4		5		w.	light	light			fair.
Bk. Cato, N. 66° 40', E. 11° 50'*†	29.91	759.7				sse.			3		4		sw.	0	0	long	sw.	fair.
Bk. Johanne, N. 36° 32', W. 2° 37'*†	30.10	764.5	72	22.2		sw.			1		3		wsw.	0	0	sm'h		fine.
Schr. John L. Thomas, N. 30° 40', W. 69° 40'*†	30.24	768.1				s.			2		2		ssw.	4 h'r	4 h'r	light	s.	clear.
Bg. John Wesley, N. 35° 00', W. 62° 35' *†	30.15	765.8				w.			1		2		wsw.	3 h'r	3 h'r	cross	s.w.	clear.
Schr. Jennie N. Huddell, N. 35° 15', W. 75° 22'†	30.08	764.0	73	22.8		sw.			1		2		s.	0	0	chop	ssw.	clear.
Bkt. Josephine, N. 35° 30', W. 71° 44'†	30.07	763.8	74	23.3	76	sw.			3		0			0	0	mod.	s.	hazy.
Light House Tender Laurel, Pensacola Bay, Fla†	30.00	762.0	76	24.4		se.			1		9		w	11 h'r	11 h'r			cloudy.
Bg. Lilian, N. 12° 40', W. 60° 04'†	30.03	762.7	84	28.9		ene.			3		7		ene.	0	0			squally.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.90	761.0	83	28.3		s.			1		0			0	0			clear.
Bk. Milo, N. 48° 34', W. 23° 04'†	30.00	762.0				w.			7-8				w.			high	var.	rain & fog.
S. S. Madrid, Pt. Porman, Spain†	30.15	765.8	67	19.4	84	ssw.			4		0			0	0	sm'h		clear.
Schr. Minnie A. Bonsall, Hoboken, N. J†	29.78	759.4	72	22.2		sse.			1		10		sse.	0	0			cloudy
Bkt. Kryolith, N. 59° 26', W 47° 43'*†.	29.80	756.9				n.			1		8			snow	snow			misty.
Bk. Matilda C. Smith, N. 42° 15', W. 34° 40'†	30.46	773.7				wnw.			2		2		w.	0	0	mod.	nnw.	fine.
Bgt. Myrtle, N. 22° 31', W. 57° 55' *†	30.30	769.6				ene.			4		1		ene.	0	0			
Bk. Matthias, N. 45° 27', W. 22° 54'*†	30.44	773.2	59	15.0		wsw.			4		4		w.	0	0	long	w.	hazy.
Schr. Maggie Abbott, N. 37° 50', W. 71° 33' †	29.93	760.2				ssw.			4		0			0	0	mod.	s.	clear.
S. S. Mendoza, N. 35° 31', W. 73° 50' †..	30.10	764.5				wsw.			4				wsw.	0	0	sm'h	w.	clear.
Schr. Maud Briggs, Barbadoes, W. I*†	30.11	764.8				ene.			3		0		ene.	0	0			fair.
Bk. National Eagle, N. 38° 46', W. 68° 45'						s.			5		1		ssw.	0	0	sm'h		clear.
Bk. Ottawa, N. 45° 23', W. 22° 10'*	30.19	766.8	59	15.0		wsw.			0		5		w.	0	0	long	nw.	fair.
S. Paramita, N. 1° 37', W. 32° 25' †	29.93	760.2	83	28.3		var.			1		2		se.	0	0	small	sse.	clear.
S. S. Raleigh, off Bird Rock, W. I†	30.17	766.3	80	26.7		ese.			3		0					sm'h		fine.
Bg. Rising Sun, N. 32° 40', W. 62° 35'*†	30.30	769.0	74	23.3		ssw.			1		9		ssw.	0	0	mod.	s.	cloudy.
Bk. Rosalie, Saint John, Antigua, W. I*†	30.09	764.3				e.			3				e.	0	0			clear.
Bk. Rosino, N. 40° 03', W. 53° 26'			71	21.7		s.			7		9		s.	0	0	mod.	s.	
Bk. Scud, N. 27° 17', W. 53° 50'*†	30.28	769.1	81	27.2		sse.			1		1			0	0	sm'h		clear.
Bk. Southern Belle, N. 31° 55', W. 21° —'†	30.17	766.3	68	20.0		ene.			3		5		e.	0	0	mod.	n.	fair.
S. St. Francis, N. 48° 40', W. 19° 45'			54	12.2	61	sw.			7		10		sw.	6 h'r	6 h'r	h'vy	wnw	foggy.
Bgt. Sunlight, N. 27° 00', W. 66° 41'						sse.			3		5		sse.	½ h'r	½ h'r	sm'h		fair.
Bg. Teneriffe, N. 35° 58', W. 74° 00' *	29.91	759.7				ssw.			5		0					sm'h		
Bk. Tuck Sing, off Cienfuegos Light, Cuba, W. I*†	29.99	761.7				calm			0		0			0	0	sm'h		fine.
Bk. Usko, N. 47° 22', W. 14° 09 *	30.06	763.5	57	13.9		nw.			2		5		nw.	0	0	long	wnw.	fair.
Bkt. Wandering Jew, N. 27° 48', W. 74° 40'†	30.10	764.5	70	24.4		sse.			4		5		se.	0	0	sm'h		fair.
Schr. Wm. Wilcox, N. 37° 17', W. 74° 45'*†	30.00	762.0				s.			5		0			0	0	mod	s.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.56	776.2	52.2	11.2	93	n.			3		0							blue sky.
H. M. S. Boadicea, Cape Town, Cape Colony, Africa	30.34	770.6	60	15.6	94	sse.			3		4							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata	30.38	771.6	53.2	11.8	89	n.			3									blue sky.
H. M. S. Thetis, S. 1° 18', W. 20° 45'	30.01	762.2	79	26.1	82	sse.			2		1					2	sse.	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*..	30.40	772.1	49	9.4	85	n.	7	3.1			2		calm	0	0	sm'h		clear.
U. S. S. Galena, Montevideo, Uruguay*..	30.40	772.1	54	12.2	67	nnw.			2		0					sm'h		clear.
May Hulse, S. 35° 20', W. 29° 20'	30.16	766.1	52	11.1	73	s.			7		5							rain & hail.
S. S. Jerome, Para, Brazil *	29.85	758.2	80	26.7		ne.			2		4		se.	0	0			fair.
S. S. Hevelius, S. 22° —', W. 40° —'†	30.37	771.4	69	20.6		sse			0		4		sse.	2 h'r	2 h'r	high	sw.	fair.
S. S. Ptolemy, S. 6° 45', W. 33° 30'	30.01	762.2	78.5	25.8	91	sse.			5	0	9 s	wsw.		1.00	25.4	2	ese.	misty.
Bk. Alpheus Marshall, S. 30° 38', E. 10° 30' *†	30.29	769.4				e.			5		9		e.	1 h'r	1 h'r			clearing.
S. Dynomene, S. 34° 46', E. 18° 50'	30.37	771.4	61	16.1	94	sse.			1		5			light	light	sl't	sw.	misty.
Bk. Horace Scudder, S. 8° 15', W. 14° 00' *†	30.08	764.0	80	26.7		sse.			5		8		sse.	½ h'r	½ h'r	long	sse.	cloudy.
S. Mt. Washington, S. 14° 48' W. 35° 50'*†	30.40	772.1	78	25.6	73	sse.			8		7		sse.	9 h'r	9 h'r	h'vy	sse.	fair.
S. Minnie N. Gerow, S. 30° 05', E. 3° 54'			58	14.4		nnw.			4		10		n.	0	0	sm'h	se.	overcast.
S. Wm. McGilvery, S. 11° 10', W. 35° 01'*†	30.10	764.5	81	27.2	83	se.			4		5		se.	0	0	h'vy	ssw.	fair.
S. S. Hermod, S. 7° 49', W. 33° 58'†	30.04	763.0	80.0	30.0		se.			0		0		se.	3 h'r	3 h'r	long	se.	fair.
H. P. M. S. Duque de Tercelra, Benguela, Benguela	29.99	761.7	71.6	22.0	88	w			3		1			0	0	2		blue sky.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 2—South Atlantic.—Continued.																		
H.P.M.S.Rainha de Portugal, S. 4° 36′, E. 11° 05′	30.04	762.9	79.9	26.6	79	se.			4		5		se.	0	0	2	s.	d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Woosung, China	29.91	759.7	72	22.2	80	calm			0		1	sw.						blue sky.
H. M. S. Champion, N. 1° 43′, E. 110° 32′	29.77	756.1	85	29.4	96	calm			0		6							d. clouds.
H. M. S. Sappho, N. 13° 54′, W. 90° 49′	29.91	759.7	82	27.8	83	n.			2		5	nw.				6	s.	d. clouds.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 21′	29.94	760.5	58.5	14.7	94	calm			0		0							blue sky.
H. M. S. Magpie, N. 5° 17′, E. 115° 16′	29.89	759.2	80.6	27.0	87	calm			0		7							d. clouds.
H. M. S. Swiftsure, Esquimalt, V. Id	30.05	763.3	53	11.7	80	wsw.			4		4	wsw.						d clouds.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.94	760.5	69	20.6	80	calm			0		1							blue sky
H.P.M.S. Tamega, Macao, China	29.87	758.6	85.1	29.5	85	sw.			3		3			0	0			d. clouds.
U. S. Naval Hospital, Yokohama. Japan	29.94	760.5	62.5	16.9	91	calm			0		0			sll't	sll't			clear.
U. S. S. Adams, Juman, Alaska †	30.23	767.8	48	8.9	70	calm			0		8					sm'h		cloudy.
U. S. S. Hartford, Hilo, Sandwich Id*	30.02	762.5	75	23.9	72	n.			0–1		10			0	0	sm'h		cloudy.
U. S. S. Monocacy, Roze Island, Corea	29.94	760.5	63	17.2	89	calm			0		0							misty.
U. S. S. Palos, Hong Kong, China	29.74	755.4	82	27.8	87	s.			1		8		sse.					cloudy.
U. S. S. Richmond, Hong Kong, China*	29.74	755.4	84	28.9	91	ssw.			1		5		s.	0	0			fair.
S. S. Coptic, N 30° 48′ E. 130° 20	29.91	759.7	69.0	20.6	75	wnw.			3		0			0	0			clear.
S. S. Oregon, N. 38° 07′ W. 123° 26′ †	29.90	759.4	52	11.1	93	sse.			2									misty.
S. S. Willamette, Seattle, Wash. Ter*†	30.21	767.3	55	12.8	87	calm			0		0			0	0			clear.
S. S. Ancon, San Pedro, Cal†	29.92	760.0	60	15.6	71	w.			1		10							foggy.
S. S. G. W. Elder, Race Rocks, Wash. Ter †	30.14	765.5	52	11.1	73	n.			2		0							clear.
S. S. City of Pekin, N 42° 47′, W. 134° 45′†	30.44	773.2	54	12.2	74	n.			3		0			0	0	light	n.	clear.
S. E. B. Sutton, N. 38° 10′, W. 123° 40†	29.95	760.7	52	11.1	100	sse.			1		fg.			0	0	mod.	nw.	foggy.
S. S. City of Rio de Janeiro, N. 36° 55′, E. 173° 30′†	30.03	762.7	62	16.7	94	wsw.			4		10			rain	rain	mod.	wsw.	raining.
S. S. Granada, Panama Bay, Panama †	29.89	759.2	78	25.6	91	nw.			1		2			0	0			clear
S. S. San Blas, N. 13° 26′, W. 89° 20′			82	27.8		calm			0		9		s.	3 h'r	3 h'r	small	s.	
S. S. San José, N. 30° 25′, W. 117° 22′ †	29.98	761.5	59	15.0		nw.			3		n		nw.	0	0	long	nw.	overcast.
S. S. Benledi. Kobe, Japan *	29.89	759.2	67	19.4	69	calm			0		8		sw.	0	0	sm'h		hazy.
Bk. Bore, Macassar, Celebes Id†	30.26	768.6	86	30.0		e.			1									
S. David Crocket, N. 7° 38′, W. 115° 38′*	29.87	758.7	79	26.1	86	ne.			2		8			10 h'r	10 h'r	long	nnw.	showery.
S. Grecian, N. 32° 40′, E. 137° 20′†	29.96	761.0	74	23.3	76	w.			3		1		nw.	0	0	sm'h		clear.
S. S. Malabar, Strait of Malacca						var.					8		se.	4 h'r	3 h'r	sm'h		raining.
S. S. Radnorshire N. 23° 40′, E. 117° 58′ *†	29.86	758.4				ne.			6		10		ne.	0	0	mod	ne.	cloudy.
S. Titan, N. 42° 29′, W. 135° 08′*†	30.36	771.1	60	15.6	94	nw.			1		3		nw.	0	0	sm'h	e.	clear.
Bk. Xenia, Woosung river, China			63	17.2		sw.			4		0			0	0			clear.
S. S. Columbia, N. 45° 05′, W. 124° 09′ †	29.98	761.5	54	12.2	87	n			4		1		calm			h'vy	nw.	clear.
U. S. S. Ranger, Acapulco, Mexico	29.97	761.2	82	27.8	83	n.			2		2			0	0	sm'h		fair.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			58	14.4	76	sw.			2		7	s.						showery.
H. M. S. Espiegle, S. 7° 54′, E. 179° 11′	29.89	759.2	82	27.8	79	ese.			4		5					2	ese.	d. clouds.
H. M. S. Kingfisher, S. 29° 30′, W. 134° 10′	30.14	765.5	68	20.0		nne.			3		4					4	e.	d. clouds.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.99	761.7	57	13.9		ese.			1							1	ese.	d. clouds
H. M. S. Nelson, S. 18° 08′, E. 178° 26′	29.75	755.6	77	25.0	82	ene.			2		1	w.				sm'h		blue sky
U. S. S. Iroquois, Valparaiso, Chili	30.13	765.3	54	12.2	93	se.			2		10					sm'h		overcast.
U. S. S. Lackawanna, S. 27° 43′, W. 103° 40′*	30.27	768.8	65	18.3	58	ne.			4		8		sse.			sm'h	se.	cloudy
U. S. S. Onward, Callao. Peru*†	30.10	764.5	63	17.2	89	e.			1		10		e.					cloudy.
U. S. S. Pensacola. Callao, Peru*	29.92	760.0	62	16.7	94	ne.	1	0.4			10		se.	0	0			misty.
U. S. S. Wachusetts, S. 20° 59′, W. 166° 14′	29.95	760.7	73	22.8	81	ese.			1		0					sm'h		clear.
S. S. Australia, S. 34° 08′, E. 166° 26′	29.86	758.4	66	18.9	68	w.			6		3		w.	0	0	long	w.	cloudy.
S. S. City of Sydney, Sydney, N. S. W *†	29.89	759.2	57	13.9	63	wsw.			2		5 kn		wsw.	0	0			fair.
S. S. Zealandia, S. 3° 14′, W. 167° 12′	29.91	759.7	80	26.7	96	ene.			4		0					sm'h		clear.
S. Storm King, S. 57° 02′ W. 76° 15′ *†	29.57	751.1				nw.			7		9		nw.	0	0	high	n.	cloudy.
H. M. S. Lark, S. 10° 03′, E. 156° 23′	29.90	759.4	81.3	27.4	83	se.			1		1					2	se.	showery.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.60	751.8	87	30.6		s.			2		4	se.						d. clouds
H. M. S. Furyalus, Trincomalee, Ceylon	29.72	754.9	84	28.9	83	sw.			2		4	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.92	760.0	81	27.2	91	sse.			2		1	sse.					sse.	blue sky.
H. M. S. Tourmaline, N. 12° 20′, E. 66° 15′	29.73	755.1	85	29.4	83	wsw.			4		10	sw.				4	sw.	thnd'r st'rm
H. M. S. Woodlark, Bussorah, Turkey in Asia	29.66	753.4	96	35.6	41	nw.			3		0							misty.
U. S. S. Enterprise, Durban, Natal*	29.91	759.7	68	20.0	69	sw.			6		5		w.			mod.	ne.	fair.
U. S. S. Juniata, Bombay, India	29.78	756.4	89	31.7	96	sw.			2		5		sw.	0	0	sm'h		fair.
S. S. Salerno, Bombay, India			88	31.1		sw.			3		3		sw.	12 minutes		mod.		
S. Annie M. Law, S. 31° 11′ E. 34° 12′*†	29.90	759.4	67	19.4		ssw.			4		5		ssw.	9 h'r	9 h'r	high	ssw.	fair.
Bk. Ceylon, S. 34° 56′, E. 20° 52′ *†	30.41	772.4	68	20.0	79	w.			3		8		wsw.	driz'l	driz'l	mod.	sw.	cloudy.
Bk. Pilgrim, Samarang, Java, Oceania *†	29.95	760.7				se.			1		1		se.	0	0			clear
S. S. Foscolo, N. 20° 11′ E. 38° 32′ †	29.74	755.4				nnw.			6		0			0	0	high	nnw.	hazy.
S. S. Gordon Castle, S. 10° 43′, E. 139° 55′*	29.89	759.2	80.0	26.7	87	se.			5–6		3		se.			4	se.	clear.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 30, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ALGERIAN.																			
Nemours			30.14	765.6	74.5	23.6	50	sw.			3		0			0	0	clear	Malaterre.
Algiers			30.11	764.8	71.6	22.0	66	nnw.			3		0			0.020	0.5	clear	Thève.
La Calle			30.06	763.5	69.4	20.8	78	nw.			2		4			0.768	19.5	cloudy	Fonfrède.
Tunis			30.05	763.2															Jacques.
Saida			30.17	766.2															Pérès.
Tebessa			30.05	763.3	68.4	20.2	85	n.			3		3			0.984	25.0	pretty fair	St. Martin.
Geriville					67.1	19.5	43	n.			1		0			0	0	clear	Forfert.
Laghouat			30.10	764.5	76.6	24.8	27	nw.			2		0			0	0	clear	Abraham.
Biskra			30.03	762.7	82.4	28.0	24	calm			0		0			0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			29.71	754.6	59.0	15.0	57	ne.	22	9.8			10 k			0.010	0.3	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.85	758.2	29.94	760.5	46.0	7.8	89	n.	11	4.9			1			0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.48	748.7	30.00	762.0	79.5	26.4	44	ne.			2		4			0.150	3.8		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.32	744.8	30.07	753.8	68.0	20.0	55	ene.	6.3	2.8			3			0	0		Dr. Wierzbiski
Eperies	29.17	740.9	30.02	762.4	73.4	23.0	35	n.			3	cs	5s			c	0		Julius Mikolik.
Gratz	28.81	731.7	30.01	762.3	71.8	22.1	72	sw.			2		5			0.287	7.3	lightning	Andreas Rospini.
Hermannstadt	28.61	726.6	29.97	761.2	77.7	25.4	54	n.			3		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.6	30.02	762.6	69.1	20.6	75	e.			1	8 c	k			0	0		The Staff.
Lemberg	29.11	739.4	30.08	763.9	66.6	19.2	55	ne.			2		9			0	0		Dr. T. Stanecki.
Neu Schmecks	26.74	679.2	29.99	761.7	67.6	19.8	55	calm			0		4			0	0		Dr. V. von Szontagh.
Pola	29.98	761.4	30.08	764.1	69.3	20.7	75	w.			2		10			0.028	0.7		I. R. Hydrographic Office.
Szathmar	29.56	750.9	30.02	762.4	76.3	24.6	55	w.			2		5			0	0		Joseph Midlinszky, S. J.
Szegedin	29.73	755.1	30.00	761.9	78.8	26.0		w.			1		7			0	0		Karl Stancel.
Trieste	29.98	761.4	30.08	763.9	73.8	23.2	68	nw.			1		9			0.031	0.8		Royal Academy.
Vienna	29.38	746.2	30.08	763.9	70.3	21.3	68	calm			0		0			0	0		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.99	761.7	30.09	764.3	54.6	12.6	44	sse.	15	6.7			6			blank	blank	d. clouds	W. Boswell.
Armagh, Observatory	29.92	760.0	30.15	765.8	55.9	13.3	62	sw.	6	2.7			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.18	766.6	58.5	14.7	54	wnw.	12	5.4			3					blue sky	John Hartnup.
Bolton, Sharples	29.63	752.6	30.17	766.3	57.0	13.9	58	wsw.	8	3.6			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.76	755.9	30.16	766.1	56.7	13.7	56	sw.			1		9			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	83	28.3	75	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	30.09	764.3	30.19	766.8	66.0	18.9	92	n.			0.4		2					d. clouds	John McLaren.
Chatham, School M. E.	30.07	763.8	30.20	767.1	64.0	17.8	55	n.			1		5					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	30.02	762.5	30.25	768.3	59.0	15.0	62	sw.			2		8					d. clouds	The Staff.
Fort Napier, Natal	27.89	708.4	30.11	764.8	70.5	21.4	34	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.71	754.6	29.94	760.5	78.0	25.6	86	w.			1		4					d. clouds	Sergt. C. E. Keane.
Galway, Queen's College	30.03	762.7	30.06	763.5	55	12.8	68	w.			2		8			0.06	1.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.07	763.8	30.12	765.0	71.8	22.1	93	e.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.92	760.0	30.12	765.0	59.9	15.5	27	w.			3		6					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	30.02	762.5	30.19	766.8	60.1	15.6	60	sse.			1		4					d. clouds	The Staff.
Guernsey	29.98	761.5	30.28	769.1	58.0	14.4	75	nnw.			1		4					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.17	766.3	30.20	767.1	59.9	15.5	48	n.	4	1.8			4					d. clouds	The Staff.
Leicester, Museum	29.92	760.0	30.18	766.6	60.0	15.6	49	w.			1		7					d. clouds	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.03	762.7	72.0	22.2	98	ne.					4					d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.10	764.5	30.15	765.8	85.0	29.4	66	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.67	753.6	30.19	766.8	59.5	15.3	54	w.			1		8					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.97	761.2	30.20	767.1	61.9	16.6	99	wnw.			1		5					d. clouds	The Staff.
Plymouth	30.16	766.1	30.24	768.1	60.9	16.1	69	sw.			3		6					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.95	760.7	30.05	763.3	50.1	10.1	72						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.98	761.5	30.04	763.0	76.6	24.8	66	w.			1		5					d. clouds	W. H. Lyne.
Sheffield	29.91	759.7	30.18	766.6	61.4	16.3	61	nw.			1		7			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.13	765.3	30.16	766.1	61.0	16.1	77	w.			3		3			0.025	0.6	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.19	766.8	57.1	13.9	56	w.	9	4.0			4					d. clouds	W. C. Carlisle.
Truro, Royal Institution	30.20	767.1	30.30	769.6	65	18.3	54	sw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.04	763.0	30.07	763.8	53.9	12.2	94	se.	27	12.1			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.70	754.4	30.10	764.5	78.0	25.6	49	se.	0.6	0.3		7 c		w.		0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.79	756.7	29.83	757.7	54	12.2	76	w.	11	4.9		0	2 s		w.	0.120	3.0	fair	H. J. Cundall, C. E
Chatham, N. B*	29.78	756.4	29.84	757.9	56	13.3	69	sw.	9	4.0		5 ck	2 k	sw.	sw.	0.17	4.3	fair	G. A. Blair.
Cornwall, Ontario	29.90	759.4	30.09	764.3	50.0	10.0	67	w.			1	0	1 s			0.195	5.0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.77	756.1	29.82	757.4	51.5	10.8		w.			3	0	0			0.580	14.7	blue sky	H. A. Johnson.
Father Point, Quebec*	29.86	758.4	29.88	758.9	44	6.7	83	n.	20	8.9		2 k	0	calm		0.02	0.5	clear	J. McWilliams.
Fort Garry, Manitoba*	29.21	741.9	30.07	763.8	34	1.1	85	n.	5	2.2		0	0			0.07	1.8	clear	James Stewart.
Fredericton, N. B.	29.89	759.2	29.96	761.0	52.0	11.1	73	nw.	11	4.9			10 s			0.130	3.3	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.96	735.6	30.07	763.8	50.0	10.0	86	se.	2	0.9		1 c	0	se.		0	0	fine	Jas. Grant.
Halifax, N. S*	29.81	757.2	29.94	760.5	58	14.4	75	n.	8	3.6		0	0			0.206	5.2	clear	A. Allison.
Hamilton, Ontario	29.65	753.1	30.04	763.0	49.2	9.6	90	sw.			2	4 ck	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.78	756.4	30.11	764.8	50	10.0	77	n.	6	2.7		10 cs	0	w.		0.16	4.1	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.77	756.1	29.81	757.2	59.0	15.0	88	w.			4		10 n			0.23	5.8	overcast	C. H. Rigby.
Montreal, Quebec*	29.89	759.2	30.10	764.5	56	13.3	57	w.	6	2.7		0	0			0.25	6.3	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.86	758.4	30.10	764.5	50.0	10.0	80	nw.			1	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.38	746.2	30.07	763.8	47	8.3	42	e.	5	2.2		2 cs	0	w.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.36	745.7	30.09	764.3	55.7	13.2		w.			1	4 c	0			0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.41	747.0	30.10	764.5	49	9.4	75	calm	0	0		8 c	0	sw.		0.01	0.3	fair	H Morgan.
Port Stanley, Ontario	29.42	747.3	30.06	763.5	51	10.6	83	e.	10	4.5		8 ck	0	sw.		0	0	cloudy	M. Payne.
Quebec, Quebec*	29.64	752.8	30.00	762.0	51	10.6	74	w.	12	5.4		0	0			0.26	6.6	clear	Capt. Ashe, R. N
Rockliffe, Ontario*	29.64	752.8	30.10	764.5	42	5.6	76	calm	0	0		5 c	0	w.		0	0	fair	W. H. McIntyre.
St. Andrews, N. B.	29.89	759.2	29.94	760.5	55	12.8	70	nw.	8	3.6		0	0			0.26	6.6	clear	
St. John, N. B	29.78	756.4	29.94	760.5	54.0	12.2	80	w.	8	3.6		0	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F.	29.89	759.2	30.14	765.5	58	14.4	76	s.			2	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F.			29.92	760.0	49.3	9.6		sw.			2					0.16	4.1		The Commandant
Saugeen, Ontario*	29.31	744.5	30.02	762.5	51	10.6	66	se.	8	3.6		8 cs	0			0	0	fair	
Stratford, Ontario	28.81	731.8	30.09	764.3	51.1	10.6	74	calm	0	0		5 c;cs	0			0	c	blue sky	G. J. Macgregor, M A
Sydney, C. B*	29.73	755.1	29.79	756.7	53	11.7	93	sw.	25	11.2		0	5 ks		sw.	0.34	8.6	clearing	T. C. Hill, C. E.
Toronto, Ontario*	29.73	755.1	30.11	764.8	50	10.0	66	calm	0	0		5 ck	0	sw.		0	0	fair	Magnetic Observatory.
Windsor, N. S	29.82	757.4	29.91	759.7	55.0	12.8	74	n.	8	3.6		0	0			0	0	blue sky	Prof. W. R. Butler, M.A
Woodstock, Ontario	29.04	737.6	30.10	764.5	50.6	10.3	86	n.	3	3.1		7 k	0	w.		0.52	13.2	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.96	761.0	30.02	762.5	49	9.4	86	w.	6	2.7		0	0			0	0	clear	Lt. F. E. Wilmot, R.N.
London, Ontario	29.16	740.7	30.06	763.5	50.7	10.4	79	e.			1	0	8 ks			0	0	d. clouds	E. B. Reed.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.18	766.6	30.21	767.3	65.0	18.3	80	e.	8.7	3.9		0	0			0.160	4.1	clear	John Duthie
Springbok Fontein	27.91	708.9			65	18.3	26	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.21	640.3																	A. Gueluy.
Tchang-kia-tchouang	29.80	757.0	29.91	759.8	67.8	19.9	51	e.			1		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.87	758.6	29.89	759.3	66.9	19.4	85	se.	19.0	8.5			10 n			0.004	0.1	raining	M. Marc Dechevrens, S.
DANISH.																			
Copenhagen	30.06	763.5	30.11	764.7	67.1	19.5	39	se.	16	7			0						Oversergent Fischer.
Fanoe	30.05	763.3	30.07	763.8	59.2	15.1	78	wsw.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.84	758.0	29.89	759.1	32.9	0.5	83	ssw.			4		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.70	754.4	29.75	755.6	36.3	2.4		calm			0		7						
Stykkisholm, Iceland	29.81	757.2	29.85	758.3	35.6	2.0	77	ne.			2		3						A. O. Thorlacius.
Thorshavn	29.82	757.4	29.84	758.0	49.5	9.7	83	sw.	21.3	9.5			5						Overloerer Bergh.
Vestervig	29.98	761.5	30.07	763.8	54.7	12.6	87	nw.			2		10						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.82	757.5			89.1	31.7		n.	2.7	1.2		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.65	753.0	30.28	769.2	68.0	20.0	83	wnw.			4	0	8 n		w.	0	0	very cloudy	M. Labroue, Director.
Alençon, Normal School	29.71	754.6	30.26	768.6	61.9	16.6	64	ne.			1	0	5 kn		sw.	0	0	cloudy	M. Nicot, Director.
Arras, Engineer School	29.87	758.6	30.12	765.1	63.3	17.4	50	nne.			2		k		e.	0	0		M. Fénéon, Command't.
Avignon, Normal School	30.00	762.1	30.08	764.1	78.8	26	57	nw.			1		8		nw.	0	0	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.60	751.8	30.15	765.7	62.8	17.1	73	nnw.			2		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.95	760.7	30.21	767.4	63.7	17.6	59	nw.			1		10		wnw.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.19	741.3	30.06	763.6	61.5	16.4	94	sw.			1		10 n		sw.	0.83	21.	raining	M. Gobin, Director.
Bordeaux, Observatory	29.97	761.3	30.23	767.9	64.0	17.8	72	nnw.			1		10		w.	0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.62	752.3	30.16	766.0	66.2	19	67	wnw.			2		10 n		wnw.	0.992	25.2	covered	M. Malet, Director.
Brest, Naval Observatory	30.04	763.1	30.29	769.3	64.8	18.2	69	sw.			2		8		sw.	0.512	13.0		M. de Kermarée, Dir.
Caen, Normal School	30.15	765.8	30.22	767.6	54.7	12.6	98	nw.			1		5		nw.	0.020	0.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.71	754.7	30.02	762.6	65.5	18.6	83	w.			2		10	sw.	w.	0.051	1.3	covered	M. Jadot, Director.
Charleville, Normal School	29.62	752.3	30.13	765.2	59.0	15	80	n.			2		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.78	731.1	30.11	764.7	67.3	19.6	57	wnw.			1		8			0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.28	743.6	30.10	764.6	72.3	22.4	49	nnw.			1		3		nnw.	0.772	19.6		M. de Villemontée, Dir.
Commercy, Normal School	29.24	742.6	30.08	763.9	69.3	20.7	58	nw.			1		kn	nw.	nw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.58	700.6	30.05	763.3	67.1	19.5	58	s.			1	0	5 k		n.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.97	735.8	30.07	763.7	69.1	20.6	71	ssw.			2		7			0	0		M. Kina, Director.
Grenoble. Normal School	29.31	744.5	30.02	762.5	72.7	22.6	60	nnw.			3		ckn		nnw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.62	727.0	30.19	766.8	61.7	16.5	66	sw.			3	0	5 kn		ne.	0.138	3.5	cloudy	M. Delorme, Dir.
Lamballe, Normal School	30.11	764.9	30.38	771.7	63.5	17.5	49	sw.			1		2		sw.	0.04	1.	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.65	753.0	30.21	767.3	65.3	18.5	58	w.			1		10 n			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.17	766.4	30.28	769.0	60.4	15.8	62	sw.			2		8	nw.	sw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.08	738.5	30.10	764.5	73.0	22.8	54	nnw.			1		5 k			0.047	1.2	cloudy	M. André, Director.
Mans, Normal School	29.93	760.2	30.24	768.0	60.6	15.9	74	nne.			1		8		nw.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.82	757.3	30.08	764.0	74.8	23.8	71	wsw.			1		7		ene.	0.264	6.7		M. Stephan, Director.
Montlouis	25.03	635.8	29.87	758.8	56.3	13.5	64	n.	5.6	2.5			5	nw.		0.126	3.2		M. Cave for Dr. Fines.
Montpellier, Normal School	29.94	760.4	30.06	763.5	78.8	26	64	ne.			2					0.08	2.	raining	M. Galzin, Director.
Nancy, Normal School	29.34	745.2	30.11	764.9	60.4	15.8	85	w.			1		kn			0.780	19.8		M. Hasse, Director.
Nantes, Observatory	30.12	765.1	30.28	769.2	60.6	15.9	54	ese.			0–1	ck	10 n; kn		nne.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.03	762.8	30.14	765.6	70.3	21.3	57	nw.	18.6	8.3			2		n.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.39	543.3			42.8	6.0		w.			1		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.05	737.8	30.08	763.9	74.8	23.8	69	s.			1		2 n	s.	s.	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.32	643.0			48.0	8.9	94	wnw.			3		10 k		wnw.	0.331	8.4	covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.18	766.6	30.21	767.4	64.0	17.8	82	n.			1		10		n.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.98	761.6	30.20	767.0	61.2	16.2	64	nw.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.03	712.0	30.13	765.3	68.0	20	69	e.			2		kn		se.	0.043	1.1		M. Seger, Director.
Rouen, Normal School	30.10	764.5	30.15	765.7	61.5	16.4	56	w.			1		5	w.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	30.03	762.8	30.19	766.9	60.4	15.8	68	nnw.			1		10		w.	0.020	0.5		M. Renou, Director.
Toulouse, Observatory	29.54	750.4	30.27	768.9	68.2	20.1	65	w.			1		10	nw.		0	0	covered	M. Baillaud, Director.
Tours	30.04	763.0	30.21	767.3	61.2	16.2	61	wnw.			1		10		sw.	0	0	rainy	M. de Tastes.
Versailles, Observatory	29.71	754.6	30.20	767.1	58.6	14.8	70	n.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.12	765.1	30.27	768.9	65.1	18.4	62	w.	11.9	5.3		0	9 k		e.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.65	727.7	30.06	763.4	70.5	21.4	61	calm			0		6			0.280	7.1		Prof. Jnedt.
Bamberg	29.21	742.0	30.06	763.5	74.3	23.5	60	w.			1		5 k		wnw.	0.098	2.5		Prof. Dr. Hoh.
Berlin	29.92	760.0	30.06	763.5	78.3	25.7	44	se.			1		2			0	0		Meteorological Institute
Breslau	29.61	752.1	30.14	765.6	71.2	21.8	39	ese.			2		2	wsw.		0	0		Royal University Obs'y
Carlsruhe	29.61	752.1	30.05	763.3	75.2	24.0	50	s.			4		8	s.		0.201	5.1		Albert Senz.
Cassel	29.34	745.2	30.05	763.3	71.6	22.0	51	nw.			4		10	w.		0.150	3.8	thnd'r storm	Dr. H. Möhl.
Frankfort-on-the-Main			30.02	762.5	76.6	24.8	50	w.			1		6			0	0		Physical Society.
Friedrichshafen	28.66	727.9	30.02	762.5	72.7	22.6	77	sw.			3		4	w.		0.705	17.9	hazy	Wilhelm, Chief Tel.
Hamburg	29.98	761.6	30.08	763.9	75.0	23.9	57	nw.			3		0			0	0		E. Preller.
Kiel	30.04	762.9	30.05	763.3	67.5	19.7	52	calm			0		5			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.65	753.0	30.05	763.3	73.4	23.0	55	wnw.			1		8			0	0	hazy	H. Leppig, Asst.
Magdeburg	29.86	758.4	30.04	763.0	77.9	25.5	40	e.			1		4	sw.		0	0		Dr. Assmann.
Memel	30.13	765.4	30.16	766.6	56.8	13.8	42	nw.			3	4 c	0						Iasermann.
Munich	28.26	717.9	30.13	765.4	70.0	21.1	60	ne.			2		5	se.		0.087	2.2		Central Station.
Neufahrwasser	30.17	766.2	30.18	766.6	61.7	16.5	50	ne.			2		0			0	0		A. Lothes.
Neustadt, Palatinate	29.52	749.8	30.05	763.2	72.5	22.5	55	calm			0		5			0.236	6.0	raining	Dicknether.
Stuttgart	29.11	739.4	29.97	761.3	72.5	22.5	59	n.			1		4	w.		0.008	0.2		Prof. Dr. Schoder.
Wustrow	30.19	766.7	30.21	767.3	73.8	23.2	44	ne.			2	0	2 k			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.69	754.0	30.06	763.4	84.2	29.0		s.			1.0					0	0	hazy	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.65	753.0	29.70	754.3	93.3	34.1	66	w.	24.0	10.7			1		ene.	0	0	d. clouds	
Deesa	29.23	742.3	29.68	753.8	102.2	39.0	27	n.	4.0	1.8			1	n.		0	0	d. clouds	
Bombay	29.66	753.4	29.70	754.3	89.1	31.7	70	wnw.	18.0	8.0			10		w.	0	0	overcast	
Poona, Yarrowda	27.86	707.5	29.69	754.1	82.6	28.1	58	sw.	27.0	12.1			10			0	0	overcast	
Trichinopoly	29.50	749.2	29.78	756.3	82.7	28.2	89	se.	1.0	0.4			10	ne.	ne.	0	0	overcast	
Belgaum	27.23	691.7	29.76	755.8	77.2	25.1	85	ese.	11.0	4.9			6	s.	e.	0.11	2.8	d. clouds	
Lahore	29.02	737.1	29.74	755.5	91.1	32.8	33	n.	4.0	1.8			1			0	0	blue sky	
Roorkee	28.82	732.0	29.69	754.1	92.8	33.8	30	nw.	3.0	1.3			0			0	0		
Agra	29.17	741.0	29.72	754.8	97.1	36.2	26	nw.	10.0	4.5			5		nw.	0	0	d. clouds	
Nagpur	28.63	727.3	29.64	752.8	96.2	35.7	32	calm	6.0	2.7			8		w.	0.12	3.0	d. clouds	
Jubbulpore	28.34	719.8	29.65	753.0	94.9	34.9	33	nw.	6.0	2.7			6		n.	0	0	d. clouds	
Lucknow	29.34	745.2	29.71	754.6	89.1	31.7	39	w.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.38	746.2	29.68	753.8	97.0	36.1	23	w.	4.0	1.8			0			0	0	blue sky	
Patna	29.46	748.2	29.64	752.7	90.0	32.2	61	e.	2.5	1.1			6	e.	e.	0.12	3.0	d. clouds	
Hazaribagh	27.70	703.7	29.65	753.2	91.7	33.2	39	nw.	6.0	2.7			10		e.	0	0	overcast	
Cuttack	29.67	753.6	29.75	755.7	83.0	28.3	81	se.	5.0	2.2			4		w.	0.94	23.9	d. clouds	
Calcutta, Alipore	29.71	754.7	29.74	755.3	81.5	27.5	77	s.	4.0	1.8			10			0	0	overcast	
Dhubri	29.57	751.0	29.68	753.9	86.7	30.4	79	s.	3.5	1.6			9		w.	1.14	29.0	gloomy	
Chittagong	29.69	754.1	29.78	756.4	83.7	28.7	80	sse.	3.7	1.6			5			0	0	blue sky	
Sibsagar	29.39	746.5	29.72	754.9	85.6	29.8	76	ssw.	2.0	0.9			6	e.	e.	0.01	0.3	d. clouds	
Jeypore	28.32	719.2	29.72	754.8	94.1	34.5	28	nne.	6.0	2.7			3		nne.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Bellary	28.21	716.5	.....	.....	97.0	36.1	28	e.	10	4.5	.....	4 ck	3	.....	.....	0	0	d. clouds	
Zanzibar	.....	.....	29.96	761.0	82.5	28.1	71	wsw.	5.8	2.6	.....	.....	2	ene.	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.68	753.9	30.08	764.1	74.5	23.6	69	sw.	3.1	1.4	.....	.....	9	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.60	751.7	30.10	764.6	66.4	19.1	77	nw.	4.9	2.2	.....	.....	10	.....	.....	0.008	0.2	.....	Prof. G. V. Schiapparelli.
Padua	29.99	761.8	30.10	764.5	62.2	16.8	83	nne.	2.5	1.1	.....	.....	10	n.	.....	0.748	19.0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.19	741.3	30.08	763.9	69.8	21.0	66	e.	6.3	2.8	.....	.....	9	n.	.....	0.925	23.5	.....	Prof. F. F. Denza.
Genoa	29.92	760.0	30.11	764.9	62.2	16.8	92	se.	3.1	1.4	.....	.....	10	s.	.....	0.012	0.3	.....	Prof. G. M. Garibaldi.
Mondovi	28.18	715.7	30.06	763.5	62.8	17.1	72	s.	.....	.....	2	.....	9	.....	.....	0.106	2.7	.....	Prof. D. C. Bruno.
Pesaro	30.03	762.8	30.08	764.0	68.0	20.0	85	n.	6.3	2.8	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.84	757.9	30.09	764.3	69.3	20.7	78	e.	.....	.....	2	.....	10	.....	.....	0.016	0.4	.....	Prof. Costantino Pittei.
Leghorn	29.95	760.6	30.03	762.7	65.8	18.8	91	ne.	1.3	0.6	.....	.....	10	.....	.....	0.122	3.1	.....	Prof. P. Monte.
Rome	29.87	758.7	30.04	763.0	73.8	23.2	52	w.	13.0	5.8	.....	.....	10	w.	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.81	757.2	30.06	763.6	78.4	25.8	33	se.	9.8	4.4	.....	.....	8	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.18	741.2	30.04	763.1	82.8	28.2	70	ssw.	2.5	1.1	.....	.....	4	sw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.81	757.2	30.00	762.0	63.3	17.4	88	w.	.....	.....	2	.....	10	.....	.....	0.315	8.0	.....	Prof. A. Pacinotti.
Palermo	29.84	758.0	30.09	764.3	74.1	23.4	59	ne.	8.1	3.6	.....	.....	6	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.02	762.5	30.06	763.6	74.7	23.7	67	s.	5.6	2.5	.....	.....	10	ssw.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.52	749.7	30.02	762.6	76.6	24.8	43	sw.	0	0	.....	.....	10	sw.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.32	566.8	.....	.....	43.7	6.5	69	se.	.....	.....	1	.....	10	.....	.....	0.327	8.3	.....	Prof. P. F. Denza.
Valdobbia	22.33	567.1	.....	.....	46.8	8.2	74	e.	.....	.....	2	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.01	762.1	30.04	763.0	51.7	10.9	90	calm	.....	.....	0	.....	10 ck	.....	w.	0.012	0.3	cloudy	H. Hattori.
Awomori	29.97	761.2	30.00	762.0	50.8	10.4	94	n.	0.4	c.2	.....	.....	10 s	.....	.....	0.148	3.8	overcast	K. Ogawa.
Hamamatsu	29.98	761.5	30.01	762.2	66.4	19.1	88	calm	.....	.....	0	0	0	.....	.....	0	0	clear	
Kagoshima	30.03	762.8	30.04	763.1	68.2	20.1	72	nw.	.....	.....	2	0	4 s	.....	.....	0	0	fair	G. Miyanohaza.
Kioto	29.83	757.7	30.00	762.1	65.1	18.4	79	w.	1.9	0.8	.....	0	1 s	.....	.....	0	0	clear	M. Tojima.
Miasaka	30.03	762.7	30.06	763.4	65.1	18.4	88	ne.	.....	.....	2	1 cs	0	w.	.....	0	0	clear	K. Masusaki.
Miyako	29.83	757.7	29.94	760.5	50.7	10.4	98	ene.	0.2	0.1	.....	.....	10 s	.....	.....	0.165	4.2	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.84	757.9	30.04	763.0	66.0	18.9	68	calm	0	0	.....	0	0	.....	.....	0	0	misty	S. Takehayashi.
Niigata	29.99	761.7	30.03	762.7	56.3	13.5	91	ne.	0.8	0.4	.....	.....	10ck;s	.....	n.	0	0	covered	M. Morita.
Nobiru	29.98	761.4	29.99	761.8	58.1	14.5	77	nnw.	16.7	7.4	.....	.....	10 s	.....	.....	0.210	5.3	covered	H. Midzushina.
Numazu	29.98	761.6	30.02	762.5	60.1	15.6	91	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. Kaneda.
Osaka	29.98	761.5	30.00	761.9	68.9	20.5	66	s.	4.1	1.8	.....	0	0	.....	.....	0	0	clear	H. Omura.
Tokei Obs'y, Yeddo	29.93	760.1	30.00	762.0	63.3	17.4	93	sw.	6.3	2.8	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayamit	29.90	760.9	30.01	762.2	69.1	20.6	72	calm	0	0	.....	10 c	0	.....	.....	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.78	756.4	29.97	761.2	78.0	25.6	67	nnw.	8.5	3.8	.....	0	1 k	.....	.....	0	0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.70	601.9	29.92	759.9	57.9	14.4	85	calm	0	0	.....	4 cs	0	sw.	.....	0	0	fair	Prof. Vicente Fernandez.
Leon	24.33	618.0	30.03	762.7	55.4	13.0	85	nnw.	2.0	0.9	.....	9 c	0	sw.	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.4	72.0	22.2	92	ne.	1.6	0.8	.....	4 cs	0	.....	.....	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Sub-series.																			
Altata	.....	.....	.....	.....	72	22.2	90	se.	11.1	5.0	.....	0	8 ks	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.18	766.6	30.18	766.6	61.2	16.2	.....	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.06	763.6	30.12	765.0	79.7	26.5	.....	nnw.	.....	.....	1	.....	.....	.....	.....	0.028	0.7	.....	
Helder	30.16	766.1	30.16	766.1	55.4	13.0	.....	nw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.18	766.5	30.18	766.5	62.4	16.9	56	n.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	30.12	765.1	30.17	766.3	63.7	17.6	69	nnw.	.....	.....	3	.....	8	.....	.....	0.012	0.3	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.86	758.5	.....	.....	79.3	26.3	76	nne.	0	0	.....	.....	2	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.98	761.4	30.04	763.0	58.3	14.6	68	s.	22	10	.....	.....	6	.....	.....	1.299	33.0	.....	
Brono	29.90	759.5	29.94	760.5	60.1	15.6	60	sw.	.....	.....	4	.....	9	.....	.....	0.370	9.4	.....	
Christiania	29.91	759.7	30.05	763.3	69.4	20.8	35	ssw.	13	6	.....	.....	2	.....	.....	0	0	.....	
Gjæsvær	29.97	761.3	30.00	761.9	63.7	17.6	.....	s.	.....	.....	6	.....	7	.....	.....	.....	.....	.....	
Lodingen	29.85	758.2	29.90	759.4	65.7	18.7	50	calm	.....	.....	0	.....	0	.....	.....	0.008	0.2	.....	
PORTUGUESE.																			
Angra, Azores	30.33	770.4	30.49	774.4	63.0	17.2	74	ene.	5.6	2.5	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.15	740.5	30.11	764.9	80.6	27.0	43	sse.	1.3	0.6	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.12	765.0	30.21	767.2	68.5	20.3	68	sw.	6.9	3.1	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29 85	758.1	30.18	766.5	67.1	19.5	66	n.	13.0	5.8	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.39	771.9	30.46	773.7	65.8	18.8	64	ne.	10.5	4.7	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.74	755.4	29.94	760.5	77.4	25.2	88	wsw.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	
Serra da Estrella	25.49	647.4	30.12	765.1	61.2	16.2	69	ese.	4.3	1.9	.....	.....	5	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.54	724.8	29.54	750.2	80.6	27.0	21	ssw.	11	5	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.02	762.5	30.04	763.0	41.7	5.4	78	nnw.	13	6	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Ashurada	30.07	763.8	29.98	761.4	72.1	22.3	89	sse.	11	5	.....	.....	10 s;n	.....	.....	0.126	3.2	.....	
Astrakhan	29.96	761.0	29.88	758.9	81.3	27.4	35	sw.	4	2	.....	.....	9 k;s	.....	.....	0.146	3.7	light clouds	Capt. Wisganow.
Baku	30.01	762.3	29.97	761.1	75.7	24.3	64	s.	4	2	.....	0	1 s	.....	.....	0	0	.....	
Barnaul	29.58	751.2	30.06	763.4	69.1	20.6	35	s.	9	4	.....	.....	7	.....	.....	0	0	light clouds	Meteorological Obs'y
Bielosersk	29.47	748.6	29.93	760.1	66.6	19.2	66	wnw.	2	1	.....	0	7 kn	.....	.....	0.039	1.0	raining	
Dorpat	29.82	757.5	30.06	763.5	68.4	20.2	35	ne.	7	3	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.83	732.3	29.75	755.0	71.8	22.1	32	wsw.	18	8	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y
Elissawetgrad	29.53	750.1	29.97	761.2	66.2	19.0	57	nw.	16	7	.....	0	7 ks	.....	.....	0	0	.....	
Irkutsk	28.55	725.2	30.22	767.5	44.6	7.0	45	n.	.....	.....	3	.....	0	.....	.....	0	0	.....	
Kasalinsk	29.30	745.7	29.54	750.2	82.8	28.2	32	se.	2	1	.....	.....	10 s	.....	.....	.....	.....	.....	
Kasan	29.47	748.6	29.73	755.2	67.6	19.8	61	w.	13	6	.....	.....	10 n	.....	.....	inap.	inap.	.....	Observatory.
Kem	30.11	764.9	30.17	766.2	56.7	13.7	29	ne.	18	8	.....	0	0	.....	.....	0	0	.....	
Kertch	29.93	760.2	29.95	760.8	66.4	19.1	84	s.	4	2	.....	0	5 k	.....	.....	0.035	0.9	.....	Lagorio & Sastyrez.
Kieff	29.34	745.1	29.95	760.8	63.5	17.5	59	n.	13	6	.....	ck	6 ks	.....	.....	0	0	.....	Observatory.
Koslov	29.15	740 4	29.67	753.7	59.5	15.3	92	nnw.	4	2	.....	.....	10 n	.....	.....	0.906	23.0	heavy rain.	
Libau	30.15	765.8	30.17	766.4	53.8	12.1	62	w.	7	3	.....	.....	4	.....	.....	0	0	.....	E. Quaas.
Lugan	29.55	750.6	29.73	755 2	61.2	16.2	81	ssw.	18	8	.....	.....	10	.....	.....	0.315	8.0	.....	Meteorological Obs'y.
Moscow	29.31	744.4	29.76	755.9	68.4	20.2	52	s.	8.9	4.0	.....	0	6 ks	.....	.....	0.035	0.9	.....	Meteorological Obs'y
Nikolaiev	29.93	760.2	30.00	762.1	64.0	17.8	65	nw.	13	6	.....	0	3 k	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.07	753.7	29.76	755.9	51.3	10.7	79	e.	7	3	.....	.....	0	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.80	756.9	29.94	760.5	72.5	22.5	33	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.53	750.1	29.86	758.4	92.5	33.6	21	nw.	1.1	0.5	.....	0	8 ks	.....	.....	0	0	.....	
Petrozavodsk	29.82	757.4	30.01	762.3	62.4	16.9	50	ne.	11	5	.....	3 ck	0	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.50	750 9	30.05	763.2	67.8	19.9	53	n.	2	1	.....	0	7 ks	.....	.....	0	0	.....	
Pola	30.02	762.5	30.05	763.3	69.4	20.8	83	ssw.	4	2	.....	0	4 s	.....	.....	0	0	.....	
St. Petersburg	30.00	761.9	30.02	762.5	70.7	21.5	45	ene.	9	4	.....	1 ck	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Semipalatinsk	29.45	747.9	30.06	763.6	81.5	27.5	35	nw.	11	5	.....	.....	6	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.79	756.6	30.01	762.3	66.2	19.0	73	wnw.	20	9	.....	.....	9 n	.....	.....	0.031	0.8	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mets. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.55	750.5	29.99	761.8	67.1	19.5	51	nw.	11	5			10 kn					thud'r st'rm	
Tashkend	28.17	715.4	29.71	754.5	90.0	32.2	25	calm	0	0		0	3 k			0	0		Terch, A. M.
Tiflis	28.60	726.5	29.96	761.0	76.5	24.7	51	s.	4	2		0	4 k			0.181	4.6		Physical Observatory.
Vernoe	27.51	698.8	29.91	759.8	72.3	22.4	44	ne.	2	1		0	1 k						
Viatka	29.06	738.2	29.67	753.6	67.3	19.6	63	wnw.	18	8			0			0.004	0.1		
Warsaw	29.70	754.3	30.11	764.8	66.9	19.4	42	n.	7	3		0	1 s			0	0		Astronomical Obs'y.
Yeniseisk	29.78	756.3	30.07	763.8	35.1	1.7	53	wsw.	9	4			10			0.157	4.0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.01	762.2	53	11.7	93	w.			4		10			0.1	3.	rainy	J. Youngclause.
North Unst			29.93	760.2				w.			4	0	0						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.07	763.8	30.17	766.4	75.2	24.0	55	sw.	2.7	1.2		0	4 k			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.20	767.1	30.26	768.6	71.6	22.0	55	nw.	2.2	1.0		2	7	n.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.24	692.0	30.15	765.7	66.2	19.0	55	ne.	7.4	3.3		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.92	709.2	30.06	763.4	78.8	26.0	45	se.	7.4	3.3			9			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.99	761.7	30.11	764.8	73.6	23.1	70	se.	3.4	1.5		2	3	wnw.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.44	747.7	30.33	770.4	59.9	15.5	84	n.	12.8	5.7		8 n	4 k	ne.	ne.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.30	744.2	30.19	766.7	65.1	18.4	64	n.	9.8	4.4			6			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.98	761.4	30.04	763.1	81.2	27.3	80	se.	4.5	2.0		1 cs	k	w.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.6	29.84	758.0	79.0	26.1	78	se.	9.8	4.4			10 kn			0	0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.04	763.0	30.13	765.4	79.7	26.5	43	e.	10.8	4.8		0	1		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	30.00	761.9	30.09	764.2	82.4	28.0	79	calm	0	0		2 cs	2 kn	se.	se.	0.157	4.0	d. clouds	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.11	764.7	30.15	765.7	63.3	17.4	51	ssw.			4		1			0	0		
Umea	30.11	764.7	30.16	766.0	64.4	18.0	46	s.			2		0			0	0		
Hernosand	30.04	763.0	30.09	764.3	66.6	19.2	43	ne.			2		0			0	0		
Stockholm	29.94	760.5	30.12	765.0	71.6	22.0	36	w.			2		0			0	0		
Wisby	30.03	762.7	30.09	764.2	54.3	12.4	74	w.			2		0			0	0		
Sub-series.																			
Upsala	29.97	761.2	30.06	763.4	72.7	22.6	39	nw.	4.3	1.9			0			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.69	728.8	30.08	764.1	66.9	19.4	62	w.			3		10			0.154	3.9	covered	The Observatory.
TURKISH.																			
Constantinople			30.09	764.3	82.4	28.0	53	n.	7	3.0			7		sw.	0	0		The Observatory.
Valona			30.21	767.3	77.9	25.5		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.5	75.7	24.3	76	w.			1		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.84	681.7			78	25.6	54					3 k	2 n	n.	sw.				Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.08	764.0	30.16	766.1	63	17.2	47	ne.	3	1.3		7 c;cs	0	sw.		0.05	1.3	fair	J. O. Barnes.
Alpena, Michigan	29.32	744.7	29.98	761.5	47	8.3	68	se.	11	4.9		8 cs	0	sw.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.03	635.8	29.85	758.2	39	3.9	59	ne.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	29.98	761.5	38	3.3	72	s.	5	2.2		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.87	733.3	30.04	763.0	68.8	20.4	86	s.	4	1.8		4 c	5 k	sw.	s.	0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.13	765.3	30.14	765.5	61	16.1	78	e.	3	1.3		8 ck	0			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.86	758.4	30.05	763.3	71.0	21.7	84	se.	5	2.2			10 n			inap.	inap.	light rain	John Healy.
Baltimore, Maryland	30.10	764.5	30.16	766.1	65	18.3	54	ne.	6	2.7		3 k	7 s	w.	w.	0	0	cloudy	Geo. W. Fisher.
Barnegat City, New Jersey	30.13	765.3	30.15	765.8	55.5	13.1	86	ne.	8	3.6		8 ck	0	sw.		0.10	2.5	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.56	750.8	29.58	751.3	36.2	2.3		n.	20	8.9		0	5 k		n.	0	0	fair	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.52	724.4	30.08	764.0	38.0	3.3	92	nw.	1	0.4		0	0			0.11	2.8	clear	A. Pritchard.
Benton, Fort, Montana	27.08	687.8	29.86	758.4	36	2.2	58	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.59?	675.4?	29.77?	756.1?	38	3.3	65	calm	0	0		0	4 s		w.	0	0	fair	T. Gibson.
Bismarck, Dakota	28.26	717.8	30.05	763.3	40	4.4	82	calm	0	0		0	0			inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	30.12	765.0	30.16	766.1	61	16.1	72	nw.	3	1.3		3 cs	0	nw.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.10	688.3	29.94	760.5	53	11.7	74	ne.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.97	761.2	30.13	765.3	58.0	14.4	64	w.	8	3.6		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.70	754.4	29.74	755.4	81.3	27.4	84	s.	8	3.6			10 s		s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.37	746.0	30.11	764.8	50	10.0	74	e.	4	1.8		9 ck	1 s	w.	w.	0.03	0.8	cloudy	W. Finn.
Buford, Fort, Dakota	28.10	713.7	30.08	764.0	42	5.6	76	e.	1	0.4		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.84	757.9	30.13	765.3	55.3	12.9	69	calm	0	0		3 cs	0	w.		0.51	13.0	clear	D. N. Farnell.
Cairo, Illinois	29.46	748.3	29.86	758.4	60.6	15.9	96	e.	6	2.7			10 n		w.	0.50	12.7	light rain	W. H. Ray.
Cape Henry, Virginia	30.07	763.8	30.09	764.3	65	18.3	90	ne.	14	6.3		5 c	3 s	w.		0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.10	764.5	30.13	765.3	65.0	18.3	65	e.	10	4.5		2 c	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.17	740.9	29.85	758.2	48	8.9	100	se.			2		fg.		se.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.02	762.5	30.04	763.0	77	25.0	76	s.	13	5.8			10 n		sw.	0.08	2.0	light rain	G. W. Davis.
Charleston, S. Carolina	30.01	762.2	30.06	763.5	73.0	22.8	90	sw.	6	2.7			10 s		sw.	inap.	inap.	threatening.	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.03	762.7	70.0	21.1	78	s.	5	2.2			10 s		s.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.19	741.4	30.00	762.0	69.0	20.6	87	s.	1	0.4		0	9 ks		sw	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	30.00	762.0	26.8	— 2.9	70	w.	4	1.8		0	0			0.23	5.8	clear	E. McGovern.
Chicago, Illinois	29.19	741.4	29.89	759.2	55.1	12.8	85	s.	3	1.3			10 s			0.19	4.8	cloudy	John Laurens.
Chincoteague, Virginia	30.08	764.0	30.10	764.5	65	18.3	68	e.	8	3.6		5 cs	0			0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.28	743.7	29.93	760.2	61.0	16.1	68	e.	1	0.4			10 s			0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.30	744.2	30.03	762.7	55.2	12.9	58	se.	9	4.0		4ck;cs	0	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.15	715.0	29.94	760.5	62	16.7	72	ne.	26	11.6		0	9 s		ne.	0	0	cloudy	T. J. Kenau.
Columbus, Ohio	29.12	739.6	29.96	761.0	56	13.3	80	w.	3	1.3			10 s		sw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.03	711.9	29.93	760.2	64.2	17.9	70	n.	18	8.0			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.24	742.7	29.88	758.9	55	12.8	86	nw.	9	4.0			10 n		nw.	0.22	5.6	light rain	R. R. Martin.
Davis, Fort, Texas	25.21	640.3	29.93	760.2	57	13.9	83	n.	16	7.2			10 ks		n.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.16	715.3	29.91	759.7	46	7.8	56	e.	6	2.7		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.41	645.4	29.93	760.2	40	4.4	76	s.	6	2.7		0	0			0.23	5.8	clear	F. Willson.
Delaware Breakwater, Del.	30.12	765.0	30.14	765.5	63	17.2	78	ne.	10	4.5		6 k	0			0	0	fair	T. S. Townsend.
Denver, Colorado	24.88	631.9	30.04	763.0	35.0	1.7	72	s.	6	2.7		0	0			0.24	6.1	clear	F. M. Neal.
Des Moines, Iowa	29.09	738.9	29.98	761.5	49	9.4	71	nw.	9	4.0			10 s		nw.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.29	744.0	29.99	761.7	57.0	13.9	80	se.	2	0.9		3 cs	0			0.20	5.1	clear	E. R. Brace.
Dodge City, Kansas	27.55	699.8	30.10	764.5	43	6.1	100	ne.	12	5.4		0	0			0.68	17.3	clear	J. H. Bryce.
Dubuque, Iowa	29.18	741.2	29.88	758.9	53.7	12.1	88	sw.	2	0.9			10 n			0.17	4.3	light rain	J. Harvey Smith.
Duluth, Minnesota	29.13	739.9	29.88	758.9	49	9.4	77	nw.	16	7.2		0	6 k		nw.	0	0	fair	N. B. Conger.
Eagle Pass, Texas	28.97	735.8	29.77	756.1	80.2	26.8	67	se.	8	3.6		0	1 s			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.30	642.6	29.98	761.5	37	2.8	75	n.	6	2.7		2 c	0	s		0	0	clear	H. R. Boynton.
Eastport, Maine	29.91	759.7	29.98	761.5	56.0	13.3	80	w.	6	2.7		0	0			0.11	2.8	clear	D. C. Murphy.
Elliott, Fort, Texas	27.33	694.2	30.03	762.7	45	7.2	76	n.	24	10.7		9 k	0	n.		0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.28	667.5	29.92	760.0	64.0	17.8	37	se.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.37	746.0	30.09	764.3	56	13.3	57	se.	7	3.1		7 cs	0	sw.		0.05	1.3	fair	C. A. Shaw.
Escanaba, Michigan	29.23	742.4	29.89	759.2	49.0	9.4	71	s.	6	2.7		0	8 s		s.	0	0	cloudy	George Heathcote.
Galveston, Texas	29.81	757.2	29.85	758.2	78	25.6	90	s.	10	4.5		0	8 ks		w.	0	0	cloudy	E. O'C. Macherney.
Grand Haven, Michigan	29.25	742.9	29.91	759.7	55.0	12.8	83	e.	5	2.2			10 s		se.	0.04	1.0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.26	641.6	29.86	758.4	57.9	14.4	37	s.	6	2.7		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.08	764.0	30.10	764.5	73	22.8	84	sw.	10	4.5		9 cs	0	sw.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.73	653.5	29.90	759.4	38	3.3	65	sw.	3	1.3		0	0			0	0	clear	N. C. Smith.
Huron, Dakota	28.71	729.2	30.06	763.5	40.2	4.6	76	nw.	8	3.6		0	0			0.07	1.8	clear	S. W. Glenn.
Indianapolis, Indiana	29.09	738.9	29.88	758.9	57.8	14.3	75	se.	4	1.8			10 s			0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.77	756.1	29.80	756.9	78.3	25.7	90	s.	12	5.4		4 k	0	s.		0	0	fair	I. A. Reed.
Jacksboro, Texas	28.79	731.3	29.94	760.5	61	16.1	65	n.	18	8.0			10 s		n.	0	0	cloudy	D. J. Carr.
Jacksonville Florida	30.02	762.5	30.06	763.5	74	23.3	88	s.	4	1.8			10 s			0.21	5.3	cloudy	J. W. Smith.

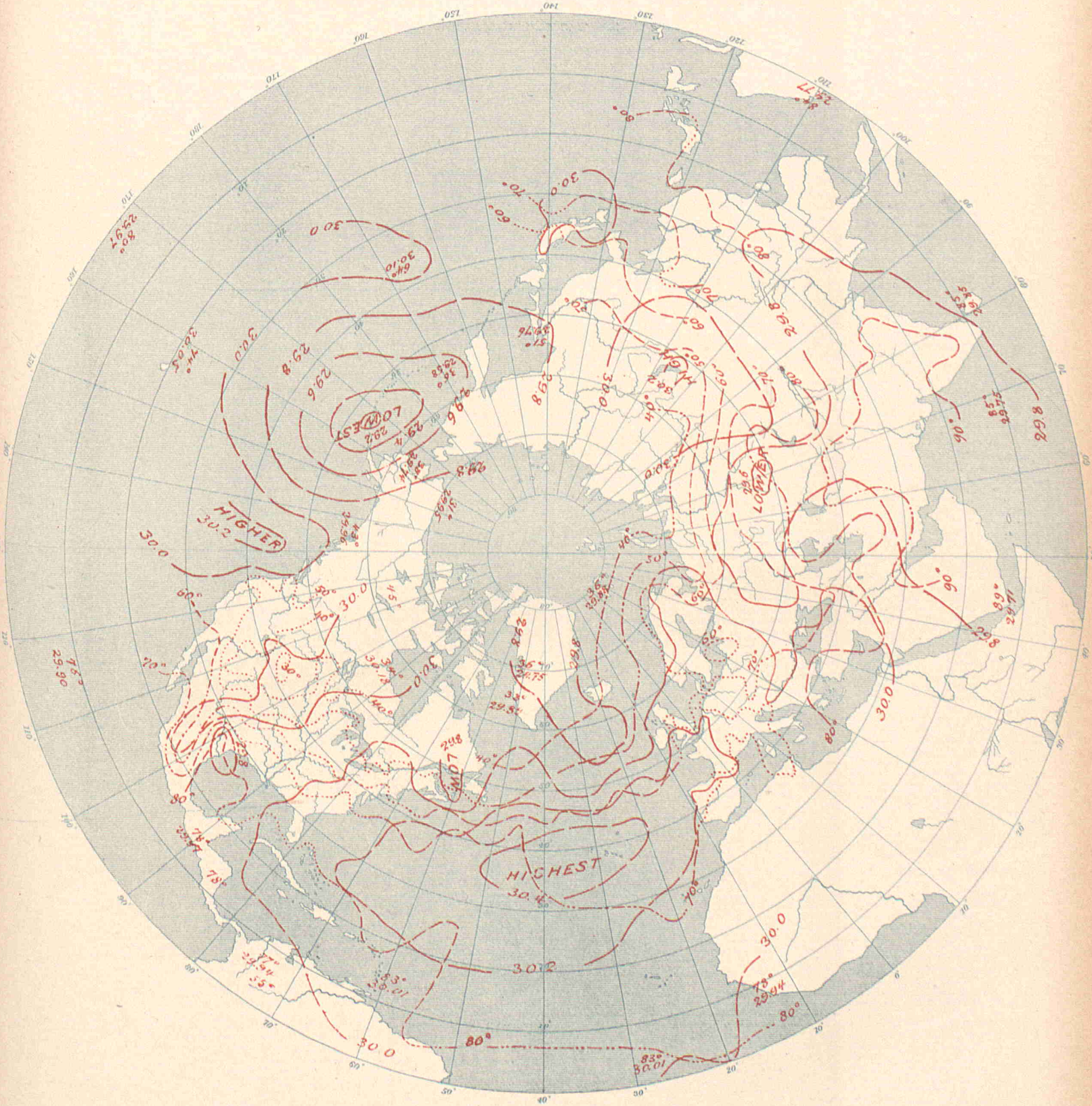
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.54	699.5	29.99	761.7	38	3.3	73	calm	0	0		0	4 s			0	0	fair	W. B. Lamar.
Keokuk, Iowa	29.24	742.7	29.90	759.4	57.0	13.9	93	n.	3	1.3			10 n		n.	0.02	0.5	light rain	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	84.0	28.9	80	se.	8	3.6		2 cs	0	sw.		0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.08	764.0	30.10	764.5	70.5	21.4	90	sw.	11	4.9			10 s			0	0	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	28.98	736.1	30.00	762.0	64.3	17.9	93	calm	0	0			9 s		sw.	0.78	19.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.07	738.4	29.83	757.7	57	13.9	57	w.	5	2.2			10 s		w.	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.17	740.9	30.05	763.3	50	10.0	86	n.	12	5.4			10 n		n.	0.17	4.3	light rain	A. W. Brown.
Lewiston, Idaho	29.10	739.1	29.94	760.5	44.0	6.7	80	e.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.56	750.8	29.87	758.7	67	19.4	90	w.	3	1.3			10 n			0.49	12.4	heavy rain	W. U. Simons.
Los Angeles, California	29.59	751.6	29.99	761.7	56	13.3	86	calm	0	0			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.29	744.0	29.84	757.9	63	17.2	84	e.	4	1.8			10 s			0.01	0.3	cloudy	L. M. Dey.
Lynchburg, Virginia	29.40	746.7	30.08	764.0	72	22.2	41	ne.	6	2.7		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.28	743.7	29.93	760.2	48.6	9.2	44	se.	8	3.6		0	6 s			0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.06	763.5	30.07	763.8	72.0	22.2	90	s.	11	4.9		8 ck	0	sw.		0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.49	647.4	29.90	759.4	40	4.4	35	w.	8	3.6		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.13	739.9	29.85	758.2	53	11.7	48	s.	14	6.3			10 k		s.	0.01	0.3	cloudy	E. H. Thompson.
Memphis, Tennessee	29.49	749.0	29.82	757.4	65	18.3	100	se.	10	4.5			10 n			2.20	55.9	thund'r st'm	D. T. Flannery.
Milwaukee, Wisconsin	29.13	739.9	29.87	758.7	53	11.7	80	w.	1	0.4			10s;fg		w.	0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.63	676.4	29.93	760.2	49	9.4	66	n.	2	0.9		0	0			0	0	clear	J. H. Young.
Mobile, Alabama	29.92	760.0	29.96	761.0	71.8	22.1	92	se.	6	2.7			10 s		s.	5.59	142.0	cloudy	C. A. Read.
Montgomery, Alabama	29.73	755.1	29.96	761.0	70	21.1	85	se.	2	0.9		0	8 k		s.	0.29	7.4	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.04	737.6	30.02	762.5	33	0.6	88	nw.	10	4.5		0	0			0.29	7.4	clear	H. Bessant.
Mt. Washington, N. H.	23.78	604.0	29.96	761.0	27.0	— 2.8	98	nw.	48	21.5		0	fg.		nw.	1.21	30.7	clear	S. W. Beall.
Nashville, Tennessee	29.30	744.2	29.87	758.7	63.5	17.5	95	se.	11	4.9			10 n		se.	1.41	35.8	thnd'r storm	L. N. Jesunofsky.
New Haven, Connecticut	30.04	763.0	30.16	766.1	60	15.6	75	nw.	1	0.4		2 c	0	w.		0.06	1.5	clear	J. H. Sherman.
New London, Connecticut	30.14	765.5	30.19	766.8	67	19.4	45	nw.	1	0.4		3 c	0			0.01	0.3	clear	J. G. Lynch.
New Orleans, Louisiana	29.87	758.7	29.92	760.0	74.0	23.3	84	s.	2	0.9		3 cs	0	w.		1.03	26.2	clear	H. C. Smyth.
New York, New York	30.00	762.0	30.18	766.6	63	17.2	56	calm	0	0		3 cs	0			inap.	inap.	clear	G. E. Franklin.
Norfolk, Virginia	30.04	763.0	30.08	764.0	69	20.6	61	ne.	9	4.0		6 cs	hz.	w.		0	0	fair	Wm. Davis.
North Platte, Nebraska	27.23	691.6	30.10	764.5	38.6	3.7	84	w.	4	1.8		0	4 s			0.21	5.3	fair	E. F. Brady.
Olympia, Washington T'y	29.93	760.2	29.97	761.2	46.0	7.8	83	s.	10	4.5		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.94	735.1	30.10	764.5	46.5	8.1	84	nw	2	0.9		0	0			inap.	inap.	clear	A. Pollak.
Ooglaamie, Alaska	29.93	760.2	29.95	760.7	31.2	— 0.4	89	e.	21	9.4		5 k	2 s	e.	e.	0	0	fair	P. H. Ray.
Oswego, New York	29.81	757.2	30.14	765.5	54.0	12.2	62	w.	1	0.4		7ck;cs	0	w.		0.30	7.6	fair	J. G. Linsley.
Palestine, Texas	29.34	745.2	29.89	759.2	75.0	23.9	88	s.	6	2.7			10 ks		sw.	inap.	inap.	cloudy	L. M. Pindell.
Pensacola, Florida	29.94	760.5	29.97	761.2	73.3	22.9	94	s.	10	4.5		7 c	3 s	w.	sw.	1.49	37.8	cloudy	M. McGauran.
Philadelphia, Pa	30.07	763.8	30.17	766.3	62	16.7	78	ne.	10	4.5		4ck;cs	0	sw.		inap.	inap.	fair	T. F. Townsend.
Pike's Peak, Colorado	17.70	449.6	29.76	755.9	12	—11.1	87	n	16	7.2		0	0			0.19	4.8	clear	H. Hall.
Ploche, Nevada	24.04	610.6	29.96	761.0	43.0	6.1	63	se.	1	0.4		4 c	0			0	0	fair	F. R. Day.
Pittsburg, Pennsylvania	29.26	743.2	30.06	763.5	54.5	12.5	64	e.	3	1.3			10 s		sw.	0.42	10.7	cloudy	W. A. Reid.
Poplar River, Montana	27.87	707.9	29.99	761.7				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.31	744.5	29.90	761.7	53.0	11.7	72	se.	3	1.3		5 ck	0	s.		0	0	fair	M. H. Perry
Portland, Maine	30.02	762.5	30.07	763.8	59.0	15.0	65	w.	7	3.1		5 c	0	w.		0.04	1.0	fair	W. W. Eichelberger
Portland, Oregon	29.82	757.4	29.88	758.9	54.0	12.2	72	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					73	22.8	84	s.	11	4.9		10 cs	hz.			0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.73	628.1	29.83	757.7	45.0	7.2	45	sw.	2	0.9		0	4 s			0	0	fair	Jas Cassidy.
Provincetown, Mass	30.10	764.5	30.13	765.3	58	14.4	64	w.	7	3.1		1 c	0	w		0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	77	25.0	90	se.	7	3.1		1 ck	1 ks	sw.	se.	0	0	clear	W. J. Evans.
Red Bluff, California	29.53	750.0	29.88	758.9	57	13.9	86	s	6	2.7		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.45	748.0	30.11	764.8	51	10.6	72	sw.	1	0.4		6 ck	hz.	w.		0.08	2.0	fair	E. W. McGann.
Roseburg, Oregon	29.33	745.0	29.88	758.9	49.2	9.6	79	calm	0	0		0	0			0	0	clear.	J. J. Nanry.
Sacramento, California	29.78	756.4	29.86	758.4	59.5	15.3	75	sw.	8	3.6		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.28	743.7	29.87	758.7	56.7	13.7	100	n.	4	1.8			10n;sk			0.11	2.8	light rain	J. H. Weber.
St. Michael, Fort, Alaska	29.71	754.6	29.74	755.4	38	3.3	89	se.	6	2.7			10 s			0.13	3.3	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.02	737.1	29.86	758.4	50.0	10.0	86	nw.	12	5.4			10 n		n.	0.03	0.8	light rain	P. F. Lyons.
St. Vincent, Minnesota	29.19	741.4	30.05	763.3	35	1.7	89	nw.	3	1.3		0	0			0.40	10.2	clear	C. B. Dilley
Salt Lake City, Utah	25.68	652.3	30.00	762.0	52	11.1	33	se.	0	2.7		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.10	739.1	29.80	756.9	77	25.0	82	s.	1	0.4			10 s			0	0	cloudy	J. H. Davis.
San Diego, California	29.87	758.7	29.94	760.5	60.9	16.1	71	w.	2	0.9			10 s			0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.13	765.3	30.16	766.1	60.0	15.6	70	nw.	5	2.2		1 k	0	nw		0.02	0.5	clear	B. A. Blundon.
Sanford, Florida	29.99	761.7			76	24.4	90	se.	4	1.8			10 s		s.	0.12	3.0	cloudy	J. B. Marbury.
San Francisco, California	29.85	758.2	29.92	760.0	56	13.3	90	sw.	6	2.7			10 s		sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.29	591.6	29.90	759.4	48	8.9	51	s.	9	4.0		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.99	761.7	30.08	764.0	72	22.2	87	s.	4	1.8			10 n		s.	0.14	3.6	light rain	H. W. Ford.
Shaw, Fort, Montana	26.33	668.8	29.93	760.2	35	1.7	82	se.	6	2.7		3 cs	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.62	752.3	29.86	758.4	75.0	23.9	90	e.	3	1.3			10 s		e.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.77	730.7	29.99	761.7	58	14.4	75	n.	28	12.5		4 c	2 ks		n.	inap.	inap.	fair	W. M. Mattingly.
Sitka, Alaska	29.90	759.4	29.96	761.0	42.5	5.8	78	nw.	12	5.4			10 n		nw.	0.57	14.5	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.40	746.7	29.88	758.9	63.0	17.2	90	n.	12	5.4			10 s		ne.	1.16	29.5	cloudy	J. B. Campbell.
Smithville North Carolina	30.03	762.7	30.07	763.8	75	23.9	82	sw.	9	4.0		4 ck	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.95	760.7	51	10.0	74	n.	1	0.4		2 c	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.22	742.2	29.89	759.2	57.5	14.2	86	calm	0	0			10 n		sw.	inap.	inap.	light rain	T. B. Jennings.
Springfield, Missouri	28.46	722.9	29.88	758.9	56	13.3	96	n.	18	8.0			10 n		n.	0.95	24.1	thund'r st'm	J. H. Bryce.
Starkville, Miss	29.46	748.3	29.93	760.2	72	22.2	83	s.	14	6.3			10 s		s.	0	0	cloudy	C. Dill.
Stevenson, Fort, Dakota																			A. Schneider.
Stockton, Fort, Texas	27.03	686.5	30.04	763.0	64	17.8	84	n.	12	5.4			10 k		ne.	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass	30.08	764.0	30.13	765.3	56.3	13.5	69	w.	10	4.5		0	0			0.06	1.5	clear	G. Liebmann.
Thomas, Camp, Arizona	27.18	690.4	29.85	758.2	60	15.6	36	s.			1	3 cs	0			0	0	clear	J. T. Fitzgerald.
Toledo, Ohio	29.28	743.7	29.96	761.0	57	13.9	80	e.	4	1.8		9 cs	0	sw.		0	0	cloudy	A. Buell.
Tucson, Arizona	27.50	698.5	29.84	757.9	59	15.0	35	s.	4	1.8		2 c	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.13	739.9	29.15	740.4	40	7.8	83	se.	14	6.3			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					56	13.3	34	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.67	753.6	29.92	760.0	74.5	23.6	83	s.	8	3.6			10 s		s.	0	0	cloudy	James Kenealy.
Visalia, California	29.50	749.3	29.87	758.7	59.0	15.0	78	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.56	623.8	30.04	763.0	30.0	— 1.1	92	w.	2	0.9		0	0			0.12	3.0	clear	T. M. Ambler.
Washington, D. C.	30.02	762.5	30.13	765.3	63.4	17.4	63	ne.	6	2.7			10 ks		s.	0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.25	666.7	30.10	764.5	38	3.3	92	w.	9	4.0		0	0			0.64	16.3	clear	F. H. Brandenburg.
Williamsport, Pa	29.58	751.3	30.18	766.6	55	12.8	62	w.	2	0.9		5 c	fg.	w.		inap.	inap.	fair	B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.11	764.8	74	23.3	82	sw.	6	2.7		6 c;hz	0			0	0	fair	Samuel A. Haney.
Winnemucca, Nevada	25.54	648.7	29.89	759.2	45	7.2	59	ne.	10	4.5		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.79	731.3	30.07	763.8	43	6.1	74	nw.	21	9.4		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.78	756.4	66.8	19.3	69	ne.	2	0.9		1 c	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			55.0	12.8	67	s.	2	0.9			10ks;s		w.	0.11	2.8	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.06	763.5			70	calm	0	0		2 cs	2 s	e.	e.	0	0	fair	Robrt Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	79	26.1	91	se.			2	5 k	7 ps	e.	e.	0.020	0.5		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	740.2	29.94	760.5	77	25.0	94	calm			0		10 ks		calm	0.42	10.7	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	92	e.			1		10 ks		e.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe
Santiago de Cuba, W. I.	30.02	762.5	30.05	763.3	81	27.2	74	calm	0	0		5 c	1 ks			0	0		R. Mason.
York Factory, B. A.	30.12	765.0	30.18	766.6	33.5	0.8	95	n.	13	5.8		0	1 s		n.	0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No, 1—North Atlantic																		
H. M. S. Alexandria, N. 42° 27′, E. 18° 19′	30.10	764.5	75	23.9	72	calm			0		3	calm				sm'h		d. clouds.
H. M. S. Himalaya, N. 37° 00′, W. 9° 01′	30.11	764.8	75	23.9	68	nne.			3		5					1	ene.	d. clouds.
H. M. S. Iris, Port Said, Egypt	30.02	762.5	75	23.9	90	nne.			2		0							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.15	765.8	64	17.8	86	nnw.			3		1					1	n.	misty.
H. M. S. Opal, N. 25° 52′ W. 20° 47′	30.14	765.5	69	20.6	90	ne.			2		4	nne.				1	nne.	d. clouds.
H. M. S Rocket, N. 49° 32′, W. 5° 55′	30.25	768.3	57	13.9	87	ssw.			1		4					5	wnw.	d. clouds.
H. M. S. Tyne, Barbadoes, W.I	30.02	762.5	80	26.7	91	e.			2		4	e.						d. clouds.
H. M. S. Tenedos, St. John's, N. F	30.08	764.0	50	10.0	79	sse.			1		4	ssw.						d. clouds.
U. S. Navy Yard, Pensacola, Fla	29.92	760.0	76	24.4	86	sse.	10	4.5			8		sse.	1.95	49.5			fair
U. S. Navy Yard, Portsmouth, N. H*	30.05	763.3	60	15.6	60	nw.	7	3.1			0							clear.
U. S. S. Alliance, Norfolk, Va	30.06	763.5	70	21.1	85	ne.			1		8			0	0			fair.
U. S. S. Colorado, New York, N. Y	30.13	765.3	65	18.3	49	n.	3	1.3			2		calm	slight	slight			clear.
U. S. S. Franklin, Norfolk, Va	30.07	763.8	69	20.6	85	ne.	12	5.4			8		wnw.	0	0			fair.
U. S. S. Jamestown, Newport, R.I*†	30.11	764.8	68	20.0	76	w.			2		2							clear.
U. S. S. Kearsarge, New York, N. Y	30.19	766.8	62	16.7	77	nw.			2		5		e.					fair.
U. S. S. Lancaster, Kronstadt, Russia	30.01	762.2	60	15.6	94	wnw.			1		0					sm'h		clear.
U. S. S. Michigan, Erie, Pa			55	12.8	87	se.			2		8		sw.					fair.
U. S. S. Minnesota. New York, N. Y	30.18	766.6	61	16.1	66	calm			0		8							hazy.
U. S. S. New Hampshire, Newport, R.I	30.13	765.3	58	14.4	82	w.			1		0					sm'h		clear.
U. S. S. Portsmouth. Newport, R.I	30.10	764.5	60	15.6	94	wsw.			1		2							clear.
U. S. S. Powhatan, Key West. Fla	30.04	763.0	82	27.8	91	se.			2		2							clear.
U. S. S. Quinnebaug, N. 6° 15′, W. 11° 18′	29.92	760.0	79	26.1	86	ne.			2		10		e.			sm'h	sw.	cloudy.
U. S. S. Saratoga, New York, N. Y	30.19	766.8	64	17.8	67	nw.			1		8?		nw.			sm'h	nw.	clear.
U. S. S. St. Louis, Leagne Island, Pa	30.11	764.8	61	16.1	61	ne.	6.2	2.8			8		sw.					misty.
U. S. S. Swatara, Key west, Fla†	30.03	762.7	81	27.2	83	e.			2		5		e.	0	0	sm'h		fair.
U. S. S. Tennessee, New York, N. Y	30.19	766.8	73	22.8	59	w.	1	0.4			2			0	0			clear.
U. S. S. Vandalia, New York, N.Y	30.15	765.8	65	18.3	84	nw.			1		2		w.					fair.
U. S. S. Wabash, Boston, Mass	30.14	765.5	60	15.6	60	wnw.	5	2.2			2		w.	0	0			fair.
U. S. S. Yantic, New York, N. Y	30.18	766.6	61	16.1	71	nnw.			1–2		5							fair.
Commewyne, N. 48° 33′, W. 14° 07′	30.15	765.8	57	13.9	84	wsw.			4		4							misty.
S. S. Inchkeith, N. 26° 45′, W. 39° 17′	30.30	769.6	73.2	22.9	69	ne.			4		3							d. clouds.
S.S. British Prince, N. 43° 41′ A 42° 33′ †	30.37	771.4	66	18.9		wsw.			4		7		sw.	4 h'r	4 h'r	mod	wsw.	cloudy
S. S. Illinois, N. 39° 03′, W. 71° 30′*	30.08	764.0	68	20.0		se.			3		7		se.			sm'h	s.	cloudy.
S. S. Ohio, Philadelphia, Pa †	30.15	765.8	64	17.8	83	w.			2		4		nw.	0	0			clear.
S. S. Pennsylvanian, Liverpool, Eng †	30.17	766 3	55	12.8		wnw.			1		4		w.					fair.
S. S. Circassian, N. 55° 10′, W. 8° 40′	30.13	765.3	55	12.8	81	sse.			3		3			0	0	2	w.	d. clouds.
S. S. Grecian, Glasgow, Scotland	30.10	764.5	58	14.4	70	wsw.			3		8		wsw.	5 h'r	5 h'r			cloudy.
S. S. Nova Scotian, off Cloch Light, Scotland	30.18	766.6	64	17.8		wsw.			3		0					sm'h		clear.
S. S. Manitoban, N. 46° 00′, W. 53° 20′	30.12	765.0	42	5.6	82	ssw.			3		4		ssw.	0	0	sm'h	s.	clear.
S. S. Alene, Kingston, Jamaica†	30.07	763.8	80	26.7		var.			2		0			3 h'r	3 h'r	sm'h	sw.	fine.
S. S. Alisa, N. 32° 08′. W. 74° 00′†	30.02	762.5	77	25.0		e.			2									
S. S. Anchoria, N. 43° 06′, W. 48° 18′	30.32	770.1				calm			0		10			2 h'r	2 h'r	sli't	w.	dense fog.
S. S. Assyria, N. 40° 47′, W. 59° 23′	30.16	766.1	70	21.1		sw.			5		4		sw.	0	0	sli't	sw.	fine.
S. S. Bolivia, N. 42° 20′, W. 58° 10′ *†	30.22	767.6	56	13.3		wsw.			3		mist					long	w.	misty.
S. S. Dorian, N. 49° 16′ W. 25° 10′	30.10	764.5	56	13.3		ssw.			6		10		sw.	3 h'r	3 h'r	mod.	nw.	raining.
S. S. Devonia, N. 49° 18′, W. 35° 25′ *†	29.96	761.0	52	11.1		wsw.			8		9		w.			hv'y	w.	squally.
S. S. Furnessia, N. 42° 02′, W. 46° 30′			72	22.2	95	ssw.			3		10		sw.	0	0			cloudy.
S. S. Llandaff City, N 40° 50′, W. 66° 32′			60	15.6		s.			1		3			0	0	sm'h		clear.
S. S. Marathon, N. 39° 28′, E. 18° 11′	30.12	765.0	77	25.0		sw.			2		4		sw.	0	0	sm'h	sw.	fine.
S. S. Colina, N. 49° 00′, W. 63° 58′ †	29.61	752.1				wsw.			2		6		w.	0	0	sm'h		foggy.
S. S. France, N. 40° 26′, W. 68° 51†	29.99	761.7	55.4	13.0		s.			5		10		sw.	rain	rain	sm'h	s.	
S. S. Ville de Marseilles, N. 31° 35′, W. 45° 23′			71	21.7		ene.			3		6		ene.	2 h'r	2 h'r	long	ene.	
S. S. Arizona, N. 40° 32′, W. 67° 30′	30.21	767.3	54	12.2		calm			0		3		calm	0	0	sm'h		hazy.
S. S. Wisconsin, N. 50° 26′, W. 21° 02′			53	11.7		ssw.			3		10		ssw.	0	0	mod	ssw.	foggy.
S. S. Wyoming, N. 49° 21′ W. 29° 15′	29.94	760.5	55	12.8		wsw.			7		8		sw.			hv'y	w.	threatening.
S. S. Bohemia, N. 45° 15′. W. 44° 00′						nw.			2		10		nw.	0	0	mod.	var.	foggy.
S. S. Gellert, Hamburg, Germany	30.15	765.8	78	25.6	82	se.			1		1		e.	0	0			clear.
S. S. Rugia, Hamburg, Germany	30.04	763.0	87	30.6		nw.			5		4		w.	0	0			fair.
S. S. Silesia, St. Thomas, W. I	30.18	766.6	79	26.1		ne.			5		6		ne.	0	0	3	ne.	fair.
S. S. Westphalia, Hamburg, Germany	30.20	767.1	77	25.0	95	se.			2					0	0	sm'h		fair.
S. S. City of Berlin, N. 46° 35′, W. 41° 52′	30.27	768.8	55	12.8	87	w.			3		3		w.	4 h'r	4 h'r	sli't	wsw.	fine.
S. S. City of Paris, N. 41° 48′, W 51° 00′						calm			0		0			4 h'r	4 h'r	sm'h		foggy.
S. S. Virginian, N. 42° 20′, W. 44° 09′ *	30.36	771.1	65	18.3		sw.			5		0			0	0	mod.	wsw.	clear.
H. M. S Thetis, N. 1° 17′ W. 20° 04′	30.03	762.7	80	26.7	82	ssw.			3		2					3	sse.	d. clouds.
S. S. Archimedes, N. 27° 19′, W. 63° 21′	30.21	767.3				ene.			4				nne.	10 minutes		light	ene.	fair.
S. S. Ptolemy, N. 0° 30′ W. 30° 30′	30.06	763.5	81	27.2	74	s.			2	c	4 k	nnw.		0	0	2	ese.	fair.
S. S. Colorado, Galveston, Texas †	29.85	758.2	78	25.6		se.			3		6		sse.	0	0			fair.
S. S. Rio Grande, N. 28° 50′, W. 92° 45′*†	29.89	759.2	79	26.1		sse.			2		8		sw.	0	0	sm'h		cloudy.
S. S. San Marcos, off Highlands, N. J			65	18.3		nne.			4		0							clear.
S. S. Chalmette, N. 28° 07′ W. 80° 10′†	30.16	766.1	76	24.4		sse.			4		5		sse.	3 h'r	3 h'r	sm'h		fair.
S. S. New York, N. 26° 40′, W. 86° 00′*†	30.04	763.0	80	26.7		sw.			2		10		sw.			mod.	se.	cloudy.
S. S. Lone Star, N. 24° 45′, W. 80° 27′ †	30.09	764.3	80	26.7		ese.			2		3		se.	0	0	sm'h	nw.	clear.
S. S. Allegheny, Boston, Mass†	30.13	765.3	60	15.6		s.			2		0			0	0			clear.
S. S. Archimede, Marseilles, France †	30.17	766.3	72	22.2	71	sw.			3		2		ssw.	0	0			clear.
S. S. City of Meridia, N. 23° 09′, W. 82° 22′ †	30.09	764.3	78.8	26.0		ne.			2		1		ne.	0	0			clear.
S. S. City of Washington, Vera Cruz, Mexico			82	27.8		n.			1		5		se.	0	0	sm'h		fair
S. S. Denmark, London, Eng †	30.18	766.6	66	18.9		calm			0		2			0	0			clear.
S. S. Egypt, N. 43° 10′ W. 45° 16′*†	30.34	770.6	73	22.8		sw.			5		2		sw.	5 h'r	5 h'r	mod.	wsw.	clear.
S. S. England, Liverpool, Eng	30.15	765.8	57	13.9		nw.			2		0			0	0			clear.
S. S. Helvetia, N. 51° 43′, W. 8° 10′	30.14	765.5	55	12.8	87	s.			1		10		ssw.	10 h'r	10 h'r	sm'h		cloudy.
S. S. Holland, N. 49° 09′, W. 11° 20′	30.05	763.3	61	16.1		wsw.			3		8		sw.	6 h'r	6 h'r	mod.	sw.	cloudy.
S. S. Elbe, Bremerhaven, Germany	30.15	765.8	59	15.0	82	n.			4		8		nw.	0	0			hazy.
S. S. Fulda, N. 49° 39′, W. 13° 28′	30.11	764.8	57	13.9	81	nw.			4		6		nw.	0	0	mod.	nw.	fair.
S. S. Hohenzollern, N. 41° 53′, W. 45° 26′*	30.38	771.6	71.6	22.0		sw.			4		1		sw.	0	0	mod.	sw.	clear.
S. S. Hohenstaufen, N. 41° 16′, W. 56° 16′.	30.16	766.1				ssw.			3–4		3		ssw.			sm'h	ssw.	clear.
S. S. Main, N. 46° 00′, W. 36° 32′	30.26	768.6	60.8	16.0		wsw.			6		4		wsw.	0	0	high	w.	fair.
S. S. Neckar, N. 40° 29′, W. 49° 21′	30.37	771.4	70.0	21.1	85	sw.			5		4		sw.	rain	rain	mod.	wsw.	fair.
S. S. Ohio, N. 42° 39′, W. 30° 10′	30.52	775.2				wnw.			3		2		w.	0	0	mod.	nw.	clear.
S. S. Salier, N. 49° 49′ W. 6° 21′*†	30.26	768.6	59	15.0		w.			4		0			0	0	high	s.	clear.
S. S. Weser, N. 42° 43′, W. 45° 24′	30.41	772.4				sw.			5		5		s.	¾h'r	¼h'r	mod.	sw.	fair.
S. S. Orinoco, New York, N. Y *†	30.10	764.5	68	20.0		wsw.			3		1		w.	7 h'r	7 h'r			clear.
S. S. Colon, N. 27° 51′, W. 74° 11†	30.19	766.8	75	23.9		ene.			2		3		e.	0	0	small	e.	clear.
S. S. Muriel, N. 31° 30′, W. 68° 58′	30.21	767.3	74	23.3		s.			2		5			0	0	mod.	s.	foggy.
S. S. City of Augusta, Savannah, Ga †	30.11	764.8				se.			4		10		se.	rain	rain			rainy.
S. S. Belgenland, N. 40° 36′, W. 68° 00′ †	30.24	768.1	55	12.8	81	calm			0		4			0	0	sm'h	s.	fair.
S. S. Nederland, N. 49° 29′, W. 12° 43′			56	13.3		wsw.			4		10		wsw.	10 h'r	10 h'r	mod.	wsw.	overcast.
S. S. Rhynland, N. 40° 30′, W. 49° 30′	30.41	772.4	70	21.1	95	sw.			5		0			0	0	sm'h		clear.
S. S. Pennland, New York, N.Y	30.21	767.3	66	18.9	74	ne.			2		1		ne.	0	0			clear.
S. S. Waesland, Antwerp, Belgium	30.18	766.6	64	17.8		wnw.			4		10		wsw.	0	0			cloudy.
S. S. P. Caland, N. 40° 40′, W. 57° 20′	30.27	768.8	70.7	21.5	81	ssw.			3		4		n.			2	s.	fair.
S. S. Leerdam, N. 48° 22′, W. 35° 37′	30.28	769.1	64	17.8	94	w.			4		8		nw.			mod.	w.	hazy.
S. S. Caracas, N. 18° 09′, W. 67° 34′ †	30.13	765.3	82	27.8	81	ne.			3		0			2 h'r	2 h'r	mod.	ese.	clear
S. S. Claudius, N. 48° 10′, W. 23° 45′ †	30.25	768.3	60.0	15.6	89	sw.			4		8		wsw.	0	0		var.	cloudy.
S. S. Valentia, N. 14° 57′ W. 68° 01′†	30.18	766.6	84	28.9	83	e.			5		3		ne.	0	0	mod.	e.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. State of Florida, N. 45° 36', W. 37° 54'			67	19.4		w.			5		2		nw.	0	0	mod.	w.	clear.
S. S. State of Nebraska, N. 40° 27', W. 73° 35'*†	30.10	764.5	54	12.2							1			0	0	sm'h		clear.
S. S. State of Nevada, N. 51° 49' W. 26° 37'†	29.82	757.4	54	12.2		sw.			5		7		sw.			h'vy	sw.	fair.
S. S. Romano, Hull, Eng†	30.18	766.6	62	16.7		sw.			1									clear.
S. S. Oregon, N. 48° 13', W. 48° 49'	30.13	765.3	37	2.8		s.			2		10					mod.	ssw.	foggy.
S. S. Lake Manitoba, Lake St. Peter, Quebec	29.84	757.9	56	13.3		nw.			3		4		nw.	2 h'r	2 h'r			fair.
S. S. Olbers, N. 36° 53', W. 12° 25'†	30.23	767.8	67	19.4		nne.			5		9		nne.	0	0	mod.	nne.	gloomy.
S. S. Daniel Steinmann, Antwerp, Belgium †	30.24	768.1	68	20.0		w.			4		9		w.	0	0			cloudy.
S. S. Norman, Philadelphia, Pa.						sw.			5		10		ssw.	2 h'r	2 h'r			cloudy.
S. S. Saxon, N. 39° 55', W. 73° 30'†	30.21	767.3				nne.			4		6		se.	0	0	sm'h		fair.
S. S. Germanic, N. 44° 10', W. 42° 51'			64	17.8		s.			2		10			9 h'r	9 h'r	light	ssw	misty.
S. S. Iowa, N. 49° 56', W. 24° 08'†	30.05	763.3	56	13.3		wsw.			6		10		wsw.	10 h'r	10 h'r	rg'h	wsw.	cloudy.
S. S. Antonio Lopez, Santander, Spain	30.28	769.1	63.5	17.5	72	n.			4	6 c	0			0	0			fair.
Schr. Abbie H Gheen, Jacksonville, Fla†	30.07	763.8	75	23.9		ese.			1					0	0			fair.
H. S. M. S. Eugenie, N. 57° 29', E. 11° 15'	30.10	764.5	60.1	15.6	81	sw.			2		1							blue sky.
Bk. Alpha, N. 55° 04', W. 8° 30'*†	30.10	764.5	56	13.3		ssw.			4		2		sw.	0	0	long	w.	clear.
Bg. Alcira, N. 11° 30', W. 71° 18'	30.00	762.0	84	28.9		e.			4		5		ne.	0	0	cross	var.	hazy.
Bk. Adelaide, N. 2° 49', W. 27° 25' *†	30.01	762.2	83	28.3		sw.			3		3		ssw.	6 h'r	6 h'r	mod.	s.	fair.
Schr. Annie R. Lewis, Maunabo, Porto Rico, W. I†	30.20	767.1	84	28.9		ene.			3		5		e.	1 h'r	1 h'r	mod.	ese.	fair.
Schr. Arthur Burton, St. Simons Island, Ga*†	30.04	763.0				calm			0		5		calm	4 h'r	4 h'r			fine.
Bk. Aureola, N. 32° 13', W. 58° 27'†	30.30	769.6	84	28.9		ene.			1		3		ne.	0	0			clear.
Bk. Achille F., N. 2° —', W. 24° —'†	29.99	761.7	79	26.1	86	sw.			2		7		s.	0	0	long	s.	fair.
Bk. Arda, Woody Point, N. B*†	30.05	763.3				ssw.			8		2		sw.	5 h'r	5 h'r	sm'h		clear.
Bk. Alba, N. 52° 52', W. 48° 49'*†	30.08	764.0	40.3	4.6		s.			2									
Bg. Annie R. Storer, Delaware River†	30.20	767.1				ne.			5		3		nnw.	0	0			fair.
Bgt. Achsah, N. 28° 07', W. 67° 50'†	30.22	767.6	79	26.1		e.			2		2		e.	0	0	mod.	e.	clear.
S. S. Burswell, N 37° 37', W. 9° 12' *†	30.20	767.1	70	21.1		n.			3		2		nne.	0	0	st'g	nw.	clear.
Bg. Belle of the Bay, N. 28° 34', W. 91° 30'†	29.98	761.5				s.			5		5		s.	0	0	mod.	s.	fair.
Bk. Champion, N. 35° 43', W. 74° 00'			82	27.8	71	ssw.			4		8		sw.	0	0	short	wnw.	cloudy.
Schr. C. R. Flint, N. 31° 00', W 68° 59'.†	30.22	767.6	73	22.8		sse.			1		5		s.	0	0	mod.	sw.	fair.
Bk. Childwall, N. 37° 11', W. 34° 14'			66	18.9		ne.			4		3		ne.	0	0	light	ne.	fine.
Schr. Clotilde, N. 23° 48', W. 91° 26' *†	29.89	759.2	84	28.9		sse.			5		8		sse.	0	0	r'gh	sse.	hazy.
S. Criterion, N. 56° 08', W. 18° 00'*†	29.75	755.6				s			0		8		s.	light	light	light	nw.	rainy.
S. David Steward, N. 26° 49', W. 41° 08' †	30.30	769.6				e.			3		4?		ene.	12 h'r	12h'r	mod.	e.	cloudy.†
S.S.D. J. Foley, Kingston, Jamaica, W. I*†	30.00	762 0	82	27.8	83	e.			1		4		e.	0	0			fair.
Bkt. David A. Preston, Navassa, W. I.			82	27.8		ese.			5		5		ese.	0	0	long	se.	
Schr. Edith R. Seward, Vivorilla Cays, C. A.†	30.09	764.3	88	31.1		e.			2		4		e	0	0	sm'h	e.	clear.
S. E. J. Spicer, N. 52° 41', W. 5° 20'	30.18	766.6	56	13.3	94	sw.			3		5		wsw.	0	0	mod.	sw.	fair.
Bk. E. D. Bigelow, N. 49° 10', W. 19° 30' *†	30.05	763.3	60	15.6		wsw.			4		9		wsw.	0	0	mod.	wsw.	misty.
U. S. Fish. Com. S. S. Fish Hawk, Washington, D. C†	30.22	767.6	70	21.1	90	ne.			1		10		n.	0	0			cloudy.
H. P. M. S. Rio Lima, Porto Prayao, Cape Verd Ids.			77.0	25.0	82	ne.			3		3					3		d. clouds.
Schr. F. E. McDonald, N. 38° 34', W. 74° 51'†	30.13	765.3				e.			4					0	0			clear.
Bk. George Davis, N 51° 50' W. 22° 00'						sw.			5				sw.	2 h'r	2 h'r	r'gh	wsw.	foggy.
Bk. Gronsaver, N. 28° 38', W. 67° 25'†	30.20	767.0	79.8	26.6							3		sse.	1 h'r	1 h'r	sm'h		fair.
Bk. Galeon, N. 20° 49' W. 90° 33' †	29.98	761.5	77	25.0		e.			2		0			0	0	sm'h	e.	blue sky.
S. Hedwig, N. 37° 43', W. 13° 38'	30.33	770.3	61.7	16.5	84	nne.			6		7		nne.	0	0	3	nne.	
Bk. Hattie G. McFarland, Port Royal, S. C.			74	23.3		calm			0		10		w.	4 h'r	4 h'r			showery.
Bk. John H. Pearson, Rufisque, Senegambia						n.			1				nne.	0	0			clear.
Schr. Isabel Alberto, New York, N. Y.	30.15	765.8				nw.			1		0			light	light			clear.
Bk. Cato, N. 67° 10', E. 13° 30'	29.95	760.7				sse.			1		3		sw.	0	0	long	sw.	clear.
Bk. Johanne, N. 36° 14' W. 3° 12'*†	30.15	765.8	72	22.2		nne.			3		1		ne.	0	0	sm'h		fine.
Schr. John L. Thomas, N. 29° 48', W. 69° 00'*†	30.34	770.6				se.			2		1		s.	0	0	mod.	s.	clear.
Bg. John Wesley, N. 35° 12', W. 60° 50'*†	30.28	769.1				sw.			2		3		sw.	0	0	long	w.	hazy.
Schr. Jennie N. Huddell, N. 35° 15', W. 75° 15'†	30.14	765.5	70	21.1		ssw.			1		5		ssw.	0	0	long	sse.	fair.
Bkt. Josephine, N. 37° 56', W. 73° 09'†	30.11	764.8	68	20.0	65	ene.			4		8			0	0	sm'h		hazy.
Light House Tender, Laurel, Pensacola Bay, Fla†	29.95	760.7	74	23.3		s.			2		3		s.	10 h'r	10 h'r			clear
Bg. Lilian, N. 14° 36' W. 61° 38'†	29.99	761.7	82	27.8		ne.			3		4		ene.	½h'r	½h'r			fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	83	28.3		s.			1		1			0	0			clear.
Bk. Milo, N. 47° 31', W. 23° 00'†	30.25	768.3				wsw.			4-5				w.			short	w.	fine.
S. S. Madrid, Point Porman, Spain†	30.14	765.5	70	21.1	80	sw.			3		0			0	0	mod.	sw.	clear.
Schr. Minnie A. Bonsall, Hoboken, N. J†	30.18	766.6	71	21.7		ssw.			1		0			0	0			clear.
Bk. Matilda C. Smith, N. 43° 15', W. 32° 40'						w.			4		2		w.	0	0	r'gh	nnw.	fine.
Bgt. Myrtle, N. 19° 46', W. 58° 00'*†	30.20	767.1				ene.			5		1		ene.	0	0			
Bk. Matthias, N. 46° 35', W. 19° 35'*†	30.45	773.4	60	15.6		w.			3		10		sw.	0	0	long	w.	threatening.
Schr. Maggie Abbott, N. 36° 35', W. 69° 32'†	30.19	766.8				sw.			4		4		nw.	0	0		nw.	clear.
S.S. Mendoza, N. 38° 43', W. 74° 15'.†	30.00	762.0				se.			4				se.	1 h'r	1 h'r	sm'h	s.	clear.
Schr. Maud Briggs, Barbadoes, W. I*†	30.12	765.0				ene.			3		6		ene.	0	0			fair.
Bk. National Eagle, N. 38° 40', W. 65° 25'						sw.			3		1		ssw.	0	0			clear.
Bk. Ottawa, N. 46° 48', W. 19° 08'*	30.16	766.1	60	15.6		wsw.			5		8		w.	1 h'r	1 h'r	long	nw.	cloudy.
S. Paramita, N. 2° 11', W. 32° 22'†	29.94	760.5	82	27.8		var.			1		4		sw.	1 h'r	1 h'r	small	nnw.	clear.
S. S. Raleigh, Baracoa, Cuba, W. I†	30.14	765.5	80	26.7		ese.			3		0					mod.	ese.	clear.
Bg. Rising Sun, N. 32° 00', W. 62° 07'*†	30.30	769.6	75	23.9		sse.			1		3		s.	0	0	mod.	s.	
Bk. Rosalie Saint John, Antigua, W. I*†	30.08	764.0				ene.			3				ene.	0	0			clear.
Bk. Rosino, N. 40° 05', W. 49° 33'			71	21.7		ssw.			0		2		s.	2 h'r	2 h'r	mod.	ssw.	
Bk. Scud, N. 25° 51', W. 53° 47'*†	30.25	768.3	81	27.2		ese.			4		2		ese.	0	0	mod.	s.	clear.
Bk. Southern Belle, N. 30° 55', W. 22° 30'†	30.22	767.6	69	20.6		ene.			3		5		e.	sh'rs	sh'rs			fair.
S. St. Francis, N. 49° 16' W. 14° 30'			58	14.4	64	nw.			5		0		nw.	13 h'r	13 h'r	mod.	wnw.	fair.
Bgt. Sunlight, N. 28° 36', W. 67° 39'						ese.			3		0			0	0	sm'h		clear.
Bg. Teneriffe, N. 39° 15', W. 74° 10*.	30.04	763.0				e.			0		2					sm'h		
Bk. Usko, N. 48° 35', W. 11° 10'*	30.15	765.8	59	15.0		wsw.			2		7		w.	0	0	long	wnw.	fair.
Bkt. Wandering Jew, N. 26° 04', W. 76° 31'†.	30.16	766.1	77	25.0		sse.			5		5		se.	0	0	sm'h		fair.
S. Wm. Wilcox, Brandywine, Del*†	30.18	766.6				e.			1		2		se.	0	0	sm'h		hazy.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay *†	30.28	769.1	53	11.7	93	n.			3		2	nw.						misty.
H. M. S. Boudicea, Cape Town, Cape Colony	30.18	766.6	61	16.1	94	ssw.			1		0							blue sky
H. M. S. Sylvia, Buenos Ayres, La Platta.	30.12	765.0	52.2	11.2	93	n.			2		9	calm						d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.17	760.3	49	9.4	93	n.	11	4.9			10		calm	0	0	sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	30.15	765.8	49	9.4	93	n.			2		10		n.			sm'h		cloudy.
May Hulse, S. 33° 10', W. 29° 40'	30.30	771.1	54	12.2	74	sse.			1		5							showery.
S. S. Jerome, S. 0° 24', W. 48° 00'*	29.87	758.7	79	26.1		calm			0		5		e.	0	0	sm'h		fair.
S. S. Hevelius, S. 18° —', W. 38° —'†	30.37	771.4	72	22.2		sse.			6		7		ne.	4 h'r	4h'r			fair.
S. S. Ptolemy, S. 2° 30', W. 32° —'	30.03	762.7	81	27.2	75	ne.			4		4 k			5.00	127.0	2	ese.	fair.
Bk. Alpheus Marshall, S. 28° 49', E. 7° 45'*†	29.97	761.2				se.			1		2		e.	0	0	sli't.	e.	hazy.
S. Dynomene, S. 34° 00', E. 16° 35'	30.10	766.1	63	17.2	89	e.			3		0			0	0	sli't	sw.	clear.
Bk. Horace Scudder, S. 8° 13', W. 16° 32'*†	30.10	764.5	75	23.9		sse.			5		8		sse.	sq'lls	sq'lls	long	sse.	cloudy.
S. Mt. Washington, S. 15° 32', W. 36° 16'*†	30.23	767.8	79.3	26.3	74	sse.			0		8		sse.	1 h'r	1 h'r	h'vy	s.	cloudy.
S. Minnie N. Gerow, S. 38° 12', E. 7° 08'			58	14.4		nw.			4		10		n.	0	0	sm'h	w.	overcast.
S. Wm. McGilvery, S. 12° 44', W. 36° 10' *†	30.15	765.8	77	25.0	91	sse.			0		0?					h'vy	ssw.	heavy rain?
S. S. Hermod, S. 5° 10', W. 35° 11' †	30.02	762.5	77.0	25.0		s.			1		10		sse.	6 h'r	6 h'r	sm'h	s.	cloudy.
H. P. M. S. Rainha de Portugal, S. 6° 08', E. 12° 09'	30.07	763.7	77.4	25.2	86	sse.			3		2			0	0	1		d clouds.
District No. 3—North Pacific.																		
H.M. S. Champion, N. 1° 43', E. 110° 32'	29.77	756.1	84	28.9	96	n.			1		8							d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.						Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.		Rainfall or melted snow in the past 24 hours.		Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
H. M. S. Sappho, N. 13° 54′, W. 90° 49′	29.97	761.2	78	25.6	?	ne.			1		5	sw				5	s.	d. clouds.
H. M. S. Flying Fish, N. 37° 00′, E. 126° 11′	29.97	761.2	57.5	14.2	94	calm			0		10					2	sw.	misty.
H. M. S. Magpie, N. 5° 17′, E. 115° 16′	29.86	758.4	81.6	27.6	79	calm			0		10							thund'r st'm
H. M. S. Swiftsure, Esquimalt, Vancouver Id	30.08	764.0	53	11.7	86	calm			0		3	wsw.						d. clouds.
H. M. S. Zephyr, N. 34° 41′ E. 135° 12′	29.96	761.0	72	22.2	71	calm			0		1							blue sky.
H. P. M. S. Tamega, Macao, China	29.86	758.4	85.3	29.6	85	sw.			4		1			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.05	763.3	64	17.8	94	calm			0		0			0	0			clear.
U. S. S. Adams, Pyramid Harbor, Alaska†	29.86	758.4	48	8.9	85	calm			0		8					sm'h		cloudy.
U. S. S. Hartford, Honolulu, Sandwich Ids *	30.05	763.3	74	23.3	76	se.			1		0			light	light	sm'h	ne.	clear.
U. S. S. Monocacy, Roze Id, Corea	29.97	761.2	61	16.1	94	w.			2		10		calm					misty.
U. S. S. Palos, Hong Kong, China	29.73	755.1	84	28.9	87	s.			1		8		calm					cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.73	755.1	84	28.9	87	ssw.			1		2		ssw.	0	0			clear.
S. S. Coptic, N. 28° 44′, E. 126° 31′	29.94	760.5	74.5	23.6	61	ese.			2		0			0	0			clear.
S. S Oregon, San Francisco. Cal †	29.74	755.4	56	13.3	94	calm			0		8		nw.					cloudy.
S. S. Ancon, N. 34° 47′, W. 120° 45′ †	29.92	760.0	58	14.4	88	ne.			2		10					mod.	w.	foggy.
S. S. G. W. Elder, Victoria, B. C †	29.89	759.2	51	10.6	86	sw.			2		0							clear.
S. S. City of Pekin, N. 40° 35′, W. 129° 00′			53	11.7	80	n.			5		0			0	0	mod.	n.	clear.
S. E. B. Sutton, N. 38° 00′, W. 123° 40′†	29.95	760.7	54	12.2	100	sse.			1		fg.					mod.	nw.	foggy.
S. S. City of Rio de Janeiro, N. 36° 37′, E. 168° 05′ †	30.10	764.5	64	17.8	94	nw.			1		10		s.			light	s.	raining.
S. S. Granada, Panama Bay, Panama †	29.85	758.2	79	26.1	91	se.			1		3			0	0			fair.
S. S. San Blas, N. 11° 23′, W. 87° 16′			84	28.9		e.			2		5		se.	2 h'r	2 h'r	small	s.	fair
S. S. San José, N. 33° 48′, W. 119° 42′ †	29.98	761.5	60	15.6		wnw.			2		k		wnw.	0	0	long	nw.	fair.
S. S. Benledi, Kobe, Japan*	29.99	761.7	66	18.9	74	s.			1–2		0			0	0	sm'h		clear.
Bk. Bore, Macassar, Celebes Id*†	30.23	767.8	86	30.0		ene.			1									
S. David Crocket, N. 8° 07′, W. 116° 07′ *	29.90	759.4	76	24.4	88	nne.			2		9			9 h'r	9 h'r	sm'h	n.	raining.
S. Grecian. N. 33° 25′, E. 139° 10′†	30.02	762.5	71	21.7	90	w.			3		hz.			0	0	sm'h	se.	hazy.
S. S. Malabar. N. 4° 06′, E. 100° 19′						var.			3		10		sw.	8 h'r	8 h'r	mod.	sw.	raining.
S. S. Radnorshire, N. 25° 55′, E. 121° 13′*†	29.80	756.9				ene.			6		10		ene.	4 h'r	4 h'r	mod	ese.	light rain.
S. Titan, N. 42° 45′, W. 131° 43′ *†	30.32	770.1	56	13.3	94	nnw.			5		10		nnw.	0	0	r'gh	unw.	cloudy.
Bk. Xenia, Woosung river, China			68	20.0		se.			6				sw.	0	0			foggy.
S. S. Zealandia, N. 1° 55′ W. 165° 42′	29.97	761.2	80	26.7	91	ene.			4		0					sm'h		clear.
U. S. S. Ranger, N. 15° 46′, W. 97° 12	29.89	759.2	83	28.3	83	e.			2		2			0	0	sm'h		clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			55	12.8	68	calm			0		3	s.						d. clouds
H. M. S. Espiegle, S. 6° 44′, E. 178° 32′	29.87	758.7	83	28.3	83	e.			4		8					4	e.	d. clouds.
H. M. S. Kingfisher, S. 28° 23′, W. 132° 56′	30.18	766.6	72	22.2		nne.			3–5		10					3	e.	raining.
H. M. S. Liffey, S. 29° 56′, W. 71° 20′	29.98	761.5	57	13.9		calm			0							sm'h		d. clouds.
H. M. S. Nelson, Levu, Feejee Ids, Oceania	29.79	756.7	79	26.1	91	ne.			1		1	w.						blue sky.
U. S. S. Iroquois, Valparaiso, Chili	30.14	765.5	51	10.6	79	ese.			2		8					sm'h		cloudy.
U. S. S. Lackawanna, S. 26° 32′, W. 102° 40′*	30.22	767.6	67	19.4	55	se.			1		8		se.			long	se.	cloudy.
U. S. S. Onward. Callao Peru†*	30.12	765.0	63	17.2	89	sse			1		10		se.					misty.
U. S. S. Pensacola, Callao, Peru*	29.94	760.5	63	17.2	89	se.	4	1.8			10		se.	light	light	sm'h		drizzling.
U. S. S. Wachusetts, S. 21° 14′, W. 165° 01′	29.95	760.7	73	22.8	81	sse.			2		0					long	se.	clear.
S. S. Australia, S. 34° 04′, E. 159° 50′	29.97	761.2	64	17.8	89	w.			5		4		w.	0	0	long	w.	fair.
S. S. City of Sydney, Sydney, N. S. W *†	30.06	763.5	54	12.2	87	w.			1		0			0	0			clear.
S. Storm King, S. 57° 31′, W. 78° 08′ *†	29.06	738.1				nw.			2		6		nw.	0	0	sm'h	nw.	fair.
H. M. S. Lark, S. 9° 10′, E. 155° 53′	29.90	759.4	81.3	27.4	91	e.			1		1					2	e.	showery.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′, E. 44° 58′	29.61	752.1	89	31.7		sw.			2		4	sw.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.75	755.6	85	29.4	79	e.			2		6	sw.						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.00	762.0	82	27.8	83	s.			1		4	s.				2	s.	d. clouds.
S. S. Tourmaline, N. 11° 00′ E. 68° 30′	29.75	755.6	85	29.4	87	wsw.			3		5	w.				6	sw.	showery.
H. M S. Woodlark, Bussorah, Turkey in Asia	29.69	754.1	93	33.9	55	nw.			2		8	calm						misty.
U. S. S. Enterprise, Durban, Natal	30.23	767.8	64	17.8	89	nnw.			1		5		w.			mod.	ne.	fair.
U. S. S. Juniata, Bombay, India	29.69	754.1	88	31.1	96	nw.			4		5		nw.	0	0			hazy.
S. S. Salerno, Bombay. India †	29.82	757.4	88	31.1		ene.			2		5		nw.	1 h'r	1 h'r	mod.		
S. Annie M Law, S. 29° 41′, E. 34° 12′ *†	30.28	769.1	68	20.0		sw.			2		3		sw.	2 h'r	2 h'r	con.		squally.
Bk. Ceylon, S. 34° 53′, E. 20° 08′*†	30.24	768.1	68	20.0	90	ene.			4					0	0	mod.	sw.	clear.
Bk. Pilgrim, Samarang, Java, Oceania*†	29.90	759.4				ese.			2		2		ese.	0	0			clear.
S. S. Foscolia, N. 21° 39′, E. 37° 41′ †	29.84	757.9				nnw.			6		0			0	0	high	nnw.	hazy.
S. S. Gordon Castle, S. 10° 38′, E. 142° 05′*	29.95	760.7	79.0	26.1	89	ese.			5–6		10		ese.					showery.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MAY 31, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.13	765.3	76.6	24.8	77	e.			1		0			0	0	clear	Malaterre.
Algiers			30.15	765.7	70.2	21.2	75	ene.			1		0			0	0	clear	Thève.
La Calle			30.10	764.4	74.1	23.4	72	nnw.			2		3			0.020	0.5	pretty fair	Fonfrède.
Tunis			30.10	764.5															Jacques.
Saida			30.19	766.7															Pérés.
Tebessa			30.15	765.8	73.4	23.0	52	n.			2		2			0	0	fair	St. Martin.
Geriville					68.9	20.5	69	w.			1		0			0	0	clear	Forfert.
Laghouat			30.11	764.9	81.7	27.6	28	ne.			1		0			0	0	clear	Abraham.
Biskra			30.11	764.7	84.6	29.2	52	w.			1		0			0	0	clear	Gouson.
Australian.																			
Adelaide, South Australia			29.83	757.7	53.8	12.1	74	w.	20	8.9			7ksm			0.332	8.4	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.51	749.5	29.60	751.8	54.0	12.2	75	ne.	13	5.8			9			0	0	threatening	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.38	746.3	29.91	759.7	72.5	22.5	54	s.			2		4			0.055	1.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.24	742.8	29.99	761.7	72.0	22.2	51	ene.	7.4	3.3			4			0	0		Dr. Wierzbiski
Eperies	29.10	739.1	29.94	760.4	77.4	25.2	42	n.			3	9 cs				0	0		Julius Mikolik.
Gratz	28.72	729.5	29.95	760.6	64.4	18.0	93	wnw.			2		10			0.295	7.5	lightning	Andreas Rospini.
Hermannstadt	28.55	725.1	29.91	759.7	75.6	24.2	61	ne.			2		5			0.295	7.5	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.63	727.2	29.93	760.2	66.7	19.3	87	ne.			2		10			0.228	5.8	covered	The Staff.
Lemberg	29.02	737.2	29.98	761.4	69.4	20.8	48	ne.			2		2			0	0		Dr. T. Stanecki.
Neu Schmecks	26.68	677.7	29.90	759.5	70.5	21.4	42	e.			2		3			0	0		Dr. V. von Szontagh.
Pola	29.86	758.5	29.97	761.3	66.4	19.1	83	e.			2		3			0.110	2.8		I. R.Hydrographic Office.
Szathmar	29.47	748.4	29.91	759.8	70.9	21.6	52	n.			2		4			0	0		Joseph Midlinszky, S. J.
Szegedin	29.65	753.2	29.92	760.0	74.5	23.6	70	w.			3		7			0	0		Karl Stancel.
Trieste	29.87	758.8	29.97	761.3	68.0	20.0	76	e.			1		10			0.106	2.7		Royal Academy.
Vienna	29.31	744.4	30.01	762.2	63.7	17.6	93	calm			0		10			0.937	23.8		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.00	762.0	30.10	764.5	49.8	9.9	79	s.	13	5.8			10			0.010	0.3	drizzling	W. Boswell.
Armagh, Observatory	29.75	755.6	29.98	761.5	54.5	12.5	90	s.	14	6.3			10					overcast	S. Oall.
Bidston, Liverpool Obs'y			30.12	765.0	60.8	16.0	62	sse.	15	6.7			10					overcast	John Hartnup.
Bolton, Sharples	29.60	751.8	30.13	765.3	59.8	15.4	63	ssw.	18	8.0			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.70	754.4	30.10	764.5	62.8	17.1	55	sw.			1		8			0	0	d. clouds	McLandsborough&Preston
Bridgetown, Barbadoes	29.98	761.5	30.02	762.5	83	28.3	81	ne.			3		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	30.15	765.8	30.25	768.3	72.0	22.2	35	s.			0.4		1					blue sky	John McLaren.
Chatham, School M. E.	30.10	764.5	30.23	767.8	62.2	16.8	56	sw.			1		7					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.95	760.7	30.18	766.6	60.0	15.6	76	s.			4		7					d. clouds	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	75.0	23.9	19	e.			1							blue sky	Corpl. T. Mahon, A.H.C
Freetown, Sierra Leone	29.73	755.1	29.96	761.0	79.0	26.1	86	w.			1		5					raining	Sergt. C. E. Keane.
Galway, Queen's College	29.84	757.9	29.87	758.7	57	13.9	81	sw.			2		8			0.11	2.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.03	762 7	30.08	764.0	73.2	22.9	93	ne.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.83	757.7	30.04	763.0	54.8	12.7	77	s.			3		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	30.05	763.3	30.22	767.6	69.4	20.8	48	ssw.			1		7					d. clouds	The Staff.
Guernsey	29.95	760.7	30.25	768.3	61.0	16.1	61	s.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.19	766.8	30.22	767.6	65.0	18.3	45	sw.	10	4.5			5					d. clouds	The Staff.
Leicester, Museum	29.93	760.2	30.18	766.6	65.4	18.6	49	sw.			2		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762 5	68.2	20.1	89	ne.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.10	764.5	30.15	765.8	83.5	28.6	72	se.			3		6					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.65	753.1	30.16	766.1	65.0	18.3	99	s.			5		5					d. clouds	Rev. Jas. W. Browne.
Oxford, Radcliffe Obs'y	29.98	761.5	30.21	767.3	64.7	18.2	50	sw.			4		5					d. clouds	The Staff.
Plymouth	30.13	765.3	30.20	767.1	60.0	15.6	75	s.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.89	759.2	29.99	761.7	51.1	10.6	86						10					showery	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.87	758.7	29.93	760.2	87.8	31.0	53	n.			2		8					d. clouds	W. H. Lyne.
Sheffield	29.86	758.4	30.13	765.3	68.5	20.3	55	ssw.			3		4			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.05	763.3	30.08	764.0	59.0	15.0	67	sw.			4		10			0.095	2.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.14	765.5	61.0	16.1	58	s.	18	8.0			10					misty	W. C. Carlisle.
Truro, Royal Institution	30.12	765.0	30.22	767.6	63	17.2	72	s.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.89	759.2	29.92	760.0	57.1	13.9	84	s.	34	15.2			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.69	754.1	30.08	764.0	69.4	20.8	71	nw.	14.2	6.3			2 cn		w.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.19	766.8	30.23	767.8	55	12.8	78	se.	11	4.9			10 n		sw.	0.025	0.6	cloudy	H. J. Cundall, C. E
Chatham, N. B*	30.12	765 0	30.18	766.6	52	11.1	80	s.	2	0.9			10 n		s.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.33	745.0	29.52	749.8	59.8	15.4	86	w.			6		10 s			0.711	18.1	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.12	765.0	30.17	766.3	44.0	6.7		e.			1		10 n					raining	H. A. Johnson.
Father Point, Quebec*	30.02	762.5	30.04	763.0	48	8.9	80	sse.	10	4.5			10 n			0.02	0.5	light rain	J. McWilliams.
Fort Garry, Manitoba*	29.03	737.3	29.86	758.4	46	7.8	68	s.	18	8.0		0	2 ks		w.	0	0	fair	James Stewart.
Fredericton, N. B	30.04	763.0	30.11	764.8	52.9	11.6	75	e	12	5.4			10 s			inap.	inap.	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.78	731.0	29.89	759.2	45.0	7.2	100	w.	2	0.9			10 n			0.33	8.4	cloudy	Jas. Grant.
Halifax, N. S*	30.16	766.1	30.29	769.4	51	10.6	86	sw.	5	2.2		8 k	0		sw.	0	0	fair	A. Allison.
Hamilton, Ontario	29.44	747.8	29.84	757.9	49.7	9.8	88	sw.			1	5 ck	0		sw.	0.32	8.1	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.34	745.2	29.67	753.6	49	9.4	80	sw.	21	9.4			10 ks		sw.	0.96	24.4	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.30	769.6	30.34	770.6	61	16.1	85	sw.			2	6 ck	0		sw.	0	0	d. clouds	C. H. Rigby.
Montreal, Quebec*	29.36	745.7	29.56	752.8	56	13.3	90	s.	16	7.2			10 s			1.51	38.4	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.24	742.7	29.48	748.8	57.7	14.3	88	sw.			1		10 s			0.88	22.4	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.02	737.1	29.72	754.9	46	7.8	93	w.	18	8.0			10 n		w.	0.55	14.0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.95	735.3	29.68	753.9	52.7	11.5		w.			3		10 ks			0	0	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.19	741.4	29.88	758.9	49	9.4	85	sw.	13	5.8		10 c	0		w.	1.14	29.0	fair	H Morgan.
Port Stanley, Ontario	29.25	742.9	29.90	759.4	48	8.9	93	sw.	10	4.5			10 n		nw.	0.65	16.5	cloudy	M. Payne.
Quebec, Quebec*	29.37	746.0	29.72	754.9	49	9.4	100	n.	18	8.0			10 n		e.	0.40	10.2	heavy rain	Capt. Ashe, R. N
Rockliffe, Ontario*	29.02	737.1	29.47	748.5	49	9.4	93	nw.	4	1.8			10 s		w.	0.87	22.1	light rain	W. H. McIntyre.
St. Andrews, N. B	30.04	763.0	30.09	764.3	47	8.3	92	se.	8	3.6			10 n			0	0	cloudy	
St. John, N. B	29.95	760.7	30.12	765.0	51.0	10.6	86	e.	6	2.7			10 ks			0	0	overcast	G. Murdock, C. E.
Saint John's, N. F	29.73?	755.1?	29.98?	761.5?	52	11.1	60	w.	5	2.2		0	0			0.20	5.1	blue sky	J. Higgins.
St. Pierre, N. F			30.28	769.1	50.0	10.0		w.			6					0	0		The Commandant
Saugeen, Ontario*	29.10	739.1	29.82	757.4	42	5.6	93	w.	10	4.5			10 s			0.68	17.3	drizzling	
Stratford, Ontario	28.60	726.4	29.89	759.2	45.4	7.4	90	w.	8	3.6			10 s			0.427	10.8	d. clouds	C. J. Macgregor, M A
Sydney, C. B*	30.29	769.4	30.35	770.9	56	13.3	72	calm	0	0		1c cs	0		w.	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.44	747.8	29.82	757.4	51	10.6	77	w.	22	9.8			10 ks		w.	0.75	19.0	cloudy	Magnetic Observatory.
Windsor, N. S	30.11	764.8	30.21	767.3	57.0	13.9	75	nw.	5	2.2		0	9 ks			0	0	overcast	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.81	731.8	29.88	758.9	48.7	9.3	88	sw.	15	6.7			10 s			0	0	overcast	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.05	763.3	30.11	764.8	56	13.3	86	e.	15	6.7			10 s		se.	0.01	0.3	light rain	Lt. F. E. Wilmot, R.N.
London, Ontario	28.98	736.1	29.88	758.9	47.2	8.4	97	s.			1		10 n			0.42	10.7	overcast	E. B. Reed.

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STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	29.95	760.7	29.98	761.5	69.0	20.6	60	wnw.	5.4	2.4		7 c	0			0	0	clear	John Duthie
Springbok Fontein	27.90	708.6			70	21.1	36	ne.											J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.37	644.3																	A. Guelny.
Tchang-kia-tchouang	29.75	755.6	29.86	758.4	70.2	21.2	57	calm			0		0			0.020	0.5		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.67	753.6	29.69	754.2	72.1	22.3	97	ssw.	2.9	1.3			10 n			0.783	19.9	covered	M. Marc Dechevrens, S.
Danish.																			
Copenhagen	30.11	764.7	30.15	765.9	60.6	15.9	75	sse.	9	4			0						Oversergent Fischer.
Fanoe	30.21	767.3	30.23	767.8	58.3	14.6	56	nnw.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.85	758.2	29.89	759.3	38.7	3.7	80	calm			0		7						S. Kleinschmidt.
Jacobshavn, Greenland	29.95	760.6	29.99	761.8	38.5	3.6		n.			2		7						
Stykkisholm, Iceland	29.97	761.1	30.01	762.2	39.6	4.2	79	calm			0		0						A. O. Thorlacius.
Thorshavn	30.00	762.0	30.02	762.6	52.0	11.1	84	se.	13	6			8						Overloerer Bergh.
Vestervig	30.13	765.4	30.23	767.7	52.7	11.5	74	nw.			4		1						Loerer Oesterbol.
Egyptian.																			
Cairo	29.79	756.6			91.8	33.2		n.	5.6	2.5		0	0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.64	752.8	30.28	769.0	68.4	20.2	59	nnw.			1		k			0	0		M. Labroue, Director.
Alençon, Normal School	29.71	754.6	30.26	768.6	62.2	16.8	76	nw.			1	0	5 k		se.	0	0	cloudy	M. Nicot, Director.
Arras, Engineer School	29.91	759.8	30.17	766.2	63.3	17.4	53	ne.			1	0	2 k			0	0	slightly cl'dy	M. Fénéon, Command't.
Avignon, Normal School	30.00	761.9	30.08	763.9	65.8	18.8	66	n.			2		8		nw.	0	0	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.60	751.8	30.14	765.6	66.7	19.3	60	ne.			2	0	5 kn		ne.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.98	761.6	30.25	768.3	63.5	17.5	43	nw.			1		0			0.004	0.1	clear	M. Frère Eugène Marié.
Besançon, Normal School	29.18	741.2	30.06	763.4	59.5	15.3	97	nne.			1		n		n.	0.24	6.		M. Gobin, Director.
Bordeaux, Observatory	29.95	760.7	30.21	767.3	64.2	17.9	53	wnw.			1		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.64	752.8	30.18	766.6	66.2	19	57	nnw.			2		n		nnw.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.02	762.5	30.26	768.7	66.6	19.2	72	sw.			2		4		sw.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.15	765.7	30.22	767.7	60.6	15.9	100	s.			1		5		s.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.77	756.1	30.08	764.0	76.5	24.7	79	wnw.			3		2		n.	0.024	0.6	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.67	753.5	30.17	766.2	66.2	19	57	ne.			2		5			0.12	3.	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.82	732.1	30.16	766.1	62.6	17.0	59	n.			2		10			0	0	covered	M. Alluard, Director.
Cluny, Normal School	29.26	743.2	30.10	764.6	61.5	16.4	83	n.			1		9		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.26	743.1	30.13	765.2	65.8	18.8	61	w.			2		kn	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.47	697.7	29.95	760.7	65.8	18.8	56	w.			1	0	8 k		s.	0.020	0.5		M. Jeangirard, Director.
Gréasque, du Rhone	28.89	733.8	29.98	761.6	67.5	19.7	60	nw.			3		2		w.	0.138	3.5		M. Kina, Director.
Grenoble, Normal School	29.32	744.6	30.07	763.8	58.6	14.8	86	wnw.			3		10 kn		nw.	0.559	14.2	raining	M. Ablard, Director.
Guéret, Normal School	28.65	727.6	30.22	767.7	60.8	16	69	ne.			1		kn		sw.	0	0		M. Delorme, Dir.
Lamballe, Normal School	30.06	763.5	30.33	770.3	66.2	19	87	ne.			2		5		ne.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.62	752.4	30.18	766.5	69.4	20.8	41	w.			2	0	5 k			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.17	766.3	30.27	768.9	66.9	19.4	53	s.			2		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.08	738.6	30.13	765.4	56.7	13.7	91	nw.			2		10 n					raining	M. André, Director.
Mans, Normal School	29.93	760.2	30.23	767.8	62.1	16.7	69	nw.			1		2		sw.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.74	755.3	30.00	762.1	69.8	21.0	60	nw.			4		3		nw.	0	0		M. Stephan, Director.
Montlouis	24.93	633.2	29.77	756.2	54.5	12.5	41	nw.	9.4	4.2			3	nw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.92	759.9	30.00	762.0	75.2	24	60	n.			4		2		n.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.35	745.6	30.13	765.3	60.4	15.8	83	nw.			1		n			0.130	3.3	foggy	M. Hasse, Director.
Nantes, Observatory	30.10	764.6	30.26	768.7	69.8	21.0	42	ese.			0–1	0	5 k		sse.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.01	762.2	30.12	765.0	72.3	22.4	43	nw.	20.6	9.2			2		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.37	542.8			37.2	2.9		sw.			1		1		w.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.04	737.6	30.02	762.5	59.4	15.2	78	n.			3		5 n		ne.	0.602	15.3	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.30	642.7			41.4	5.2	100	nnw.			3		10			0.039	1.0	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.20	767.1	30.23	767.9	70.5	21.4	59	calm			0		5			0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.01	762.3	30.26	768.7	67.6	19.8	46	nw.			1		2		n.	0	0	very cloudy	M. Brotier, Director.
Rodez, Normal School	28.06	712.8	30.20	767.0	57.6	14.2	57	se.			3	0	1 k		se	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.14	765.5	30.19	766.7	66.9	19.4	40	se.			1		1	w.		0	0	clear	M. Mouillot, Dir.
Saint Maur, Observatory	30.05	763.3	30.21	767.4	68.2	20.1	41	ne.			1		1		ne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.52	749.8	30.25	768.3	72.0	22.2	49	nw.			3		5	w.		0	0	cloudy	M. Baillaud, Director.
Tours	30.04	762.9	30.21	767.4	68.0	20.0	40	nnw.			1		0			0.016	0.4	clear	M. de Tastes.
Versailles, Observatory	29.72	755.0	30.22	767.5	66.2	19.0	38	n.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.08	764.0	30.23	767.8	70.2	21.2	58	e.	5.8	2.6		0	4 k		w.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.61	726.8	30.03	762.8	65.1	18.4	77	ne.			2		10	ne.		0.465	11.8		Prof. Jnedt.
Bamberg	29.19	741.4	30.03	762.8	68.9	20.5	70	ne.			3	0	7 ks			0.039	1.5		Prof. Dr. Hoh.
Berlin	29.94	760.5	30.08	764.0	79.2	26.2	34	se.			1		3			0	0		Meteorological Institute
Breslau	29.56	750.8	30.09	764.3	73.9	23.3	33	e.			2		2			0	0		Royal University Obs'y
Carlsruhe	29.63	752.5	30.08	763.9	67.3	19.6	74	ne.			3		10	ne.		0.008	0.2	light rain	Albert Senz.
Cassel	29.41	746.9	30.12	765.0	63.0	17.2	74	n.			4		8	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.10	764.4	61.7	16.5	82	nw.			1		10			0.366	9.3		Physical Society.
Friedrichshafen	28.63	727.2	30.00	762.1	67.5	19.7	77	w.			1		8	w.		0.799	20.3	hazy	Wilhelm, Chief Tel.
Hamburg	30.09	764.2	30.18	766.5	67.1	19.5	56	wnw.			3		5	sw.		0	0		E. Preller.
Kiel	30.16	766.0	30.17	766.4	61.5	16.4	56	ne.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.66	753.4	30.07	763.7	72.1	22.3	57	nw.			3		8			0	0		H. Leppig, Asst.
Magdeburg	29.91	759.7	30.09	764.3	74.7	23.7	50	nnw.			1		2	ne.		0	0		Dr. Assmann.
Memel	30.10	764.6	30.15	765.8	58.8	14.9	44	nw.			4		0						Issermann.
Munich	28.19	716.1	30.06	763.4	59.5	15.3	88	calm			0		10	w.		1.248	31.7	heavy rain	Central Station.
Neufahrwasser	30.13	765.4	30.15	765.8	59.7	15.4	57	ne.			1		0			0	0		A. Lothes.
Neustadt, Palatinate	29.52	749.8	30.05	763.2	67.1	19.5	68	nnw.			4		10			0	0		Dicknether.
Stuttgart	29.10	739.2	29.98	761.5	63.5	17.5	87	n.			1		10			0.386	9.8	rainy	Prof. Dr. Schoder.
Wustrow	30.17	766.4	30.20	767.0	60.4	15.8	65	n.			2	0	1 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.60	751.8	29.97	761.1	84.6	29.2		s.			1.5		k			0.138	3.5		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.64	752.9	29.69	754.2	94.9	34.9	61	w.	26.0	11.6			0			0	0	blue sky	
Deesa	29.20	741.7	29.65	753.1	102.9	39.4	23	ese.	12.0	5.4			5	sw.	sw.	0	0	d. clouds	
Bombay	29.70	754.3	29.73	755.2	90.0	32.2	60	w.	10.0	4.5			9		wsw.	0.04	1.0	d. clouds	
Poona, Yarrowda	27.86	707.7	29.67	753.6	90.1	32.3	47	nne.	17.0	7.6			9			1.90	48.3	d. clouds	
Trichinopoly	29.53	749.9	29.80	756.9	93.3	34.1	50	s.	1.0	0.4			7	ne.	ne.	0	0	d. clouds	
Belgaum	27.23	691.5	29.76	756.0	74.3	23.5	84	se.	11.0	4.9			8	s.		0.04	1.0	d. clouds	
Lahore	28.97	735.8	29.69	754.0	97.2	36.2	25	n.	4.0	1.8			0			0	0	blue sky	
Roorkee	28.78	730.9	29.64	752.9	96.9	36.1	23	w.	4.0	1.8			0			0	0		
Agra	29.11	739.4	29.65	753.2	99.2	37.3	21	nw.	6.0	2.7			2		ne.	0	0	d. clouds	
Nagpur	28.68	728.5	29.69	754.1	95.7	35.4	37	calm	2.0	0.9			7		sw.	0	0	d. clouds	
Jubbulpore	28.35	720.1	29.66	753.4	94.6	34.8	34	s.	4.0	1.8			7		s.	0	0	gloomy	
Lucknow	29.29	744.0	29.66	753.2	98.0	36.7	26	wnw.	9.0	4.0			0			0	0	hazy	
Allahabad	29.35	745.6	29.65	753.2	101.4	38.6	21	w.	2.0	0.9			2			0	0	d. clouds	
Patna	29.45	748.1	29.63	752.6	100.5	38.1	23	nw.	4.0	1.8			4	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.73	704.3	29.71	754.6	84.1	28.9	56	s.	9.8	4.4			10		s.	0.08	2.0	thund'r st'm	
Cuttack	29.67	753.6	29.75	755.7	81.0	27.2	77	nw.	4.0	1.8			10			0.32	8.1	overcast	
Calcutta, Alipore	29.68	753.9	29.70	754.4	88.5	31.4	61	ssw.	8.0	3.6			9			0	0	d. clouds	
Dhubri	29.55	750.7	29.67	753.6	89.3	31.8	70	calm	1.5	0.7			1		w.	0	0	d. clouds	
Chittagong	29.67	753.6	29.76	755.9	83.7	28.7	84	sw.	2.4	1.1			3			0	0	blue sky	
Sibsagar	29.39	746.5	29.72	754.9	84.2	29.0	82	sw.	2.0	0.9			10	w.	w.	0.34	8.6	d. clouds	
Jeypore	28.28	718.2	29.67	753.7	95.7	35.4	25	nnw.	9.8	4.4			2		nnw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Bellary	28.24	717.3			87.0	30.6	53	sw.	10	4.5		4 ck	6			0	0	gloomy	
Zanzibar			29.97	761.2	84.4	29.1	56	sse.	10.1	4.4			7			0	0	d. clouds	
ITALIAN.																			
Udine	29.58	751.4	29.98	761.6	68.4	20.2	83	se.	4.3	1.9			10			0.102	2.6		Prof. Giovanni Clodig.
Milan	29.48	748.8	29.99	761.7	68.0	20.0	73	nne.	3.8	1.7			9	ene.		0.846	21.5		Prof. G. V. Schiapparelli.
Padua	29.84	757.8	29.94	760.5	73.2	22.9	57	se.	4.3	1.9			7	se.		0.319	8.1		Prof. Dott. Lorenzoni.
Moncalieri	29.10	739.1	29.99	761.7	66.2	19.0	79	ne.	2.5	1.1			10	n.		0.142	3.6		Prof. F. F. Denza.
Genoa	29.80	756.8	29.99	761.7	65.8	18.8	79	sw.	3.8	1.7			10	sw.		0.173	4.4		Prof. G. M. Garibaldi.
Mondovi	28.10	713.7	29.98	761.5	62.8	17.1	86	nw.			2		9			0.146	3.7		Prof. D. C. Bruno.
Pesaro	29.93	760.3	29.98	761.5	67.3	19.6	88	se.	11.2	5.0			10			0	0		Prof. Luigi Guidi.
Florence	29.68	753.8	29.93	760.2	74.5	23.6	55	sw.			2		10			0.043	1.1		Prof. Costantino Pittei.
Leghorn	29.84	757.9	29.92	760.0	65.1	18.4	83	w.	3.1	1.4			8	sw.		0.268	6.8		Prof. P. Monte.
Rome	29.77	756.1	29.94	760.4	71.2	21.8	62	w.	16.1	7.2			10	w.		0	0		Prof. P. Tacchini.
Lecce	29.69	754.2	29.95	760.6	79.9	26.6	37	ssw.	9.8	4.4			2			0	0		Prof. C. de Giorgi.
Cosenza	29.14	740.1	30.00	762.0	79.5	26.4	70	wsw.	4.3	1.9			3	w.		0	0		Prof. D. Conti.
Cagliari	29.84	758.0	30.03	762.8	72.5	22.5	61	nw.			4		6	nw.		0.197	5.0		Prof. A. Pacinotti.
Palermo	29.81	757.1	30.06	763.4	70.5	21.4	62	nne.	9.4	4.2			5			0	0		Prof. G. Caccianore.
Syracuse	29.95	760.7	29.99	761.8	70.9	21.6	72	ne.	3.1	1.4			2	w.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.46	748.3	29.98	761.4	63.3	17.4	91	s.	8.1	3.6			10	sw.		0.429	10.9		Prof. F. Brioschi.
Stelvio	22.24	564.8			44.2	6.8	71	se.			2		10			0.189	4.8	covered	Prof. P. F. Denza.
Valdobbia	22.25	565.0			42.8	6.0	75	e.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.94	760.4	29.97	761.3	54.5	12.5	88	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	29.94	760.5	29.97	761.2	52.8	11.6	85	nnw.	4.1	1.8			9 ks			0	0	overcast	K. Ogawa.
Hamamatsu	29.95	760.7	29.98	761.4	68.6	20.3	83	s.			2		10 s			0	0	cloudy	
Kagoshima	29.94	760.5	29.95	760.8	67.9	19.9	78	w.			2	0	1 s			0.181	4.6	clear	G. Miyanohasa.
Kioto	29.80	757.0	29.97	761.3	67.0	19.4	79	wsw.	1.8	0.8			10 s			0	0	cloudy	M. Tojima.
Miasaka	29.95	760.8	29.98	761.5	69.4	20.8	76	sse.			2		10ck;s		w.	0.260	6.6	cloudy	K. Masusaki.
Miyako	29.91	759.7	30.02	762.5	48.0	8.9	95	calm	0	0			10 s			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.73	755.1	29.93	760.2	68.9	20.5	77	ne.	0.6	0.3			10 s			0.820	20.8		S. Takehayashi.
Niigata	29.93	760.2	29.97	761.2	57.8	14.3	86	nne.	0.9	0.4		10 cs	0	w.		0	0	cloudy	M. Morita.
Nobiru	29.98	761.6	30.00	762.0	54.6	12.6	87	n.	6.0	2.7			10 s			0	0	covered	H. Midzushina.
Numazu	29.92	759.8	29.95	760.7	65.1	18.4	86	calm			0	10cs;c	0			0	0	cloudy	R. Kaneda.
Osaka	29.96	760.9	29.97	761.3	68.6	20.3	81	w.	5.1	2.2		0	9 s			0	0	cloudy	H. Omura.
Tokei Obs'y, Yeddo	29.87	758.6	29.94	760.5	67.3	19.6	86	sse.	3.3	1.4		10 cs	0			0	0	cloudy	The Staff.
Wakayama	29.92	760.0	29.97	761.3	69.2	20.7	76	s.	1.3	0.6		3 cs	0			0	0	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.81	757.2	30.00	762.0	76.7	24.8	79	w.	6.0	2.7		1 cs	3 k;n		wnw.	0.28	7.1	fair	The Staff.
MEXICAN.																			
Guanajuato	23.72	602.6	29.94	760.6	63.1	17.3	67	e.	inap.	inap.		1 cs	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.34	618.2	29.98	761.5	61.2	16.2	88	calm	0	0		0	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	760.9	73.0	22.8	88	nw.	1.6	0.8			10 n		sw.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Zacatecas																			J. A. Bonilla, M. E.
Sub-series.																			
Altata					66	18.9	93	e.	7.4	3.3		0	1 k		se.	0	0		H. Dias Pena.
NETHERLANDS.																			
Flushing	30.25	768.4	30.25	768.4	62.4	16.9		nne.			3					0	0		
Groningen	30.19	766.9	30.25	768.3	56.8	13.8		n.			2					0	0		
Helder	30.26	768.6	30.26	768.6	56.7	13.7		ne.			2					0	0		
Hellevoetsluis	30.24	768.2	30.24	768.2	63.9	17.7	50	nne.			1					0	0		
Utrecht	30.20	767.0	30.24	768.2	63.9	17.7	56	nne.			2		2			0	0	lightly cld'y	H. van der Brink.
Sub-series.																			
Batavia, Java	29.90	759.4			80.1	26.7	77	nne.	0	0			4			0	0		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	30.13	765.4	30.20	767.0	53.6	12.0	52	nw.	20	9			3			0.024	0.6		
Bronc	30.15	765.8	30.19	766.8	50.4	10.2	70	calm			0		8			0.031	0.8		
Christiania	29.93	760.3	30.08	763.9	67.1	19.5	46	ssw.	7	3			4			0.039	1.0		
Gjæsvær	30.01	762.2	30.03	762.8	52.5	11.4		calm			0		8						
Lodingen	30.02	762.6	30.07	763.8	49.8	9.9	92	calm			0		10			0.193	4.9	foggy	
PORTUGUESE.																			
Angra, Azores	30.31	769.9	30.47	773.9	63.9	17.7	84	se.	4.9	2.2			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.10	739.1	30.06	763.4	81.5	27.5	47	ssw.	4.3	1.9			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.13	765.2	30.21	767.4	68.4	20.2	71	sw.	3.1	1.4			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	756.8	30.12	765.1	70.0	21.1	61	nne.	10.5	4.7			5			0	0		The Staff.
Ponta Delgada, Azores	30.41	772.3	30.48	774.1	65.5	18.6	64	ne.	5.6	2.5			3			0	0		
Saint Paul de Loando	29.75	755.7	29.95	760.8	70.3	24.6	87	wsw.	2.5	1.1			3	se.		0	0		
Serra da Estrella	25.45	646.3	30.05	763.3	63.0	17.2	64	ese.	8.7	3.9			5			0	0		
RUSSIAN.																			
Akmolinski	28.63	727.2	29.64	752.8	79.5	26.4	21	ssw.	7	3		7 ck	0			0	0		Major K. Lasarew.
Archangel	30.08	763.9	30.10	764.4	54.3	12.4	63	wnw.	9	4			9 ks			0	0		Capt. Sselliwerstow.
Ashurada	30.07	763.7	29.97	761.3	67.6	19.8	93	w.	13	6			10 ks			0.614	15.6		
Astrakhan	29.88	758.9	29.80	756.8	75.9	24.4	47	wsw.	13	6		0	7 ks			blank	blank		Capt. Wisganow.
Baku	29.99	761.8	29.95	760.6	70.7	21.5	71	n.	13	6		0	2 ks			0	0		
Barnaul	29.39	746.4	29.85	758.2	80.6	27.0	18	nw.	9	4			2			0	0	light clouds	Meteorological Obs'y
Bielosersk	29.52	749.9	29.99	761.8	50.7	10.4	80	nnw.	11	5			10 ks			blank	blank		
Dorpat	29.78	756.3	30.01	762.2	72.0	22.2	48	ene.	7	3		cs	9 k			0	0		Observatory.
Ekaterinburg	28.68	728.4	29.58	751.4	76.1	24.5	48	ssw.	4	2		ck	6 n			0	0		Meteorological Obs'y
Elissawetgrad	29.51	749.0	29.94	760.5	74.3	23.5	38	nw.	11	5		0	5 ks			0	0		
Irkutsk	28.38	720.9	30.02	762.4	51.3	10.7	58	calm			0		10			0.016	0.4		
Kasalinsk	29.33	744.9	29.50	749.4	88.2	31.2	33	nw.	4	2			10 k						
Kasan	29.33	745.0	29.59	751.6	68.0	20.0	71	nne.	2	1		0	8			0.980	24.9		Observatory.
Kem	30.16	766.1	30.21	767.4	43.3	6.3	75	ne.	13	6			10 k			0	0	heavy cl'ds.	
Kertch	29.97	761.3	30.00	761.9	72.3	22.4	40	n.	7	3		0	2 k			0	0		Lagorio & Saatyrea.
Kieff	29.28	743.6	29.89	759.2	69.6	20.9	54	nne.	2	1		0	6 ks			0.059	1.5		Observatory.
Koslov	29.06	738.0	29.56	751.4	55.6	13.1	90	nnw.	22	10			10 s			0.236	6.0		
Libau	30.10	764.5	30.12	765.1	59.2	15.1	46	w.	7	3			0			0	0		E. Quass.
Lugan	29.56	750.7	29.74	755.3	72.1	22.3	52	wnw.	18	8			8			0.008	0.2		Meteorological Obs'y.
Moscow	29.31	744.5	29.78	759.4	56.1	13.4	73	ne.	13.4	6.0			9 ks			0.020	0.5		Meteorological Obs'y
Nikolaiev	29.93	760.3	30.01	762.2	77.0	25.0	62	calm	0	0		0	3 k			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.65	753.1	29.74	755.3	49.8	9.9	92	e.	7	3			10			0	0		Iwanow.
Pekin, China	29.61	752.1	29.75	755.7	64.2	17.9	86	ne.	3.4	1.5			9 n			0.055	1.4		Physical Observatory.
Petro-Alexandrovsk	29.46	748.2	29.79	756.7	75.4	24.1	68	nw.	2.2	1.0			10 k			0	0		
Petrozavodsk	29.86	758.5	30.06	763.5	50.4	10.2	74	ese.	22	10		0	1 k			0	0		Dr. Bergmann.
Pinsk	29.51	749.6	29.99	761.7	74.3	23.5	48	nw.	13	6		0	4 k			0	0		
Poti	30.01	762.3	30.04	763.1	71.2	21.8	87	sw.	4	2		0	2 s			0	0		
St. Petersburg	30.02	762.6	30.05	763.2	62.2	16.8	22	ene.	9	4		0	0			0	0		Central Physical Obs'y.
Samarkand	27.43	696.7	29.74	755.5	83.7	28.7	43	calm	0	0			10 n			0	0		
Semipalatinsk	29.26	743.3	29.87	758.8	85.5	29.7	32	se.	4	2			1			0	0		Major Lasarew
Sevastopol	29.85	758.1	30.07	763.8	71.6	22.0	50	wnw.	11	5		3 cs	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Staroi Bykhov	29.51	749.6	29.96	760.9	66.0	18.9	60	n	9	4		ck	10			0.272	6.9		
Tashkend	28.20	716.3	29.74	755.3	91.0	32.8	30	calm	0	0		0	4 kn			0	0		Terch, A. M.
Tiflis	28.60	726.3	29.97	761.2	72.0	22.2	44	nw.	22	10		0	1 k			0	0		Physical Observatory.
Vernoe	27.37	695.3	29.72	754.9	82.0	27.8	33	e.	2	1		0	6 k						
Viatka	29.10	739.2	29.72	754.8	58.6	14.8	73	n.	4	2			6			0	0		
Warsaw	29.65	753.2	30.07	763.7	69.3	20.7	31	n.	4	2		0	0			0	0		Astronomical Obs'y.
Yeniseisk	29.62	752.4	29.91	759.6	48.9	9.4	57	wnw.	2	1			10			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.83	757.7	53	11.7	93						10			0.3	8.	rainy	J. Youngclauss.
North Unst			30.08	764.0				s.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.05	763.2	30.15	765.9	71.6	22.0	66	se.	3.1	1.4		0	2 k			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.13	765.3	30.19	766.8	72.7	22.6	55	s.	2.2	1.0		3	0	ne.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.22	691.3	30.11	764.8	67.1	19.5	44	ne.	8.3	3.7		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.91	708.8	30.03	762.8	79.9	26.6	43	s.	6.5	2.9		0	2			0.252	6.4		The Staff.
Murcia, Met. Obs'y	29.94	760.5	30.08	764.0	82.8	28.2	65	ese.	2.0	0.9		2	1	w.		0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.39	746.5	30.24	768.2	62.6	17.0	82	n.	7.4	3.3		4 n	4 k	ne.	ne.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.20	741.7	30.08	763.9	69.3	20.7	62	n.	11.2	5.0			2			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	761.9	30.06	763.5	81.2	27.3	73	e.	4.5	2.0		rck;cs	ks	wnw.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.3	29.84	757.8	80.5	26.9	83	s.	46.8	20.9			10 kn			0	0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	761.9	30.09	764.3	80.2	26.8	43	e.	11.0	4.9		3	4	e.	e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.6	30.04	762.9	82.4	28.0	72	se.	5.6	2.5		2 k	4 kn	se.	se.	0.197	5.0	cloudy	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.06	763.5	30.10	764.5	70.5	21.4	45	s.			2		0			0	0		
Umea	30.02	762.4	30.07	763.7	70.5	21.4	22	sw.			2		1			0	0		
Hernosand	29.99	761.8	30.04	763.1	64.8	18.2	30	s.			2		0			0	0		
Stockholm	29.89	759.1	30.06	763.6	74.7	23.7	28	wsw.			2		1			0	0		
Wisby	30.01	762.3	30.07	763.8	58.3	14.6	53	w.			2		0			0	0		
Sub-series.																			
Upsala	29.93	760.1	30.01	762.3	74.8	23.8	34	sw.	4.3	1.9			2		w.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.67	728.1	30.06	763.6	63.7	17.6	75	s.			2		10			0.154	3.9	covered	The Observatory.
TURKISH.																			
Constantinople			29.99	761.8	81.5	27.5	52	nne.	12	5.5			3		sw.	0	0		The Observatory.
Valona			30.07	763.7	79.2	26.2		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.97	761.2	78.1	25.6	65	n.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.80	680.7			71	21.7	84						6 k		w.	0	0		Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.67	753.6	29.75	755.6	65	18.3	70	s.	8	3.6			10 s		s.	0.03	0.8	cloudy	J. O. Barnes.
Alpena, Michigan	29.19	741.4	29.85	758.2	46	7.8	77	w.	12	5.4		3 k	2 s	nw.		0.36	9.1	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.89	759.2	42	5.6	63	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.78	680.2	29.62	752.3	50	10.0	66	sw.	12	5.4			10 s		sw.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.87	733.3	30.04	763.0	66.0	18.9	90	w.	5	2.2		0	8 k		w.	0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.89	759.2	29.90	759.4	61	16.1	93	sw.	15	6.7			10s;fg			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.84	757.9	30.03	762.7	72.0	22.2	90	s.	3	1.3			10 s		sw.	0.58	14.7	cloudy	John Healy.
Baltimore, Maryland	29.86	758.4	29.91	759.7	71	21.7	71	sw	8	3.6			10 s		sw.	0.04	1.0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	29.85	758.2	29.87	758.7	62.0	16.7	100	sw.	22	9.8			fg.			0.17	4.3	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.79	756.7	29.81	757.2	36.0	2.2		w.	10	4.5		0	9 k			0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.21	716.5	29.77	756.1	47.5	8.6	83	se.	7	3.1		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	26.84	681.7	29.64	752.8	40	4.4	50	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.48	672.0	29.66	753.4	45	7.2	71	sw.	4	1.8		1 c	0	w.		0	0	clear	T. Gibson.
Bismarck, Dakota	27.96	710.2	29.75	755.6	53	11.7	67	se.	4	1.8		3 c	2 k	w'	nw.	0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	29.90	759.4	29.93	760.2	58	14.4	96	s.	28	12.5			10 n		s.	0.14	3.6	heavy rain	J. T. Elker.
Boise City, Idaho	27.03	686.5	29.87	758.7	58	14.4	86	nw.	2	0.9			10 s			0.04	1.0	cloudy	J. Kenealy.
Boston, Massachusetts	29.72	754.9	29.88	758.9	63.0	17.2	91	s.	17	7.6			10 n		s.	0.03	0.8	light rain	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	78.0	25.6	95	ne.	2	0.9			10 s		ne.	0.05	1.3	cloudy	M. McCarty.
Buffalo, New York	29.15	740.4	29.89	759.2	47	8.3	93	sw.	32	14.3			10 ks		w.	0.78	19.8	cloudy	W. Finn.
Buford, Fort, Dakota	27.71	703.8	29.69	754.1	48	8.9	71	e.	8	3.6		0	0			0	0	clear	F. A. Mellen.
Burlington, Vermont	29.34	745.2	29.63	752.6	61.0	16.1	93	s.	19	8.5			10 n		w.	0.30	7.6	light rain	D. N. Farnell.
Cairo, Illinois	29.76	755.9	30.16	766.1	56.6	13.7	76	n.	6	2.7		0	0			0.45	11.4	clear	W. H. Ray.
Cape Henry, Virginia	29.94	760.5	29.96	761.0	70	21.1	100	s.	8	3.6			10 n		s.	0.02	0.5	light rain	A. K. Alderson.
Cape May, New Jersey	29.86	758.4	29.89	759.2	64.0	17.8	90	s.	24	10.7		0	7 s		s.	0.07	1.8	fair	W. E. Smith.
Cape Mendocino, California	29.22	742.2	29.90	759.4	45	7.2	100	nw.			2		10 s		nw.	0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	30.02	762.5	30.04	763.0	76	24.4	88	s.	9	4.0		2 c	0			0.61	15.5	clear	G. W. Davis.
Charleston, S. Carolina	29.96	761.0	30.01	762.2	75	23.9	90	sw.	1	0.4		3 ck	3 s	w.	sw.	0.43	10.9	fair	J. H. Smith.
Charlotte, N. Carolina	29.11	739.4	29.95	760.7	72.0	22.2	82	sw.	2	0.9			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.26	743.2	30.07	763.8	62.0	16.7	72	n.	6	2.7		3 k	6 s	w.	w.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.96	608.6	29.82	757.4	40.9	4.9	65	w.	4	1.8		5 c	0	w.		0	0	fair	E. McGovern.
Chicago, Illinois	29.33	745.0	30.03	762.7	50.2	10.1	76	nw.	5	2.2		0	0			0.56	14.2	clear	John Laurens.
Chincoteague, Virginia	29.91	759.7	29.93	760.2	65	18.3	100	s.	10	4.5			10s;fg		sw.	0.21	5.3	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.42	747.3	30.07	763.8	57.0	13.9	83	w.	3	1.3		3 c	0	w.		0.12	3.0	clear	L. Dunne.
Cleveland, Ohio	29.23	742.4	29.96	761.0	54.3	12.4	74	w.	8	3.6		3 k	0	w.		0.50	12.7	clear	J. B. Newlin.
Coleman City, Texas	28.31	719.1	30.10	764.5	56	13.3	80	e.	1	0.4		4 ck	0			0	0	fair	T. J. Kenan.
Columbus, Ohio	29.17	740.9	30.01	762.2	53	11.7	86	sw.	2	0.9			10 s		sw.	0.35	8.9	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.15	715.0	30.05	763.3	55.3	12.9	86	ne.	4	1.8		5 cs	0			0	0	fair	J. McGlone.
Davenport, Iowa	29.42	747.3	30.06	763.5	50	10.0	72	nw.	4	1.8		0	hz.			0.29	7.4	clear	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.96	761.0	63	17.2	56	sw.	2	0.9		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.15	715.0	29.90	759.4	50	10.0	70	s.	4	1.8		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.15	638.8	29.67	753.6	47	8.3	74	w.	4	1.8		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	29.89	759.2	29.91	759.7	68	20.0	93	s.	26	11.6			9 s		s.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.63	625.6	29.79	756.7	47.0	8.3	74	s.	4	1.8		7 c	0	w.		0	0	fair	F. M. Neal.
Des Moines, Iowa	29.21	741.9	30.10	764.5	45	7.2	83	calm	0	0		3 cs	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.24	742.7	29.94	760.5	53.0	11.7	80	sw.	10	4.5		0	2 k			0.28	7.1	clear	E. R. Brace.
Dodge City, Kansas	27.45	697.2	30.00	762.0	48	8.9	80	w.	16	7.2		3 c	0	sw.		0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.30	745.7	30.06	763.5	49	9.4	68	calm	0	0		0	hz.			0.01	0.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.29	744.0	30.04	763.0	48	8.9	77	calm	0	0		0	0			0.01	0.3	clear	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.08	764.0	74.3	23.5	64	se.	7	3.1		0	5 s		se.	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.05	636.3	29.73	755.1	43	6.1	58	n.	9	4.0		8 c;k	0	w.		0	0	cloudy	H. R. Boynton.
Eastport, Maine	29.98	761.5	30.05	763.3	51.0	10.6	83	se.	16	7.2			10 ks		se.	inap.	inap.	threatening.	D. O. Murphy.
Elliott, Fort, Texas	27.33	694.2	30.03	762.7	43	6.1	60	s.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.26	667.0	29.90	759.4	69.0	20.6	19	se.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.22	742.2	29.94	760.5	53	11.7	80	sw.	8	3.6		0	8 s		w.	0.76	19.8	cloudy	C. A. Shaw.
Escanaba, Michigan	29.28	743.7	29.94	760.5	44.0	6.7	64	nw.	14	6.3			10 ks		nw.	inap.	inap.	cloudy	George Heathcote.
Galveston, Texas	29.98	761.5	30.02	762.5	73	22.8	84	ne.	12	5.4		5 cs	4 ks		ne.	0.60	15.2	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.33	745.0	29.99	761.7	48.0	8.9	77	w.	15	6.7		0	4 k		w.	0.44	11.2	fair	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	29.84	757.9	60.9	16.1	35	n.	6	2.7		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.01	762.2	30.03	762.7	70	21.1	100	sw.	23	10.3			10 n		*w.	0.49	12.4	light rain	R. M. Crawford.
Helena, Montana	25.55	649.0	29.72	754.9	48	8.9	66	sw.	6	2.7		0	0			0	0	clear	N. C. Smith.
Huron, Dakota	28.48	723.4	29.83	757.7	49.9	9.9	79	se.	16	7.2		5cs;k	0	se.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.25	742.9	30.04	763.0	54.3	12.4	74	nw.	6	2.7		0	0			0.15	3.8	clear	C. F. R. Wappenhans.
Indianola, Texas	29.98	761.5	30.00	762.0	73.4	23.0	84	n.	18	8.0		0	8 s		n.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.98	736.1	30.13	765.3	54	12.2	62	se.	3	1.3		0	0			0	0	clear	D. J. Carr.
Jacksonville Florida	30.00	762.0	30.04	763.0	78	25.6	82	s	6	2.7		3 cs	2 k		sw.	0.71	18.0	fair	J. W. Smith.

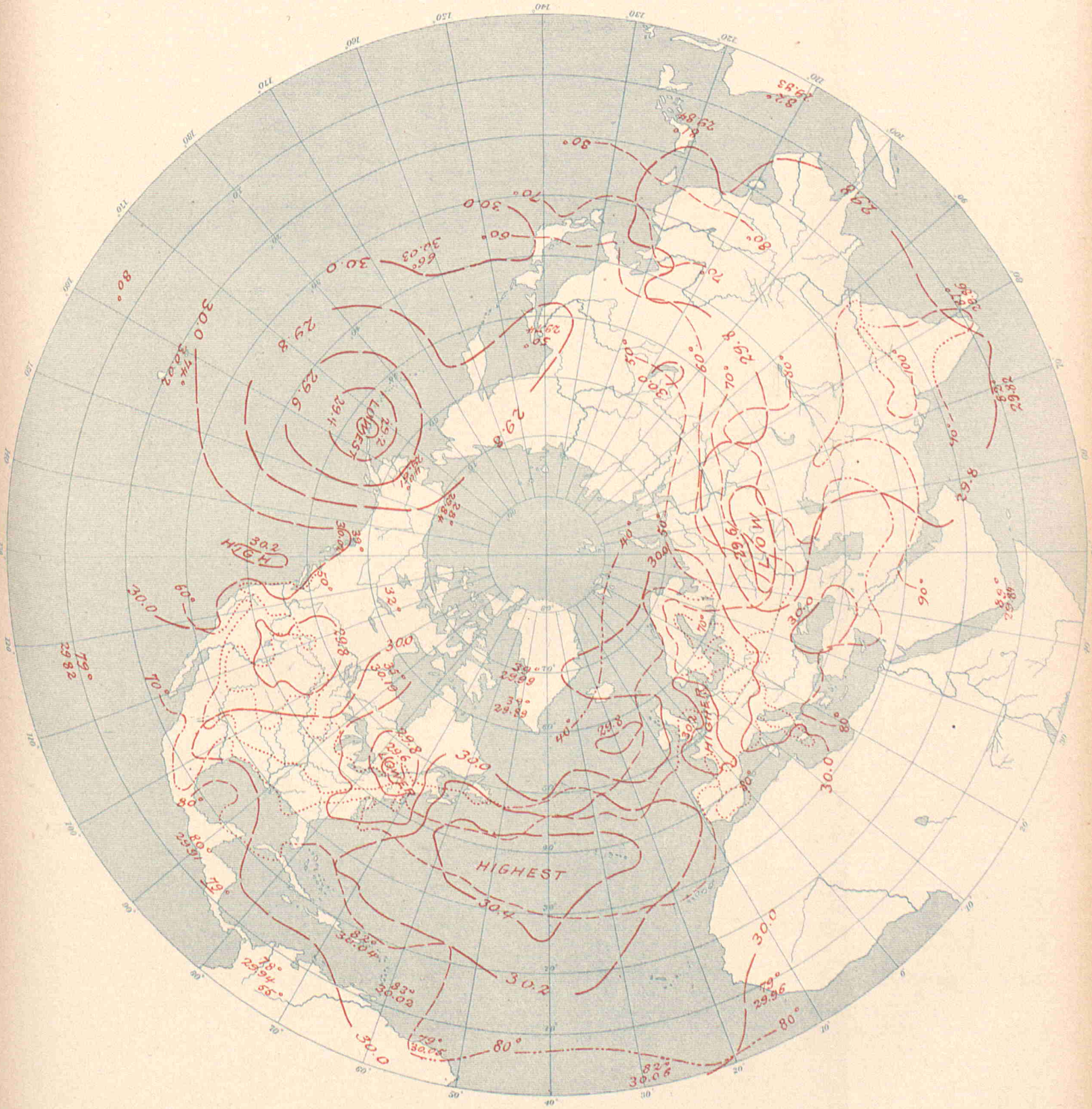
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Keogh, Fort, Montana	27.17	690.1	29.62	752.3	48	8.9	71	se.	4	1.8		0	6 ks			0	0	fair	W. B. Lamar.
Keokuk, Iowa	29.46	748.3	30.11	764.8	55.0	12.8	62	w.	3	1.3		0	0			0.13	3.3	clear	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	84.0	28.9	80	se.	3	1.3		1 cs	3 k		se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	70.5	21.4	94	sw.	21	9.4			10 ks		sw.	0.49	12.4	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	29.06	738.1	30.08	764.0	58.2	14.6	79	ne.	6	2.7		6 k	3 s	w.	ne.	0.62	15.7	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.29	744.0	30.05	763.3	54	12.2	61	w.	2	0.9		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.25	742.9	30.13	765.3	51	10.6	66	s.	2	0.9		0	0			0.01	0.3	clear	A. W. Brown.
Lewiston, Idaho	28.99	736.3	29.83	757.7	58.5	14.7	38	w.	7	3.1		0	8 s		w.	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.82	757.4	30.12	765.0	59	15.0	75	calm	0	0		0	0			0.15	3.8	clear	W. U. Simons.
Los Angeles, California	29.62	752.3	30.02	762.5	55	12.8	86	w.	1	0.4			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.51	749.5	30.06	763.5	58	14.4	80	w.	7	3.1		0	0			0.12	3.0	clear	L. M Dey.
Lynchburg, Virginia	29.24	742.7	29.92	760.0	71	21.7	84	sw.	2	0.9			10 n		sw	inap.	inap.	light rain	Louis Duane.
Mackinaw City, Michigan	29.22	742.2	29.88	758.9	42.1	5.6	93	nw.	16	7.2			10 s		nw.	0.72	18.3	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.03	762.7	30.04	763.0	71.0	21.7	94	s.	17	7.6			10 n		sw.	0.47	11.9	light rain	William Daly.
Maginnis, Fort, Montana	25.27	641.8	29.68	753.9	50	10.0	41	w.	13	5.8		6 ck	0	w.		0	0	fair	F. Burke.
Marquette, Michigan	29.21	741.9	29.93	760.2	42	5.6	73	nw.	13	5.8		7 k	0	nw.		0.22	5.6	fair	E. H. Thompson.
Memphis, Tennessee	29.78	756.4	30.10	764.5	62	16.7	84	nw.	2	0.9		0	0			0.73	18.5	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.29	744.0	30.03	762.7	47	8.3	68	nw.	10	4.5		0	0			0.30	7.6	clear	W. Line.
Missoula, Fort, Montana	26.47	672.3	29.77	756.1	50	10.0	66	ne.	3	1.3		0	3 ks			0	0	clear	J. H. Young.
Mobile, Alabama	30.02	762.5	30.06	763.5	69.4	20.8	89	calm	0	0		2 ck	1 ks	sw.		0.99	25.1	clear	C. A. Read.
Montgomery, Alabama	29.77	756.1	30.00	762.0	64.2	17.9	98	w.	1	0.4			fg.			1.37	34.8	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	28.95	735.3	29.93	760.2	42	5.6	82	se.	15	6.7		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.64	600.4	29.82	757.4	41.0	5.0	100	sw.	64	28.6			10n;fg		sw.	1.02	25.9	heavy rain	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.11	764.8	59.0	15.0	87	nw.	3	1.3		0	0			0.45	11.4	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.72	754.9	29.84	757.9	61.5	16.4	96	s.	12	5.4			10 s		s.	0.23	5.8	cloudy	J. H. Sherman.
New London, Connecticut	29.85	758.2	29.90	759.4	60	15.6	100	s.	18	8.0			10 n			0.23	5.8	light rain	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	70.5	21.4	90	se.	4	1.8		2 cs	7 s		nw.	0.58	14.7	cloudy	H. C. Smyth.
New York, New York	29.68	753.9	29.86	758.4	63	17.2	93	s.	8	3.6		0	9 s		s.	0.04	1.0	cloudy	G. E. Franklin.
Norfolk, Virginia	29.93	760.2	29.96	761.0	72	22.2	90	sw.	10	4.5			10 s			0.01	0.3	cloudy	Wm. Davis.
North Platte, Nebraska	27.00	685.8	29.87	758.7	51.6	10.9	66	s.	24	10.7		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.02	762.5	30.06	763.5	39.0	3.9	82	w.	2	0.9			10 s		w.	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.92	734.6	30.08	764.0	54.7	12.6	64	s.	2	0.9		0	0			0	0	clear	A. Pollak.
Ogglaamie, Alaska	29.82	757.4	29.84	757.9	27.6	— 2.4	100	e.	18	8.0		3 k	6 s	sw.	sw.	0	0	cloudy	P. H. Ray.
Oswego, New York	29.46	748.3	29.79	756.7	55.0	12.8	74	w.	20	8.9			10 s		w.	0.67	17.0	cloudy	J. G. Linsley.
Palestine, Texas	29.55	750.6	30.10	764.5	64.0	17.8	78	ne.	10	4.5		5 ck	0	w.		0.02	0.5	fair	L. M. Pindell.
Pensacola, Florida	30.03	762.7	30.06	763.5	65.4	18.6	96	nw.	4	1.8			10 s			3.80	96.5	cloudy	M. McGauran.
Philadelphia, Pa	29.78	756.4	29.88	758.9	71.5	21.9	95	sw.	15	6.7		3 cs	2 ks;fg		sw.	0.03	0.8	fair	T. F. Townsend.
Pike's Peak, Colorado	17.88	454.1	29.94	760.5	24	— 4.4	73	nw.	53	23.6		0	0			0	0	clear	H. Hall.
Pioche, Nevada	23.98	609.1	29.90	759.4	51.0	10.6	57	s.	2	0.9		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.19	741.4	29.99	761.7	55.5	13.1	77	sw.	9	4.0			10 k		w.	0.62	15.7	cloudy	W. A. Reid.
Poplar River, Montana	27.57	700.3	29.69	754.1				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.20	741.7	29.88	758.9	50.0	10.0	93	sw.	10	4.5			10 s		w.	0.23	5.8	cloudy	M. H. Perry
Portland, Maine	29.81	757.2	29.86	758.4	57.5	14.2	86	s.	19	8.5			10 n		s.	0.11	2.8	light rain	W. W. Eichelberger
Portland, Oregon	29.98	761.5	30.05	763.3	46.0	7.8	83	w.	3	1.3		0	7 ks		nw.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					72	22.2	100	sw.	20	8.9			10 n		sw	0.86	21.8	light rain	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	29.85	758.2	47.5	8.6	42	s.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.93	760.2	29.90	761.0	61	16.1	93	sw.	16	7.2			10 n		sw.	0.31	7.9	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.04	763.0	30.05	763.3	78.5	25.8	89	se.	10	4.5		0	9s;ks			0	0	threatening	W. J. Evans.
Red Bluff, California	29.54	750.3	29.89	759.2	60	15.6	70	s.	5	2.2		0	6 ks		n.	0	0	fair	J. R. Williams.
Rochester, New York	29.17	740.9	29.83	757.7	51	10.6	80	w.	25	11.2			10 k		w.	0.47	11.9	clearing	E. W. McGann.
Roseburg, Oregon	29.46	748.3	30.00	762.0	41	5.0	80	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.83	757.7	29.91	759.7	58.5	14.7	81	s.	12	5.4			10 s			0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.55	750.6	30.14	765.5	51.5	10.8	90	w.	11	4.9		0	0			0.23	5.8	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.57	751.1	29.61	752.1	40	4.4	82	e.	3	1.3		0	5 s		e.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.16	740.7	30.00	762.0	45.5	7.5	80	calm	0	0		0	hz.			0.08	2.0	clear	P. F Lyons.
St. Vincent, Minnesota	29.02	737.1	29.88	758.9	45	7.2	76	s.	12	5.4		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.46	646.7	29.78	756.4	64	17.8	37	se.	3	1.3		4 k	0	sw.		0	0	fair	J. Craig.
San Antonio, Texas	29.36	745.7	30.06	763.5	65	18.3	73	n.	4	1.8		0	0			0.15	3.8	clear	J. H. Davis.
San Diego, California	29.88	758.9	29.96	761.0	61.3	16.3	70	nw.	1	0.4			10 s			0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	29.82	757.4	29.85	758.2	70.0	21.1	90	sw.	24	10.7			10 s		sw.	0.02	0.5	cloudy	B. A. Blundon.
Sanford, Florida	30.00	762.0			75	23.9	85	sw.	0	2.7			10 n			0.05	1.3	light rain	J. B. Marbury.
San Francisco, California	29.87	758.7	29.94	760.5	56	13.3	90	w.	6	2.7			10 s		sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.28	591.3	29.89	759.2	51	10.6	47	e.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.94	760.5	30.02	762.5	74	23.3	84	sw.	5	2.2			10 ks		sw.	0.98	24.9	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.03	661.2	29.93	752.6	52	11.1	61	sw.	11	4.9		8 cs	0	w.		0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.85	758.2	30.09	764.3	62.5	16.9	86	n.	0	2.7		0	6 s		n.	0.82	20.8	fair	L. A. Welsh.
Sill, Fort, Indian Territory	28.92	734.6	30.14	765.5	59.5	10.3	71	n.	1	0.4		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.96	761.0	30.02	762.5	38.5	3.6	62	e	6	2.7		0	4 ks		e.	0.16	4.1	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.68	753.9	30.15	765.8	54.0	12.2	86	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.98	761.5	30.02	762.5	73	22.8	90	w.	8	3.6			10 s		w.	0.51	13.0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.86	707.0	29.91	759.7	46	7.8	63	sw.	4	1.8		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.43	747.5	30.10	764.5	51.5	10.8	72	w.	3	1.3		0	0			0.56	14.2	clear	T. B. Jennings.
Springfield, Missouri	28.72	729.5	30.14	765.5	49.5	9.7	86	nw.	1	0.4		0	0			0.03	0.8	clear	J. H. Bryce.
Starkville, Miss	29.60	751.8	30.07	763.8	64	17.8	84	n.	7	3.1		4 c	2 s	nw.		0.39	9.9	fair	C. Dill.
Stevenson, Fort, Dakota																			A. Schneider.
Stockton, Fort, Texas	27.03	686.5	30.04	763.0	62	16.7	84	se.	8	3.6			10 ks		e.	0	0	cloudy	A. J. Warren.
Thatcher's Island, Mass	29.85	758.2	29.90	759.4	55.0	12.8	93	s.	23	10.3			fg.			0.04	1.0	dense fog	G. Liebmann.
Thomas, Camp, Arizona	27.18	690.4	29.85	758.2	55	12.8	57	calm			0	4 ck	0			0	0	fair	J. T. Fitzgerald.
Toledo, Ohio	29.27	743.4	29.95	760.7	57	13.9	80	w.	7	3.1		hz.	3 k		w.	0.23	5.8	clear	A. Buell.
Tucson, Arizona	27.49	698.2	29.83	757.7	62	16.7	38	s.	4	1.8		0	5 k			0	0	fair	J. L. Whiteside.
Unalaska, Alaska	29.12	739.6	29.14	740.1	39	3.9	82	s.	5	2.2			10 s		s.	0.12	3.0	threatening	Samuel Applegate.
Verde, Fort, Arizona					56	13.3	37	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.82	757.4	30.07	763.8	66.5	19.2	84	ne.	7	3.1			10 s		ne.	0.24	6.1	cloudy	James Kenealy.
Visalia, California	29.51	749.5	29.88	758.9	60.3	15.7	71	nw.	7	3.1			10 s		nw.	0	0	cloudy	O. D. Stewart.
Washakie, Fort, Wyoming	24.33	618.0	29.81	757.2	38.0	3.3	83	sw.	4	1.8		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.80	756.9	29.91	759.7	70.5	21.4	84	sw.	4	1.8			10 s		sw.	0.01	0.3	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.98	659.9	29.83	757.7	47	8.3	86	w.	4	1.8		8 ck	0	w.		0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.31	744.5	29.91	759.7	60	15.6	65	w.	12	5.4			8 ks		w.	0.29	7.4	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.97	761.2	30.02	762.5	74	23.3	84	w.	4	1.8		7 k;hz	0	w.		0.80	20.3	fair	Samuel A. Haney.
Winnemucca, Nevada	25.45	646.4	29.80	756.9	58	14.4	67	sw.	9	4.0		0	8 s		sw.	0	0	cloudy	J. Grover.
Yankton, Dakota	28.65	727.7	29.93	760.2	54	12.2	55	s.	5	2.2		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.77	756.1	66.4	19.1	45	sw.	4	1.8		0	1 k		s.	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			54.5	12.5	74	sw.	5	2.2			9ks;s		nw.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.02	762.5			74	calm	0	0		3 ck	4 s		e.	0.06	1.5	fair	Robirt Johnston.
Paramaribo, S. A.	30.04	763.0	30.05	763.3	79	26.1	87	sse.			2	4 c	5 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	78	25.6	89	calm			0	6 c	1 k	s.	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79.4	26.3	91	ne.			1		ks		ne.	0.4	10.		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
Santiago de Cuba, W. I.	29.99	761.7	30.02	762.5	80	26.7	69	n.	4	1.8		6 cs	0			0	0		R. Mason.
York Factory, B. A.	30.13	765.3	30.19	766.8	34.5	1.4	95	nw.	7	3.1		1 c	1 s	w.	nw.	0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandria, N. 43° 07′ E. 17° 12′	29.97	761.2	75	23.9	68	sse			2		2		sse.					d. clouds.
H. M. S. Himalaya, N. 36° 07′, W. 4° 54′	30.05	763.3	73	22.8	85	e.			2		4					1	ene.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.96	761.0	76	24.4	90	nne.			3		0							blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.12	765.0	62	16.7	83	nnw.			5		3	s.				3	n.	misty.
H. M. S. Opal, N. 24° 20′, W. 21° 41′	30.10	764.5	72	22.2	90	nne.			3		4	nne.				2	nne.	d. clouds.
H. M. S. Rocket, N. 50° 00′, W. 4° 09′	30.20	767.1	63	17.2	89	ssw.			2		3							d. clouds.
H. M. S. Tyne, Barbadoes, W. I.	30.09	764.3	80	26.7	87	e.			3		2	e.						d. clouds.
H. M. S. Tenedos, St. Johns, N.F.	30.20	767.1	52	11.1	60	wsw.			6		4	wsw.						squally.
U. S. Navy Yard, Pensacola, Fla	30.02	762.5	68	20.0	95	nnw.	2	0.9			8		nw.	0.15	3.8			fair.
U. S. Navy Yard, Portsmouth, N.H.*	29.71?	754.6?	56	13.3	94	se.	10	4.5			10		se.	0.1	3.			raining.
U. S. S. Alliance, Norfolk, Va	29.96	761.0	73	22.8	95	ssw.			2		8			light	light			overcast.
U. S. S. Colorado, New York, N. Y.	29.96	761.0	64	17.8	83	se.	5	2.2			10			0.05	1.3			cloudy.
U. S. S. Franklin, Norfolk, Va	29.95	760.7	73	22.8	100	s.	14	6.3			10		sw.	0.32	8.1			cloudy.
U. S. S. Jamestown, Newport, R.I.*†	30.00	762.0	58	14.4	94	s.			3		10							raining.
U. S. S. Kearsarge, New York, N.Y.	29.81	757.2	64	17.8	94	s.			3		10		s.					misty.
U. S. S. Lancaster, Kronstadt, Russia	30.03	762.7	64	17.8	53	ene.			1		0					sm'h		clear.
U. S. S. Michigan, Erie, Pa.			56	13.3	81	ssw.			2		8		sw.					fair.
U. S. S. Minnesota, New York, N. Y.	29.83	757.7	65	18.3	89	ssw.			4		10		wsw.					overcast.
U. S. S. New Hampshire, Newport, R. I.	29.92	760.0	60	15.6	100	ssw.			5-6		10		ssw.			sm'h		cloudy.
U. S. S. Portsmouth, Newport, R.I.	30.02	762.5	60	15.6	94	se.			5		10		s.					dense mist.
U. S. S. Powhatan, N. 25° 05′, W. 80° 05′	30.07	763.8	84	28.9	91	e.			3		2					sm'h	e.	clear.
U. S. S. Quinnebaug, Grand Bassa, West Africa	29.95	760.7	81	27.2	87	nw.			1		8		nw.			sm'h	sw.	sprinkling.
U. S. S. Saratoga, New York, N.Y	29.85	758.2	64	17.8	?	s.			3		8		s.	light	light	sm'h	s.	cloudy.
U. S. S. St. Louis, League Island, Pa.	29.85	758.2	71	21.7	85	sw.	17.7	7.9			8		sw.	0.02	0.5			cloudy.
U. S. S. Swatara, Key West, Fla †	30.07	763.8	82	27.8	87	ne.			2		2		ne.	0	0	sm'h		fair.
U. S. S. Tennessee, New York, N.Y.	29.85	758.2	68	20.0	90	sse.	10	4.5			1		sw.	0.06	1.5			clearing.
U. S. S. Vandalia, New York, N.Y.	29.82	757.4	62	16.7	100	s.			3		10		sw.					cloudy.
U. S. S. Wabash, Boston, Mass.	29.88	758.9	65	18.3	89	sw.	12	5.4			10		sw.	0.40	10.2			cloudy.
U. S. S. Yantic, New York, N. Y.	29.84	757.9	64	17.8	89	ssw.			2		1		sw.					clear.
Commewyne, N. 49° 24′, W. 10° 44′	30.01	762.2	57	13.9	90	wsw.			4		9							misty.
S. S. Inchkeith, N. 29° 00′, W. 40° 16′	30.43	772.9	71	21.7	74	ne.			4		4							d. clouds.
S. S. British Prince, N. 41° 38′, W. 47° 43′ †	30.46	773.7	62	16.7		wnw.			3		6?		w.	6 h'r	6 h'r	sll't	wsw.	clear?
S. S. Illinois, Delaware river	29.82	757.4	70	21.1		w.			3		5		w.					fair.
S. S. Ohio, Delaware river †	29.91	759.7	67	19.4	95	ssw.			4		5?		sw.	1 h'r	1 h'r			clear?
S. S. Pennsylvania, Liverpool, Eng †	30.01	762.2	54	12.2		nw.			2		8		sw.					overcast.
S. S. Grecian, Glasgow, Scotland	30.04	763.0	59	15.0	88	s.			4		10		ssw.	5 h'r	5 h'r			cloudy.
S. S. Manitoban, N. 47° 43′, W. 50° 00′	30.17	766.3	48	8.9	78	w.			5		4		sw.	4 h'r	4 h'r	sm'h	s.	clear.
S. S. Alene, Kingston, Jamaica, W. I. †	30.09	764.3	80	26.7		var.			2		0			0	0	sm'h	sw.	fine.
S. S. Ailsa, N. 36° 10′ W. 74° 00′ †	29.92	760.0	72	22.2		s.			4				s.	16 h'r	16 h'r	mod.	s.	heavy rain.
S. S. Anchoria, N. 45° 45′, W. 42° 20′ †	30.32	770.1				w.			5		3		wnw.	3 h'r	3 h'r	sll't	w.	fine.
S. S. Assyria, N. 40° 47′, W. 54° 26′	30.51	774.9	66	18.9		ene.			3		3		ene.	0	0	sm'h		clear.
S. S. Bolivia, N. 41° 33′, W. 63° 24′ *†	30.41	772.4	61	16.1		s.			2		0			0	0	sm'h	w.	clear.
S. S. Dorian, N. 49° 56′, W. 19° 50′	29.99	761.7	54	12.2		wnw.			6		6		nw.	sh'rs	sh'rs	mod.	wnw.	raining.
S.S. Devonia, N. 47° 10′, W. 39° 57′ *†	30.10	764.5	59	15.0		sw.			5		8		sw.			short	sw.	cloudy
S. S. Furnesia, N. 44° 15′, W. 42° 12′ †	30.22	767.6	76	24.4	97	sw.			3		10		wsw.	4 h'r	4 h'r	sm'h		hazy.
S. S. Llandaff City, N. 40° 48′, W. 62° 38′			68	20.0		sw.			3		3		s.	0	0	sm'h		fine.
S. S. Marathon, N. 38° 15′, E. 14° 43′	30.14	765.5	76	24.4		nw.			3		1		nw.	0	0	sm'h	nw.	clear.
S. S. Colina, N. 49° 35′ W. 68° 25′ †	29.95	760.7				e.			1		10		e.	0	0	sm'h	e.	foggy.
S. S. France, N. 40° 26′, W. 68° 51′ †	29.99	761.7	55.4	13		s.			5		10		sw.	rain	rain	sm'h	s.	fine.
S. S. Ville de Marseilles, N. 33° 35′, W. 41° 30′			65	18.3		e.			5		4		ene.	1 h'r	1 h'r	r'gh	e.	fair.
S. S. Arizona, N. 41° 15′ W. 59° 50′	30.43	772.9	63	17.2		ese.			3		5		se.	0	0	sm'h		fair.
S. S. Wisconsin, N. 51° 20′, W. 12° 20′			58	14.4		s.			3		3		ssw.	0	0	mod.	wsw.	fair
S. S. Wyoming, N. 47° 35′ W. 35° 14′	30.19	766.8	54	12.2		var.			2		8		w	4 h'r	4 h'r	long	wsw.	foggy.
S. S. Bohemia, N. 43° 43′, W. 48° 42′						w.			4		3		w.	6 h'r	6 h'r	mod.	w.	fair.
S. S. Gellert, N. 51° 47′, E. 2° 38′	30.18	766.6	70	21.1	75	nnw.			1		1		n	0	0	sm'h	nnw.	clear.
S. S. Rugia, Hamburg, Germany	30.20	767.1	84	28.9		n.			3		2		n.	0	0			fair.
S. S. Silesia, N. 20° 00′, W. 62° 26′	30.19	766.8	79	26.1		ne.			5		6		ne.	0	0	6	ne.	fair.
S. S. City of Berlin, N. 43° 46′, W. 49° 18′	30.38	771.6	50	10.0	93	w.			2		0			2 h'r	2 h'r	sll't	wsw.	clear.
S. S. City of Paris, N. 41° 18′, W. 57° 40′						nw.			2		0			0	0	mod.	nw.	clear.
S. S. Virginian, N. 40° 59′, W. 49° 12′ *	30.46	773.7	66	18.9		var.			4		10		nnw.	1 h'r	1 h'r	sm'h		raining.
H. M. S. Thetis, N. 3° 50′, W. 19° 52′	30.03	762.7	77	25.0	77	sw.			3		6					3	s.	d. clouds.
S. S. Archimedes, N. 30° 00′ W. 65° 58′	30.25	768.3				ese.			4		2		calm	0	0	light	ese.	clear.
S. S. Colorado, N. 27° 34′, W. 90° 24′ †	30.00	762.0	78	25.6		se.			4		2		se.	0	0	mod.	se.	clear.
S. S. Rio Grande, Galveston, Texas *†	30.03	762.7	81	27.2		nne.			3		7		nne.	2 h'r	2 h'r			fair.
S. S. Chalmette, N. 24° 34′, W. 81° 15′ †	30.16	766.1	80	26.7		ese.			4		3		e.	0	0	sm'h		clear.
S. S. Lone Star, N. 29° 56′, W. 79° 40′ †	30.07	763.8	78	25.6		sw.			2		5			4 h'r	4 h'r	mod.	s.	squally.
S. S. Alleghany, Boston, Mass			62	16.7		sw.			4		8		s.	light	light			squally.
S. S. Archimede; Marseilles, France †	30.11	764.8	70	21.1	66	nw.			4		2		nw.	0	0			clear.
S. S. City of Merida, N. 22° 31′, W. 85° 24′ †	30.11	764.8	77.0	25.0		ne.			2		5		ne.	0	0	light	ne.	fair.
S. S. City of Washington, Vera Cruz, Mexico			81	27.2		s.			2		8		s.	0	0	sm'h		cloudy.
S. S. Denmark, London, Eng †	30.18	766.6	68	20.0		se.			6		2		se.	0	0			clear.
S. S. Egypt, N. 40° 51′ W. 50° 27′ *†	30.40	772.1	67	19.4		n.			3		5		n.	2 h'r	2 h'r	mod.	wnw.	fair.
S. S. England, Queenstown, Ireland	30.00	762.0	48	8.9		sw.			5		10		sw.	shr's	shr's	mod.	sw.	squally.
S. S. Helvetia, Liverpool, Eng	30.12	765.0	62	16.7	83	s.			4		10		s.	12 h'r	12 h'r			cloudy.
S. S. Holland, N. 50° 04′, W. 4° 32′	30.11	764.8	61	16.1		s.			4		8		se.	3 h'r	3 h'r	sm'h	s.	cloudy.
S. S. Braunschweig, N. 51° 27′, E. 1° 54′	30.31	769.9	70.0	21.1		calm			0		0			0	0	sm'h		clear.
S. S. Elbe, near Beachy Head, Eng	30.28	769.1	57	13.9	94	calm			0		0			0	0	sm'h		hazy.
S. S. Hohenzollern, N. 43° 06′, W. 39° 27′ *	30.41	772.4	71.6	22.0		w.			5		9		w.	0	0	high	w.	cloudy.
S. S. Hohenstaufen, N. 40° 00′, W. 62° 30′	30.32	770.1				sse.			4-5		3		sse.	0	0	sm'h	sse.	clear.
S. S. Main, N. 43° 52′, W. 42° 54′	30.28	769.1	62.6	17.0		nw.			5		2		nw.	0	0	mod.	wnw.	clear.
S. S. Neckar, N. 42° 30′ W. 43° 0 20	30.46	773.7	67.0	19.4	100	wsw.			6		6		w.	0	0	mod.	w.	fair.
S. S. Ohio, N. 41° 16′, W. 35° 35′	30.54	775.7				wnw.			3		0			0	0	sm'h	nw.	clear.
S. S. Salier, N. 50° 20′, W. 14° 00′ *†	29.93	760.2	54	12.2		w.			5		8		wsw.	2 h'r	2 h'r	cross	wnw.	rainy.
S. S. Weser, N. 44° 30′, W. 39° 30′	30.36	771.1				wsw.			4		8		w.	0	0	mod.	wsw.	hazy.
S. S. Orinoco, New York, N. Y. *†	29.80	756.9	68	20.0		wsw.			4		6		wsw.	sh'rs	sl'rs			fair.
S. S. Colon, N. 32° 31′, W. 74° 07′ †	30.17	766.3	76	24.4		s.			4		10		sse.	0	0	mod.	s.	overcast.
S. S. Muriel, N. 28° 20′, W. 67° 00	30.21	767.3	76	24.4		se.			3		0			0	0	mod.	se.	clear.
S. S. City of Augusta, Savannah, Ga †	30.07	763.8				wsw.			2		10		sw.	0	0			cloudy.
S. S. Nederland, N. 49° 52′, W. 6° 10′			57	13.9		ssw.			4		10		ssw.	2 h'r	2 h'r	mod.	wsw.	cloudy.
S. S. Rhyniand, N. 43° 00′, W. 43° 30′	30.42	772.7	62	16.7	94	var.					7		nnw.	2 h'r	2 h'r	mod.	wnw.	squally
S. S. Pennland, New York, N.Y.	29.95	760.7	67	19.4	94	s.			3		8		s.	9 h'r	9 h'r			misty.
S. S. Waesland, Antwerp, Belgium	30.24	768.1	66	18.9		n.			3		3		ne.	0	0			clear.
S. S. P. Caland, N. 40° 40′, W. 62° 17′	30.42	772.7	64.8	18.2	94	se.			3		4		s.			2	s.	fair.
S. S. Leerdam, N. 47° 08′, W. 30° 00′	30.22	767.6	58.5	14.7	91	nnw.			4		10		n.			mod.	nw.	cloudy.
S. S. Rotterdam, N. 40° 25′, W. 70° 30′	30.07	763.8	59.0	15.0	95	nne.			5		9		n.	2 h'r	2 h'r	4	nnw.	cloudy.
S. S. Caracas, N. 13° 42′, W. 67° 40′ †	30.02	762.5	81.5	27.5	89	e.			5				ese.	2½ hr	2½ hr	sm'h		showery.
S. S. Claudius, N. 48° 50′, W. 18° 00′ †	30.10	764.5	62.0	16.7	79	wsw.			4		6		w.	light	light	long	wsw.	fair.
S. S. Valencia, N. 19° 20′, W. 68° 20′ †	30.22	767.6	82	27.8	85	ene.			6		2		ene.	0	0	h'vy	e.	clear.
S. S. State of Florida, N. 48° 16′, W. 32° 40′			57	13.9		ene.			4		10		e.	0	0	mod.	w.	hazy.
S. S. State of Nevada, N. 50° 02′, W. 31° 57′ †	30.25	768.3	51	10.6		sw.			5		10		sw.	6 h'r	6 h'r	mod.	sw.	overcast.
S. S. Romano, Hull, Eng.			64	17.8		ssw.			2									clear.
S. S. Oregon, N. 49° 46′, W. 42° 04′	29.93	760.2	44	6.7		wsw.			4		8		wsw.			mod.	w.	cloudy.
S. S. Olbers, N. 33° 12′, W. 15° 55′ †	30.21	767.3	69	20.6		ene.			5		9		nne.	0	0	mod.	nne.	gloomy.
S. S. Daniel Steinmann, Antwerp Belguim †	30.21	767.3	71	21.7		ene,			3		0			0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S S. Norman, Philadelphia, Pa						wnw.			1		0			0	0			clear.
S. S. Saxon, N. 41° 52′, W. 69° 55′†	30.05	763.3				se.			4		10			0	0		se.	dense fog.
S. S. Germanic, N. 47° 01′ W. 35° 18′			59	15.0		ssw.			3		10			6 h'r	6 h'r	light	nw.	foggy.
S. S. Iowa, N. 49° 19′ W. 28° 14′†	30.20	767.1	50	10.0		wnw.			6		9		wnw.	16 h'r	16 h'r	r'gh	wnw.	cloudy.
S. S. Antonio Lopez, N. 43° 26′, W. 80 49′	30.22	767.6	63	17.2	75	nne.			4		1			0	0	mod.	nne.	clear.
Schr. Abbie H. Gheen, Jacksonville, Fla†	30.01	762.2	76	24.4		s.			1					2 h'r	2 h'r			fair.
H. S. M. S. Eugiene, N. 57° 58′, E. 10° 11′	30.14	765.6	55.0	12.8	88	w.			7		2							d. clouds.
S. S. Jerome, N. 3° 45′, W. 48° 22′			81	27.2		e.			3		3		e.	0	0	sli't	ne.	clear.
Bg. Alcira, N. 14° 56′ W. 71° 12′	30.00	762.0	83	28.3		ne.			6		1		ene.	0	0	cross	var.	hazy
Bk. Adelaide, N. 2° 07′, W. 27° 46′*†	30.06	763.5	82	27.8		w.			4		2		wsw.	3 h'r	3 h'r	mod.	s.	fair.
Schr. Annie R. Lewis, Maunabo, Porto Rico, W. I†	30.15	765.8	84	28.9		ene.			2		8		e.	3 h'r	3 h'r	mod.	ese.	cloudy.
Schr. Authur Burton, St. Simon's Island, Ga*†	30.00	762.0				sw.			1					12 h'r	12 h'r			stormy.
Bk. Aureola, N. 33° 58′, W. 58° 24′†	30.40	772.1	82	27.8		e.			3		0			0	0			clear.
Bk. Achille F, N. 1° 30′, W. 24° —†	30.02	762.5	80	26.7	86	calm			0		7		sw.	0	0	long	s.	fair.
Bk. Arda, Woody Point, N, B*†	30.15	765.8				sse.			3		3		ssw.	2 h'r	2 h'r	sm'h		clear.
Bk. Abla, N. 51° 44′, W. 48° 13′*†	29.92	760.0	39.6	4.2		w.			5									
Bgt. Achsah, N. 30° 25 W. 68° 52′†	30.24	768.1	77	25.0		e.			4		1		e.	0	0	mod.	se.	clear.
S. S. Burswell, N. 40° 08′, W. 9° 44′ *†	30.20	767.1	69	20.6		n.			5		3		n.	0	0	str'g	n.	clear.
Bg. Belle of the Bay, N. 29° 00′, W. 93° 10′†	30.10	764.5				n.			5		5		n.	0	0	rg'h	n.	fair.
Bk. Champion, N. 38° 40′, W. 74° 55′			81	27.2	51	sw.			4		10		sw.	8 h'r	8 h'r	short	ssw.	cloudy.
Schr. C. R. Flint, N. 29° 36′, W. 71° 10′†	30.28	769.1	74	23.3		sse.			6		2		s.	0	0	short	sse.	fair.
Bk. Childwall, N. 38° 08′. W. 34° 52′			68	20.0		nne.			1		1		nne.	0	0	sm'h		fine.
Schr. Clotilde, N. 23° 29′, W. 93° 04′*†	29.92	760.0	83	28.3		ne.			3		10		ne.	0	0	sm'h		cloudy.
S. Criterion, N. 56° 11′, W. 21° 00′ *†	29.75	755.6				n.			6		8		n.	sh'rs	sh'rs	light	sw.	overcast.
S. David Stewart, N. 25° 06′, W. 39° 59′†	30.39	771.9				e.			3		3		ese.	4 h'r	4 h'r	mod.	se.	clear.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I*†	30.00	762.0	81	27.2	87	se.			1		3		se.	2 h'r	2 h'r			fine.
Bkt. David A. Preston, Navassa, W. I			82	27.8		ese.			4		5		ese.	0	0	long	se.	
Schr. Edith R. Seward, Vivorilla Cays Mosquito coast†	30.10	764.5	89	31.7		e.			2		3		e.	10 minutes		sm'h	e.	clear.
S. E. J. Spicer, N. 50° 03′, W. 5° 50′	30.13	765.3	55	12.8	100	sw.			5		7		sw.	4 h'r	4 h'r	mod.	w.	fair.
Bk. E. D. Bigelow, N. 50° 03′, W. 15° 20′*†	29.85	758.2	63	17.2		wsw.			5		6		wsw.	3 h'r	3 h'r	long	wsw.	showery.
U. S. Fish Com. S. S. Fish Hawk, Washington, D. C†	30.02	762.5	70	21.1	90	ssw.			3		9		sw.	0	0			cloudy.
H. P. M. S. Rio Lima, Porto Praya, Cape Verd Ids.			75.2	24.0	86	ne.			3		2					3		d. clouds.
Schr. F. E. McDonald, Near Sandy Hook, N. J†	29.85	758.2				ssw.			0					0	0			stormy.
Bk. George Davis, N. 52° 53′, W. 17° 48′						w.			4				wnw.	0	0		wnw.	cloudy.
Bk. Galeon, N. 20° 49′, W. 90° 33′ †	29.98	761.5	77	25.0		ese.			2		0			0	0	sm'h	ese.	blue sky.
S. Hedwig, N. 36° 49′, W. 10° 30′	30.17	766.4	63.0	17.2	94	n.			6		4		n.	0	0	2	n.	
Bk. Hattie G. McFarland, Port Royal, S. C*†	29.95	760.7	72	22.2		wsw.			4		5		s.	10 h'r	10 h'r			clearing.
Bk. John H. Pearson, Rufisque, Senegambia						n.			1				nne.	0	0			clear.
Schr. Isabel Alberto, New York N. Y†	29.90	759.4				s.			3		10		sw.	h'vy	h'vy			cloudy.
Bk. Cato, N. 67° 17′, E. 14° 24′*†	30.15	765.8				sse.			1		8			rain	rain			raining.
Bk. Johanne, N. 36° 10′, W. 4° 50′*†	30.05	763.3	73	22.8		ene.			2		2		e.	0	0	sm'h		fine.
Schr. John L. Thomas, N. 26° 56′, W. 70° 11′*†	30.30	769.6				ese.			5		2		sse.	0	0	mod.	ese.	clear.
Bg. John Wesley, N. 35° 08′, W. 59° 01′ *†	30.39	771.9				sse.			1		2			0	0	mod.	wnw	clear.
Schr. Jennie N. Huddell, N. 35° 30′, W. 75° 15′†	30.08	764.0	73	22.8	95	sw.			1		10		wsw.	2 h'r	2 h'r	h'vy	ssw.	stormy.
Bkt. Josephine, N. 40° 16′, W. 73° 52′ †	29.88	758.9	64	17.8	73	s.			6		fg.			6 h'r	6 h'r	mod	s.	dense fog.
Light-house Tender Laurel, Pensacola Bay, Fla†	30.07	763.8	70	21.1		n.			1		10		n.	0	0			cloudy.
Bg. Lilian, N. 16° 27′, W. 62° 30′ †	29.99	761.7	81	27.2		ese.			4		3		e.	1½ h'r	1½ h'r			fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	29.96	761.0	78	25.6		s.			1		1			0	0			clear.
Bk. Milo, N. 47° 09′, W. 23° 04′†	30.15	765.8				nnw.			8–9				nw.			long	nw.	hail-squalls
S. S. Madrid, Point Porman, Spain†	30.18	766.6	71	21.7	80	sse.			1		0			0	0	sm'h		clear.
Schr. Minnie A. Bonsall, Hoboken, N. J†	29.87	758.7	72	22.2		s.			1		10			1 h'r	1 h'r			cloudy.
Bkt. Kryolith, Arsuk Foird, Greenland*†	30.00	762.0				s.			6		5		s.	0	0			fair.
Bk. Matilda C. Smith, N. 44° 21′, W. 30° 00′ †	30.38	771.6				wsw.			4		4		wsw.	0	0	r'gh	nw.	threatening
Bgt. Myrtle, N. 17° 24′ W. 58° 40′*†	30.15	768.8				ese.			5		1		ese.	0	0			
Bk. Mathais, N. 47° 14′, W. 13° 37′ *†	30.26	768.6	59	15.0		sw.			3–4		9		wsw.	½ hr	½ h'r	long	w.	threatening.
Schr. Maggie Abbott, N. 35° 52′, W. 69° 50′†	30.20	767.1				ssw.			7		6		sw.	0	0	cross	var.	cloudy.
S. S. Mendoza, N. 40° 00′, W. 73° 45′						s.			3				s.	0	0	sm'h	s.	foggy.
Schr. Maud Briggs, Barbadoes, W. I*†	30.08	764.0				ene.			3		5			0	0			fair.
Bk. National Eagle, N. 38° 53′, W. 63° 20′						ssw.			3		1		ssw.	0	0			clear.
Bk. Ottawa, N. 48° 25′, W. 16° 40′*	29.96	761.0	59	15.0		wsw.			4		6		w.	1 h'r	1 h'r	mod.	nw.	fair.
S. Paramita, N. 3° 38′, W 31° 34′†	29.93	760.2	81	27.2		var.			1		5		nw.	2 h'r	2 h'r	small	n.	clear.
S. S. Raleigh, Baracao, Cuba, W. I†	30.12	765.0	80	26.7		n.			2		4							clear.
Bg. Rising Sun, N. 30° 20′, W. 60° 25′*†	30.30	769.6	75	23.9		e.			6		1		e.	0	0	mod.	e.	
Bk. Rosalie, St. John, Antigua*†	30.34	770.6				e.			3				ese.	0	0			cloudy.
Bk. Rosino, N. 40° 05′, W. 46° 50′			70	21.1		sw.			5		5		sw.	6 h'r	6 h'r		sw.	fair.
Bk. Scud, N. 23° 07′, W. 54° 20′*†	30.20	767.1	80	26.7		ese.			0		5		ese.	1 h'r	1 h'r	short	ese.	squally.
Bk. Southern Belle, N. 30° 12′, W. 24° 40 †	30.23	767.8	79	26.1		ene.			2–3		5		e	sh'rs	sh'rs	mod.	n.	fair.
S. St. Francis, N. 50° 36′, W. 11° 29′			56	13.3	75	sw.			5		9		sw.	6 h'r	6 h'r	mod	w.	cloudy.
Bgt. Sunlight, N. 30° 34′, W. 68° 58′*†	30.47	773.9				se.			5		3		sse.	0	0	mod.	sse.	clear.
Bg. Tenerlife, Sandy Hook, N. J*.	29.71	754.6				sse.			0		10					sm'h		
Bk. Usko, N. 49° 18′, W. 8° 37′*	30.10	764.5	56	13.3		sse.			4		10		s.	1 h'r	1 h'r	long	w.	cloudy.
Bkt. Wandering Jew, Old Bahama Bank, W. I†	30.10	764.5	79	26.1		sse.			5		4		se.	0	0	sm'h		fair.
S. Wm. Wilcox, Philadelphia, Pa*†	30.20	767.1				s.			5		10		sw.	0	0			threatening
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.28	769.1	54	12.2	97	nnw.			1		2		n.					d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.08	764.0	62	16.7	94	wnw.			3		7							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata	30.12	765.0	48.7	9.3	94	calm			0		10							foggy.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.12	765.0	54	12.2	93	n.	4.	1.8			10		n.	0	0	sm'h		cloudy.
U. S. S Galena, Montevideo, Uruguay*	30.11	764.8	54	12.2	93	nnw.			2		10					sm'h		cloudy.
May Hulse, S. 31° 47′, W. 29° 03′	30.28	769.1	60	15.6	71	nw.			4		3							d. clouds
S. S. Hevelius, S. 13° —′, W. 38° 30′†	30.22	767.6	77	25.0		ssw.			6		6		ssw.	6 h'r	6 h'r			cloudy.
Bk. Alpheus Marshall, S. 27° 47′, E. 5° 30′*†	29.87	758.7				w.			1		9		w.	0	0	long	sw.	foggy.
S. Dynomene, S. 33° 30′, E. 15° 25′	29.88	758.9	64	17.8	94	nnw.			3		8			0	0	sli't	sw.	misty.
S. Mt Washington, S. 17° 07′, W. 37° 37′ *†	30.26	768.6	80	26.7	70	sse.			6		10	e.	sse.			h'vy	sse.	cloudy.
S. Minnie N. Gerow, S. 39° 50′ E. 10° 18′			58	14.4		wsw.			4		10		w.	0	0	sm'h	w.	overcast.
S. Wm. McGilvery, S. 13° 56′, W. 36° 48′*†	30.15	765.8	77	25.0	95	se.			3		0?					h'vy	s.	rainy.†
Bk. Ceylon, S. 35° 19′ E. 18° 18′*†	29.98	761.5	70	21.1	80	wnw.			5		0		wnw.	0	0	r'gh	nw.	fair.
S. S. Hermod, S. 2° 40′, W. 37° 50′†	30.02	762.5	86.0	30.0		s.			3		5		se.	2 h'r	2 h'r	sm'h	s.	fair.
H. P. M. S. Duque de Terceira, S. 13° 25′, E. 12° 34′	29.98	761.5	71.6	22.0	82	sw.			3		0			0	0	2	sw.	blue sky.
H.P. M. S. Rainha de Portugal, S. 0° 08′, E. 12° 09′	30.06	763.5	77.4	25.2	90	calm			0		0			0	0			blue sky.
District No. 3—North Pacific.																		
H. M. S. Champion, N. 3° 40′, E. 112° 00′	29.83	757.7	82	27.8	91	w.			1		10							overcast.
H. M. S. Sappho, N. 13° 54′, W. 90° 49′	29.91	759.7	80	26.7	96	n.			1		5	sw.				5	s.	d. clouds.
H M. S. Flying Fish, N. 37° 09′, E. 126° 11′	29.83	757.7	59	15.0	97	calm			0		10							drizzling.
H. M. S. Magpie, N. 5° 17′, E. 115° 16′	29.87	758.7	82.9	28.3	83	calm			0		5							d. clouds.
H. M. S. Swiftsure, Esquimalt, V. I	30.03	762.7	52	11.1	74	calm			0		4							d clouds.
H. M. S Zephyr, N. 34° 41′, E. 135° 12′	29.97	761.2	71	21.7	71	calm			0		3							misty.
H. P. M. S. Tamega, Macao, China	29.81	757.1	84.2	29.0	88	sw.			5		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.02	762.5	67.5	19.7	84	calm			0		8			0	0			foggy.
U. S. S. Adams, Wm. Henry Harbor, Alaska†	29.96	761.0	44	6.7	92	calm			0		10					sm'h		cloudy.
U. S. S. Hartford, Honolulu Sandwich Ids*	30.02	762.5	74	23.3	81	se.			1		2			0	0	sm'h	ne.	clear.
U. S. S. Monocacy, Roze Id, Corea	29.86	758.4	63	18.3	89	calm			0		10		calm					rainy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
U. S. S. Palos, Hong Kong, China	29.67	753.6	84	28.9	79	s.			1		2		calm					clear.
U. S. S. Richmond, Hong-Kong, China*	29.66	753.4	85	29.4	83	ssw.			2		0			0	0			clear.
S. S. Coptic, N. 26° 36′, E. 123° 35′	29.71	754.6	78.5	25.8	91	s.			2		10		se.	1 h'r	1 h'r	sli't	s.	raining.
S. S. City of Chester, off Cape Mendocino, Cal†	29.95	760.7	49	9.4	78	nw.			6		10			0	0	h'vy	nw.	overcast.
S. S. Oregon, San Francisco, Cal †	29.95	760.7	56	13.3	94	calm			0		5		nw.					misty.
S. S. Willametta, Seattle, Wash. Ter *†	30.01	762.2	55	12.8	93	calm			0		2		ese.	0	0			clear.
S. S. Ancon, N. 37° 20′. W. 122° 33′ †	29.92	760.0	55	12.8	93	sw.			2		8		sw.			mod.	wsw.	cloudy.
S. S. G. W. Elder, Port Townsend, Wash Ter †	30.01	762.2	46	7.8	84	e.			1		0							clear.
S. S. Queen of the Pacific, N. 42° 05′, W. 123° 38′†	29.92	760.0				nw.			7		5			0	0	h'vy	nw.	fair.
S. S. State of California, N. 41° 20′, W. 124° 30′†	29.98	761.5	50	10.0	72	nnw.			5		0					short	nw.	clear.
S. S. City of Pekin, N. 38° 08′, W. 123° 58′			53	11.7	93	wnw.			4		10		nw.	0	0	small	wnw.	misty.
S. S. City of Rio de Janeiro, N. 35° 53′, E. 162° 16′†	30.03	762.7	66	18.9	89	ssw.			3		10		w.	0	0	light	s.	overcast.
S. S. Granada, Panama Bay, Panama †	29.90	759.4	79	26.1	86	nw.			1		5			1 h'r	1 h'r			fair.
S. S. San Blas, N. 9° 35′, W. 85° 24′			82	27.8		var.			1		10		s.	4 h'r	4 h'r	small	ssw.	overcast.
S. S. San José, N. 36° 58′, W. 122° 30′ †	29.99	761.7	56	13.3		calm			0		ns		wnw.			long	wnw.	foggy.
S. S. Benledi, Kobe, Japan*	29.91	759.7	70	21.1	80	se.			1–2		6			0	0	sm'h		hazy.
Bk. Bore, Macassar, Celebes Id*†	30.23	767.8	85	29.4		ene.			1									
S. David Crocket, N. 9° 40′, W. 117° 22′ *	29.82	757.4	79	26.1	82	nne.			2		1		nne	0	0	sm'h	nne.	blue sky.
S. Grecian, N. 35° 25′, E. 139° 42′	30.00	762.0	72	22.2	85	ssw.			6		4		w.	0	0			hazy.
S. S. Radnorshire, N. 28° 08′, E. 125° 07′ *†	29.70	754.4				se.			6		10		sse.	3 h'r	3 h'r	mod.	ese.	overcast.
S. Titan, N. 43° 16′, W. 129° 24′*†	30.26	768.6	52	11.1	63	nnw.			4		10		nnw.	0	0	mod.	nnw.	cloudy.
Bk. Xenia, Woosung river, China			75	23.9		sw.			3				nw.					heavy rain.
S. S. Zealandia, N. 5° 24′, W 163° 11′			80	26.7	96	n.			2		0					sm'h		clear
U. S. S. Ranger, N. 15° 42′, W. 94° 34′	29.92	760.0	84	28.9	79	ene.			1		10		ne.	0	0	sm'h		cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N S. W.			59	15.0	59	calm			0		7							d. clouds.
H. M. S. Espiegle, S. 5° 25′, E. 177° 40′	29.89	759 2	83	28.3	83	ne.			2		3					1	ne.	d. clouds.
H. M. S. Kingfisher, S. 27° 01′, W. 131° 02′	30.15	765.8	72	22.2		ne.			3		4					3	ene.	d. clouds.
H. M. S. Liffey S. 29° 56′. W. 71° 20′	29.89	759.2	57	13.9		ese.			2							2	ese.	d clouds.
H. M. S. Nelson, Feejee Ids, Oceania	29.67	753.6	79	26.1	86	calm			0		1	w.						blue sky.
U. S. S. Iroquois, Valparaiso, Chili	29.97	761.2	52	11.1	100	se.			1		8					sm'h		cloudy.
U. S. S. Lackawanna, S. 26° 12′, W. 100° 56′ *	30.11	764.8	68	20.0	69	sse.			6		10		se.			mod.	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	62	16.7	83	se.			2		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.94	760.5	63	17.2	78	se.	4	1.8			10			0	0			misty.
U. S. S. Wachusetts, S. 21° 22′, W. 163° 15′	29.95	760.7	73	22.8	81	se.			1		2		se.			long	se.	clear.
S. S. Australia, S. 33° 58′, E. 153° 40′	29.97	761.2	64	17.8	89	w			5		2		w.	0	0	long	w.	clear.
S. S. City of Sydney, Sydney, N. S. W*†	29.92	760.0	57	13.9	87	n.			1	8 cs	0	nw.		0	0			cloudy.
S. Storm King, S. 56° 57′, W. 81° 24′ *†	29.18	741.2				nw.			5		9		nw.	2 h'r	2 h'r	r'gh	nw.	cloudy.
H. M. S. Lark. S. 7° 48′, E. 155° 26′	29.90	759.4	81.3	27.4	87	e.			2		2					2	e.	d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Eclipse, N. 12° 47′ E. 44° 58′	29.74	755.4	89	31.7		s.			1		6	sw.						d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon	29.76	755.9	87	30.6	76	sw.			2		5							d. clouds
H. M. S. London, Zanzibar, Zanzibar	30.03	762.7	79	26.1	82	sse.			3		1	sse.				2	ssw.	blue sky.
H. M. S. Tourmaline, N. 9° 50′, E. 69° 40′	29.72	754.9	80	26.7	82	sw.			4		2	sw.				2	wsw.	raining.
H. M. S. Woodlark, Bussorah, Turkey in Asia	29.78	756.4	92	33.3	57	nw.			2		0							misty.
U. S. S. Enterprise, Durban, Natal *	30.04	763.0	69	20.6	70	e.			2		2		e.			long	se.	clear.
U. S. S. Juniata, Bombay, India	29.72	754.9	88	31.1	92	w.			2		5		calm	0	0			fair
S. S. Salerno, Bombay, India †	29.88	758.9	88	31.1		nnw.			2		5		nw.	1 h'r	1 h'r	mod.		
S. Annie M. Law, S. 30° 00′, E. 34° 12′ *†	30.24	768.1	70	21.1		ene.			1		0			0	0	hv'y	sw.	clear.
S. S. Malabar, N. 7° 20′, E. 97° 58′						wsw.			6		10		sw.	7 h'r	7 h'r	mod.	sw.	squally.
Bk. Pilgrim, Samarang, Java, Oceania*†	29.90	759.4				calm			2		2		e.	0	0			clear.
S. S. Foscolia, N. 24° 02′ E. 36° 48′ †	29.80	756.9				nnw.			4		0			0	0	high	nnw.	hazy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

MAY, 1883.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for May, 1883. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.02	762.4	65.5	18.6	79	6	1	1	1	9	4	9	.....	.....	.....	.....	1	1.25	31.8
Algiers	N. 36 47	E. 3 05	0.20 p.m.	72	22	.....	.....	29.98	761.6	65.5	18.6	71	4	10	4	2	2	.....	4	5	.....	.....	.....	7	1.26	32.1
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	29.98	761.4	64.8	18.2	71	5	10	4	2	2	.....	4	4	.....	.....	.....	6	1.16	29.5
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	29.98	761.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.04	763.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.00	762.1	66.7	19.3	46	8	8	4	1	2	4	2	2	.....	.....	.....	2	1.51	38.4
Geriville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	64.8	18.2	39.2	7	2	7	.....	11	.....	1	3	.....	.....	.....	2	8.98	228.0
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2549	777	.....	.....	29.99	761.8	71.1	21.7	39.5	6	3	.....	1	6	4	6	5	.....	.....	.....	1	0.99	25.2
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	29.98	761.5	76.3	24.6	42	2	10	2	.....	1	.....	.....	1	15	.....	.....	2	inap.	inap.
AUSTRALIAN.																										
Adelaide	S. 34 57	E. 138 30	9.22 p.m.	140	42	.....	.....	30.04	763.0	54.2	12.3	74.8	4	1	5	2	6	2	2	5	4	.....	.....	6	6.42	163.1
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.91	759.6	30.00	762.0	51.5	10.8	82	7	1	3	3	1	8	3	5	.....	.....	.....	5	1.99	50.5
AUSTRIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.35	745.4	29.88	758.9	68.2	20.0	47.4	.....	1	.....	10	5	5	3	7	.....	.....	.....	6	3.41	86.6
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.12	739.7	29.88	758.9	61.2	16.2	59.2	3	6	3	7	3	.....	3	6	.....	.....	.....	6	2.24	56.8
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	28.99	736.4	29.83	757.7	58.3	14.6	65.2	12	3	.....	.....	8	.....	.....	.....	8	.....	.....	7	0.74	18.9
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.66	728.0	29.88	759.0	64.2	17.9	61.0	1	6	5	9	.....	3	5	1	1	.....	.....	6	2.35	59.8
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.43	722.2	29.82	757.4	66.0	18.9	60.0	1	12	4	.....	7	4	1	2	.....	.....	.....	8	5.52	140.1
Kremsmünster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.57	725.7	29.86	758.9	62.2	16.8	62.9	1	6	5	3	1	.....	2	12	1	.....	.....	6	3.29	83.6
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	28.87	733.4	29.84	757.9	61.9	16.6	55.6	2	5	4	4	2	2	2	10	.....	.....	.....	6	1.14	29.0
Neu Schmecks	N. 49 10	E. 20 14	1.29 p.m.	3297	1005	26.52	673.6	29.82	757.5	56.5	13.6	58.5	1	3	1	5	.....	2	3	1	15	.....	.....	6	3.29	83.5
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	29.78	756.5	29.87	758.8	66.6	19.2	63.1	.....	1	7	5	4	8	4	2	.....	.....	.....	4	1.95	49.5
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.36	745.8	29.82	757.3	67.6	19.8	52	9	2	4	9	3	1	1	2	.....	.....	.....	6	1.48	37.5
Szegedin	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.58*b*	751.2*b*	29.85*b*	758.1*b*	66.9	19.4	57.3*a*	5*b*	6	5	2	5	2	.....	2	2	.....	.....	7*b*	2.24	56.8
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	29.82	757.4	29.92	759.9	66.9	19.4	58.0	1	5	6	11	1	.....	1	3	3	.....	.....	5	2.84	72.2
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.21	741.8	29.90	759.5	64.6	18.1	52.2	3	4	10	.....	2	4	1	3	4	.....	.....	5	2.39	60.8
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.80	756.9	29.90	759.4	50.6	10.3	63.5	6	4	3	2	7	6	2	1	.....	.....	.....	7	0.93	23.6
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	29.72	754.9	29.95	760.7	53.9	12.2	66.3	9	3	4	6	7	.....	.....	2	.....	.....	.....	6	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.95	760.7	54.7	12.6	66.3	3	5	10	2	2	1	2	6	.....	.....	.....	6	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.40	746.7	29.94	760.5	54.7	12.6	66.5	1	4	3	8	5	2	1	7	.....	.....	.....	7	.....	.....
Bradford *d*	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.53	750.0	29.93	760.2	54.9	12.7	62.9	.....	6	4	7	2	.....	.....	8	.....	.....	.....	7	0.58	14.7
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	29.98	761.5	30.01	762.2	83.2	28.4	73.5	.....	.....	.....	.....	.....	6	.....	25	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	29.87	758.7	29.97	761.2	60.5	15.8	62.8	5	5	3	6	1	2	1	8	.....	.....	.....	6	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	120	37	29.83	757.7	29.96	761.0	58.2	14.6	68.2	1	1	.....	9	.....	.....	4	7	9	.....	.....	6	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.76	755.9	29.99	761.7	54.7	12.6	71.0	5	3	2	4	3	8	3	3	.....	.....	.....	6	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2205	672	27.65	702.3	29.87	758.7	74.7	23.7	38.5	1	1	1	.....	4	1	18	5	.....	.....	.....	2	.....	.....
Freetown	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.65	753.1	29.88	758.9	83.6	28.7	71.9	7	1	5	4	8	3	2	1	.....	.....	.....	4	.....	.....
Galway	N. 53 15	W. 9 03	11.32 a.m.	32	10	29.88	758.9	29.91	759.7	54.0	12.2	68.5	1	.....	13	7	1	.....	4	5	.....	.....	.....	5	2.11	53.6
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	29.96	761.0	30.01	762.2	67.3	19.6	91.6	.....	7	9	1	.....	2	11	1	.....	.....	.....	4	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.71	754.6	29.92	760.0	52.9	11.6	57.4	5	1	10	6	4	1	1	3	.....	.....	.....	8	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.78	756.4	29.96	761.0	59.8	15.4	63.7	6	2	.....	8	4	2	2	6	1	.....	.....	6	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.69	754.1	29.99	761.7	54.7	12.6	78.5	8	5	2	2	4	3	.....	7	.....	.....	.....	6	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	29.93	760.2	29.97	761.2	57.7	14.3	62.8	9	5	1	10	1	.....	2	3	.....	.....	.....	6	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.70	754.4	29.95	760.7	56.8	13.8	66.7	3	5	3	11	.....	.....	.....	9	.....	.....	.....	7	.....	.....
Malta	N. 36.00	E. 14 30	1.06 p.m.	70	21	29.89	759.2	29.97	761.2	67.4	19.7	86.7	2	10	.....	4	1	2	2	10	.....	.....	.....	1	.....	.....
Nassau	N. 25 04	W. 77 22	0.58 a.m.	44	13	30.01	762.2	30.06	763.5	78.9	26.1	68.7	1	5	.....	7	1	5	3	9	.....	.....	.....	6	.....	.....
Oscott	N. 52 28	W. 1 55	0.00 m.	483	147	29.44	747.8	29.96	761.0	55.4	13.0	70.1	5	5	3	3	9	.....	1	5	.....	.....	.....	7	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.74	755.4	29.97	761.2	56.7	13.7	67.6	7	4	2	7	5	.....	.....	4	2	.....	.....	7	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	29.90	759.4	29.97	761.2	57.5	14.2	73.8	1	5	2	4	5	2	3	6	3	.....	.....	8	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	29.75	755.6	29.85	758.2	48.1	8.9	79.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Scutari Cemet'y	N. 41 00	E. 29 03	2.04 p.m.	60	18	29.79	756.7	29.86	758.4	69.2	20.7	66.4	4	.....	2	11	6	2	.....	5	1	.....	.....	5	.....	.....
Sheffield	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.08	753.9	29.95	760.7	59.0	15.0	68.0	2	5	.....	5	8	.....	.....	10	1	.....	.....	7	1.13	28.7
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.91	759.7	29.94	760.5	54.4	12.4	68.9	3	3	6	10	2	.....	2	5	.....	.....	.....	5	1.20	30.5
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	29.96	761.0	54.3	12.4	64.6*a*	1*a*	1	10	5	4	1	.....	8	.....	.....	.....	7	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	29.96	761.0	30.04	763.0	59.8	15.4	69.8	5	5	4	4	5	4	2	2	.....	.....	.....	7	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m	23	7	29.95	760.7	29.98	761.5	53.5	11.9	69.2	5	10	1	4	4	3	1	3	.....	.....	.....	7	.....	.....
Sub-series.																										
Gozo	N. 36 01	E. 14 16	1.05 p.m.	364	111	29.60	751.8	29.99	761.7	69.2	20.7	54.4	.....	7	7	6	1	4	5	.....	1	.....	.....	3	0	0
CANADIAN.																										
Bathurst	N. 47 39	W. 65 43	7.45 a.m.	35	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	29.94	760.5	29.99	761.7	45.4	7.4	74.2	4	1	4	3	7	5	1	2	4	6198	9975	7	4.05	102.9
Chatham*	N. 47 03	W. 65 29	7.45 a.m.	56	17	29.94	760.5	30.00	762.0	45.2	7.3	73.3	4	4	6	9	2	2	1	3	.....	3518	5662	6	3.73	94.7
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	29.72	754.9	29.91	759.7	47.0	8.3	75.7	2	5	9	6	.....	1	6	2	.....	.....	.....	7	5.90	149.9
Dalhousie	N. 48 04	W. 66 21	7.32 a.m.	45	14	29.94	760.5	29.99	761.7	41.8	5.4	.....	.....	.....	16	.....	.....	.....	9	.....	6	.....	.....	.....	3.00	76.2
Father Point*	N. 48 31	W. 68 28	7.34 a.m.	20	6	29.94	760.5	29.96	761.0	39.9	4.4	86.1	2	10	3	1	2	1	.....	10	2	.....	.....	5	0.81	20.6
Fort Garry*	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.17	740.9	29.99	761.7	37.7	3.2	84.3	10	1	2	2	3	4	2	7	.....	9308	14980	5	1.32	33.5
Fredericton	N. 45 57	W. 66 39	7.41 a.m.	59	18	29.95	760.7	30.01	762.2	46.5	8.1	72.1	.....	9	4	1	2	1	8	5	1	.....	.....	6	2.73	69.3
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	28.85	732.8	29.93	760.2	44.7	7.1	98.8	5	4	3	4	4	1	7	1	2	.....	.....	6	4.09	103.9
Halifax*	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.90	759.4	30.03	762.7	46.9	8.3	79.9*a*	7	3	7	2	4	6	.....	1	1	.....	.....	5	7.18	182.4
Hamilton	N. 43 16	W. 79 53	6.49 a.m.	338	103	29.51	749.5	29.90	759.4	46.5	8.1	85.9	.....	1	.....	17	.....	1	4	8	.....	.....	.....	6	3.15	80.0
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.61	752.1	29.94	760.5	46.1	7.8	73.7	5	2	2	5	8	.....	2	7	.....	7084	11400	7	4.92	125.0
Little Glace Bay	N. 46 12	W. 59 58	8.08 a.m.	34	10	29.93*a*	760.2*a*	29.97*a*	761.2*a*	59.3*a*	15.2*a*	77.9*a*	.....	1	3	13	2	4	2	3	3	.....	.....	7	9.05	229.9
London	N. 43 00	W. 81 15	6.43 a.m.	816	248	29.06	738.1	29.96	761.0	45.7	7.6	79.7	3	.....	3	3	7	6	4	1	4	.....	.....	7	5.79	147.1
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.74	755.4	29.94	760.5	47.3	8.5	71.0	6	3	10	1	6	1	2	2	.....	.....	.....	7	6.46	164.1
Ottawa	N. 45 26	W. 75 45	7.05 a.m.	223	68	29.68	753.9	29.93	760.2	45.7	7.6	77.8	6	5	4	6	2	3	2	3	.....	.....	.....	6	5.10	129.5
Parry Sound*	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.24	742.7	29.94	760.5	42.4	5.8	78.4	2	.....	7	2	9	4	4	3	.....	8078	13000	6	3.37	85.6
Peterboro	N. 44 17	W. 78 20	6.54 a.m.	675	206	29.20	741.7	29.94	760.5	48.6	9.2	71.6*a*	2	4	6	5	4	.....	4	3	3	.....	.....	6	1.72	45.7
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.29	741.0	29.96	761.0	45.7	7.6	85.3	.....	4	5	5	3	.....	1	9	4	6900	11104	7	5.36	136.1
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.32	744.7	29.96	761.0	45.4	7.4	83.0	2	3	9	3	.....	.....	10	4	.....	.....	.....	6	5.64	143.3
Quebec*	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.64	752.8	29.96	761.0	43.0	6.1	80.6	11	.....	6	.....	3	.....	1	5	5	.....	.....	6	3.56	90.4
Rockliffe*	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.46	748.3	29.92	760.0	42.4	5.8	75.6	3	12	1	.....	.....	2	4	.....	9	.....	.....	6	2.96	75.2
Saint Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	29.92	760.0	29.98	761.5	44.5	6.9	80.9	3	4	.....	3	3	8	.....	6	4	.....	.....	4	3.92	99.6
Saint John, N. B.	N. 45 17	W. 66 03	7.44 a.m.	150	46	29.83	757.7	29.99	761.7	48.7	9.3	83.2	3	2	2	12	.....	4	2	6	.....	.....	.....	5	3.81	96.8
Saint Johns, N.F.	N. 47 34	W. 52 54	8.30 a.m.	230?	70?	29.86	758.4	30.11	764.8	44.9	7.2	84.0*b*	.....	2	7	6	8	3	.....	5	.....	.....	.....	5	4.83	122.7
Saint Pierre	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	30.01	762.2	42.5	5.8	.....	3	7	3	10	1	2	2	2	1	.....	.....	.....	8.98	228.1
Saugeen	N. 44 39	W. 81 21	6.42 a.m.	656	200	29.23	742.4	29.94	760.5	43.4	6.3	79.5	5	2	3	5	5	3	3	4	.....	8645	13912	7	3.29	83.6
Stratford	N. 43 23	W. 81 00	6.44 a.m.	1182	360	29.07	753.6	29.95	760.7	45.4	7.4	78.3	1	3	4	7	3	3	3	4	3	.....	.....	6	4.55	115.6
Sydney*	N. 46 08	W. 60 10	8.07 a.m.	37	11	29.97	761.2	30.02	762.5	45.5	7.5	80.9	2	3	6	10	3	.....	.....	3	4	6914	11127	8	9.52	241.8
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.59	751.6	29.97	761.2	45.7	7.6	76.9	6	4	4	5	.....	.....	5	1	6	7741	12458	7	4.31	109.5
Windsor	N. 44 59	W. 63 58	7.53 a.m.	87	26	29.89	759.2	29.99	761.7	47.8	8.8	79.3	6	6	1	3	3	5	5	1	1	.....	.....	6	.....	.....
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	28.90	734.6	29.96	761.0	47.6	8.7	78.0	6	.....	5	5	5	3	1	5	1	.....	.....	6	4.17	105.9
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	29.93	760.2	30.00	762.0	47.1	8.4	83.6	3	6	1	3	3	5	7	.....	3	9293	14955	5	4.34	110.2

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for May, 1883. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
CAPE COLONY.	° ′	° ′																								
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	29.99	761.7	30.02	762.5	66.6	19.2	80.1	3	1	10	8	.....	.....	7	1	1	.....	.....	4	1.34	34.0
Springbok *c*	S. 29 45	E. 17 43	1.19 p.m	?	?	27 90	708.6	.....	.....	66.3	19.1	43.5	7	3	2	.....	1	4	.....	11	.....	.....	.....	.....	1.71	43.4
CHINESE. (*Sub*).																										
Sung-shu-chwang	N. 36 07	E. 103 56	7.04 p.m.	4987	1520	25.17	639.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tchang-kia-tchouang.	N. 38 17	E. 116 14	7.53 p.m.	98	30	29.75	755.6	29.86	758.4	68.5	20.3	50	.....	2	.....	7	1	5	3	7	6	.....	.....	4	0.51	12.9
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	22	7	29.89	759.1	29.91	759.8	62.2	16.8	86	4	3	2	1	3	6	10	1	1	.....	.....	8	6.89	174.9
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.84	758.0	29.89	759.2	56.1	13.4	60	5	6	2	2	4	5	4	.....	3	.....	.....	4	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.89	759.2	29.91	759.7	55.9	13.3	67	.....	6	4	13	3	1	2	2	.....	.....	.....	4	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.85	758.1	29.89	759.2	33.4*a*	0.8*a*	85*a*	6	.....	.....	2	8	4	.....	7	4	.....	.....	7	.....	.....
Jacobshavn	N. 69 13	W. 50 55	8.44 a.m.	42	13	29.85	758.3	29.90	759.5	32.9	0 5	.....	3	1	1	.....	6	2	7	.....	11	.....	.....	5	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.84	758.0	29.89	759.1	36.7	2.6	84	1	2	1	1	2	2	3	15	4	.....	.....	5	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.76	756.0	29.79	756.6	46.4	8.0	77	5	2	6	7	4	2	1	3	1	.....	.....	7	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.80	757.0	29.89	759.3	53.6	12.0	69	2	11	3	8	2	1	3	1	.....	.....	.....	4	.....	.....
Egyptian.																										
Cairo *e*	N. 30 03	E. 31 21	2.14 p.m.	?	?	29.77	756.2	.....	.....	85.3	29.6	.....	10	9	3	.....	.....	.....	2	2	.....	.....	.....	2	0	0
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.39	746.5	30.03	762.7	66.0	18.9	72.1	.....	4	9	1	2	6	1	4	4	.....	.....	.....	3.25	82.5
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.45	748.1	30.00	762.1	59.7	15.4	72.1	.....	3	.....	12	2	4	.....	4	6	.....	.....	5	0.47	12.0
Arras *a*	N. 50 18	E. 2 46	0.19 p.m.	239	73	29.69	754.1	29.95	760.6	59.7	15.4	72.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.14?	3.5?
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	29.87	758.6	29.95	760.6	70.0	21.1	55.5	2	10	3	9	2	4	.....	1	.....	.....	.....	4	1.78	45.3
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.39	746.6	29.94	760.4	64.6	18.1	48.9	1	2	.....	2	6	5	6	9	.....	.....	.....	6	1.07	27.2
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.71	754.5	29.97	761.1	63.5	17.5	50.4	2	4	4	2	6	2	4	7	.....	.....	.....	6	1.24	31.4
Besançon	N. 47 14	E. 6 02	0.32 p.m.	846	258	29.02	737.2	29.89	759.3	65.8	18.8	62.8	5	.....	1	2	13	1	1	8	.....	.....	.....	.....	3.44	87.3
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.69	754.0	29.95	760.6	65.5	18.6	57.3	3	9	2	8	1	3	3	2	.....	.....	.....	5	3.54	90.0
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.38	746.3	29.92	760.0	65.8	18.8	54.7	8	5	4	3	3	1	2	5	.....	.....	.....	.....	2.43	61.8
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.78	756.4	30.02	762.6	61.2	16.2	70.1	4	5	.....	10	3	.....	.....	7	2	.....	.....	6	5.81	147.5
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	29.89	759.1	29.96	761.0	59.9	15.5	71.9	4	8	3	7	3	2	.....	4	.....	.....	.....	6	1.92	48.8
Chalons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.60	751.7	29.91	759.6	66.2	19.0	66.8	4	3	7	1	8	3	2	2	1	.....	.....	4	1.11	28.3
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.42	747.3	29.92	760.0	64.2	17.9	54.1	5	3	4	1	5	4	3	6	.....	.....	.....	5	1.81	45.9
Clermont-Fd	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.59	726.2	29.91	759.7	66.2	19.0	50.9	9	.....	5	5	3	3	1	5	.....	.....	.....	5	2.28	57.8
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.11	739.4	29.95	760.7	66.2	19.0	52.0	4	4	4	4	3	2	3	5	2	.....	.....	5	2.09	53.0
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.10	739.1	29.95	760.6	62.8	17.1	50.5	.....	6	5	6	.....	2	7	5	.....	.....	.....	.....	0.91	23.2
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.42	696.5	29.90	759.4	63.7	17.6	50.0	.....	.....	5	1	4	.....	2	13	6	.....	.....	5	3.45	87.7
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.86	733.1	29.97	761.1	66.4	19.1	52.9	1	.....	.....	.....	1	10	12	7	.....	.....	.....	5	1.42	36.0
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.16	740.6	29.91	759.7	66.9	19.4	54.7	1	20	3	2	.....	1	4	.....	.....	.....	.....	.....	2.91	74.0
Gueret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.37	720.6	29.92	759.9	62.8	17.1	53.8	1	3	3	12	1	.....	1	10	.....	.....	.....	.....	2.54	64.4
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.83	757.7	30.08	764.1	61.0	16.1	65.5	8	7	5	2	3	2	1	3	.....	.....	.....	5	1.58	40.2
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.38	746.2	29.93	760.3	67.3	19.6	53.5	2	2	18	2	.....	3	2	2	.....	.....	.....	5	2.66	67.5
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.89	759.1	29.99	761.7	63.1	17.3	59.0	4	5	.....	8	9	.....	.....	5	.....	.....	.....	5	2.04	51.8
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	28.90	734.1	29.94	760.4	64.9	18.3	49.7	6	5	2	2	5	5	4	2	.....	.....	.....	3	1.60	40.5
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.65	753.1	29.95	760.8	62.4	16.9	64.8	5	2	4	5	4	1	6	4	.....	.....	.....	5	1.82	46.1
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.68	753.9	29.95	760.7	67.1	19.5	61.8	.....	3	9	10	6	2	1	.....	.....	.....	.....	4	1.24	31.4
Mont Louis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.80	630.0	29.65	753.0	53.2	11.8	53.8	3	3	6	8	1	3	5	2	.....	.....	.....	5	3.88	98.5
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.80	757.0	29.93	760.1	68.7	20.4	69.1	5	.....	.....	.....	1	8	3	14	.....	.....	.....	2	3.42	86.8
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.18	741.2	29.95	760.6	63.9	17.7	55.9	5	5	7	2	4	3	1	4	.....	.....	.....	.....	1.58	40.2
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.83	757.6	29.99	761.7	65.3	18.5	54.4	6	3	2	2	4	2	6	6	.....	.....	.....	6	1.68	42.8
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.85	758.1	29.96	760.9	68.2	20.1	50.8	6	6	1	.....	1	3	10	4	.....	.....	.....	4	0.66	16.7
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.19	538.2	.....	.....	36.1	2.3	.....	.....	2	8	8	5	1	1	.....	6	.....	.....	.....	1.43	36.4
Privas ..... [mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	28.91	734.4	29.93	760.1	66.6	19.2	57.9	9	2	.....	2	10	5	2	.....	1	.....	.....	3	3.07	78.0
Puy de Dome	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.11	637.7	.....	.....	44.6	7.0	78.7	.....	5	4	7	1	6	2	6	.....	.....	.....	5	3.00	76.3
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	29.91	759.7	29.94	760.5	67.8	19.9	57.7	1	1	4	6	2	2	.....	8	7	.....	.....	5	8.31	211.0
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.72	754.9	29.94	760.4	65.5	18.6	57.9	2	7	5	2	3	2	7	3	.....	.....	.....	4	2.89	73.5
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.98	710.6	29.95	760.7	63.5	17.5	58.6	2	4	4	3	.....	9	3	2	4	.....	.....	.....	1.92	48.8
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	29.91	759.8	29.96	761.0	63.0	17.2	57.7	5	3	7	5	1	5	1	4	.....	.....	.....	5	1.55	39.3
Saint Lo	N. 49 06	W. 1 05	0.04 p.m.	134	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.80	756.9	29.96	761.0	64.9	18.3	49.7	7	5	1	5	1	3	.....	8	1	.....	.....	6	1.46	37.0
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.28	743.8	30.01	762.2	69.1	20.6	55.7	3	8	5	2	.....	10	2	1	.....	.....	.....	4	1.73	43.9
Tours	N. 47 24	E. 0 41	0.11 p.m.	167	51	29.77	756.2	29.95	760.8	66.2	19.0	48.9	10	4	4	4	4	1	1	3	.....	.....	.....	.....	1.09	42.9
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.47	748.4	29.96	761.0	63.9	17.7	50.8	2	6	4	6	1	.....	2	10	.....	.....	.....	.....	1.50	38.0
Sub-Series.																										
St. Martin du Hinx.	N. 43 35	W. 1 16	0.03 p.m.	131	40	29.84	757.8	29.99	761.7	66.9	19.4	56.4	4	5	12	3	.....	3	3	1	.....	.....	.....	5	4.61	117.2
GERMAN.																										
Ansbach	N. 49 18	E. 10 36	0.50 p.m.	1358	414	28.51	724.1	29.93	760.1	63.5	17.5	47.7	1	5	5	2	3	3	.....	11	1	.....	.....	4	2.10	53.4
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.08	738.5	29.92	759.9	66.0	18.9	50.7	1	8	5	3	3	4	2	3	2	.....	.....	4	1.91	48.6
Berlin	N. 52 30	E. 13 19	1.02 p.m.	131	40	29.76	756.0	29.91	759.6	63.3	17.4	50.9	2	3	8	4	3	7	2	2	.....	.....	.....	6	1.82	46.1
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.42	747.2	29.95	760.6	60.4	15.8	52.6	1	7	10	1	.....	3	6	3	.....	.....	.....	6	1.34	33.9
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	413	126	29.49	749.1	29.94	760.4	66.0	18.9	50.1	1	2	2	9	1	3	.....	13	.....	.....	.....	6	1.84	46.7
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.20	741.7	29.91	759.8	64.4	18.0	50.3	2	11	4	5	5	2	2	.....	.....	.....	.....	6	1.93	49.0
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	.....	.....	29.92	760.0	66.6	19.2	46.6	1	6	3	5	4	5	1	6	.....	.....	.....	5	1.23	31.2
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1339	408	28.53	724.6	29.91	759.8	62.6	17.0	68.5	1	.....	7	16	3	.....	.....	4	.....	.....	.....	5	4.74	120.4
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.84	758.0	29.93	760.3	60.4	15.8	59.7	3	6	7	7	.....	4	3	1	.....	.....	.....	5	1.84	46.8
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	29.89	759.3	29.91	759.7	57.6	14.2	56.1	4	5	4	3	.....	2	3	4	6	.....	.....	6	0.92	23.5
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.51	749.5	29.92	760.0	64.2	17.9	46.9	.....	7	7	3	3	3	4	4	.....	.....	.....	6	1.81	45.9
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.72	755.0	29.91	759.7	64.0	17.8	53.3	1	3	10	3	1	4	4	4	1	.....	.....	5	1.80	45.8
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	29.87	758.6	29.91	759.8	52.9	11.6	70.5	3	11	9	1	3	1	1	2	.....	.....	.....	5	1.10	27.9
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28 11	714.1	29.97	761.3	62.4	16.9	52.6	2	11	1	2	.....	1	3	7	4	.....	.....	5	3.24	82.4
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	29.92	759.9	29.93	760.3	54.9	12.7	64.6	6	3	4	4	.....	2	4	8	.....	.....	.....	6	1.49	37.9
Neustadt. *b*	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.39	746.4	29.91	759.7	66.4	19.1	49.5	2	1	6	4	2	1	3	3	7	.....	.....	6	1.23	31.2
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	28.98	736.2	29.85	758.3	64.8	18.2	48.5	14	2	3	4	.....	1	4	3	.....	.....	.....	5	2.44	62.1
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	29.93	760.2	29.95	760.8	57.0	13.9	67.9	4	3	11	3	2	4	.....	4	.....	.....	.....	5	1.38	35.0
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	361	110	29.53	750.1	29.90	759.5	73.0	22.8	.....	2	.....	2	5	19	1	.....	2	.....	.....	.....	4	1.04	26.3
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.56	750.8	29.61	752.1	87.5	30.8	74	.....	3	13	13	2	.....	.....	.....	.....	.....	.....	3	0	0
Deesa	N. 24 16	E. 72 14	4.57 p.m.	466	142	29.12	739.7	29.57	751.2	102.4	39.1	22	1	.....	12	13	2	2	.....	1	.....	.....	.....	1	1.16	29.5
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.70	754.5	29.74	755.4	87.0	30.6	69	.....	11	11	9	.....	.....	.....	.....	.....	.....	.....	3	0.33	8.4
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	27.87	707.9	29.67	753.6	92.4	33.6	34	.....	13	6	11	.....	.....	.....	1	.....	.....	.....	4	1.90	48.3
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.45	747.9	29.72	754.8	95.3	35.2	40	.....	7	6	5	7	2	1	.....	3	.....	.....	6	3.95	100.3
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.21	691.1	29.71	754.6	82.6	28.1	57	.....	.....	.....	.....	3	6	16	6	.....	.....	.....	4	3.07	78.0
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	28.79	731.3	29.50	749.3	99.1	37.3	23	8	6	6	2	.....	.....	4	1	4	.....	.....	2	3.05	77.5
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	28.64	727.3	29.50	749.2	97.4	36.3	23	1	3	12	.....	3	1	2	.....	9	.....	.....	2	1.17	29.7
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	28.66	728.0	29.52	749.8	99.4	37.4	20	.....	13	4	8	1	1	1	3	.....	.....	.....	2	0.50	12.7
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.54	724.8	29.52	749.8	105.4	40.8	17	2	8	9	5	2	.....	.....	.....	5	.....	.....	4	0.27	6.9
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1341	409	28.25	717.6	29.54	750.4	102.1	38.9	17	1	17	7	3	2	.....	.....	1	.....	.....	.....	2	0.24	6.1
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	113	29.17	740.8	29.53	750.0	97.6	36.4	39	1	8	12	2	1	2	1	3	1	.....	.....	1	0.29	7.4
Alahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.21	741.9	29.51	749.4	102.3	39.1	23	1	17	3	.....	.....	1	1	4	4	.....	.....	1	0.34	8.6
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.34	745.4	29.52	749.8	96.6	35.9	38	2	8	.....	.....	.....	.....	8	12	1	.....	.....	2	0.15	3.8
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.58	700.6	29.52	749.8	93.6	34.2	26	9	11	1	2	1	3	3	1	.....	.....	.....	4	1.54	39.1
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.51	749.5	29.59	751.5	89.3	31.8	63	.....	9	18	2	.....	2	.....	.....	.....	.....	.....	4	4.75	120.6
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	6	29.56	750.8	29.58	751.4	87.2	30.7	71	1	.....	1	11	14	3	1	.....	.....	.....	.....	5	1.10	29.5
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	115	35	29.49	749.0	29.61	752.0	80.0	26.7	80	1	.....	.....	.....	1	1	10	8	10	.....	.....	0	15.44	392.2
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.60	751.9	29.69	754.1	82.5	28.1	81	.....	1	3	5	12	5	1	2	2	.....	.....	6	0.42	10.7
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.34	745.2	29.68	753.8	79.3	26.3	83	.....	.....	.....	13	.....	2	.....	16	.....	.....	.....	8	9.46	240.3
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.16	715.3	29.54	750.4	98.6	37.0	29	1	12	10	3	.....	1	.....	3	1	.....	.....	2	2.05	52.1
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.20	716.3	.....	.....	99.0	37.2	26	.....	7	10	3	1	6	4	.....	.....	.....	.....	2	0.08	2.0
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	29.93	760.2	.....	.....	81.3	27.4	74	...*b*	.....	.....	7	14	8	.....	.....	.....	.....	.....	6	7.26	184.4

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for May, 1883. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
ITALIAN.	° ′	° ′																								
Udine	N. 46 04	E. 13 13	1.01 p.m.	381	116	29.52	749.9	29.93	760.1	67.5	19.7	56	1	.....	1	11	9	3	4	1	1	.....	.....	7	5.56	141.3
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.41	747.1	29.92	760.0	68.0	20.0	51	1	5	2	10	2	5	2	4	.....	.....	.....	6	3.76	95.4
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.80	757.0	29.91	759.7	67.6	19.8	53	2	.....	3	4	3	10	6	2	1	.....	.....	6	4.11	104.3
Moncalieri	N. 45 00	E. 7 41	0.39 p.m.	846	258	29.01	736.8	29.90	759.4	67.6	19.8	58	6	8	1	1	2	3	6	4	.....	.....	.....	6	5.22	132.7
Genoa	N. 44 24	E. 8 55	0.44 p.m.	157	48	29.76	755.8	29.95	760.6	63.5	17.5	66	4	.....	.....	13	4	9	1	.....	.....	.....	.....	6	3.78	95.9
Mondovi *a*	N. 44 23	E. 7 48	0.39 p.m.	1824	556	28.00	711.3	29.88	759.0	63.3	17.4	52	2	9	7	1	2	3	3	3	.....	.....	.....	4	2.07	52.5
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	29.88	759.0	29.93	760.2	65.3	18.5	76	6	.....	.....	3	1	15	1	5	.....	.....	.....	6	1.39	35.4
Florence	N. 43 46	E. 11 15	0.53 p.m.	240	73	29.68	753.8	29.93	760.2	68.5	20.3	50	1	1	9	9	5	.....	1	5	.....	.....	.....	6	2.31	58.6
Leghorn	N. 43 33	E. 10 18	0.49 p.m.	79	24	29.81	757.1	29.89	759.3	65.7	18.7	63	1	3	8	6	8	.....	.....	5	.....	.....	.....	6	2.44	62.0
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.76	756.0	29.93	760.3	70.9	21.6	44	2	.....	15	6	4	.....	.....	1	3	.....	.....	5	1.88	47.8
Lecce	N. 40 22	E. 18 12	1.21 p.m.	236	72	29.67	753.7	29.93	760.1	70.3	21.3	44	4	8	2	6	1	5	2	3	.....	.....	.....	3	0.21	5.3
Cosenza	N. 39 19	E. 16 17	1.13 p.m.	840	256	29.06	738.2	29.93	760.2	72.0	22.2	72	.....	2	7	9	8	5	.....	.....	.....	.....	.....	4	2.78	70.6
Cagliari	N. 39 30	E. 9 00	0.45 p.m.	180	55	29.74	755.4	29.93	760.3	68.7	20.4	53	.....	9	3	.....	3	14	.....	.....	2	.....	.....	4	1.08	27.4
Palermo	N. 38 07	E. 13 21	1.02 p.m.	236	72	29.74	755.3	29.98	761.6	68.5	20.3	47	3	.....	4	1	.....	.....	2	21	.....	.....	.....	4	0.69	17.5
Syracuse	N. 37 03	E. 15 15	1.09 p.m.	72	22	29.89	759.3	29.94	760.4	69.6	20.9	61	6	.....	3	2	5	1	7	7	.....	.....	.....	6	0.12	3.0
Sub-Series.																										
Naples	N. 40 52	E. 14 15	1.05 p.m.	489	149	29.44	747.7	29.95	760.7	68.2	20.1	62.7	2	1	3	15	3	2	2	3	.....	.....	.....	5	2.34	59.5
Stelvio	N. 46 32	E. 10 25	0.50 p.m.	8343	2543	22.13	562.1	.....	.....	35.1	1.7	75.4	.....	1	6	9	1	3	5	6	.....	.....	.....	7	9.57	243.0
Valdobbia *a*	N. 45 47	E. 7 51	0.40 p.m.	8360	2548	22.13	562.1	.....	.....	41.6	5.3	65.0	5	3	1	2	1	8	8	2	.....	.....	.....	8	6.93	176.0
JAPANESE.																										
Akita	N. 39 42	E. 140 07	9.28 p.m.	32	10	29.87	758.6	29.90	759.5	52.3	11.3	79.3	....	1	3	2	2	2	2	.....	19	.....	.....	6	3.96	100.5
Awomori	N. 40 51	E. 140 45	9.31 p.m.	32	10	29.84	758.0	29.88	758.9	48.8	9.3	80.7	7	3	2	4	5	2	0	2	.....	.....	.....	6	2.37	60.1
Hamamatsu	N. 34 43	E. 137 43	9.19 p.m.	26	8	29.88	758.9	29.91	759.6	60.4	15.8	82.0	3	1	4	.....	1	.....	7	2	13	.....	.....	5	7.85	199.5
Kanazawa	N. 36 33	E. 136 40	9.14 p.m.	95	29	29.81	757.2	29.91	759.8	56.7	13.7	81.8	.....	5	2	6	1	8	7	2	.....	4497	7237	6	5.70	144.6
Kagoshima	N. 31 35	E. 130 33	8.50 p.m.	14	4	29.91	759.6	29.92	759.9	64.3	17.9	79.3	5	7	.....	3	.....	1	4	5	6	.....	.....	7	15.56	394.8
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.74	755.4	29.91	759.8	58.8	14.9	78.8	13	1	6	.....	2	....	3	0	.....	3450	5552	6	4.45	112.8
Kochi	N. 33 33	E. 133 34	9.02 p.m.	20	6	29.90	759.3	29.92	760.0	64.3	18.0	79.7	2	6	15	1	2	.....	2	3	.....	5510	8807	6	13.13	333.7
Miasaka	N. 31 56	E. 131 26	8.54 p.m.	26	8	29.90	759.4	29.92	760.1	64.2	17.9	83.9	6	2	7	.....	3	1	5	0	1	.....	.....	6	18.90	480.1
Miyako	N. 39 38	E. 141 59	9.36 p.m.	98	30	29.81	757.2	29.92	760.0	48.7	9.3	83.2	2	1	14	1	4	.....	4	2	3	2049	3298	6	3.51	89.1
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	29.70	754.4	29.90	759.5	62.9	17.2	80.4	4	1	3	3	.....	3	2	5	10	3121	5023	6	6.00	167.3
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	29.87	758.7	29.91	759.6	54.9	12.7	80.2	7	.....	3	3	1	9	1	7	.....	5917	9522	6	2.58	65.6
Nobiru	N. 38 23	E. 141 11	9.32 p.m.	15	5	29.90	759.4	29.91	759.8	52.5	11.4	84.7	14	2	1	.....	5	2	5	1	1	8205	13205	7	3.46	88.0
Numazu	N. 35 06	E. 138 51	9.23 p.m.	32	10	29.87	758.7	29.91	759.6	59.6	15.3	79.5	2	.....	2	.....	5	1	0	2	13	.....	.....	6	3.63	92.3
Osaka	N. 34 42	E. 135 30	9.10 p.m.	13	4	29.89	759.3	29.91	759.7	61.0	16.1	78.2	3	1	9	1	1	....	8	8	.....	7385	11885	6	3.34	84.6
Sakai	N. 35 01	E. 133 31	9.01 p.m.	10	3	29.69	759.1	29.90	759.4	58.9	14.9	81	6	1	5	1	.....	.....	6	9	3	.....	.....	5	4.05	102.9
Shimonoseki	N. 33 58	E. 130 56	8.52 p.m.	13	4	29.77	755.9	29.91	759.7	60.6	15.9	81	.....	1	5	2	.....	.....	3	.....	20	.....	.....	6	7.08	179.9
Tokei	N. 35 41	E. 139 46	9.27 p.m.	69	21	29.84	757.8	29.91	759.7	58.3	14.6	81.2	10	3	.....	1	8	3	0	.....	.....	6550	10541	6	4.41	111.9
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	29.85	758.1	29.90	759.4	62.4	16.9	94.3	4	3	1	.....	4	1	3	5	10	3412	5490	6	3.73	94.0
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.87	758.7	30.06	763.4	75.8	24.3	72.3	1	.....	1	.....	.....	9	15	5	.....	.....	.....	5	6.25	158.8
MEXICAN.																										
Guanajuato	N. 21 01	W. 100 48	5.24 a.m.	6762	2061	23.69	601.7	29.91	759.7	61.3	16.3	74.7	2	.....	3	3	4	1	3	5	10	.....	.....	5	6.61	167.8
Leon	N. 21 07	W. 101 35	5.22 a.m.	5901	1799	24.32	617.7	29.98	761.5	59.1	15.1	83.9	2	5	3	5	3	1	2	.....	10	.....	.....	7	6.40	162.6
Mazatlan	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.68	754.0	29.94	760.6	69.8	21.0	86.2	2	7	3	.....	.....	.....	13	6	.....	.....	.....	6	1.83	46.5
Mexico	N. 19 26	W. 99 00	5.32 a.m.	7490	2283	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Morelia	N. 19 42	W. 101 06	5.22 a.m.	6247	1940	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabellon	N. 22 04	W. 102 04	5.20 a.m.	6312	1924	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Puebla	N. 19 02	W. 98 03	5.36 a.m.	7113	2168	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zacatecas	N. 22 44	W. 102 20	5.18 a.m.	8100	2469	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sub-Series.																										
Altata *d*	N. 24 40	W. 107 55	4.56 a.m.	?	?	.....	.....	.....	.....	66.7	19.3	86.8	4	4	.....	1	2	3	4	7	2	.....	.....	4	0.19	4.8
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	29.97	761.2	29.97	761.2	58.6	14.8	.....	9	5	7	3	2	2	2	1	.....	.....	.....	.....	2.65	67.2
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	29.88	758.9	29.93	760.3	57.2	14.0	.....	5	8	4	1	6	1	5	1	.....	.....	.....	.....	1.55	39.4
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	29.95	760.7	29.95	760.7	53.4	11.9	.....	3	8	3	9	1	.....	.....	7	.....	.....	.....	.....	1.03	26.1
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	29.96	760.9	29.96	760.9	60.3	15.7	58.1	5	5	8	4	1	....	1	3	4	.....	.....	.....	1.66	42.3
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	29.91	759.8	29.96	761.0	62.4	16.9	61.6	6	7	6	3	2	5	1	1	.....	.....	.....	5	1.45	36.8
Sub-Series.																										
Batavia	S. 6 11	E. 106 48	7 15 p.m.	?	?	29.84	758.0	.....	.....	79.9	26.6	86.0	16	1	.....	.....	1	.....	2	11	.....	.....	.....	5	4.36	110.8
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.77	756.2	29.84	757.8	51.3	10.7	60.5	2	8	3	2	13	3	.....	.....	.....	.....	.....	6	7.00	177.8
Bruno	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.76	755.8	29.80	759.8	50.0	10.0	64.4	6	3	1	10	6	....	1	1	3	.....	.....	7	3.96	100.5
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.66	753.4	29.81	757.1	57.7	14.3	46.8	2	1	1	10	12	1	.....	4	.....	.....	.....	5	1.75	44.5
Gjuesvaer	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.84	757.8	29.86	758.4	44.2	6.8	.....	1	1	2	1	4	6	5	5	6	.....	.....	8	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.74	755.4	29.79	756.6	46.9	8.3	66.8	2	.....	.....	10	2	1	2	0	8	.....	.....	6	4.00	101.5
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	29.97	761.1	30.12	765.1	60.8	16.0	77.8	12	4	6	.....	.....	1	2	6	.....	.....	.....	4	3.51	89.2
Campo Major	N. 39 02	W. 6 59	11.40 a.m.	945	288	28.97	735.7	29.95	760.7	65.3	18.5	61.4	1	2	4	7	8	1	5	3	.....	.....	.....	6	5.55	140.9
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	29.98	701.5	30.07	763.8	64.9	18.3	66.4	....	.....	5	19	3	3	.....	1	.....	.....	.....	7	3.65	92.6
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	312	95	29.66	753.3	29.99	761.8	62.1	16.7	67.9	5	3	.....	8	8	.....	2	5	.....	.....	.....	6	4.33	110.0
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.04	702.9	30.11	764.7	62.2	16.8	68.0	15	4	1	1	1	.....	3	0	.....	.....	.....	5	4.18	106.3
St. Paul de Loandao	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.71	754.7	29.91	759.8	78.8	26.0	89.3	1	5	3	6	.....	1	.....	.....	.....	.....	.....	4	0	0
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.22	640.6	29.97	761.1	46.0	7.8	83.1	.....	2	3	3	2	3	15	2	1	.....	.....	8	14.08	357.5
RUSSIAN																										
Akmolinski	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.80	731.5	29.84	758.0	64.0	17.8	33.5	1	.....	4	6	4	2	5	9	.....	.....	.....	4	1.18	30.1
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.87	758.8	29.89	759.3	52.7	11.5	58.5	1	8	4	2	1	5	6	1	3	.....	.....	7	1.29	32.8
Ashurada	N. 36 54	E. 53 55	3.44 p.m.	79	24	29.98	761.5	29.89	759.1	74.8	23.8	72.7	4	10	12	1	1	.....	.....	1	2	.....	.....	6	0.78	19.8
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	68	21	30.00	762.0	29.92	759.9	76.8	24.9	38.6	3	2	4	4	1	10	5	1	1	.....	.....	5	0.99	25.2
Baku	N. 40 21	E. 49 51	3.28 p.m.	39	12	29.95	760.8	29.91	759.6	71.2	21.8	64.0	7	1	.....	.....	11	3	1	3	2	.....	.....	2	0.01	0.3
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.46	748.4	29.96	761.0	52.9	11.6	39.0	.....	11	5	4	1	3	1	5	1	.....	.....	6	1.01	25.6
Bielosersk	N. 60 02	E. 37 47	2.39 p.m.	430?	131?	29.42	747.2	29.88	758.9	56.8	13.8	69.8	8	4	6	2	2	3	2	4	.....	.....	.....	8	2.75	69.9
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.62	752.3	29.86	758.4	56.1	13.4	65.0	2	4	5	5	3	3	4	5	.....	.....	.....	8	2.04	67.1
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.98	736.1	29.92	760.0	62.6	17.0	42.2	4	3	6	3	3	9	1	1	1	.....	.....	7	0.50	12.8
Elissawetgrad	N. 48 31	E. 32 17	2.17 p.m.	417?	127?	29.39	746.6	29.83	757.6	70.7	21.5	45.9	2	4	4	6	1	3	8	3	.....	.....	.....	7	3.14	79.8
Irkutsk	N. 52 16	E. 104 16	7.05 p.m.	1536	468	28.29	718.6	29.93	760.2	48.4	9.1	54.1	6	9	.....	1	1	3	.....	1	10	.....	.....	7	0.50	12.8
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.63	752.6	29.89	759.2	69.3	20.7	44.1	4	3	8	3	3	3	4	2	1	.....	.....	5	1.07	42.5
Kem	N. 64 57	E. 34 39	2.26 p.m.	43	13	29.83	757.7	29.88	759.0	46.9	8.3	65.7	2	1	3	4	.....	3	0	11	1	.....	.....	8	0.58	14.6
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	29.81	758.0	29.87	758.6	65.8	18.8	68.5	2	1	1	3	6	8	1	.....	9	.....	.....	5	0.04	0.9
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.18	741.1	29.79	756.7	64.6	18.1	56.9	6	2	4	3	1	8	4	3	.....	.....	.....	6	3.30	83.9
Kos'ov	N. 52 53	E. 40 31	2.50 p.m.	466?	142?	29.36	745.7	29.88	758.9	68.0	20.0	54.6	3	4	3	4	6	4	2	4	1	.....	.....	6	1.94	49.4
Libau	N. 56 31	E. 21 01	1.32 p.m.	20	6	29.87	758.7	29.89	759.3	50.2	10.1	70.1	1	8	9	4	4	2	2	1	.....	.....	.....	4	1.93	49.0
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.62	752.3	29.80	756.8	73.0	22.8	45.3	.....	2	3	7	4	5	7	3	.....	.....	.....	7	3.30	83.7
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.40	746.8	29.86	758.4	66.0	18.9	46.5	4	2	1	9	7	3	.....	4	1	.....	.....	6	1.20	30.6
Nikolajev	N. 46 58	E. 31 58	2.16 p.m.	62	19	29.79	756.6	29.86	758.4	70.9	21.6	61.3	.....	1	3	4	7	1	2	2	11	.....	.....	4	1.60	40.5
Nikolaievsk *b*	N. 53 08	E. 140 45	9.31 p.m.	59	18	29.80	757.0	29.89	759.2	37.0	2.8	79.9	.....	1	.....	.....	.....	3	9	3	13	.....	.....	7	0.78	19.8
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	29.67	753.5	29.81	757.1	67.5	19.7	50.7	.....	4	.....	5	5	3	.....	2	12	.....	.....	4	1.83	46.4
Petro-Alexandrovsk	N. 41 48	E. 61 05	4.12 p.m.	328	100	29.53	750.1	29.86	758.5	86.0	30.0	21.4	3	8	9	.....	.....	2	.....	5	4	.....	.....	5	0.24	6.2
Petrozavodsk	N. 61 47	E. 34 23	2.26 p.m.	180?	55?	29.65	751.0	29.84	758.0	52.5	11.4	68.0	1	3	4	3	.....	13	3	4	.....	.....	.....	7	3.65	92.7
Pinsk	N. 52 07	E. 26 06	1.52 p.m.	459?	140?	29.36	745.7	29.85	758.1	60.8	16.0	62.4	4	6	4	4	4	2	4	3	.....	.....	.....	6	4.53	115.1
Poti	N. 42 09	E. 41 37	2.54 p.m.	466?	142?	29.87	758.7	29.90	759.5	69.8	21.0	85.8	1	7	4	6	3	.....	8	.....	2	.....	.....	4	1.10	27.8
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	20	6	29.83	757.7	29.85	758.3	53.8	12.1	59.4	1	13	2	2	3	3	4	3	.....	.....	.....	7	2.14	54.4
Samarkand *b*	N. 39 39	E. 66 57	4.36 p.m.	2379?	725?	27.48	698.0	29.83	757.7	76.6	24.8	44.6	2	2	1	2	6	.....	1	....	15	.....	.....	3	0.08	2.1
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.34	745.1	29.98	761.4	63.9	17.7	33.4	5	7	7	3	1	3	.....	4	1	.....	.....	5	0.34	8.7
Sevastopol	N. 44 37	E. 33 31	2.22 p.m.	423?	42?	29.65	753.1	29.80	757.0	64.4	18.0	66.5	.....	11	5	9	4	1	.....	.....	1	.....	.....	6	1.40	35.5
Starol Bykhov	N. 53 31	E. 30 16	2.09 p.m.	423?	129?	29.42	747.2	29.87	758.6	62.4	16.9	59.2	5	3	1	3	5	5	1	8	.....	.....	.....	9	4.16	105.6
Tashkend	N. 41 20	E. 69 18	4.45 p.m.	1607?	490?	28.22	716.8	29.79	756.7	80.6	27.0	32.0	4	4	.....	1	.....	.....	.....	1	21	.....	.....	5	0.20	5.0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Wind. Total Movement. Miles	Wind. Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
RUSSIAN.—Cont'd.	° ′	° ′																								
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1313	409	28.51	724.2	29.87	758.7	75.6	24.2	41.4	3	8	2	2	6	6	3	.....	1	.....	.....	5	1.65	41.8
Vernoe	N. 43 16	E. 76 53	5.16 p.m.	2401?	732?	27.36	695.0	29.76	756.0	69.4	20.8	43.7	1	3	5	3	3	1	4	5	6	.....	.....	5	0.63	16.1
Viatka *a*	N. 58 36	E. 49 41	3.27 p.m.	581?	177?	29.24	742.7	29.86	758.3	61.7	16.5	53.4	1	5	5	4	4	2	3	2	4	.....	.....	4	1.58	40.0
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.47	748.5	29.89	759.2	59.5	15.3	53.2	8	6	6	4	1	1	2	3	.....	.....	.....	6	3.27	83.1
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	29.69	754.2	29.98	761.6	38.5	3.6	65.1	1	1	18	4	3	2	1	.....	1	.....	.....	7	1.58	40.3
SCOTTISH.																										
Monach Light H.	N. 57 31	W. 7 42	11.37 a.m.	150	46	.....	.....	29.88	758.9	48.9	9.4	92.3	4	2	5	4	8	.....	.....	7	1	.....	.....	8	3.00	76.2
North Unst	N. 60 51	W. 0 53	0.04 p.m.	230	70	.....	.....	29.78	756.4	.....	.....	.....	9	1	4	9	6	1	.....	1	.....	.....	.....	6	.....	.....
SPANISH.																										
Barcelona	N. 41 23	E. 2 15	0.16 p.m.	98	30	29.89	759.3	30.00	762.0	68.0	20.0	55	.....	.....	3	10	6	6	6	.....	.....	2211	3558	3	0.78	19.9
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	29.93	760.1	29.98	761.6	68.9	20.5	57	.....	25	1	1	2	2	.....	.....	.....	2037	3278	6	2.27	57.7
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.03	686.6	29.96	760.9	60.6	15.9	51	3	1	4	7	4	.....	3	7	2	4596	7396	5	2.89	73.4
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.77	705.3	29.95	760.7	66.4	19.1	50.8	.....	2	2	14	3	6	1	3	.....	71726	11543	6	2.59	65.8
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	29.82	757.3	29.95	760.8	66.0	18.9	60.0	.....	2	1	1	8	6	6	7	.....	1960	3154	6	1.20	30.6
Oviedo	N. 43 23	W. 5 49	11.45 a.m.	800	244	29.15	740.5	30.01	762.2	54.0	12.2	76	15	4	2	.....	.....	1	9	.....	.....	2787	4485	8	4.37	110.9
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.04	737.5	29.92	760.0	62.1	16.7	65.5	6	3	1	8	3	2	.....	5	3	5987	9635	7	5.05	128.3
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	29.96	761.1	30.03	762.8	75.9	24.4	78.9	.....	1	.....	1	1	10	12	6	.....	.....	.....	3	1.82	46.3
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	29.81	757.2	29.87	758.7	82.4	28.0	79.5	2	.....	.....	4	3	13	5	4	.....	3635	6732	4	4.87	123.7
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	29.94	760.4	30.04	762.9	67.2	19.6	68	1	1	6	2	2	3	10	5	.....	.....	.....	4	0.89	22.0
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	29.93	760.1	30.02	762.4	80.1	26.7	87	.....	.....	.....	.....	2	11	2	1	15	.....	.....	3	5.02	127.5
SWEDISH.																										
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.82	757.5	29.86	758.5	49.5	9.7	63	4	.....	.....	5	10	4	2	6	.....	.....	.....	5	1.35	34.2
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.80	756.8	29.85	758.1	51.8	11.0	60	2	2	.....	14	4	2	2	5	.....	.....	.....	6	1.11	28.1
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.78	756.4	29.83	757.7	52.7	11.5	58	4	2	1	1	9	1	4	5	4	.....	.....	5	1.13	28.7
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.68	753.8	29.85	758.3	55.6	13.1	51	5	1	3	9	5	2	3	2	1	.....	.....	7	0.66	16.9
Wisby	N. 57 39	E. 18 19	1.21 p.m.	52	16	29.79	756.7	29.85	758.2	50.5	10.3	68	2	6	10	5	2	2	1	3	.....	.....	.....	4	1.41	35.7
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.72	755.0	29.81	757.2	55.6	13.1	55.3	5	3	3	9	5	1	1	4	.....	.....	.....	7	0.81	20.6
SWISS.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.54	724.9	29.95	760.6	61.7	16.5	55.1	15	1	2	4	7	1	1	.....	.....	.....	.....	6	1.96	49.8
TURKISH.																										
Constantinople	N. 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	29.89	759.3	70.0	21.1	58	9	2	.....	7	2	4	2	5	.....	.....	.....	5	1.00	25.3
Valona	N. 40 27	E. 19 27	1.26 p.m.	105	32	.....	.....	30.03	762.8	71.6	22.0	.....	1	9	3	13	2	1	.....	2	.....	.....	.....	4	0.83	21.0
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	29.93	760.1	74.5	23.6	65.0	2	1	10	13	1	.....	.....	4	.....	.....	.....	3	0.35	8.9
Samakov *c*	N. 42 12	E. 23 45	1.42 p.m.	?	?	26.69	677.9	.....	.....	63.5	17.5	70.1	.....	.....	4	.....	.....	.....	.....	.....	24	.....	.....	7	3.70	94.0
UNITED STATES.																										
Albany	N. 42 39	W. 73 45	7.13 a.m.	75	23	29.90	759.4	29.98	761.5	56.2	13.4	61.6	6	4	3	2	13	1	.....	2	.....	5178	8333	7	3.20	81.3
Alpena	N. 45 05	W. 83 30	6.34 a.m.	609	185	29.29	744.0	29.95	760.7	42.5	5.8	73.1	2	4	11	1	2	3	3	1	4	7544	12141	6	4.56	115.8
Apache, Fort	N. 33 48	W. 109 57	4.48 a.m.	5050	1539	25.01	635.2	29.83	757.7	39.5	4.2	64.2	.....	.....	.....	1	.....	1	19	10	.....	6610	10638	2	0.86	21.8
Assinnaboine, Ft.	N. 48 32	W. 109 42	4.49 a.m.	2710	826	27.16	689.9	30.00	762.0	40.3	4.6	70.6	.....	1	1	13	4	1	5	5	1	8092	13023	6	0.65	16.5
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1131	345	28.90	734.0	30.07	763.8	61.5	16.4	76.6	1	5	9	2	6	4	3	1	.....	5931	9545	4	2.00	50.8
Atlantic City	N. 39 22	W. 74 25	7.10 a.m.	13	4	29.97	761.2	29.98	761.5	54.8	12.7	81.1	4	3	3	3	4	2	4	8	.....	7777	12512	4	1.78	45.2
Augusta	N. 33 28	W. 81 54	6.40 a.m.	183	56	29.89	759.2	30.08	764.0	63.4	17.4	77.4	3	4	4	1	4	5	1	1	8	2801	4508	5	2.47	62.7
Baltimore	N. 39 18	W. 76 37	7.02 a.m.	45	14	29.98	761.5	30.03	762.7	59.1	15.1	65.9	5	4	6	3	2	2	2	6	1	4993	8035	5	1.22	31.0
Barnegat City	N. 39 46	W. 74 06	7.12 a.m.	20	6	29.96	761.0	29.98	761.5	55.2	12.9	82.0	3	4	2	4	1	3	9	5	.....	10660	17155	4	1.97	50.0
Behring Id.	N. 55 12	E. 165 55	11.12 p.m.	20	6	29.79	756.7	29.81	757.2	33.7	0.9	.....	7	7	3	1	6	1	3	3	.....	10388	16718	10	0.38	9.7
Bennett, Fort	N. 44 43	W. 100 39	5.26 a.m.	1510	457	28.37	720.6	29.93	760.2	44.4	6.9	87.1	0	7	2	.....	.....	7	.....	4	5	6875	11064	7	2.35	59.7
Benton, Fort	N. 47 50	W. 110 40	4.45 a.m.	2700	823	27.19	690.6	29.98	761.5	41.8	5.4	69.0	.....	1	.....	4	2	1	1	3	19	4929	7932	4	3.31	84.1
Billings	N. 45 49	W. 108 30	4.54 a.m.	3115?	949?	26.72	678.7	29.90	759.4	40.8	4.9	80.3	4	1	1	3	1	.....	5	6	10	5535	8907	7	3.62	91.9
Bismarck	N. 46 47	W. 100 38	5.26 a.m.	1694	516	28.16	715.3	29.95	760.7	42.5	5.8	77.2	3	7	1	.....	1	2	8	6	3	7476	12031	5	1.15	29.2
Block Id.	N. 41 10	W. 71 36	7.22 a.m.	27	8	29.96	761.0	29.99	761.7	51.6	10.9	82.8	4	5	2	8	3	1	1	7	.....	9725	14041	4	2.89	73.4
Boise City	N. 43 37	W. 116 08	4.24 a.m.	2750	838	27.15	689.6	29.99	761.7	45.1	7.3	79.2	9	8	7	.....	.....	2	.....	3	2	3899	6275	4	2.12	53.8
Boston	N. 42 21	W. 71 04	7.24 a.m.	142	43	29.83	757.7	29.99	761.7	53.9	12.2	76.1	4	5	7	5	1	3	1	5	.....	6581	10591	5	5.11	129.8
Brownsville	N. 25 53	W. 97 26	5.38 a.m.	43	13	29.87	758.7	29.91	759.7	74.4	23.6	84.4	1	.....	1	1	13	6	4	2	3	7261	11685	5	0.83	21.1
Buffalo	N. 42 53	W. 78 53	6.52 a.m.	696	212	29.21	741.9	29.95	760.7	47.7	8.7	76.4	4	3	2	7	7	2	1	5	.....	7934	12768	7	6.45	163.8
Buford, Fort *d*	N. 48 00	W. 103 56	5.12 a.m.	1900	579	28.04	712.2	30.02	762.5	40.9	4.9	77.0	2	2	4	.....	1	3	9	6	.....	7085	11402	4	0.59	15.0
Burlington	N. 44 29	W. 73 13	7.15 a.m.	268	82	29.67	753.6	29.96	761.0	49.8	9.9	70.5	11	.....	1	.....	13	.....	.....	.....	6	5976	9617	7	4.03	117.6
Cairo	N. 37 00	W. 89 10	6.11 a.m.	377	115	29.63	752.6	30.03	762.7	60.0	15.6	75.9	6	3	1	8	4	3	2	4	.....	7725	12432	4	3.85	97.8
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	29.99	761.7	30.01	762.2	60.5	15.8	78.7	6	2	3	8	4	.....	2	4	2	8759	14096	5	3.20	81.3
Cape May *d*	N. 38 56	W. 74 58	7.08 a.m.	27	8	29.95	760.7	29.98	761.5	57.5	14.2	78.7	1	1	3	2	5	2	7	0	.....	11320	18217	4	1.17	29.7
Cape Mendocino	N. 40 26	W. 124 24	3.50 a.m.	637	194	29.29	744.0	29.97	761.2	48.3	9.1	89.5	5	10	.....	1	.....	6	.....	1	8	.....	.....	3	1.67	42.4
Cedar Keys	N. 29 08	W. 83 02	6.36 a.m.	22	7	30.03	762.7	30.05	763.3	72.4	22.4	73.2	6	4	1	1	5	5	5	4	.....	6996	11259	4	1.97	50.0
Charleston	N. 32 47	W. 79 56	6.48 a.m.	52	16	29.98	761.5	30.04	763.0	67.5	19.7	80.1	3	4	2	14	.....	.....	1	5	2	6434	10354	4	8.62	218.9
Charlotte	N. 35 13	W. 80 51	6.44 a.m.	808	246	29.19	741.4	30.03	762.7	62.9	17.2	66.9	5	3	.....	9	4	1	1	5	3	3522	5668	5	1.39	35.3
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.25	742.9	30.06	763.5	59.7	15.4	77.8	5	5	7	4	3	1	3	2	1	4549	7321	4	2.45	62.2
Cheyenne	N. 41 08	W. 104 48	5.09 a.m.	6089	1856	23.95	608.3	29.84	757.9	38.6	3.7	74.1	7	7	6	6	1	1	.....	3	.....	8103	13040	6	3.68	93.5
Chicago	N. 41 52	W. 87 38	6.18 a.m.	661	201	29.23	742.4	29.93	760.2	50.1	10.1	74.7	3	6	3	7	3	4	3	2	.....	6705	10790	7	7.32	185.9
Chincoteague	N. 37 55	W. 75 23	7.06 a.m.	18	5	29.97	761.2	29.99	761.7	57.5	14.2	81.1	3	6	.....	1	9	1	3	8	.....	8161	13134	6	1.90	48.3
Cincinnati	N. 39 06	W. 84 30	5.30 a.m.	620	189	29.35	745.5	30.00	762.0	57.6	14.2	71.9	1	8	2	3	4	8	2	3	.....	4692	7551	5	5.49	139.4
Cleveland	N. 41 30	W. 81 42	6.41 a.m.	690	210	29.23	742.4	29.96	761.0	51.0	10.6	67.5	8	1	4	2	7	6	.....	2	1	6783	10916	6	6.50	165.1
Coleman City	N. 31 53	W. 99 18	5.31 a.m.	1709	521	28.16	715.3	29.95	760.7	60.9	16.1	83.0	3	2	1	1	9	9	1	4	1	6918	11133	5	5.74	145.8
Columbus	N. 39 58	W. 83 00	6.36 a.m.	805	245	29.12	739.6	29.96	761.0	53.7	12.1	70.6	4	3	9	1	7	3	3	.....	.....	6212	9997	6	6.38	162.1
Concho, Fort	N. 31.25	W. 100 24	5.26 a.m.	1900	579	28.03	711.9	29.93	760.2	61.3	16.3	82.1	2	1	1	1	10	2	2	4	8	8119	13066	6	5.35	135.9
Davenport	N. 41 30	W. 90 38	6.06 a.m.	615	187	29.27	743.4	29.91	759.7	52.5	11.4	76.6	3	6	5	4	3	2	5	3	.....	7708	12405	7	5.46	138.7
Davis, Fort	N. 30 38	W. 103 56	5.12 a.m.	4940	1506	25.18	639.6	29.90	759.4	58.2	14.6	59.8	5	2	.....	5	2	1	1	.....	15	4210	6775	2	1.00	25.4
Dayton	N. 46 19	W. 117 56	4.16 a.m.	1660	506	28.24	717.3	30.00	762.0	48.2	9.0	70.8	1	1	.....	15	7	.....	4	3	.....	4574	7361	6	2.90	73.7
Deadwood	N. 44 23	W. 103 43	5.13 a.m.	4600	1402	25.30	642.6	29.82	757.4	40.1	4.5	83.7	.....	2	1	2	3	.....	.....	9	14	2746	4419	6	10.33	262.4
Del. Breakwater	N. 38 48	W. 75 10	7.07 a.m.	20	6	29.98	761.5	30.00	762.0	56.4	13.6	84.3	5	3	3	5	3	2	2	8	.....	11980	19280	4	0.91	23.1
Denver *a*	N. 39 45	W. 105 00	5.08 a.m.	5294	1614	24.66	626.4	29.82	757.4	46.4	8.0	73.3	5	.....	1	3	9	1	2	1	8	4883	7858	5	4.30	109.2
Des Moines	N. 41 35	W. 93 37	5.54 a.m.	849	259	29.03	737.3	29.92	760.0	50.4	10.2	79.2	11	3	1	3	2	6	2	1	2	5732	9225	7	9.76	247.9
Detroit *a*	N. 42 20	W. 83 03	6.36 a.m.	661	201	29.25	742.9	29.95	760.7	49.0	9.8	78.6	5	4	5	5	3	4	4	1	.....	8258	13290	6	5.11	129.8
Dodge City	N. 37 45	W. 100 00	5.28 a.m.	2512	766	27.32	693.9	29.87	758.7	50.7	10.4	75.9	4	4	5	5	2	2	1	5	3	9709	15625	3	5.41	137.4
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.22	742.2	29.92	760.0	49.8	9.9	74.0	4	6	3	2	1	2	6	.....	7	4023	6458	7	7.13	181.1
Duluth	N. 46 48	W. 92 06	6.00 a.m.	644	184	29.22	742.2	29.97	761.2	44.1	6.7	70.1	2	5	5	1	2	.....	.....	10	0	7523	12107	6	2.07	52.6
Eagle Pass	N. 28 44	W. 100 29	5.26 a.m.	780	238	29.10	740.7	29.96	761.0	71.1	21.7	71.9	.....	2	1	.....	1	20	2	1	4	5466	8797	4	0.98	24.9
Eagle Rock	N. 43 32	W. 111 55	4.46 a.m.	4050	1415	25.22	640.6	29.90	759.4	38.8	3.8	71.0	14	.....	2	9	2	.....	.....	.....	4	7252	11671	4	1.12	28.4
Eastport	N. 44 54	W. 66 59	7.40 a.m.	61	18	29.92	760.0	29.99	761.7	45.7	7.6	79.5	5	5	4	2	6	1	3	4	1	6211	9995	5	6.62	168.2
Elliott, Fort	N. 35 30	W. 100 21	5.27 a.m.	2650	808	27.20	690.9	29.90	759.4	51.2	10.7	65.7	5	2	1	2	8	5	.....	6	2	11728	18874	3	4.56	115.8
El Paso	N. 31 47	W. 106 30	5.02 a.m.	3760	1146	26.25	666.7	29.89	759.2	60.1	15.6	41.0	2	2	5	4	.....	2	5	.....	11	4550	7322	1	0.02	0.5
Erie	N. 42 07	W. 80 05	6.48 a.m.	681	208	29.24	742.7	29.96	761.0	50.9	10.5	72.5	2	4	2	9	3	4	.....	6	1	7365	11853	6	6.29	159.8
Escanaba	N. 45 43	W. 87 05	6.20 a.m.	612	186	29.28	743.7	29.94	760.5	42.8	6.0	71.5	7	0	4	.....	4	2	2	1	5	7126	11468	6	1.96	49.8
Fredericksburg	N. 30 17	W. 98 52	5.32 a.m.	1700	518	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Galveston	N. 29 18	W. 94 47	5.49 a.m.	48	15	29.95	760.7	29.99	761.7	72.8	22.7	81.5	1	2	.....	1	14	5	2	5	1	9198	14802	7	6.01	152.7
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.27	743.4	29.93	760.2	48.0	8.9	75.4	5	2	3	3	5	1	4	7	2	8559	13774	6	6.02	152.9
Grant, Fort	N. 32 39	W. 109 57	4.48 a.m.	4856	1481	25.22	640.6	29.82	757.4	54.1	12.3	38.9	6	4	.....	.....	1	5	0	2	3	5953	9578	1	1.16	29.5
Hatteras	N. 35 15	W. 75 40	7.05 a.m.	19	6	29.99	761.7	30.01	762.2	63.1	17.3	83.5	6	3	2	8	2	2	1	7	.....	13978	22495	5	7.81	198.4
Helena	N. 46 34	W. 112 04	4.40 a.m.	4100	1250	25.77	654.5	29.94	760.5	42.5	5.8	68.6	.....	1	6	20	1	.....	1	.....	2	5258	8462	5	1.54	39.1
Huron	N. 44 21	W. 98 09	5.35 a.m.	1305	398	28.55	725.2	29.90	759.4	44.2	6.8	79.6	5	8	2	1	1	7	5	2	.....	8944	14394	6	4.45	113.0
Indianapolis	N. 39 46	W. 86 10	6.23 a.m.	753	229	29.16	740.7	29.95	760.7	55.8	13.2	70.3	1	9	1	9	3	5	1	1	1	4862	7824	6	4.02	102.1
Indianola	N. 28 32	W. 96 31	5.42 a.m.	26	8	29.93	760.2	29.96	761.0	72.9	22.7	84.4	2	.....	2	.....	14	7	1	4	1	10838	17441	5	3.59	91.2
Jacksboro	N. 33 12	W. 98 10	5.35 a.m.	1120	341	28.79	731.3	29.94	760.5	62.7	17.1	59.9	6	1	.....	4	4	14	1	1	.....	7570	12182	4	2.72	69.1
Jacksonville	N. 30 20	W. 81 39	6.42 a.m.	43	13	30.02	762.5	30.06	763.5	70.8	21.6	74.1	1	2	3	4	6	5	2	4	4	3944	6348	4	3.16	80.3
Keogh, Fort	N. 46 22	W. 105 56	5.04 a.m.	2372	723	27.46	697.5	29.91	759.7	43.1	6.2	76.5	4	3	3	1	.....	5	2	3	10	6804	10950	6	2.80	71.1
Keokuk	N. 40 22	W. 91 26	6.02 a.m.	618	188	29.27	743.4	29.92	760.0	55.5	13.1	75.5	4	4	4	6	2	4	3	3	1	7754	12479	6	4.87	123.7

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for May, 1883.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Metr's	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0-10	Inch.	Mill.
U. S.—Continued.	° ′	° ′																								
Key West	N. 24 34	W. 81 49	6.41 a.m.	20	6	30.00	762.0	30.02	762.5	78.7	25.9	72.3	2	1	1	2	.....	6	5	11	3	6245	10050	5	5.58	141.7
Kittyhawk	N. 36 00	W. 75 42	7.05 a.m.	22	7	30.01	762.2	30.03	762.7	60.9	16.1	83.4	1	2	3	10	1	1	.....	13	.....	12926	20801	5	7.76	197.1
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.04	737.6	30.06	763.5	57.1	13.9	81.5	4	.....	.....	7	.....	1	1	12	6	4683	7537	5	3.31	84.1
La Crosse	N. 43 49	W. 91 15	6.03 a.m.	725	221	29.14	740.1	29.90	759.4	49.5	9.7	67.8	9	3	5	1	7	3	1	2	.....	6811	10961	6	3.87	98.3
Leavenworth	N. 39 19	W. 94 57	5.48 a.m.	842	256	29.06	738.1	29.94	760.5	54.0	12.2	73.7	3	6	2	1	8	3	3	2	3	7066	11370	5	7.33	186.2
Lewiston	N. 46 28	W. 117 05	4.20 a.m.	780	238	29.16	740.7	30.00	762.0	49.5	9.7	79.2	.....	2	3	.....	1	5	11	1	8	2481	3993	5	2.01	51.1
Little Rock	N. 34 45	W. 92 06	6.00 a.m.	298	91	29.68	753.9	29.98	761.5	61.9	16.6	80.1	4	3	1	.....	6	.....	4	2	11	4325	6960	5	4.17	105.9
Los Angeles	N. 34 03	W. 118 15	4.15 a.m.	371	113	29.61	752.1	30.01	762.2	53.8	12.1	86.3	2	.....	7	.....	2	2	5	8	5	4871	7839	5	2.02	51.3
Louisville	N. 38 15	W. 85 45	6.25 a.m.	530	162	29.42	747.3	29.97	761.2	58.5	14.7	76.0	4	5	3	3	11	1	2	1	1	6818	10972	6	2.59	65.8
Lynchburg	N. 37 25	W. 79 09	6.52 a.m.	652	199	29.32	744.7	30.00	762.0	62.0	16.7	61.5	.....	4	2	9	3	2	2	3	6	3490	5925	3	1.19	30.2
Mackinaw City	N. 45 47	W. 84 39	6.30 a.m.	605	184	29.29	744.0	29.94	760.5	42.1	5.6	69.6	3	8	6	1	1	4	6	1	1	7956	12802	6	4.49	114.0
Macon, Fort	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.01	762.2	30.02	762.5	63.7	17.6	83.5	7	7	2	8	4	1	.....	2	.....	10269	16526	6	6.67	169.4
Maginnis Fort	N. 47 12	W. 109 10	4.51 a.m.	4340	1324	25.55	649.0	29.96	761.0	40.7	4.8	57.4	.....	4	8	1	.....	8	5	5	.....	7863	12655	6	1.73	43.9
McKavett, Fort	N. 30 48	W. 100 07	5.28 a.m.	2240	683	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marquette	N. 46 34	W. 87 24	6.18 a.m.	673	205	29.22	742.2	29.94	760.5	43.1	6.2	64.9	6	11	4	2	3	1	1	2	1	6832	10511	6	2.65	67.3
Memphis	N. 35 09	W. 90 03	6.08 a.m.	321	98	29.67	753.6	30.00	762.0	62.9	17.2	77.6	2	5	2	2	5	7	1	4	3	4802	7824	5	6.55	166.4
Milwaukee	N. 43 02	W. 87 54	6.16 a.m.	697	212	29.19	741.4	29.93	760.2	47.5	8.6	74.6	4	6	4	3	1	6	1	6	.....	9053	15536	7	5.67	144.0
Missoula, Fort	N. 46 50	W. 114 07	4.32 a.m.	3140	957	26.70	678.2	30.00	762.0	47.1	8.4	65.9	5	9	.....	2	3	.....	2	6	4	4324	6943	6	0.73	18.5
Mobile	N. 30 41	W. 88 02	6.16 a.m.	41	12	30.02	762.5	30.06	763.5	66.8	19.3	81.1	7	6	3	3	4	4	1	2	1	4703	7566	4	8.51	216.2
Montgomery	N. 32 23	W. 86 18	6.23 a.m.	219	66	29.80	756.9	30.03	762.7	63.9	17.7	78.6	1	6	2	4	1	4	.....	4	9	3591	5779	4	2.02	66.5
Moorhead	N. 46 52	W. 96 44	5.41 a.m.	923	281	28.96	735.6	29.94	760.5	39.7	4.3	82.0	11	2	1	1	3	3	4	4	2	9227	14848	5	3.59	91.2
Morgantown	N. 39 40	W. 79 50	6.49 a.m.	963	293	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mt. Washington	N. 44 16	W. 71 18	7.23 a.m.	6279	1914	23.71	602.2	29.89	759.2	31.4	—0.3	91.6	1	16	2	5	6	1	.....	.....	.....	25410	40893	4	9.10	231.1
Nashville	N. 36 10	W. 86 47	6.21 a.m.	507	154	29.45	748.0	30.02	762.5	59.9	15.5	77.3	1	5	2	2	5	7	3	5	1	5549	8930	4	4.79	121.7
New Haven	N. 41 18	W. 72 56	7.16 a.m.	107	32	29.87	758.7	29.99	761.7	53.4	11.9	76.8	7	3	.....	4	4	3	2	6	2	5202	8408	5	4.52	114.8
New London	N. 41 21	W. 72 05	7.20 a.m.	47	14	29.96	761.0	30.01	762.2	56.1	13.4	72.5	7	1	1	4	4	2	4	5	3	4527	7284	4	5.73	145.5
New Orleans	N. 29 58	W. 90 04	6.08 a.m.	52	16	29.98	761.5	30.03	762.7	70.4	21.3	80.2	4	2	1	.....	8	9	5	2	.....	5519	8882	4	5.41	137.4
Newport	N. 41 29	W. 71 19	7.23 a.m.	44	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	29.83	757.7	30.01	762.2	55.5	13.1	73.5	4	1	5	2	4	1	5	4	5	5474	8810	4	3.03	77.0
Norfolk	N. 36 51	W. 76 17	7.03 a.m.	30	9	29.98	761.5	30.01	762.2	63.0	17.2	75.3	6	1	4	10	.....	1	2	5	2	5910	9511	4	4.09	103.9
North Platte	N. 41 08	W. 100 45	5.25 a.m.	2841	866	26.97	685.5	29.86	758.4	47.0	8.3	80.4	1	5	9	1	1	5	8	1	.....	9488	15269	6	4.07	103.4
Olympia	N. 47 03	W. 122 53	3.57 a.m.	36	11	30.03	762.7	30.07	763.8	44.1	6.7	87.4	4	.....	2	3	6	.....	.....	.....	16	1408	2266	6	2.55	64.8
Omaha	N. 41 16	W. 95 56	5.44 a.m.	1113	339	28.76	730.5	29.92	760.0	52.0	11.1	80.0	6	5	2	3	3	6	1	2	3	6626	10662	7	11.29	286.8
Ogdaamie	N. 71 17	W. 156 40	1.41 a.m.	17	5	29.87	758.7	29.89	759.2	18.0	—7.8	99.3	6	1	1	6	1	2	7	7	.....	9199	14804	7	0.31	7.9
Oswego	N. 43 29	W. 76 35	7.02 a.m.	304	93	29.62	752.3	29.95	760.7	48.8	9.3	74.0	2	.....	9	.....	10	3	2	5	.....	7013	11287	6	7.03	178.6
Palestine	N. 31 45	W. 95 40	5.45 a.m.	523	162	29.46	748.3	30.01	762.2	66.4	19.1	85.8	3	3	.....	.....	10	2	3	4	.....	7831	12602	6	2.85	72.4
Pensacola	N. 30 25	W. 87 13	6.19 a.m.	30	9	30.03	762.7	30.06	763.5	68.2	20.1	79.1	5	8	1	3	7	3	2	2	.....	6089	9799	5	7.47	189.7
Philadelphia	N. 39 57	W. 75 09	7.07 a.m.	92	28	29.91	759.7	30.01	762.2	57.4	14.1	86.0	6	3	4	7	2	1	3	5	.....	5798	9330	4	1.91	48.5
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	17.74	450.6	29.80	756.9	15.6	—9.1	87.8	1	9	6	10	.....	1	.....	4	.....	10762	26974	4	2.80	71.1
Pioche	N. 37 56	W. 114 26	4.30 a.m.	6110	1862	23.99	609.3	29.91	759.7	43.5	6.4	57.7	0	9	.....	2	11	3	.....	.....	.....	6412	10318	4	0.33	8.4
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	762	232	29.17	740.9	29.97	761.2	54.7	12.6	71.6	3	4	2	3	4	3	3	2	6	3998	6369	6	5.38	136.6
Poplar River	N. 48 08	W. 105 10	5.07 a.m.	2030	619	27.85	707.4	29.97	761.2	.....	.....	.....	1	1	1	12	.....	15	.....	1	.....	.....	.....	1	0.68	17.3
Port Eads	N. 29 09	W. 89 15	6.11 a.m.	7	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Huron	N. 43 00	W. 82 26	6.38 a.m	633	193	29.26	743.2	29.94	760.5	46.1	7.8	81.4	8	.....	3	7	6	3	2	2	.....	8843	14232	6	5.69	144.5
Portland, Maine	N. 43 39	W. 70 15	7.27 a.m.	45	14	29.93	760.2	29.98	761.5	51.7	10.9	71.8	4	2	2	3	4	3	6	7	.....	6006	9664	6	2.91	73.9
Portland, Oreg	N. 45 32	W. 122 43	3.57 a.m	67	20	29.96	761.0	30.03	762.7	49.8	9.9	81.9	6	5	2	1	10	.....	2	.....	5	4284	6895	6	1.67	42.4
Portsmouth	N. 35 02	W. 76 04	7.04 a.m.	40	12	.....	.....	.....	.....	61.7	18.2	81.7	2	2	3	9	2	1	1	11	.....	13540	21790	6	10.57	268.5
Prescott	N. 34 33	W. 112 28	4.38 a.m.	5340	1628	24.72	627.9	29.82	757.4	43.1	6.2	54.6	.....	1	1	7	15	.....	1	.....	6	6608	10634	1	0.15	3.8
Provincetown	N. 42 03	W. 70 11	7.27 a.m.	26	8	29.96	761.0	29.99	761.7	52.7	11.5	76.7	5	5	3	8	2	3	3	2	.....	6975	11225	5	3.45	*87.6
Punta Rassa	N. 26 29	W. 82 01	6.40 a.m.	13	4	30.03	762.7	30.04	763.0	72.2	22.3	75.5	3	2	1	2	.....	4	10	9	.....	7264	11691	4	2.62	66.5
Red Bluff	N. 40 10	W. 122 15	3.59 a.m.	350	106	29.62	752.3	29.97	761.2	55.2	12.9	76.0	13	5	.....	.....	9	.....	1	.....	3	5674	9132	4	2.96	75.2
Rochester	N. 43 08	W. 77 42	6.57 a.m.	621	189	29.30	744.2	29.96	761.0	47.6	8.7	76.5	2	4	6	11	3	.....	3	2	.....	9687	15588	6	6.53	165.9
Roseburg	N. 43 13	W. 123 20	3.55 a.m.	511	156	29.49	749.0	30.04	763.0	46.7	8.2	83.7	1	2	.....	2	.....	.....	4	1	21	2395	3854	5	2.29	58.2
Sacramento	N. 38 35	W. 121 30	4.02 a.m.	65	20	29.89	759.2	29.97	761.2	55.3	12.9	81.5	4	4	.....	3	6	12	.....	1	1	5204	8375	4	2.85	72.4
Saint Louis	N. 38 38	W. 90 12	6.07 a.m.	568	173	29.39	746.5	29.98	761.5	55.5	13.1	91.2	7	5	3	1	9	4	2	.....	.....	9362	15005	6	2.89	73.4
Saint Michael, Ft	N. 63 48	W. 162 00	1.20 a.m.	30	9	29.73	755.1	29.76	755.9	33.4	0.8	92.4	5	3	1	2	1	5	1	10	3	5191	8354	7	0.63	16.0
Saint Paul	N. 44 58	W. 93 03	5.56 a.m.	811	247	29.06	738.1	29.90	759.4	45.7	7.6	77.9	4	3	3	.....	5	3	2	4	7	6753	10868	7	2.12	53.8
Saint Vincent	N. 48 56	W. 97 14	5.39 a.m.	804	245	29.10	739.1	29.96	761.0	39.1	3.9	82.8	1	15	.....	3	4	3	.....	5	.....	6857	11034	6	2.13	54.1
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.59	650.0	29.91	759.7	50.4	10.2	45.9	.....	1	1	1	1	6	.....	1	17	3350	5391	3	0.95	24.9
San Antonio	N. 29 25	W. 98 25	5.34 a.m.	673	205	29.27	743.4	29.97	761.2	68.5	20.3	80.8	5	.....	.....	1	6	9	6	1	3	4557	7333	7	0.29	7.4
San Diego	N. 32 43	W. 117 10	4.19 a.m.	67	20	29.90	759.4	29.97	761.2	55.8	13.2	78.6	7	6	2	4	3	2	3	4	.....	5086	8183	5	1.14	29.0
Sandusky	N. 41 25	W. 82 40	6.37 a.m.	639	195	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sandy Hook	N. 40 28	W. 74 00	7.12 a.m.	28	8	29.96	761.0	29.99	761.7	55.5	13.1	79.6	4	6	4	5	3	2	1	6	.....	10534	16953	4	4.66	118.4
Sanford	N. 43 05	W. 89 24	6.10 a.m.	949	289	30.00	762.0	.....	.....	70.8	21.6	81.8	4	2	1	7	3	4	1	7	2	4105	6606	5	2.41	61.2
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	29.92	760.0	29.99	761.7	52.6	11.4	84.9	1	3	13	7	3	1	.....	1	2	7170	11548	6	3.52	89.4
Santa Fé	N. 35 41	W. 105 57	5.04 a.m.	7106	2166	23.21	589.5	29.82	757.4	45.7	7.6	44.3	3	.....	1	3	3	8	9	3	1	9302	15067	3	0.87	22.1
Savannah	N. 32 05	W. 81 05	6.44 a.m.	87	26	29.97	761.2	30.06	763.5	69.3	20.7	71.0	4	3	6	6	7	4	1	.....	.....	5563	8952	3	5.22	132.6
Shaw, Fort	N. 47 31	W. 111 48	4.41 a.m.	3550	1082	26.34	669.0	29.94	760.5	39.5	4.2	78.8	1	3	9	13	.....	1	1	3	.....	6127	9860	6	2.30	58.4
Shreveport	N. 32 30	W. 93 40	5.53 a.m.	227	69	29.76	755.9	30.00	762.0	66.1	18.9	82.7	2	4	2	.....	10	8	3	1	1	4728	7609	6	1.40	35.6
Sill, Fort	N. 34 40	W. 98 23	5.34 a.m.	1200	366	28.71	729.2	29.93	760.2	58.4	14.7	77.5	7	3	.....	1	11	4	.....	4	.....	11426	18388	3	1.46	37.1
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.84	757.9	29.90	759.4	44.7	7.1	77.5	.....	2	4	.....	2	1	13	6	3	6128	9840	7	3.70	94.0
Smith, Fort	N. 35 22	W. 94 24	5.50 a.m.	449	137	29.50	749.3	29.97	761.2	60.5	15.8	78.5	3	2	2	.....	3	1	15	.....	5	4495	7234	4	5.05	143.5
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	29.99	761.7	30.03	762.7	64.9	18.3	78.8	8	2	8	7	.....	.....	.....	6	.....	7849	12632	4	3.60	91.4
Spokane Falls	N. 47 40	W. 117 25	4.18 a.m.	1910?	582?	27.98	710.7	30.02	762.5	46.5	8.1	80.9	4	1	1	6	7	1	5	4	2	3854	6202	5	2.11	53.6
Springfield, Ill	N. 39 48	W. 89 39	6.10 a.m.	644	196	29.28	743.7	29.95	760.7	54.6	12.6	74.0	5	3	5	4	8	1	3	.....	2	6949	11183	6	0.61	107.9
Springfield, Mo	N. 37 12	W. 93 18	5.55 a.m.	1351	412	28.54	724.9	29.96	761.0	50.4	13.6	80.6	3	8	1	2	8	7	1	1	.....	8007	13047	5	7.30	185.4
Starkville	N. 33 35	W. 88 49	6.13 a.m.	455	123	29.58	751.3	30.04	763.0	63.4	17.4	79.6	6	.....	3	3	10	3	2	3	1	6327	10182	4	4.83	122.7
Stevenson, Fort	N. 47 35	W. 101 28	5.22 a.m.	1750	534	28.15	715.0	29.98	761.5	40.2	4.6	84.1	4	2	4	1	1	2	.....	10	2	6797	10938	6	0.53	13.5
Stockton, Fort	N. 30 53	W. 102 53	5.16 a.m.	3010	917	26.95	684.5	29.96	761.0	58.6	14.8	80.6	1	1	3	8	7	10	.....	.....	1	7571	12180	3	2.25	57.1
Thatcher's Island	N. 42 38	W. 70 34	7.26 a.m.	48	15	29.95	760.7	30.00	762.0	49.6	9.8	83.8	6	5	2	3	5	2	.....	8	.....	8215	13220	5	2.62	66.5
Thomas, Camp	N. 33 04	W. 110 02	4.48 a.m.	2710	826	27.19	690.6	29.86	758.4	51.8	11.0	56.3	1	2	5	4	3	2	4	1	9	.....	.....	2	0.79	20.1
Toledo	N. 41 40	W. 83 34	6.34 a.m.	651	198	29.26	743.2	29.94	760.5	52.1	11.2	70.3	5	4	5	5	5	1	4	2	.....	7618	12260	6	5.69	144.5
Tucson	N. 32 14	W. 110 53	4.45 a.m.	2369	722	27.50	698.5	29.84	757.9	55.3	12.9	47.2	.....	.....	.....	1	12	13	2	.....	3	3215	5174	2	0.35	8.9
Unalaska	N. 45 55	W. 119 20	4.11 a.m.	340	103	29.54	750.3	29.56	750.8	38.0	3.3	80.6	2	2	2	6	7	9	1	2	.....	7775	12512	9	10.85	275.6
Verde, Fort	N. 34 33	W. 111 52	4.40 a.m.	?	?	.....	.....	.....	.....	50.8	10.4	38.8	.....	6	2	5	1	14	1	2	.....	.....	.....	0	0.27	6.9
Vicksburg	N. 32 22	W. 90 53	6.04 a.m.	244	74	29.78	756.4	30.03	762.7	64.5	18.1	81.9	2	1	.....	1	3	15	3	4	2	4604	7506	4	2.16	54.9
Visalia	N. 36 20	W. 119 17	4.11 a.m.	348	106	29.57	751.1	29.94	760.5	54.7	12.6	78.6	2	16	1	.....	3	1	3	2	3	3102	4992	4	0.82	20.8
Washakie, Fort	N. 42 59	W. 108 43	4.53 a.m.	5580	1702	24.42	620.3	29.90	759.4	37.9	3.3	84.5	.....	8	8	6	2	4	.....	2	1	4615	7427	5	3.57	90.7
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	29.91	759.7	30.02	762.5	58.1	14.5	73.5	3	4	4	3	4	1	1	7	4	3987	6416	5	2.50	63.5
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	25.97	659.6	29.82	757.4	47.3	8.5	70.0	2	6	9	4	3	.....	3	3	1	9247	14881	5	1.50	38.1
Williamsport	N. 41 15	W. 77 03	7.00 a.m.	561	171	29.40	746.7	30.00	762.0	54.9	12.7	68.5	1	4	12	.....	1	3	6	1	3	4198	6756	6	4.13	104.9
Wilmington	N. 34 14	W. 77 57	6.56 a.m.	52	16	29.98	761.5	30.04	763.0	64.9	18.3	77.2	6	3	8	7	.....	.....	1	5	1	5730	9221	5	4.79	121.7
Winnemucca	N. 40 59	W. 117 43	4.17 a.m.	4327	1319	25.58	649.7	29.93	760.2	40.7	4.8	67.7	.....	.....	2	11	1	.....	2	10	5	5712	9192	4	1.89	48.0
Yankton	N. 42 54	W. 97 28	5.38 a.m.	1228	374	28.63	727.2	29.91	759.7	47.0	8.3	72.9	8	5	4	.....	4	4	1	3	2	7952	12797	5	8.76	222.5
Yuma	N. 32 45	W. 114 36	4.30 a.m.	141	43	29.70	754.4	29.84	757.9	60.6	15.9	62.3	4	12	.....	4	1	.....	1	4	5	4701	7565	1	0	0
Sub-Series.																										
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	22.04	559.8	.....	.....	54.4	12.4	78	2	1	.....	2	4	2	.....	3	17	2305	3782	8	4.53	115.1
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	.....	.....	30.00	762.0	79.6	26.4	74.7	9	3	.....	.....	.....	.....	2	.....	17	1882	3029	4	1.15	29.2
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.02	762.2	30.02	762.5	78.4	25.8	86	.....	.....	.....	.....	.....	20	10	1	.....	.....	.....	9	12.22	310.3
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.39	746.5	29.95	760.7	77.7	25.4	91	2	.....	.....	.....	1	.....	.....	.....	28	.....	.....	9	13.78	350.0
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	78.9	26.1	92.3	2	.....	.....	1	.....	2	2	24	.....	.....	.....	6	1.00	25.4
St. Paul, Alaska	N. 57 47	W. 152 21	1.59 a.m.	54	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Thomas	N. 18 20	W. 64 56	7.48 a.m.	131	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SantiagodeCubaa	N. 19 55	W. 75 50	70.4 a.m.	21	6	29.97	761.2	30.00	762.0	79.2	26.2	73.7	11	5	.....	1	.....	.....	.....	1	12	.....	.....	3	0.83	21.1
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	29.98	761.5	30.04	763.0	31.5	—0.3	94.5	4	10	8	5	1	.....	.....	1	1	8380	13486	3	0.30	7.6

OCEAN SQUARE DATA FOR MAY, 1883.

Location of Centre of each Square.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
	Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 12.5° W. 22.5°	30.02	762.5	78.2	25.7						1		17		13	2.9
12.5 27.5	30.07	763.8	78.9	26.1								19		12	3.0
12.5 32.5	30.09	764.3	77.9	25.5							2	18		11	3.3
12.5 37.5	30.09	764.3	77.9	25.5							1	19		11	3.0
12.5 42.5	30.08	764.0	78.3	25.7						1	5	11		14	3.6
12.5 47.5	30.08	764.0	78.6	25.9							9	9		13	3.1
12.5 52.5	30.08	764.0	78.3	25.7						4	15	6		6	2.9
17.5 22.5	30.05	763.3	75.2	24.0								18		13	2.9
17.5 27.5	30.07	763.8	75.1	23.9								20		11	3.2
17.5 32.5	30.14	765.5	75.5	24.2							1	22		8	3.4
17.5 37.5	30.16	766.1	75.9	24.4							5	18		8	3.8
17.5 42.5	30.15	765.8	76.3	24.6						1	12	9		9	3.5
17.5 47.5	30.15	765.8	76.4	24.7						3	11	7		10	3.1
17.5 52.5	30.12	765.0	77.5	25.3						9	13	4		5	2.9
17.5 57.5	30.08	764.0	79.5	26.4					1	15	12	3			2.9
22.5 22.5	30.08	764.0	72.0	22.2	4							18		9	2.9
22.5 27.5	30.15	765.8	72.7	22.6	2							22		7	2.9
22.5 32.5	30.20	767.1	73.3	22.9	2				1		3	21		4	2.9
22.5 37.5	30.26	768.6	73.9	23.3							6	22		3	3.0
22.5 42.5	30.23	767.8	74.3	23.5						2	12	15		2	3.3
22.5 47.5	30.21	767.3	74.7	23.7						7	17	5		2	3.1
22.5 52.5	30.17	766.3	76.5	24.7					2	13	16				3.0
22.5 57.5	30.13	765.3	77.8	25.4					7	13	9	2			2.9
22.5 62.5	30.08	764.0	78.6	25.9	2			3	4	14	2	6			2.9
22.5 67.5	30.05	763.3	78.9	26.1	2	1	1	2	5	8	4	8			2.4
22.5 72.5	30.04	763.0	79.1	26.2	5	3	1	2	4	5	6	5			2.7
27.5 22.5	30.14	765.5	68.8	20.4	8	1						15		7	2.9
27.5 27.5	30.19	766.8	69.9	21.1	7	1						17		6	3.0
27.5 32.5	30.23	767.8	71.2	21.8	6			1	1		1	19		3	2.9
27.5 37.5	30.27	768.8	72.1	22.3	3	1	1	1		1	4	17		3	3.0
27.5 42.5	30.30	769.6	72.7	22.6						5	11	14		1	2.9
27.5 47.5	30.28	769.1	73.1	22.8						13	10	7		1	3.1
27.5 52.5	30.23	767.8	75.5	24.7						10	10	11			3.0
27.5 57.5	30.23	767.8	75.1	23.9					15	11	4	1			2.9
27.5 62.5	30.10	764.5	75.6	24.2	2	1		4	6	10	4	4			3.0
27.5 67.5	30.08	764.0	76.0	24.4	3	2	4	2	9	5	2	4			3.0
27.5 72.5	30.05	763.3	75.1	23.9	4	5	1	4	4	6	2	5			2.9
27.5 77.5	30.05	763.3	75.2	24.0	7	5	2	2	3	8	1	3			2.7
32.5 12.5	30.03	762.7	66.1	18.9	5	3	4	2	6	1	1	9			2.4
32.5 17.5	30.07	763.8	65.3	18.5	5	2	5	7	3		1	8			1.9
32.5 22.5	30.12	765.0	65.6	18.7	8	2	4	5				10		2	2.9
32.5 27.5	30.16	766.1	66.2	19.0	8	6	2	1				13		1	2.9
32.5 32.5	30.22	767.6	68.1	20.1	10	4		3		1		12	1		3.0
32.5 37.5	30.29	769.4	69.3	20.7	5	2	1	4	1		3	15			3.1
32.5 42.5	30.32	770.1	70.2	21.2	3	3	1	2	3	5	4	9	1		3.0
32.5 47.5	30.31	769.9	71.0	21.7	1	1	2	2	9	9	5	2			2.8
32.5 52.5	30.25	768.3	71.9	22.2	1			4	11	6	6	2	1		2.9
32.5 57.5	30.18	766.6	72.2	22.3	1	2		2	12	7	3	4			3.1
32.5 62.5	30.09	764.3	72.5	22.5	2	2		5	8	10		4			3.6
32.5 67.5	30.05	763.3	71.9	22.2	7	1	1	5	10	4	1	2			3.3
32.5 72.5	30.02	762.5	70.1	21.2	8	4		4	7	5		3			3.3
32.5 77.5	30.03	762.7	67.8	19.9	8	3	2	7	5	1		5			3.1
37.5 12.5	30.02	762.5	62.7	17.1	9	6	1	4	7	1	1	2			2.7
37.5 17.5	30.06	763.5	61.5	16.4	11	6		2	5		2	5			3.0
37.5 22.5	30.08	764.0	61.7	16.5	11	3	1	1	5			10			2.9
37.5 27.5	30.13	765.3	62.0	16.7	14	4	2	2			1	8			2.9
37.5 32.5	30.22	767.5	63.5	17.5	16	4	1	4		1		5			3.1
37.5 37.5	30.28	769.1	65.3	18.5	10	3	3	5	4	1		5			3.3
37.5 42.5	30.30	769.6	66.0	18.9	7	4		6	9			5			3.3
37.5 47.5	30.28	769.1	66.1	18.9	2	3		5	12	4	2	3			3.5
37.5 52.5	30.22	767.6	66.6	19.2	6		2	5	10	6	1	1			3.3
37.5 57.5	30.16	766.1	67.0	19.4	3	2	1	4	10	6	2	3			3.5
37.5 62.5	30.10	764.5	66.1	18.9	3	2		5	12	6	1	2			3.8
37.5 67.5	30.02	762.5	63.4	17.4	5	1	2	4	12	3	2	2			3.8
37.5 72.5	30.00	762.0	61.5	16.4	8	2		3	11	1	2	4			3.3
42.5 12.5	29.99	761.7	60.0	15.6	8	5	3	6	1	2	2	4			2.7
42.5 17.5	30.03	762.7	58.8	14.9	6	7	2	4		3	2	7			3.1
42.5 22.5	30.06	763.5	58.5	14.7	5	8	2	3		3	2	8			3.1
42.5 27.5	30.14	765.5	59.2	15.1	5	7	2	4		2	1	10			3.6
42.5 32.5	30.17	766.3	59.8	15.4	2	8	4	6	1		2	8			3.4
42.5 37.5	30.20	767.1	60.2	15.7	6	6	3	5	6	1		4			3.0
42.5 42.5	30.25	768.3	59.7	15.4	4	8	2	8	6			3			4.0
42.5 47.5	30.22	767.6	56.5	13.6	4	5	3	4	12	1	1	1			3.9
42.5 52.5	30.15	765.8	54.9	12.7	5	2	1	5	12	3	1	2			3.8
42.5 57.5	30.08	764.0	55.8	13.2	5	2	2	4	10	4	1	3			3.7
42.5 62.5	30.04	763.0	52.6	11.4	2	3	2	11	3	6	2	2			3.5
42.5 67.5	29.99	761.7	50.9	10.5	5	4	2	5	4	6	4	1			3.0
47.5 12.5	29.99	761.7	56.3	13.5	3	3	2	8		2	2	11			3.6
47.5 17.5	30.00	762.0	55.5	13.1	7	1	5	7			3	8			3.9
47.5 22.5	30.04	763.0	54.7	12.6	5	4	3	4	3		2	10			4.0
47.5 27.5	30.08	764.0	55.2	12.9	5	3	5	4	2	3	3	6			3.8
47.5 32.5	30.10	764.5	55.3	12.9	7	2	3	7	1	5	3	3			3.8
47.5 37.5	30.09	764.3	55.0	12.8	7	6	4	8	4	1		1			3.8
47.5 42.5	30.09	764.3	52.2	11.2	5	5	3	9	8			1			3.7
47.5 47.5	30.07	763.8	45.3	7.4	3	3	5	10	7	2		1			3.1
52.5 12.5	29.95	760.7	54.4	12.4	5	6	2	6	2	3		7			3.9
52.5 17.5	29.97	761.2	51.4	10.8	7	2	5	8	1	1	1	6			3.6
52.5 22.5	29.97	761.2	50.6	10.3	8	4	3	9	1	1	1	4			3.9
52.5 27.5	30.00	762.0	50.1	10.1	2	4	8	7	2	2	3	3			3.6
52.5 32.5	29.99	761.7	49.7	9.8	2	5	3	10	4	5	1			1	3.5
52.5 37.5	29.99	761.7	48.1	8.9	4	4	3	8	6	1	4	1			3.6
52.5 42.5	29.93	761.5	45.3	7.4	5	3	3	9	5	1	2	2		1	3.3
52.5 47.5	29.98	761.5	41.2g	5.1g	5	5	1	8	3	2		4		3	3.4
57.5 12.5	29.86	758.4	48.0a	8.9a	5	3	5	6	5			7			3.6
57.5 17.5	29.87	758.7	45.9b	7.7b	4	4	4	5	3	1	1	8		1	3.7
57.5 22.5	29.89	759.2	46.5c	8.1c	1	5	6	5	2	1	2	7		2	3.8
57.5 27.5	29.90	759.4	44.1c	6.7c	3	9	4	3	1	2	3	4		2	3.6
57.5 32.5	29.91	759.7	43.1e	6.2e	1	7	2	6	3	2	3	3		4	3.7
57.5 37.5	29.91	759.7	41.6f	5.3f	4	6	2	4	3	2	4	1		5	3.5
57.5 42.5	29.92	760.0	39.3h	4.1h	4	3	2	3	5	3	2	4		5	3.5
57.5 47.5	29.91	759.7			7	2		6	3	2		4		7	3.2

FORT RAE, BRITISH AMERICA, (N. 62° 39′ W. 115° 44′.) Elevation, 700 feet, approximate.

DATE.	Barometer. Corrected for instrumental error and temperature.		Temperature of the air. Dry-bulb.		Temperature of the air. Wet-bulb.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount.		Clouds. Direction.		Rainfall or melted snow in past 24 hours.		WEATHER.
	Inch.	Mill.	Fah.	Cent.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metre prsec.	0–10	Upper. 0–10	Lower. 0–10	Up'er From	Lo'er From	Inch.	Mill.	
1882.																		
September 1	29.18	741.2	47.9	8.8	46.8	8.2		wnw.			2		8 k		nw.			raining.
2	29.42	747.3	47.4	8.6	44.9	7.2		sw.			2		9					d. clouds.
3	29.52	749.8	37.5	3.1	34.5	1.4		nnw.			3		10					overcast.
4	29.64	752.8	35.0	1.7	33.5	0.8		nne.			0–1		1					blue sky.
5	29.53	750.0	39.0	3.9	34.9	1.6		nnw.			1–2		8					d. clouds.
6	29.48	748.8	43.5	6.4	40.0	4.4		nne.			1		9					d. clouds.
7	29.16	740.7	42.3	5.7	41.0	5.0		se.			1		7					d. clouds.
8	29.06	738.1	42.1	5.6	40.8	4.9		w.			0–1		6					d. clouds.
9	29.26	743.2	39.0	3.9	39.0	3.9		calm			0		0					blue sky.
10	29.17	740.9	49.0	9.4	47.5	8.6		ese.			1		1					blue sky.
11	28.92	734.6	51.8	11.0	50.5	10.3		ese.			1		8					d. clouds. 1
12	28.68	728.5	53.5	11.9	53.0	11.7		e.			1		10					raining.
13	28.56	725.4	44.8	7.1	43.6	6.4		s.			4		10					raining. 2
14	28.87	733.3	36.5	2.5	35.1	1.7		s.			1		1					blue sky.
15	29.29	744.0	38.0	3.3	38.0	3.3		calm			0		1					blue sky. 3
16	29.46	748.3	42.0	5.6	40.0	4.4		nw.			1		8					d. clouds.
17	29.22	742.2	37.0	2.8	37.0	2.8		nw.			1		1					blue sky.
18	29.18	741.2	45.7	7.6	45.0	7.2		sse.			5		9					d. clouds. 4
19	28.98	736.1	49.0	9.4	47.8	8.8		ese.			6		6	w.				d. clouds. 5
20	29.05	737.9	45.5	7.5	43.5	6.4		wnw.			4		0					blue sky. 6
21	29.50	749.3	41.0	5.0	38.5	3.6		nw.			6		4					d. clouds.
22	29.55	750.6	34.8	1.6	34.3	1.3		calm			0		0					blue sky. 7
23	29.34	745.2	42.8	6.0	42.5	5.8		se.			6		1	e.				blue sky.
24	29.30	744.2	43.1	6.2	41.2	5.1		se.			4		4					blue sky.
25	28.89	733.8	49.8	9.9	45.8	7.7		ssw.			6		4					blue sky.
26	29.03	737.3	44.0	6.7	41.1	5.1		nnw.			6		10					overcast.
27	29.46	748.3	33.4	0.8	31.5	— 0.3		n.			1		8					d. clouds.
28	29.69	754.1	27.8	— 2.3	26.3	— 3.2		ne.			2		8					d. clouds.
29	29.68	753.9	28.5	— 1.9	27.5	— 2.5		nnw.			3		7					d. clouds.
30	29.86	758.4	31.0	— 0.6	28.9	— 1.7		wnw.			0–1		10					overcast.
Mean	29.26	743.2	41.5	5.3	39.8	4.3							5.9					
October 1	29.99	761.7	27.7	— 2.4	29.5	— 1.4		wnw.			1		2					blue sky.
2	29.76	755.9	30.4	— 0.9	29.0	— 1.7		s.			5		0					blue sky.
3	29.65	753.1	31.0	— 0.6	30.1	— 1.1		calm			0		0					blue sky.
4	29.50	749.3	36.0	2.2	35.0	1.7		s.			2		0					blue sky.
5	29.10	739.1	36.0	2.2	35.1	1.7		calm			0		1					blue sky.
6	29.26	743.2	35.1	1.7	35.0	1.7		e.			4		10					drizzling.
7	29.17	740.9	39.1	3.9	38.0	3.3		ese.			2		10					overcast.
8	29.13	739.9	37.2	2.9	37.0	2.8		e.			1		7					d. clouds.
9	29.09	738.9	37.0	2.8	36.1	2.3		sse.			2		0					blue sky.
10	28.82	732.0	34.0	1.1	33.8	1.0		sse.			1		0					blue sky.
11	28.99	736.3	33.5	0.8	32.4	0.2		n.			3		9					d. clouds.
12	28.93	734.8	36.0	2.2	35.4	1.9		ene.			1		10					drizzling.
13	28.86	733.0	39.2	4.0	37.3	2.9		e.			2		10					overcast.
14	29.07	738.4	34.0	1.1	33.5	0.8		e.			1		10					snowing.
15	29.14	740.1	34.0	1.1	33.9	1.1		sse.			2		10					overcast.
16	29.06	738.1	30.8	— 0.7	29.9	— 1.2		calm			0		9					d. clouds.
17	29.27	743.4	23.2	— 4.9	23.0	— 5.0		wnw.			2		9					d. clouds.
18	29.02	737.1	30.0	— 1.1	29.9	— 1.2		e.			1		8					d. clouds.
19	28.97	735.8	33.8	1.0	33.0	0.6		nnw.			2		10					overcast.
20	29.15	740.4	28.1?	— 2.2?	29.2?	— 1.6?		calm			0		10					overcast.
21	29.00	738.1	28.9	— 1.7	28.3	— 2.1		e.			5		10					overcast.
22	28.87	733.3	32.0	0.0	32.0	0.0		e.			2		10					overcast.
23	29.01	736.8	31.0	— 0.6	31.0	— 0.6		calm			0		10					overcast.
24	29.16	740.7	27.7	— 2.4	27.4	— 2.6		nnw.			0–1		10					snowing.
25	29.20	741.7	24.5	— 4.2	24.0	— 4.4		ese.			1		10					overcast.
26	29.19	741.4	29.0	— 1.7	28.0	— 2.2		ese.			2		10					overcast.
27	29.19	741.4	30.1	— 1.1	29.0	— 1.7		ese.			5		10					overcast.
28	29.00	736.6	33.3	0.7	32.8	0.4		se.			4		10					overcast.
29	28.81	731.8	32.5	0.3	32.4	0.2		ese.			3–6		10					snowing.
30	29.24	742.7	19.0	— 7.2	18.8	— 7.3		nnw.			1		4					blue sky.
31	29.64	752.8	20.8	— 6.2	20.5	— 6.4		nnw.			5		8					d. clouds.
Mean	29.20	741.7	31.5	— 0.3	31.0	— 0.6							7.3					
November 1	29.72	754.9	3.5	—15.8	3.5	—15.8		s.			0–1		0					blue sky.
2	29.83	757.7	24.0	— 4.4	23.0	— 5.0		ssw.			6		10					overcast.
3	29.25	742.9	15.0	— 9.4	14.0	—10.0		nnw.			4		10					overcast.
4	29.27	743.4	23.3	— 4.8	23.0	— 5.0		calm			0		10					snowing.
5	29.28	743.7	9.0	—12.8	9.0	—12.8		nw.			5		10					overcast.
6	29.37	746.0	2.0	—16.7	1.5	—16.9		n.			0–1		1					blue sky.
7	29.53	750.0	— 4.5	—20.3	— 4.5	—20.3		nw.			1		2					blue sky.
8	29.68	753.9	—15.5	—26.4	—15.5	—26.4		calm			0		0					blue sky.
9	29.46	748.8	1.0	—17.2	1.0	—17.2		nne.			0–1		3					blue sky.
10	29.42	747.3	11.9	—11.2	11.6	—11.3		sse.			1		10					overcast.
11	29.13	739.9	22.0	— 5.6	21.5	— 5.8		calm			0		10					overcast.
12	28.86	733.0	4.5	—15.3	4.5	—15.3		calm			0		0					blue sky.
13	28.42	721.9	32.0	0.0	31.4	— 0.3		wsw.			3		4					squally.
14	29.13	739.9	6.4	—14.2	6.4	—14.2		e.			1		10					overcast.
15	29.34	745.2	18.0	— 7.8	18.0	— 7.8		se.			2		10					overcast.
16	29.70	754.4	28.0	— 2.2	26.5	— 3.1		ssw.			5		4					blue sky.
17	28.97	735.8	7.0	—13.9	7.0	—13.9		n.			0–1		2					blue sky.
18	28.90	734.0	18.8	— 7.3	18.8	— 7.3		calm			0		8					d. clouds.
19	28.73	729.7	20.6	— 6.3	20.6	— 6.3		ese.			0–1		9					d. clouds.
20	29.28	743.7	10.6	—11.9	10.6	—11.9		n.			3		7					d. clouds.
21	29.43	747.5	4.1	—15.5	4.1	—15.5		ese.			1		4					blue sky.
22	29.39	746.5	— 8.0	—22.2	— 8.0	—22.2		calm			0		0					foggy.
23	29.29	744.0	14.0	—10.0	14.0	—10.0		e.			0–1		10					overcast.
24	29.34	745.2	17.0	— 8.3	17.0	— 8.3		sse.			0–1		10					overcast.
25	29.45	748.0	18.0	— 7.8	17.5	— 8.1		se.			0–1		10					overcast.
26	29.43	747.5	11.9	—11.2	11.9	—11.2		nne.			2		10					overcast.
27	29.69	754.1	— 7.3	—21.8	7.3	—13.7		wnw.			4		6					d. clouds.
28	29.56	750.8	—10.4	—23.6	—10.4	—23.6		calm			0		10					snowing.
29	29.22	742.2	— 5.3	—20.7	— 5.3	—20.7		nnw.			5		0					blue sky.
30	29.81	757.2	—19.9	—28.8	—19.9	—28.8		nnw.			3		0					blue sky.
Mean	29.32	744.7	—8.4	—13.1	8.2	—13.2							6.0					

FORT RAE—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Mill.	Temperature of the air. Dry-bulb. Fah.	Cent.	Wet-bulb. Fah.	Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Velocity. Miles perhour	Metrs prsec.	Force 0-10	Clouds. Amount. Upper. 0-10	Lower. 0-10	Direction. Up'er From	Lo'er From	Rainfall or melted snow in past 24 hours. Inch.	Mill.	WEATHER.
1882.																		
December 1	29.86	758.4	—28.9	—33.8	—27.0	—32.8		n.			0-1		10					overcast.
2	29.85	758.2	—20.5	—29.2	—19.0	—28.3		calm			0		5	se.				d. clouds.
3	29.45	748.0	—12.0	—24.4	—10.5	—23.6		nne.			0-1		1					blue sky.
4	29.54	750.3	—26.6	—32.6	—24.4	—31.3		nnw.			0-1		1					blue sky.
5	29.86	758.4	—30.9	—34.9	—28.5	—33.0		nnw.			4-5		0					blue sky.
6	30.07	763.8	—32.6	—35.9	—30.2	—34.6		sse.			2		0					blue sky.
7	29.38	746.2	—16.9	—27.2	—15.3	—26.3		ese.			0-1		0					blue sky.
8	29.03	737.3	—10.0	—23.3	— 9.0	—22.8		calm			0		10					snowing.
9	29.28	743.7	—16.2	—20.8	—14.8	—26.0		nnw.			3		9					d clouds.
10	29.64	752.8	—25.1	—31.7	—23.1	—30.6		nnw.			3		0					blue sky.
11	29.82	757.4	—27.0	—32.8	—25.0	—31.7		n.			1-3		6					d. clouds.
12	29.92	760.0	—26.0	—32.2	—23.8	—31.0		calm			0		2					snowing.
13	29.81	757.2	—31.1	—35.1	—28.7	—33.7		n.			0-1		2					snowing.
14	29.64	752.8	—34.1	—36.7	—35.5	—37.5		calm			0		0					blue sky.
15	29.53	750.0	—20.8	—29.3	—23.0	—30.6		calm			0		6					d. clouds.
16	29.20	741.7	—18.5	—28.1	—20.3	—29.1		nnw.			0-1		2					blue sky.
17	28.65	727.7	— 7.9	—22.2	— 7.0	—21.7		calm			0							blue sky.
18	28.80	731.5	—16.3	—26.8	—14.8	—26.0		nnw.			0-1		1					blue sky.
19	29.16	740.7	—35.0	—37.2	—32.4	—35.8		nnw.			0-1		3					d. clouds.
20	29.07	738.4	—32.0	—35.6	—30.0	—34.4		calm			0		1					blue sky.
21	28.96	735.6	—13.0	—25.0	—12.0	—24.4		ese.			3		7					misty.
22	28.74	730.0	— 7.2	—21.8	— 6.3	—21.3		ese.			0-1		1					blue sky.
23	28.64	727.4	11.0	—11.7	11.0	—11.7		calm			0		10					overcast.
24	29.16	740.7	—19.0	—28.3	—16.5	—26.9		calm			0		2					blue sky.
25	29.22	742.2	7.9	—13.4	8.1	—13.3		calm			0		10					overcast.
26	29.15	740.4	— 1.2	—18.4	— 1.1	—18.4		se.			3		7					d. clouds.
27	29.06	738.1	14.0	—10.0	14.2	— 9.9		ssw.			4		2					blue sky.
28	29.65	753.1	— 3.9	—19.9	— 3.1	—19.5		nnw.			5		10					overcast.
29	30.06	763.5	—23.5	—30.8	—21.7	—29.8		calm			0		3					d. clouds.
30	29.73	755.1	—12.5	—24.7	—11.0	—23.9		nnw.			1		8					d. clouds.
31	30.13	765.3	—28.0	—33.7	—26.6	—32.6		nnw.			0-1		0					blue sky.
Mean	29.42	747.3	—17.5	—27.5	—16.4	—26.9							3.9					
1883.																		
January 1	29.83	757.7	—35.2	—37.3	—32.9	—36.1		nnw.			1		0					blue sky.
2	29.91	759.7	—37.2	—38.4	—39.5	—39.7		nnw.			1		0					blue sky. 8
3	29.93	760.2	—40.0	—40.0	—43.0	—41.7		calm			0		0					blue sky.
4	29.82	757.4	—42.0	—41.1	—45.0	—42.8		ene.			0-1		0					blue sky.
5	29.61	752.1	—34.6	—37.0	—37.4	—38.0		ese.			3		0					blue sky.
6	29.49	749.0	—35.0	—37.2	—37.2	—38.4		ese.			0-1		0					blue sky.
7	29.34	745.2	—27.8	—33.2	—30.0	—34.4		ese.			3		0					blue sky.
8	29.04	737.6	—17.0	—27.2	—19.1	—28.4		ese.			0-1		7					d. clouds.
9	29.08	738.6	—14.5	—25.8	—16.4	—26.9		nnw.			3		6					d. clouds.
10	29.59	751.6	—14.5	—25.8	—16.2	—26.8		calm			0		6					d. clouds.
11	29.52	749.8	—17.0	—27.2	—19.0	—28.3		calm			0		10					snowing.
12	29.58	751.3	—16.9	—27.2	—19.1	—28.4		calm			0		2					blue sky.
13	29.27	743.4	—11.9	—24.4	—13.9	—25.5		ese			1		4					d. clouds.
14	29.35	745.5	—22.5	—30.3	—24.7	—31.5		calm			0		0					blue sky.
15	29.47	748.5	—15.0	—26.1	—17.2	—27.3		nw.			2		9					d. clouds.
16	29.96	761.0	—22.9	—30.5	—25.0	—31.7		nnw.			1		0					blue sky.
17	29.85	758.2	—26.1	—32.3	—28.3	—33.5		wnw.			1		4					d. clouds.
18	30.20	767.1	—43.9	—42.2	—46.8	—43.8		calm			0		0					blue sky.
19	29.50	749.3	—20.5	—29.2	—22.5	—30.3		wnw.			0-1		9					d. clouds.
20	29.68	753.9	—21.8	—29.9	—23.9	—31.1		nnw.			3		0					blue sky.
21	29.77	756.1	—31.9	—35.5	—35.0	—37.2		nnw.			0-1		0					blue sky.
22	29.86	758.4	—38.9	—39.4	—41.5	—40.8		calm			0		1					blue sky.
23	29.90	759.4	—40.3	—40.2	—43.5	—41.9		nnw.			0-1		0					blue sky.
24	29.73	755.1	—34.9	—37.2	—37.5	—38.6		ese.			0-1		0					blue sky.
25	28.86	733.0	—30.0	—34.4	—28.0	—33.3		n.			0-1		0					blue sky.
26	29.08	738.6	— 6.9	—21.6	— 5.8	—21.0		calm			0		10					overcast.
27	29.12	739.6	— 9.0	—22.8	— 8.0	—22.2		ene.			0-1		9					d. clouds.
28	29.22	742.2	— 4.1	—20.1	— 3.8	—19.9		nnw.			3		10					overcast.
29	29.44	747.8	—22.5	—30.3	—20.4	—29.1		n.			1		4					d. clouds.
30	29.84	757.9	—37.8	—38.8	—34.8	—37.1		n.			0-1		0					blue sky. 9
31	30.08	764.0	—25.0	—31.7	—27.0	—32.8		nnw.			1		0					blue sky. 10
Mean	29.58	751.3	—22.5	—30.3	—27.2	—32.9							2.9					
February 1	30.32	770.1	—32.0	—35.6	—34.8	—37.1		nnw.			0-1		0					blue sky. 11
2	29.87	758.7	—24.3	—31.3	—26.5	—32.5		ese.			0-1		4					d. clouds.
3	29.63	752.6	— 0.1	—17.8	— 2.0	—18.9		nw.			5		4					d. clouds.
4	29.37	746.0	— 7.5	—21.9	— 9.3	—22.9		sse.			0-1		5					d. clouds.
5	29.37	746.0	5.8	—14.6	5.6	—14.7		nnw.			6-7		4					d. clouds.
6	29.54	750.3	—16.0	—26.7	—14.4	—25.8		nnw.			1		0					blue sky.
7	29.13	739.9	5.8	—14.6	6.0	—14.4		nnw.			5		5					d. clouds.
8	29.45	748.0	— 8.7	—22.6	— 7.7	—22.1		calm			0		10					snowing.
9	29.53	750.0	— 5.5	—20.8	— 4.9	—20.5		nnw.			2		0					blue sky.
10	29.19	741.4	—29.2	—34.0	—26.8	—32.7		calm			0		0					blue sky.
11	29.32	744.7	—14.2	—25.7	—13.3	—25.2		nnw.			4-6		6					d. clouds.
12	29.59	751.6	—23.0	—30.6	—21.0	—29.4		nnw.			3		0					blue sky.
13	29.69	754.1	—32.6	—35.9	—30.0	—34.4		calm			0		0					blue sky.
14	29.34	745.2	—33.8	—36.6	—31.2	—35.1		ese.			0-1		0					blue sky.
15	29.30	744.2	—34.2	—36.8	—31.7	—35.4		calm			0		2					blue sky.
16	29.71	754.6	—29.5	—34.2	—26.8	—32.7		nnw.			0-1		0					blue sky.
17	29.53	750.0	— 2.9	—19.4	— 2.9	—19.4		wnw.			3		3					d. clouds.
18	29.78	756.4	—19.9	—28.8	—18.0	—27.8		calm			0		8					d. clouds.
19	29.68	753.9	— 9.8	—23.2	— 8.2	—22.3		wnw.			2		1					blue sky.
20	29.57	751.1	3.0	—16.1	2.9	—16.2		wnw.			0-1		6					d. clouds.
21	29.43	747.5	— 4.1	—20.1	— 3.1	—19.5		ese.			0-1		4					d. clouds.
22	29.08	738.6	— 8.0	—22.2	— 6.8	—21.6		ne.			0-1		3					blue sky.
23	29.41	747.0	— 5.3	—20.7	— 4.9	—20.5		wnw.			2		10					overcast.
24	29.47	748.5	—24.9	—31.6	—22.9	—30.5		calm			0		2					blue sky.
25	29.69	754.1	—10.3	—23.5	— 9.0	—22.8		ene.			1		10					snowing.
26	29.54	750.3	— 0.9	—18.3	— 0.5	—18.1		ene.			0-1		10					snowing.
27	29.77	756.1	—12.1	—24.5	—11.1	—23.9		n.			0-1		10					overcast.
28	29.56	750.8	— 9.9	—23.3	— 8.8	—22.7		calm			0		10					snowing.
Mean	29.53	750.0	—12.9	—24.9	—12.8	—24.9							4.2					

FORT RAE.—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature.		Temperature of the air. Dry-bulb.		Temperature of the air. Wet-bulb.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount.		Clouds. Direction.		Rainfall or melted snow in past 24 hours.		WEATHER.
	Mill.	Inch.	Fah.	Cent.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metrs pr sec.	0–10	Upper. 0–10	Lower. 0–10	Up'er From	Lo'er From	Inch.	Mill.	
1883.																		
March 1	29.70	754.4	—29.4	—34.1	—27.1	—32.8		calm.			0		1					blue sky.
2	29.78	756.4	—19.9	—28.8	—18.1	—27.8		nnw.			0–1		2					blue sky.
3	30.23	767.8	—25.3	—31.8	—23.2	—30.7		nnw.			0–1		0					blue sky.
4	30.05	763.3	—31.0	—35.0	—28.9	—33.8		ene.			0–1		0					blue sky.
5	29.81	757.2	—31.0	—35.0	—28.5	—33.6		calm.			0		0					blue sky.
6	29.65	753.1	—27.1	—32.8	—25.0	—31.7		ese.			4		0					blue sky.
7	29.15	740.4	—12.1	—24.5	—11.1	—23.9		ene.			0–1		2					blue sky.
8	28.86	733.0	— 1.0	—18.3	— 0.1	—17.8		nne.			2		10					overcast.
9	29.39	746.5	—12.2	—24.6	—11.0	—23.9		ese.			2		2					blue sky.
10	29.55	750.6	— 4.8	—20.4	— 4.1	—20.1		ese.			4		8					d. clouds.
11	29.35	745.5	1.0	—17.2	1.9	—16.7		nnw.			0–1		0					blue sky.
12	29.32	744.7	— 1.8	—18.7	— 1.0	—18.3		ese.			4		10					overcast.
13	29.14	740.1	6.0	—14.4	6.1	—14.4		nw.			6–7		6					squally.
14	29.84	757.9	—19.0	—28.3	—17.2	—27.3		wnw.			0–1		0					blue sky.
15	29.47	748.5	—19.9	—28.8	—18.2	—27.9		ene.			0–1		1					blue sky.
16	29.40	746.7	— 1.4	—18.6	— 1.3	—18.5		calm.			0		10					overcast.
17	29.61	752.1	—40.9	—40.5	—38.0	—38.9		n.			0–1		0					blue sky.
18	29.63	752.6	—24.4	—31.3	—22.6	—30.3		nnw.			0–1		0					blue sky.
19	29.25	742.9	—20.0	—28.9	—18.8	—28.2		ene.			3		4					d. clouds.
20	29.22	742.2	— 2.0	—18.9	— 1.7	—18.7		calm.			0		9					d. clouds.
21	29.44	747.8	—15.5	—26.4	—14.0	—25.6		nnw.			0–1		1					blue sky.
22	29.28	743.7	—11.1	—23.9	—10.1	—23.4		calm.			0		7					d. clouds.
23	29.67	753.6	—24.8	—31.6	—22.7	—30.4		nnw.			1		0					blue sky.
24	30.08	764.0	—27.5	—33.1	—25.3	—31.8		nne.			0–1		0					blue sky.
25	30.15	765.8	—26.3	—32.4	—24.5	—31.4		ese.			0–1		0					blue sky.
26	29.87	758.7	—17.1	—27.3	—16.0	—26.7		ese.			0–1		1					blue sky.
27	29.61	752.1	—13.0	—25.0	—11.8	—24.3		ese.			2		1					blue sky.
28	29.61	752.1	—15.9	—26.6	—14.0	—25.6		ese.			0–1		0					blue sky.
29	29.64	752.8	— 8.2	—22.3	— 7.2	—21.8		ene.			0–1		2					blue sky.
30	29.68	753.9	—16.0	—26.7	—14.8	—26.0		calm.			0		0					blue sky.
31	29.75	755.6	—16.6	—27.0	—14.9	—26.1		n.			0–1		1					blue sky.
Mean	29.59	751.6	—16.4	—26.9	—14.9	—26.1							2.5					
April 1	29.56	750.8	0.0	—17.8	1.0	—17.2		calm.			0		10					overcast.
2	29.36	745.7	— 2.0	—18.9	— 1.4	—18.6		ese.			0–1		8					d. clouds.
3	29.29	744.0	8.3	—13.2	8.3	—13.2		nnw.			3		10					overcast.
4	29.52	749.8	—10.0	—23.3	— 8.9	—22.7		calm.			0		0					blue sky.
5	29.28	743.7	—10.2	—23.4	— 8.8	—22.7		ese.			1		1					blue sky.
6	29.16	740.7	0.9	—17.3	1.1	—17.2		nne.			0–1		10					overcast.
7	29.11	739.4	— 7.2	—21.8	— 6.2	—21.2		calm.			0		4					d. clouds.
8	29.15	740.4	— 2.8	—19.3	— 2.0	—18.9		ene.			0–1		8					d. clouds.
9	29.04	737.6	3.4	—15.9	3.8	—15.7		se.			3		10					snowing.
10	29.02	737.1	5.0	—15.0	5.0	—15.0		e.			0–1		3					blue sky.
11	28.78	731.0	10.1	—12.2	9.8	—12.3		ese.			4		1					blue sky.
12	28.89	733.8	7.9	—13.4	8.1	—13.3		n.			0–1		10					overcast.
13	29.25	742.9	11.6	—11.3	11.1	—11.6		nne.			0–1		9					d. clouds.
14	29.56	750.8	0.6	—17.4	1.5	—16.9		ene.			1		5					d. clouds.
15	29.50	749.3	12.4	—10.9	12.0	—11.1		e.			0–1		10					overcast.
16	29.38	746.2	3.0	—16.1	3.9	—15.6		nne.			0–1		3					d. clouds.
17	29.40	746.7	4.7	—15.2	5.2	—14.9		nne.			0–1		3					blue sky.
18	29.45	748.0	10.0	—12.2	10.8	—11.8		e.			0–1		0					blue sky.
19	29.30	744.2	10.1	—12.1	10.1	—12.2		ese.			2		1					blue sky.
20	29.06	738.1	13.9	—10.1	13.9	—10.1		ese.			2		1					blue sky.
21	28.86	733.0	33.0	0.6	32.9	0.5		ese.			1		10					overcast.
22	29.00	736.6	33.2	0.7	33.2	0.7		nnw.			2		10					rain and snow.
23	29.92	760.0	18.0	— 7.8	17.7	— 7.9		nnw.			1		10					overcast.
24	29.84	757.9	19.0	— 7.2	19.0	— 7.2		ese.			3		4					d. clouds.
25	29.32	744.7	25.9	— 3.4	25.5	— 3.6		ese.			0–1		2					blue sky.
26	29.10	739.1	25.5	— 3.6	25.1	— 3.8		nne.			1		1					blue sky.
27	29.64	752.8	27.0	— 2.8	26.1	— 3.3		n.			0–1		9					d. clouds.
28	29.67	753.6	32.3	0.2	31.6	— 0.2		ese.			3–4		10					overcast.
29	29.66	753.4	35.7	2.1	34.5	1.4		ese.			2		7					d. clouds.
30	29.80	756.9	23.9	— 4.5	25.2	— 3.8		ese.			3		8					d. clouds.
Mean	29.33	745.0	—11.4	11.4	—11.1	—11.6							5.9					
May 1	29.62	752.3	20.8	— 6.2	20.1	— 6.6		ese.			1		6					d. clouds.
2	29.22	742.2	33.2	0.7	32.3	0.2		wnw.			1–3		9					d. clouds.
3	29.68	753.9	7.2	—13.8	7.1	—13.8		nnw.			3		5					d. clouds.
4	29.78	756.4	0.0	—17.8	0.2	—17.7		ne.			0–1		2					blue sky.
5	29.48	748.8	9.3	—12.6	9.2	—12.7		ese.			1		9					d. clouds.
6	29.49	749.0	14.0	—10.0	13.9	—10.1		calm.			0		5		nnw.			d. clouds.
7	29.48	748.8	11.3	—11.5	11.1	—11.6		ese.			1		2					blue sky.
8	29.54	750.3	16.3	— 8.7	15.1	— 9.4		ese.			1		8					d. clouds.
9	29.76	755.9	16.0	— 8.9	15.8	— 9.0		ese.			0–1		1					blue sky.
10	29.72	754.9	30.1	— 1.1	28.0	— 2.2		ese.			3		7					d. clouds.
11	29.74	755.4	28.0	— 2.2	27.4	— 2.6		ese.			1		1					misty.
12	29.63	752.6	26.3	— 3.2	25.5	— 3.6		ese.			0–1		0					blue sky.
13	29.59	751.6	31.0	— 0.6	29.1	— 1.6		ese.			2		1					blue sky.
14	29.58	751.3	29.6	— 1.3	27.8	— 2.3		calm.			0		0					misty.
15	29.31	744.5	30.7	— 0.7	28.7	— 1.8		ese.			2		1					blue sky.
16	29.06	738.1	34.0	1.1	32.0	0.0		ese.			2		2					blue sky.
17	29.03	737.3	35.0	1.7	34.6	1.4		nne.			0–1		3					d. clouds.
18	29.23	742.4	37.6	3.1	36.3	2.4		nne.			0–1		0					d. clouds.
19	29.19	741.4	36.0	2.2	35.0	1.7		e.			3		10					overcast.
20	29.22	742.2	44.2	6.8	40.3	4.6		ese.			1		8					d. clouds.
21	29.16	740.7	36.1	2.3	35.5	1.9		nne.			0–1		3					blue sky.
22	29.13	739.9	36.0	2.2	35.4	1.9		nnw.			0–1		9					d. clouds.
23	29.22	742.2	31.8	— 0.1	30.8	— 0.7		nnw.			1		5					d. clouds.
24	29.36	745.7	30.5	— 0.8	29.9	— 1.2		n.			0–1		2					blue sky.
25	29.42	747.3	36.0	2.2	35.0	1.7		ese.			1		9					d clouds.
26	29.39	746.5	37.7	3.2	36.1	2.3		calm.			0		6					d. clouds.
27	29.41	747.0	36.5	2.5	34.8	1.6		ese.			0–1		8					d. clouds.
28	29.66	753.4	36.2	2.3	35.3	1.8		ene.			0–1		8					d. clouds.
29	29.58	751.3	36.9	2.7	35.0	1.7		wnw.			0–1		2					blue sky.
30	29.90	759.4	45.1	7.3	41.0	5.0		nnw.			0–1		6		nw.			d. clouds.
31	29.36	745.7	31.9	— 0.1	28.3	— 2.1		n.			1		10					overcast.
Mean	29.45	748.0	28.7	— 1.8	27.3	— 2.6							5.0					

FORT RAE—CONTINUED.

DATE.	Barometer. Corrected for instrumental error and temperature.		Temperature of the air. Dry-bulb.		Temperature of the air. Wet-bulb.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount. Upper.	Clouds. Amount. Lower.	Clouds. Direction. Upper	Clouds. Direction. Lo'er	Rainfall or melted snow in past 24 hours.		WEATHER
	Inch.	Mill.	Fah.	Cent.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metrs pr sec.	0-10	0-10	0-10	From	From	Inch.	Mill.	
1883.																		
June 1	29.16	740.7	29.0	— 1.7	28.0	— 2.2		e.			1		0					blue sky.
2	28.96	735.6	46.1	7.8	42.0	5.6		ene.			0-1		2					blue sky.
3	29.05	737.9	43.0	6.1	41.2	5.1		nnw.			0-1		6					d. clouds.
4	29.01	736.8	43.0	6.1	41.0	5.0		ene.			0-1		3					d. clouds.
5	29.20	741.7	39.0	3.9	37.7	3.2		nnw.			0-1		3					d. clouds.
6	29.48	748.8	38.0	3.3	35.5	1.9		n.			4		8					d. clouds.
7	29.72	754 9	43.0	6.1	39.6	4.2		ene.			0-1		10					overcast
8	29.34	745.2	38.1	3.4	36.1	2.3		e.			2		10					overcast.
9	29.26	743.2	42.6	5.9	41.3	5.2		nnw.			0-1		2					blue sky.
10	29.19	741.4	47.1	8.4	43.8	6.6		nnw.			0-1		6	nw.				d. clouds.
11	29.50	749.3	40.2	4.6	37.1	2.8		nnw.			2		0					blue sky.
12	29.22	742.2	40.0	4.4	36.0	2.2		ene.			1		4					blue sky.
13	29.18	741.2	42.3	5.7	38.0	3.3		ssw.			3		8	nw.				d. clouds.
14	29.10	739.1	43.3	6.3	40.5	4.7		e.			3		9					d. clouds.
15	29.04	737.6	47.9	8.8	43.0	6.1		e.			0-1		9					d. clouds.
16	29.18	741 2	47.2	8.4	41.0	5.0		ese.			3		9					d. clouds.
17	29.20	741.7	47.0	8.3	45.2	7.3		ssw.			2		6	nw.				d. clouds.
18	29.19	741.4	46.9	8.3	45.4	7.4		calm.			0		8					d. clouds.
19	29.30	744.2	45.0	7.2	46.8	4.9		nne.			1		7	wnw.				d. clouds.
20	29.39	746.5	43.9	6.6	40.0	4.4		ne.			0-1		10					overcast.
21	29.38	746.2	47.5	8.6	42.0	5.6		ese.			5		10					overcast.
22	29.18	741.2	52.8	11.6	46.9	8.3		sse.			7		9					d. clouds.
23	29.09	738.9	50.7	10.4	49.2	9.6		ese.			1		1	nnw				blue sky.
24	28.98	736.1	54.9	12.7	52.7	11.5		e.			2		9	w.				d. clouds.
25	28.98	736.1	55.6	13.1	54.0	12.2		e.			2		5	sw.				d. clouds.
26	29.00	736.6	59.0	15.0	56.3	13.5		ese.			0-1		4	nnw.				d. clouds.
27	29.21	741.9	52.9	11.6	50.0	10'0		ne.			2		10					overcast.
28	29.56	750.8	44.3	6.8	41.0	5.0		ene.			2		0					blue sky.
29	29.42	747.3	52.6	11.4	47.5	8.6		ese.			3		8					d. clouds.
30	29.18	741.2	51.0	10.6	49.0	9.4		nw.			0-1		3					blue sky.
Mean	29.22	742.2	45.8	7.7	42.9	6.1							6.0					
July 1	29.18	741.2	56.7	13.7	51.0	10.6		ene.			2		8					d. clouds.
2	29.32	744.7	58.3	14.6	49.3	9.6		sw.			3		1					blue sky.
3	29.16	740.7	60.0	15.6	57.0	13.9		nnw.			2		7					d. clouds.
4	29.19	741.4	49.2	9.6	45.7	7.6		wnw.			4-6		8					d. clouds.
5	29.43	747.5	52.2	11.2	46.2	7.9		se.			2		9					d. clouds.
6	29.48	748.8	52.1	11.7	48.9	9.4		sse.			2		5					d. clouds.
7	29.26	743.2	59.0	15.0	57.4	14.1		nnw.			c-1		3					blue sky.
8	29.24	742.7	59.0	15.0	54.3	12.4		nnw.			1		6	n.				d. clouds.
9	29.30	744.2	62.7	17.1	58.0	14.4		wnw.			0-1		9					d. clouds.
10	29.21	741.9	58.0	14.4	53.0	11.7		ese.			4		3					blue sky.
11	29.20	741.7	49.1	9.5	47.3	8.5		e.			5		10					raining.
12	29.09	738.9	49.0	9.4	45.1	7.3		ene.			2		4					d. clouds.
13	29.06	738.1	53.7	12.1	48.1	8.9		nne.			1		2					blue sky.
14	29.16	740.7	54.2	12.3	50.2	10.1		e.			2		6					d. clouds.
15	29.27	743.4	53.0	11.7	50.2	10.1		calm.			0		4	ene.				d. clouds.
16	29.35	745.5	53.5	11.9	50.0	10.0		wsw.			0-1		2					blue sky.
17	29.32	744.7	57.1	13.9	53.1	11.7		ese.			1		1					blue sky.
18	29.28	743.7	55.0	12.8	52.2	11.2		e.			0-1		0					misty.
19	29.17	740.9	58.0	14.4	53.4	11.9		ene.			1		7	nw.				d. clouds.
20	29.13	739.9	59.0	15.0	55.3	12.9		ene.			0-1		2					misty.
21	29.06	738.1	61.0	16.1	55.0	12.8		sse.			0-1		10					overcast.
22	29.00	736.6	58.4	14.7	53.5	11.9		s.			1		7					d. clouds.
23	28.96	735.6	57.9	14.4	52.9	11.6		sse.			2		9	sw.				d. clouds.
24	29.09	738.9	53.9	12.2	52.1	11.2		wnw.			2		9					raining.
25	29.24	742.7	54.7	12.6	53.0	11.7		n.			3		9					d. clouds.
26	29.55	750.6	51.0	10.6	48.0	8.9		n.			1		2					blue sky.
27	29.48	748.8	52.9	11.6	50.0	10.0		calm.			0		9	nw.				showery.
28	29.29	744.0	48.8	9.3	48.0	8.9		wnw.			1		9					foggy.
29	29.28	743.7	51.6	10.9	51.0	10.6		calm.			0		1					blue sky.
30	29.31	744.5	59.8	15.4	56.1	13.4		ese.			2		6					d. clouds.
31	29.42	747.3	61.7	16.5	56.8	13.8		ese.			3-5		9					misty.
Mean	29.24	742.7	55.5	13.1	51.7	10.9							5.7					
August 1	29.45	748.0	59.6	15.3	57.0	13.9		ese.			2		5					misty.
2	29.36	745.7	62.0	16.7	59.7	15.4		ese.			1		9					misty.
3	29.18	741.2	62.7	17.1	61.1	16.2		e.			2		10					showery.
4	29.17	740.9	56.3	13.5	54.4	12.4		wnw.			3		4					d. clouds.
5	29.35	745.5	52.0	11.1	50.6	10.3		nne.			0-1		8					d. clouds.
6	29.12	739.6	60.0	15.6	56.6	13.7		sse.			3		10					misty.
7	29.21	741.9	58.4	14.7	55.7	13.2		n.			4		9					d. clouds.
8	29.57	751.1	53.9	12.2	50.6	10.3		sse.			0-1		10					showery.
9	29.65	753.1	52.7	11.5	49.8	9.9		ssw.			0-1		8					d. clouds.
10	29.47	748.5	55.0	12.8	51.1	10.6		sse.			3		3	nw.				d. clouds.
11	29.32	744.7	59.0	15.0	56.8	17.8		ese.			4		9	nw.				misty.
12	29.16	740.7	60.0	15.6	58.0	14.4		ese.			3		9					misty.
13	28.98	736.1	61.2	16.2	58.8	14.9		se.			2		9					misty.
14	28.96	735.6	57.4	14.1	55.6	13.1		wnw.			2		9					d. clouds.
15	29.18	741.2	54.0	12.2	52.3	11.3		wnw.			3		9					d. clouds.
16	29.18	741.2	47.5	8.6	45.3	7.4		nne.			0-1		9					d. clouds.
17	29.04	737.6	52.0	11.1	49.8	9.9		n.			1		10					raining.
18	29.06	738.1	49.9	9.9	47.8	8.8		ssw.			1		2					blue sky.
19	28.79	731.3	53.5	11.9	50.9	10.5		sse.			2		8					d. clouds.
20	28.99	736.3	46.0	7.8	42.0	5.6		nnw.			4-6		9					d. clouds.
21	29.22	742.2	38.7	3.7	37.4	3.0		wnw.			0-1		1					blue sky.
22	29.15	740.4	46.6	8.1	43.5	6.4		ssw.			2		10					overcast.
23	29.20	741.7	45.1	7.3	44.8	6.9		nnw.			0-1		4					d. clouds.
24	29.36	745.7	43.0	6.1	42.0	5.6		nne.			0-1		6					d. clouds.
25	29.25	742.9	50.0	10.0	48.1	8.9		s.			2		7					d. clouds.
26	29.45	748.0	43.4	6.3	42.0	5.6		ne.			0-1		4					d. clouds.
27	29.52	749.8	47.2	8.4	45.1	7.3		ese.			0-1		8					d. clouds.
28	29.41	747.0	50.4	10.2	48.5	9.2		nnw.			0-1		1					blue sky.
29	29.44	747.8	41.2	5.1	38.9	3.8		ene.			1		1					blue sky.
30	29.25	742.9	45.0	7.2	41.8	5.4		ene.			2		9					d clouds.
31	29.31	744.5	41.3	5.2	40.0	4.4		ne.			1		2					blue sky.
Mean	29.25	742.9	51.8	11.0	49.6	9.8							6.8					

NOTE.—The above observations, taken at 7 a. m., Washington time, were received too late for publication in the DAILY BULLETIN, and are given here in full from the opening to close of station. For explanation, see page 20.

REVIEW.

INTERNATIONAL METEOROLOGY.

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

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

In May, 1883, the area of absolute barometric minima was indicated by the isobar for 29.6 (751.8), and occupied that part of British India lying between N. 20° and 35° and E. 70° and 90°; in this region the mean atmospheric pressure ranged from 29.5 (749.3) to 29.59 (751.6). In southern India the mean pressure ranged from 29.61 (752.1) to 29.74 (755.4). Two areas of low mean pressure, each indicated by the isobar for 29.8 (756.9), are shown on the chart. The first of these extends from the Norwegian coast north of N. 65°, southwestward to the Färöe and Shetland islands, the lowest mean reported being 29.78 (756.4); the second area occupies the region north of the Black sea, and comprises the Crimea and the provinces of South and Little Russia. Over the British Isles, the southern peninsulas, and central and western Europe, the mean atmospheric pressure ranges from 29.9 (759.4) to 30.0 (762.0); in Scandinavia, Austria and Russia, it varies from 29.8 (756.9) to 29.88 (758.9). In the North American continent the mean pressure is least over the country lying between W. 97° and 115°, from Dakota and Montana southwestward to the Gulf of California; within this region the means range from 29.8 (756.9) to 29.9 (759.4). In Mississippi, Alabama and Tennessee, and in the states bordering on the Atlantic south of the fortieth parallel, the mean pressure varied from 30.0 (762.0) to 30.05 (763.3). In the Canadian maritime provinces the mean pressure was not below 30.0 (762.0), and in the north Pacific coast region, it was from 30.0 (762.0) to 30.05 (763.2). In all other parts of the United States and Canada the mean pressure was below 30.0 (762.0). In Greenland and Iceland the mean pressure averaged 29.89 (759.2). In Japan and on the eastern coast of China, it ranged from 29.85 (758.2) to 29.90 (759.4).

The only area of barometric maxima shown on the chart is that of the north Atlantic ocean; this area is very extensive and occupies the Atlantic ocean south of N. 50°, and from W. 15° westward to the American coasts. The centre of this area, where the mean pressure is 30.3 (769.6), is situated between N. 30° and 35°, and W. 40° and 45°. From this region the mean pressure gradually decreases, but nowhere over the Atlantic ocean south of N. 50°, or west of W. 15°, does it fall below 30.0 (762.0).

Compared with the chart for the preceding month (April, 1883,), there has been a slight increase of pressure in the north Pacific coast region and in the extreme northwestern part of the United States, also in Florida and the Gulf States; in other parts of the United States there has been a slight decrease of pressure. In the maritime provinces there has been an increase of pressure, but in other parts of Canada the mean pressure is below that of the preceding month. Over the north Atlantic ocean there has been a general increase of pressure. In Europe there has been a slight increase in the southern peninsulas, but in other districts the mean pressure was less than that for April, the decrease being most marked in Denmark, Scandinavia, and Russia, where it averaged .2 inch. In Hindostan there has been a decrease of about .1 inch. In Siberia, eastern China, and Japan the pressure has decreased.

Compared with the corresponding month of previous years the mean atmospheric pressure in May, 1883, was slightly below the normal in the United States, east of the Mississippi river, except in Florida; it was also below the normal in the north Pacific coast region, Colorado, Kansas, and northern Texas. In other districts of the United States the pressure was in general slightly above the normal. In Canada it was generally below the normal, except in the maritime provinces where there was a slight excess. In Europe the mean atmospheric pressure was normal or slightly below.

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

Countries.	Mean pressure.			Mean temperature.		
	May mean of 6 (1877–'82) years.	May, 1883.	Departure.	May mean of 6 (1877–'82) years.	May, 1883.	Departure.
				°	°	°
Algeria	30.04	30.00	— 0.04	72.8	67.8	— 5.0
Austria	29.90	29.86	— 0.04	64.9	63.9	— 1.0
British Isles	30.01	29.96	— 0.05	55.7	52.6	— 3.1
Denmark	29.95	29.90	— 0.05	54.0	55.2	+ 1.2
France	29.97	29.96	— 0.01	62.7	64.9	+ 2.2
Germany	29.97	29.92	— 0.05	59.5	62.1	+ 2.6
India*	29.63	29.59	— 0.04	91.3	93.5	+ 2.2
Italy	29.94	29.94	normal	67.8	67.8	normal
Norway	29.89	29.81	— 0.08	51.3	51.5	+ 0.2
Portugal	30.01	29.97	— 0.04	67.6	63.7	— 3.9
Russia	29.90	29.85	— 0.05	62.0	62.6	+ 0.6
Spain	29.98	29.98	normal	68.5	64.1	— 4.4
Sweden	29.92	29.84	— 0.08	50.2	52.6	+ 2.4

* Mean for five years only.

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

Stations.	Mean pressure.			Mean temperature.		
	May mean of 6 (1877–'82) years.	May, 1883.	Departure.	May mean of 6 (1877–'82) years.	May, 1883.	Departure.
				°	°	°
Gibraltar	30.03	30.01	— 0.02	69.5	67.3	— 2.2
Malta, Mediterranean Sea	29.94	29.97	+ 0.03	69.5	67.4	— 2.1
Sandwick Manse, Orkney Islands	29.93	29.85	— 0.08	49.2	48.1	— 1.1
Bridgetown, Barbadoes	30.00	30.01	+ 0.01	83.1	83.2	+ 0.1
Cape Town, Cape Good Hope	30.07	.....	.....	65.6	.....	.....
Fort Napier, Natal, South Africa	29.94	29.87	— 0.07	71.3	74.7	+ 3.4
Freetown, Sierra Leone	29.91	29.88	— 0.03	86.4	83.6	— 2.8
Mauritius, Indian Ocean	30.06	30.06	normal	75.6	75.8	+ 0.2
Melbourne, New South Wales	30.04	30.00	— 0.04	53.8	51.5	— 2.3
Nassau, Bahamas	30.02	30.06	+ 0.04	77.3	78.9	+ 1.6
Godthaab, Greenland	29.86	29.89	+ 0.03	35.0	33.4	— 1.6
Stykkisholm, Iceland	29.89	29.89	normal	41.4	36.7	— 4.7
Thorshavn, Färöe Islands	29.91	29.79	— 0.12	46.4	46.4	normal
Zi-Ka-Wei, China	29.90	29.91	+ 0.01	63.0	62.2	— 0.8
Athens, Greece*	29.93	29.90	— 0.03	73.9	73.0	— 0.9
Cagliari, Sardinia, Italy	29.92	29.93	+ 0.01	69.5	68.7	— 0.8
Tokei, Japan	29.93	29.91	— 0.02	61.3	58.3	— 3.0
Angra, Azores*	30.16	30.12	— 0.04	62.5	60.8	— 1.7
Funchal, Madeira Islands	30.11	30.07	— 0.04	67.9	64.9	— 3.0
Ponta Delgado, Azores	30.16	30.11	— 0.05	65.1	62.2	— 2.9
Archangel, Russia	29.90	29.89	— 0.01	46.1	52.7	+ 6.6
Tiflis, Russia	29.87	29.87	normal	70.7	75.6	+ 4.9
Astrakhan, Russia	29.90	29.92	+ 0.02	72.3	76.8	+ 4.5
Ekaterinburg, Russia	29.87	29.92	+ 0.05	57.9	62.6	+ 4.7
Tashkend, Toorkistan, Asia	29.86	29.79	— 0.07	78.1	80.6	+ 2.5
Barnaul, Siberia, Asia	29.90	29.96	+ 0.06	58.1	52.9	— 5.2
Yeniseisk, Siberia, Asia*	29.93	29.98	+ 0.05	47.2	38.5	— 8.7
Pekin, China	29.83	29.81	— 0.02	68.4	67.5	— 0.9
Nikolaevsk on the Amoor, Asia	.....	.....	.....	36.4	37.0	+ 0.6
San Juan de Puerto Rico, W. I*	30.01	30.02	+ 0.01	79.9	80.1	+ 0.2
Beirut, Turkey in Asia	29.93	29.93	normal	75.6	74.5	— 1.1
Mexico, Mexico	.....	.....	.....	.....	.....	.....
Havana, Cuba, W. I	30.02	30.03	+ 0.01	78.4	75.9	— 2.5
Paramaribo, D. Guiana, S. A	30.05	30.02	— 0.03	80.4	78.4	— 2.0
York Factory, B. A	30.05	30.04	— 0.01	28.2	31.5	+ 3.3

* Means for five years only.

In the United States the mean temperature of the air was below the normal in all districts, the departures being greatest in the lake region and in the northwestern sections of the country. In Canada the temperature was below the normal, except in the maritime provinces where it was about normal. In Europe the mean temperature of the air was below the normal in the Iberian peninsula; in the other districts it was normal or slightly above. In British India the highest mean temperature reported was 105°.4 Fahr. (40°.8 Cent.), at Nagpur, and the lowest was 79°.3 Fahr. (26°.3 Cent.), at Sibsagar.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Petro-Alexandrovsk, Turkestan, Asia	86.0	30.0	York Factory, B. A	31.5	— 0.5
Cairo, Egypt	85.3	29.6	Jacobshavn, Greenland	32.9	0.5
Freetown, Africa	83.6	28.7	Godthaab, Greenland	33.4	0.8
Bridgetown, Barbadoes	83.2	28.4	Behring's Island (N. 55° 10′, E. 166° 30′)	33.7	0.9
Manila, Philippine Islands	82.4	28.0	Stykkisholm, Iceland	36.7	2.6

In the United States the winds were mostly from south through west to northwest; in Canada they were generally from southwest to northwest. Over the Atlantic ocean the winds were southerly and southeasterly, from the coasts of America eastward to about W. 45°; from that meridian eastward to the European coasts they were mostly northeasterly. In Europe the winds were mostly westerly, northwesterly and northerly; in the northern peninsulas they were southwesterly.

The rainfall during the month of May, 1883, was below the average in Florida, the Gulf states, the middle Atlantic states and in the extreme northwest, but in other districts it greatly exceeded the average, the excess being greatest in the lake region, California, and the Missouri valley; in these districts nearly double the average amount of rain fell during May, 1883. In Canada the rainfall was in excess of the average. In Europe it was normal or slightly below the normal.

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

The paths of thirty depressions have been traced for the month of December, 1881. The following concerns the general distribution of these disturbances: Ten are traced over the North American continent, of this number, five appear to have originated in the northwestern part of the continent, and have moved southeastward over the British Possessions to about the Lake Superior region, passing thence eastward over the northern part of the United States and Canada. One depression is traced from the north Pacific coast region eastward to the lake region and then northeastward to the mouth of the Saint Lawrence river; two depressions are shown in the lake region, one being a continuation of low area xv. of the November chart. Two depressions developed in the Gulf of Mexico and moved northeastward over the United States to the Atlantic. Twelve depressions are charted in the north Atlantic ocean, of this number, four are continuations of storms which passed over the United States and Canada; five developed in the region north of the sixtieth parallel; two appeared near N. 50°, and between the thirty-fifth and fortieth meridians, and one, number xxii., was first observed near N. 30°, W. 75°. Four depressions are shown in southern Europe; one is a continuation of number xxii., above referred to, and the others are traced over the Mediterranean and near the coast of Algeria. Three depressions appeared in the British Isles; one of them moved southeastward from Greenland and passed over northern Scotland; one, number xxiii., passed over England, the North Sea, northern Germany, and the Baltic, and disappeared in central Russia; and one developed in the neighborhood of the English channel and dissipated in the same region. One disturbance, number xii., is shown in the Ural region, and is a continuation of the depression charted as number xxvii. on the chart for last month. Two depressions appeared in northeastern Asia. A special feature of the month was the prevalence of barometric maxima over Europe, especially in the central and eastern parts of the continent.

The following descriptions refer to the depressions traced in North America:

I.—This was a continuation of low area xv., of the chart for November, 1881. At the close of that month the area of disturbance extended from Texas to the lake region; on December 1st it occupied the lower lake region, New England, and the provinces of Ontario and Quebec, the centre being near Rockliffe, Ontario, where the barometer read 29.61 (752.1), calm, heavy rain. During the day the disturbance moved towards the Gulf of Saint Lawrence, attended by rainy weather in the lower lake region and the Saint Lawrence valley, and by the 2d it had reached the Gulf, where it displayed increased energy, and was attended by moderate to strong gales, and stormy weather in the maritime provinces. It passed over Newfoundland into the Atlantic, and is hereafter described as low area xiii.

II.—This disturbance appeared on the northwestern boundary of the United States on the 5th; it moved eastward, and on the 6th the centre was over Lake Superior. The course then changed to the southeastward and the disturbance moved into Ontario, the pressure of the centre having now fallen below 29.4 (746.7); during the 7th and 8th it moved eastward over northern New England and the maritime provinces, its passage being marked by moderate to strong gales, accompanied by rain or snow. During the 8th the disturbance moved rapidly northeastward over Newfoundland and entered the Atlantic. This depression is hereafter referred to as low area xvi.

III.—This was a slight depression which approached the United States from the northwest territories and was shown in the upper lake region on the 8th; on the 9th it was in northern Ontario, whence it passed eastward over the Gulf of Saint Lawrence to Newfoundland, where it was apparently central on the 10th. This disturbance is hereafter described as low area xx.

IV.—This depression appeared in the north Pacific coast region on the 10th, on which date the barometer at Olympia, Washington Territory, read 29.55 (750.6), being a fall of .64 inch, or 16.2 mm. since the simultaneous observation of the 9th; light snows occurred in Washington Territory and Oregon, and light rains in California. By the 11th the disturbance had extended eastward to Dakota, but the pressure was still least in Washington Territory; by the 12th the region of least pressure occupied Minnesota and Manitoba, where the barometer ranged from 29.47 (748.5) to 29.57 (751.1). During the day the low area moved southward from Minnesota over Iowa and then eastward to Lake Michigan, where it was central on the 13th. The disturbance then moved northeastward over Ontario and Quebec, and on the 14th it was central near the mouth of the Saint Lawrence river, and by the 15th it had apparently filled up. This depression, during its progress over the lakes, was attended by very heavy rains and high winds in the region east of the ninetieth meridian and north of the thirty-fifth parallel.

V.—This disturbance apparently originated in Alaska. On the 13th the barometer at Sitka read 29.32 (744.7), being a fall of .45 inch, or 11.4 mm. during the preceding twenty-four hours. The low area retained its position until the 14th, when it apparently began to move southeastward, and by the 15th it had reached the northern boundary of the United States; it then passed eastward, with its centre to the north of the lake region, and apparently filled up in northern Quebec on the 18th; it displayed no storm energy during its transit.

VI.—This depression, like the preceding, developed in Alaska prior to the 18th; it remained in that region until the 20th, the barometer ranging from 28.93 (734.8) to 29.38 (746.2). On the 20th the disturbance disappeared beyond the limits of observation.

VII—Decreasing pressure and the circulation of the winds indicated the development of a depression near the Texas coast on the 19th, and by the 20th a disturbance, attended by heavy rain, had moved into Arkansas. It moved slowly northeastward, and on the 21st it was shown in Missouri, the pressure near the centre being about 29.95 (760.7), while heavy rains

occurred in all districts east of the Mississippi river. On the 22d the storm-centre was in Indiana, where the pressure had now fallen below 29.8 (756.9), and moderately high winds and rainy weather prevailed in the southern and eastern districts. Moving east-northeastward, with gradually decreasing pressure during the day, the disturbance reached the Atlantic coast on the 23d, on which date the centre was in Connecticut, where the pressure was 29.44 (747.8). As the storm-centre neared the coast line, vessels to the northward of Cape Hatteras and west of the sixty-fifth meridian, encountered heavy sw. gales, shifting to nne. This disturbance moved over the Atlantic in a northeasterly course, and is hereafter described as low area xxvii.

VIII.—By the morning of the 22d the barometer at Sitka, Alaska, had fallen to 28.93 (734.8); during the day it began to rise and on the following day it read 29.2 (741.7). The disturbance appears to have been rapidly transferred southeastward, and by the morning of the 24th the pressure, although increased to 29.65 (753.1), was least in Manitoba; on the 25th, the position of the centre of depression remained unchanged, but by the following day it had passed northeastward beyond the range of observations.

IX.—This disturbance developed in the Gulf of Mexico on the 25th; on that date, the schooner "Gersh Banker," reporting a hurricane in about N. 28°, W. 87°, in which she lost spars and sails. By the morning of the 26th the disturbance had reached Alabama, the pressure near the centre being about 29.85 (758.3); it moved northeastward accompanied by heavy rains and moderate gales along the coast, and on the 27th it was shown in West Virginia; during the day it passed into the Atlantic, causing strong sw. gales at sea. This depression is hereafter described as low area xxviii.

X.—This depression appeared in Alaska on the 25th, and remained in that region until the 27th, when it began to move southeastward, and by the 28th it had reached Manitoba, the pressure at the centre of disturbance falling below 29.4 (746.7) It moved southeastward to the lower lake region and thence along the Saint Lawrence valley, and at the close of the month it was central near Father Point, Quebec, where the barometer read 29.2 (741.7). This area, during its passage, caused rainy weather and high winds to moderate gales in the lake region, New England, and the Maritime Provinces.

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

XI.—From the 1st to the 6th, the atmospheric pressure over the region north of the sixtieth parallel and between W. 10° and 50°, ranged from 28.95 (735.3), to 29.4 (746.7), and caused during that period, a continuation of southwesterly to southerly winds and rainy weather over the British Isles and Scandinavian peninsula. By the 7th the disturbance had moved east-southeastward and was central near the Färöe Islands, the barometer at Thorshaven reading 28.67 (728.2), wind w. 18 miles an hour. As the barometric gradient became steeper over the British Isles, the winds increased in force, and moderate to strong sw. to w. gales and rainy weather prevailed over the northern and western portions of the United Kingdom, with moderate southerly gales in Denmark and Scandinavia. The disturbance passed northeastward, after being joined by a depression which had moved up from the Atlantic, and during the 8th and 9th it existed off the Norwegian coast as an extensive depression with no well-defined centre, but with several subsidiary disturbances within its area. By the 10th, it had passed northeastward and disappeared in the Arctic regions.

XII.—This depression appeared in the Ural region on the 1st, and was probably a continuation of low area xxvii. of the November chart. It moved southeastward during the 2d and 3d, and filled up in Central Asia on the last-mentioned date.

XIII.—This is a continuation of low area i. above described. After passing over Newfoundland the disturbance moved rapidly eastward and on the 3d was central near N. 51,° W. 37°; on reaching the ocean the disturbance appears to have increased in energy, causing some disasters to shipping. On the 2d, the schooner "Water Lily" encountered the gale when sixty-three miles from Saint Pierre, Newfoundland, and was abandoned, after losing rudder, spars, &c. The s. s. "Bath City," which had suffered greatly during the November gales, was also abandoned, in N. 46° 20′, W. 45° 00′, on the 3d. On the 3d, the s. s. "Gellert,' W. Kuhlewein, commanding, reported, in N. 50° 18′, W. 33° 53′, barometer 29.3 (744.2), wind w. by s., force 9–10; the s. s. "Amsterdam," T. M. Lucas, commanding, in N. 49° 08′, W. 28° 21′, had barometer 29.51 (749.5), wind shifting from n. to s., squally weather, with hail and rain. Captain Beynon, commanding the s. s. "Vaderland," reported as follows: "2d, in N. 46° 24′, W. 42° 17′, at 3.15 a. m., Greenwich time, wind northerly, light, weather cloudy, very long swell from n. by e.; 2.36 p. m., hazy weather, with drizzling rain, strong breeze with hard squalls, 6.30 p. m., same weather, wind blowing a gale from ssw., confused sea. On the 3d, in N. 48° 15′, 35° 33′, strong wsw. gale, heavy hail squalls, very high sea; 2.8 p. m. (N. 48° 42′, W. 32° 12′), gale at its height, frequent hail squalls; 8 p. m., weather moderating." Vessels to the eastward of W. 35°, encountered strong sw. gales, with furious seas, and those to the westward of that meridian had equally strong nw. gales. On the 4th, the disturbance moved northeastward without any diminution of energy, and during the day it probably united with a large and deep depression (number xi.) which occupied the ocean north of 55°.

XIV.—This was a slight disturbance which formed over the western part of the Mediterranean and southern Spain on the 4th, moved eastward over Algeria during the 5th, and on the 6th was central off the eastern coast of Tunis. H. M. S. "Beacon," in N. 35° 19′, E. 12° 53′, reported barometer 30.06 (763.5), wind e., force 4, and the bark "Peppina," in N. 36° 19′, E. 14° 19′, barometer 30.11 (764.8), wind se., force 4. By the 7th the pressure had decreased to 29.7 (754.4), and the disturbance was central near Malta; on board the above-mentioned vessels the barometer read 29.72 (754.9) and 29.79 (756.7), respectively, with ene. wind of force 6 at the former, and se. wind of force 7 at the latter, with heavy rain; at Malta the barometer read 29.73 (755.1), wind s., force 3. During the 7th, 8th, and 9th, the disturbance moved slowly eastward, causing stormy, unsettled weather over the eastern part of the Mediterranean, and finally disappeared on the last-mentioned date.

XV.—This disturbance appeared immediately after the passage of low area xiii., and was probably a secondary development of that depression. On the 5th the s. s. "Switzerland," in N. 48° 48′, W. 31° 04′, reported, 4 p. m., barometer 28.79 (731.3), vessel struck by a hurricane from e. to se., sw. and n., with rain and blinding spray; this lasted two hours and then settled into a heavy nw., gale; in N. 47° 17′, W. 32° 52′, the s. s. "Canada," had a heavy sw. gale; Captain Bonjer, commanding the s. s. "Maas," reported as follows: "5th, 4 p. m., barometer 29.4 (746.7), wind shifting from sw. to s., e. and n.; barometer falling rapidly to 28.37 (720.6); at 7.50 p. m. a dead calm set in which lasted about ten minutes, when suddenly the wind came out from nnw. with hurricane force, causing a very high sea; at 10 p. m. the wind began to decrease, but it continued to blow a heavy gale until 7 a. m. of the 6th. The ship's position during the gale was N. 50° 28′, W. 29° 20′." The disturbance moved northeastward, and on the 6th it was central off the western coast of Ireland, causing moderate s. gales and rainy weather over that country. During the day the depression probably moved north-northeastward and merged in low area xi., then central near the Färöe islands.

XVI.—This is a continuation of low area ii. of this chart. As the disturbance moved over Newfoundland during the 8th it was attended by moderate to strong gales on the coasts of New England and the maritime provinces. At Saint Johns, Newfoundland, several vessels dragged anchor and sustained damage. On the 9th the disturbance was central near N. 53°, W. 37°; moderate southerly gales were reported to the eastward of W. 35°, while strong w. and nw. gales prevailed to

the south and westward; on the 10th the disturbance moved slowly eastward, and by the 11th it was shown off the southwestern coast of Ireland, the pressure near the centre of disturbance being about 29.75 (755.6). During the day this disturbance probably became merged in a large area of relatively low pressures which extended from England southeastward over central Europe to the Mediterranean, and which contained several distinct storm-centres.

XVII.—This was a secondary disturbance which appeared in southern England on the 9th; during the 10th, 11th and 12th it occupied the English channel and the North Sea, the pressure in its central region ranging from 29.5 (749.3) to 29.7 (754.4). It caused unsettled, rainy weather over the British Isles during its passage, and finally filled up on the 12th.

XVIII.—This disturbance occupied the southern part of the Iberian peninsula on the 9th, and had probably moved in from the ocean. Referring to the unsettled weather which prevailed near the western coasts of Spain and Portugal, Captain Fry, commanding the bark "Pawashick," near N. 41° 37′, W. 11° 27′ on the 9th, reports as follows: "9th, 10 p. m., very sudden and violent storm lasting four hours, wind sse. to se. by e. force 8–9 for two hours, with much rain, barometer 29.51 (749.5). The barometer had fallen one tenth of an inch per hour for five hours and had been very unsteady for three days, oscillating .3 to .4 inch per day." During the 9th the disturbance moved over southern Spain and entered the Mediterranean, and on the 10th it was central near the Balearic Isles, its central region being inclosed by the isobar for 29.7 (754.4). By the 11th it had moved northeastward to Sardinia, its passage being marked by moderate gales and stormy weather in Algeria and over the Mediterranean. On the 12th the disturbance was central in Italy where it apparently dissipated during the day.

XIX.—From the 10th to 13th, the atmospheric pressure over southern Greenland ranged from 28.93 (734.8), to 29.19 (741.4). By the 14th the region of least pressure was shown over Iceland where the barometer read 28.91 (734.3), wind sw. force 6. snowing. During the 13th an area of high pressure occupied the British Isles and the greater part of Europe, its centre being over the Gulfs of Bothnia and Finland; as the depression moved southeastward, the barometric gradient became steeper and high winds to moderate gales prevailed in Scandinavia and in Scotland. During the 15th and 16th the disturbance moved slowly southeastward, causing a general decrease of of pressure, with rainy, unsettled weather in the regions to the eastward and southeastward. During the 16th a great decrease of pressure occurred and by the morning of the 17th, the isobar for 28.8 (731.5) included Scotland and stretched northwestward to Iceland; at the centre of disturbance, which was near the Hebrides, the barometer read 28.58 (725.9). Strong westerly breezes to moderate gales prevailed over Ireland, the Channel and the bay of Biscay, while southerly winds were reported at stations on the shores of the North Sea. On the 18th the disturbance moved northeastward to the western coast of Norway, the pressure at the centre having fallen to 28.4 (721.3). Exceedingly steep gradients now existed over the British Isles, northern and central Europe, so that the winds increased to the force of a strong gale in nearly all districts north of the fiftieth parallel and west of 20° east longitude. The depression passed northeastward with slight change in pressure and on the 19th it was central off the Norwegian coast, north of N. 65°. The winds retained their force over the Baltic and the northern part of the North Sea, but moderated somewhat in the other districts, while the rainy weather continued over northwestern Europe. On the 20th this disturbance passed northeastward and disappeared in the Arctic regions.

XX.—This is a continuation of the disturbance traced as low area iii. on the chart. After passing over Newfoundland on the 10th, it was probably joined by a disturbance which had moved over the Atlantic from the vicinity of Bermuda. During the passage of this last, strong ne. gales prevailed off the coast of the United States. Captain G. D. Spicer, commanding the ship "E. J. Spicer," reported on the 10th, near N. 39° 40′, W. 58° 40′, as follows: "7.30 p. m., a very heavy gale from s. veering to ssw., sw., w., and nw., in eight hours time; part of this time the wind blew with hurricane force, attended by heavy rain, lightning, and very high sea." Low area xx., after uniting with the disturbance just referred to, became central on the 11th, near N. 50°, W. 42°, and during the day it apparently moved northeastward and merged in low area xix., which then occupied the region north of the sixtieth parallel.

XXI.—This disturbance developed in Algeria on the 13th; it moved eastward and by the 14th the region of low barometer occupied Tunis; the storm-centre then moved northeastward with decreasing pressure, and passed over Sicily and the southern part of the Italian peninsula on the 15th and 16th, disappearing over the Adriatic on the latter date.

XXII.—The data relating to the development and earlier movement of this disturbance are very meagre; the reports, however, are sufficient to indicate the presence of an atmospheric disturbance over the region as charted. On the 15th the pressure over the eastern part of the United States varied from 30.2 (767.1) to 30.5 (774.7), except on the south Atlantic coast and in Florida, where it was below 30.1 (764.5). The area of high barometer extended east-southeastward from the Virginia coast to Bermuda, where the barometer read 30.2 (767.1), but from Hatteras southward the pressure was about 30.05 (763.3), with high winds and rainy weather; it also decreased to the southeastward of the Bermudas. No barometrical observations have been received by which the disturbance can be definitely located; the following reports, however, from the logs of vessels serve to indicate its presence on the 15th: The s. s. "New York," off Cape Carnaveral, had a violent nne. gale lasting thirty-six hours; brig "Scotia," in N. 32°, W. 73°, heavy n. by e. gale, which lasted forty-eight hours; the s. s. "Edith Godden," about one hundred and forty miles southeast of Hatteras, had a severe n. by e. gale, with blinding snow storm; in N. 36° 00′, W. 74° 30′, the brig "O. B. Stillman" had a heavy ene. gale lasting forty-eight hours; split sails and started water tanks; off Hatteras the brig "Thetis," reported a heavy ne. gale, in which she had sails split; the brig "Tula," fifty miles north of Hatteras had a hurricane from ene., lasting eighteen hours; vessel lost deckload and several sails; off Cape Lookout the s. s. "Delaware," encountered a heavy nne. gale increasing to hurricane, during which the ship was hove to for fifteen hours; the ship "David Crockett," fifty miles sse. of Cape Hatteras, had a violent ssw. gale shifting suddenly to nne. By the morning of the 16th the pressure at Bermuda had decreased from 30.20 (767.1) to 29.87 (758.7); over the United States and eastward to the sixty-eighth meridian the pressure was above 30.20 (767.1), and from the Azores westward to the fiftieth meridian it was also above 30.20 (767.1), while a trough of low pressures existed over the ocean between those limits. Strong n. and nne. gales occurred along the coast of the United States, and moderate to strong s. winds prevailed near W. 50°.

On the 17th the isobar for 30.0 (762.0) enclosed an extensive region between N. 25° and 35° and W. 65° and 48°; within this region the lowest reported pressure was 29.78 (756.4); at Bermuda the barometer had risen to 29.97 (761.2), wind nnw.; near N. 30°, W. 55°, it was easterly, and on the twenty-fifth parallel it was westerly. During the 18th and 19th, the disturbance appears to have moved slowly northeastward, the high area which existed to the eastward being gradually forced southeastward; on the 20th the depression was well defined by the reports as central near N. 45°, W. 45°, where the pressure was 29.8 (756.9); a moderately steep gradient existed west of the fiftieth meridian, so that moderate to strong n. and nw. gales prevailed over that region; north of the storm-centre moderate e. gales were reported, and to the eastward between W. 35° and 25°, moderate s. winds were reported; east of W. 25°, however, moderate to strong w. and nw. gales prevailed, that region being under the influence of low area xxiii. On the 21st the disturbance was probably near N. 50° and between W. 20° and 25°, but its position was not well-defined; on the

22d the storm-centre, having moved slightly south of east, reached Brittany where the pressure was 29.55 (750.6). By the 23d a great change had taken place in the distribution of pressure; over the British Isles, western Europe, and the Bay of Biscay, it had increased to 30.4 (772.1), and the area of low barometer was forced to the southeastward and passed rapidly over France to the Mediterranean, its centre on the 23d being near the western coast of Italy. During the 24th and 25th the disturbance lingered over southern Italy and Greece, and finally disappeared on the last-mentioned date. On that date the pressure at the centre of the high area above referred to, increased to 30.7 (779.8), and the region of high pressures included the whole of Europe, except Scandinavia and northwestern Russia.

XXIII.—After the passage of low area xix., on the 17th and 18th, the pressure over the British Isles increased to 29.5 (749.3), but a sudden decrease occurred and by the 20th a deep depression, indicated by the isobar for 28.8 (731.5) occupied the British Isles. Furious westerly gales prevailed over the Atlantic from W. 20° eastward to the English Channel; in the southern parts of England the winds were sw. and nw., and blew with the force of a strong gale; at stations on the French coast the westerly and southwesterly winds attained the force of a strong gale. Much damage was done to shipping near the coasts and to property on shore, the gale being especially severe in the Channel islands. The centre of disturbance moved rapidly eastward, and by the 21st it was shown in northern Germany, the pressure at the centre having increased to 29.1 (739.1); the winds to the westward of the centre decreased somewhat in force, but in many places they continued to blow with the force of a moderate gale; moderate winds prevailed to the northward of the storm-centre, where the gradient was slight. The depression continued its easterly movement and passed into Russia, and on the 22d it occupied the government of Moscow, the pressure having increased to 29.55 (750.6). On the 23d the disturbance moved northeastward and filled up during the day; this depression was attended by heavy rains during its passage over western Europe, and by snow in Russia.

XXIV.—This depression appeared to the northward of Scotland on the 21st, the lowest reported pressure being 29.19 (741.4), wind nw., at Thorshavn, Färöe islands. On the 22d it moved northeastward along the Norwegian coast, attended by generally higher temperature and light snow, and on the 23d it disappeared to the northward of Scandinavia, causing moderate w. gales at the northern stations.

XXV.—The pressure over southern Greenland decreased about .5 inch from the 20th to 21st; the barometer on the latter date, reading about 29.08 (738.6) The disturbance appears to have moved south-southeastward, the region of least pressure being shown near N. 53°, W. 38° on the 23d; moderate to strong northwesterly gales prevailed over the region between N. 40° and 50° and west of W. 40°, while moderate to strong southerly and southwesterly gales were reported from N. 45° to 55°, and between W. 35° and 25°. As the depression moved eastward the barometric gradient in its front became much steeper, and the southerly winds attained the force of a whole gale; the s. s. "Prussian," J. G. Stevens commanding, reported in N. 54° 50′, W. 16° 45′, barometer 29.64 (751.8), wind s., force 9, raining; at Monach lighthouse, Hebrides, the barometer read 30.18 (766.6), wind ssw., force 7. To the westward the winds were w. and nw., ranging from force 4 to 7. The eastward movement of the depression was barred by the area of barometric maxima which existed over Europe, and this depression probably moved northward and united with low area xxvi.

XXVI.—This disturbance appeared in southern Greenland on the 23d, on which date the barometer at Godthaab read 28.71 (729.2); on the 24th the centre was near Iceland, the barometer at Stykkisholm having fallen to 28.29 (718.6), wind s., force 8, raining. The disturbance passed east-northeastward over Iceland during the 25th, and on the 26th it was central off the extreme northwestern coast of Norway; on the 27th the centre was near Finmark, barometer at Gjæsvaer 28.47 (723.1), wind w., force 4. By the 28th the storm-centre had passed to the northeastward of Archangel, Russia, and during the 29th and 30th it moved into northern Siberia, the pressure having increased to 29.5 (749.3).

XXVI.—This is a continuation of the disturbance described as low area vii. The depression passed off the New England coast as a somewhat severe storm on the 23d, and by the 24th the centre was in N. 45°, W. 55°, with the pressure below 29.2 (741.7), while strong gales prevailed in all quadrants of the depression. The s. s. "Rhodora," in N. 43° 10′, W. 57° 6′, reported a strong sw. gale after which the wind came from nne. with great violence, causing a very high cross sea in which the ship rolled heavily and shifted cargo; the s. s. "City of Paris," in N. 43° 40′, W. 57° 4′, had strong gales from sw. to wsw. and ne. with very heavy rain and snow. The bark "New York," in N. 38° 7′, W. 65° 55′, had barometer 29.5 (749.3), wind nw. force 10°. The disturbance moved northeastward and on the 25th it was central near N. 49°, W. 42°, the lowest reported pressure being 29.44 (746.8); fierce southwesterly gales continued over the region from W. 40° to 30°, and n. and nw. winds of moderate force were reported from the region west of W. 45°. During the 26th, 27th, and 28th, the disturbance moved slowly northeastward and on the 29th it was central south of Iceland, the pressure at Stykkisholm being 28.93 (738.8), wind e. force 8, snowing. During the 30th and 31st, it moved slowly northeastward to the Norwegian coast, causing cloudy, rainy weather, and sw. winds at the northern stations in the British Isles.

XXVIII.—This is a continuation of low area ix. described above. After passing into the Atlantic it moved northeastward, and on the 28th, was central south of Nova Scotia. It continued its northeasterly movement over the Atlantic during the 29th and 30th, but does not appear to have exhibited much storm-energy, as the barometric gradient had become greatly reduced after the 29th. On the 31st this disturbance was off the southwest coast of the British Isles.

The following refers to the two depressions traced in eastern Asia:

XXIX.—This disturbance appeared over the sea of Okhotsk on the 4th. At Nikolaevsk on the Amoor the pressure ranged from 29.73 (755.1) to 29.30 (744.2), the wind remaining westerly and moderate in force. By the 8th the disturbance had passed beyond the limit of observation.

XXX.—This appeared in the same region as the preceding depression, and remained from the 26th to the 29th, during which time the barometer at Nikolaevsk ranged from 29.3 (744.2), to 29.79 (756.7). At the close of the month the disturbance had disappeared from the chart.

The following information respecting the twentieth and last typhoon of the season of 1881, is taken from "The typhoons of the China seas," published by the Rev. Marc Dechevrens, S. J., director of the Observatory at Zi-Ka-Wei, China.

The details of this typhoon are too indefinite to admit of a tracing of its path, it however passed over the Philippine Archipelago in a course very nearly the same as that pursued by the "Elgin" typhoon, the first of the season. On the morning of December 10th, the weather at Albay, a harbor of southeastern Luzon, (N. 13° 13′, E. 123° 40′), became threatening, wind nnw. and nw. with rain, barometer falling to 29.8 (756.9). This continued during the night of 10–11th, and at 8 a. m. the wind was blowing violently from wnw. barometer 29.82 (757.4), 10 a. m., violent w. wind, heavy rain, barometer 29.69 (754.1); noon, hard squalls from w. and sw. barometer 29.61 (752.1), rain continuing. No change occurred until 2. p. m., when the wind shifted to s, without abating, barometer 29.53 (750.0); 5 p. m. barometer at its minimum reading, 29.45 (748.0); 6 p. m., rising again; 7 p. m., wind and rain abating rapidly; 9 p. m., fresh s. wind, sky clearing, barometer rising. 12th, at daybreak fine weather; 10 a. m., barometer 29.92 (760.0). During the storm the s. s. "Francisco" dragged her anchors and drove ashore but did not sustain serious

damage; at Marinac a ship was reported wrecked; at Sorgoson two lorchas engaged in unloading the steamer "Gravina," foundered with part of the cargo valued at $10,000. The centre of the typhoon appears to have passed from se. to nw., skirting the eastern coast of the Archipelago between N. 10° and 14°; at Albay the winds were strongly convergent (nnw., nw.), whilst the centre was approaching. On the 11th the centre lay to the eastward of Albay; at noon the violence of the w. and sw. winds, accompanied by heavy rains, showed that the centre had turned to the left and was about to cross the island, as several of the preceding typhoons had done, but more to the southward near Albay. There are no observations to indicate the course of this typhoon over the China sea.

GENERAL REMARKS.

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

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

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

BOUNDARIES OF DISTRICTS.

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

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

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

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

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

INTERNATIONAL CHARTS ACCOMPANYING DAILY BULLETIN AND MONTHLY SUMMARY

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

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

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

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

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

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

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

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

AUSTRALIAN SERIES (furnished by co-operation of R. L. J. Ellery, Director of the Observatory at Melbourne, N. S. W.).—At Melbourne the conversions are published as given in the originals. The movement of the air is indicated by velocity in miles per hour. Adelaide, furnished by co-operation of Charles Todd, C. M. G., F. R. A. S. The observations are taken at 9 p. m., local time.

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

BRITISH SERIES (furnished by co-operation of the Meteorological Council, London, Robert H. Scott, Esq., F. R. S., Secretary, and respective observers).—In general the originals do not give rainfall or distinction between upper and lower clouds. Relative humidity, except for Bradford and Silloth Rectory, is not given on the originals, but is computed from hygrometrical observations. At Cardington, Oxford, and Sandwick Manse the barometers are given as read off. At Greenwich the movement of the air is indicated by pounds pressure per square foot. At the following stations rainfall is measured at local time: Bradford, 9 a. m., and Aberdeen, 10 a. m. The wind-direction is given to 32 points and weather by the Beaufort notation. At Bradford, no observations are taken on Sunday, except the rainfall, and in the monthly summary the letter designating a certain number of days missing applies to all the data except rainfall.

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

CAPE COLONY SERIES (furnished by co-operation of the Meteorological Commission of Cape Colony, Cape Town, and respective observers).—At Cape Saint Francis Lighthouse, the original gives barometer reduced to freezing, but not to sea-level. The kind of clouds is given, but no distinction is made between upper and lower. Weather in general terms.

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

DANISH SERIES (furnished by co-operation of Captain N. Hoffmeyer, Director of the Royal Danish Meteorological Institute at Copenhagen).—The

originals give the barometer in millimeters reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6. The weather is occasionally given by the Vienna symbols, but it is not certain that they always refer to the moment of simultaneous observations, except at Copenhagen. No distinction is made between upper and lower clouds, and the direction of movement, together with the rainfall, is entirely omitted. At Jacobshavn the observations are taken at 8 a. m. instead of 8.44.

EGYPTIAN SERIES (Furnished by the co-operation of Albert Ismalun, Director of the Laboratoire Khédivial du Caire).—Original gives barometer reduced to zero, but not to sea-level, temperature in Centigrade. The velocity is the mean for past 24 hours. Rainfall in millimetres.

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

GERMAN SERIES (furnished by co-operation of Prof. Dr. G. Neumeyer, Director of the German Marine Observatory at Hamburg).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The kind of clouds is occasionally given, but no distinction is made between upper and lower; the amount is given on a scale of 0 to 10, but the kind is rarely given. The weather is given in Vienna symbols or in general terms. The elevation of barometer cistern at Friedrichshafen, changes from 413 to 408 metres.

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

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

ITALIAN SERIES (by authority of the Minister of Agriculture, Industry, and Commerce—furnished by co-operation of Professor P. Tacchini, Director of the Central Meteorological Office at Rome, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by velocity in kilometres per hour, or by force on a scale of 0 to 4, as at Mondovi, Florence, and Cagliari. No distinction is made between upper and lower clouds, and the amount is given on a scale of 0 to 10. When snow has fallen at Stelvio and Valdobbia, it is not certain whether the amount given refers to melted or unmelted.

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

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

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

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

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

PORTUGUESE SERIES (furnished by co-operation of J. C. de Brito Capello, Director of the Meteorological Observatory of the Infante Dom Luiz at Lisbon).—In the originals the barometer is given in millimetres and the temperature in Centigrade. The movement of the air is indicated by velocity in kilometres per hour. The weather is occasionally given by the Vienna symbols. The rainfall is measured at noon each day. On May 1st, elevation of barometer cistern at Lisbon changes from 102 to 95 metres.

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

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

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

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

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

TURKISH SERIES (furnished by co-operation of A. Coumbary, Effendi, Director of the Central Observatory at Constantinople, and of F. Nimr, B. A., Director of the Lee Observatory at Beirut).—The originals give the barometer in millimetres reduced to sea-level. The temperature is given in Centigrade. The movement of the air is indicated by force on a scale of 0 to 7 for Valona, and on a scale of 0 to 12 for Beirut. At Constantinople the velocity is given in meters per second. The kind of clouds is not given, but the amount is indicated on a scale of 0 to 10, except at Valona, at which station it is inferred from the general weather terms. At Samakov, the barometer is reduced to freezing, but not to sea-level; temperature in Fahrenheit. The kind of clouds is given, also the distinction between upper and lower.

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

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

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

PORTUGUESE NAVAL SERIES (furnished by co-operation of J. C. de Brito

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

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

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

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

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

NOTES (FORT RAE, B. A.).

Furnished by the co-operation of Captain H. P. Dawson, R. A., chief of the British expedition on behalf of the International Polar Commission.

All barometric observations have been corrected for temperature and instrumental error, but have not been reduced to sea-level as the elevation is uncertain.

The spirit thermometer has a correction at 32° Fah., of —0°.3, and at —38° of —3°.9. The mercurial thermometer at 52°, Fah., has a correction of —0°.9. These corrections have not been applied, as it is not stated whether they apply to the dry or wet-bulb thermometer.

The following remarks apply to the corresponding numbers in the weather column of tabulated data:

1, 3 a. m., faint aurora, ese., wnw.; 2, 2.45 a. m., faint patch of auroral light in e.; 3, 3.9 a. m., auroral band, w. to e.; 4, 2.10 a. m., faint patch aurora in zenith, nw., se.; 5, 3 a. m., faint patch of aurora, se.; 6, patch of aurora, w., e.; 7, 3 a. m., auroral arch from e. to nw.; December, 1882, spirit thermometers used on 14th, 15th, and 16th; 8, spirit thermometers used from 2d to 24th, inclusive; 9, terrestrial radiation, 3 a. m., —45°.2, 5 a. m., —40°.0; 10, terrestrial radiation, —40°.0; 11, spirit thermometers used from 1st to 4th, inclusive. During the month of February, 1883, the terrestrial radiation was as follows:

On 1st, —46°.8 Fah.; 12th, —29°7; 13th, —50°.1; 14th, —46.5; 15th, —52°.5; 16th, —47°.0; 19th, —21°.0; 20th, —2°.4 (at 3 a. m.); 21st, —11°.0; 22d, —18°,0; 24th, —44°.5.

ERRATA.

MONTHLY SUMMARY, April, 1883, page 7, United States Sub., Santiago de Cuba, in place of latitude, longitude, and elevation as given, read N. 19° 55′, W. 75° 50′, 7.04 a. m., 21 feet, 6 metres.

DAILY BULLETIN, May 3, 1883, page 4, United States, Block Island, R. I., reduced barometer 30.66 inches, should read 30.16; page 6, U. S. Navy yard, Pensacola, Fla., velocity 2 miles, .9 metres, should read 21 miles, 9.4 metres.

4th, Page 1, Austro-Hungarian, Trieste, temperature, 17°.5 Cent., should read 17°2; Canadian, Quebec, actual barometer 729.2 mm., should read 759.2.

7th, Page 2, Danish, Godthaab, actual barometer 761.8 mm., should read 771.8.

11th, Page 1, Canadian, Granton, reduced barometer, 29.12 inches, 739.6 mm., should read 30.12, 765.0.

18th, Page 5, United States, Thomas Camp, Arizona, actual barometer 17.18 inches, should read 27.18.

21st, Page 5, United States, Kitty Hawk, N. C., reduced barometer, 751.5 mm., should read 751.1.

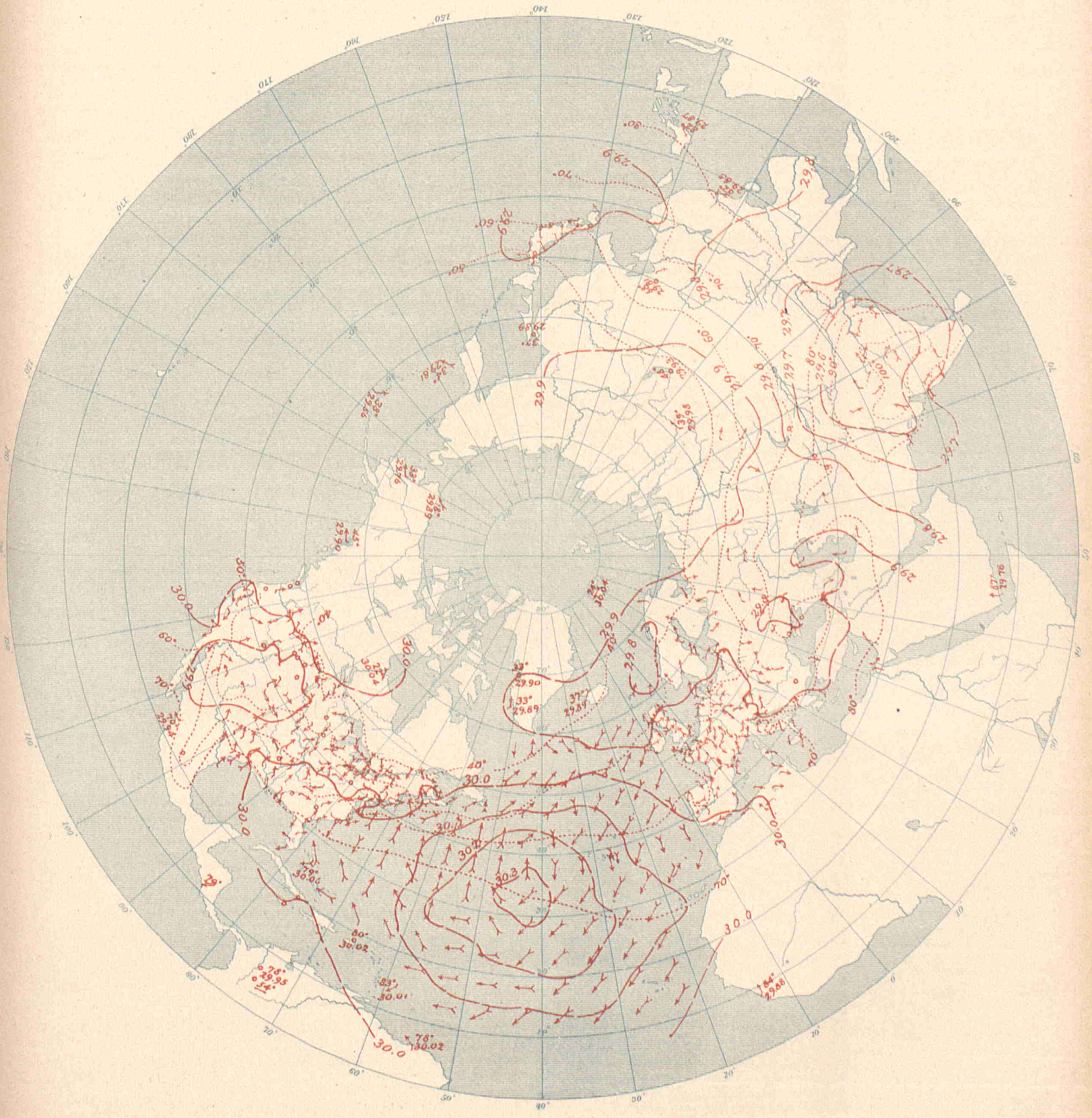
23d, Page 4, United States, Huron, Dakota, reduced barometer 28.76 inches, should read 29.76.

30th, Page 8, District No. 3, H. M. S. "Flying Fish," latitude N. 37° 00′, should read N. 37° 09′.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

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

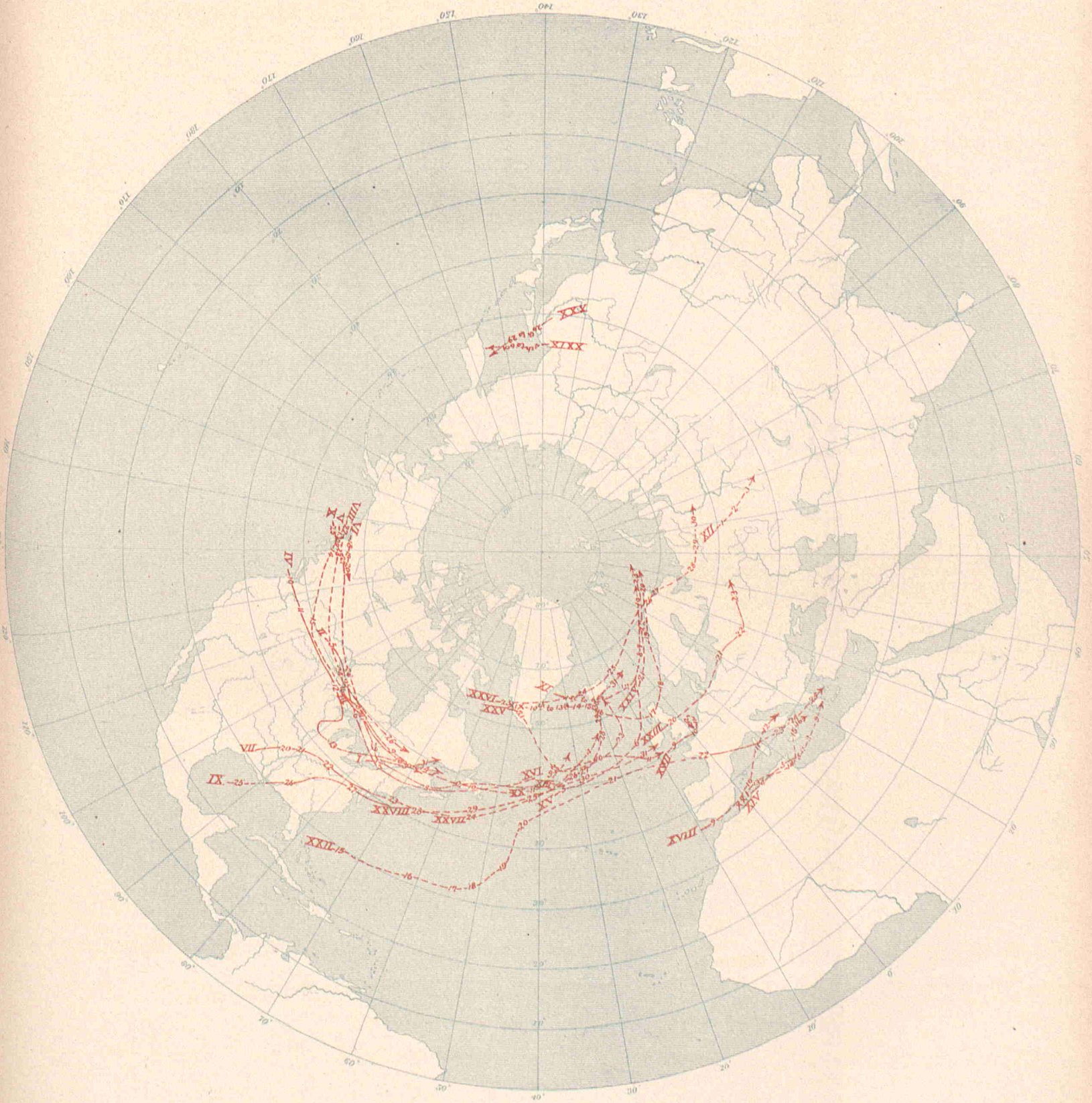


UNITED STATES OF AMERICA.

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

Signal Office Lith.

International Chart III. December, 1881. Storm-Tracks.



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Signal Office Lith.

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

BULLETIN

OF

INTERNATIONAL METEOROLOGY

FOR THE MONTH OF JUNE, 1883.

PRINTED FOR EXCHANGE WITH CO-OPERATING OBSERVERS.

WASHINGTON, D. C.:
JULY, 1884.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 1, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ALGERIAN.																			
Nemours			30.03	762.8	72.0	22.2	83	e.			1		2			0	0	fair	Malaterre.
Algiers			30.07	763.8	73.8	23.2	67	nne.			2		0			0	0	clear	Thève.
La Calle			30.07	763.7															Fonfrède.
Tunis			30.07	763.8															Jacques.
Saida			30.09	764.3															Pérès.
Tebessa			30.13	765.2	80.6	27.0	26	nw.			1		3			0	0	pretty fair	St. Martin.
Geriville					82.4	28.0	19	sw.			3		4			0.079	2.0	cloudy	Forfert.
Laghouat			30.09	764.2	86.0	30.0	24	s.			4		3			inap.	inap.	pretty fair	Abraham.
Biskra			30.08	764.1	89.6	32.0	33	e.			1		0			0	0	clear	Gonzon.
AUSTRALIAN.																			
Adelaide, South Australia			29.96	761.0	54.9	12.7	76	nne.	14	6.3			10 kn			0.024	0.6	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.85	758.2	29.94	760.5	46.5	8.1	86	n.	9	4.0			3			0.09	2.3	fair	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.36	745.8	29.89	759.2	71.6	22.0	58	e.			2		9			0.953	24.2	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.25	743.0	29.95	760.8	73.4	23.0	52	e.	10.5	4.7			7			0	0		Dr. Wierzbiski
Eperies	29.05	737.9	29.89	759.1	77.0	25.0	40	n.			3	cs	8 s		s.	0	0	raining	Julius Mikolik.
Gratz	28.71	729.3	29.92	760.0	69.6	20.9	78	ne.			3		7			0.126	3.2		Andreas Rospini.
Hermannstadt	28.50	723.8	29.88	758.9	67.3	19.6	83	e.			2		10			0.020	0.5	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.61	726.6	29.90	759.4	70.5	21.4	74	ne.			1		5			0	0	clearing	The Staff.
Lemberg	28.98	736.2	29.93	760.3	71.4	21.9	39	ne.			2		2			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.79	756.6	29.90	759.4	72.7	22.6	66	nw.			2		6			0	0		I. R. Hydrographic Office.
Szathmar	29.39	746.4	29.83	757.7	79.2	26.2	37	e.			3		4			0.008	0.2		Joseph Midlinszky, S. J.
Szegedin	29.59	751.6	29.86	758.4	73.0	22.8	66	w.			1		6			0	0		Karl Stancel.
Trieste	29.79	756.6	29.89	759.1	77.0	25.0	54	sw.			1		9			0	0		Royal Academy.
Vienna	29.25	743.0	29.94	760.5	73.4	23.0	64	calm			0		4			0	0		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.82	757.4	29.91	759.7	54.9	12.7	71	s.	23	10.3			6			0.005	0.1	d. clouds	W. Boswell.
Armagh, Observatory	29.63	752.6	29.87	758.7	54.9	12.7	90	s.	12	5.4			10					showery	S. Call.
Bidston, Liverpool Obs'y			29.95	760.7	59.2	15.1	80	sse.	15	6.7			8					overcast	John Hartnup.
Bolton, Sharples	29.44	747.8	29.97	761.2	54.8	12.7	87	ssw.	12	5.4			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.56	750.8	29.96	761.0	62.3	16.8	54	sw.			2		10			0.07	1.8	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	83.0	28.3	71	ne.			2		3					d. clouds	Corpl. W. I. Gull, A. H. C.
Cardington	29.93	760.2	30.03	762.7	72.0	22.2	40	sw.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	29.92	760.0	30.05	763.3	65.0	18.3	67	ne.			1		9					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.78	756.4	30.01	762.2	60.5	15.8	75	wsw.			2		9					d. clouds	The Staff.
Fort Napier, Natal	27.53	699.2	29.76	755.9	77.3	25.2	24	se.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.66	753.4	29.89	759.2	80.0	26.7	87	s.			1		4					raining	J. W. Smith.
Galway, Queen's College	29.77	756.1	29.80	756.9	56	13.3	87	w.			3		7			0.15	3.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	74.2	23.4	90	e.			1		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.67	753.6	29.87	758.7	54.5	12.5	89	s.			3		10					raining	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.86	758.4	30.02	762.5	68.8	20.4	52	ssw.			1		8					d. clouds	The Staff.
Guernsey	29.76	755.9	30.06	763.5	62.6	17.0	67	ssw.			1		7					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.99	761.7	30.03	762.7	68.3	20.2	48	s.	11	4.9			7					d. clouds	The Staff.
Leicester, Museum	29.74	755.4	29.98	761.5	67.0	19.4	48	sw.			1		7					d. clouds	J. C. Smith.
Malta, Mediterranean	29.91	759.7	29.99	761.7	71.2	21.8	98	nw.										blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.16	766.1	78.5	25.8	82	se.			3		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.46	748.3	29.98	761.5	61.7	16.5	64	s.			4		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.78	756.4	30.01	762.2	64.7	18.2	58	s.			5		7					squally	The Staff.
Plymouth	29.93	760.2	30.01	762.2	59.7	15.4	90	s.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.72	754.9	29.82	757.4	56.8	13.8	76						4					showery	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.77	756.1	29.83	757.7	83.8	28.8	53	ne.			2		6					d. clouds	W. H. Lyne.
Sheffield	29.69	754.1	29.96	761.0	68.4	20.2	61	s.			4		8			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.88	758.9	29.91	759.7	60.1	15.6	73	sw.			3		5			0.070	1.8	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.99	761.7	56.0	13.3	75	s.	9	4.0			10					drizzling	W. C. Carlisle.
Truro, Royal Institution	29.97	761.2	30.06	763.5	65	18.3	68	s			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.92	760.0	29.94	760.5	54.5	12.5	90	wsw.	18	8.0			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.66	753.4	30.05	763.3	71.6	22.0	61	w.	9.3	4.2		1 c		w.		0	0	clear	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.94	760.5	29.99	761.7	54	12.2	94	sw.	7	3.1			10 s			0.200	5.1	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.91	759.7	29.97	761.2	57	13.9	69	sw.	6	2.7		0	0			0.053	1.4	clear	G. A. Blair.
Cornwall, Ontario	29.99	761.7	30.19	766.8	49.0	9.4	80	w.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.85	758.2	29.90	759.4	52.0	11.1		w.			1		0			0.480	12.2	blue sky	H. A. Johnson.
Father Point, Quebec*	29.84	757.9	29.86	758.4	47	8.3	83	nw.	20	8.9		5 cs	5 ks	calm	calm	0.11	2.8	fair	J. McWilliams.
Fort Garry, Manitoba*	28.74	730.0	29.54	750.3	57	13.9	74	w.	22	9.8		0	8 ks		w.	0	0	fair	James Stewart.
Fredericton, N. B.	29.98	761.5	30.04	763.0	59.0	15.0	61	w.	9	4.0		0	2 k			0.250	6.3	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	29.23	742.4	30.37	771.4	40.0	4.4	100	calm	0	0						0	0		Jas. Grant.
Halifax, N. S*	29.95	760.7	30.08	764.0	53	11.7	96	nw.	5	2.2			10 n			1.100	27.9	light rain	A. Allison.
Hamilton, Ontario	29.92	760.0	30.32	770.1	49.9	9.9	82	sw.			1		0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.92	760.0	30.26	768.6	49	9.4	74	w.	5	2.2		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.97	761.2	30.03	762.7	58.3	14.6	92	s.			5					0.87	22.1	thn'dr & l'tng	O. H. Rigby.
London, Ontario	29.44	747.8	30.37	771.4	43.7	6.5	91	calm			0	0	0			0	0	blue sky	E. B. Reed.
Montreal, Quebec*	29.96	761.0	30.16	766.1	50	10.0	77	w.	16	7.2			10 ks		nw.	0.02	0.5	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.94	760.5	30.19	766.8	50.7	10.4	76	nw.			3	10 k	0			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.62	752.3	30.33	770.4	44	6.7	93	w.	4	1.8		5 k	5 k	w.	w.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.56	750.8	30.30	769.6	51.7	10.9		nw.			2	2 0	0			0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.64	752.8	30.35	770.9	47	8.3	84	calm	0	0		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.68	753.9	30.34	770.6	46	7.8	93	nw.	2	0.9		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.67	753.6	30.02	762.5	51	10.6	93	w.	12	5.4			10 ks		w.	0.45	11.4	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.78	756.4	30.25	768.3	46	7.8		nw.	5	2.2			10 s		nw.	inap.	inap.	cloudy	W. H. McIntyre.
St. Andrews, N. B.	30.01	762.2	30.06	763.5	51	10.6	96	wsw.	1	0.4		hz.	0			0.04	1.0	clear	
St. John, N. B	29.91	759.7	30.07	763.8	50.0	10.0	100	sw.	6	2.7		0	7 ck			0.750	19.0	d. clouds	G. Murdock, C. E.
Saint John's, N. F.	29.94	760.5	30.19	766.8	62	16.7	88	sw.			4		10 n			0	0	overcast	J. Higgins.
St. Pierre, N. F.			30.08	764.0	50.0	10.0		n.			7					0.21	5.3		The Commandant.
Saugeen, Ontario*	29.61	752.1	30.34	770.6	42	5.6	93	w.	4	1.8		0	0			inap.	inap.	clear	
Stratford, Ontario	29.07	738.4	30.37	771.4	47.0	8.3	84	nw.	3	1.3		0	0			0	0	clear	C. J. Macgregor, M. A.
Sydney, C. B*	29.96	761.0	30.02	762.5	54	12.2	96	sw.	29	12.5			10 n			1.13	28.7	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.97	761.2	30.36	771.1	48	8.9	74	w.	10	4.5		0	0			0	0	clear	Magnetic Observatory.
Windsor, N. S	29.94	760.5	30.04	763.0	55.0	12.8	97	n.	7	3.1			10 n			0	0	overcast	Prof. W. R. Butler, M.A.
Woodstock, Ontario	29.23	742.4	30.31	769.9	47.8	8.8	83	sw.	3	1.3		0	0			0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.06	763.5	30.13	765.3	47	8.3	96	sw.	2	0.9		hz.	hz.			0.96	24.4	light rain	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper 0-10	Lower 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.74	755.4	29.77	756.1	77.0	25.0	50	nw.	5.2	2.3		7 ck	0			0	0	light haze	John Dutton
Springbok Fontein	28.10	713.7			56	13.3	69	sw.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.72	754.8	29.83	757.6	73.0	22.8	29	calm			0		0			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.81	757.2	29.84	757.8	66.0	18.9	76	nne.	1.6	0.7			10			0.028	0.7	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.09	764.3	30.14	765.5	62.1	16.7	48	nne.	11	5			0						Oversergent Fischer.
Fanoe	30.10	764.5	30.12	765.0	68.7	20.4	55	ssw.			2		6						Overloerer Lauridsen.
Godthaab, Greenland	29.93	760.2	29.97	761.3	40.8	4.9	75	s.			2		10					hazy	S. Kleinschmidt.
Jacobshavn, Greenland	29.95	760.7	30.00	761.9	39.4	4.1		calm			0		5						
Stykkisholm, Iceland	30.08	763.9	30.12	765.0	42.1	5.6	74	e.			2		0						A. O. Thorlacius.
Thorshavn	29.78	756.3	29.80	756.9	48.4	9.1	99	calm	0	0			10					rain & fog	Overloerer Bergh.
Vestervig	30.07	763.7	30.16	766.0	59.0	15.0	57	calm			0		1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.71	754.5			86.4	30.2	36	n.	9.8	4.4		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.60	751.7	30.22	767.6	76.6	24.8	63	nw.			1		k		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.53	750.0	30.08	764.0	69.1	20.6	72	sw.			1	0	2 k		ne.	0	0	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.86	758.5	29.94	760.5	78.1	25.6	51	ne.			1		2		nw.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.44	747.7	29.97	761.3	73.0	22.8	55	ese.			1	0	8 kn		e.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.78	756.3	30.03	762.8	73.4	23	39	ene.			2		8		s.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.08	738.6	29.95	760.6	73.4	23	83	nne.			2		10 n		sw.			raining	M. Gobin, Director.
Bordeaux, Observatory	29.75	755.6	30.00	762.1	72.5	22.5	43	w.			1		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.48	748.9	30.02	762.4	73.4	23	37	nne.			1		k		nne.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.85	758.3	30.16	764.5	66.2	19.0	73	sw.			2		9		sw.	0	0		M. de Kermarée, Dir.
Caen, Normal School	29.90	759.5	29.97	761.3	70.2	21.2	46	ssw.			1		10		ssw.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.56	750.9	29.87	758.6	74.1	23.6	61	w.			1		2		ne.	0	0	slightly cl'dy	M. Judot, Director.
Charleville, Normal School	29.50	749.2	29.98	761.5	77.5	25.3	55	nne.			1		5			0	0	stormy	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.66	727.9	29.97	761.2	69.8	21.0	55	n.			1	0	8 k		e.	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.13	740.0	30.00	762.1	71.2	21.8	62	n.			1		8		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.14	740.1	29.97	761.1	71.2	21.8	60	ne.			2		k	ne.	ne.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.46	697.4	29.90	759.5	72.5	22.5	78	n.			1	0	2 n		s.	0.04	1.		M. Jeangirard, Director.
Gréasque, du Rhone	28.85	732.8	29.94	760.4	72.5	22.5	56	sw.			1		3		sw.	0	0		M. Kina, Director.
Grenoble. Normal School	29.19	741.4	29.94	760.5	71.6	22	62	nw.			1	ck	0	nw.		1.272	32.3		M. Allard, Director.
Guéret, Normal School	28.54	725.0	30.09	764.3	65.3	18.5	67	nw.			1	ck	0	se.		0	0		M. Delorme, Dir.
Lamballe, Normal School	29.91	759.7	30.18	766.5	70.5	21.4	55	wsw.					k		wsw.	0	0		M. Olliffrault, Director.
Lescar, Normal School	29.41	747.0	29.95	760.8	73.2	22.9	46	w.			1	c	2 k			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.98	761.4	30.08	764.0	65.8	18.8	56	ssw.			2		5	nw.	sw.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.94	735.1	29.98	761.4	65.8	18.8	74	nne.			1		10 n		n.	0.031	0.8	covered	M. André, Director.
Mans, Normal School	29.74	755.5	30.05	763.2	68.9	20.5	70	w.			1		8		sw.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.69	754.0	29.95	760.7	75.9	24.4	57	wsw.			1		1			0	0		M. Stephan, Director.
Montlouis	24.90	632.4	29.74	755.4	59.0	15.0	35	e.	11.2	5.0			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.80	756.8	29.92	759.9	75.9	24.4	71	sw.			2		5		sw.	0	0	fair	M. Gaizin, Director.
Nancy, Normal School	29.24	742.6	29.99	761.7	73.4	23.0	65	nnw.			1		ckn			0.008	0.2		M. Hasse, Director.
Nantes, Observatory	29.91	759.7	30.06	763.5	75.0	23.9	52	wsw.			0-1	0	9k;knn		sw.	c	0		M. Larocque, Director.
Perpignan, Observatory	29.86	758.4	29.97	761.1	75.2	24.0	41	se.	5.6	2.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.32	541.4			45.0	7.2		nw.			1		5		nw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.91	734.4	29.93	760.3	74.5	23.6	70	n.			1		5 n		n.	0	0	cloudy	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.21	640.3			50.0	10.0	88	ene.			2		8		ene.	0	0	¾ covered	M. Alluard.
Rochefort, Naval Obs'y	30.00	762.0	30.03	762.8	76.6	24.8	49	nw.			1		2		se.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.77	756.1	29.98	761.4	72.7	22.6	43	w.			1		2		w.	0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.89	708.3	29.97	761.1	72.9	22.7		nw.			1	0	1 k		ne.	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.95	760.7	30.00	761.9	72.7	22.6	44	ssw.			1		2	nw.		0	0	slightly cl'dy	M. Mouillot, Dir.
Saint Maur, Observatory	29.86	758.5	30.02	762.6	72.5	22.5	41	s.			1		0			0	0		M. Renou, Director.
Toulouse, Observatory	29.34	745.1	30.06	763.5	74.1	23.4	50	se.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.81	757.1	29.98	761.6	74.8	23.8	47	se.			1		5	sw.	ssw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.53	750.0	30.02	762.5	71.2	21.8	38	nw.			1					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.88	759.0	30.03	762.8	73.6	23.1	55	nw.	7.8	3.5		c	5 k	sw.	w.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.59	726.1	29.98	761.5	72.3	22.4	56	ne.			2		3	ne.		0.142	3.6		Prof. Jaedt.
Bamberg	29.15	740.5	30.00	761.9	74.3	23.5	44	ne.			3		3 k	n.		0	0		Prof. Dr. Hoh.
Berlin	29.92	760.0	30.06	763.5	77.4	25.2	32	ne.			2		0			0	0		Dr. Sensch.
Breslau	29.54	750.2	30.07	763.7	72.9	22.7	28	ne.			3		6			0	0		Royal University Obs'y
Carlsruhe	29.54	750.2	29.98	761.4	73.8	23.2	59	e.			1		2	ne.		0	0		Albert Senz.
Cassel	29.31	744.4	30.02	762.5	81.7	27.6	42	n.			2		3	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.98	761.4	77.9	25.5	39	e.			2		3			0.016	0.4		Physical Society.
Friedrichshafen	28.56	725.5	29.93	760.3	69.1	20.6	69	ne.			3		6	ne.		0	0	hazy	Wilhelm, Chief Tel.
Hamburg	30.01	762.2	30.10	764.5	72.5	22.5	60	ne.			3		1			0	0		E. Preller.
Kiel	30.15	765.7	30.16	766.1	64.9	18.3	44	ne.			2		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.62	752.4	30.03	762.7	75.9	24.4	31	ne.			2		1			0	0		H. Leppig, Asst.
Magdeburg	29.86	758.5	30.06	763.4	76.6	24.8	34	n.			2		0			0	0		Weather Observatory.
Memel	30.07	763.8	30.12	765.0	62.8	17.1	52	n.			3	4 ck	0						Issermann.
Munich	28.17	715.6	30.04	762.9	68.9	20.5	58	ne.			2		6	e.		0.571	14.5		Central Station.
Neufahrwasser	30.13	765.2	30.14	765.6	59.7	15.4	55	n.			3		0			0	0		A. Lothes.
Neustadt, Palatinate	29.47	748.4	29.99	761.8	75.7	24.3	48	e.			3		3	e.		0	0		Dicknether.
Stuttgart	29.04	737.5	29.89	759.3	72.0	22.2	61	e.			1		8	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.16	766.0	30.19	766.7	65.5	18.6	50	nne.			2		0			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.50	749.4	29.87	758.8	83.3	28.5		s.			2.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.62	752.5	29.67	753.7	91.2	32.9	68	w.	30.0	13.4			0			0	0	misty	
Deesa	29.20	741.7	29.65	753.0	108.3	42.4	19	wsw.	8.0	3.6			0			0	0	blue sky	
Bombay	29.77	756.2	29.81	757.2	86.3	30.2	76	ssw.	17.0	7.6			10		wsw.	0	0	overcast	
Poona, Yarrowda	27.97	710.4	29.82	757.5	79.3	26.3	74	w.	24.0	10.7			10			0.73	18.5	overcast	
Trichinopoly	29.53	750.0	29.80	756.9	98.3	36.8	35	s.	1.0	0.4			6	nne.	ne.	0	0	d. clouds	
Belgaum	27.29	693.2	29.83	757.6	76.3	24.6	78	ssw.	10.0	4.5			9	s.	w.	0.02	0.5	d. clouds	
Lahore	28.88	733.6	29.59	751.5	103.3	39.6	24	w.	3.0	1.3			0			0	0	blue sky	
Roorkee	28.72	729.5	29.58	751.2	100.3	37.9	21	w.	1.0	0.4			0			0	0		
Agra	29.08	738.5	29.61	752.2	104.1	40.1	18	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.63	727.3	29.63	752.6	99.9	37.7	28	nw.	6.0	2.7			8		nw.	0	0	d. clouds	
Jubbulpore	28.32	719.4	29.62	752.4	99.7	37.6	19	nw.	8.0	3.6			8		nw.	0	0	d. clouds	
Lucknow	29.25	743.0	29.61	752.1	102.4	39.1	19	wnw.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.30	744.3	29.60	751.9	101.2	38.4	24	calm	0	0			5			0	0	d. clouds	
Patna	29.42	747.3	29.60	751.8	102.3	39.1	21	w.	3.8	1.7			0			0	0	blue sky	
Hazaribagh	27.68	703.1	29.62	752.3	94.7	34.8	25	n.	7.3	3.3			1			0	0	d. clouds	
Cuttack	29.63	752.6	29.71	754.7	81.0	27.2	87	calm	0	0			10			1.20	30.5	drizzling	
Calcutta, Alipore	29.67	753.5	29.69	754.1	75.5	24.2	88	s.	14.0	6.3			10			2.42	61.5	thnd'r storm	
Dhubri	29.51	749.5	29.62	752.5	89.7	32.1	73	ssw.	5.2	2.3			0			0	0	blue sky	
Chittagong	29.65	753.0	29.74	755.3	84.7	29.3	84	s.	2.6	1.2			5		s.	0	0	blue sky	
Sibsagar	29.40	746.8	29.74	755.3	79.1	26.2	88	ne.	2.0	0.9			10	w.	w.	0	0	d. clouds	
Jeypore	28.24	717.3	29.62	752.4	100.2	37.9	22	nnw.	5.7	2.6			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.00	762.0	30.02	726.5	83.6	28.7	62	ssw.	9.0	4.0			3	se.		0	0	d. clouds	
Bellary	28.29	718.6			92.8	33.8	40	n.	8	3.6		4 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.50	749.3	29.89	759.3	76.6	24.8	59	e.	2.5	1.1			8			0	0		Prof. Giovanni Clodig.
Milan	29.41	747.1	29.91	759.8	74.5	23.6	61	se.					7	ne.		0.051	1.3		Prof. G. V. Schiapparelli.
Padua	29.80	756.8	29.90	759.5	74.7	23.7	52	n.	2.5	1.1			7	ne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.02	737.3	29.91	759.6	69.6	20.9	71	s.	3.8	1.7			3	ne.		0.142	3.6		Prof. F. F. Denza.
Genoa	29.75	755.7	29.94	760.5	68.0	20.0	71	sw.	4.3	1.9			10	sw.		0.012	0.3		Prof. G. M. Garibaldi.
Mondovi	28.04	712.2	29.90	759.4	69.6	20.9	52	e.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.85	758.3	29.90	759.5	68.0	20.0	73	se.	7.4	3.3			4	sw.		0	0		Prof. Luigi Guidi.
Florence	29.61	752.2	29.86	758.5	71.2	21.8	80	nw.			2		10	nnw.		0.102	2.6		Prof. Costantino Pittei.
Leghorn	29.80	756.8	29.88	758.9	69.8	21.0	74	wsw.	2.5	1.1			7	w.		0	0		Prof. P. Monte.
Rome	29.76	755.8	29.93	760.1	73.9	23.3	53	wsw.	18.1	8.1			8	w.		0.012	0.3		Prof. P. Tacchini.
Lecce	29.66	753.3	29.90	759.5	78.4	25.8	42	ene.	7.4	3.3			3	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.10	739.0	29.95	760.7	77.0	25.0	68	wsw.	3.1	1.4			8	sw.		0.016	0.4		Prof. D. Conti.
Cagliari	29.76	755.8	29.94	760.5	70.3	21.3	65	s.			4		5	w.		0	0		Prof. A. Pacinotti.
Palermo	29.76	755.9	30.01	762.2	73.8	23.2	52	nne.	6.3	2.8			0	wnw.		0	0		Prof. G. Cacciatore.
Syracuse	29.90	759.4	29.94	760.5	78.1	25.6	62	nne.	18.6	8.3			2	e.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.43	747.6	29.95	760.6	67.3	19.6	74	w.	4.3	1.9			10	w.		0.327	8.3		Prof. F. Brioschi.
Stelvio	22.21	564.2			45.5	7.5	68	e			1		10			0.260	6.6	covered	Prof. P. F. Denza.
Valdobbia	22.24	564.9			51.6	10.9	68	ne.			1		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.62	752.5	29.65	753.1	63.4	17.4	84	se.			2		10 ck			0.059	1.5	cloudy	H. Hattori.
Awomori	29.68	753.9	29.71	754.6	52.8	11.6	88	ne.	2.7	1.2			10 ks			0.208	5.3	overcast	K. Ogawa.
Hamamatsu	29.64	752.8	29.67	753.5	58.8	14.9	95	e.			6		10 n			0.957	24.3	raining	Y. Seldgawa.
Kannazawa	29.39	746.5	29.49	749.1	58.8	14.9	94	e.	1.5	0.6			10			0.412	10.5	overcast	S. Endo.
Kagoshima	29.56	750.8	29.57	751.1	67.0	19.4	94	nw.			2		10 n			1.588	40.3	raining	G. Miyanonaza.
Kioto	29.38	746.2	29.55	750.6	60.9	16.1	91	nne	5.8	2.6			10 n			0.939	23.8	light rain	M. Tojima.
Kochi	29.46	748.2	29.48	748.7	63.0	17.2	90	w.	4.1	1.8			10 s			0.75	19.0	overcast	K. Kusunose.
Miasaka	29.49	749.1	29.52	749.8	71.1	21.7	86	wsw.			2		10 n		w.	1.059	26.9	raining	K. Masusaki.
Miyako	29.72	754.8	29.83	757.6	51.2	10.7	97	nw.	0.2	0.1			10 n					raining	N. Honno.
Nagasaki, I. M. Obs'y	29.35	745.5	29.55	750.6	65.1	18.4	97	w.	3.3	1.4			10 n			1.720	43.7	light rain	S. Takehayashi.
Niigata	29.56	750.8	29.60	751.8	65.2	18.4	78	se.	14.1	6.3			10 n			0.260	6.6	light rain	M. Morita.
Nobiru	29.73	755.1	29.74	755.5	55.4	13.0	98	n.	2.4	1.1			10 n			0.720	18.3	light rain	H. Midzushina.
Numazu	29.72	754.9	29.76	755.8	58.1	14.5	95	nne.			4		10 n			1.453	36.9	raining	R. Kaneda.
Osaka	29.49	749.1	29.51	749.5	61.8	16.6	88	ne.	20.9	9.3			10 n			0.516	13.0	light rain	H. Omura.
Sakai	29.42	747.1	29.43	747.3	60.8	16.0	95	ene.			2		10 n		sse.	1.004	25.5	raining	K. Yamawchi.
Tokei Obs'y, Yeddo	29.70	754.3	29.77	756.1	62.5	16.9	85	s.	17.1	7.6			10 n			0.932	23.7	raining	The Staff.
Wakayama	29.42	747.2	29.47	748.5	61.6	16.4	94	calm	0	0			10 n		s.	0.648	10.5	light rain	K. Sakai.
Shimonoseki	29.35	745.5	29.50	749.3	64.1	17.8	99	w.			2		10 n			1.370	34.8	raining	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	73.5	23.1	63	se.	11.0	4.9		0	2 ks;k		wsw.	0.006	1.5	clear	The Staff.
MEXICAN.																			
Guanajunto	23.75	603.3	29.97	761.3	61.3	16.3	79	nne.	inap.	inap.		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.39	619.5	30.05	763.3	59.7	15.4	88	nw.	0.9	0.4		0	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.74	755.4	30.00	761.9	72.5	22.5	95	ese.	11.0	4.9		0	5 n		s.	0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					70	21.1	84	n.	6.1	2.7		0	0			0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.05	763.3	30.05	763.3	70.3	21.3		sw.			2					0	0		
Groningen	30.01	762.2	30.06	763.6	67.8	19.9		e.			1					0	0		
Helder	30.06	763.6	30.06	763.6	60.8	16.0		e.			2					0.358	9.1		
Hellevoetsluis	30.05	763.2	30.05	763.2	71.6	22.0	57	w.			2					0	0		
Utrecht	30.00	761.9	30.04	763.1	72.1	22.3	61	ne.			1		5			0.004	0.1	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.90	759.5			79.7	26.5	80	n.	0	0			5			0	0		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	30.04	763.1	30.11	764.7	63.0	17.2	43	sw.	7	3			1			0	0		
Bronö	30.17	766.2	30.21	767.2	54.5	12.5	71	n.			6		2			0	0		
Christiania	29.96	760.9	30.10	764.5	68.0	20.0	43	sw.	9	4			3			0	0		
Ojæsvær	30.24	768.0	30.26	768.6	47.7	8.7		w.			6		10						
Lodingen	30.24	768.1	30.29	769.3	52.0	11.1	73	sw.			2		1			0	0		
PORTUGUESE.																			
Angra, Azores	30.15	765.8	30.31	769.8	64.6	18.1	82	nw.	19.9	8.9			5			0	0		Dr. J. A. Sampaio.
Campo Major	28.98	736.2	29.96	760.9	71.6	22.0	58	sw.	4.9	2.2			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.07	763.7	30.13	765.3	68.0	20.0	66	sw.	3.8	1.7			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.6	30.04	763.0	66.6	19.2	60	nnw.	21.0	9.4			2			0	0		The Staff.
Ponta Delgada, Azores	30.27	768.8	30.34	770.6	67.3	19.6	72	wnw.	10.5	4.7			3			0	0		
Saint Paul de Loando	29.78	756.4	29.98	761.5	77.5	25.2	80	ssw.			2		10			0	0		
San Salvador	28.14	714.7	29.98	761.4	77.2	25.1	69	sse.			1		10			0	0		
Serra da Estrella	25.31	642.9	29.91	759.8	61.3	16.3	51	ese.	4.9	2.2			1			0	0		
RUSSIAN.																			
Akmolinski	28.35	720.0	29.32	744.8	89.8	32.1	25	e.	11	5		6 ck	0			0	0		Major K. Lasarew.
Archangel	30.13	765.3	30.15	765.8	65.1	18.4	32	nne.	9	4		0	0			0	0		Capt. Ssellwerstow.
Ashurada	30.00	762.0	29.91	759.6	79.7	26.5	79	nnw.	16	7		0	1 k			0	0		
Astrakhan	29.83	757.7	29.75	755.6	77.4	25.2	41	wnw.	16	7		0	8 kn			inap.	inap.		Capt. Wisganow.
Baku	30.01	762.2	29.96	761.0	74.1	23.4	77	s.	9	4		0	5 k			0	0		
Barnaul	29.06	738.0	29.51	749.6	84.0	28.9	28	s.	9	4			9			0	0		Meteorological Obs'y
Bielosersk	29.53	750.1	29.99	761.7	63.7	17.6	56	nne.	9	4		0	4 ks			0	0		
Dorpat	29.82	757.5	30.06	763.4	70.9	21.6	34	nne.	7	3		8 cs	0			0	0		Observatory.
Ekaterinburg	28.87	733.3	29.85	758.3	36.1	2.3	96	nne.	16	7			10			0.256	6.5	raining	Meteorological Obs'y
Elissawetgrad	29.45	748.0	29.88	758.9	75.7	24.3	37	nw.	11	5		0	6 ks			inap.	inap.		
Irkutsk	28.24	717.2	29.82	757.4	64.8	18.7	58	calm			0		7			0.016	0.4		
Kasalinsk	29.24	742.8	29.42	747.3	69.8	21.0	57	sw.	4	2			10 ks						
Kasan	29.27	743.5	29.53	750.0	65.1	18.4	78	ne.	9	4			10 n			0.362	9.2	thud'r storm	Observatory.
Kem	30.15	765.9	30.21	767.2	54.7	12.6	58	ne.	18	8		0	0			0	0		
Kertch	29.91	759.7	29.93	760.3	72.9	22.7	61	s.	11	5			9 n			0	0		Lagorio & Sustyrev.
Kieff	29.26	743.1	29.87	758.7	67.1	19.5	49	n.	9	4		0	6 ks			0	0		Observatory.
Koslov	29.16	740.6	29.69	754.0	54.1	12.3	90	nnw.	22	10			10 n			0.091	2.3	light rain	
Libau	30.08	763.9	30.10	764.5	57.6	14.2	63	nw.	11	5			5			0	0		E. Quaas.
Lugan	29.55	750.5	29.73	755.1	68.5	20.3	61	wnw.	9	4			8			0.201	5.1		Meteorological Obs'y.
Moscow	29.34	745.2	29.80	757.0	59.2	15.1	65	nnw.	7.8	3.5			9 ks			0	0		Meteorological Obs'y
Nikolaiev	29.91	759.6	29.98	761.5	74.7	23.7	67	calm	0	0		0	0 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.68	735.9	29.77	759.1	48.4	9.1	76	se	7	3			0			0	0		Iwanow.
Pekin, China	29.54	750.3	29.68	753.9	76.1	24.5	13	nw.	7.8	3.5		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.58	751.3	29.91	759.8	81.9	27.7	42	w.	2.2	1.0		0	7 k			0.110	2.8		
Petrozavodsk	29.85	758.2	30.04	763.0	64.8	18.2	48	ne.	9	4		0	1 s			0	0		Dr. Bergmann.
Pinsk	29.48	748.8	29.96	761.0	74.3	23.4	41	n.	9	4		0	4k			0	0		
Poti	29.93	760.1	29.96	760.9	76.5	24.7	80	nw.	4	2		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
St. Petersburg	30.05	763.3	30.08	763.9	61.2	16.2	57	ene.	9	4		0	0			0	0		Central Physical Obs'y.
Samarkand	27.54	699.5	29.89	759.3	76.8	24.9	50	nw.	7.8	3.5			10 n			0	0		
Semipalatinsk	28.97	735.9	29.57	751.1	89.8	32.1	19	sw.	9	4			5			0	0		Major Lasarew
Sevastopol	29.74	755.3	29.96	760.9	74.1	23.4	48	nnw.	7	3		5 cs	0			0.016	0.4		
Staroi Bykhov	29.55	750.6	30.00	761.9	68.5	20.3	39	n.	9	4			10 ks			0.016	0.4		
Tashkend	28.15	715.1	29.75	755.7	72.0	22.2	63	calm	0	0			10 kn			0	0		Terch, A. M.
Tiflis	28.55	725.2	29.90	759.4	80.6	27.0	28	nw.	11	5		2 ck	0			0	0		Physical Observatory.
Vernoe	27.23	691.7	29.59	751.6	77.0	25.0	56	ne.	2	1		0	8 n			0	0		
Viatka	29.19	741.5	29.82	757.5	48.2	9.0	78	ne.	9	4			9			0.016	0.4		
Warsaw	29.61	752.1	30.02	762.4	71.8	22.1	38	n.	7	3		7 cs	0			0	0		Astronomical Obs'y.
Yeniseisk	29.50	749.3	29.79	756.6	46.8	8.2	78	e.	2	1			10			0.146	3.7		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.79	756.7	53	11.7	93	s.			4		10			0.1	3.	rainy	J. Youngclauss
North Unst			29.90	759.4				s.			6		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.88	758.9	29.98	761.6	74.3	23.5	67	s.	3.8	1.7		0	1 k			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.01	762.2	30.07	763.7	72.7	22.6	62	nw.	1.6	0.7		3	6	n.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.04	686.8	29.88	759.0	72.5	22.5	44	e.	2.5	1.1		0	4			0	0		Domingo Martin.
Madrid, Royal Obs'y	27.76	705.0	29.89	759.1	78.3	25.7	39	sw.	13.4	6.0		0	3			0	0		The Staff.
Murcia, Met. Obs'y	29.82	757.5	29.96	760.9	82.8	28.2	62	e.	4.0	1.8		2	3	wsw.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.26	743.2	30.13	765.2	57.2	14.0	89	n.	6.3	2.8		8 n	6 k	e.	s.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.13	740.0	30.02	762.4	63.1	17.3	67	n.	7.4	3.3			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.02	762.5	30.08	764.1	81.4	27.4	73	e.	5.6	2.5		c;cs	k	n.	e.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.81	757.2	29.87	758.6	81.8	27.7	79	wsw.	15.4	6.9		0	2 k		w.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.89	759.1	29.98	761.5	75.2	24.0	70	e	7.5	3.4		0	6		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.96	761.0	30.05	763.3	78.8	26.0	86	se.	6.3	2.8		4 cs	3 k	se.	se.	0.669	17.0	d. clouds	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.87?	758.7?	29.91?	759.7?	68.4	20.2	53	s.			4		2			0	0		
Umea	30.15	765.9	30.21	767.2	65.1	18.4	45	s.			2		0			0	0		
Hernosand	30.10	764.4	30.15	765.7	73.0	22.8	29	ne.			2		2			0	0		
Stockholm	29.97	761.3	30.15	765.8	65.1	18.4	48	nne.			2		0			0	0		
Wisby	30.00	762.1	30.06	763.6	53.2	11.8	76	n.			2		0			0	0		
Sub-series.																			
Upsala	30.10	764.6	30.19	766.8	64.4	18.0	53	nne.	8.1	3.6			0			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.57	725.6	29.95	760.8	67.1	19.5	63	n.			3		5			0	0	cloudy	The Observatory.
TURKISH.																			
Constantinople			29.89	759.3	84.9	29.4	57	nne.	16	7.0			3		sw.	0	0		The Observatory.
Valona			30.08	763.9	79.0	26.1		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.1	79.5	26.4	91	n.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.71	678.4			70	21.1	90						7 ks		ne.	1.	25.		Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.20	767.1	30.28	769.1	58	14.4	54	w.	9	4.0		0	4 k		nw.	0.05	1.3	fair	J. O. Barnes.
Alpena, Michigan	29.67	753.6	30.32	770.1	48	8.9	71	s.	6	2.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	29.82	756.4	43	6.1	03	ne.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.31	693.7	30.10	764.5	31	— 0.6	62	nw.	8	3.6		3 c	0	w.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.00	736.6	30.15	765.8	63.0	17.2	09	n.	3	1.3		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.24	768.1	30.25	768.3	62	16.7	72	n.	5	2.2		2 c	0			0.10	2.5	clear	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	72.0	22.2	71	ne.	8	3.6		0	0			inap.	inap.	clear	John Healy.
Baltimore, Maryland	30.25	768.3	30.30	769.6	65	18.3	54	n.	9	4.0		0	0			0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.22	767.6	30.24	768.1	60.3	15.7	72	ne.	14	6.3		0	0			0.14	3.6	clear	G. A. Hill.
Behring Id., Behring Sea	29.99	761.7	30.01	762.2	35.7	2.1		sw.	7	3.1		0	3 k		sw.	0	0	clear	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.26	717.8	29.80	756.9	59.0	15.0	41	nw.	24	10.7		4 c	0			0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.35	694.7	30.12	765.0	37	2.8	56	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.76	679.7	29.90	759.4	41	5.0	67	e.	8	3.6			10 s			0	0	cloudy	T. Gibson.
Bismarck, Dakota	28.07	713.0	29.83	757.7	44	0.7	63	nw.	28	12.5		0	8 ks		sw.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.20	767.1	30.24	768.1	57	13.9	86	s.	1	0.4		3c; cs	fg.	nw.		0.13	3.3	clear	J. T. Elker.
Boise City, Idaho	27.13	689.1	29.92	760.0	50	10.0	74	nw.	2	0.9		4 k	0			0	0	fair	J. Kenealy.
Boston, Massachusetts	30.04	763.0	30.19	766.8	60.0	15.6	70	nw.	8	3.6		2 c;cs	1 s			0.34	8.6	clear	O. B. Cole.
Brownsville, Texas	29.95	760.7	29.99	761.7	80.0	26.7	88	s.	4	1.8		0	0			0	0	clear	E. C. Imlay.
Buffalo, New York	29.60	751.8	30.34	770.6	49.5	9.7	71	w.	6	2.7		0	0			0	0	clear	W. Finn.
Buford, Fort, Dakota	28.09	713.5	30.05	763.3	40	4.4	59	nw.	24	10.7		0	0			0	0	clear	A. Schneider.
Burlington, Vermont	29.91	759.7	30.20	767.1	52.0	11.1	72	sw.	4	1.8			10 s		w.	0	0	cloudy	D. N. Farnell.
Cairo, Illinois	29.89	759.2	30.28	769.1	61.6	10.4	68	se.	3	1.3		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.23	767.8	30.25	768.3	66.0	18.9	78	n.	0	2.7		0	5 k		n.	0.90	22.9	fair	A. K. Alderson.
Cape May, New Jersey	30.23	767.8	30.26	768.6	65.0	18.3	73	n.	6	2.7		0	0			0.15	3.8	clear	W. E. Smith.
Cape Mendocino, California	29.35	745.5	30.03	762.7	46	7.8	83	nw.			1	5 k	0	nw.		0	0	fair	J. J. McLean.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	78	25.6	76	nw.	5	2.2		2 c	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.03	762.7	30.08	764.0	76.0	24.4	82	ne.	4	1.8		1 ck	1 k	ne.	ne.	inap.	inap.	clear	J. H. Smith.
Charlotte, N. Carolina	29.35	745.5	30.18	766.6	67.0	19.4	50	ne.	8	3.6		5 c	sk.	ne.		0.10	4.1	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.39	746.5	30.20	767.1	63.0	17.2	73	nw.	1	0.4		1 k	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.97	608.8	29.71	754.6	49.3	9.6	61	n.	14	6.3		3 c	4 ks	w.		0	0	fair	E. McGovern.
Chicago, Illinois	29.60	751.8	30.29	769.4	56.9	13.8	60	se.	3	1.3		0	0			0	0	clear	John Laurens.
Chincoteague, Virginia	30.24	768.1	30.26	768.6	66	18.9	78	ne.	10	4.5		hz.	0			0.37	9.4	dense haze.	C. F. Dickens.
Cincinnati, Ohio	29.69	754.1	30.34	770.6	57.0	13.9	64	n.	4	1.8		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.62	752.3	30.35	770.9	51.4	10.8	73	se.	3	1.3		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.23	717.0	29.98	761.5	70	21.1	84	calm	0	0		9 k	0			0	0	cloudy	T. J. Kenan.
Columbus, Ohio	29.48	748.8	30.32	770.1	52	11.1	66	nw.	3	1.3		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.10	713.7	29.97	761.2	70.0	21.1	97	ne.	4	1.8			10 n		s.	0.10	2.5	light rain	J. McGlone.
Davenport, Iowa	29.57	751.1	30.21	767.3	58	14.4	64	s.	13	5.8		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.19	739.8	29.80	756.9	68	20.0	59	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.20	716.3	29.94	760.5	42	5.6	64	n.	4	1.8		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.38	644.6	29.82	757.4	46	7.8	74	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del	30.22	767.6	30.24	768.1	60	15.6	87	n.	12	5.4		0	hz.			0.07	1.8	clear	T. S. Townsend.
Denver, Colorado	24.61	625.1	29.65	753.1	61.5	16.4	42	s.	5	2.2			9 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.20	741.7	30.08	764.0	59	13.3	74	s.	8	3.0		5 cs	0	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.64	752.8	30.33	770.4	52.0	11.1	80	calm	0	0		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.34	694.4	29.85	758.2	61	16.1	84	sw.	20	8.9		0	5 k		w.	0	0	fair	D. J. Carr.
Dubuque, Iowa	29.51	749.5	30.20	767.1	57.2	14.0	64	se.	5	2.2		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.23	742.4	29.96	761.0	54	12.2	62	ne.	1	0.4		5 cs	0	w.		0.06	1.5	fair	N. B. Conger.
Eagle Pass, Texas	29.21	741.9	30.00	762.0	78.8	26.0	76	se.	9	4.0			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.14	638.5	29.73	755.1	46	7.8	54	n.	3	1.3			10 s		s	0	0	cloudy	H. R. Boynton.
Eastport, Maine	30.02	762.5	30.08	764.0	54.0	12.2	86	sw.	3	1.3		3 c	6 s;hz	sw.	sw.	0.28	7.1	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.21	691.1	29.88	758.9	56	13.3	53	se.	8	3.0		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.27	667.2	29.86	758.4	66.0	18.9	30	w.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.64	752.8	30.36	771.1	52	11.1	80	nw.	1	0.4		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.56	750.8	30.21	767.3	53.0	11.7	72	s.	6	2.7		hz.	hz.			0	0	dense haze.	George Heathcote.
Galveston, Texas	30.04	763.3	30.08	764.0	78	25.6	90	se.	8	3.6		2 ck	5 ks		se.	0	0	fair	E. O'C. Machnerney.
Grand Haven, Michigan	29.64	752.8	30.29	769.4	55.0	12.8	62	s.	9	4.0		0	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.27	641.8	29.81	757.2	58.4	14.7	25	n.	5	2.2		0	0			0.04	1.0	clear	Robert C. Lord.
Hatteras, North Carolina	30.16	766.1	30.18	766.6	71	21.7	90	e.	12	5.4			10 s		e.	0.07	1.8	cloudy	R. M. Crawford.
Helena, Montana	25.81	655.6	29.93	760.2	37	2.8	56	sw.	7	3.1		0	0			0	0	clear	H. W. Dodge.

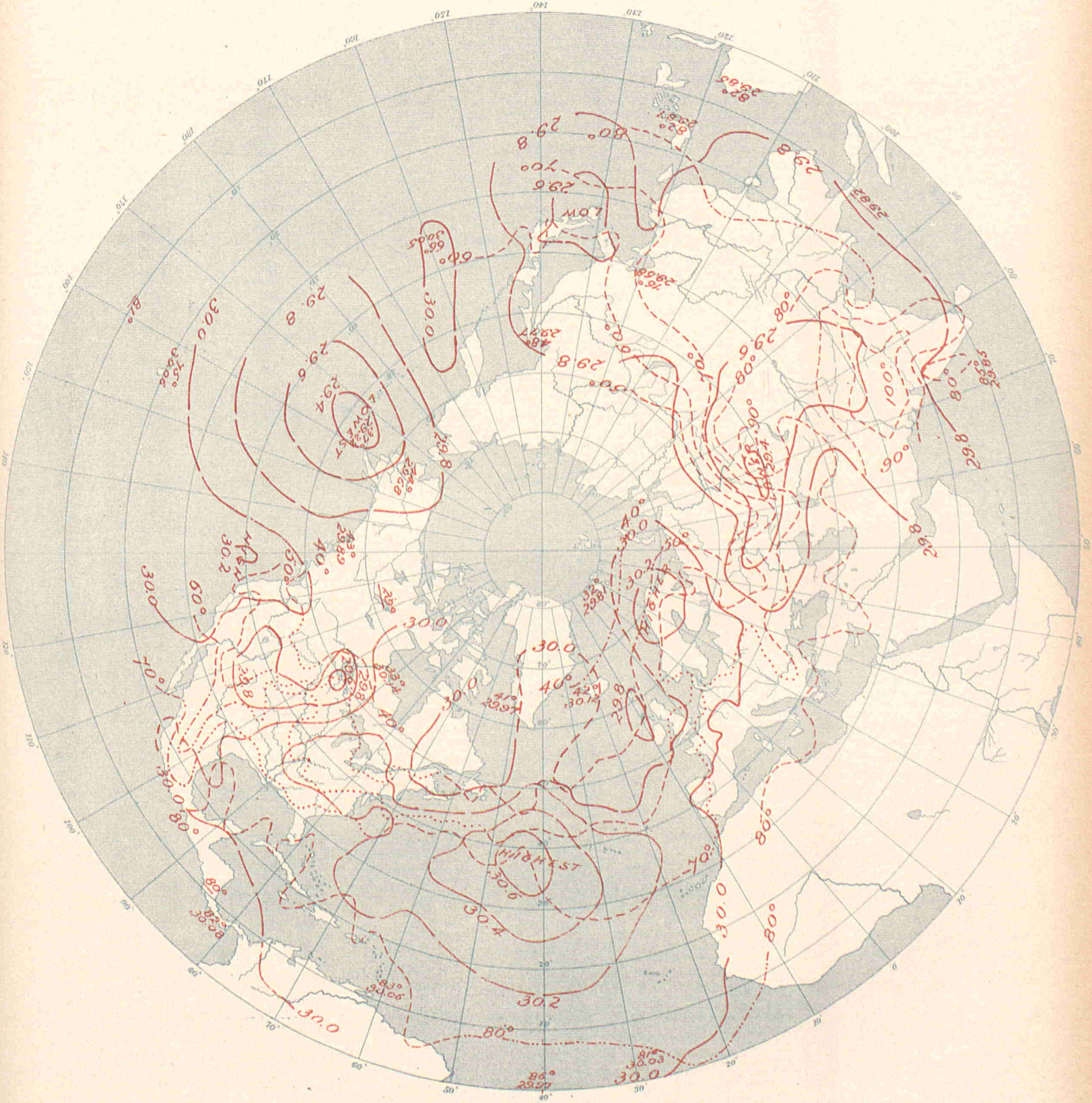
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.40	721.3	29.74	755.5	61.9	16.6	82	s.	18	8.0	.....	5 k	0	s.	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.51	749.5	30.29	769.4	56.8	13.8	50	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.03	762.7	78.3	25.7	90	se.	6	2.7	.....	4 k	0	se.	.....	inap.	inap.	fair	I. A. Reed.
Jacksonville Florida	30.06	763.5	30.10	764.5	77	25.0	76	calm	0	0	.....	5 cs	0	sw.	.....	0.12	3.0	fair	J. W. Smith.
Keogh, Fort, Montana	27.62	701.5	30.05	763.3	38	3.3	73	n	16	7.2	.....	0	6 s	.....	.....	0	0	fair	W. B. Lamar.
Keokuk, Iowa	29.55	750.6	30.19	766.8	58.0	14.4	64	se.	15	6.7	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	85.0	29.4	67	e.	3	1.3	.....	0	4 k	.....	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.24	768.1	30.26	768.6	61	16.1	96	ne.	10	4.5	.....	.....	10 s	.....	ne	0	0	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	29.21	741.9	30.22	767.6	58.2	14.6	80	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.33	745.0	30.09	764.3	64	17.8	75	s.	14	6.3	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.24	742.7	30.11	764.8	59	15.0	75	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.13	739.9	29.95	760.7	44.5	6.9	76	calm	0	0	.....	3 cs	0	.....	.....	0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.88	758.9	30.19	766.8	61	16.1	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.68	753.9	30.07	763.8	58	14.4	86	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.71	754.6	30.26	768.6	56	13.3	80	n	6	2.7	.....	0	0	.....	.....	0	0	clear	L. M Dey.
Lynchburg, Virginia	29.57	751.1	30.24	768.1	66.5	19.2	59	ne.	2	0.9	.....	4 c	0	n.	.....	0.01	0.3	fair	Louis Duane.
Mackinaw City, Michigan	29.61	752.1	30.25	768.3	52.9	11.6	55	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.13	765.3	30.14	765.5	71.0	21.7	100	s.	6	2.7	.....	.....	10 s	.....	s.	0.27	6.9	cloudy	William Daly.
Maginnis, Fort, Montana	25.63	651.0	29.96	761.0	36	2.2	49	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.43	747.5	30.15	765.8	51	10.6	59	sw.	8	3.6	.....	10 k	0	sw.	.....	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.89	759.2	30.22	767.6	61	16.1	78	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.54	750.3	30.28	769.1	55	12.8	62	sw.	10	4.5	.....	0	sk.	.....	.....	0	0	clear	W. Line.
Missoula, Fort, Montana	26.66	677.2	29.92	760.0	45	7.2	41	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Young.
Mobile, Alabama	30.12	765.0	30.16	766.1	72	22.2	90	ne.	3	1.3	.....	5ck; k	3 ks	sw; w.	.....	0.07	1.8	cloudy	C. A. Read.
Montgomery, Alabama	29.90	759.4	30.13	765.3	67	19.4	78	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.74	730.0	29.71	754.6	57	13.9	80	s.	12	5.4	.....	.....	10 n	.....	s.	inap.	inap.	light rain	H. White.
Mt. Washington, N. H.	23.80	604.5	29.92	760.0	28.0	— 2.2	100	nw.	56	25.0	.....	.....	fg.	.....	nw.	0.68	17.3	dense fog	S. W. Beall.
Nashville, Tennessee	29.66	753.4	30.22	767.6	56.5	13.6	90	n.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.12	765.0	30.23	767.8	58	14.4	69	n.	8	3.6	.....	2 c	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.20	767.1	30.25	768.3	64	17.8	58	calm	0	0	.....	4 c	0	.....	.....	0.11	2.8	fair	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.12	765.0	75.0	23.9	97	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	M. Herman.
New York, New York	30.09	764.3	30.26	768.6	64	17.8	52	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.22	767.6	30.25	768.3	68	20.0	78	calm	0	0	.....	7 k	fg.	w.	.....	0.83	21.1	fair	Wm. Davis.
North Platte, Nebraska	26.88	682.7	29.68	753.9	62.6	17.0	72	w.	20	8.9	.....	4 cs	2 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.10	764.5	30.14	765.5	40.0	4.4	82	s.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.84	732.5	29.98	761.5	60.3	15.7	75	s.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	29.79	756.7	29.81	757.2	28.9	— 1.7	100	n.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.97	761.2	30.29	769.4	46.0	7.8	77	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. G. Linsley.
Palestine, Texas	29.57	751.1	30.11	764.8	72.0	22.2	84	se.	8	3.6	.....	0	7 k	.....	s.	0	0	fair	J. W. Byram.
Pensacola, Florida	30.10	764.5	30.13	765.3	73.0	22.8	84	nw.	5	2.2	.....	0	1 s	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	30.18	766.6	30.28	769.1	62.5	16.9	78	n.	12	5.4	.....	0	0	.....	.....	0.17	4.3	clear	T. F. Townsend.
Pike's Peak, Colorado	17.81	452.4	29.63	752.6	22	— 5.6	80	sw.	40	17.9	.....	.....	fg.	.....	.....	0	0	dense fog	H. Hall.
Pioche, Nevada	24.03	610.4	29.83	757.7	50.0	10.0	39	s.	8	3.6	.....	7 c	0	s.	.....	0	0	fair	F. R. Day.
Pittsburg, Pennsylvania	29.53	750.0	30.32	770.1	53.5	11.9	73	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Poplar River, Montana	27.88	708.1	29.98	761.5	.....	.....	.....	sw.	.....	.....	4	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.62	752.3	30.29	769.4	48.0	8.9	86	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	30.09	764.3	30.14	765.5	59.0	15.0	60	w.	10	4.5	.....	2 c	0	w.	.....	0.05	1.3	clear	W. W. Eichelberger.
Portland, Oregon	29.98	761.5	30.05	763.3	44.5	6.9	65	calm	0	0	.....	8 cs	0	.....	.....	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	73	22.8	84	ne.	17	7.6	.....	.....	10 s	.....	ne.	0.15	3.8	cloudy	F. P. Chaffee.
Prescott, Arizona	24.79	629.7	29.81	757.2	45.0	7.2	48	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	30.17	766.3	30.20	767.1	59	15.0	70	w.	5	2.2	.....	3 c	0	w.	.....	0.28	6.9	clear	C. N. Kitchel.
Punta Rassa, Florida	30.07	763.8	30.08	764.0	76.5	24.7	84	e.	3	1.3	.....	3 c	0	.....	.....	0.01	0.3	clear	W. J. Evans.
Red Bluff, California	29.66	753.4	30.00	762.0	58	14.4	70	s.	8	3.6	.....	.....	10 ks	.....	s.	0	0	cloudy	J. R. Williams.
Rochester, New York	29.66	753.4	30.31	769.9	48	8.9	71	nw.	9	4.0	.....	0	hz.	.....	.....	0.01	0.3	clear	E. W. McGann.
Roseburg, Oregon	29.50	749.3	30.05	763.3	43	6.1	86	w.	1	0.4	.....	8 c	0	w.	.....	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.96	761.0	30.02	762.5	54.0	12.2	86	s.	6	2.7	.....	0	5 s	.....	se.	0	0	fair	J. A. Barwick.
St. Louis, Missouri	29.66	753.4	30.26	768.6	56.0	13.3	86	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.64	752.8	29.68	753.9	44	6.7	76	nw.	12	5.4	.....	0	5 ks	.....	w.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.10	739.1	29.94	760.5	57.5	14.2	69	s	23	10.3	.....	5 cs; k	2 s	w.	s.	0.06	1.5	fair	P. F Lyons.
St. Vincent, Minnesota	28.75	730.2	29.60	751.8	58	14.4	70	sw.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	C. B Dilley
Salt Lake City, Utah	25.53	648.5	29.75	755.6	60	15.6	33	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.34	745.2	30.02	762.5	76	24.4	85	e.	1	0.4	.....	.....	8 s	.....	.....	0	0	cloudy	J. H. Davis.
San Diego, California	29.97	761.2	30.04	763.0	58.6	14.8	92	n.	7	3.1	.....	.....	10 n	.....	nw.	inap.	inap.	light rain	A. C. Dobbins.
Sandy Hook, New Jersey	30.23	767.8	30.26	768.6	60.5	15.8	87	nw.	10	4.5	.....	5 k	0	nw.	.....	0.01	0.3	fair	B. A. Blundon.
Sanford, Florida	30.03	762.7	.....	.....	78	25.6	85	w.	3	1.3	.....	3 c	0	.....	.....	0.09	2.3	clear	J. B. Marbury.
San Francisco, California	29.98	761.5	30.06	763.5	52	11.1	83	w.	9	4.0	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	N. Gorom.
Santa Fé, New Mexico	23.26	590.8	29.76	755.9	54	12.2	44	s.	2	0.9	.....	1 k	2 k	sw.	sw.	0	0	clear	H. U. Jones.
Savannah, Georgia	30.01	762.2	30.10	764.5	74	23.3	82	n.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	H. W. Ford.
Shaw, Fort, Montana	26.46	672.1	30.03	762.7	36	2.2	64	ne.	5	2.2	.....	8 k	0	.....	.....	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.92	760.0	30.15	765.8	67.0	19.4	90	e.	4	1.8	.....	.....	10 s	.....	e.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.80	731.5	30.00	762.0	67.5	19.7	86	se.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	W. M. Mattingly.
Sitka, Alaska	29.83	757.7	29.89	759.2	43	6.1	74	e.	8	3.6	.....	.....	10 ks	.....	e.	0.04	1.0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.69	754.1	30.15	765.8	61.0	16.1	84	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville North Carolina	30.08	764.0	30.12	765.0	73	22.8	90	se.	13	5.8	.....	.....	10 n	.....	e.	0.05	1.3	light rain	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	30.00	762.0	40	7.8	56	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.59	751.6	30.26	768.6	54.5	12.5	71	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Starkville, Miss	29.73	755.1	30.20	767.1	62	16.7	78	ne.	3	1.3	.....	4 c	2 s	w.	.....	0	0	fair	C. Dill.
Stockton, Fort, Texas	26.97	685.0	29.89	759.2	69	20.6	76	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.23	691.6	29.86	758.4	58	14.4	49	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.04	752.8	30.32	770.1	54	12.2	67	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.55	699.8	29.85	758.2	60	15.6	46	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.20	741.7	29.22	742.2	37	2.8	89	s.	12	5.4	.....	.....	10 n	.....	s.	0.01	0.3	light rain	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	49	9.4	22	se.	.....	.....	1	0	0	.....	.....	0.03	0.8	clear	O. L. Pease.
Vicksburg, Mississippi	29.91	759.7	30.16	766.1	67.4	19.7	80	ne.	5	2.2	.....	0	8 k	.....	sw.	0	0	cloudy	James Kenealy.
Visalia, California	29.62	752.3	29.99	761.7	57.0	13.9	79	w.	2	0.9	.....	1 cs	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.47	621.5	29.85	758.2	43.1	6.2	83	e.	1	0.4	.....	2 ck	4 k	.....	.....	0	0	fair	T. M. Ambler.
Washington, D. C.	30.18	766.0	30.29	769.4	62.4	16.9	58	ne.	6	2.7	.....	1 k	0	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.92	658.4	29.68	753.9	60.4	15.8	50	w.	4	1.8	.....	2 k	2 s	w.	.....	0	0	fair	F. H. Brandenburg.
Williamsport, Pa	29.71	754.6	30.31	769.9	55	12.8	69	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.09	764.3	30.14	765.5	75	23.9	85	e.	5	2.2	.....	0	9 s	.....	n.	inap.	inap.	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.58	649.7	29.84	757.9	48	8.9	80	sw.	6	2.7	.....	0	8 s	.....	sw.	0.41	10.4	cloudy	J. Grover.
Yankton, Dakota	28.58	725.9	29.86	758.4	61	16.1	72	s.	5	2.2	.....	0	6 k	.....	.....	0	0	fair	J. H. Atfield.
Yuma, Arizona	29.73	755.1	29.87	758.7	64.5	18.1	70	e.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.05	763.3	79	26.1	73	n.	1	0.4	.....	10 cs	0	.....	.....	0.04	1.0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	82	e.	.....	.....	2	5 ck	6 k	e.	e	0.960	24.4	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.46	748.3	30.02	762.5	77	25.0	89	calm	.....	.....	0	.....	10 ks	.....	n.	0.14	3.6	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	80	26.7	90	ne.	.....	.....	1	.....	ks	.....	ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallon.
York Factory, B. A.	30.08	764.0	30.14	765.5	32.5	0.3	94	w.	9	4.0	.....	: cf	0	w.	.....	0	0	fair ?	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 40° 30′, E. 16° 26′	29.90	759.4	74	23.3	76	wsw.			1		10	wsw.						overcast.
H. M. Dockyard, Bermuda, Atlantic	30.32	770.1	73.5	23.1	88	sse.			3		5	sse.						d. clouds.
H. M. S. Gannet, N. 8° 30′, W. 13° 14′	29.97	761.2	79.5	26.4	89	e.			3		9					2	s.;sw.	showery.
H. M. S. Himalaya, N. 36° 36′, E. 0° 09′	29.99	761.7	73	22.8	85	ene.			3		3					2	ene.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.88	758.9	75	23.9	100	nne.			2		0							blue sky.
H. M. S. Minotaur, N. 39° 43′, W. 9° 51′	30.07	763.8	63	17.2	75	nnw.			5		7	ssw.				2	nnw.	d. clouds.
H. M. S. Opal, N. 22° 28′ W. 22° 30′	30.09	764.3	72	22.2	80	nne.			4		1	nne.				4	nne.	blue sky.
H. M. S. Satelite, N. 48° 55′, W. 8° 50′	29.98	761.5	58	14.4	82	w.			2		8	wsw.				4	wsw.	d. clouds.
H. M. S. Tyne, N. 12° 26′, W. 57° 53′	30.09	764.3	80	26.7	87	e.			3		2	calm				3	e.	d. clouds.
H. M. S. Thetis, N. 5° 45′, W 20° 22′	30.02	762.5	77	25.0	86	ssw.			2		8	nne.				3	s.	drizzling.
H. M. S. Tenedos, St. John's, N. F	30.09	764.3	61	16.1	88	sw.			5		8	se.						squally.
H. S. M. S. Eugenie, N. 58° 08′, E. 9° 06′	30.09	764.2	56.3	13.5	88	calm			0		0							blue sky.
U. S. Navy Yard, Portsmouth, N. H *	30.10	764.5	58	14.4	70	nw.	7	3.1			0			0	0			clear.
U. S. S. Lancaster, Kronstadt, Russia	30.09	764.3	66	18.9	79	ese.			2		2		calm			sm'h		fair.
U. S. S. Nipsic, New York, N. Y			65	18.3	63	nw.			1		2							clear.
U. S. S. Portsmouth, Newport, R. I	30.27	768.8	56	13.3	?	calm			0		5		w.					fair.
U. S. S. Powhatan, N 29° 20′ W. 79° 42′	30.04	763.0	80	26.7	95	w.			2		5					long	nw.	fair.
U. S. S. Quinnebang, Grand Bassa, W. Africa	30.03	762.7	79	26.1	82	s.			3		8		s.			long	s.	cloudy.
U. S. S. Saratoga, New York, N. Y	30.26	768.6	64	17.8	67	n.			1–2		2		n.	0	0	sm'h		fair.
U. S. S. Vandalia, New York, N. Y	30.24	768.1	67	19.4	79	nw.			2		0							clear.
Commewyne, N. 49° 57′, W. 7° 34′	30.00	762.0	58.3	14.6	82	wsw.			3		3							misty.
Inchkeith, N. 32° 25′, W. 41° 28′	30.60	777.2	71.8	22.1	74	nne.			5		4							d. clouds.
H. P. M. S. Rio Lima, Porto Praya, Cape Verde Islands			75.2	24.0	85	ne.			2		0					3	se.	blue sky.
S. S. British Prince, N. 40° 40′ W 53° 44′ †	30.48	774.2	64	17.8		sw.			3		4		w.	0	0			clear.
S. S. Illinois, Philadelphia, Pa	30.26	768.6	60	15.6		nne.			3		5		ne.					fine.
S. S. Lord Clive, N. 48° 10′, W. 34° 25′						wnw.			6		10		wnw.	shr's	shr's	str'g	w.	stormy.
S. S. Ohio, N. 38° 58′, W. 70° 17′ †	30.11	764.8	55	12.8		nw.			4		10		nw.	8 h'r	8 h'r	mod.	sw.	cloudy.
S. S. Pennsylvania, N. 50° 43′, W 14° 47′ †	29.97	761.2	54	12.2		nw.			3		5?		nw.	0	c	mod	nw.	cloudy?
S. S. Grecian, Moville, Ireland	29.77	756.1	57	13.9	87	s.			3		10		ssw.	20 h'r	20 h'r			cloudy.
S. S. Polynesian, N. 50° 53′, W. 41° 06′	30.26	768.6	50	10.0		wnw.			5		5		wnw.	0	0	mod.	nw.	fair.
S. S. Prussian, N. 52° 03′, W. 35° 56′	29.98	761.5	48	8.9		nnw.			3		3		nw.	0	0	sm'h	nw.	
S. S. Manitoban, N. 49° 10′, W. 42° 20′	30.34	770.6	44	6.7	92	ssw.			3		10		sw.	0	0	sm'h		overcast.
S. S. Sardinian, Lough Foyle, Ireland	29.77	756.1	59	15.0		sw.			4		8		sw.	sh'rs	sh'rs			showery.
S. S. Alvo, N. 30° 16′, W. 74° 09′ *	30.17	766.3	74	23.3		ssw.			6		8		calm	0	0	cross		hazy.
S. S. Andes, Mayagues, Porto Rico, W. I. *†	30.00	762.0				var.					2			0	0			fine.
S. S. Alene, Kingston, Jamaica†	30.07	763.8				var.			2–4		0			0	0			clear.
S. S. Anchoria, N. 48° 35′, W. 35° 59′†	30.25	768.3				nw.			5		7		nw.	2 h'r	2 h'r	mod.	n.	cloudy.
S. S. Assyria, N. 40° 58′, W. 49° 29′	30.56	776.2	69	20.6		s.			3		3		calm	0	0	sm'h		fine.
S. S. Dorian, N. 50° 26′ W. 14° 55′	30.00	762.0	60	15.6		w.			1		6		calm	0	0	long	w.	fine.
S. S. Devonia, N. 45° 01′, W. 44° 58′ *†	30.54	775.7	52	11.1		sw.			2		3		nw.			sli't	w.	clear.
S. S. Furnessia, N. 47° 51′, W. 32° 56′†	29.90	759.4	50	13.3	94	nnw.			6		6		nnw.	2 h'r	2 h'r	long	nw.	fair
S. S. Elysia, N. 44° 21′, W. 63° 20′	30.03	762.7	47.2	8.4		ssw.			4		10			20 h'r	20 h'r	mod.	sw.	raining.
S. S. Jerome, N. 7° 30′, W. 50° 55′			80	26.7	?	ene.			5		7		e.	6 h'r	6 h'r	mod.	ne.	cloudy.
S. S. Llandaff City, N 40° 58′, W. 57° 30′			70	21.1		s.			5		2		s.	0	0	sm'h		clear.
S. S. Marathon, Palermo, Sicily	30.02	762.5	65	18.3		ene.			3		2		ne.	0	0	sm'h	ne.	fine.
S. S. France, N. 40° 44′, W. 62° 54			68.0	20		sw.			3		1			0	0	sm'h	s.	clear.
S. S. Ville de Marseilles, N. 35° 25′, W. 37° 45′			63	17.2		nne.			3		3		ne.	0	0	long	ne.	fair.
S. S. Arizona, N. 41° 59′, W. 51° 44′	30.41	772.4	53	11.7		sw.			3		3		sw.	0	0	sm'h		foggy.
S. S. Wyoming, N. 45° 27′ W. 40° 26′	30.44	773.2	56	13.5		w.			6		4		wnw.	0	0	long	wnw.	fair.
S. S. Bohemia, N. 43° 06′, W. 54° 30′						ssw.			4		10		ssw.	0	0	long	sw.	foggy.
S. S. Gellert, Havre, France	30.07	763.8	70	21.1	80	calm			0		4		ssw.	0	0			fair.
S. S. Rugia, Hamburg, Germany	30.10	764.5	82	27.8		ne.			4		2		ne.	0	0			fair.
S. S. Silesia, N. 23° 14′, W. 59° 15′	30.23	767.8	76.5	24.7		e			5		3		ne.	0	0	5	ne.	fair.
S. S. Wieland, N. 40° 30′, W. 69° 50′	30.25	768.3				ne.			4		10		ne.	12 h'r	12 h'r	mod.	s.	heavy rain.
S. S. City of Berlin, N. 43° 09′, W. 55° 31′	30.34	770.6	57	13.9	94	ssw.			2		10			0	c			light fog.
S. S. City of Paris, N. 40° 52′, W 64° 50′						s.			5		10		s.	0	c	long	s.	hazy.
S. S. Mentmore, N. 46° 09′, W. 37° 21′ *†	30.35	770.9				nw.			7		10		nw.	0	0	high	nw.	threatening
S. S. Virginian, N. 41° 48′, W. 60° 58′*	30.38	771.6	58	14.4		nnw.			5		0			½ h'r	½ hr	sm'h		clear.
S. S. Archimedes, N. 32° 40′, W. 68° 13′	30.25	768.3				sse.			2–3		2		s.	0	0	sm'h		fine.
S. S. Ptolemy, N. 3° 45′ W. 29° —	30.03	762.7	81	27.2	83	sw.			2	c	7 k			0.10	2.5	1	sw.	gloomy.
S. S. Colorado, N. 25° 40′, W. 85° 33′†	30.10	764.5	79	26.1		ese.			3		2		ese.	4 h'r	4 h'r	mod.	ese.	clear.
S. S. Rio Grande, Galveston, Texas *†	29.96	761.0	78	25.6		se.			2		1		se.	0	0			clear.
S. S. Chalmette, N. 26° 15′ W. 85° 25′†	30.19	766.8	80	26.7		ese.			3		4		nnw.	0	0	sm'h		fair.
S. S. Lone Star, N. 33° 30′, W. 76° 40′†	30.12	765.0	76	24.4		se.			4		10			h'vy	hv'y	r'gh	se.	squally.
S. S. Hermod, N. 0° 01′, W. 40° 50′†	29.94	760.5	86	30.0		s.			1		1		se.	4 h'r	4 h'r	sm'h	s.	clear.
S. S. Allegheny, N. 40° 16′, W. 72° 50′†	30.28	769.1	68	20.0		se.			3		5		s.	rain	rain	hv'y	sw.	fair.
S. S. Archimede, Marseilles, France †	30.02	762.5	72	22.2	62	sw.			2		2		sw.	0	0			clear.
S. S. City of Merida, N. 21° 20′, W. 89° 40′†	30.13	765.3	75	23.9		e.			2		2		e.	0	0	light	e.	clear.
S. S. City of Washington, N. 19° 45′ W. 93° 16′†	30.13	765.3	80	26.7		e.			4		2		e.	0	0	sm'h		clear.
S. S. Denmark, N. 50° 05′, W. 4° 15′†	30.03	762.7	57	13.9		sw.			4		8		sw.	0	0	sm'h		cloudy.
S. S. Egypt, N. 41° 00′ W. 56° 54′	30.39	771.9	72	22.2		wsw.			4		2		wsw.	0	0	mod	wsw.	clear.
S. S. England, N. 50° 51′, W. 14° 30′	29.92	760.0	52	11.1		w.			4		10		w.	sq'lls	sq'lls	high	w.	cloudy.
S. S. Erin, New York, N. Y			73	22.8		se.			3		4		se.	0	0			fair.
S. S. Helvetia, Liverpool, Eng			65	18.3	89	s.			1		8		s.	12 h'r	12 h'r			cloudy.
S. S. Braunschweig, N. 49° 06′, W. 5° 05′	30.00	762.0	63.0	17.2	78	wnw.			3		8		nw.	0	0	sm'h	w.	cloudy.
S. S. Elbe, N. 49° 43′, W. 8° 21′	29.99	761.8	59	15.0	76	sw.			3		10		sw.	2 h'r	2 h'r	long	w.	covered.
S. S. Hohenzollern, N. 44° 32′, W. 33° 08′	30.27	768.8	57	13.9		nw.			7		10		nw.	1¾ h'r	1¾ h'r	high	nw.	squally.
S. S. Hohenstaufen, N. 38° 52′, W. 67° 38′	30.13	765.3				sse.			6		9		s.	2 h'r	2 h'r	mod.	sw.	misty.
S. S. Main, N. 42° 25′, W. 49° 37′	30.53	775.4	54	12.2		sw.			2		2		ssw.	0	0	sm'h		clear
S. S. Neckar, N. 44° 53′, W. 36° 38′	30.30	771.1	50.0	10.0	?	nw.			6		9		nw.	0	0	cross	nw.	cloudy
S. S. Ohio, N. 40° 28′, W. 40° 44′	30.61	777.5				wnw.			1		2		w.	0	0	mod.	wnw.	clear.
S. S. Salier, N. 50° 34′ W. 20° 25′ *	29.89	759.2	53	11.7	80	sw.			3		3		wsw.	3 h'r	3 h'r	high	n.	clear.
S. S. Strassburg, N. 36° 59′, W. 75° 17′	30.23	767.8	62.5	16.9	97	ne.			2		9		ne.	0	0	2	se.	cloudy.
S. S. Werra, N. 40° 27′, W. 59° 30′	30.43	773 0	73	22.8		sw.			3–4		4		sw.	0	0	mod.	sw.	fair.
S. S. Weser, N. 45° 52′, W. 33° 10′	30.17	766 3				nw.			6		8		wnw.	1 h'r	1 h'r	r'gh	nw.	cloudy.
S. S. City of Augusta, Savannah, Ga †	30.21	767.3				ssw.			2		6		sw.	0	0			fair.
S. S. Colon, N. 36° 52′, W. 73° 41′ †	30.19	766.8	60	15.6		n.			4		10		n.	4 h'r	4 h'r	small	s.	overcast.
S. S. Muriel, N. 25° 05′, W. 65° 40′	30.25	768.3	75	23.9		e.			4		5		e.	shr's	shr's	r'gh	ese.	drizzling.
S. S. Orinoco, N. 38° 25′ W. 71° 47′	30.12	765.0	62	16.7		ne.			5		7		ne.	0	0	hv'y	s.	hazy.
S. S. Rhynland, N. 45° 00′, W. 37° 00′	30.42	772.7	54	12.2	80	nw.			7		9		nw.	0	0	high	nw.	stormy.
S. S. Pennland, New York, N. Y	30.21	767.3				ne.			3		0			0	0			clear.
S. S. Switzerland, N. 49° 29′, W. 12° 43′	29.96	761.0				w.			6		8		w.	2 h'r	2 h'r	r'gh	w.	cloudy.
S. S. Waesland, Antwerp, Belgium	30.04	763.0	84	28.9		calm			0		10		s.	0	0			cloudy.
S. S. P. Caland, N. 40° 32′, W. 67° 50′	30.20	767.1	59.0	15	96	sse.			4		10		sse.			3	ssw.	misty.
S. S. Leerdam, N. 48° 56′, W. 23° 59′	29.77	756.1	58	14.4	91	nw.			4		6		nw.	5 h'r	5 h'r	mod.	nw.	fair.
S. S. Rotterdam, N. 40° 36′, W. 64° 36′	30.29	769.4	68	20.0	90	n.			4		4		nww.	10 h'r	10 h'r	4	nnw.	fair.
S. S. W. A. Scholten, Rotterdam, Holland	30.04	763.0	68.8	20.4	72	sse.			3		5		sw.	0	0			fair.
S. S. Caracas, Puerto Cabello, Venezuela†	30.02	762.5	81	27.2	91	calm			0		8		calm	½ h'r	½ h'r	sm'h		hazy.
S. S. Valencia, N. 23° 53′ W 69° 12′†	30.32	770.1	81	27.2	74	e.			4		2		e.	1 h'r	1 h'r	h'vy	e.	clear.
S. S State of Georgia, N. 40° 24′, W. 70° 30′†	30.18	766.6	51	10.6		ne.			6		10			10 mi	nutes	sm'h		rainy.
S. S. State of Nevada, N. 47° 47′ W. 36° 13′†	30.18	766.6	51	10.6		wnw.			6		10		wnw.	1 h'r	1 h'r	con.	nnw.	squally.
S. S. Thingvalla, Christiansand, Norway†	30.11	764.8	64.4	18.0		ssw.			3		2		ssw.	0	0			clear.
S. S. Romano, Hull, Eng†	30.06	763.5	68	20.0		sse.			2					0	0			overcast.
S. S. Oregon, N. 50° 17′, W. 34° 45′	30.04	763.0	49	9.4		nw.			6		9		nw.			long		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Olbers, N. 29° 27′, W. 18° 35′†	30.17	766.3	73	22.8	64	ne.			3		7		ne.	0	0	mod.	nnw	fair.
S. S. Daniel Steinmann, Antwerp, Belgium†	30.07	763.8	70	21.1		ne.			3		0			0	0			clear.
S. S. Normah, N. 39° 56′, W. 75° 08′	30.37	771.4				nw.			1		0			0	0			clear.
S. S. Saxon, Boston, Mass †	30.16	766.1				w.			3									fine.
S. S. Adriatic, N. 40° 22′, W. 68° 40′ *†	30.28	769.1	50	10.0		n.			3		10			12 h'r	12 h'r	sli't	s.	raining.
S. S. Baltic, Queenstown, Ireland*	29.91	759.7	57	13.9	94	sw.			3		9		sw.	sh'rs	sh'rs	sm'h		cloudy.
S. S. Germanic, N. 49° 25′ W. 27° 00′			58	14.4		wnw.			4		6		w.	0	0	mod.	w.	fair.
S. S. Iowa, N. 48° 00′ W. 33° 08′†	30.00	762.0	52	11.1		w.			7		9		w.	6 h'r	6 h'r	r'gh	wnw.	cloudy.
S. S. Antonio Lopez, N. 38° 10′, W. 9° 19′	30.08	764.0	66.5	19.2	76	nw.			4		1			0	0	mod.	nw.	clear.
Schr. Abbie H. Gheen, Jacksonville, Fla†	30.15	765.8	75	23.9		nw.			1									clear.
Bg. Alcira, N. 15° 55′. W. 72° 59′	30.07	763.8	84	28.9		ne.			4		4		ne.	0	0	mod.	ene.	fair.
Bk. Adelaide, N. 1° 23′, W. 27° 07′*†	30.04	763.0	83	28.3		ssw.			3		3		w.	2 h'r	2 h'r	mod.	sse.	clear.
Bk. Achille F, N. 0° 42′, W. 24° —†	29.97	761.2	80	26.7	91	ssw.			3		4		sw.	0	0	long	s.	fair.
Schr. Arthur Burton, St. Simon's Island, Ga†	30.10	764.5				nw.			1		5		n.	light	light	sm'h		fine.
Bk. Aureola, N. 35° 41′, W. 56° 48′†	30.50	774.7	84	28.9		se.			4		4		se.	0	0	mod.	se.	fair.
Bk. Arda, Wood Point, N. B						sw.			8		3		sw.	3 h'r	3 h'r			clear.
Bk. Alba, N. 50° 18′, W. 48° 38′*†	30.00	762.0	39.2	4.0		s.			4					rain	rain		sw.	
Bgt. Achsah, N. 32° 36′ W. 69° 49′†	30.23	767.8	76	24.4		sse.			2		0			0	0	mod.	sse.	clear.
S. S. Burswell, N. 43° 05′, W. 9° 50′ *†	30.10	764.5	69	20.6		n.			2		8		nnw.	⅛ hr	½ h'r	str'g	nw.	fine.
Bg. Belle of the Bay, Galveston, Texas	30.07	763.8				ese.			2		5		se.			sm'h	se.	light rain.
Schr. C. R. Flint, N. 28° 07′, W. 74° 16′†	30.20	767.1	72	22.2		se.			5		2		ese.	0	0	short	se.	clear.
Bk. Childwall, N. 39° 34′. W. 32° 25′*	30.42	772.7	66	18.9		nnw.			5		10		nnw.	0	0	mod.	nnw.	hazy
Bk. Cato, Bodöe, Norway *†	30.28	769.1				calm			0									
S. Criterion, N. 54° 42′, W. 23° 10′ *†	29.92	760.0				ne.			4		10		ne.	0	0	light	ne.	overcast.
Schr. Clotilde, N. 23° 12′, W. 95° 21′*†	29.99	761.7	83	28.3		e.			4		0			0	0	sm'h	e.	clear.
S. David Stewart, N. 23° 30′, W. 38° 37′†	30.35	770.9				ene.			3		3		ene.	6 h'r	6 h'r	mod	ne.	clear.
S. S. D. J. Foley, St. Ann's Bay, Jamaica, W. I*†	30.00	762.0	82	27.8	87	e.			2		4		e.	0	0			fair.
Bkt. David A. Preston, Navassa, W. I						e.			4		2		e.	0	0	long	se.	
S. E. J. Spicer, N. 51° 45′, W. 6° 35′	29.93	760.2	56	13.3	100	wsw.			5		5		wsw.	0	0	mod.	wnw.	fair.
Bk. E. D. Bigelow, N. 50° 44′, W. 12° 36′*†	29.90	759.4	66	18.9		wsw.			3		8		wsw.	½h'r	½h'r	long	wsw.	cloudy.
U. S. Fish Com. S. S. Fish Hawk, Washington, D. C†	30.24	768.1	62	16.7	83	n.			1		2		n.	0	0			clear.
Sch. F. E. Waters, Chesapeake Bay *†	30.20	767.1				ne.			2					0	0			
Bk. George Davis, N. 54° 06′, W. 13° 04′						nnw.			5				n.	0	0		nw.	hazy.
Bk. Galeon, N. 20° 49′, W. 90° 33′†	30.02	762.5	80	26.7		e.			3		0			0	0	sm'h	ene.	blue sky.
Bk. Heinrich & Tonio, N. 50° 05′, W. 3° 10′†	30.00	762.0	71	21.7		ssw.			3		5		ssw.	0	0	light	w.	fair.
S. Hedwig, N. 36° 33′, W. 7° 33′	30.01	762.2	67.6	19.8	89	ne.			2		3		ne.	0	0	1	n.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C†	30.07	763.8	70	21.1		ene.			2		8		ne.	2 h'r	2 h'r			clearing.
Schr. Isabel Alberto, New York N. Y†	30.22	767.6				nnw.			1		0			0	0			clear.
Bk. Johanne, N. 36° 00′, W. 6° 20′*†	29.90	759.4	73	22.8		wnw.			1		2		se.	0	0	mod.	w.	fine.
Schr. John L. Thomas, N. 23° 30′, W. 71° 41′*†	30.24	768.1				e.			5		2		sse.	¼h'r	¼h'r	mod.	e.	clear.
Bg. John Wesley, N. 35° 24′, W. 58° 30′ *†	30.44	773.2	75	23.9		sse.			3		2		sse.	0	0	sm'h	s.	clear.
Schr. Jennie N. Huddell, N. 32° 50′, W. 75° 25′†	30.20	767.1	72	22.2	100	ene.			5		10		ne.	0	0	long	sse.	cloudy.
Bkt. Kryohth, Arsuk Fiord, Greenland*†	30.10	764.5				e.			2		10		s.	light	light			foggy.
Light-house Tender Laurel, Pensacola Bay, Fla†	30.02	762.5	76	24.4		ne.			1		1		ne.	1 h'r	1 h'r			clear
Bg. Lilian, N. 19° 16′, W. 63° 50 †	30.13	765.3	81	27.2		ese.			4		7		ese.	1 h'r	1 h'r	mod.	e.	squally.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.06	763.5	79	26.1		se.			1		2			0	0			fair.
Bk. Milo, N. 46° 27′, W. 23° 30′†	29.85	758.2				w.			6				w.			light	w.	clear.
S. S. Madrid, Point Porman, Spain†	30.15	765.8	74	23.3	72	e.			4		2		se.	0	0			fair.
Schr. Minnie A. Bonsall, Hoboken, N. J†	30.24	768.1	73	22.8		n.							n.	0	0			clear.
Bk. Matilda C. Smith, N. 45° 20′, W. 26° 50′ †	30.06	763.5				wnw.			5		3		wnw.	3 h'r	3 h'r	mod	nw.	fine.
Bk. Mathais, N. 47° 54′, W. 13° 00′ *†	30.22	767.6	59	15.0		ssw.			1		6		wsw.	½h'r	½h'r	mod.	w.	threatening
Schr. Maggie Abbott, N. 35° 17′, W. 69° 27′†	30.25	768.3				ssw.			7		4		sw.	0	0	short	ssw.	clear.
Bk. National Eagle, N. 39° 28′, W. 59° 03′						ssw.			6		2		ssw.	0	0	mod.	ssw.	fair.
Bg. O. C. Clary, N. 39° 27′, W. 73° 01′*†	30.18	766.6				ne.			2		0					sm'h	s.	clear.
Bk. Ottawa, N. 48° 37′, W. 12° 57′	29.99	761.7	58	14.4		sw.			1		8		sw.	1 h'r	1 h'r	long	wnw	cloudy.
S. Paramita, N. 3° 41′, W 31° 04′†	29.93	760.2	83	28.3		nw.			1		1		wnw.	1 h'r	1 h'r	short	nne.	clear
S. S. Raleigh, Baracao, Cuba, W. I†	30.16	766.1	80	26.7		ne.			3					0	0			clear.
Bg. Rising Sun, N. 26° 28′, W. 61° 20′*†	30.20	767.1	75	23.9		e.			6		9		e.	0	0	short	e.	cloudy.
Bk. Rosino, N. 40° 00′, W. 44° 30′			72	22.2		s.			1		0			0	0	sm'h		clear.
Bk. Sunbeam, N. 39° 34′, W. 65° 40′†	30.32	770.1	74	23.3	86	ssw.			7		2		wsw.	3 h'r	3 h'r	rg'h	sw.	fair.
Bk. Southern Belle, N. 29° 15′, W. 27° 20 †	30.27	768.8	69	20.6		nne.			5		5		ne.	sh'rs	sh'rs	r'gh	ne.	fair.
Bk. Usko, N. 49° 46′, W. 3° 14′*	30.02	762.5	58	14.4	88	s.			1		6		sw.	0	0	mod.	w.	fair.
Bkt. Wandering Jew, Mantanzas, Cuba, W. I*†	30.10	764.5	81	27.2		se.			4		5		se.	4 h'r	4 h'r			fair.
Bgt. Sunlight, N. 32° 35′, W. 70° 00′						sse.			4		5		s.	0	0	mod.	s.	fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay*†	30.09	764.3	54	12.2	98	calm			0		2	nw.						blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.79	756.7	65	18.3		nnw.			1		5							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata	30.05	763.3	53	11.7	98	ne.			1		6	sw.						d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.08	764.0	56	13.3	100	n.	4	1.8			10		nnw.	0	0	sm'h		cloudy.
U. S. S Galena, Montevideo, Uruguay*	30.06	763.5	58	14.4	88	n.			1		10					sm'h		cloudy.
Bk. Horace Scudder S. 7° 26′, W. 21° 26′*†	30.10	764.5	80	26.7		sse.			4		3		sse.	0	0	light	sse.	fine.
S. Wm. McGilvery, S. 14° 21′, W. 37° 36′*†	30.15	765.8	78	25.6	82	sse.			4		3		sse.	0	0	mod.	s.	fair.
May Hulse, S. 28° 46′, W. 27° 57′	30.10	764.5	64	17.8	78	sw.			6		10							raining.
S. S. Hevelius, Bahia, Brazil †	30.21	767.3	78	25.6		sw.			7		9		ese.	14 h'r	14 h'r			raining.
Bk. Alpheus Marshall, S. 25° 39′, E. 6° 15′*†	29.86	758.4				nw.			4		9		wnw.	0	0	sm'h	sw.	cloudy.
Bk. Ceylon, S. 35° 25′ E. 17° 08′ *†	29.76	755.9	70	21.1	52	nw.			6		6	nw.	0	0	r'gh	nw.	fair.
S. Dynomene, S. 32° 28′, E. 15° 44′	29.79	756.7	62.5	16.9	88	nw.			3		8		0	0	cross	var.	misty.
H. P. M. S. Duque de Terceira, S. 15° 08′, E. 12° 00′	29.97	761.3	71.6	22.0	66	sw.			4		0		0	0	4	sw.	blue sky.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chin Kiang, China	29.73	755.1	73	22.8	81	wnw.			1		2	w.						d. clouds.
H. M. S. Champion, Labuan Id., Oceania	29.85	758.2	82	27.8	87	nw.			2		10					1	nw.	overcast.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 11′	29.50	750.8	57	13.9	75	wnw.			4		4	w.				2	w.	misty.
H. M. S. Magpie, N. 5° 17′, E. 115° 16′	29.89	759.2	81.1	27.3	79	s.			2		10							showery.
H. M. S. Sheldrake, N. 11° 07′, E. 118° 30′			82	27.8		ssw.			2		8					3	sw.	d. clouds
H. M. S. Zephyr, Kobe, Japan	29.44	747.8	62	16.7	?	ne			5		6	e.				3	ene	raining.
H. P. M. S. Tamega, Macao, China	29.75	755.6	86.9	30.5	85	sw.			1		5		nw.	0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.88	758.9	62.5	16.9	94	se.			3		10		se.	0.34	8.6			raining.
U. S. S. Adams, N. 58° 40′, W. 138° 14′†	29.90	759.4	44	6.7	92	ssw.			2		2					sm'h		clear.
U. S. S. Hartford, Honolulu Sandwich Ids*	30.06	763.5	75	23.9	77	ne.			1		8			sh'rs	sh'rs			cloudy.
U. S. S. Monocacy, Salee river, Corea	29.50	749.3	58	14.4	70	w.			4		8		wsw.					misty.
U. S. S. Palos, Hong Kong, China			84	28.9	87	sw.			1		8		w.					cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.62	752.3	82	27.8	100	sw.			3		5		sw.	0	0			fair.
U. S. S. Arabic, N. 37° 20′, E. 145° 10′			62	16.7	88	s.			3		5		sw.	0	0	sm'h		fair.
S. S. Oregon, San Francisco, Cal †	30.06	763.5	56	13.3	94	calm			0		5		wnw.					fair.
S. S. Ancon, San Francisco, Cal †	30.02	762.5	53	11.7	80	ssw.			4		8		sw.					cloudy.
S. S. City of Chester, Hookton, Cal†	30.05	763.3	47	8.3	92	calm			0		0							clear.
S. S. City of Rio de Janeiro, N. 35° 14′, E. 157° 00′†	30.05	763.3	66	18.9	94	w.			2		8		w	0	0	light	wnw.	hazy.
S. S. Granada, Panama, Panama †	29.91	759.7	76	24.4	95	ne.			2		5		ne.	3 h'r	3 h'r			fair.
S. S. San Blas, N. 7° 47′, W. 82° 59′			82	27.8		wnw.			1		10		e.	3 h'r	3 h'r	small	s.	cloudy.
S. S. Zealandia, N. 10° 03′, W 161° 58′			81	27.2	96	nne.			6		8		e.			h'vy	e.	cloudy

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Benledi, Kobe, Japan *	29.47	748.5	65	18.3	68	ene.			1–2		7		se.	8 h'r	8 h'r	sm'h		rainy.
S. S. Radnorshire N. 30° 22′, E. 129° 25′ *†	29.54	750.3				nw.			6		10		nw.	6 h'r	6 h'r	mod.	w.	heavy rain.
S. Sacramento. N 18° 15′. E. 116° 28′ *†	29.90	759.4	84	28.9	83	sw.			4		10		sw.	0	0	sm'h		overcast.
S. Titan, N. 43° 00′, W. 129° 04′*†	30.20	767.1	57	13.9	87	calm			0		0			0	0	small	nw.	clear.
Bk. Xenia, Shanghai, China*†.	29.90	759.4	76	24.4		ne.			5		4		nnw.	0	0			fair.
H. M. S. Sappho, N. 13° 56′, W. 90° 50′	29.91	759.7	82	27.8	91	se.			2		5	s.				5	s.	d. clouds.
U. S. S. Ranger, N. 15° 23′, W. 93° 15′	29.93	760.2	81	27.2	78	se.			1		8		calm	0.25	6.3	long	sw.	cloudy.
S. Henry Failing, N. 43° 12, W. 126° 34′†	30.05	763.3	55	12.8		n.			2		10		w.	0	0	long	nw.	overcast.
S. Grecian, Yokohama, Japan			69	20.6	95	nw.			4		10		nw.	11 h'r	11 h'r			raining.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W *†	30.13	765.3	56	13.3	63	sw.			2		2	s.						d. clouds.
H. M. S. Espiegle, S. 4° 12′, E. 177° 17′	29.91	759.7	83	28.3	83	ene.			2		0					2	ene.	blue sky.
H. M. S. Kingfisher, S. 25° 07′, W. 129° 50′	30.17	766.3	74	23.3		n.			3		6					3	ne.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.77	756.1	73	22.8	86	nw.			1		10							raining.
U. S. S. Essex, S. 0° 30′, E. 128° 47′	29.87	758.7	79	26.1	82	e.			4		2					sm'h	se.	clear.
U. S. S. Iroquois, Valparaiso, Chili	29.98	761.5	58	14.4	88	n			2		10		n.					misty.
U. S. S. Lackawanna, S. 24° 38′, W. 99° 00′*	30.16	766.1	66	18.9	64	se.			5		5		se.			mod.	se.	fair.
U. S. S. Onward, Callao, Peru†	30.13	765.3	63	17.2	78	se.			2		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.97	761.2	64	17.8	78	sse.	5	2.2			10		sse.	0	0			misty.
U. S. S. Wachusetts, S. 21° 10′, W. 161° 18′	29.94	760.5	75	23.9	90	ne.			2		0					mod	ne.	clear.
S. S. Australia, Sydney, N. S. W.	30.43	772.9	48	8.9	92	w.			2		2		wsw.	0	0			clear
H. M. S. Lark, S. 7° 29′, E. 155° 31′	29.90	759.4	81.3	27.4	80	e.			1		5					1	e.	d clouds.
S. S. City of Sydney, Sydney, N. S. W	29.97	761.2	55	12.8	56	sw.			5		0							clear.
Bk. Chas. Stewart, S. 43° 44′, E. 154° —′ †	29.89	759.2	57	13.9		nne.			3		5		ne.			mod.	var.	hazy.
S. Parker M. Whitmore, S. 56° 22′, W. 75° 38′ *†	29.31	744.5	42	5.6		nw.			3		10			16 h'r	16 h'r	cross	var.	rainy.
S. Storm King, S. 56° 37′ W. 80° 21′ *†	29.18	741.2				nw.			2		5		nw.	0	0	r'gh	w.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.01	762.2	82	27.8	91	sse.			3		1	sse.				3	sse.	blue sky
H. M. S. Tourmaline, N. 8° 40′, E. 71° 20′	29.85	758.2	85	29.4	72	wsw.			2		2	w.						d. clouds.
U. S. S. Enterprise, S. 29° 48′, E. 31° 38′ *	29.92	760.0	72	22.2	71	ene			1		2		calm			sm'h		clear.
U. S. S. Juniata, Bombay, India	29.79	756.7	86	30.0	100	ssw.			3		2			0	0			clear.
S. S. Galatia, Ismailia, Egypt*†	29.90	759.4	86	30.0		nnw.			3		0			0	0			clear.
S. S. Gordon Castle, S. 11° 57′, E. 143° 17′*	29.94	760.5	77.0	25.0	88	se.			5–6		6		se.					fair.
S. S. Malabar, N. 10° 30′, E. 95° 34′ *†	29.82	757.4				wsw.			6		10		sw.	14 h'r	14 h'r	h'vy	sw.	heavy rain.
S. Annie M. Law, S. 31° 00′ E. 34° 12′*†	30.00	762.0	71	21.7		nne.			2		8		n.	0	0	long	sw.	clearing.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 2, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.92	760.0	73.4	23.0	83	e.			1		3			0	0	pretty fair	Malaterre.
Algiers			29.93	760.2	73.0	22.8	76	e.			5		4			c	0	cloudy	Thève.
La Galle			29.98	761.4															Fonfrède.
Tunis			30.01	762.2															Jacques.
Saida			29.98	761.5	78.8	26.0	55												Pérès.
Tebessa			30.05	763.3	78.8	26.0	55	w.			3		4			0.008	0.2	cloudy	St. Martin.
Geriville					86.9	30.5	11	sw.			3		4			0	0	cloudy	Forfert.
Laghouat			30.03	762.7	92.5	33.6	14	s.			5		0			0	0	clear	Abraham.
Biskra			29.99	761.7	91.8	33.2	28	calm			0		3			0	0	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.02	762.5	53.0	11.7	77	w.	14	6.3			10 n			0.440	11.2	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.68	753.9	29.78	756.4	49.4	9.7	97	nne.	4	1.8			8			0.33	8.4	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.1	29.91	759.6	71.2	21.8	79	sw.			2		7			0.055	1.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.22	742.2	29.96	760.9	75.2	24.0	42	e.	6.9	3.1			2			0	0		Dr. Wierzbiski
Eperies	29.06	738.1	29.89	759.3	79.2	26.2	40	n.			2	cs	3 s		s.	0	0		Julius Mikolik.
Gratz	28.72	729.4	29.92	760.0	72.1	22.3	69	nw.			2		5			0.240	6.1		Andreas Rospini.
Hermannstadt	28.47	723.0	29.82	757.5	75.4	24.1	61	se.			4		7			0.051	1.3		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.62	726.9	29.89	759.3	75.6	24.2	60	ne.			1	1 c				0	0	clear	The Staff.
Lemberg	29.00	736.5	29.94	760.5	73.0	22.8	36	ne.			2		2			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29 82	757.5	29.89	759.3	73.0	22.8	60	nw.			2		3			0	0		I. R.Hydrographic Office.
Szathmar	29.41	747.0	29.86	758.4	81.0	27.2	40	n.			3		4			0	c		Joseph Midlinszky, S. J.
Szegedin	29.57	751.1	29.84	757.8	78.1	25.6	55	e.			1		7			0.913	23.2	lightning	Karl Stancel.
Trieste	29.82	757.5	29.92	760.0	79.2	26.2	50	e.			1		8			0	0		Royal Academy.
Vienna	29.27	743.5	29.96	761.0	75.4	24.1	53	ne.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.99	761.7	30.09	764.3	53.7	12.1	71	e.	10	4.5			6			0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.95	760.7	30.18	766.6	57.8	14.3	70	nne.	5	2.2			8					d. clouds	S. Ball.
Bidston, Liverpool Obs'y			30.15	765.8	59.8	15.4	72	wnw.	10	4.5			7					d. clouds	John Hartnup.
Bolton, Sharples	29.60	751.8	30.14	765.5	63.9	17.7	69	w.	6	2.7			5					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.71	754.6	30.11	764.8	63.5	17.5	57	sw.			1		5			0.01	0.3	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	30.06	763.5	30.09	764.3	84.0	28.9	71	ne.			1		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	30.02	762.5	30.12	765.0	75.0	23.9	46	n.			0.2		1					blue sky	John McLaren.
Chatham, School M. E.	29.98	761.5	30.10	764.5	69.9	21.1	58	ne.			1		4					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.92	760.0	30.14	765.5	59.3	15.2	71	se.			1		1					blue sky	The Staff.
Fort Napier, Natal	27.45	697.2	29.67	753.6	83.4	28.6	17	n.			1		2					blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	84.0	28.9	68	w.			1		5					d. clouds	J. W. Smith.
Galway, Queen's College	30.07	763.8	30.10	764.5	55	12.8	81	s.			1		8			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.87	758.7	29.92	760.0	72.5	22.5	91	e.			3		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.92	760.0	30.13	765.3	58.5	14.7	54	nw.			2		5					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.94	760.5	30.10	764.5	69.5	20.8	55	nw.			1		7					misty	The Staff.
Guernsey	29.82	757.4	30.12	765.0	61.5	16.4	80	ene.			1		0					foggy	A. Collenette, F. M. S.
Kew, Observatory	30.07	763.8	30.11	764.8	68.5	20.3	52	w.	4	1.8			3					d. clouds	The Staff.
Leicester, Museum	29.86	758.4	30.11	764.8	66.0	18.9	59	calm					5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.97	761.2	75.4	24.1	85	se.										blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.11	764.8	30.15	765.8	84.0	28.9	64	se.			2		5			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.61	752.1	30.13	765.3	64.7	18.2	61	w.			1		4					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.90	759.4	30.13	765.3	64.0	17.8	57	nw.			1		4					d. clouds	The Staff.
Plymouth	30.05	763.3	30.13	765.3	63.1	17.3	71	s.			3		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys	29.92	760.0	30.02	762.5	50.1	10.1	77						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.76	755.9	29.82	757.4	79.0	26.1	58	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.88	758.9	30.16	766.1	70.1	21.2	61	nnw.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.11	764.8	30.14	765.5	63.5	17.5	66	sw.			2		3			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.15	765.8	62.0	16.7	61	w.	8	3.6			6					raining	W. O. Carlisle.
Truro, Royal Institution	30.09	764.3	30.18	766.6	74	23.3	47	e.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.11	764.8	30.14	765.5	53.6	12.0	68	se.	4	1.8			10			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.64	752.8	30.03	762.7	75.9	24.4	56	s.	0.6	0.3		1 c		w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.33	770.4	30.37	771.4	50	10.0	57	nw.	12	5.4		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.30	769.6	30.43	772.9	53	11.7	50	nw.	10	4.5		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.32	770.1	30.51	774.9	51.6	10.9	88	w.			1	9 cs	0			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.35	770.9	30.40	772.1	53.0	11.7		w.			1		0			0.070	1.8	blue sky	H. A. Johnson.
Father Point, Quebec*	30.39	771.9	30.42	772.7	45	7.2	83	w.	8	3.6		0	2 s		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.36	745.7	30.22	767.6	33	0.6	68	n.	9	4.0		2 cs	0	n.		0	0	fair	James Stewart.
Fredericton, N. B	30.43	772.9	30.50	774.7	54.0	12.2	62	nw.	1	0.4		0	0			inap.	inap.	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	29.22	742.2	30.33	770.4	50.0	10.0	79	e.	2	0.9		0	0			0	0	fine	Jas. Grant.
Halifax, N. S*	30.26	768.6	30.39	771.9	55	12.8	57	ne.	14	6.3		0	0			0.022	0.6	clear	A. Allison.
Hamilton, Ontario	29.91	759.7	30.31	769.9	48.7	9.3	87	ne.			1	4 ck	0	ne.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	30.10	764.5	30.44	773.2	53	11.7	74	se.	2	0.9		8 c	0	w.		0	0.	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.20	767.1	30.24	768.1	50.2	10.1	70	nw.			6	7 k	0	nw.		0.15	3.8	d. clouds	C. H. Rigby.
London, Ontario	29.42	747.3	30.33	770.4	51.7	10.9	79	se.			1	0	0			0	0	blue sky	E. B. Reed.
Montreal, Quebec*	30.24	768.1	30.45	773.4	56	13.3	72	s.	6	2.7		3 ck	0	nw.		0	0	fair	C. H. McLeod, C. E.
Ottawa, Ontario	30.18	766.6	30.42	772.7	53.0	11.7	88	se.			2	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.64	752.8	30.34	770.6	54	12.2	72	se.	10	4.5		2 cs	2 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.66	753.4	30.39	771.9	55.7	13.2		calm			0	2 c	0			0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.66	753.4	30.36	771.1	51	10.6	79	ne.	6	2.7		0	0			0	0	clear	H Morgan.
Port Stanley, Ontario	29.66	753.4	30.30	769.6	56	13.3	64	e.	8	3.6		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	30.08	764.0	30.43	772.9	55	12.8	86	calm	0	0		0	0			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.90	759.4	30.37	771.4	47	8.3	86	calm	0	0		0	5 ks		nw.	0	0	fair	W. H. McIntyre.
St. Andrews, N. B.	30.38	771.6	30.43	772.9	55	12.8	68	n.	1	0.4		0	0			0	0	clear	
St. John, N. B	30.28	769.1	30.44	773.2	56.0	13.3	57	n.	9	4.0		0	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F.	29.84	757.9	30.09	764.3	55	12.8	87	sw.			1		10 n			0.07	1.8	overcast	J. Higgins.
St. Pierre, N. F.			30.04	763.0	45.7	7.6		w.			4					0	0		The Commandant.
Saugeen, Ontario*	29.58	751.3	30.30	769.6	52	11.1	64	s.	9	4.0		0	0			0	0	clear	
Stratford, Ontario	29.05	737.9	30.33	770.4	52.9	11.6	68	se.	10	4.5		2 cs				0	0	blue sky	C. J. Macgregor, M A.
Sydney, C. B*	30.17	766.3	30.23	767.8	49	9.4	66	nw.	22	9.8		0	5 k		nw.	0.04	1.0	fair	T. C. Hill, C. E.
Toronto, Ontario*	30.02	762.5	30.40	772.1	51	10.6	72	ne.	8	3.6		0	0			0	0	clear	Magnetic Observatory.
Windsor, N. S	30.29	769.4	30.38	771.6	53.0	11.7	67	n.	11	4.9		0	0			0	0	clear	Prof. W. R. Butler, M.A.
Woodstock, Ontario	29.35	745.5	30.41	772.4	56.6	13.7	89	e.	8	3.6		1 cs	0	e.		0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.38	771.6	30.45	773.4	52	11.1	83	calm	0	0		0	0			0.06	1.5	clear	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	29.88	758.9	29.91	759.7	63.0	17.2	82	w.	10.0	4.5			10			0	0	light haze	John Duthie
Springbok Fontein	28.09	713.5			51	10.6	93	sw.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kin-tchouang	29.65	753.2	29.76	756.0	75.9	24.4	31	calm			0		4			0	0		R. P. Deszurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.84	757.8	29.86	758.4	68.0	20.0	77	e.	6.3	2.8			10			0	0	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.08	764.0	30.13	765.2	71.4	21.9	39	sse.	9	4			0						Oversergent Fischer.
Fanoe	30.04	763.0	30.06	763.5	73.4	23.0	58	w.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.80	757.0	29.85	758.1	36.0	2.2	96	s.			2		10					raining	S. Kleinschmidt.
Jacobshavn, Greenland	29.80	757.0	29.85	758.2	40.3	4.6		calm			0		3						
Stykkisholm, Iceland	29.99	761.8	30.04	762.9	37.0	2.8	84	nw.			2		10					snowing	A. O. Thorlacius.
Thorshavn	29.77	756.1	29.79	756.7	51.1	10.6	94	w.	16	7			9					foggy	Overloerer Bergh.
Vestervig	29.98	761.5	30.07	763.8	68.9	20.5	54	ese.			2		5						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.75	755.7			95.9	35.5	20	e.	1.3	0.6		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.52	749.7	30.15	765.9	69.4	20.8	69	ne.			2	0	2 k		w.	0	0	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.52	749.8	30.07	763.8	68.4	20.2	59	ne.			1	0	2 k		sw.	0	0	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.89	759.1	29.97	761.1	81.7	27.6	52	nnw.			1		1		nw.	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.48	748.9	30.03	762.8	67.1	19.5	80	ne.			1		10 kn		nne.	0.110	2.8	covered	M. Saillard, Director.
Beauvais, Normal School	29.84	757.8	30.10	764.4	71.4	21.9	49	ne.			1		10		ene.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.09	738.8	29.96	761.0	69.8	21	97	ne.			1		10 cn		sw.	0.465	11.8	covered	M. Gobin, Director.
Bordeaux, Observatory	29.70	754.4	29.95	760.8	78.6	25.9	46	ene.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.45	748.0	29.98	761.5	75.2	24	46	nne.			1		n		nne.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.85	758.3	30.10	764.5	68.4	20.2	65	ne.			2		4		ne.	0	0		M. de Kermarès, Dir.
Caen, Normal School	29.99	761.8	30.06	763.6	61.9	16.6	77	nne.			2		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.63	752.7	29.95	760.6	70.0	21.1	77	w.			1		8			0.453	11.5	very cloudy.	M. Jadot, Director.
Charleville, Normal School	29.54	750.4	30.00	762.1	68.7	20.4	80	nne.			1		10			0.12	3.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.66	728.0	29.97	761.1	73.0	22.8	48	n.			2	0	5 k			0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.15	740.4	29.98	761.6	72.5	22.5	66	nw.			10		10		nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.3	30.03	762.7	63.1	17.3	93	wnw.			1		10 n	wnw.	wnw.	0.138	3.5	raining	Dr. Coulet, Director.
Gap, Normal School	27.47	697.8	29.91	759.7	73.4	23	52	n.			1	0	1 k		s.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.88	733.5	29.95	760.8	76.6	24.8	48	sw.			2		1		sw.	0	0		M. Klina, Director.
Grenoble, Normal School	29.20	741.7	29.95	760.6	73.0	22.8	62	nw.			2		csk		nw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.56	725.3	30.10	764.4	71.6	22	58	nw.			1	0	0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.97	761.1	30.23	767.9	71.6	22	60	n.					k		n.	0	0		M. Olltrault, Director.
Lescar, Normal School	29.40	746.7	29.94	760.4	79.7	26.5	40	ese.			3	0	3 k			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.95	760.7	30.05	763.3	77.0	25.0	45	se.			1		2	e.		0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.96	735.6	29.99	761.8	67.1	19.5	70	ene.			1		8		ssw.	0	0	stormy	M. André, Director.
Mans, Normal School	29.77	756.1	30.07	763.7	70.7	21.5	71	ne.			1		2		e.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.72	754.9	29.98	761.6	72.5	22.5	63	w.			1		0			0	0		M. Stephan, Director.
Montlouis	24.91	632.6	29.75	755.6	60.4	15.8	41	e.	9.4	4.2			8	e.		0.150	3.8		M. Cave for Dr. Fines.
Montpellier, Normal School	29.84	757.8	29.96	760.9	80.6	27	84	sw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.23	742.5	29.99	761.7	64.8	18.2	84	wnw.			1		kn			0	0	foggy	M. Hasse, Director.
Nantes, Observatory	29.90	759.4	30.07	763.8	78.6	25.9	36	ese.			0-1	0	2 k		ese.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.87	758.8	29.98	761.6	75.9	24.4	46	ne.	7.4	3.3			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.34	542.1			46.4	8.0		nw.			1		5		nw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.93	734.8	29.95	760.6	77.0	25	65	n.			1		2 n		n.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.23	640.8			52.9	11.6	80	ene.			2		5			0.004	0.1	¾ covered	M. Alluard.
Rochefort, Naval Obs'y	29.94	760.4	29.97	761.2	79.9	26.6	40	e.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.74	755.4	29.95	760.6	77.0	25	45	e.			4		2		e.	0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.88	708.2	29.94	760.5	75.0	23.9		nw.			1	0	1 k		ne.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.05	763.2	30.10	764.4	73.4	23	44	ssw.			1		2	nw.		0	0	slightly cl'dy	M. Mouillot, Dir.
Saint Maur, Observatory	29.91	759.6	30.07	763.7	69.8	21.0	49	nne.			2		7	ese.		0	0		M. Renou, Director.
Toulouse, Observatory	29.30	744.3	30.03	762.7	80.6	27.0	46	n.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.87	758.6	30.04	763.1	74.8	23.8	40	nne.			1		2	ese.	ne.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.59	751.5	30.08	764.0	68.7	20.4	47	n.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.79	756.7	29.94	760.5	80.1	26.7	47	e.	13.9	6.2		1 ck	0	sw.		0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.58	725.8	29.95	760.7	78.3	25.7	36	ne.			2		2	ne.		0	0		Prof. Jnedt.
Bamberg	29.14	740.2	29.99	761.7	75.6	24.2	46	ne.			2	0	2 ks			0	0		Prof. Dr. Hoh.
Berlin	29.91	759.8	30.05	763.3	78.8	26.0	28	e.			1		0			0	0		Dr. Sensch.
Breslau	29.55	750.5	30.08	764.0	74.5	23.6	33	ese.			1		1			0	0		Royal University Obs'y
Carlsruhe	29.52	749.7	29.95	760.8	79.9	26.6	46	nne.			1		2	ne.		0	0		Albert Senz.
Cassel	29.30	744.3	30.02	762.4	81.0	27.2	30	n.			1		4	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.96	761.0	80.1	26.7	42	n.			1		1			0	0		Physical Society.
Friedrichshafen	28.58	726.0	29.94	760.5	72.7	22.6	88	sw.			1		5	e.		0	0	hazy	Wilhelm, Chief Tel.
Hamburg	29.97	761.1	30.06	763.4	77.2	25.1	52	ese.			3		0			0	0		E. Preller.
Kiel	30.04	762.9	30.05	763.3	72.7	22.6	40	se.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.61	752.2	30.02	762.4	78.1	25.6	30	ene.			2		1			0	0		H. Leppig, Asst.
Magdeburg	29.84	758.0	30.02	762.6	81.0	27.2	36	ene.			1		3	ssw.		0	0		Weather Observatory.
Memel	30.09	764.2	30.13	765.4	63.5	17.5	49	nnw.			3		0					clear	Issermann.
Munich	28.18	715.8	30.04	763.1	71.8	22.1	52	e.			2		2	e.		0.047	1.2		Central Station.
Neufahrwasser	30.13	765.4	30.15	765.8	59.9	15.5	71	ne.			3		0			0	0		A. Lothes.
Neustadt, Palatinate	29.41	746.9	29.93	760.2	81.7	27.6	40	calm			0		3	e.		0	0		Dicknether.
Stuttgart	29.01	736.9	29.86	758.5	77.0	25.0	47	ne.			1		3	e.		0	0		Prof. Dr. Schoder.
Wustrow	30.11	764.7	30.13	765.4	77.2	25.1	36	e.			3	0	3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.49	749.0	29.85	758.3	84.0	28.9		sw.			2.5		1			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.58	751.4	29.63	752.7	88.9	31.6	77	w.	32.0	14.3			4		w.	0	0	d. clouds	
Deesa	29.11	739.3	29.55	750.6	106.8	41.6	22	wnw.	15.0	6.7			0			0	0	blue sky	
Bombay	29.73	755.2	29.77	756.1	86.0	30.0	77	ssw.	11.0	4.9			10		w.	0.58	14.7	overcast	
Poona, Yarrowda	27.97	710.4	29.85	758.2	70.8	21.6	93	w.	10.0	4.5			10			1.02	25.9	thnd'r storm	
Trichinopoly	29.49	749.1	29.76	756.0	98.0	36.7	37	ssw.	1.0	0.4			5	nne.	nne.	0	0	d. clouds	
Belgaum	27.26	692.3	29.80	756.8	74.3	23.5	82	e.	9.0	4.0			8	s.	w.	0.02	0.5	d clouds	
Lahore	28.74	730.1	29.44	747.7	108.3	42.4	22	calm	0	0			0			0	0	blue sky	
Roorkee	28.63	727.3	29.48	748.9	101.7	38.7	27	nw.	1.0	0.4			0			0	0		
Agra	28.97	735.7	29.50	749.2	107.6	42.0	15	s.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.57	725.0	29.57	751.0	97.2	36.2	26	sw.	18.0	8.0			8		w.	0	0	d. clouds	
Jubbulpore	28.23	717.1	29.52	749.8	103.5	39.7	18	nw.	6.0	2.7			3		nw.	0	0	d. clouds	
Lucknow	29.15	740.3	29.50	749.3	105.4	40.8	20	wnw.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.20	741.8	29.50	749.3	105.3	40.7	18	calm	0	0			0			0	0	blue sky	
Patna	29.35	745.5	29.53	750.0	97.5	36.3	28	nw.	2.9	1.3			5	nw.	nw.	0.04	1.0	d. clouds	
Hazaribagh	27.60	701.1	29.55	750.6	89.4	31.9	34	s.	4.6	2.1			10			0	0	overcast	
Cuttack	29.60	751.9	29.68	754.0	83.0	28.3	70	e.	8.0	3.6			10			0	0	overcast	
Calcutta, Alipore	29.58	751.2	29.60	751.8	88.4	31.3	73	sw.	12.0	5.4			7			0	0	d. clouds	
Dhubri	29.48	748.8	29.60	751.7	84.8	29.3	81	e.	10.5	4.7			0			0	0	blue sky	
Chittagong	29.57	751.1	29.66	753.4	80.7	27.1	84	calm	2.9	1.3			9			0	0	d. clouds	
Sibsagar	29.35	745.4	29.68	753.8	84.6	29.2	79	ne.	2.0	0.9			10	sw.	sw.	0	0	d. clouds	
Seypore	28.15	715.0	29.52	749.8	104.0	40.0	23	nw.	5.2	2.3			1		nw.	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	29.96	761.0	29.98	761.6	81.8	27.7	71	wsw.	5.8	2.6			3	se.		0	0	d. clouds	
Bellary	28.24	717.3			94.8	34.9	35	sw.	12	5.4		4 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.55	750.5	29.94	760.5	77.9	25.5	56	se.	0.7	0.3			3			0.256	6.5		Prof. Giovanni Clodig.
Milan	29.48	748.7	29.98	761.4	74.8	23.8	52	sw.					7	nne.		0	0		Prof. G.V. Schiaparelli
Padua	29.83	757.7	29.94	760.4	76.3	24.6	48	wsw.	1.3	0.6			3	ne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.08	738.7	29.96	761.0	73.4	23.0	73	nnw.	3.1	1.4			6	se.		0.161	4.1		Prof. F. F. Denza.
Genoa	29.82	757.4	30.01	762.2	68.9	20.5	66	sw.	4.3	1.9			6	s.		0	0		Prof. G. M. Garibaldi
Mondovi	28.09	713.4	29.95	760.6	70.3	21.3	62	n.			2		2			0.035	0.9		Prof. D. C. Bruno
Pesaro	29.85	758.3	29.90	759.5	71.6	22.0	82	n.	9.8	4.4			10			0	0		Prof. Luigi Guidi.
Florence	29.72	755.0	29.97	761.3	75.9	24.4	57	w.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.87	758.8	29.96	760.9	70.9	21.6	69	w.	3.1	1.4			1	ssw.		0	0		Prof. P. Monte
Rome	29.80	757.0	29.97	761.3	73.4	23.0	59	wsw.	15.0	6.7			6	w.		0	0		Prof. P. Tacchini.
Lecce	29.71	764.5	29.95	760.7	72.0	22.2	60	ne.	8.1	3.6			5	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.10	739.2	29.96	760.9	78.1	25.6	69	sw.	3.1	1.4			2	w.		0	0		Prof. D. Conti.
Cagliari	29.77	756.1	29.95	760.8	72.7	22.6	60	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.78	756.4	30.03	762.7	70.9	21.6	51	ne.	9.4	4.2			1			0	0		Prof. G. Caccialore.
Syracuse	29.91	759.8	29.96	760.9	75.6	24.2	59	nne.	1.3	0.6			0			0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R.	29.50	749.2	30.01	762.2	67.3	19.6	80	s.	0.7	0.3			9	s.		0	0		Prof. F. Brioschi.
Stelvio	22.26	565.3			45.9	7.7	71	e.			2		10			0.122	3.1	covered	Prof. P. F. Denza.
Valdobbia	22.28	566.0			47.5	8.6	73	e.			1		10			0	0	covered	Prof. P. F. Denza
JAPANESE.																			
Akita	29.36	745.7	29.39	746.6	55.5	13.1	87	nw.			4		10 ckn		s.	1.449	36.8	raining	H. Hattori.
Awomori	29.29	743.9	29.32	744.7	53.3	11.8	93	n.	2.3	1.0			10s;ks		w.	0.888	22.5	overcast	K. Ogawa
Hamamatsu	29.54	750.3	29.57	751.0	63.3	17.4	65	nnw.			4	0	0			0	0	clear	Y. Sekigawa.
Kanazawa	29.52	749.9	29.62	752.4	60.0	15.6	70	sw.	17.1	7.6			10			0.150	3.8	raining	S. Endo.
Kagoshima	29.74	755.3	29.75	755.6	64.0	17.8	59	nnw.			2	0	4 s			0	0	fair	G. Miyanonaga.
Kioto	29.47	748.5	29.64	752.9	59.5	15.3	84	ene.	1.2	0.5		0	1ck;s		sw.	0	0	clear	M. Tojima.
Kochi	29.62	752.5	29.65	753.0	64.5	18.1	76	nw.	1.9	0.8		0	0			0	0	clear	K. Kusunose.
Miasaka	29.67	753.6	29.70	754.3	65.0	18.3	60	w.			2	1 cs	2 s	w.	w.	0	0	fair	K. Masusaki.
Miyako	29.20	741.6	29.31	744.4	58.0	14.8	55	w.	10.4	4.6		1 ck	0			0.953	24.2	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.56	750.8	29.76	755.9	60.9	16.1	77	w.	1.2	0.5		0	1 s			0	0	clear	S. Takehayashi.
Niigata	29.46	748.3	29.49	749.0	57.5	14.2	80	wsw.	26.0	11.6			10 k		wsw.	0.345	8.8	cloudy	M. Morita.
Nobiru	29.37	746.0	29.39	746.4	57.7	14.3	73	nw.	4.7	2.1		0	0			0.120	3.0	clear	H. Midzushima
Numazu	29.41	747.0	29.44	747.9	67.0	19.4	61	ssw.			7	1 ck	0			0.020	0.5	clear	R. Kaneda.
Osaka	29.60	751.9	29.62	752.3	61.6	16.4	54	n.	1.7	0.7		0	0			0	0	clear	H. Omura.
Sakai	29.65	753.2	29.66	753.4	59.6	15.3	73	wsw.			2	0	0			0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	29.32	744.7	29.39	746.5	66.0	18.9	81	w.	4.9	2.1		0	2 s		sw.	0	0	fair	The Staff.
Wakayama	29.58	751.4	29.63	752.7	64.9	18.3	61	nw.	0.3	2.8		0	0			0	0	clear	K. Sakai.
Shimonoseki	29.58	751.4	29.73	755.1	60.1	15.6	75	sw.			2	0	3 s		sw.	0	0	fair	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	75	23.9	66	ese.	14.0	6.3		0	1 k			0	0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.73	602.8	29.96	760.8	60.3	15.7	77	nne.	inap.	inap.		0	1 k		n.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.06	763.5	58.3	14.6	83	wnw.	0.9	0.4		5 c	0			0	0	fair	Prof. M. Leal.
Mazatlan	29.70	754.5	29.96	761.0	73.0	22.8	98	e.	1.6	0.8			10 n		n.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					71	21.7	76	n.	10.3	4.6		1 c	1 k	e.	e.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.11	764.8	30.11	764.8	67.3	19.6		n.			3					0	0		
Groningen	30.00	761.9	30.05	763.3	68.2	20.1		n.			2					0.028	0.7		
Helder	30.10	764.5	30.10	764.5	60.8	16.0		nnw.			3					0	0		
Hellevoetsluis	30.10	764.6	30.10	764.6	68.4	20.2	47	n.			3					0	0		
Utrecht	30.07	763.7	30.11	764.9	71.2	21.8	68	nnw.			2		5			0.272	6.9	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.91	759.7			80.2	26.8	77	ne.	0	0			5			0	0		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.97	761.3	30.04	762.9	61.5	16.4	52	s.	20	9			10			0	0		
Brono	29.94	760.5	29.98	761.5	65.1	18.4	67	ne.			2		5			0	0		
Christiania	29.95	760.8	30.10	764.4	65.7	18.7	40	wsw.	9	4			10			0	0		
Hjæsvær	30.21	767.2	30.23	767.8	49.1	9.5		calm			0		0						
Lodingen	30.05	763.3	30.10	764.5	60.3	15.7	47	ne.			2		1			0	0		
PORTUGUESE.																			
Angra, Azores	29.92	759.9	30.08	763.9	57.7	14.3	82	nw.	13.6	6.1			9			0	0		Dr. J. A. Sampaio.
Campo Major	28.86	733.1	29.83	757.6	75.9	24.4	49	sse.	4.3	1.9			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.95	760.7	30.04	762.9	66.0	19.2	69	se.	4.3	1.9			6			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.54	750.4	29.87	758.7	65.8	18.8	66	ssw.	5.6	2.5			9			0	0		The Staff.
Ponta Delgada, Azores	29.97	761.3	30.04	763.1	62.0	17.0	73	nnw.	17.4	7.8			3			0.106	2.7		
Saint Paul de Loando	29.78	756.4	29.98	761.5	76.1	24.5	83	w.			1		1	ne.		0	0		
San Salvador	28.12	714.2	29.95	760.8	77.5	25.3	68	s.			2		5			0	0		
Serra da Estrella	25.19	639.7	29.79	756.6	58.8	14.9	64	ese.	25.5	11.4			2						
RUSSIAN.																			
Akmolinski	28.37	720.6	29.41	746.9	62.2	16.8	84	wsw.	11	5			10 n			0.071	1.8		Major K. Lasarew.
Archangel	30.22	767.7	30.24	768.2	70.2	21.2	32	sse.	2	1		0	0			0	0		Capt. Sseliwerstow.
Ashurada	29.95	760.8	29.86	758.4	78.8	26.0	79	wnw.	11	5		0	2 k			0	0		
Astrakhan	29.83	757.6	29.74	755.5	79.5	26.4	27	w.	25	11		0	6 k			0	0		Capt. Wisganow.
Baku	29.95	760.6	29.90	759.4	73.9	23.3	65	n.	13	6		0	1 ks			0	0		
Barnaul	28.95	735.4	29.43	747.5	63.3	17.4	90	sw.	13	6			10			1.283	32.6		Meteorological Obs'y
Bielosersk	29.67	753.6	30.13	765.2	63.7	17.6	40	ne.	11	5		0	0			0	0		
Dorpat	29.85	758.3	30.09	764.2	71.1	21.7	38	n.	7	3		0	1 k			0	0		Observatory.
Ekaterinburg	29.04	737.5	30.01	762.2	42.8	6.0	59	n.	18	8		0	8 kn			inap.	inap.		Meteorological Obs'y
Elisawetgrad	29.56	750.9	30.00	761.9	72.3	22.4	39	nw.	9	4		0	4 k			0	0		
Irkutsk	28.00	711.2	29.53	750.0	77.4	25.2	39	calm			0		0			0	0		
Kasalinsk	29.31	744.5	29.49	749.0	76.0	24.8	62	w.*	9	4		10 c	0						
Kasan	29.63	752.6	29.91	759.6	43.3	6.3	84	ne.	13	6			10 n			0.055	1.4	raining	Observatory.
Kem	30.19	766.9	30.24	768.2	58.5	14.7	55	e.	18	8		0	0			0	0		
Kertch	30.08	764.1	30.11	764.7	72.7	22.6	68	calm	0	0		0	2 k			0	0		Lagorio & Sustyrea.
Kieff	29.35	745.4	29.96	761.0	69.8	21.0	46	n.	7	3		0	4 k;ks			0	0		Observatory.
Koslov	29.34	745.1	29.87	758.7	50.0	10.0	96	nnw.	13	6			10 n			0.004	0.1	raining	
Libau	30.09	764.3	30.11	764.9	57.4	14.1	72	nnw.	11	5			0			0	0		E. Quaas.
Lugan	29.63	752.5	29.81	757.1	66.6	19.2	53	wnw.	18	8			9			0	0		Meteorological Obs'y
Moscow	29.49	749.1	29.96	761.0	59.5	15.3	56	e.	7.8	3.5			10 ks			0.012	0.3		Meteorological Obs'y
Nikolaiev	29.91	759.8	29.99	761.7	76.1	24.5	50	ne.	4	2		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.82	757.5	29.91	759.7	36.7	2.6	85	n.	7	3			10			0.039	1.0		Iwanow.
Pekin, China	29.47	748.4	29.61	752.0	75.4	24.1	37	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.47	748.6	29.80	756.9	89.2	31.8	29	sw.	2.2	1.0		0	6 k			0	0		
Petrozavodsk	29.97	761.1	30.15	765.9	65.7	18.7	36	se.	11	5		0	1 s			0	0		Dr. Bergmann.
Pinsk	29.53	750.1	30.01	762.3	74.1	23.4	58	se.	9	4		0	7 n			0.004	0.1		
Poti	29.87	758.8	29.91	759.6	76.5	24.7	80	nw.	4	2		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
St. Petersburg	30.10	764.5	30.12	765.1	67.8	19.8	33	ene.	7	3		1 ck	0			0	0		Central Physical Obs'y.
Samarkand	27.49	698.2	29.80	757.0	85.1	29.5	41	calm	0	0		0	0			0	0		
Semipalatinsk	28.82	732.0	29.48	748.9	64.6	18 1	84	sw.	20	9			9			0.189	4.8		Major Lasarew
Sevastopol	29.73	755.1	29.95	760.6	75.0	23.9	49	wsw.	11	5		0	1 ks			0	0		
Staroi Bykhov	29.60	751.9	30.04	763.1	72.1	22.3	37	ne.	20	9			10kn			0	0		
Tashkend	28 25	717.6	29.81	757.1	85.3	29.6	28	calm	0	0		0	1 s			0.118	3.0		Terch, A. M.
Tiflis	28.47	723.1	29.80	756.9	85.8	29.9	21	w.	4	2		0	4 k			0	0		Physical Observatory.
Vernoe	27.39	695.8	29.78	756.4	74.5	23.6	58	sw.	2	1		0	3 k			0.236	6.0		
Viatka	29.40	746.7	30.02	762.5	55.8	13.2	41	ene.	4	2			0			0	0		
Warsaw	29.62	752.3	30.02	762.5	77.0	25.0	38	ne.	2	1		0	5 k			0	0		Astronomical Obs'y.
Yeniseisk	29.32	744.8	29.61	752.0	44.4	6.9	93	nw.	2	1			10			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.18	766.6	52	11.1	93	nw.			4	5	3	nw.		0	0	cloudy	J. Youngclauss
North Unst			29.89	759.2				w.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.90	759.4	30.00	762.0	74.5	23.6	63	s.	4.0	1.8		0	0			0	0	clear.	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.83	757.6	29.89	759.1	73.2	22.9	50	se.	2.5	1.1		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.98	685.4	29.77	756.2	80.2	26.8	38	ne.	8.1	3.6		0	2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.69	703.4	29.79	756.7	82.9	28.3	40	se.	11.2	5.0		0	2			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.78	756.4	29.92	760.0	76.6	24.8	58	ene.	7.2	3.2		3	4		wsw.	0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.09	738.9	29.97	761.1	58.1	14.5	84	n.	10.5	4.7		8 n	6 n	s.	s.	0.232	5.9	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.90	734.0	29.76	755.8	73.6	23.1	61	calm	0	0			2			0	0	light clouds	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	762.0	30.07	763.7	80.0	26.7	75	e.	4.5	2.0		1 c;cs	k	s.	e.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	757.0	29.85	758.3	81.8	27.7	84	sw.	26.4	11.8		0	4 kn			0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.75	755.7	29.85	758.1	76.1	24.5	64	sw.	5.8	2.6			10		sw.	0.003	0.1		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.6	30.08	763.9	82.4	28.0	79	calm	0	0		0	4kn		sw.	0.256	6.5		Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.13	765.4	30.17	766.4	66.2	19.0	59	s.			4		2			0	0		
Umea	30.12	765.1	30.17	766.4	70.2	21.2	61	s.			2		5			0	0		
Hernosand	30.17	766.2	30.22	767.5	65.8	18.8	39	s.			2		2			0	0		
Stockholm	29.97	761.3	30.15	765.8	71.6	22.0	39	e.			2		0			0	0		
Wisby	30.03	762.8	30.09	764.3	52.5	11.4	81	n.			2		0			0	0		
Sub-series.																			
Upsala	30.04	762.9	30.12	765.1	72.0	22.2	31	ese.	5.6	2.5			1			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.58	725.8	29.96	760.9	70.0	21.1	57	ne.			4		6			0	0	cloudy	The Observatory.
TURKISH.																			
Constantinople			29.88	759.0	71.4	21.9	68	n.	16	7.0			0			0	0		The Observatory.
Valona			30.10	764.6	74.7	23.7		w.			1		2					rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.86	758.5	81.9	27.7	69	nw.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.70	678.2			63	17.2	84						10 n		ne.	1.55	39.4	rainy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.41	772.4	30.49	774.4	61	16.1	60	se.	3	1.3		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.58	751.3	30.23	767.8	52	11.1	72	se.	6	2.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	29.88	758.9	38	3.3	59	e.	6	2.7		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.21	691.1	30.00	762.0	41	5.0	76	ne.	10	4.5		0	9 s		nw.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.10	739.1	30.25	768.3	67.0	19.4	55	e.	12	5.4		0	8 k		e.	0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.43	772.9	30.44	773.2	61	16.1	84	ne.	5	2.2		0	hz.			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.10	764.5	30.29	769.4	68.5	20.3	54	ne.	7	3.1		0	1 s			0	0	clear	John Healy.
Baltimore, Maryland	30.41	772.4	30.46	773.7	64	17.8	73	ne.	4	1.8		0	0			0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.42	772.7	30.44	773.2	59.0	15.0	78	e.	8	3.6		1 k	0			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	30.14	765.5	30.16	766.1	36.3	2.4		n.	1	0.4		0	9 n		nw.	0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.58	725.9	30.12	765.0	42.0	5.6	76	n.	0	2.7		6 c	3 s			0.01	0.3	cloudy	A. Pritchard.
Benton, Fort, Montana	27.22	691.4	29.99	761.7	46	7.8	71	calm	0	0		0	8 s			0	0	fair	S. Wheaton.
Billings, Montana	26.86	682.2	30.00	762.0	43	6.1	76	ne.	1	0.4		0	5 s		n.	0	0	fair	T. Gibson.
Bismarck, Dakota	28.36	720.3	30.12	765 0	41	5.0	82	ne.	3	1.3		3 c	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.46	773.7	30.49	774.4	55	12.8	86	ne.	12	5.4		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.21	691.1	29.99	761.7	53	11.7	80	calm	0	0		0	8 s			0	0	cloudy	J. Kenealy.
Boston, Massachusetts	30.34	770.6	30.49	774.4	65.0	18.3	54	ne.	4	1.8		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	81.0	27.2	88	s.	12	5.4		0	3 s		s.	0	0	clear	E. C. Imlay.
Buffalo, New York	29.63	752.6	30.37	771.4	57.9	14.4	54	ne.	3	1.3		0	sk.			0	0	clear	W. Finn.
Buford, Fort, Dakota	28.22	716.8	30.18	766.6	30	— 1.1	80	sw.	1	0.4		0	0			0	0	clear	A. Schneider.
Burlington, Vermont	30.18	766.6	30.47	773.9	54.0	12.2	80	s.	4	1.8		5 cs	0	w.		0	0	fair	D. N. Farnell.
Cairo, Illinois	29.73	755.1	30.12	765.0	65.6	18.7	70	s.	2	0.9		8 c	0	w.		0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	30.35	770.9	30.37	771.4	62.0	16.7	72	ne.	24	10.7			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.40	772.1	30.43	772.9	63.0	17.2	68	ne.	7	3.1		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.46	748.3	30.14	765.5	46	7.8	83	n.			1	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	76	24.4	85	ne.	12	5.4		0	9 k		e.	0.08	2.0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.12	765.0	30.17	766.3	67.0	19.4	73	n.	11	4.9		0	8 ks		n.	0.67	17.0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.46	748.3	30.29	769.4	64.5	18.1	56	ne.	8	3.6		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.42	747.3	30.23	767.8	72.0	22.2	68	s.	7	3.1		3 k	0	sw.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.14	613.1	29.88	758.9	41.1	5.1	92	sw.	0	2.7			10 s			0.17	4.3	cloudy	E. McGovern.
Chicago, Illinois	29.43	747.5	30.12	765.0	61.9	16.6	63	se.	7	3.1		4 c	0			0	0	fair	John Laurens.
Chincoteague, Virginia	30.38	771.6	30.40	772.1	62	16.7	72	e.	8	3.6		3 c	0	w.		0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.58	751.3	30.23	767.8	60.0	15.6	75	e.	2	0.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.54	750.3	30.27	768.8	57.3	14.1	89	se.	12	5.4		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.16	715.3	29.91	759.7	70	21.1	84	se.	4	1.8		2 c	0			0.18	4.6	clear	T. J. Kenan.
Columbus, Ohio	29.40	746.7	30.24	768.1	58	14.4	64	e.	5	2.2		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.02	711.7	29.90	759.4	70.0	21.1	90	se.	4	1.8		5 cs	0			1.20	30.5	fair	J. McGlone.
Davenport, Iowa	29.33	745.0	29.97	761.2	62	16.7	78	s.	10	4.5		8 cs	hz.	w.		0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.85	758.2	62	16.7	56	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.30	718.8	30.04	763.0	50	10.0	74	sw.	4	1.8		7 ck	0			0	0	fair	D. Moore.
Deadwood, Dakota	25.45	646.4	29.89	759.2	43	6.1	71	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.41	772.4	30.43	772.9	57	13.9	93	ne.	13	5.8		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.83	630.7	29.87	758.7	46.0	7.8	80	calm	0	0		4 c	0			0.13	3.3	fair	F. M. Neal.
Des Moines, Iowa	28.91	734.3	29.79	756.7	61	16.1	87	s.	5	2.2			10 s		s.	0.03	0.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.57	751.1	30.26	768.6	55.0	12.8	74	e.	5	2.2		0 s	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.43	696.7	29.94	760.5	53	11.7	86	n.	14	6.3		0	6 k		w.	inap.	inap.	fair	D. J. Carr.
Dubuque, Iowa	29.28	743.7	29.97	761.2	61.7	16.5	72	se.	8	3.6			10 s		s.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.27	743.4	30.00	762.0	49	9.4	93	ne.	10	4.5			10 n		ne.	1.12	28.4	light rain	N. B. Conger.
Eagle Pass, Texas	29.16	740.7	29.95	760.7	77.3	25.2	68	se.	8	3.6		0	0			0.06	1.5	clear	F. Belford.
Eagle Rock, Idaho	25.32	643.1	29.90	759.4	45	7.2	86	sw.	9	4.0		5 ck	0	sw.		0.01	0.3	fair	H. R. Boynton.
Eastport, Maine	30.38	771.6	30.45	773.4	56.0	13.3	62	n.	8	3.6		0	0			0	0	clear	D. O. Murphy.
Elliott, Fort, Texas	27.31	693.7	29.98	761.5	51	10.6	66	ne.	12	5.4		0	0			0.14	3.6	clear	W. J. Cundall.
El Paso, Texas	26.30	668.0	29.89	759.2	65.7	18.7	18	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.60	751.8	30.32	770.1	60	15.6	54	se.	20	8.9		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.43	747.5	30.08	764.0	54.0	12.2	67	s.	10	4.5			10 s			0	0	cloudy	George Heathcote.
Galveston, Texas	30.01	762.2	30.05	763.3	78	25.6	90	sw.	8	3.6		0	9 ks		s.	0.06	1.5	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.52	749.8	30.17	766.3	62.4	16.9	60	se.	8	3.6		4 c	0			0	0	fair	J. E. Mueller.
Grant, Fort, Arizona	25.30	642.6	29.84	757.9	56.4	13.6	37	e.	4	1.8		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	30.24	768.1	30.26	768.6	66	18.9	100	ne.	24	10.7			10 n		ne.	0.49	12.4	heavy rain	R. M. Crawford.
Helena, Montana	25.81	655.6	29.93	760.2	42	5.6	100	w.	7	3.1			10 n			0.07	1.8	light rain	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.69	728.7	30.03	762.7	44.7	7.1	69	n.	17	7.6			10 s			inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.36	745.7	30.14	765.5	63.0	17.2	56	se.	7	3.1		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.97	761.2	30.00	762.0	78.2	25.7	92	s.	10	4.5		4 k	0	s.		inap.	inap.	fair	I. A. Reed.
Jacksonville Florida	30.15	765.8	30.19	766.8	74.5	23.6	71	ne.	8	3.6		2 cs	3 k		ne.	0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.58	700.5	30.01	762.2	42	5.6	60	calm	0	0		0	3 s			0	0	clear	W. B. Lamar.
Keokuk, Iowa	29.34	745.2	29.98	761.5	61.0	16.1	84	se.	4	1.8			10 s		se.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.05	763.3	30.07	763.8	82.0	27.8	74	e.	3	1.3		2 cs	4 ks	sw.	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.33	770.4	30.35	770.9	62	16.7	87	ne.	23	10.3			10 n		ne.	inap.	inap.	light rain	H. Mc P. Baldwin
Knoxville, Tennessee	29.24	742.7	30.25	768.3	65.5	18.6	72	ne.	1	0.4		0	sk.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.88	758.9	65	18.3	58	se.	14	6.3			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.98	736.1	29.85	758.2	62	16.7	87	se.	9	4.0			10 s		sw.	1.04	26.4	cloudy	A. W. Brown.
Lewiston, Idaho	29.23	742.4	30.05	763.3	52.0	11.1	76	se.	1	0.4		6 k	3 s	sw.		0	0	cloudy	H. S. Blandford.
Little Rock, Arkansas	29.72	754.9	30.02	762.5	67	19.4	84	calm	0	0			10 k			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.72	754.9	30.11	764.8	55	12.8	93	ne.	4	1.8			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.59	751.6	30.14	765.5	62	16.7	78	e.	3	1.3		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.70	754.4	30.37	771.4	63	17.2	68	ne.	1	0.4		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.50	749.3	30.14	765.5	61.0	16.1	56	s.	10	4.5		0	3 s		s.	0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.20	767.1	30.22	767.6	67.0	19.4	100	ne.	26	11.6			10 n		ne.	1.17	29.7	light rain	William Daly.
Maginnis, Fort, Montana	25.62	650.7	29.95	760.7	40	4.4	59	e.	8	3.6			10 s		e.	0	0	cloudy	F. Burke.
Marquette, Michigan	29.29	744.0	30.01	762.2	59	15.0	60	sw.	16	7.2			10 s		sw.	0.01	0.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.75	755.6	30.08	764.0	67	19.4	73	se.	1	0.4		5 cs	0	sw.		0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.39	746.5	30.13	765.3	55	12.8	74	s.	7	3.1		9 cs	0	sw.		0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.77	679.9	30.03	762.7	52	11.1	69	se.	9	4.0		3 cs	4 ks	e.	se.	0	0	fair	J. H. Young.
Mobile, Alabama	30.08	764.0	30.12	765.0	72.6	22.6	88	n.	2	0.9		1 c	0	w		0	0	clear	C. A. Read.
Montgomery, Alabama	29.89	759.2	30.12	765.0	71.5	21.9	79	e.	12	5.4		hz	3 k		sw.	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.12	739.6	30.09	764.3	37	2.8	82	n.	20	8.9		5 cs	0	n.		inap.	inap.	fair	H. White.
Mt. Washington, N. H.	24.22	615.2	30.34	770.6	37.0	2.8	87	e.	2	0.9		1 c	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.58	751.3	30.14	765.5	62.5	16.9	86	e.	4	1.8		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.36	771.1	30.47	773.9	59	15.0	65	ne.	10	4.5		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.47	773.9	30.52	775.2	66	18.9	45	e.	4	1.8		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.06	763.5	30.11	764.8	74.0	23.3	94	e.	2	0.9		7 cs	fg.			0	0	fair	M. Herman.
New York, New York	30.31	769.9	30.48	774.2	61	16.1	60	ne.	13	5.8		0	hz.			0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.33	770.4	30.36	771.1	63	17.2	68	e.	10	4.5		0	9 s			0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.16	689.9	29.96	761.0	48.6	9.2	91	nw	10	4.5			10 s			0.86	21.8	cloudy	E. F. Brady.
Olympia, Washington T'y	30.12	765.0	30.16	766.1	44.0	6.7	76	sw.	4	1.8			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.72	729.5	29.86	758.4	60.5	15.8	90	w.	3	1.3			10 s		sw.	3.01	76.5	cloudy	A. Pollak.
Ooglaamie, Alaska	29.78	756.4	29.79	756.7	26.0	− 3.3	100	nw.	9	4.0			10 s			inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	30.10	764.5	30.42	772.7	55.5	13.1	77	se.	6	2.7		4 c	0			0	0	fair	J. G. Linsley.
Palestine, Texas	29.50	749.3	30.04	763.0	74.0	23.3	90	s.	12	5.4			10 ks		sw.	inap.	inap.	cloudy	J. W. Byram.
Pensacola, Florida	30.09	764.3	30.12	765.0	74.2	23.4	82	n.	4	1.8		2 c	0	w.		0.16	4.1	clear	M. McGauran.
Philadelphia, Pa	30.36	771.1	30.46	773.7	62.5	16.9	78	ne.	6	2.7		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.86	453.6	29.68	753.9	20	− 6.7	80	nw.	36	16.1		1 cs	0	nw		inap.	inap.	clear	H. Hall.
Pioche, Nevada	24.09	611.9	29.89	759.2	50.0	10.0	50	nw.	4	1.8		0	0			inap.	inap.	clear	F. R. Day.
Pittsburg, Pennsylvania	29.55	750.6	30.34	770.6	55.0	12.8	77	calm	0	0		0	0			0	0	clear	W. A. Reid.
Poplar River, Montana	27.83	706.9	29.93	760.2				ne.			4	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.58	751.3	30.24	768.1	51.8	11.0	72	se.	4	1.8		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.43	772.9	30.48	774.2	60	15.6	58	n.	5	2.2		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.04	763.0	30.11	764.8	50.2	10.1	77	calm	0	0		10 cs	0	nw.		0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					68	20.0	100	ne.	32	14.3			10 n			2.01	51.1	heavy rain	F. P. Chaffee.
Prescott, Arizona	24.84	630.9	29.86	758.4	45.0	7.2	48	sw.	3	1.3		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.46	773.7	30.49	774.4	60	15.6	60	ne.	6	2.7		0	1 s			0	0	clear	O. N. Kitchel.
Punta Rassa, Florida	30.08	764.0	30.08	764.0	74.5	23.6	82	ne.	6	2.7		3 ck	0	ne.		0.45	11.4	clear	W. J. Evans.
Red Bluff, California	29.76	755.9	30.11	764.8	56	13.3	69	se.	5	2.2		5 ck	0	s.		0	0	fair	J. R. Williams.
Rochester, New York	29.74	755.4	30.39	771.9	54	12.2	74	s.	8	3.6		3 c	hz.			0	0	clear	E. W. McGann.
Roseburg, Oregon	29.61	752.1	30.16	766.1	45.2	7.3	83	ne.	1	0.4		8 k	0	w.		0	0	cloudy	J. J. Nanry.
Sacramento, California	30.05	763.3	30.12	765.0	51.0	10.6	86	s.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.46	748.3	30.06	763.5	60.7	15.9	93	se.	6	2.7		7 c	0			0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.70	754.4	29.74	755.4	39	3.9	89	nw.	4	1.8		0	8 ks		nw.	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.01	736.8	29.85	758.2	60.0	15.6	87	e.	2	0.9			10 n		se.	1.12	28.4	light rain	P. F. Lyons.
St. Vincent, Minnesota	29.32	744.7	30.17	766.3	34	1.1	88	n.	1	0.4		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.70	652.8	29.92	760.0	58	14.4	40	calm	0	0		4 k	0	sw.		inap.	inap.	fair	J. Craig.
San Antonio, Texas	29.31	744.5	29.99	761.7	74	23.3	84	se.	1	0.4		0	0			0	0	clear	J. H. Davis.
San Diego, California	29.99	761.7	30.06	763.5	61.1	16.2	81	n.	6	2.7			10 s		nw.	inap.	inap.	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.44	773.2	30.47	773.9	59.0	15.0	70	e.	7	3.1		0	0			0	0	clear	B. A. Blundon.
Sanford, Florida	30.10	764.5			74	23.3	94	ne.	8	3.6		0	8 ks		ne.	inap	inap.	cloudy	J. B. Marbury.
San Francisco, California	30.08	764.0	30.15	765.8	51.5	10.8	80	w.	14	6.3		0	3 s		nw.	0.01	0.3	cloudy	N. Gorom.
Santa Fé, New Mexico	23.34	592.8	29.84	757.9	51	10.6	34	s.	8	3.6		2 c	0	w.		0	0	clear	H. U. Jones.
Savannah, Georgia	30.13	765.3	30.22	767.6	68	20.0	72	n.	7	3.1		0	0			inap.	inap.	clear	H. W. Ford.
Shaw, Fort, Montana	26.42	671.1	29.99	761.7	45	7.2	76	w.	3	1.3		0	9 s		w.	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	73.0	22.8	90	s.	4	1.8			10 ks		s.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.70	729.0	29.90	759.4	73.5	23.1	96	s.	6	2.7		0	6 ks		s.	0.02	0.5	fair	W. M. Mattingly.
Sitka, Alaska	29.68	753.9	29.74	755.4	49	9.4	63	e.	12	5.4			10 s		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.57	751.1	30.03	762.7	65.5	18.6	100	calm	0	0			10 n			0.67	17.0	heavy rain	J. B. Campbell.
Smithville North Carolina	30.11	764.8	30.15	765.8	65	18.3	90	ne.	20	8.9			10 n		ne.	inap.	inap.	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.07	763.8	53	11.7	74	s.	10	4.5		2 c	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.39	746.5	30.06	763.5	61	16.1	69	s.	7	3.1		6 c	0	w.		0	0	fair	T. B. Jennings.
Starkville, Miss	29.68	753.9	30.15	765.8	69	20.6	78	e.	5	2.2		0	0			0	0	clear	C. Dill.
Stockton, Fort, Texas	26.95	684.5	29.87	758.7	65	18.3	78	sw.	5	2.2		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.26	692.4	29.89	759.2	51	10.6	48	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.54	750.3	30.22	767.6	59	15.0	60	e.	2	0.9		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.59	700.8	29.89	759.2	56	13.3	42	s.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.70	754.4	29.72	754.9	40	4.4	82	nw.	16	7.2			10 s			0.17	4.3	threatening	Samuel Applegate.
Verde, Fort, Arizona					50	10.0	30	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.85	758.2	30.10	764.5	70.0	21.1	81	se.	8	3.6		4 c	2 s		se.	0	0	fair	James Kenealy.
Visalia, California	29.70	754.4	30.06	763.5	56.0	13.3	70	nw.	5	2.2		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.52	622.8	29.90	759.4	44.0	6.7	86	nw.	3	1.3		0	8 k			0.02	0.5	cloudy	T. M. Ambler.
Washington, D. C.	30.34	770.6	30.45	773.4	62.8	17.1	69	ne.	1	0.4		0	hz.			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.17	664.7	29.94	760.5	48.5	9.2	68	n.	8	3.6		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.85	758.2	30.45	773.4	54	12.2	70	calm	0	0		0	fg.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.14	765.5	30.19	766.8	63	17.2	90	ne.	15	6.7			10 s		ne.	0.05	1.3	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.66	651.8	29.92	760.0	45	7.2	56	sw.	6	2.7		0	4 s		sw.	0	0	fair	J. Grover.
Yankton, Dakota	28.69	728.7	29.97	761.2	46	7.8	100	n.	14	6.3			10 n			1.55	39.4	heavy rain	J. H. Atfield.
Yuma, Arizona	29.75	755.6	29.89	759.2	64.0	17.8	82	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.03	762.7	81	27.2	70	n.	2	0.9		2 c	0			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	77	25.0	91	e.			2	5 ck	7 ks	e.	e.	0.100	2.5		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.41	747.0	29.97	761.2	79	26.1	89	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78.5	25.8	90	ne.			1		8 ks		ne.	0.37	9.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe.
York Factory, B. A.	30.12	765.0	30.18	766.6	33.5	0.8	95	sw.	11	4.9		1 c?	0	w.		0	0	fair?	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 43° 30′, E. 16° 26′	29.95	760.7	75	23.9	77	nnw.			1		5	nnw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.33	770.4	73.5	23.1	85	ese.			2		5	ese.						d. clouds.
H. M. S. Gannet, N. 10° 00′, W. 15° 45′	29.99	761.7	78	25.6	91	ese.			2		9					3	s.;w.	showery.
H. M. S. Himalaya, N. 37° 35′, E. 4° 49′	29.94	760.5	71	21.7	80	ene.			5		3					5	ene.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.92	760.0	76	24.4	91	nw.			1-4		0							blue sky.
H. M. S. Minotaur, N. 42° 00′, W. 9° 02′	29.83	757.7	62	16.7	83	sse.			1		7	s.				2	wnw.	foggy.
H. M. S. Opal, N. 19° 51′ W. 23° 40′	30.13	765.3	73	22.8	85	nne.			4		2	nne.				4	nne.	d. clouds.
H. M. S. Satellite, N. 46° 46′, W. 10° 13′	29.95	760.7	59	15.0	88	ese.			4		7	ese.				4	wsw.	d. clouds
H. M. S. Tyne, N. 11° 32′ W. 54° 50′	30.05	763.3	81	27.2	83	ese.			6		3					4	ese.	squally.
H. M. S. Thetis, N. 7° 55′, W. 21° 03′	30.01	762.2	81	27.2	87	se.			2		3	nne.				3	n.; s.	d. clouds.
H. M. S. Tenedos, St. Johns, N.F	29.98	761.5	54	12.2	87	sw.			2		10	w.						overcast.
H. S. M. S. Eugenie, N. 57° 47′, E. 8° 04′	30.10	764.5	52.0	11.1	87	ene.			2		10							overcast.
U. S. Navy Yard, Portsmouth, N. H*	30.45	773.4	58	14.4	76	nw.	2	0.9			0			0	0			clear.
U. S. S. Lancaster, Kronstadt, Russia	30.17	766.3	71	21.7	45	nne.			2		2	nne.				sm'h		fair.
U. S. S. Nipsic, New York, N. Y*	30.45	773.4	66	18.9	54	ese			2		0							clear.
U. S. S. Portsmouth, Newport, R.I.	30.53	775.4	60	15.6	100	nne.			2		0							clear.
U. S. S. Powhatan, N. 32° 07′. W. 80° 30′	30.16	766.1	67	19.4	100	n.			3		10					mod.	ne.	cloudy.
U. S. S. Quinnebaug, Grand Bassa, W. Africa	30.02	762.5	81	27.2	83	ne.			2		2	se.				sm'h	s.	fair.
U. S. S. Saratoga, New York, N. Y.	30.48	774.2	59	15.0	82	ne.			2		8	ne.		0	0	sm'h		fair.
U. S. S. Vandalia, New York, N. Y.	30.47	773.9	63	17.2	67	ene.			2		0							clear.
S. S. Inchkeith, N. 34° 19′. W. 42° 24′			69.5	20.8	77	calm			0		0							blue sky.
H. P. M. S. Rio Lima, Porto Praya, Cape Verd Islands			75.2	24.0	87	ne.			2		0					3	se.	blue sky.
S. S. British Prince, N. 40° 48′, W. 59° 54′ †	30.33	770.4	64	17.8		nw.			4		7 ?		nw.	5 h'r	5 h'r	sli't	nw.	clear?
S. S. Illinois, Philadelphia, Pa	30.46	773.7	66	18.9		nne.			2		1		nne.					fine.
S. S. Lord Clive, N. 46° 10′, W. 39° 04′						w.			4		5		w.	4 h'r	4 h'r	sli't	w.	fine.
S. S. Lord Gough, Delaware river						ene.			5		8			0	0			cloudy.
S. S. Ohio, N. 39° 13′. W. 63° 36′†	30.37	771.4	66	18.9		ne.			4		10		e.	8 h'r	8 h'r	sm'h	ne.	cloudy.
S. S Pennsylvania, N. 49° 29′. W. 22° 29′ †	29.91	759.7	57	13.9		ene.			2		3		ene.	0	0	sm'h		fine.
S. S. Grecian, Blacksod Bay, Ireland	30.14	765.5	53	11.7	80	nne.			2		10		nne.	3 h'r	3 h'r			cloudy.
S. S. Polynesian, N. 52° 50′, W. 33° 05′	30.11	764.8	53	11.7		e			4		6		se.	0	0	sm'h		fair.
S. S. Prussian, N. 52° 50′, W. 29° 38′	30.00	762.0	52	11.1		ene.			2		1		w.	0	0	mod.	e.	
S. S. Manitoban, N. 51° 40′, W. 36° 50′	29.99	761.7	45	7.2	84	s.			4		10		sw.	4 h'r	4 h'r	sm'h		overcast.
S. S. Sardinian, N 55° 38′, W. 13° 30′	30.16	766.1	56	13.3		nnw.			1		0			0	0	long	w.	clear.
S. S. Alvo, N. 26° 15′ W. 74° 15′*	30.09	764.3	76	24.4		e.			5		2		se.	0	0	long	e.	fine.
S. S. Alene, Kingston, Jamaica, W. I †	30.09	764.3				var.			2-4		0			0	0			fine.
S. S. Auchoria, N. 51° 00′, W. 30° 55′†	30.09	764.3				ne.			3		7		ene.	0	0	mod.	w.	cloudy.
S. S. Assyria, N. 42° 02′ W. 45° 22′	30.36	771.1	68	20.0		wsw.			4		10		wsw.	0	0	sm'h		cloudy.
S. S. Dorian, N. 50° 56′, W. 10° 10′	30.19	766.8	60	15.6		e.			2		10		e.	0	0	mod.	nw.	fine.
S. S. Devonia, N. 43° 58′, W. 50° 00′*†	30.21	767.3	52	11.1		ssw.			4		fg					sli't	sw.	foggy.
S. S. Furnesia, N. 49° 50′, W. 25° 43′ †	29.91	759.7	56	13.3	87	ese.			2		2		se.	3 h'r	3 h'r	long	nw.	fair.
S. S. Elysia, N. 44° 10′ W. 58° 50′	30.21	767.3	47	8.3		wnw.			3		3		nw.	12 h'r	12 h'r	sm'h		clear.
S. S. Jerome, N. 10° 45′, W. 53° 30′			81	27.2	96	ene.			6		3		ne.	0	0	r'gh	ene.	clear
S. S. Llandaff City, N. 41° 40′ W. 52° 48′			56	18.9		sw.			5		7		w.	0	0	mod.	w.	cloudy.
S. S. Marathon, Palermo, Sicily	30.04	763.0	65	18.3		ene.			2		3		ne.	0	0	sm'h	ne.	fine.
S. S. Rhiwindda, Penarth Roads, Wales			57	13.9		ene.			2		5		s.	0	0	sm'h		fine.
S. S. France, N. 40° 54′, W. 55° 49′			68.0	20		sw.			5		10		w.	rain	rain	sm'h	sw.	
S. S. Ville de Marseilles, N 37° 12′, W. 33° 15′			64	17.8		wnw.			6		8		nw.	4 h'r	4 h'r	h'vy	nw.	cloudy.
S. S. Arizona, N. 43° 43′, W. 43° 30′	30.29	769.4	62	16.7		wnw.			4		8		nw.	0	0	mod.	nw.	cloudy.
S. S. Wyoming, N. 43° 09′, W. 46° 39′	30.28	769.1	65	18.3		wsw.			5		0			0	0	sm'h		clear.
S. S. Bohemia, N. 42° 27′, W. 61° 37′						nw.			4-5		2		nw.	6 h'r	6 h'r	long	w.	foggy.
S. S. Gellert, Wolf Rock, Eng	30.17	766.3	62	16.7	77	ese.			1		0			0	0	sm'h		clear.
S. S. Rugia, Hamburg, Germany	30.02	762.5	84	28.9		e.			2		2		se.	0	0			fair.
S. S. Silesia, N. 26° 33′, W. 54° 34′	30.43	772.9	73.0	22.8		e.			3		3		e.	0	0	3	e.	fair.
S. S. Wieland, N. 40° 26′, W. 63° 40′	30.46	773.7				ne.			4		5		ne.	0	0	mod.	ne.	fair.
S. S. City of Berlin, N. 42° 10′, W. 62° 53′	30.41	772.4	51	10.6	86	nw.			2		2		wnw.	3 h'r	3 h'r	sli't	wsw.	fine.
S. S. City of Paris, N. 40° 38′, W. 71° 33′*	30.35	770.9				calm			0		0			0	0	sm'h	sw.	clear.
S. S. Mentmore, N. 44° 55′, W. 42° 00′*†	30.31	769.9				wsw.			4		10		wsw.	0	0	mod.	w.	gloomy.
S. S. Virginian, N. 42° 37′, W. 69° 14′ *	30.49	774.4	51	10.6		ssw.			3		0			0	0	sm'h		clear.
S. S. Archimedes, N. 35° 15′, W 70° 11′	30.26	768.6				ese.			1-2		3		e.	0	0	light	se.sw	fine.
S. S. Ptolemy, N. 7° 15′, W. 27° 45′	30.04	763.0	82.1	27.8	63	nne.			2	c	5 kn			0.20	5.1	2	ne.	fair.
S. S. Colorado, Key West, Fla †	30.05	763.3	78	25.6		ene.			3		4		ene.	0	0			fair.
S. S. Rio Grande, N. 28° 00′, W. 91° 22½′†	30.04	763.0	79	26.1		se.			1		1		se.	0	0	mod.	se.	clear.
S. S. Chalmette, N. 28° 58′, W. 89° 09′ †	30.20	767.1	78	25.6		se.			3		3		se.	0	0			clear.
S. S. Lone Star, N. 37° 12′, W. 74° 30′†	30.33	770.4	62	16.7		ene.			4		5		ne.	2 h'r	2 h'r	r'gh	ne.	hazy.
S. S. Hermod. N. 2° 50′, W. 42° 30′ †	30.00	762.0	82	27.8		se.			1		4		se.	0	0	sm'h	s.	fair.
S. S. Archimede, Marseilles, France†	30.07	763.8	74	23.3	63	nw.			2		2		nw.	0	0			clear
S. S. City of Merida, N. 19° 40′, W. 90° 20′†	30.09	764.3	81	27.2		e.			2		0			0	0	light	e.	clear.
S. S. City of Washington, N. 21° 20′, W. 89° 38′†	30.11	764.8	80	26.7		e.			2		5		e.	0	0	sm'h		fair
S. S. Denmark, N. 49° 49′, W 10° 45′†	30.08	764.0	64	17.8		se.			3		5		se.	0	0	mod.	w.	fair.
S. S. England, N. 49° 44′, W. 21° 57′	29.83	757.7	54	12.2		wsw.			2		10		wsw.	8 h'r	8 h'r	high	w.	cloudy.
S. S. Erin, New York, N. Y.	30.51	774.9	68	20.0		sse.			5		6		se.	0	0			fair.
S. S. Helvetia, Liverpool, Eng	30.08	764.0	67	19.4	89	e.			4		2		e.	0	0			clear.
S. S. Braunschweig, N. 49° 43′, W. 11° 48′	30.06	763.5	68.0	20.0	51	ese.			4		5		ese.	2 h'r	2 h'r	sm'h	ese.	fair.
S. S. Elbe, N. 49° 23′, W. 17° 48′	29.93	760.3	55	12.8	93	var.			5		10		sse.	1 h'r	1 h'r	long	sse.	covered.
S. S. Hohenzollern, N. 45° 40′, W. 27° 00′	29.89	759.2	57	13.9		nw			5		5		ne.	6 h'r	6 h'r	high	nw.	fair.
S. S. Hohenstaufen, N. 37° 25′ W. 73° 54′	30.39	771.9				ene.			4		7		ene.	0	0	mod.	ene.	fair.
S. S. Main, N. 42° 13′, W. 56° 30′	30.21	767.3	.57	13.9		nw.			4		5		nnw.	2 h'r	2 h'r	mod.	nnw.	fair.
S. S. Neckar, N. 46° 50′, W. 29° 40′	30.00	762.0	54.5	12.5	90	n.			5		4		nne.	light	light	mod.	n.	fair.
S. S. Ohio, N. 39° 37′, W. 46° 18′	30.45	773.4				wnw.			4		3		wnw.	0	0	mod.	wnw.	clear.
S. S. Salier, N. 50° 23′, W. 27° 02′*	29.88	758.9	54	12.2	74	ne.			3		2		wsw.	0	0	high	nw.	clear.
S. S. Strassburg, N. 37° 56′, W. 70° 18′	30.41	772.4	64.0	17.8	75	ne			4		6		ne.	0	0	3	var.	clearing.
S. S. Werra, N. 41° 30′, W. 50° 59′	30.27	768.7	72	22.2		ssw.			4-5		5		sw.	0	0	sm'h	ssw.	fair.
S. S. Weser, N. 47° 12′, W. 26° 30′	29.91	759.7				nne.			5		5		ne.	4 h'r	4 h'r	mod.	nne.	fair.
S. S. City of Augusta, Savannah, Ga †	30.27	768.8				ssw.			2		4		sw.					fair.
S. S. Colon, N. 40° 27′, W. 73° 54′†	30.43	772.9	58	14.4		ene.			1		0			0	0	sm'h	s.	clear.
S. S. Muriel, N. 21° 45′, W. 64° 16′	30.20	767.1	77	25.0		e.			3		2		e.	0	0	mod.	e.	clear.
S. S. Orinoco, N. 35° 31′, W. 68° 16′†	30.36	771.1	74	23.3		ene.			1		2			3 h'r	3 h'r	light	s.	clear.
S. S. Rhynland, N. 47° 20′, W. 30° 30′	29.95	760.7	54	12.2	87	n.			4		6		n.	0	0	mod.	nnw.	fair.
S. S. Pennland, New York, N. Y.	30.48	774.2	39	3.9		ese.			3		3		ese.	0	0			clear.
S. S. Switzerland, N 46° 07′. W. 35° 12′†.	30.10	764.5				e.			1		10		e.	0	0	sm'h		misty.
S. S. Waesland, Antwerp, Belgium	30.08	764.0	77	25.0		n.			5		0			0	0			clear.
S. S. Leerdam, N. 49° 16′, W. 18° 10′	29.90	759.4	60	15.6	94	ese.			5		6		s.	3 h'r	3 h'r	mod.	s.	fair
S. S. Rotterdam, N. 40° 30′, W. 58° 55′	30.35	770.9	66	18.9	89	n.			3		6		n.			2	n.	sprinkling.
S. S. W. A Scholten, Rotterdam, Holland	30.09	764.3	66.6	19.2	59	ne.			6		0			0	0			clear
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	83	28.3	91	wnw.			2		5		calm	½ h'r	½ h'r	mod.	n.	fair.
S. S. Valencia, N. 28° 17′, W. 70° 20′ †	30.38	771.6	79	26.1	82	e.			4		2		e.	0	0	mod.	e.	clear.
S. S. State of Georgia, N. 40° 04′, W. 63° 45′†	30.49	774.4	61	16.1		ne.			4		4			0	0	sm'h		fair
S. S. State of Nevada. N. 45° 32′, W. 41° 25′†	30.23	767.8	63	17.2		w.			4		mist		w.	0	0	sm'h	wnw.	misty.
S. S. Thingvalla, N. 58° 18′, E. 1° 03′†	30.13	765.3	53.6	12.0		w.			3		3		w.	0	0	sm'h	wnw.	clear.
S. S. Oregon, N. 50° 47′ W. 28° 18′	29.89	759.2	52	11.1		nne.			2		8		nne.			mod.		cloudy.
S. S. Olbers. N. 25° 05′, W. 20° 33′†	30.18	766.6	74	23.3	68	nnw.			4		3		nnw.	0	0	sm'h	nnw.	clear.
S. S. Daniel Steinmann, Antwerp, Belgium†	30.06	763.5	72	22.2		wnw.			4		0			0	0			clear.
S. S. Norman, N. 39° 46′, W. 75° 45′	30.35	770.9				se.			1		0			0	0	sm'h		clear.
S. S. Saxon, Boston, Mass †	30.46	773.7				w.			2									fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Adriatic, N. 40° 4c′, W. 61° 09′*†	30.47	773.9	58	14.4		n.			5		8		wsw.	13 h'r	13 h'r	sli't	n.	cloudy.
S. S. Baltic, N. 51° 07′, W. 15° 06′*	30.06	763.5	60	15.6	82	se.			3		6		s.	sh'rs	sh'rs	sli't	nw.	fair.
S. S. Germanic, N. 50° 31′ W. 17° 54′*†	29.82	757.4	55	12.8		ese.			4		7		se.	0	0	sli't	ese.	fair.
S. S. Iowa, N. 46° 14′, W. 38° 03′†	30.02	762.5	58	14.4		w.			6		9		w.	16 h'r	16 h'r	r'gh	w.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	29.84	757.9	79	26.1	95	se.			2		8			0	0			hazy.
Schr. Abbie H. Gheen, Jacksonville, Fla†	30.30	769.6	76	24.4		ne.			2									cloudy.
Bg. Alcira, N. 18° 33′, W. 74° 30′	30.07	763.8	86	30.0		calm			0		2		calm	0	0	mod.	s.	clear.
Bk. Adelaide, N. 0° 29′, W. 26° 38′*†	30.05	763.3	82	27.8		ssw.			4		1		sw.	0	0	mod.	sse.	clear.
Bk. Achille F, —. 0° 00′, W. 24° —††	30.02	762.5	79	26.1	82	s.			2		4		sw.	4 h'r	4 h'r	long	s.	fair.
Schr. Authur Burton, St. Simon's Island Ga†	30.23	767.8				n.			2		5		n.	0	0	sm'h		fine.
Bk. Aureola, N. 37° 07′, W. 54° 47†	30.45	773.4	78	25.6		wsw.			3		4		w.	0	0	mod.	se.	fair.
Bk. Arda, Wood Point, N. B						nw.			3		0			0	0			clear.
Bk. Alba, N. 49° 01′, W. 48° 11′*†	29.94	760.5	41.0	5.0		w.			4					0	0		sw.	
Bgt. Achsah, N. 34° 00′, W. 70° 30′†	30.27	768.8	75	23.9		sse.			2		0			0	0	mod.	sse.	clear.
S. S. Burswell, N. 46° 09′, W. 7° 46′†*	29.98	761.5	64	17.8		ene.			3		2		calm	0	0	str'g	wnw	fine.
Bg. Belle of the Bay, Galveston, Texas†	30.05	763.3				s.			2		6		se.	20 mi	nutes			fair.
Sch. C. R. Flint, N. 26° 23′ W. 76° 54′†	30.16	766.1	76	24.4		ese.			4		2		se.	0	0	r'gh	ese.	clear.
Bk. Childwall, N. 40° 42′, W. 29° 39′*	30.05	763.3	60	15.6		nw.			6		10		nnw.	3 h'r	3 h'r		nnw.	overcast.
Bk. Cato, Bodöe, Norway *†	30.12	765.0				ne.			3									
S Criterion, N. 53° 04′, W. 25° 15′*†	30.01	762.2				ene.			2		8		ene.	0	0	light	ene.	overcast.
Schr. Clotilde, N. 22° 36′, W. 97° 36′*†	29.99	761.7	84	28.9		se.			4		5		se.	0	0	r'gh	se.	fair.
S. David Stewart, N. 22° 06′, W. 37° 14′†	30.28	769.1				ene.			5		3		ene.	0	0	mod.	ne.	clear.
S. S. D. J. Foley, Port Maria, Jamaica, W. I*†	30.00	762.0	81	27.2	87	e.			2		3		e.	0	0			clear.
Bkt. David A. Preston, Navassa, W. I						e.			4		2		e.	0	0	long	se.	
S. E. J. Spicer, N. 51° 00′, W. 7° 55′	30.12	765.0	58	14.4	88	ene.			2		10		ese.	0	0	mod.	wnw.	cloudy.
Bk. E. D. Bigelow, N. 51° 08′, W. 11° 00′*†	30.04	763.0	65	18.3		ese.			2		7		se.	½ h'r	½ h'r	long	nw.	fair.
U. S. Fish Com. S. S. Fish Hawk, Washington, D. C†	30.40	772.1	57	13.9	87	n.			1		1		calm	0	0			clear.
Schr. F. E. Waters, Chesapeake Bay *†	30.30	769.6				ne.			2					0	0			
Bk. George Davis, N. 54° 31′, W. 10° 24′						ene.			2				ne.	0	0		nnw.	
Bgt. George, N. 39° 50′, W. 71° 41′*†	30.40	772.1				ese.			3		2			0	0	mod.	s.	fair.
Bk. Galeon, N. 20° 49′ W. 99° 33′†	30.05	763.3	80	26.7		ene.			3		0			0	0	sm'h	ene.	blue sky.
Bk. Heinrich & Tonio, N. 49° 39′, W. 4° 02′ †	30.09	764.3	59	15.0		ene.			3		3		ne.	0	0	light	w.	hazy.
S Hedwig, N. 35° 51′, W. 6° 39′	29.86	758.5	68.5	20.3	95	ese.			2		4		ese.	0	0	2	e.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C†	30.16	766.1	73	22.8		sw.			2		3		w.	0	0			fair.
Schr. Isabel Alberto, New York, N. Y†	30.44	773.2				ene.			1		0			0	0			clear.
Bk. Johanne, N. 36° 02′, W. 7° 30′*†	29.72	754.9	71	21.7		se.			1		5		s.	0	0	sm'h		hazy.
Schr. John L. Thomas, N. 22° 30′, W. 73° 10′*†	30.16	766.1				e.			4		2		se.	½ h'r	½ h'r	mod.	e.	clear.
Bg. John Wesley, N. 35° 42′, W. 58° 16′*†	30.42	772.7	73	22.8		se.			1		1		se.	0	0	long	se.	clear.
Bkt. Kryolith, Arsuk Fiord, Greenland*†	29.90	759.4				e.			5		10		se.	24 h'r	24 h'r			misty.
Light House Tender Laurel, Pensacola Bay, Fla†	30.10	764.5	77	25.0		ne.			2		2		sw.	0	0			clear.
Bg. Lilian, N. 21° 36′, W. 65° 45′†	30.13	765.3	82	27.8		ese.			3		4		se.	1½ h'r	1½ h'r	mod.	e.	fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.00	763.5	81	27.2		calm			0		3			0	0			fair.
Bk. Milo, N. 46° 03′, W. 24° 16′†	29.75	755.6				e.			1				e.			high	nw.	fine.
S. S. Madrid, Pt. Porman, Spain†	29.97	761.2	72	22.2	71	ne.			6		3		ne.	0	0	sm'h		fair.
Schr. Minnie A. Bonsall, Hoboken, N. J†	30.48	774.2	73	22.8		s.			1				se.	0	0			clear.
Bk. Matilda C. Smith, N. 46° 15′, W. 25° 00′†	30.01	762.2				e.			2		2		e.	0	0	r'gh	wnw	fine.
Bgt. Myrtle, N. 13° 00′, W. 59° 03′*†	30.10	764.5				ene.			6				e.	0	0	rg'h	e.	fair.
Bk. Matthias, N. 48° 02′, W. 11° 26′			59	15.0		e.			4		6		e.	0	0	mod	w.	squally.
Schr. Maggie Abbott, N. 34° 52′, W. 68° 14′†	30.37	771.4				se.			2		4		calm	sh'rs	sh'rs	mod.	s.	clear.
Bk. National Eagle, N. 39° 28′, W. 54° 11′						sw.			6		2		sw.	0	0	mod.	ssw.	fair.
Bg. O. C. Clary, N. 38° 58′, W. 72° 44′*†	30.32	770.1				nne.			1		0					sm'h	s.	clear.
Bk. Ottawa, N. 49° 31′, W. 11° 06′.	30.04	763.0	57	13.9		e.			5		8		e.	0	0	small	wnw.	cloudy.
S. Paramita, N. 3° 53′, W. 30° 40′†	29.93	760.2	81	27.2		nw.			1		2		var.	light	light	sharp	nne.	clear.
S. S. Raleigh, Baracoa, Cuba, W. I†	30.13	765.3	78	25.6		ne.			3					0	0			clear.
Bg. Rising Sun, N. 25° 05′, W. 61° 30′*†	30.20	767.1	74	23.3		e.			6		10		e.	24 h'r	24 h'r	sm'h	e.	
Bk. Rosino, N. 40° 15′, W. 42° 53′			72	22.2		w.			4		5		w.	0	0	sm'h	w.	fair.
Bk. Sunbeam, N. 39° 58′ W. 61° 00′ †	30.35	770.9	64	17.8	100	nne.			6		8		ne.	4 h'r	4 h'r	mod.	sw.	cloudy.
Bk. Southern Belle, N. 28° 10′, W. 30° 50′†	30.32	770.1	69	20.6		ne.			4		2		ne.	0	0	mod.	ne.	clear.
Ex. Usko, N. 50° 02′, W. 2° 20 *	30.10	764.5	55	12.8	87	calm			0					0	0	mod.	wnw.	foggy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†	30.04	762.9	81	27.2		calm			0		4		calm	2 h'r	2 h'r			fair.
Bg. Sunlight, N. 33° 40′, W. 70° 54′						se.			4		5		se.	0	0	mod.	sse.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†	29.81	757.2	58	14.4	100	nw.			3		10							thnd'r st'rm
H. M. S. Boadicea, Simon's Bay, Cape Colony, Africa	29.82	757.4	63	17.2		nw.			3		3							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata	29.87	758.7	60	15.6	98	n.			1		10							thund'r st'm
U. S. S. Brooklyn, Montevideo, Uruguay*	29.88	758.9	61	16.1	88	ne.					10		calm	0	0	sm'h		cloudy
U. S. S. Galena, Montevideo, Uruguay*	29.88	758.9	60	15.6	88	nne.	9	4.0			10					sm'h		cloudy.
May Hulse, S. 26° 32′, W. 27° 10′	30.11	764.8	66.2	19.0	70	sw.			2		10							drizzling.
Bk. Horace Scudder, S. 7° 06′, W. 24° 16′ *†	30.09	764.3	80	26.7		se.			4		1			0	0	light	se.	fine.
S. Wm. McGilvery, S. 14° 38′, W. 37° 53′*†	30.15	765.8	78	25.6	73	se.			3		5		se.	0	0	sm'h		fair.
S. S. Hevelius, S. 10° 00′, W. 35° 00′†	30.21	767.3	78	25.9		sse.			6		4		ese.	12 h'r	12 h'r	sm'h		fair.
Bk. Alpheus Marshall, S. 23° 33′, E. 6° 12′ *†	30.03	762.7				nw.			1		5		nw.	½ h'r	½ h'r	long	sw.	fair.
Bk. Ceylon, S. 34° 50′, E. 16° 43′ *†	29.84	757.9	66	18.9	84	nw.			5		8		nnw.	2 h'r	2 h'r	r'gh	nnw.	cloudy.
S. Dynomene, S. 31° 18′, E. 15° 38′	29.89	759.2	63.8	17.7	94	nw.			5		3			mod.	mod.	cross	var.	fair.
H. P. M. S. Duque de Terceira, Mossamedes, Beng'la	30.01	762.2	74.5	23.6	55	sw.			3		0			0	0	3	sw.	blue sky.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yang-tsi-Kiang river, China	29.78	756.4	75	23.9	72	calm			0									misty.
H. M. S. Champion, Labuan Id., Borneo	29.84	757.9	85	29.4	92	calm			0		4							d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 11′	29.70	754.4	57	13.9	94	w			3–5		0					2	w.	misty.
H. M. S. Magpie, N. 4° 59′, E. 115° 06′	29.90	759.4	83.2	28.4	83	calm			0		3							d. clouds.
H. M. S. Sheldrake, N. 10° 25′, E. 118° 11′			80	26.7		sw.			5		8					5	sw.	raining.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.59	751.6	65	18.3	89	w.			1		2							d. clouds.
H.P.M. S. Pamega, Macao, China	29.80	756.8	82.0	27.8	80	e.			5–6		10			¾ h'r	¾ h'r			raining.
U. S. Naval Hospital, Yokohama, Japan	29.44	747.8	67	19.4	92	sw.			3		0			0.74	18.8			clear.
U. S. S. Adams, Port Mingrave, Alaska †	29.78	756.4	46	7.8	84	calm			0		8					sm'h		cloudy.
U. S. S. Essex, N. 0° 16′, W. 130° 43′	29.87	758.7	79	26.1	82	e.			4		2		se.			sm'h	se.	clear.
U. S. S. Hartford, Honolulu, Sandwich Ids*	30.00	762.0	75	23.9	81	ne.			2		2			0	0			clear.
U. S. S. Monocacy, Salee river, Corea	29.69	754.1	59	15.0	88	w.			3		0							clear.
U. S. S. Palos, Hong Kong, China	29.69	754.1	77	25.0	91	ese.			5		10		calm					cloudy.
U. S. S. Richmond, Hong Kong, China*	29.69	754.1	77	25.0	95	ene.			4		10		ene.	2.4	61.			cloudy.
S. S. Arabic, N. 39° 41′, E. 149° 54′			53	11.7	80	ese.			6		10		ese.	h'vy	h'vy	high	se.	squally.
S. S. Oceanic, Hong Kong, China	29.86	758.4	78	25.6	86	ne.			6		9		ne.	0	0	light	ne	cloudy.
S. S. Columbia, West Port, Oregon†	30.11	764.8	48	8.9	85	sw.			2		10		sw.					cloudy.
S. S. Oregon, San Francisco, Cal †	30.16	766.1	53	11.7	93	calm			0									hazy.
S. S. Willamette, N. 46° 14′, W. 124° 23′ †	30.21	767.3	52	11.1	79	ssw.			2		6		ssw.	0	0	long	w.	fair.
S. S. Ancon, San Francisco, Cal †	30.12	765.0	51	10.6	79	wnw.			5		0							clear.
S. S. City of Chester, Eureka, Cal †	30.15	765.8	45	7.2	92	wnw.			2		0							clear.
S. S. Dakota, N. 40° 49′, W. 124° 34′ †	30.15	765.8	54	12.2	74	nw.			4		2		nw.			mod.	nw.	clear.
S. S. Queen of the Pacific, Portland, Oregon †	30.12	765.0				calm			0		5			0	0			fair.
S. S. City of Rio de Janeiro, N. 35° 00′, E. 152° 00′ †	29.73	755.1	68	20.0	95	sse			8		10		sse.	0.2	5.	r'gh	sse.	stormy.
S. S. Colima, N. 35° 07′, W. 121° 38 †	30.15	765.8	56	13.3	75	nw.			5		6		nw.	0	0	mod.	wnw.	fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Granada, Panama, Panama†	29.90	759.4	77	25.0	91	w.			2		6		var.	0	0			fair.
S. S. San Blas, N. 4° 02′, W. 81° 00′			80	26.7		ese.			1		0			2 h'r	2 h'r	long	ssw.	clear.
S. S. Zealandia, N. 15° 00′ W. 160° 11′			80	26.7	96	ne.			2		0					mod.	ne.	clear.
S. S. Benledi, Kobe, Japan*	29.53	750.0	67	19.4	74	wsw.			3–4		3		sw.	0	0	sm'h		clear.
S. S. Radnorshire, N. 32° 36′, E. 135° 15′*†	29.60	751.8				nw.			3		hz.		calm	0	0	high	sw.	hazy.
S. Sacramento, N. 16° 00′, E. 118° 15′*†	29.93	760.2	82	27.8	79	sse.			3		9		s.	1 h'r	1 h'r	sm'h		cloudy.
S. Titan, N. 45° 07′, W. 126° 50′*†	30.10	764.5	53	11.7	100	se.			5		10		se.	11 h'r	11 h'r	mod.	w.	raining.
Bk. Xenia, Shanghai, China	29.95	760.7	77	25.0		sw.			3					0	0			misty.
H. M. S. Sappho, N. 14° 12′, W. 92° 38′	29.96	761.0	78	25.6	100	sw.			1		5	w.				2	sw.	squally.
U. S. S. Ranger, N. 14° 53′, W. 92° 43	29.92	760.0	82	27.8	83	ne.			1		5		ne.	0	0	long	sw.	fair
S. Henry Failing, N. 42° 50′, W. 125° 16′†	30.07	763.8	56	13.3		ssw.			4		8		ssw.	0	0	mod.	sw.	cloudy.
S. Grecian, Yokohama, Japan †	29.32	744.7	68	20.0	84	nw.			6		0			8 h'r	8 h'r			clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W	30.07	763.8	56	13.3	94	calm			0		0							blue sky.
H. M. S. Espiegle, S. 3° 01′, E. 177° 03′	30.01	762.2	83	28.3	83	ene.			2		2					2	ene.	d. clouds.
H. M. S. Kingfisher, S. 25° 07′, W. 129° 50′	30.07	763.8	74	23.3		nw.			3		6					3	n.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids, Oceania	29.77	756.1	73	22.8	76	n.			1		10							raining.
U. S. S. Iroquois, Valparaiso, Chili	30.10	764.5	58	14.4	88	calm			0		10							overcast.
U. S. S. Lackawanna, S. 23° 19′, W. 98° 08′*	30.17	766.3	67	19.4	55	ene.			3		10		ne.			mod	se.	cloudy.
U. S. S. Onward, Callao Peru†*	30.12	765.0	63	17.2	89	calm			0		10							cloudy.
U. S. S. Pensacola, Callao, Peru*†	29.97	761.2	62	16.7	88	calm			0		10			0	0			cloudy.
U. S. S. Wachusetts, S. 21° 23′, W. 159° 12′	29.92	760.0	77	25.0	100	nnw.			2		2		nw.			mod.	ne.	clear.
S. S. Australia, Sydney, N. S. W	29.94	760.5	49	9.4	93	nw.			2		2		w.	0	0			clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.91	759.7	79.3	26.3	82	calm			0		4					sm'h		d. clouds.
S. S. City of Sydney, Sydney, N. S. W *†	29.94	760.5	52	11.1	79	w.			2		2 s		w					clear.
Bk. Chas. Stewart, S. 43° 50′, E. 155° 00′†	30.01	762.2	57	13.9		nne.			4		10		ne.			mod.	var.	hazy.
S. Parker M. Whitmore, S. 56° 15′, W. 78° 40′ *†	28.98	736.1	37	2.8		nw.			8		10		nw.	3 h'r	3 h'r	cross	var.	snowing.
S. Storm King, S. 55° 45′, W. 81° 08′ *†	29.06	738.1				nw.			6		9		nw.	2 h'r	2 h'r	r'gh	wnw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	29.96	761.0	80	26.7		sse.			2		2	sse				2	sse.	d. clouds.
S. S. Tourmaline, N. 8° 15′ E. 72° 45′	29.85	758.2	86	30.0	76	wnw.			3		1	w.						blue sky.
U. S. S. Enterprise, S. 29° 44′, E. 34° 09′	29.84	757.9	74	23.3	86	nne.			5		2		calm			cross		clear.
U. S. S. Juniata, Bombay, India	29.76	755.9	86	30.0	96	sw.			3		8		s.	mod.	mod.			cloudy.
S. S. Galatia, Suez Canal*†	29.91	759.7	95	35.0		nnw.			2		0			0	0			clear.
S. S. Gordon Castle, S. 14° 14′, E. 144° 37′*	30.02	762.5	76.0	24.4	88	se.			5–6		2		se.					clear.
S. S. Malabar, N. 13° 53′, E. 94° 18′ *†	29.77	756.1				sw.			8		10		sw.	18 h'r	18 h'r	h'vy	sw.	heavy rain.
S. Annie M Law, S. 32° 28′, E. 31° 00′ *†	29.80	756.9	69	20.6		sw.			3		0?			0	0	mod.	sw.	threatening?

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 3, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.94	760.5	72.7	22.6	98	e.			1		0			0	0	clear	Malaterre.
Algiers			29.85	758.3	74.8	23.8	59	w.			8		0			0	0	clear	Thève.
La Galle			29.96	760.9															Fonfrède.
Tunis			30.00	762.1															Jacques.
Saida			29.98	761.6															Pérès.
Tebessa			30.05	763.3	82.4	28.0	27	ssw.			4		3			0.008	0.2	pretty fair	St. Martin.
Geriville					91.8	33.2	5	sw.			5		3			0	0	pretty fair	Forfert.
Laghouat			29.94	760.5	97.2	36.2	13	se.			6		1			0	0	very fair	Abraham.
Biskra			29.95	760.7	98.6	37.0	19	calm			0		3			0	0	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.21	767.3	52.3	11.3	71	ssw.	17	7.6			4 ks			0.145	3.7	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.72	754.9	29.81	757.2	49.9	9.9	92	n.	6	2.7			10			0.12	3.0	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.45	748.0	29.98	761.5	72.7	22.6	50	w.			3		6			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.24	742.7	29.97	761.3	77.0	25.0	48	ene.	4.3	1.9			7			0.063	1.6		Dr. Wierzbiski
Eperies	29.10	739.0	29.93	760.2	78.8	26.0	44	n.			2	0	3 s		s.	0	0		Julius Mikolik.
Gratz	28.74	729.9	29.93	760.3	75.7	24.3	61	sw.			1		0			0.008	0.2		Andreas Rospini.
Hermannstadt	28.56	725.3	29.95	760.6	66.4	19.1	80	sse.			1		5			0.260	6.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.67	728.3	29.95	760.7	77.0	25.0	49	ne.			2		0			0	0	clear	The Staff.
Lemberg	29.00	736.7	29.95	760.7	73.4	23.0	46	n.			4		6			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.87	758.8	29.98	761.5	76.3	24.6	58	wnw.			3		2			0	0		I. R.Hydrographic Office.
Szathmar	29.46	748.3	29.91	759.7	82.4	28.0	39	s.			2		0			0.075	1.9		Joseph Midliuszky, S. J.
Szegedin	29.65	753.2	29.92	760.0	76.6	24.8	56	se.			1		5			0	0	lightning	Karl Stancel.
Trieste	29.88	758.9	29.98	761.4	78.8	26.0	59	nw.			1		2			0	0		Royal Academy.
Vienna	29.32	744.8	30.00	762.1	78.1	25.6	45	ne.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.25	768.3	30.35	770.9	52.4	11.3	71	se.	15	6.7			2			0	0	blue sky	W. Boswell.
Armagh, Observatory	30.00	762.0	30.23	767.8	63.0	17.2	72	ese.	6	2.7									S. Gall.
Bidston, Liverpool Obs'y			30.21	767.3	66.0	18.9	49	e.	23	10.3			2					blue sky	John Hartnup.
Bolton, Sharples	29.70	754.4	30.23	767.8	65.8	18.8	53	ese.	18	8.0								blue sky	Thomas Mackereth.
Bradford, Yorkshire																0	0		McLandsborough&Preston
Bridgetown, Barbadoes	30.06	763.5	30.09	764.3	83.0	28.3	73	ne.			2		3					d. clouds	Corpl. W. I. Cull, A.H.C.
Cardington	30.08	764.0	30.18	766.6	72.5	22.5	44	e.			1.0		0					blue sky	John McLaren.
Chatham, School M. E.	30.02	762.5	30.15	765.8	62.0	16.7	69	e.			5		0					misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.83	757.7	30.05	763.3	63.6	17.6	60	ene.			5		5					d. clouds	The Staff.
Fort Napier, Natal	27.58	700.5	29.80	756.9	70.0	21.1	40	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.67	753.6	29.90	759.4	81.0	27.2	91	w.			2		6					raining	J. W. Smith.
Galway, Queen's College	30.04	763.0	30.07	763.8	64	17.8	677	ne.			3		2			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.86	758.4	29.90	759.4	71.8	22.1	91	nw.			2		4					d. clouds	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.99	761.7	30.20	767.1	63.2	17.3	71	ne.			3		5					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.98	761.5	30.15	765.8	70.1	21.2	44	ene.			5		0					blue sky	The Staff.
Guernsey	29.71	754.6	30.01	762.2	60.3	15.7	81	ne.			3		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.11	764.8	30.14	765.5	68.5	20.3	43	ne.	25	11.2			0					hazy	The Staff.
Leicester, Museum	29.96	761.0	30.21	767.3	67.0	19.4	49	ne.			2		2					blue sky	J. C. Smith.
Malta, Mediterranean	29.91	759.7	29.99	761.7	73.0	22.8	87	ne.										blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.11	764.8	30.16	766.1	83.0	28.3	66	e.			2		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.69	754.1	30.20	767.1	67.2	19.6	42	e			4		2					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.93	760.2	30.16	766.1	69.7	20.9	51	ne.			4		1					blue sky	The Staff.
Plymouth	29.96	761.0	30.03	762.7	70.5	21.4	90	e.			6		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys	30.23	767.8	30.33	770.4	50.9	10.5	62						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.78	756.4	29.85	758.2	67.4	19.7	79	ne.			2		10					gloomy	W. H. Lyne.
Sheffield	29.98	761.5	30.26	768.6	69.1	20.7	66	ne.			4		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.20	767.1	30.24	768.1	70.0	21.1	52	e.			1		5			0	0	d. clouds	Rev. T. Redford, M. A.
Stonyhurst, Observatory			30.27	768.8	65.5	18.6	50	e.	14	6.3								blue sky	W. O. Carlisle.
Truro, Royal Institution	29.99	761.7	30.08	764.0	75	23.9	48	e.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.08	764.0	30.10	764.5	67.5	19.7	62	e.	18	8.0			4					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.63	752.6	30.02	762.5	78.4	25.8	49	se.	5.0	2.2		4 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.32	770.1	30.36	771.1	57	13.9	63	sw.	12	5.4		0	5 s		calm	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.25	768.3	30.31	769.9	62	16.7	50	w.	5	4.0		10 c	0	w.		0	0	fair	G. A. Blair.
Cornwall, Ontario	30.09	764.3	30.28	769.1	60.8	16.0	63	sw.			2		0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.18	766.6	30.23	767.8	68.0	20.0		w.			1		0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.18	766.6	30.20	767.1	57	13.9	90	w.	28	12.5		0	2 s		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.32	744.7	30.18	766.6	36	2.2	89	ne.	2	0.9		0	0			0	0	clear	James Stewart.
Fredericton, N. B	30.34	770.6	30.40	772.1	57.0	13.9	64	w.	8	3.6		2 c	0			0	0	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	29.05	737.9	30.13	765.3	59.0	15.0	65	s.	9	4.0		2 cs	0			0	0	fine	Jas. Grant.
Halifax, N. S*	30.35	770.9	30.48	774.2	60	15.6	65	nw.	2	0.9		5 c	0			0	0	fair	A. Allison.
Hamilton, Ontario	29.75	755.6	30.15	765.8	49.7	9.8		ne.			1	2 c	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.95	760.7	30.29	769.4	57	13.9	60	s.	8	3.6		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.28	769.1	30.32	770.1	71.0	21.7	37	sw.			6	5 c	0	sw.		0	0	d. clouds	C. H. Rigby.
London, Ontario	29.23	742.4	30.10	764.5	63.7	17.6	57	se.			3	0	0			0	0	blue sky	E. B. Reed.
Montreal, Quebec*	30.12	765.0	30.32	770.1	61	16.1	65	s.	6	2.7		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.04	763.0	30.29	769.4	61.0	16.1	73	s.			1	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.43	747.5	30.10	764.5	62	16.7	68	se.	10	4.5		2 ck	0	sw.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.50	749.3	30.23	767.8	60.7	15.9	61	sw.			1	1 c	0	sw.		0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.47	748.5	30.17	766.3	58	14.4	70	se.	4	1.8		5 c	0	se.		0	0	fair	H Morgan.
Port Stanley, Ontario	29.49	749.0	30.13	765.3	59	15.0	67	se.	5	2.2		5 ck	0	sw.		0	0	fair	M. Payne.
Quebec, Quebec*	29.97	761.2	30.31	769.9	62	16.7	78	sw.	8	3.6		10 c	hz.			0	0	dense haze	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.71	754.6	30.16	766.1	58	14.4	69	e.	6	2.7		hz	0			0	0	light haze	W. H. McIntyre.
St. Andrews, N. B.	30.34	770.6	30.39	771.9	55	12.8	74	sw.	3	1.3		0	1			0	0	clear	
St. John, N. B	29.26	768.6	30.43	772.9	55.0	12.8	80	sw.	8	3.6		5 c	0			0	0	d. clouds	G. Murdock, C. E.
Saint John's, N. F.	30.14	765.5	30.39	771.9	48	8.9	78	nw.			1		10 n			0	0	overcast	J. Higgins.
St. Pierre, N. F.			30.32	770.1	50.0	10.0		nw.			6					0	0		The Commandant.
Saugeen, Ontario*	29.35	745.5	30.04	763.0	64	17.8	60	s.	21	9.4		0	0			0	0	clear	
Stratford, Ontario	28.87	733.3	30.13	765.3	59.1	15.1	65.3	s.	11	4.9		0	0			0	0	blue sky	C. J. Macgregor, M A.
Sydney, C. B*	30.33	770.4	30.40	772.1	53	11.7	69	sw.	20	8.9		8 c	0	w.		0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.84	757.9	30.22	767.6	58	14.4	64	e.	5	2.2		5 cs	hz.	w.		0	0	fair	Magnetic Observatory.
Windsor, N. S																			Prof. W. R. Butler, M.A.
Woodstock, Ontario	29.11	739.4	30.16	766.1	54.5	12.5	91	se.	19	8.5		2 cs	0	w.		0	0	blue sky	Prof Wolverton, M.A.
Yarmouth, N. S*	30.44	773.2	30.51	774.9	51	10.6	83	sw.	1	0.4		5 cs	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Clouds. Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.02	762.5	30.05	763.3	63.0	17.2	77	w.	10.7	4.8		0	3 k			0.020	0.5	hazy	John Duffie
Springbok Fontein	28.08	713.2			50	10.0	86	sw.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.61	752.0	29.72	754.8	77.4	25.2	35	se.			2		4			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.78	756.5	29.81	757.1	68.0	20.0	77	sse.	6.3	2.8		0	0			0	0	clear	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.08	764.0	30.13	765.2	72.1	22.3	29	s.	13	6			0						Oversergent Fischer.
Fanoe	30.19	766.7	30.21	767.2	61.7	16.5	53	nnw.			6		1						Overloerer Lauridsen.
Godthaab, Greenland	29.72	755.0	29.77	756.1	35.2	1.8	96	s.			4		10					light rain	S. Kleinschmidt.
Jacobshavn, Greenland	29.69	754.0	29.73	755.2	38.8	3.8		calm			0		4						
Stykkisholm, Iceland	30.05	763.3	30.10	764.4	42.8	6.0	84	nw.			6		8						A. O. Thorlacius.
Thorshavn	30.17	766.4	30.20	767.0	49.6	9.8	71	w.	16	7			3						Overloerer Bergh.
Vestervig	30.11	764.9	30.21	767.2	54.1	12.3	79	nw.			6		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.80	756.8			93.6	34.2	29	e.	6.5	2.9		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.42	747.2	30.06	763.4	72.3	22.4	72	wsw.			1	ck	0			0	0		M. Labroue, Director.
Alençon, Normal School	29.46	748.2	30.01	762.2	73.0	22.8	60	ese.			3	0	5 k		wsw.	0	0	stormy	M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.90	759.4	29.98	761.4	77.0	25	65	w.			1	0	0			0	0		M. Girand, Director.
Bar-sur-Seine	29.44	747.8	29.98	761.5	69.6	20.9	69	se.			1	0	5 kn		e.	0.039	1.0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.76	755.8	30.01	762.3	75.6	24.2	51	ene.			3		0			0	0	clear	M. Frère Eugène Marié.
Besançon, Normal School	29.11	739.4	29.98	761.4	70.7	21.5	91	sse.			1		10 n		nw.	0.12	3.	raining	M. Gobin, Director.
Bordeaux, Observatory	29.59	751.5	29.84	757.9	69.6	20.9	81	ne.			1		8		ssw.	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.38	746.2	29.90	759.5	78.8	26	44	ene.			2		k		ene.	0.402	10.2		M. Malet, Director.
Brest, Naval Observatory	29.72	754.8	29.96	761.0	71.6	22.0	75	ne.			3		0			0	0		M. de Kermarée, Dir.
Caen, Normal School	29.86	758.4	29.93	760.2	72.3	22.4	66	e.			2		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.54	750.4	29.85	758.2	78.4	25.8	64	e.			2		2		e.	0.067	1.7	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.50	749.4	30.00	761.9	82.0	27.8	42	ne.			1		5			0	0	stormy	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.57	725.6	29.84	758.0	81.3	27.4	33	s.			1		2			0.043	1.1	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.12	739.6	29.95	760.8	75.2	24	69	ne.			1		3		e.	0.217	5.5		M. de Villemontée, Dir.
Commercy, Normal School	29.18	741.1	30.01	762.2	69.6	20.9	54	e.			1		n	e.	e.	0.177	4.5		Dr. Coulet, Director.
Gap, Normal School	27.49	698.2	29.89	759.2	75.2	24	47	calm			0		1		s.	0.24	6.		M. Jeangirard, Director.
Gréasque, du Rhone	26.95	735.4	29.95	760.8	80.1	26.7	47	sw.			1		5		sw.	0	0		M. Kina, Director.
Grenoble: Normal School	29.14	740.2	29.87	758.7	80.6	27	49	wnw.			1	ck	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.35	720.0	29.89	759.1	78.8	26	62	nw.			1	ck	0	se.		0	0		M. Delorme, Dir.
Lamballe, Normal School	29.86	758.4	30.13	765.2	75.2	24	70	e.					k		e.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.28	743.7	29.82	757.5	76.5	24.7	52	e.			1	0	5 k			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.79	756.6	29.89	759.2	79.9	26.6	56	ene.			2		2	e.		0.354	9.0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.91	734.4	29.93	760.2	76.5	24.7	46	sse.			2		5			0.402	10.2	fair	M. André, Director.
Mans, Normal School	29.64	752.8	29.93	760.3	75.0	23.9	69	ese.			4		5		se.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.71	754.7	29.98	761.4	72.7	22.6	77	w.			1		8		w.	0	0		M. Stephan, Director.
Montlouis	24.85	631.1	29.69	754.1	62.6	17.0	18	sw.	5.6	2.5			3	se.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.85	758.1	29.97	761.2	72.3	22.4	80	sw.			2		2		se	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.25	742.9	30.01	762.3	70.2	21.2	77	wnw.			1		kn			0.173	4.4		M. Hasse, Director.
Nantes, Observatory	29.75	755.7	29.91	759.8	81.0	27.2	49	ese.			1-2	0	3 k		ese.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.84	757.9	29.95	760.7	68.2	20.1	74	ne.	9.4	4.2			10		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.28	540.4			45.3	7.4		sw.			1		5		sw.	0.055	1.4	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.92	734.5	29.94	760.4	74.8	23.8	60	s.			3		2		s.	0.201	5.1	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.18	639.5			57.7	14.3	76	se.			1		2			0.031	0.8	¾ covered	M. Alluard.
Rochefort, Naval Obs'y	29.82	757.5	29.85	758.3	83.5	28.6	43	se.			1		0			0.94	24.	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.60	751.9	29.81	757.1	81.0	27.2	44	e.			4		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.82	706.6	29.87	758.6	73.4	23.0		se.			3	1 ck	0			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.96	761.0	30.01	762.2	78.4	25.8	50	w.			2		2	w.		0	0	slightly cl'dy	M. Mouillot, Dir.
Saint Maur, Observatory	29.82	757.5	29.98	761.6	77.7	25.4	53	ne.			1		5		ese.	0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.19	741.5	29.91	759.8	73.8	23.2	59	sse.			3		5	sw.		0	0	cloudy	M. Baillaud, Director.
Tours	29.72	755.0	29.90	759.5	78.8	26.0	51	ene.			1		2	ese.	e.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.50	749.3	29.99	761.8	76.6	24.8	54	e.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.68	753.9	29.83	757.7	82.0	27.8	42	e.	5.8	2.6		0	6 k		w.	0	0		M. Cartier, Director.
GERMAN.																			
Anshach	28.60	726.3	29.96	760.9	82.0	27.8	30	e.			2		2	e.		0	0		Prof. Jnedt.
Bamberg	29.15	740.5	30.00	761.9	78.3	25.7	40	ne.			4	0	2 k		ne.	0	0		Prof. Dr. Hoh.
Berlin	29.93	760.2	30.07	763.7	81.7	27.6	44	ne.			1		6			0	0		Dr. Sensch.
Breslau	29.57	751.1	30.10	764.6	76.5	24.7	25	ne.			3		3			0	0		Royal University Obs'y
Carlsruhe	29.54	750.3	29.98	761.4	79.0	26.1	45	nne.			1		9	s.		0	0		Albert Senz.
Cassel	29.32	744.7	30.04	763.9	83.5	28.6	34	ne.			6		2	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.97	761.1	83.1	28.4	32	ne.			1		2			0	0		Physical Society.
Friedrichshafen	28.58	726.0	29.95	760.6	72.0	22.2	73	sw.			2		4	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.02	762.5	30.11	764.8	77.2	25.1	53	e.			3		0			0	0		E. Preller.
Kiel	30.13	765.2	30.14	765.6	69.3	20.7	50	nne.			2		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.65	753.1	30.05	763.3	80.8	27.1	24	ene.			2		3	e.		0	0		H. Leppig, Asst.
Magdeburg	29.86	758.4	30.04	763.0	81.7	27.6	42	nne.			1		1			0	0		Weather Observatory.
Memel	30.09	764.2	30.13	765.4	72.1	22.3	27	n.			4	0	3 k						Issermann.
Munich	28.20	716.3	30.06	763.6	75.2	24.0	29	e.			4		2	e.		0	0		Central Station.
Neufahrwasser	29.94	760.5	29.96	760.9	60.4	15.8	77	n.			2		1			0	0		A. Lothes.
Neustadt, Palatinate	29.43	747.5	29.95	760.8	82.4	28.0	38	e.			2		4	e.		0	0		Dicknether.
Stuttgart	29.02	737.2	29.87	758.7	79.3	26.3	47	n.			1		5	e.		0	0	lightning	Prof. Dr. Schoder.
Wustrow	30.16	766.1	30.19	766.8	73.8	23.2	41	ene.			2		0			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.50	749.3	29.87	758.8	74.7	23.7		nw.			2.0		6 k			0.437	11.1	thunder	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.55	750.5	29.60	751.8	89.1	31.7	79	w.	24.0	10.7			2		w.	0	0	d. clouds	
Deesa	29.06	738.2	29.51	749.5	107.2	41.8	18	wnw.	13.0	5.8			0			0	0	blue sky	
Bombay	29.64	752.8	29.68	753.8	88.1	31.2	73	w.	12.0	5.4			9	w.	w.	0	0	d. clouds	
Poona, Yarrowda	27.84	707.0	29.66	753.3	85.3	29.6	62	wnw.	22.0	9.8			6			0.65	16.5	d. clouds	
Trichinopoly	29.48	748.7	29.75	755.6	99.1	37.3	32	w.	1.0	0.4			6	nne.	ne.	0.04	1.0	d. clouds	
Belgaum	27.20	691.1	29.75	755.6	79.8	26.6	86	e.	9.0	4.0			9		w.	0	0	d. clouds	
Lahore	28.65	727.8	29.35	745.4	108.3	42.4	20	e.	4.0	1.8			3			0	0	blue sky	
Roorkee	28.55	725.1	29.39	746.6	105.3	40.7	30	calm	7.0	3.1			0			0	0		
Agra	28.89	733.8	29.41	747.0	112.1	44.5	14	s.	4.0	1.8			2		s.	0	0	d. clouds	
Nagpur	28.49	723.7	29.51	749.5	88.7	31.5	50	sw.	8.0	3.6			10		sw.	0.10	2.5	overcast	
Jubbulpore	28.17	715.5	29.46	748.2	103.8	39.9	18	nw.	6.0	2.7			3		n.	0	0	d. clouds	
Lucknow	29.12	739.6	29.47	748.6	104.4	40.2	34	ne	2.0	0.9			0			0	0	blue sky	
Allahabad	29.14	740.2	29.43	747.6	106.6	41.4	18	calm	0	0			0			0	0	blue sky	
Patna	29.38	746.3	29.56	750.9	86.2	30.1	55	n.	5.0	2.2			8	n.	n.	0.03	0.8	d. clouds	
Hazaribagh	27.54	699.4	29.48	748.8	89.7	32.1	37	ssw.	6.9	3.1			7	ssw.	nne.	0	0		
Cuttack	29.46	748.2	29.53	750.2	90.9	32.7	65	w.	8.0	3.6			2			0	0	d. clouds	
Calcutta, Alipore	29.54	750.2	29.56	750.7	85.5	29.7	68	sse.	7.0	3.1			1			0.34	8.6	d. clouds	
Dhubri	29.46	748.2	29.58	751.2	83.5	28.6	85	calm	1.0	0.4			8	wsw.		0.45	11.4	d. clouds	
Chittagong	29.55	750.5	29.64	752.8	84.7	29.3	80	w.	3.5	1.6			6			0	0	blue sky	
Sibsagar	29.25	742.9	29.58	751.2	87.9	31.1	74	sw.	2.0	0.9			8	sw.	sw.	0	0	d. clouds	
Jeypore	28.08	713.2	29.44	747.9	104.3	40.2	29	wnw.	7.3	3.3			0			0	0	misty	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Zanzibar	29.96	761.1	29.99	761.7	85.2	29.6	66	se.	6.6	3.0	.....	.....	2	.....	.....	0	0	d. clouds	
Bellary	28.24	717.3	.....	.....	83.0	28.3	56	W.	10	4.5	.....	4 ck	0	.....	.....	0	0	gloomy	
ITALIAN.																			
Udine	29.59	751.6	29.98	761.6	82.8	28.2	51	sw.	1.8	0.8	.....	.....	6	.....	.....	0.020	0.5	.....	Prof. Giovanni Clodig.
Milan	29.51	749.5	30.01	762.2	80.8	27.1	45	sw.	.....	.....	.....	.....	5	sse.	.....	0	0	.....	Prof. G.V.Schiapparelli.
Padua	29.89	759.3	30.00	762.0	78.6	25.9	47	se.	2.5	1.1	.....	.....	1	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.08	738.6	29.96	760.9	75.2	24.0	60	nnw.	2.5	1.1	.....	.....	4	ne.	.....	0.453	11.5	.....	Prof. F. F. Denza.
Genoa	29.83	757.7	30.02	762.5	72.9	22.7	65	sw.	3.8	1.7	.....	.....	2	sw.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.15	714.9	30.00	762.1	71.4	21.9	59	e.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.92	760.0	29.97	761.2	72.7	22.6	86	ne.	7.4	3.3	.....	.....	2	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.74	755.3	29.98	761.6	78.8	26.0	58	w.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.86	758.5	29.94	760.5	72.5	22.5	68	w.	1.3	0.6	.....	.....	2	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.82	757.4	29.99	761.7	78.4	25.8	51	w.	1.8	0.8	.....	.....	4	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.71	754.7	29.96	760.9	72.9	22.7	61	nne.	12.5	5.6	.....	.....	2	ne.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.10	739.1	29.95	760.8	80.2	26.8	69	wsw.	1.3	0.6	.....	.....	2	sw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.74	755.5	29.93	760.2	77.2	25.1	54	se.	.....	.....	4	.....	7	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.77	756.1	30.02	762.4	71.1	21.7	62	ne.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.90	759.4	29.94	760.5	73.0	22.8	66	nne.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.50	749.3	30.01	762.3	73.6	23.1	76	s.	3.1	1.4	.....	.....	4	w.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.32	567.0	.....	.....	47.1	8.4	69	sw.	.....	.....	2	.....	10	.....	.....	0.114	2.9	misty	Prof. P. F. Denza.
Valdobbia	22.33	567.1	.....	.....	48.7	9.3	72	e.	.....	.....	2	.....	8	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.77	756.0	29.80	756.9	55.7	13.2	95	W.	.....	.....	2	.....	10 ck	.....	w.	0	0	cloudy	H. Hattori.
Awomori	29.68	753.9	29.71	754.6	52.8	11.6	85	W.	6.7	3.0	.....	0	2 ks	.....	.....	0	0	fair	K. Ogawa.
Hamamatsu	29.74	755.4	29.77	756.1	66.5	19.2	66	W.	.....	.....	4	5 cs	0	w.	.....	0	0	fair	Y. Sekigawa.
Kanazawa	29.76	755.8	29.86	758.4	59.1	15.1	93	wsw.	5.5	2.4	.....	0	0	.....	.....	0	0	clear	S. Endo.
Kagoshima	29.83	757.7	29.84	758.0	64.4	18.0	80	nw.	.....	.....	2	.....	10 s	.....	.....	0	0	cloudy	G. Miyanonaza.
Kioto	29.66	753.4	29.83	757.8	62.3	16.8	81	s.	1	0.4	.....	0	5s;ck	.....	.....	0	0	fair	M. Tojima.
Kochi	29.82	757.5	29.84	758.0	67.4	19.7	87	nnw.	2.4	1.1	.....	0	6 s	.....	.....	0	0	fair	K. Kusunose.
Miasaka	29.82	757.5	29.85	758.2	64.4	18.0	90	e.	.....	.....	1	1 cs	8 s	w.	w.	0	0	cloudy	K. Masusaki.
Miyako	29.58	751.3	29.69	754.1	60.8	16.0	63	W.	2.0	0.9	.....	1 ck	0	.....	.....	0.004	0.1	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.64	752.8	29.84	757.9	61.7	16.5	87	calm	0	0	.....	0	7 s	.....	.....	0	0	cloudy	S. Takehayashi.
Niigata	29.81	757.2	29.84	757.9	60.6	15.9	84	W.	8.5	3.8	.....	0	0	.....	.....	0	0	clear	M. Morita.
Nobiru	29.74	755.3	29.75	755.7	61.6	16.4	74	nnw.	7.0	3.1	.....	0	7 s	.....	.....	0	0	fair	H. Midzushima.
Numazu	29.76	755.9	29.79	756.7	63.0	17.2	85	wnw.	.....	.....	1	0	9 s	.....	.....	0	0	cloudy	R. Kaneda.
Osaka	29.81	757.1	29.82	757.5	63.5	17.5	79	n.	3.8	1.7	.....	7 cs	1 s	.....	.....	0	0	cloudy	H. Omura.
Sakai	29.84	757.8	29.85	758.0	57.4	14.1	85	calm	.....	.....	0	0	0	.....	.....	0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	29.72	754.8	29.79	756.6	64.2	17.9	85	sw.	3.5	1.5	.....	0	5s;ck	.....	sw.	0	0	fair	The Staff.
Wakayama	29.76	755.9	29.81	757.2	64.5	18.1	64	nw.	1.5	0.7	.....	3 ck	7 ck	w.	w.	0	0	cloudy	K. Sakai.
Shimonoseki	29.70	754.4	29.85	758.2	61.9	16.6	89	calm	.....	.....	0	0	3 s	.....	.....	0	0	fair	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.89	759.2	30.08	764.0	76.0	24.4	79	e.	8.5	3.8	.....	0	4 k	.....	e.	0.15	3.8	fair	The Staff.
MEXICAN.																			
Guanajuato	23.69	601.8	29.91	759.8	61.0	16.1	72	ne.	inap.	inap.	.....	3 ck	0	nne.	.....	0	0	fair	Prof. Vicente Fernandez.
Leon	24.33	618.0	29.97	761.2	60.8	16.0	80	nne.	0.9	0.4	.....	0	7 ck	.....	ne.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.67	753.7	29.93	760.2	73.5	23.1	93	ese.	0.9	0.4	.....	5 cn	0	se;nw	.....	0	0	fair	F. Quijano, U. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Y. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Sub-series.																			
Altata	.....	.....	.....	.....	67.0	19.4	93	e.	7.5	3.4	.....	0	0	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.11	764.9	30.11	764.9	67.1	19.5	.....	nne.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.10	764.6	30.16	766.0	59.5	15.3	.....	nne.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Helder	30.17	766.3	30.17	766.3	57.6	14.2	.....	ne.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.12	765.1	30.12	765.1	69.3	20.7	65	ene.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.09	764.3	30.14	765.5	67.1	19.5	70	nne.	.....	.....	4	.....	0	.....	.....	0	0	clear	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.2	.....	.....	81.0	27.2	70	nne.	0	0	.....	.....	3	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	30.21	767.2	30.27	768.8	50.7	10.4	88	wnw.	7	3	.....	.....	10	.....	.....	0.374	9.5	raining	
Brono	29.97	761.2	30.01	762.2	47.5	8.6	88	sw.	.....	.....	0	.....	10	.....	.....	0.484	12.3	.....	
Ohristiania	29.89	759.1	30.03	762.7	71.6	22.0	38	sw.	4	2	.....	.....	2	.....	.....	0	0	.....	
Gjæsvær	30.05	763.3	30.08	763.9	55.0	12.8	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.82	757.3	29.86	758.5	62.1	16.7	54	calm	.....	.....	0	.....	8	.....	.....	0.236	6.0	.....	
PORTUGUESE.																			
Angra, Azores	29.94	760.4	30.10	764.4	62.6	17.0	68	nne.	13.6	6.1	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.93	734.9	29.92	760.0	61.9	16.6	72	s.	7.4	3.3	.....	.....	10	.....	.....	0.370	9.4	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.89	759.1	29.97	761.3	66.7	19.3	70	wsw.	14.3	6.4	.....	.....	3	wnw.	.....	0.075	1.9	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.56	750.8	29.89	759.3	56.7	13.7	97	wsw.	13.0	5.8	.....	.....	10	.....	.....	0.094	2.4	light rain	The Staff.
Ponta Delgada, Azores	29.99	761.7	30.06	763.5	64.4	18.0	59	nne.	15.0	6.7	.....	.....	3	wnw.	.....	0	0	.....	
Saint Paul de Loando	29.82	757.3	30.02	762.4	76.3	24.6	94	nnw.	.....	.....	1	.....	10	.....	.....	0	0	.....	
San Salvador	28.16	715.3	30.02	762.6	70.3	21.3	86	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Serra da Estrella	25.15	638.7	29.89	759.2	44.6	7.0	87	sse.	11.9	5.3	.....	.....	10	.....	.....	0.866	22.0	foggy	
RUSSIAN.																			
Akmolinski	28.74	729.9	29.81	757.2	49.1	9.5	89	ene.	22	10	.....	.....	10 n	.....	.....	inap.	inap.	.....	Major K. Lasarew.
Archangel	30.08	763.9	30.10	764.4	75.6	24.2	20	n.	4	2	.....	0	0	.....	.....	0	0	.....	Capt. Sseliwerstow.
Ashurada	29.95	760.6	29.85	758.2	81.9	27.7	77	wnw.	11	5	.....	0	1 n	.....	.....	0	0	.....	
Astrakhan	29.95	760.6	29.86	758.5	76.3	24.6	35	nw.	11	5	.....	0	8 k	.....	.....	0	0	.....	Capt. Wisganow.
Baku	29.94	760.5	29.89	759.3	73.8	23.2	71	sse.	9	4	.....	0	1 ks	.....	.....	0.008	0.2	.....	
Barnaul	29.29	743.9	29.78	756.5	48.7	9.3	86	nw.	2	1	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y
Bielosersk	29.68	753.9	30.14	765.5	64.6	18.1	45	nnw.	4	2	.....	1 c	0	.....	.....	0	0	.....	
Dorpat	29.86	758.4	30.09	764.3	71.4	21.9	55	e.	7	3	.....	0	1 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.18	741.1	30.13	765.4	59.0	15.0	34	calm	0	0	.....	0	1 s	.....	.....	0	0	.....	Meteorological Obs'y
Elissawetgrad	29.58	751.3	30.02	762.4	68.9	20.5	58	se.	4	2	.....	0	8 sn	.....	.....	0.240	6.1	.....	
Irkutsk	27.85	707.3	29.38	746.3	71.6	22.0	44	sse.	.....	.....	2	.....	9	.....	.....	0	0	.....	
Kasalinsk	29.29	743.9	29.47	748.4	73.4	23.0	49	n	9	4	.....	.....	10 k	.....	.....	.....	.....	.....	
Kasan	29.79	756.7	30.06	763.6	55.4	13.0	55	ene.	13	6	.....	.....	10	.....	.....	blank	blank	.....	Observatory.
Kem	30.00	762.0	30.05	763.3	70.3	21.3	31	e.	22	10	.....	.....	0	.....	.....	0	0	.....	
Kertch	29.91	759.7	29.93	760.3	69.3	20.7	54	ne.	9	4	.....	0	1 s	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	29.34	745.2	29.95	760.8	69.8	21.0	47	ene.	2	1	.....	0	4 k;ks	.....	.....	0	0	.....	Obse. vatory.
Koslov	29.46	748.2	30.00	762.0	46.4	8.0	96	nne.	11	5	.....	.....	10 n	.....	.....	0.122	3.1	light rain	
Libau	30.11	764.8	30.13	765.4	61.2	16.2	59	nw.	9	4	.....	.....	0	.....	.....	0	0	.....	E. Quass.
Lugan	29.73	755.1	29.91	759.7	63.9	17.7	51	nnw.	13	6	.....	.....	6	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.56	750.9	30.03	762.7	61.2	16.2	33	ne.	2	1	.....	0	4 k	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.91	759.0	29.98	761.5	78.8	26.0	52	ne.	4	2	.....	0	2 k	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.93	760.3	30.02	762.5	34.9	1.6	87	calm	0	0	.....	.....	10	.....	.....	blank	blank	.....	Iwanow.
Pekin, China	29.57	751.0	29.71	754.6	69.6	20.9	46	se.	3.4	1.5	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.47	748.6	29.80	756.9	89.1	31.7	25	nw.	4.5	2.0	.....	4 cs	0	.....	.....	0	0	.....	
Petrozavodsk	29.91	759.6	30.10	764.4	65.8	18.8	42	se.	11	5	.....	1 ck	0	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.53	750.0	30.00	762.1	75.7	24.3	49	calm	0	0	.....	0	7 ks	.....	.....	0.118	3.0	.....	
Poti	29.83	757.6	29.86	758.4	76.1	24.5	83	s.	9	4	.....	.....	10 n	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
St. Petersburg	30.08	764.0	30.10	764.6	70.3	21.3	27	wnw.	4	2		3 ck	0			0	0	light clouds	Central Physical Obs'y.
Samarkand	27.45	697.3	29.76	755.9	86.5	30.3	29	calm	0	0		0	0			0	0		
Semipalatinsk	29.17	741.0	29.83	757.6	54.5	12.5	91	nw.	13	6			10			0.047	1.2		Major Lasarew
Sevastopol	29.70	754.3	29.91	759.8	77.2	25.1	45	wsw.	20	9		3 ck	0			0	0		
Staroi Bykhov	29.63	752.6	30.08	763.9	69.4	20.8	51	ese.	9	4		cs	7 kn			0	0		
Tashkend	28.15	715.1	29.71	754.5	86.5	30.3	32	calm	0	0		0	6 kn			0	0		
Tiflis	28.47	723.2	29.83	757.6	75.6	24.2	72	calm	0	0			10 n			0.039	1.0		Tercb, A. M. Physical Observatory.
Vernoe	27.26	692.4	29.61	752.3	77.7	25.4	60	sw.	4	2		0	6 k			0	0		
Viatka	29.50	749.3	30.12	765.0	62.8	17.1	39	e.	7	3			0			0	0		
Warsaw	29.63	752.5	30.03	762.7	76.3	24.6	32	nne.	9	4		0	4 k			0	0		Astronomical Obs'y.
Yeniseisk	29.53	750.0	29.82	757.3	46.6	8.1	76	w.	2	1			6			inap.	inap.		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.26	768.6	52	11.1	93	ne.			3	3	3	ne.		0	0	light clouds	J. Youngclause
North Unst			30.24	768.1				w.			4	3	3	sw.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.88	758.9	29.98	761.6	67.5	19.7	72	e.	5.4	2.4		0	8			0	0	almost cov...	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.73	755.1	29.79	756.6	83.1	28.4	40	s.	2.7	1.2			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.96	684.7	29.83	757.6	66.6	19.2	68	sw.	8.7	3.9			9			0.295	7.5	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.6	29.92	760.0	65.1	18.4	73	sw.	17.2	7.7			10			0.902	22.9	covered	The Staff.
Murcia, Met. Obs'y	29.75	755.7	29.86	758.4	79.5	26.4	59	sse.	5.6	2.5		2	1	wnw.		0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	28.99	736.4	29.75	755.7	60.8	16.0	94	se.	6.7	3.0		8 n	6 n	sw.	sw.	0.201	5.1	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.91	734.3	29.80	756.9	57.4	14.1	84	sw	10.5	4.7			10			1.032	26.2	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.98	761.4	30.04	763.0	78.9	26.1	75	e.	6.7	3.0		1c;cs	k	s.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.8	29.89	759.2	79.0	26.1	91	n.	4.4	2.0			10 n			3.228	82.0	heavy rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.1	30.02	762.6	67.1	19.5	81	s.	14.0	6.3			9		s.	0.051	1.3		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.98	761.6	30.08	763.9	77.7	25.4	97	se.	10.5	4.7		0	5 kn		se.	0.295	7.5	cloudy	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.97	761.3	30.01	762.3	68.0	20.0	54	s.			4		3			0	0		
Umea	29.97	761.2	30.02	762.5	57.7	14.3	67	sw.			4		6			0	0		
Hernosand	29.92	759.9	29.97	761.2	61.5	16.4	64	sw.			2		6			0.008	0.2		
Stockholm	29.85	758.3	30.03	762.8	76.3	24.6	47	sw.			2		10			0	0		
Wisby	29.98	761.6	30.04	763.1	64.8	18.2	54	w.			2		7			0	0		
Sub-series.																			
Upsala	29.92	760.0	30.01	762.2	72.9	22.7	48	sw.	13.9	6.2			9			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.58	726.0	29.97	761.1	70.0	21.0	65	nne.			4		4			0	0	cloudy	The Observatory.
TURKISH.																			
Constantinople			29.89	759.3	85.6	29.8	76	nne.	10	4.5			10		n.	0	0		The Observatory.
Valona			30.11	764.7	73.0	22.8		w.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.97	761.3	81.5	27.5	66	sw.			3		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.76	679.7			60	15.6	84						10 n		calm			rainy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.34	770.6	30.42	772.7	64.5	18.1	59	s.	8	3.6		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.34	745.2	29.99	761.7	54	12.2	80	se.	10	4.5		0	2 s			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.82	757.4	43	6.1	63	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.20	690.9	29.99	761.7	42	5.6	82	s.	2	0.9		2 k	0	s.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.04	737.6	30.19	766.8	65.5	18.6	81	e.	12	5.4		6 k	2 k		e.	0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.30	769.6	30.31	769.9	60	15.6	100	se.	9	4.0			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.07	763.8	30.26	768.6	68.0	20.0	72	e.	2	0.9		0	1 s			0	0	clear	John Healy.
Baltimore, Maryland	30.28	769.1	30.33	770.4	62	16.7	87	e.	6	2.7			10 s			0	0	threatening.	Geo. W. Felger.
Barnegat City, New Jersey	30.32	770.1	30.34	770.6	59.0	15.0	90	se.	10	4.5		10 cs	0			0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.11	764.8	30.13	765.3	39.5	4.2	89	s.	5	2.2			10 n		s.	0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.56	725.4	30.10	764.5	48.0	8.9	71	se.	4	1.8			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.25	692.1	30.02	762.5	48	8.9	58	calm	0	0		0	0			0.10	2.5	clear	S. Wheaton.
Billings, Montana	26.86	682.2	30.00	762.0	45	7.2	63	calm	0	0		0	2 s			0.02	0.5	clear	T. Gibson.
Bismarck, Dakota	28.33	719.6	30.09	764.3	42	5.6	82	e.	4	1.8		5 c	0	sw.		0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.41	772.4	30.44	773.2	58	14.4	80	se.	12	5.4		2 ck	5 s	sw.	s.	0	0	fair	J. T. Elker.
Boise City, Idaho	27.24	691.9	30.02	762.5	49.5	9.7	82	n.	3	1.3		2 k	0			0.17	4.3	clear	J. Kenealy.
Boston, Massachusetts	30.29	769.4	30.44	773.2	60.0	15.6	70	se.	4	1.8		0	1 s;hz			0	0	clear	O. B. Cole.
Brownsville, Texas	29.95	760.7	29.99	761.7	80.0	26.7	82	s.	2	0.9		3 cs	1 s	s.	s.	0	0	fair	E. C. Imlay.
Buffalo, New York	29.47	748.5	30.21	767.3	62.4	16.9	48	se.	10	4.5		2 c	0	w.		0	0	clear	W. Finn.
Buford, Fort, Dakota	28.01	711.4	29.97	761.2	48	8.9	68	sw.	8	3.6		0	0			0	0	clear	A. Schneider.
Burlington, Vermont	30.05	763.3	30.34	770.6	59.0	15.0	60	s.	13	5.8		0	0			0	0	clear	D. N. Farnell.
Cairo, Illinois	29.67	753.0	30.06	763.5	69.7	20.9	86	sw.	6	2.7			10 ks		sw.	0.02	0.5	threatening.	W. H. Ray.
Cape Henry, Virginia	30.22	767.6	30.24	768.1	67.0	19.4	90	e.	14	6.3			10 s		s.	0.10	2.5	cloudy	A. K. Alderson.
Cape May, New Jersey	30.25	768.3	30.28	769.1	62.0	16.7	90	e.	11	4.9			10 s			0.03	0.8	cloudy	W. E. Smith.
Cape Mendocino, California	29.51	749.5	30.19	766.8	51	10.6	100	se.			1		fg.		se.	0.02	0.5	light fog	J. J. McLean.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	75	23.9	90	ne.	10	4.5		0	9 k		e.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.17	766.3	30.22	767.6	71.0	21.7	76	ne.	7	3.1		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.20	767.1	69.0	20.6	60	nw.	4	1.8		4 ck	fg.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.18	766.6	70.0	21.1	70	s.	8	3.6		3 cs	3 ks		s.	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	29.87	758.7	43.4	6.3	76	nw.	3	1.3		4 c	0	w.		0.23	5.8	fair	E. McGovern.
Chicago, Illinois	29.17	740.9	29.86	758.4	67.5	19.7	76	sw.	9	4.0			10 s		sw.	0	0	cloudy	John Laurens.
Chincoteague, Virginia	30.26	768.6	30.28	769.1	68	20.0	93	se.	10	4.5			10s;fg		se.	inap.	inap.	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.43	747.5	30.08	764.0	70.0	21.1	66	se	5	2.2		0	9 ks		sw.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.39	746.5	30.12	765.0	63.7	17.6	51	se.	15	6.7		2 k	0	sw.		0	0	clear	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.00	762.0	65	18.3	90	ne.	3	1.3		0	9 s			0.21	5.3	cloudy	T. J. Kenan.
Columbus, Ohio	29.26	743.2	30.10	764.5	65	18.3	58	se.	6	2.7		5 k	0	w.		0	0	fair	D. Cuthbertson.
Concho, Fort, Texas	28.12	714.2	29.99	761.7	65.2	18.4	90	ne.	4	1.8			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.25	742.9	29.89	759.2	55	12.8	86	sw.	10	4.5			10 n		sw.	0.69	17.5	light rain	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.85	758.2	65	18.3	48	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.37	720.6	30.11	764.8	46.5	8.1	68	s.	3	1.3		7 k	0	sw.		0	0	fair	D. Moore.
Deadwood, Dakota	25.45	646.4	29.89	759.2	47	8.3	80	ne.	2	0.9		0	0			0.06	1.5	clear	F. Willson.
Delaware Breakwater, Del	30.29	769.4	30.31	769.9	59	15.0	100	e.	12	5.5			10 s		e.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.81	630.2	29.85	758.2	52.0	11.1	74	s.	2	0.9		0	0			0.11	2.8	clear	F. M. Neal.
Des Moines, Iowa	29.11	739.4	29.99	761.7	51	10.6	86	n.	7	3.1			10 s		n.	0.36	9.1	cloudy	F. W. Conrad.
Detroit, Michigan	29.35	745.5	30.04	763.0	66.0	18.9	68	se.	20	8.9		0	3 k		se.	0	0	clear	E. R. Brace.
Dodge City, Kansas	27.44	697.0	29.95	760.7	52	11.1	86	s.	8	3.6		0	6 k		w.	0	0	fair	D. J. Carr.
Dubuque, Iowa	29.14	740.1	29.83	757.7	58.5	14.7	90	w.	2	0.9			10 n			1.10	27.9	thund'r st'm	J. Harvey Smith.
Duluth, Minnesota	29.31	744.5	30.04	763.0	48	8.9	80	nw.	10	4.5			10 s		nw.	0.37	9.4	cloudy	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.02	762.5	76.2	24.6	64	se.	4	1.8			10 s		se.	inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.34	643.6	29.93	760.2	42	5.6	70	s.	1	0.4			10 s		sw.	0	0	cloudy	H. R. Boynton.
Eastport, Maine	30.37	771.4	30.44	773.2	62.0	16.7	46	sw.	6	2.7		6 c	0	w.		0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.31	693.7	29.98	761.5	50	10.0	66	calm	0	0		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.25	666.7	29.84	757.9	71.0	21.7	11	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.44	747.8	30.16	766.1	63	17.2	56	se.	18	8.0		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.21	741.9	29.86	758.4	52.0	11.1	94	s.	2	0.9			fg.			0.45	11.4	dense fog	George Heathcote.
Galveston, Texas	30.07	763.8	30.11	764.8	71	21.7	84	n.	40	17.9			10 n		n.	0.01	0.3	light rain	E. O'C. Macnerney.
Grand Haven, Michigan	29.22	742.2	29.87	758.7	67.3	19.6	84	se.	7	3.1			10 s		se.	0	0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.24	641.1	29.78	756.4	57.9	14.4	30	n.	7	3.1		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.23	767.8	30.25	768.3	71	21.7	90	se.	22	9.8			10 s		se.	1.47	37.3	threatening.	R. M. Crawford.
Helena, Montana	25.87	657.1	29.99	761.7	46	7.8	63	sw.	2	0.9		0	0			0.02	0.5	clear	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.76	730.5	30.10	764.5	40	4.4	72	n.	4	1.8		5 cs	0	n.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	29.96	761.0	68.4	20.2	78	s.	7	3.1			10 s			0.01	0.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.03	762.7	77.4	25.2	92	se.	8	3.6		8 k	0	sw.		0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.12	765.0	30.16	766.1	73.5	23.2	82	e.	3	1.3		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.54	699.5	29.97	761.2	46	7.8	71	calm	0	0		2 k	2 s			inap.	inap.	fair	W. B. Lamar.
Keokuk, Iowa	29.34	745.2	29.98	761.5	55.0	12.8	80	w.	10	4.5			10 s		w.	0.60	15.2	cloudy	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	79.0	26.1	65	e	9	4.0		3 cs	2 ks		e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.25	768.3	30.27	768.8	68	20.0	100	se.	13	5.8			10 ks;fg		se.	0.47	11.9	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.17	740.9	30.18	766.6	66.4	19.1	66	e.	4	1.8		5 c	0			0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.88	758.9	50	10.0	77	nw.	16	7.2			10 s		nw.	0.35	8.9	cloudy	S. C. Emery.
Leavenworth, Kansas	29.24	742.7	30.11	764.8	51	10.6	72	nw.	4	1.8		0	0			0.15	3.8	clear	A. W. Browne.
Lewiston, Idaho	29.28	743.7	30.10	764.5	50.0	10.0	72	ne.	1	0.4		3 k	0	w.		0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.72	754.9	30.03	762.7	67	19.4	90	calm	0	0			10 s			0.53	13.5	cloudy	W. U. Simons.
Los Angeles, California	29.67	753.6	30.06	763.5	55	12.8	96	calm	0	0			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.47	748.5	30.02	762.5	71	21.7	82	se.	6	2.7			10 s		sw.	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.48	748.8	30.14	765.5	61	16.1	85	ne.	8	3.6			10 s		ne.	0.89	22.6	threatening	Lou's Duane.
Mackinaw City, Michigan	29.25	742.9	29.89	759.2	63.0	17.2	81	s.	10	4.5			10 s		s.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.20	767.1	30.22	767.6	70.0	21.1	94	s.	13	5.8		0	9 s		s.	4.90	124.5	cloudy	William Daly.
Maginnis, Fort, Montana	25.65	651.5	29.98	761.5	43	6.1	47	w.	8	3.6		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.16	740.7	29.88	758.9	44	6.7	93	se.	2	0 9			fg.			0.78	19.8	dense fog	J. Gilligan.
Memphis, Tennessee	29.71	754.6	30.04	763.0	72	22.2	82	calm	0	0			10 s		s.	0.12	3.0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.07	738.4	29.81	757.2	56	13.3	86	s.	7	3.1		0	9 ks		sw.	inap.	inap.	cloudy	W. Line.
Missoula, Fort, Montana	26.86	682.2	30.12	765.0	52	11.1	61	ne.	1	0.4		5 k	0	n.		0	0	fair	J. H. Young.
Mobile, Alabama	30.06	763.5	30.10	764.5	77.3	25.2	90	se.	6	2.7		2 c	0	sw.		0	0	clear	C. A. Read.
Montgomery, Alabama	29.87	758.7	30.10	764.5	72.8	22.7	74	s.	3	1.3		3 ck	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.12	739.6	30.09	764.3	40	4.4	83	n.	2	0.9		0	0			0	0	clear	H. White.
Mt. Washington, N. H.	24.17	613.9	30.29	769.4	40.0	4.4	38	sw.	40	17.9		1 c	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.49	749.0	30.05	763.3	71.0	21.7	84	se.	4	1.8		0	8 k		sw.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.30	769.6	30.41	772.4	54.5	12.5	86	e.	3	1.3			10 s		ne.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.40	772.1	30.45	773.4	57	13.9	74	ne.	12	5.4			10 s		s.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.10	764.5	73.0	22.8	84	w.	4	1.8			10 ks		ne.	0.98	24.9	cloudy	M. Herman.
New York, New York	30.23	767.8	30.40	772.1	57	13.9	86	ne.	7	3.1			10s;fg		se.	0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	30.21	767.3	30.24	768.1	70	21.1	84	se.	8	3.6		0	6 s			0.16	4.1	clearing	Wm. Davis.
North Platte, Nebraska	27.18	690.4	29.98	761.5	51.6	10.9	78	e.	6	2.7		0	0		sw.	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.14	765.5	30.18	766.6	45.0	7.2	93	s.	4	1.8			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.95	735.3	30.09	764.3	47.0	8.3	68	nw.	2	0.9		0	0			0.50	12.7	clear	A. Pollak.
Ooglaamie, Alaska	29.81	757.2	29.82	757.4	25.0	— 3.9	97	n.	8	3.6		0	8k ks		nnw.	inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.94	760.5	30.26	768.6	59.0	15.0	60	s.	12	5.4		0	0			0	0	clear	J. G. Linsley.
Palestine, Texas	29.54	750.3	30.08	764.0	65.0	18.3	93	s.	8	3.6			10 s		sw	3.68	93.5	cloudy	J. W. Byram.
Pensacola, Florida	30.10	764.5	30.13	765.3	76.2	24.6	85	se.	7	3.1		0	3 k		s.	0	0	clear	M. McGauran.
Philadelphia, Pa	30.27	768.8	30.37	771.4	59.5	15.3	100	ne.	6	2.7			10 s		ne.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.96	456.2	29.78	756.4	22	— 5.6	80	w.	28	12.5		0	0			0.10	2.5	clear	H. Hull.
Pioche, Nevada	24.09	611.9	29.89	759.2	57.5	14.2	24	n.	5	2.2		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.41	747.0	30.20	767.1	58.5	14.7	75	calm	0	0		5 k	0	s.		0	0	fair	W. A. Reid.
Poplar River, Montana																			W. D. Maxwell.
Port Huron, Michigan	29.36	745.7	30.03	762.7	64.0	17.8	68	se.	12	5.4		5 k	0	s.		0	0	fair	M. H. Perry
Portland, Maine	30.39	771.9	30.44	773.2	60.0	15.6	54	w.	7	3.1		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.10	764.5	30.16	766.1	51.2	10.7	93	s.	4	1.8			10 s		s	0.03	0.8	cloudy	M. L. Hearne.
Portsmouth, N. C.					72	22.2	90	s.	14	6.3			10 s			5.05	128.3	cloudy	F. P. Chaffee.
Prescott, Arizona	24.80	629.9	29.82	757.4	46.0	7.8	48	sw.	3	1.3		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.43	772.9	30.46	773.7	65	18.3	63	se.	12	5.4		0	2 s			0	0	clear	C. N. Kitchel.
Punta Rassa, Florida	30.08	764.0	30.09	764.3	74.5	23.6	85	ne.	8	3.6		3 c	0			inap.	inap.	clear	W. J. Evans.
Red Bluff, California	29.79	756.7	30.14	765.5	61	16.1	65	s.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.59	751.6	30.24	768.1	60	15.6	50	s.	14	6.3		0	0			0	0	clear	E. W. McGann.
Roseburg, Oregon	29.62	752.3	30.17	766.3	54.3	12.4	88	calm	0	0			10 s		sw.	0.01	0.3	threatening	J. J. Nanry.
Sacramento, California	30.10	764.5	30.17	766.3	54.5	12.5	83	s.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.44	747.8	30.03	762.7	60.4	15.8	97	w.	12	5.4			10 s		w.	inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.73	755.1	29.70	755.9	39	3.9	89	ne.	4	1.8		0	9 s		ne.	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.15	740.4	29.99	761.7	47.0	8.3	86	n.	10	4.5			10 s		n.	0.86	21.8	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.28	743.7	30.13	765.3	38	3.3	89	nw.	1	0.4		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.70	652.8	29.92	760.0	58	14.4	40	se.	4	1.8			10 s			0	0	cloudy	J. Craig.
San Antonio, Texas	29.35	745.5	30.03	762.7	70	21.1	78	e.	1	0.4		0	5 s			0.27	6.9	fair	J. H. Davis.
San Diego, California	29.90	761.0	30.03	762.7	61.0	16.1	84	w.	3	1.3			10 s		w.	0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.36	771.1	30.39	771.9	57.0	13.9	93	e.	17	7.6			10 s			0	0	cloudy	B. A. Blundon.
Sanford, Florida	30.08	764.0			80	26.7	79	se.	3	1.3		0	0			0	0	clear	J. B. Marbury.
San Francisco, California	30.14	765.5	30.21	767.3	55.5	13.1	90	nw.	8	3.6		1 cs	fg.	nw.		0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.30	591.8	29.81	757.2	50	13.3	32	e.	16	7.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.13	765.3	30.22	767 6	74	23.3	82	ne.	8	3.6		0	hz.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	29.98	761.5	44	6.7	68	w.	9	4.0		0	0			0.06	1.5	clear	A. L. Mathews.
Shreveport, Louisiana	29.81	757.2	30.04	763.0	66.8	19.3	93	s.	8	3.6			10 s		s.	1.13	28.7	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.85	732.8	30.05	763.3	56.5	13.6	82	n.	8	3.6		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.65	753.1	29.71	754.6	43.5	6.4	71	e	3	1.3			10 s		e.	0.18	4.6	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.61	752.1	30.07	763.8	66.5	19.2	84	calm	0	0			10 s		w.	0.50	12.7	cloudy	J. B. Campbell.
Smithville North Carolina	30.19	766.8	30.23	767.8	69	20.6	84	sw.	4	1.8		1 c	0			2.76	70.1	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.09	713.5	30.13	765.3	50.4	10.2	80	sw.	1	0.4		5 c	2 s	s.		0	0	fair	John F. Hemenway.
Springfield, Illinois	29.30	744.2	29.98	761.5	59	15.0	75	w.	11	4.9			10 s		w.	0.03	0.8	cloudy	T. B. Jennings.
Starkville, Miss	29.64	752.8	30.10	764.5	71	21.7	84	se.	1	0.4		4 c	4 s	w.		0.33	13.5	cloudy	C. Dill.
Stockton, Fort, Texas	26.98	685.3	29.90	759.4	67	19.4	78	s.	1	0.4		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.21	691.1	29.84	757.9	55	12.8	47	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.35	745.5	30.03	762.7	67	19.4	59	se.	11	4.9		3 cs	4 ks	sw.	sw.	0	0	fair	A. Buell.
Tucson, Arizona	27.54	699.5	29.84	757.9	60	15.6	46	s.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.92	760.0	29.94	760.5	41	5.0	82	sw.	8	3.6		0	6 s			0.09	2.3	fair	Samuel Applegate.
Verde, Fort, Arizona					53	11.7	33	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.82	757.4	30.07	763.8	68.0	20.0	86	se.	5	2.2		2 cs	5 s		se.	0.55	14.0	fair	James Kenealy.
Visalia, California	29.75	755.6	30.12	765.0	56.4	13.6	62	nw.	4	1.8		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.54	623.3	29.92	760.0	41.6	5.3	81	ne.	2	0.9		0	3 k			0	0	fair	T. M. Ambler.
Washington, D. C.	30.18	766.6	30.29	769.4	60.4	15.8	95	ne.	5	2.2			10s;fg			0.06	1.5	clear	B. M. Purssell.
West Las Animas, Colorado	26.11	663.2	29.88	758.9	56	13.3	64	se.	12	5.4		1 cs	0			0.02	0.5	clear	F. H. Brandenburg.
Williamsport, Pa	29.74	755.4	30.34	770.6	58.5	14.7	62	e.	5	2.2			10 ks			0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.17	766.3	30.22	767.6	67	19.4	90	sw.	1	0.4		2 c	0			5.18	131.6	clear	Samuel A. Haney.
Winnemucca, Nevada	25.73	653.5	29.99	761.7	49	9.4	68	sw.	10	4.5		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.81	731.8	30.09	764.3	44	6.7	68	n.	1	0.4		0	0			0.30	7.6	clear	J. H. Atfield.
Yuma, Arizona	29.70	754.4	29.84	757.9	65.7	18.7	90	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			29.98	761.5	81	27.2	69	n.	1	0.4		9 cs	1 s			0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	79	26.1	87	e.			2	5 ck	5 k	e.		0.200	5.1	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.34	745.2	29.90	759.4	80	26.7	95	calm			0	5 c	5 k	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	92	ne.			1		10 ks		ne.	0.60	15.2	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	30.11	764.8	30.17	766.3	34.5	1.4	95	nw.	12	5.4		2 c	1 s	w.	nw	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 43° 30′ E. 16° 26′	29.96	761.0	75	23.9	77	wsw.			1		2	wsw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.33	770.4	72	22.2	90	ene.			3		4	ene.						d. clouds.
H. M. S. Flamingo, N. 33° 30′, W. 64° 20′	30.40	772.1	75	23.9	86	ene.			3		1	ene.				1	ene.	blue sky.
H. M. S. Gannet, N. 11° 55′, W. 17° 55′	30.02	762.5	80	26.7	87	ene.			3–4		7	n.				3	var.	d. clouds.
H. M. S. Himalaya, N. 37° 43′, E. 9° 10′	29.89	759.2	74	23.3	55	ene.			5		4					6	ene.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.96	761.0	76	24.4	95	nw.			2–4		0							blue sky.
H. M. S. Minotaur, Vigo Bay, Spain	29.83	757.7	62	16.7	66	ssw.			3		8							d. clouds.
H. M. S. Opal, N. 17° 27′, W. 24° 43′	30.15	765.8	74	23.3	76	e.			3		6	ene.				5	nne.	d. clouds.
H. M. S. Satellite, N. 45° 09′, W. 11° 19′	29.70	754.4	60	15.6	76	nne.			1		7	nne.				1	wsw.	d. clouds.
H. M. S. Tyne, N. 10° 55′, W. 52° 52′	30.05	763.3	80	26.7	96	e.			5–6		3	e.				5	e.	squally.
H. M. S. Thetis, N. 10° 30′, W. 22° 00′	30.07	763.8	79	26.1	86	ene.			2		6	nne.				3	n.	d. clouds.
H. M. S. Tenedos, St. Johns, N.F	30.27	768 8	55	12.8	62	wsw.			2		8	sw.						d. clouds.
H. S. M. S. Eugenie, N. 55° 22′, E. 4° 53′	30.27	768.8	50.5	10.3	87	n.			3		1							blue sky.
U. S. Navy Yard, Portsmouth, N.H.*	30.40	772.1	59	15.0	76	calm	0	0			0			0	0			clear.
U. S. S. Lancaster, Kronstadt, Russia	30.17	766.3	75	23.9	56	e.			2		2		calm			sm'h		fair.
U. S. S. Nipsic, New York, N. Y			59	15.0	88	ne.			2		10							overcast.
U. S. S. Portsmouth, Newport, R.I	30.49	774.4	59	15.0	100	se.			2		8		se.					fair.
U. S. S. Powhatan, Port Royal, S.C	30.19	766.8	75	23.9	90	e.			1		2							clear.
U. S. S. Quinnebaug, Grand Bassa, West Africa	30.03	762.7	82	27.8	83	w.			1		10		w			sm'h	w.	cloudy.
U. S. S. Saratoga, New York, N.Y	30.42	772.7	58	14.4	?	s.			2–3		10		ne.	light	light	sm'h		misty.
U. S. S. Vandalia, New York, N.Y	30.39	771.9	59	15.0	94	se.			2		10							overcast.
S. S. Inchkeith N. 35° 20′, W. 41° 24′	30.39	771.9	70.5	21.4	73	wnw.			4		4							d. clouds.
H. P. M. S. Rio Lima, Porta Praya, Cape Verd Islands			77.0	25.0	84	ne.			2		0					3	se.	d. clouds.
S. S. British Prince, N. 40° 17′, W. 66° 31′ †	30.47	773.9	77	25.0		e.			2					0	0	sll't	e.	cloudy.
S. S. Illinois, Philadelphia, Pa	30.34	770.6	64	17.8		ene.			4		10		nne.					overcast.
S. S. Lord Clive, N. 45° 00′, W. 44° 04′						nnw.			4		9		nnw.	4 h'r	4 h'r	sll't	nnw.	cloudy.
S. S. Lord Gough, N. 38° 54′, W. 72° 50′	30.25	768.3	61	16.1		ese.			4		10		ese.	0	0	sm'h		cloudy.
S. S. Ohio, N. 39° 45′, W. 57° 12′ †	30.49	774.4	61	16.1		ne.			4		1		nne.	0	0	sm'h	ne.	clear.
S. S. Pennsylvania, N. 47° 39′, W. 29° 06′ †	29.99	761.7	57	13.9		wsw.			3		2			0	0	mod.	wsw.	clear.
S. S. Grecian, Galway, Ireland	30.15	765.8	61	16.1	77	e.			1		0			0	0			clear.
S. S. Polynesian, N. 54° 05, W. 24° 31′	30.09	764.3	56	13.3		sse.			4		8		sse.	0	0	mod.	sse.	cloudy.
S. S. Prussian, N. 54° 14′, W. 23° 07′	29.99	761.7	56	13.3		ese.			4		8		sse.	6 h'r	6 h'r	mod.	e.	cloudy.
S. S. Manitoban, N. 53° 00′, W. 30° 10′	29.69	754.1	48	8.9	92	s.			5		8		s.	12 h'r	12 h'r	mod.	s.	raining.
S. S. Sardinian, N. 54° 38′, W. 22° 36′	30.06	763 5	55	12.8		se.			4		9		se.	0	0	mod.	se.	cloudy
S. S. Alvo, Crooked Island Passage, Bahamas *	30.05	763.3	78	25.6		e.			5–6		6		e.	0	0	short	ese.	fine.
S. S. Anchoria, N. 53° 13′, W. 24° 16′ †	30.09	764.3				sse			3		6		sse.	0	0	sm'h		hazy
S. S. Assyria, N. 43° 20′, W. 41° 23′			60.5	15.8		n.			6		5		n.	1 h'r	1 h'r	mod.	n	fine.
S. S. Dorian, N. 50° 13′, W. 5° 14′	30.19	766.8	60	15.6		ene.			6					0	0	mod.	e.	fine.
S.S. Devonia, N. 42° 35′, W. 55° 50′ *†	30.51	774.9	49	9.4		nw.			2		10		wnw.			sll't	wnw.	cloudy.
S. S. Furnesia, N. 51° 46′, W. 17° 42′ †	30.00	762.0	57.2	14.0	93	e.			4		1		e.	0	0	mod.	e.	clear.
S. S. Elysia, N. 43° 00′, W. 54° 20′	30.45	773.4	49.5	9.7		ne.			3		7		ene.	0	0	sm'h		cloudy.
S. S. Carroll, N. 43° 08′, W. 66° 51′			53	11.7	?	sw.			2		0			0	0	long	sw.	clear.
S. S. Jerome, N. 14° 25′, W. 56° 02′			78	25.6	?	ene.			5–6		8		ene.	2 h'r	2 h'r	r'gh	ene.	showery.
S. S. Llandaff City, N. 42° 43′, W. 48° 01′			51	10.6		nnw.			5		10		ne.	0	0	mod.	w.	overcast.
S. S. Marathon, Palermo, Sicily	30.07	763.8	71	21.7		ene.			4		4		ene.	0	0	sm'h	ane.	fine.
S. S. Rhiwindda, N. 51° 17′, W. 7° 47′ *†	29.97	761.2	56	13.3		ene.			4		8		ene.	0	0	sm'h	ene.	fine.
S. S. France, N. 41° 26′, W. 48° 18′ †	30.26	768.6	53.6	12		n.			5		8		nw.	rain	rain	sm'h	nw.	
S. S. Ville de Marseilles, N. 38° 45′, W. 28° 55′ *	30.12	765.0	61	16.1		n.			4		8		nnw.	8 h'r	8 h'r	h'vy	nnw.	cloudy.
S. S. Arizona, N. 46° 55′ W. 36° 19′	29.83	757.7	55	12.8		wnw.			4		8		nw.	4 h'r	4 h'r	mod.	nw.	cloudy.
S. S. Wyoming, N. 42° 26′ W. 53° 16′	30.46	773.7	49	9.4		nnw.			2		6		nnw.	0	0	long	w.	fair.
S. S. Bohemia, N. 41° 07′, W. 68° 05′						se.			5		hz.		se.	0	0	sm'h	se.	hazy.
S. S. Gellert, N. 49° 46′, W. 14° 10′	30.03	762.7	61	16.1	82	ne			4		9		e.	0	0	mod.	ne.	covered.
S. S. Rugia, Hamburg, Germany	30.08	764.0	85	29.4		ne.			3		1			0	0			clear.
S. S. Silesia, N. 29° 53′, W. 51° 12′	30.46	773.7	73	22.8		e.			2		4		e.	0	0	2	ene.	fair.
S. S. Wieland, N. 40° 30′, W. 57° 09′	30.54	775.7				ene.			2		8		ne.	0	0	sm'h	ne.	fine.
S. S. City of Paris, New York, N. Y *	30.31	769.9				nne.			2		10		ne.	0	0			hazy.
S. S. Mentmore, N. 44° 05′, W. 46° 52′ *†	30.32	770.1				wnw.			5		10		nw.	2 h'r	2 h'r	mod.	nw.	gloomy.
S. S. Bulgarian, N. 52° 01′ W. 6° 42′ *	30.21	767.3				ne.			1				e.	0	0			clear.
S. S. Virginian, Boston Bay, Mass			60	15.6		s.			5		10		wsw.	1 h'r	1 h'r	sm'h		rain & fog.
S. S. Archimedes, N 38° 01′ W. 72° 01′	30.28	769.1				ese.			1		5		wsw.	1 h'r	1 h'r	sm'h		hazy.
S. S. Ptolemy, N. 10° 30′, W. 27° —	30.05	763.3	78.1	25.6	86	ene.			4		6 k		nw.	0.30	7.6	2	ne.	fair.
S. S. Colorado, N. 28° 20′, W. 79° 47′ †	30.20	767.1	75	23.9		sse.			3		2		ese.	0	0	h'vy	nne.	clear.
S. S. Rio Grande, N. 26° 12′, W. 87° 00′ *†	30.05	763.3	81	27.2		e.			2		2		e.	0	0	mod.	ese.	clear.
S. S. Chalmette, Algiers, La †	30.21	767.3	72	22.2		nnw.			3		10		sse.	1 h'r	1 h'r			cloudy.
S. S. Hermod, N. 5° 15′, W. 44° 36′ †	29.92	760.0	79	26.1		s.			2		4		se.	0	0	long	e.	fair.
S. S. Archimede, Marseilles, France †	30.06	763.5	74	23.3	63	sw.			2		3		sw.	0	0			clear.
S. S. City of Merida, N. 18° 40′, W. 92° 45′ †	30.04	763.0	84	28.9		ne.			3		2		ne.	0	0	mod.	ne.	clear.
S. S. City of Washington, N. 21° 20′, W. 89° 38′ †	30.13	765.3	81	27.2		ne.			3		5		e.	0	0	sm'h		fair.
S. S. Denmark, N. 49° 20′, W. 170° 20′ †	30.04	763.0	65	18.3		ene.			5		2		ne.	0	0	sm'h		clear.
S. S. England, N. 48° 06′, W. 28° 23′	30.02	762.5	55	12.8		s.			2		0			0	0	mod.	w.	clear.
S. S. Erin, N. 40° 32′, W. 70° 50′	30.51	774.9	53	11.7		ese.			4		9		se.	0	0	mod.	se.	cloudy.
S. S. Helvetia, Liverpool, Eng	30.19	766.8	70	21.1	90	ese.			4		2		ese.	0	0			clear.
S. S. The Queen, N. 40° 31′, W. 70° 21′	30.40	772 1	56	13.3	87	ese.			2		10		se.	0	0	mod.	ese.	cloudy.
S. S. Braunschweig, N. 49° 13′, W. 19° 04′	30.01	762.2	75 5?	24.2?	58	ne.			3		7		ne.	0	0	mod.	var.	fair.
S. S. Elbe, N. 48° 07′, W. 27° 01′	30.00	761.9	57	13.9	81	sse.			5–6		4		sse.	0	0	mod.	sse.	fair.
S. S. Hohenzollern, N. 46° 50′, W. 21° 06′	29.99	761.7	60	15.6		ne.			3		2		ne.	1 h'r	1 h'r	mod.	nw.	clear.
S. S. Main, N. 41° 34′, W. 63° 57′	30.55	776.0	50	10.0		calm			0		1			0	0			clear.
S. S. Neckar, N. 48° 01′ W. 22° 02	30.03	762.7	60.0	15.6	79	e.			3		6		e.	0	0	sm'h	e.	fair.
S. S. Ohio, N. 39° 12′, W. 51° 12′	30.45	773.4				nne.			5		6		n.	1 h'r	1 h'r	light	nne.	fair
S. S. Salier, N. 49° 38′, W. 35° 45′ *	29.81	757.2	53	11.7	73	n.			6		8		nne.	4 h'r	4 h'r	cross	wnw.	cloudy.
S. S. Strassburg, N. 39° 22′, W. 65° 32′	30.48	774.2	68.5	20.3	74	e.			2		3		e.	0	0	2	e.	clear.
S. S. Werra, N. 44° 02′, W. 42° 10′	30.15	765.9	57	13.9		w.			2		5		nw.	0	0	light	wsw.	fair.
S. S. Weser, N. 48° 03′, W. 20° 45′	30.03	762.7				ene.			3		5		e.	½ h'r	½ h'r	mod.	e.	fair.
S. S. City of Augusta, N. 33° 44′, W. 77° 36′ †	30.28	769.1				ne.			3		6		nne.	0	0	r'gh	ese.	fair.
S. S. Colon, New York, N. Y †	30.46	773 7	58	14.4		ne.			6		10			0	0			overcast.
S. S. Muriel, off Sombrero, W. I	30.11	764.8	80	26.7		e.			4		2		e.	7 h'r	7 h'r	r'gh	e.	clear.
S. S. Orinoco, N. 32° 39′, W. 65° 07′ †	30.38	771.6	75	23.9		e.			4		3		e.	0	0	light	e.	clear.
S. S. Rhynland, N. 48° 40′, W. 24° 00′	30.08	764.0	56	13.3	94	e.			4		3		ne.	0	0	sm'h		clear.
S. S. Pennland, N. 40° 41′, W. 70° 11′ †	30.42	772.7	54	12.2	61	ese.			3		2		ese.	0	0	sm'h	ese.	clear.
S. S. Switzerland, N. 44° 19′, W. 40° 18′ †	30.14	765.5				nnw.			3		8		w.	6 h'r	6 h'r	mod.	nnw.	cloudy.
S. S. Waesland, N. 50° 19′, W. 23° 53′	30.11	764.8	69?	20.6?		ne.			4		2		ene.	0	0	sm'h	ne.	clear.
S. S. Leerdam, N. 49° 20′, W. 12° 25′	29.90	759.4	61	16.1	88	ene.			5		6		e.	0	0	mod.	e.	fair.
S. S. Rotterdam, N. 40° 48′, W. 53° 05′	30.48	774.2	59	15.0	76	nne.			4		5		ne.	0	0	4	nne.	fair.
S. S. W. A. Scholten, Rotterdam, Holland	30.14	765.5	66.1	18.9	84	ene.			6		0			0	0			clear.
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	81	27.2	91	ne.			3		10		ne.	shr's	shr's	mod.	nne.	hazy.
S. S. Valencia, N. 32° 37′, W. 71° 29′ †	30.48	774.2	78	25.6	86	se.			4		5		ene.	0	0	hv'y	se.	fair.
S. S. State of Georgia, N. 40° 57′, W. 57° 53′ †	30.60	777.2	60	15.6		nnw.			3		0			0	0	sm'h		clear.
S. S. State of Indiana, N. 55° 22′, W. 10° 02′ *†	30.25	768.3	50	10.0		ne.			3		2		ne.	0	0	sll't	n.	clear.
S. S. State of Nevada, N. 43° 27′, W. 45° 53′ †	30.37	771.4	52	11.1		nnw.			5		10			1 h'r	1 h'r	mod	w.	overcast.
S. S. Thingvalla, N. 58° 34′, W. 60 28′ †	30.27	768.8	53.6	12.0		w.			2		2		w.	0	0	mod.	w.	clear.
S. S. Oregon, N. 51° 23′, W. 21° 26′			51	10.6		e.			2		9		e.			light		cloudy.
S. S. Olbers, N. 21° 12′, W. 22° 47′ †	30.20	767.1	78	25.6	65	ne.			3		4		ene.	0	0	sll't	nne.	fair.
S. S. Daniel Steinmann, Antwerp Belguim †	30.07	763.8	73	22.8		nne.			3		0			0	0			clear.
S. S. Aries, N. 40° 00′, W. 73° 40′ *†	30.30	769.6				ese.			4		10		se.	0	0	long	se.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Norman, N. 42° 04′, W. 70° 15′	30.40	772.1				ssw.			1		0			0	0	sm'h		clear.
S. S. Saxon, N. 41° 10′, W. 71° 22′†	30.41	772.4				sse.			6									fine.
S. S. Adriatic, N. 41° 12′, W. 53° 33′*†	30.56	776.2	58	14.4		nne.			4		8		ne.	0	0	slt't.	n.	cloudy.
S. S. Baltic, N. 50° 23′ W. 23° 40′*	30.04	763.0	55	12.8	87	s.			4		8		s.	0	0	slt't	w.	cloudy.
S. S. Britannic, off Stays, Ireland †	30.21	767.3	58	14.4		e.			2		2		e.	0	0	sm'h	ene.	clear.
S. S. Iowa, N. 44° 09′, W. 42° 43′†	30.10	764.5	58	14.4		nw.			4		7		nw.	8 h'r	8 h'r	mod.	nw.	fair.
S. S. Antonio Lopez, Cadiz, Spain	30.00	762.0	68	20.0	77	ssw.			3		5			1 h'r	1 h'r			fair.
Schr. Abbie H. Gheen, Jacksonville, Fla†	30.30	769.6	77	25.0		nne.			1									clear.
Bg. Alcira, N. 19° 20′, W. 74° 14′	30.06	763.5	83	28.3		e.			3		3		ene.	0	0	mod.	ne.	clear.
Schr. Arthur Burton, St. Simons Island, Ga†	30.25	768.3				ene.			2		2		e.	0	0	sm'h		fine.
Bk. Aureola, N. 37° 32′, W 52° 19′†	30.40	772.1	73	22.8		nne.			6		4		n.	1 h'r	1 h'r	long	nne.	fair.
Bk. Arda, Wood Point, N. B.						sw.			8		0			0	0			clear.
Bk. Alba, N. 46° 59′, W. 48° 40′*†	30.32	770.0	36.5	2.5		nnw.			5					0	0		n.	
Bgt. Achsah, N. 35° 51′, W. 71° 33′†	30.31	769.9	75	23.9		sse.			1		2		se.	0	0	long	wsw.	clear.
S. S. Burswell, N 48° 58′, W. 5° 12′ *†	29.95	750.7	62	16.7		ne.			4		0			0	0	st'g	ne.	fine.
Bg. Belle of the Bay, Galveston, Texas†	30.11	764.8				n.			7		10		ne.	1 h'r	1 h'r			rainy.
Schr. C. R. Flint, N. 24° 55′, W 79° 00′.†	30.12	765.0	79	26.1		e.			4		2		se.	0	0			clear.
Bk. Childwall, N. 41° 16′, W. 28° 04′			64	17.8		nne.			3		5		nne.	0	0	light	nw.	fine.
Bk. Cato, Bodöe, Norway*†	30.00	762 0				nne.			2									
S. Criterion, N. 51° 45′, W. 27° 40′*†	29.68	753.9				s.			4		10		nw.	sh'rs	sh'rs	long	w.	heavy rain.
Schr. Clotilde, N. 22° 15′, W. 97° 74′ *†	29.95	760.7	83	28.3		se.			4		5		se.	0	0	rg'h	se.	fair.
S. David Steward, N. 20° 12′, W. 36° 06′ †	30.19	766.8				ene.			5		1		ene.	0	0	mod.	ene.	clear.
S.S.D. J. Foley, Port Maria, Jamaica, W. I*†	29.95	760.7	82	27.8	91	e.			2		2		e.	0	0			clear.
Bkt. David A. Preston, Navassa, W. I.						se.			4		5		se.	0	0	long	se.	
S. E. J. Spicer, N. 50° 54′, W. 11° 43′	30.07	763.8	59	15.0	100	ese.			5		5		ese.	0	0	mod.	nw.	fair.
Bk. E. D. Bigelow, N. 51° 10′, W. 10° 02′ *†	30.00	762.0	65	18.3		ene.			5		1		ene.	0	0	cross	ene.	hazy.
U. S. Fish. Com. S. S. Fish Hawk, Washington, D. C†	30.25	768.3	63	17.2	89	e.			2		10		calm	0	0			cloudy.
Schr. F. E. Waters, Chesapeake bay *†	30.35	770.9				ene.			2				e	6 h'r	6 h'r	sm'h		
Bk. George Davis, N 54° 36′ W. 9° 53′						ene.			4				e.	0	0		nne.	
Bgt. George, N. 38° 40′, W. 71° 00′*†	30.38	771.6	70	21.1		sse.			2		10			0	0	mod.	se.	clearing.
Bk. Galeon, N. 20° 54′ W. 90° 33′ †	30.08	764.0	78	25.6		ene.			2		0			0	0	sm'h	ne.	blue sky.
Bk. Heinrich & Tonio, N. 49° 21′, W. 7° 09′ †	29.94	760.5	60	15.6		ene.			5		0			0	0	light	e.	clear.
S. Hedwig, N. 36° 04′, W. 4° 00′	29.99	761.7	68.7	20.4	83	wnw.			6		1			0	0	2	nnw.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C†	30.21	767.3	74	23.3		ne.			4		2		n.	0	0			fair.
Bk. Johanne, N. 36° 37′ W. 8° 43′*†	29.85	758.2	69	20.6		ssw.			4		8		sw.	0	0	sm'h		hazy.
Schr. John L. Thomas, N. 19° 40′, W. 74° 34′*†	30.10	764.5				ene.			3		1		ese.	¼h'r	¼h'r	mod.	ene.	clear
Bg. John Wesley, N. 35° 36′, W. 56° 19′*†	30.38	771.6	74	23.3		nw.			1		6			0	0	long	n.	fair.
Schr. Jennie N. Huddell, N. 33° 40′, W. 77° 40′†	30.12	765.0	74	23.3	90	sw.			1		10		sw.			h'vy	se.	cloudy.
Bkt. Kryolith, Ivigtut, Greenland *†	29.76	755.9				nw.			3		2		w.	0	0			clear.
Light House Tender, Laurel, Pensacola Bay, Fla†	30.11	764.8	76	24.4		e.			2		5		se.	0	0			fair.
Bg. Lilian, N. 23° 36′ W. 67° 15′†	30.15	765.8	83	28.3		ese.			3		3		se.	1 h'r	1 h'r	mod.	e.	fair.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.06	763.5	76	24.4		se.			1		2			0	0			fair.
Bk. Milo, N. 45° 50′, W. 25° 47′†	30.00	762.0				calm			0				nw.			high	nw.	clear.
S. S. Madrid, Point Porman, Spain†	29.97	761.2	72	22.2	72	sse.			4		0			0	0	mod.	ssw	fair.
Schr. Minnie A. Bonsall, Hoboken, N. J†	30.42	772.7	74	23.3		e.			2				se.	2 h'r	2 h'r			cloudy.
Bk. Matilda C. Smith, N. 45° 45′, W. 23° 05′						e.			2		6		e.	0	0	sm'h	wnw.	fine.
Bgt. Myrtle, Barbadoes, W. I *†	30.07	763.8				e.			6				e.	0	0			fair.
Bk. Matthias, N. 49° 27′, W. 11° 06′*†	30.15	765.8	60	15.6		ene.			4		8		e.	0	0	cross	sse.	hazy.
Schr. Maggie Abbott, N. 32° 40′, W. 69° 57′†	30.35	770.9				se.			6		3		sse.	0	0	mod.	se.	clear.
Bk. National Eagle, N. 38° 48′, W. 49° 53′						n.			5		2		nnw.	1 h'r	1 h'r	mod.	nw.	fair.
Bg. O. C. Clary, N. 37° 24′, W. 72° 05′ *†	30.30	769.6				sse.			1		0					sm'h	s.	clear.
Bk. Ottawa, N. 49° 27′, W. 9° 57′	29.98	761.5	58	14.4		ene.			6		5		ene.	0	0	short	e.	fair.
S. Paramitta, N. 4° 35′, W. 31° 34′†	29.93	760.2	81	27.2		n.			3		6		nne.	3 h'r	3 h'r	long	nne.	fair.
S. S. Raleigh, Baracoa, Cuba, W. I†	30.13	765.3	78	25.6		ne.			2					0	0			clear.
Bg. Rising Sun, N. 24° 25′, W. 61° 52′†	30.20	767.1	75	23.9		e.			6		9		e	light	light	short	e.	cloudy.
Bk. Rosino, N. 40° 40′, W. 39° 30′			66	18.9		nw.			6		10		w.	4 h'r	4 h'r	long	nw.	cloudy.
Bk. Sunbeam, N. 39° 25′, W. 57° 04′†	30.52	775.2	63	17.2	83	nne.			6		5		n.	0	0	sm'h		fair.
Bk. Southern Belle, N. 27° 45′, W. 33° 55′†	30.32	770.1	70	21.1		ne.			3		0			0	0	light	ne.	clear.
Bk. Usko, off Durlston Head, Eng*	30.05	763.3	58	14.4	75	ne.			4		6		e.	0	0	mod.	e.	fair.
Bkt. Wandering Jew, Matanzas, Cuba *†	30.04	763.0	81	27.2		ne.			3		4		ne.	1 h'r	1 h'r			fair.
Bgt. Sunlight, N. 35° 50′, W. 72° 08′						sse.			4		5		sse.	0	0	mod.	sw.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay †	29.86	758.4	55	12.8	96	s			6		10	s.				4	s.	squally.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.07	763.8	65	18.3		w.			3-5		4							squally.
H. M. S. Sylvia, Buenos Ayres, La Plata,	29.81	757.2	51	10.6	93	s.			4		10							overcast.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.75	755.6	58	14.4	94	ssw.	12	5.4			10		s.	1.24	31.5	mod.	s.	raining.
U. S. S. Galena, Montevideo, Uruguay*	29.72	754.9	57	13.9	94	ssw.			3		10		ssw.			mod.	ssw.	rainy.
May Hulse, S. 24° 19′, W. 26° 20′	30.11	764.8	68.4	20.2	79	w.			2		6							showery.
Bk. Horace Scudder, S. 6° 41′, W. 26° 00′ *†	30.10	764.5	81	27.2		se.			4		2			0	0	light	se.	fine.
S. Wm. McGilvery, S. 15° 54′, W. 37° 51′ *†	30.20	767.1	80	26.7	70	ese.			3		9?		ssw.	0	0	sm'h		clear.?
May Hulse, S. 24° 19′, W. 26° 20′	30.11	764.8	68.4	20.2	79	w.			2		6							showery.
S. S. Hevelius, S. 6° 30′, W. 32° 00′†	30.20	767.1	79	26.1		se.			6		4		ese.	2 h'r	2 h'r	sm'h		fair.
Bk. Achille F., S. 1° 15′, W. 25° 30′†	30.04	763.0	82	27.8	83	e.			4		4		s.	0	0	long	s.	fair.
Bk. Alpheus Marshall, S. 23° 03′, E. 6° 00′*†	30.07	763.8				ese.			1		5		ese.	0	0	r'gh	sw.	fair.
Bk. Ceylon, S. 34° 07′, E. 16° 14′*†	30.06	763.5	65	18.3	78	w.			6		3		w.	sq'lls	sq'lls	h'vy	w.	clear.
S. Dynomene, S. 30° 20′, E. 15° 26′	30.15	765.8	64	17.8	78	s.			2		2			0	0	mod.	wsw.	misty.
Bk. Adelaide, S. 0° 13′, W. 27° 38′*†	30.06	763.5	82	27.8		sse.			3		1		s.	0	0	mod.	sse.	clear.
H. P. M. S. Duque de Terceiva, Mossamedes, Beng'la	30.02	762.5	73.0	22.8	76	sw.			3		0			0	0	2	sw.	blue sky
District No. 3—North Pacific.																		
H. M. S. Audacious, Yang-tsi-Kiang river, China	29.66	753.4	79	26.1	62	s.			1		2	sw.						misty.
H. M. S. Champion, Labuan Island	29.75	755.6	85	29.4	68	calm			0		10							d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 11′	29.70	755.9	61	16.1	82	s.			1		5	s.						misty.
H. M. S. Magpie, N. 4° 59′, E. 115° 06′	29.86	758.4	82.4	28.0	83	calm			0		8							misty.
H. M. S. Shildrake, N. 9° 50′, E. 117° 48′			77	25.0		w.			1		9					5	w.	raining.
H. M. S. Zephyr, N. 34° 41′ E. 135° 12′	29.86	758.4	62	16.7	?	calm			0		3							d. clouds.
H. P. M. S. Tamega, Macao, China	29.81	757.2	78.8	26.0	80	calm			0		10			0	0			overcast.
U. S. Naval Hospital, Yokohama, Japan	29.85	758.2	65.5	18.6	84	calm			0		5		w.	0	0			clearing.
U. S. S. Adams, Port Mingrave, Alaska			45	7.2	92	ne.			1		10					sm'h		light rain.
U. S. S. Essex, N. 1° 05′, W. 132° 27′	29.86	758.4	79	26.1	82	ese.			2		2		e.			mod.	sse.	clear.
U. S. S. Hartford, Honolulu, Sandwich Ids*	30.02	762.5	75	23.9	81	calm			0		2			0	0			clear.
U. S. S. Monocacy, Salee river, Corea	29.75	755.6	64	17.8	78	sse.			2		8		calm					misty.
U. S. S. Palos, Hong Kong, China	29.08	753.9	75	23.9	90	e.			2		10		e.					cloudy.
U. S. S. Richmond, Hong-Kong, China*	29.70	754.4	76	24.4	91	e.			2		10		e.	0.0	15.			cloudy.
S. S. Arabic, N. 42° 09′, E. 154° 01′			54	12.2	87	s.			4		5		s.	0	0	mod.	se.	fair.
S. S. Oceanic, N. 24° 33′, E. 118° 43′	29.88	758.9	74	23.3	81	nne.			5		8		ne.			light	ne.	cloudy
S. S. Columbia, N. 42° 13′. W. 124° 36′†	30.19	766.8	50.5	10.3	100	s.			2		9		s.			sm'h	ssw.	hazy.
S. S. Oregon, N. 40° 39′, W. 124° 35′†	30.28	769.1	54	12.2	67	calm			0		0							clear.
S. S. Willametta, N. 41° 54′, W. 124° 45′†	30.31	769.9	52	11.1	93	s.			3		6		ssw.	0.31	7.9	long	w.	rain & fog.
S. S. Ancon, San Francisco, Cal†	30.20	767.1	56	13.3	87	wnw.			3		8		w.					cloudy.
S. S. City of Chester, near Point Reyes, Cal †	30.19	766.8	59	15.0	65	nw.			4		fg.							
S. S. Dakota, N. 45° 10′, W. 124° 55′†	30.17	766.3	58	14.4	76	nw.			4		2		nw.			mod.	nw.	clear.
S. S. Queen of the Pacific, Portland, Oregon†	30.18	766.6				se.			2		5			3 h'r	3 h'r			fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. City of Rio de Janeiro, N. 34° 50′, E. 149° 10′ †	29.89	759.2	70	21.1	90	w			3		8		w.	0.3	8.	mod.	wsw.	cloudy.
S. S. Colima, N. 31° 31′, W. 119° 18′ †	30.07	763.8	57	13.9	81	nw.			4		2		nw.	0	0	mod.	wnw.	clear.
S. S. Granada, N. 7° 09′, W. 80° 09′†	29.86	758.4	80	26.7	87	sw.			1		3		sw.	2 h'r	2 h'r	sm'h		clear.
S. S. San Blas, Panama, Panama			79	26.1		nnw.			2		3		n.	0	0			clear.
S. S. Zealandia, Honolulu, Sandwich Ids	30.14	765.5	80	26.7	96	ne.			4		0					sm'h		clear.
S. S. Benledi, Kobe, Japan*	20.75	755.6	66	18.9	68	calm			0		6			0	0	sm'h		fair.
S. S. Radnorshire, N. 34° 37′, E. 139° 04′*†	29.72	754.9				s.			2		hz.			0	0	light	sw.	hazy.
S. Sacramento, N. 15° 00′, E. 119° 15′*†	29.93	760.2	81	27.2	91	ssw.			2		10		s.	1 h'r	1 h'r	gentle	s.	overcast.
Bk. Xenia, Shanghai, China			74	23.3		se.			2					0	0			clear.
H. M. S. Sappho, N. 14° 54′, W. 94° 56′	29.94	760.5	78	25.6	100	nnw.			4		6	n.				5	n.	squally.
U. S. S. Ranger, N. 13° 58′, W. 91° 28′	29.90	759.4	82	27.8	75	ese.			3		10			0	0	long	ese.	overcast.
S. Henry Failing, N. 42° 04′ W. 126° 08′ †	30.15	765.8	57	13.9		nw.			3		10		nw.	0	0	mod.	w.	foggy.
S. Grecian, Yokohama, Japan †	29.82	757.4	67	19.4	89	calm			0		0			0	0			clear
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W *†	30.01	762.2	54	12.2	74	w.			1		3	sw.						d. clouds.
H. M. S. Espiegle, S. 3° 06′, E. 176° 50′	29.93	760.2	84	28.9	64	e.			2		0					1	e.	blue sky.
H. M. S. Kingfisher, S. 24° 45′, W. 128° 51′	30.06	763.5	74	23.3		calm			0		4					sm'h		d. clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.75	755.6	72	22.2	85	calm			0		0							blue sky.
U. S. S. Iroquois, Valparaiso, Chili	30.14	765.5	55	12.8	87	se.			2		8							cloudy.
U. S. S. Lackawanna, S. 23° 29′, W. 98° 18′*	30.13	765.3	67	19.4	60	ese.			4		10		e.			sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru †	30.04	763.0	63	17.2	83	wsw.			1		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.85	758.2	63	17.2	89	ssw.	2	0.9			10			0	0			misty.
U. S. S. Wachusetts, S. 21° 02′, W. 157° 21′	29.97	761.2	74	23.3	90	ne.			1		2		nw.			mod.	ne.	clear.
S. S. Australia, Sydney, N. S. W	29.96	761.0	58	14.4	94	nw.			1		1		w.	0	0			clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.94	760.5	79.3	26.3	89	ne.			1		5					sm'h		d clouds.
S. S. City of Sydney, Sydney, N. S. W*†	29.87	758.7	52	11.1	60	w.			2		5ks		w.					fair
Bk. Chas. Stewart, S. 41° 20′, E. 153° 30′†	29.91	759.7	57	13.9		e.			7		8		e.			r'gh	var.	misty.
S. Parker M. Whitmore, S. 57° 05′, W. 79° 10′ *†	29.08	738.6	37	2.8		w.			7		7		wnw.	rain	rain	cross	w.	squally.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.02	762.5	82	27.8	83	ese.			3		2	ese.				2	sse.	d. clouds.
H. M. S. Tourmaline, N. 7° 45′, E. 74° 00′	29.82	757.4	85	29.4	79	wnw.			2		4	nw.						d. clouds
U. S. S. Enterprise, S. 29° 41′, E. 36° 11′ *	29.90	759.4	75	23.9	90	ene.			3		5		calm			mod.		fair.
U. S. S. Juniata, Bombay, India	29.68	753.9	87	30.6	92	w.			3		10		sw.	0	0	sm'h		cloudy.
S. S. Galatia, N. 26° 23′, E. 34° 54′*†	29.82	757.4	84	28.9		nw.			3		0			0	0			clear.
S. S. Malabar, Bassein, India*†	29.60	751.8				sw.			4		10		sw.	14 h'r	14 h'r	sm'h		heavy rain.
S. Annie M. Law, S. 33° 24′, E. 29° 34′ *†	29.92	760.0	71	21.7		nw.			2		0			0	0	high	sw.	clear.

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

UNITED STATES OF AMERICA

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 4, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.98	761.5	73.0	22.8	83	e.			1		0			0	0	clear	Malaterre.
Algiers			29.87	758.8	75.2	24.0	56	w.			6		0			0	0	clear	Thève.
La Calle			29.94	760.5															Fonfrède.
Tunis			29.98	761.4															Jacques.
Saida			29.98	761.4															Pérès.
Tebessa			29.97	761.1	93.9	34.4	6	W.			5		2			0	0	fair	St. Martin.
Geriville					87.8	31.0	9	sw.			6		3			0	0	pretty fair	Forfert.
Laghouat			29.89	759.2	98.6	37.0	8	se.			9		1			0	0	very fair	Abraham.
Biskra			29.93	760.1	105.8	41.0	13	sw.			3		0			inap.	inap.	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.33	770.4	53.7	12.1	82	s.	3	1.3			1			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.02	762.5	30.11	764.8	49.8	9.9	93	wsw.	19	8.5			10			0.11	2.8	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747.1	29.93	760.3	80.6	27.0	46	se.			2		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.20	741.6	29.93	760.2	77.0	25.0	45	ne.	2.5	1.1			4			0	0		Dr. Wierzbiski
Eperies	29.07	738.3	29.90	759.5	77.0	25.0	38	n.			2	0	4 s		s.	inap.	inap.		Julius Mikolik.
Gratz	28.72	729.6	29.91	759.8	76.3	24.6	61	s.			2		3			0	0		Andreas Rospini.
Hermannstadt	28.55	725.1	29.92	760.0	72.7	22.6	53	s.			2		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.59	726.2	29.86	758.4	78.6	25.9	57	ne.			2	1 ck				0	0	clear	The Staff.
Lemberg	28.97	735.9	29.92	759.9	73.0	22.8	46	ne.			2		6			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.86	758.4	29.96	761.0	82.4	28.0	60	s.			3		2			0	0		I. R. Hydrographic Office.
Szathmar	29.45	747.9	29.89	759.2	77.4	25.2	61	n.			3		6			0.012	0.3		Joseph Midlinszky, S. J.
Szegedin	29.63	752.6	29.90	759.4	75.9	24.4	49	se.			1		4			0	0	lightning	Karl Stancel.
Trieste	29.87	758.6	29.97	761.1	78.1	25.6	49	nw.			1		4			0	0		Royal Academy.
Vienna	29.26	743.2	29.94	760.5	78.8	26.0	50	ne.			1		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.12	765.0	30.22	767.6	57.3	14.1	57	s.	15	6.7			1			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.86	758.4	30.09	764.3	61.2	16.2	48	ene.	12	5.4			0					blue sky	S. Call.
Bidston, Liverpool Obs'y			30.04	763.0	67.1	19.5	39	e.	17	7.6			2					misty	John Hartnup.
Bolton, Sharples	29.52	749.8	30.06	763.5	64.0	17.8	50	e.	18	8.0								blue sky	Thomas Mackereth.
Bradford, Yorkshire	29.73	755.1	30.13	765.3	60.3	15.7	73	nw.			2		3			0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.07	763.8	30.10	764.5	82.0	27.8	75	ne.			3		6					gloomy	Corpl. W. I. Cull, A. H. C.
Cardington	29.91	759.7	30.01	762.2	72.0	22.2	56	ne.			2.0		0					blue sky	John McLaren.
Chatham, School M. E.	29.87	758.7	30.00	762.0	58.4	14.7	87	ne.			4		8					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.66	753.4	29.89	759.2	58.7	14.8	79	e.			4		9					d. clouds	The Staff.
Fort Napier, Natal	27.87	707.9	30.09	764.3	62.0	16.7	51	se.			1		7					d. clouds	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	86.0	30.0	76	n.			1		9					d. clouds	J. W. Smith.
Galway, Queen's College	29.92	760.0	29.96	761.0	67	19.4	64	ne.			3		2			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.95	760.7	30.00	762.0	62.8	17.1	92	nw.			5		9					gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.94	760.5	30.15	765.8	61.8	16.6	49	ene.			4		6					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.81	757.2	29.98	761.5	72.1	22.3	60	ne.			4		0					blue sky	The Staff.
Guernsey	29.58	751.3	29.87	758.7	54.3	12.4	98	ene.			3		10					foggy	A. Collenette, F. M. S.
Kew, Observatory	29.94	760.5	29.98	761.5	67.7	19.8	63	ne.	21	9.4			1					hazy	The Staff.
Leicester, Museum	29.80	756.9	30.05	763.3	65.0	18.3	61	ne.			2							blue sky	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	76.2	24.6	98	se.										blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.18	766.6	83.8	28.8	67	e.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.54	750.3	30.05	763.3	63.5	17.5	61	ne.			5		0					blue sky	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.77	756.1	30.00	762.0	66.9	19.4	64	ne.			4		1					blue sky	The Staff.
Plymouth	29.79	756.7	29.86	758.4	67.0	19.4	74	e.			4		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.11	764.8	30.21	767.3	53.4	11.9	77						4					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.81	757.2	29.88	758.9	78.8	26.0	48	ne.			2		2			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.84	757.9	30.12	765.0	63.7	17.6	58	ne.			3		0			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.08	764.0	30.11	764.8	64.0	17.8	51	e.			4		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.11	764.8	63.0	17.2	42	ene.	16	7.2								blue sky	W. C. Carlisle.
Truro, Royal Institution	29.84	757.9	29.94	760.5	68	20.0	60	e.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	29.88	758.9	29.91	759.7	70.5	21.4	60	e.	6	2.7			4					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.62	752.3	30.02	762.5	78.8	26.0	41	se.	7.5	3.4		2 c		w.		0	0		Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.18	766.6	30.22	767.6	58	14.4	84	sw.	7	3.1			10 s		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.14	765.5	30.20	767.1	59	15.0	75	W.	3	1.3		8 ck	2 k	w.	W.	0	0	fair	G. A. Blair.
Cornwall, Ontario	29.78	756.4	29.97	761.2	64.0	17.8	92	W.			1		10 s			0.091	2.3	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.12	765.0	30.17	766.3	57.5	14.2		e.			1	2 cs	0	ne.		0	0	d. clouds	H. A. Johnson.
Father Point, Quebec*	30.07	763.8	30.09	764.3	54	12.2	83	calm	0	0		5c; s	2 ks	calm	calm	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.21	741.9	30.05	763.3	46	7.8	86	sw.	2	0.9		0	0			0	0	clear	James Stewart.
Fredericton, N. B	30.17	766.3	30.23	767.8	59.5	15.3	80	e.	4	1.8			10 s			0	0	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	29.00	736.6	30.08	764.0	58.0	14.4	100	W.	2	0.9			10 n			0.37	9.4	cloudy	Jas. Grant.
Halifax, N. S*	30.18	766.6	30.31	769.9	57	13.9	86	nw.	4	1.8		10 k	0	w.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.62	752.3	30.01	762.2	62.9	17.2		sw.			2	2 ck	0	sw.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.67	753.6	30.00	762.0	61	16.1	90	s.	11	4.9		0	8 k		sw.	0.08	2.0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.16	766.1	30.20	767.1	67.0	19.4	59	sw.			2	5 cs	0	sw.		0	0	d. clouds	C. H. Rigby.
London, Ontario	29.18	741.2	30.07	763.8	60.2	15.7	92	sw.			1		10 n			0	0	overcast	E. B. Reed.
Montreal, Quebec*	29.82	757.4	30.02	762.5	63	17.2	90	s.	11	4.9			10 s			0.08	2.0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.74	755.4	29.97	761.2	64.6	18.1	91	s.			2		10 s			0.05	1.3	raining	A. McGill, M. A.
Parry Sound, Ontario*	29.32	744.7	30.01	762.2	49	9.4	100	sw.	10	4.5			10 n		sw.	0.04	1.0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.27	743.4	29.98	761.5	63.7	17.6	73	sw.			1	5 k	0			0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.40	746.7	30.08	764.0	61	16.1	88	sw.	10	4.5			10 cs			0	0	cloudy	H Morgan.
Port Stanley, Ontario	29.44	747.8	30.07	763.8	57	13.9	96	sw.	3	1.3			10 n		W.	0.07	1.8	cloudy	M. Payne.
Quebec, Quebec*	29.75	755.6	30.09	764.3	63	17.2	90	calm	0	0			10 ks		sw.	0.02	0.5	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.45	748.0	29.99	761.7	62	16.7	90	W.	1	0.4			10 ks		sw.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.20	767.1	30.25	768.3	49	9.4	85	se.	5	2.2			10			0	0	foggy	
St. John, N. B	30.08	764.0	30.25	768.3	49.0	9.4	92	sw.	9	4.0			fg			0	0	foggy	G. Murdock, C. E.
Saint John's, N. F	29.98	761.5	30.23	767.8	53	11.7	73	sw.			2	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F			30.20	767.1	44.6	7.0		sw.			2					0	0		The Commandant.
Saugeen, Ontario*	29.31	744.5	30.03	762.7	49	9.4	93	sw.	6	2.7			10 ks			0.11	2.8	cloudy	
Stratford, Ontario	28.80	731.5	30.00	763.5	57.6	14.2	91	W.	1	0.4			10 s			0.350	8.9	d. clouds	C. J. Macgregor, M. A.
Sydney, C. B*	30.18	766.6	30.24	768.1	57	13.9	77	sw.	10	4.5		8 c	0	W.		0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.67	753.6	30.04	763.0	63	17.2	81	W.	13	5.8			10 ks		W.	0	0	cloudy	Magnetic Observatory.
Windsor, N. S	30.14	765.5	30.24	768.1	62.0	16.7	88	n.	6	2.7			10 ks			0	0	overcast	Prof. W. R. Butler, M.A.
Woodstock, Ontario	29.04	737.6	30.08	764.0	59.8	15.4	94	sw.	10	4.5			10 s			0.02	0.5	drizzling	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.24	768.1	30.31	769.9	51	10.6	100	s.	2	0.9			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.36	771.1	30.39	771.9	64.0	17.8	67	sw.	17.7	7.9		0	1 k			0.210	5.3	clear	John Duffie
Springbok Fontein	28.07	713.0			59	15.0	48	se.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Guelny.
Tchang-kia-tchouang	29.74	755.3	29.85	758.1	74.1	23.4	36	e.			0		2			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.83	757.7	29.85	758.3	67.5	19.7	80	sse.	6.7	3.0		0	0			0	0	clear	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.98	761.4	30.02	762.6	63.3	17.4	68	e.	9	4			1						Oversergent Fischer.
Fanoe	30.07	763.7	30.09	764.2	59.5	15.3	56	nw.			6		1						Overloerer Lauridsen.
Godthaab, Greenland	29.64	752.8	29.68	753.9	31.8	— 0.1	89	ssw.			4		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.61	752.1	29.66	753.3	37.0	2.8		nw.			2		5						
Stykkisholm, Iceland	29.97	761.2	30.01	762.3	50.0	10.0	78	s.			6		8						A. O. Thorlacius.
Thorshavn	30.22	767.5	30.24	768.1	50.0	10.0	80	w.	9	4			3						Overloerer Bergh.
Vestervig	29.98	761.6	30.08	763.9	54.0	12.2	75	nw.			4		1						Loerer Oesterhol.
EGYPTIAN.																			
Cairo	29.74	755.4			99.0	37.2	31	wnw.	4.5	2.0		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.33	745.0	29.97	761.1	65.1	18.4	94	wsw.			1		8		sw.	1.075	27.3	raining	M. Labroue, Director.
Alençon, Normal School	29.30	744.3	29.85	758.3	76.3	24.6	68	s.			3		5 s		n.	0	0	cloudy	M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.79	756.7	29.87	758.7	84.2	29	47	e.			2		2		se.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.32	744.8	29.85	758.2	77.5	25.3	46	se.			1	0	2 k		se.	0.031	0.8	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.61	752.2	29.86	758.5	78.6	25.9	47	e.			2		2		e.	0	0	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	28.97	735.9	29.87	758.6	78.8	26	51	ne.			1		0			0.071	1.8	clear	M. Gobin, Director.
Bordeaux, Observatory	29.51	749.5	29.76	755.9	73.6	23.1	62	se.			1		8		se.	0.732	18.6	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.28	743.7	29.80	756.9	79.0	26.1	45	ne.			2		k		ne.	0.004	0.1		M. Malet, Director.
Brest, Naval Observatory	29.63	752.7	29.88	758.9	67.6	19.8	87	calm			0		9			0.701	17.8	stormy	M. de Kermarée, Dir.
Caen, Normal School	29.72	754.8	29.79	756.6	74.8	23.8	69	nnw.			1		2		nnw.	0.217	5.5	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.52	749.9	29.83	757.6	80.6	27.0	49	sse.			2		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.38	746.3	29.87	758.7	81.0	27.2	41	s.			1		2			0.08	2.	¼ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.49	723.7	29.76	756.0	83.3	28.5	42	ese.			1	c	2 k			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.08	738.5	29.91	759.7	82.2	27.9	41	e.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.06	738.2	29.88	759.0	74.7	23.7	50	e.			1	ck		e.	e.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.43	696.7	29.85	758.3	76.1	24.5	50	calm			0		1		s.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.78	730.9	29.85	758.1	77.5	25.3	54	se.			4		3		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.10	739.0	29.84	757.8	79.5	26.4	45	e.			1	2 ck	0	sw.		0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.27	718.0	29.88	758.9	76.6	24.8	62	nw.			1		n		sw.	1.34	34.		M. Delorme, Dir.
Lamballe, Normal School	29.74	755.3	30.00	762.1	68.0	20	81	ne.					k		ne.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.16	740.7	29.72	754.8	64.4	18.0	80	e.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.74	755.3	29.84	757.9	70.9	21.6	77	s.			2		10		se.	0.906	23.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.83	732.3	29.82	757.5	79.9	26.6	35	sse.			2	2 c	0			0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.53	750.0	29.82	757.5	76.5	24.7	70	se.			1		5		se.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.63	752.5	29.89	759.1	79.7	26.5	63	ese.			1		7		ese.	0	0		M. Stephan, Director.
Montlouis	24.73	628.1	29.57	751.1	60.8	16.0	50	e.	9.4	4.2			6	e.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.76	755.8	29.88	758.9	73.0	22.8	81	ssw.			3		1		ssw.	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.11	739.5	29.86	758.5	77.0	25.0	61	nnw.			1	ck	0			0	0		M. Hasse, Director.
Nantes, Observatory	29.67	753.6	29.83	757.7	81.7	27.6	46	ssw.			0–1	ck	8 k; kn		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.76	756.0	29.87	758.8	70.9	21.6	61	ne.	11.2	5.0			8		se.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.16	537.5			40.5	4.7		w.			2		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.84	732.4	29.85	758.1	78.8	26	47	s.			1	0	2 s		s.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.12	638.0			59.2	15.1	66	se.			3		2			0	0	¼ covered	M. Alluard.
Rochefort, Naval Obs'y	29.74	755.5	29.78	756.3	77.7	25.4	65	calm			0		8		se.	1.42	36.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.56	750.9	29.77	756.1	74.8	23.8	74	se.			1		2		se.	0.504	12.8	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.73	704.3	29.78	756.3	76.1	24.5		e.			3	1 ck	0	nw.		0	0	clear	M. Seger, Director.
Rouen, Normal School	29.82	757.4	29.87	758.6	82.8	28.2	43	ese.			1		0			0	0	clear	M. Mouillot, Dir.
Saint Maur, Observatory	29.69	754.2	29.85	758.3	82.0	27.8	41	se.			1		0			0	0		M. Renou, Director.
Toulouse, Observatory	29.10	739.0	29.82	757.3	79.3	26.3	46	sse.			6		0			0.024	0.6	clear	M. Baillaud, Director.
Tours	29.63	752.7	29.81	757.2	78.8	26.0	53	ene.			1		2	ssw.	s.	0.004	0.1	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.37	746.0	29.86	758.5	80.6	27.0	37	se.			3					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.63	752.5	29.76	756.3	66.7	19.3	94	w.	4.0	1.8			10 k		ese.	0.059	1.5	light rain	M. Cartier, Director.
GERMAN.																			
Ansbach	28.55	725.1	29.91	759.7	81.5	27.5	34	e.			2		1	e.		c	0		Prof. Jnedt.
Bamberg	29.13	740.0	29.98	761.4	79.5	26.4	33	se.			5	0	2 k		n.	0	0		Prof. Dr. Hoh.
Berlin	29.87	758.6	30.00	762.1	81.7	27.6	25	n.			1		0			0	0		Dr. Sensch.
Breslau	29.52	749.7	30.05	763.2	75.7	24.3	27	ne.			2		1			0	0		Royal University Obs'y
Carlsruhe	29.45	748.1	29.89	759.2	80.6	27.0	46	e.			4		1	se.		0	0		Albert Senz.
Cassel	29.25	743.0	29.97	761.1	82.8	28.2	29	n.			1		2	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.89	759.3	83.8	28.8	29	ese.			2		2			0	0		Physical Society.
Friedrichshafen	28.55	725.2	29.91	759.7	71.8	22.1	84	sw.			2		5	sw.		0	0	hazy	Wilhelm, Chief Tel.
Hamburg	29.98	761.4	30.07	763.7	73.9	23.3	55	ne.			3		2			0	0		E. Preller.
Kiel	30.06	763.6	30.08	764.0	65.3	18.5	47	ne.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.59	751.5	29.98	761.6	81.9	27.7	29	ene.			3		3			0	0		H. Leppig, Asst.
Magdeburg	29.80	756.9	29.98	761.5	80.6	27.0	45	n.			1		0			0	0		Weather Observatory.
Memel	29.98	761.5	30.03	762.7	66.0	18.9	60	wsw.			3	0	3 k						Issermann.
Munich	28.16	715.2	30.02	762.5	76.5	24.7	49	ne.			2		3	se.		0	0		Central Station.
Neufahrwasser	30.00	762.1	30.02	762.5	66.6	19.2	58	ne.			2		1			0	0		A. Lothes.
Neustadt, Palatinate	29.39	746.6	29.92	759.9	81.0	27.2	40	e.			2		7	e.		0	0		Dicknether.
Stuttgart	28.97	735.8	29.81	757.1	80.6	27.0	42	s.			1		3	sw.		0	0		Prof. Dr. Schoder.
Wustrow	30.08	764.0	30.11	764.7	65.8	18.8	50	n.			1	0	3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.56	750.8	29.93	760.3	75.7	24.3		ne.			2.0		7 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.49	748.9	29.54	750.2	89.0	31.7	78	w.	34.0	15.2			3		w.	0	0	misty	
Deesa	29.04	737.7	29.49	749.0	104.6	40.3	23	w.	17.0	7.6			0			0	0	blue sky	
Bombay	29.62	752.5	29.66	753.4	86.7	30.4	74	wnw.	15.0	6.7			7	wsw.	wnw.	0.73	18.5	d. clouds	
Poona, Yarrowda	27.80	706.1	29.62	752.4	85.0	29.4	59	sw.	26.0	11.6			10			0.75	19.0	overcast	
Trichinopoly	29.48	748.8	29.76	755.8	92.6	33.7	50	wnw.	2.0	0.9			7	nne.	ne.	0.65	16.5	d. clouds	
Belgaum	27.19	690.5	29.74	755.3	70.9	21.6	76	w.	11.0	4.9			10		s.	0.02	0.5	d. clouds	
Lahore	28.69	728.6	29.39	746.5	101.2	38.4	28	e.	4.0	1.8			10			0	0	overcast	
Roorkee	28.59	726.1	29.45	748.0	94.8	34.9	37	e.	2.0	0.9			0			0.58	14.7		
Agra	28.89	733.9	29.42	747.4	106.1	41.2	18	se.	16.0	7.2			8		se.	0	0	d. clouds	
Nagpur	28.44	722.4	29.43	747.6	102.5	39.2	24	sw.	20.0	8.9			8		w.	0	0	d. clouds	
Jubbulpore	28.17	715.4	29.47	748.6	94.5	34.7	32	wnw.	4.0	1.8			8		n.	0.02	0.5	d. clouds	
Lucknow	29.11	739.3	29.47	748.4	100.4	38.0	36	ese.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.15	740.4	29.44	747.9	102.2	39.0	28	ene.	2.0	0.9			0			0	0	misty	
Patna	29.33	744.9	29.51	749.5	93.7	34.3	44	e.	8.9	4.0			5	e.	e.	0	0	d. clouds	
Hazaribagh	27.54	699.4	29.50	749.4	83.6	28.7	60	sse.	8.4	3.8			10			0.04	1.0	drizzling	
Cuttack	29.44	747.9	29.52	749.9	87.2	30.7	60	wnw.	3.0	1.3			6			0.32	8.0	d. clouds	
Calcutta, Alipore	29.51	749.4	29.53	750.0	87.0	30.6	67	se.	4.0	1.8			9		w.	0	0	d. clouds	
Dhubri	29.46	748.3	29.58	751.3	81.8	27.7	82	ene.	13.0	5.8			9	w.		0.89	22.6	d. clouds	
Chittagong	29.54	750.2	29.63	752.5	83.7	28.7	76	w.	3.3	1.5			9			0	0		
Sibsagar	29.29	743.8	29.62	752.3	81.6	27.6	85	calm	0	0			10	w.	w.	2.33	59.2	d. clouds	
Seypore	28.07	712.9	29.43	747.6	103.9	39.9	14	nnw.	9.5	4.2			2		n.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Zanzibar	29.98	761.5	30.00	762.1	84.4	29.1	59	ssw.	6.6	3.0			4			0	0	d. clouds	
Bellary	28.23	717.0			87.0	30.6	45	e.	10.0	7.2		4 ck	0			0	0	gloomy	
ITALIAN.																			
Udine	29.56	750.9	29.96	760.9	78.8	26.0	58	s.	2.5	1.1			8			1.496	38.0		Prof. Giovanni Clodig.
Milan	29.50	749.2	30.00	761.9	77.0	25.0	47	se.					3	se.		0.374	9.5		Prof. G.V.Schiapparelli.
Padua	29.85	758.2	29.96	760.9	80.8	27.1	37	ne.	1.8	0.8			8			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.11	739.5	29.99	761.8	70.2	21.2	61	nnw.	1.8	0.8			5	w.		0	0		Prof. F. F. Denza.
Genoa	29.79	756.6	29.98	761.4	74.5	23.6	62	sw.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.15	715.0	30.01	762.2	66.9	19.4	68	nw.			4		7			0	0		Prof. D. C. Bruno.
Pesaro	29.87	758.6	29.91	759.8	72.3	22.4	68	se.	7.4	3.3			10			0	0		Prof. Luigi Guidi.
Florence	29.69	754.1	29.94	760.4	81.9	27.7	51	w.			2		7			0	0		Prof. Costantino Pittei.
Leghorn	29.83	757.7	29.91	759.8	75.0	23.9	64	s.	1.3	0.6			3			0	0		Prof. P. Monte.
Rome	29.80	756.8	29.97	761.1	79.7	26.5	51	sw.	17.4	7.8			2	sw.		0	0		Prof. P. Tacchini.
Lecce	29.71	754.6	29.95	760.8	77.4	25.2	49	nne.	11.2	5.0			2			0	0		Prof. C. de Giorgi.
Cosenza	29.08	738.7	29.94	760.4	81.0	27.2	70	se.	2.5	1.1			7	s.		0	0		Prof. D. Conti.
Cagliari	29.69	754.1	29.87	758.8	73.8	23.2	64	se.			4		3	s.		0	0		Prof. A. Pacinotti.
Palermo	29.72	755.0	29.97	761.3	72.9	22.7	58	ne.	4.9	2.2			10			0	0		Prof. G. Caccatore.
Syracuse	29.89	759.3	29.94	760.4	78.0	25.9	62	s.	6.3	2.8			9	ssw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.47	748.5	29.98	761.4	77.9	25.5	65	nw.	0	0			3	sw.		0	0		Prof. F. Brioschi.
Stelvio	22.28	566.0			46.0	7.8	69	sw.			2		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.31	566.6			50.7	10.4	70	se.			2		10			0.220	5.6	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.94	760.4	29.97	761.3	52.2	11.2	92	calm			0	2 ck	0	sw.		0	0	clear	H. Hattori.
Awomori	29.95	760.7	29.99	761.7	52.0	11.1	86	sw.	10.3	4.6		0	1 s			0	0	clear	K. Ogawa.
Hamamatsu	29.89	759.2	29.92	759.9	64.0	18.1	86	calm			0		10 s			0	0	overcast	Y. Sekigawa.
Kanazawa	29.79	756.7	29.89	759.3	58.3	14.6	87	ene.	5.5	2.4		1	2			0	0	fair	S. Endo.
Kagoshima	29.86	758.5	29.88	758.8	67.9	19.9	78	nw.			2	0	1 s			0	0	clear	G. Miyanohaza.
Kioto	29.70	754.5	29.88	758.9	62.3	16.8	77	nne	1.7	0.7		0	9 s			0	0	cloudy	M. Tojima.
Kochi	29.87	758.6	29.89	759.1	68.9	20.5	89	se	3.9	1.7		0	7 s			0	0	cloudy	K Kusunose.
Miasaka	29.86	758.4	29.89	759.1	69.1	20.6	87	e			1	1 ck	9ks;s	sw.	sw.	0	0	cloudy	K. Masusaki.
Miyako	29.92	759.9	30.03	762.7	52.2	11.2	92	w.	0.4	0.2		10 c	0			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.67	753.6	29.87	758.7	63.1	17.3	81	nne.	0.9	0.4		0	0			0	0	clear	S. Takehayashi.
Niigata	29.89	759.2	29.93	760.2	62.0	16.7	63	ne.	4.8	2.1		0	1 ck		w.	0	0	clear	M. Morita.
Nobiru	29.99	761.9	30.01	762.3	57.2	14.0	83	e.	15.9	7.1			10 s			0	0	covered	H. Midzushina.
Numazu	29.88	758.9	29.91	759.7	63.1	17.3	87	ese.			2		10 ks			0	0	cloudy	R. Kaneda.
Osaka	29.85	758.1	29.86	758.5	65.1	18.4	81	ne.	0.9	0.4		0	3 s			0	0	clear	H. Omura.
Sakai	29.87	758.7	29.88	758.9	62.6	17.0	85	ne.			2	0	0			0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	29.87	758.6	29.94	760.5	64.0	17.8	83	ene.	4.4	2.0			10s;ks		ne.	0	0	cloudy	The Staff.
Wakayama	29.81	757.3	29.87	758.6	65.3	18.5	82	calm	0	0		0	6 s			0	0	fair	K. Sakai.
Shimonoseki	29.74	755.3	29.88	758.9	64.1	17.8	94	calm			0	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	77.0	25.0	78	nw.	4.5	2.0			8ks;ks		var.	0.36	9.1	fair	The Staff.
MEXICAN.																			
Guanajuato	23.66	601.0	29.88	759.0	61.3	16.3	75	e.	inap.	inap.		1 ck	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.96	761.0	59.0	15.0	83	wsw.	0.9	0.4		0	8 ck		w.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.63	752.0	29.89	759.1	74.0	23.3	86	e.	1.6	0.8		0	0			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					66	18.9	100	s.	8.8	3.9		0	0			0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.95	760.6	29.95	760.6	76.1	24.5		ne.			4					0	0		
Groningen	30.00	762.0	30.06	763.4	63.7	17.6		n.			4					0	0		
Helder	30.05	763.2	30.05	763.2	59.2	15.1		ne.			5					0	0		
Hellevoetsluis	29.97	761.3	29.97	761.3	73.9	23.3	58	ne.			3					0	0		
Utrecht	29.94	760.4	29.98	761.6	77.2	25.1	57	nne.			3		2			0	0	lightly cld'y	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.7			81.7	27.6	74	ene.	0	0			2			0	0		Lt. J. J. Roptman, R .N
NORWEGIAN.																			
Bergen	30.11	764.8	30.17	766.4	51.1	10.6	49	nnw.	13	6			3			0	0		
Brono	29.97	761.2	30.01	762.2	47.5	8.6	68	sw.			6		8			0.165	4.2		
Christiania	29.81	757.1	29.95	760.7	69.3	20.7	29	ssw.	13	5			3			0	0		
Gjesvær	29.88	758.9	29.90	759.5	64.8	18.2		ssw.			4		8						
Lodingen	29.92	759.9	29.97	761.1	43.7	6.5	83	sw.			5		10			0.189	4.8	rain & fog	
PORTUGUESE.																			
Angra, Azores	29.93	760.3	30.09	764.3	64.2	17.9	92	w.	8.7	3.9			2			0	0		Dr. J. A. Sampaio.
Campo Major	28.89	733.8	29.89	759.1	59.0	15.0	76	sw.	7.4	3.3			8			1.063	27.2		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.10	764.6	30.19	766.9	65.3	18.5	60	ese.	4.9	2.2			7			0.602	15.3		Capt. D. A. de Cunha.
Lisbon, Observatory	29.56	750.8	29.89	759.2	61.3	16.3	80	sw.	21.0	9.4			4			0.173	4.4		The Staff.
Ponta Delgada, Azores	30.08	763.9	30.15	765.7	64.8	18.2	80	wsw.	6.3	2.8			3			0	0		
Saint Paul de Loando	29.80	759.8	30.00	761.9	75.7	24.3	97	wnw.			1		10			0	0		
San Salvador	28.21	716.4	30.07	763.8	70.3	21.3	79	ssw.			2		10			0	0		
Serra da Estrella	25.09	637.3	29.91	759.7	36.9	2.7	100	w.	24.2	10.8			10			0.744	44.3	raining	
RUSSIAN.																			
Akmolinski	28.74	730.0	29.79	756.7	60.4	15.8	32	ene.	18	8		5 c	0			0	0		Major K. Lasarew.
Archangel	29.99	761.8	30.01	762.3	75.2	24.0	36	n.	4	2		2 cs	0			0	0		Capt. Sseltwerstow.
Ashurada	29.80	756.9	29.71	754.5	80.2	26.8	78	nnw.	11	5		0	1 k			0	0		
Astrakhan	29.90	759.4	29.82	757.3	73.4	23.0	60	calm	0	0			10 s;n			0.075	1.9		Capt. Wisganow.
Baku	29.93	760.2	29.88	759.0	76.8	24.9	73	ssw.	9	4		0	0			0	0		
Barnaul	29.39	746.5	29.88	759.0	56.1	13.4	40	calm	0	0			2			0.035	0.9		Meteorological Obs'y
Bielosersk	29.54	750.3	29.99	761.8	69.1	20.6	45	nnw.	4	2		0	3 k			0	0		
Dorpat	29.73	755.2	29.97	761.1	74.5	23.6	35	ssw.	4	2		0	2 k			0	0		Observatory.
Ekaterinburg	29.04	737.6	29.96	761.0	67.1	19.5	32	w.	7	3		0	0			0	0		Meteorological Obs'y
Elissawetgrad	29.53	750.1	29.97	761.2	67.6	19.8	51	ese.	7	3		cs	7 kn			0.287	7.3		
Irkutsk	28.20	716.3	29.80	757.0	57.4	14.1	71	n.			3		6			0.059	1.5		
Kasalinsk	29.24	742.8	29.42	747.3	74.1	23.4	56	nw.	9	4		0	4k						
Kasan	29.72	754.9	29.98	761.6	63.0	17.2	41	ene.	11	5		0	7 k			0	0		Observatory.
Kem	29.92	759.9	29.97	761.2	72.9	22.7	45	e.	13	6		0	6 k			0	0		
Kertch	29.85	758.1	29.87	758.7	69.4	20.8	56	calm	0	0		5 c	0			0	0		Lagorio & Sastyrea.
Kieff	29.29	744.6	29.91	759.6	67.3	19.6	55	ssw.	7	3		ck	8 ks;n			0.016	0.4		Observatory.
Koslov	29.37	746.0	29.90	759.4	56.5	13.6	93	nne.	9	4			10 ks			0.201	5.1		
Libau	29.95	760.6	29.97	761.2	60.1	15.6	70	ssw.	9	4			5			0	0		E. Quaas.
Lugan	29.68	753.8	29.86	758.4	58.1	14.5	59	nnw.	9	4			10			0	0		Meteorological Obs'y.
Moscow	29.52	749.7	29.99	761.7	55.2	12.9	73	se.	3.4	1.5			10 n			0.012	0.3		Meteorological Obs'y
Nikolaiev	29.89	759.1	29.90	761.0	73.8	23.2	50	calm	0	0		0	4 kn			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.77	756.1	29.85	758.3	46.6	8.1	75	e.	4	2			0			0	0		Iwanow.
Pekin, China	29.03	752.5	29.77	756.1	75.9	24.4	42	sw.	3.4	1.5		0	1 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.48	748.8	29.81	757.1	90.0	32.2	23	nw.	1.1	0.5		8 cs	0			0	0		
Petrozavodsk	29.77	756.1	29.96	760.9	70	21.1	38	se.	22	10		3 ck	0			0	0		Dr. Bergmann.
Pinsk	29.47	748.5	29.95	760.8	68.2	20.1	50	nw.	4	2			9 s			0	0		
Poti	29.76	756.0	29.80	756.8	72.9	22.7	83	s.	9	4			10 n			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
St. Petersburg	29.96	760.9	29.98	761.5	71.1	21.7	29	nnw.	4	2		0	4 k			0	0		Central Physical Obs'y.
Samarkand	27 47	697.6	29.78	756.4	84.0	28.9	33	ne.	7.8	3.5		0	0			0	0		
Semipalatinsk	29.24	742.8	29.90	759.4	55.2	12.9	52	nne.	13	6			9			inap.	inap.		Major Lasarew
Sevastopol	29.69	754.2	29.91	759.7	73.2	22.9	56	nnw.	16	7		0	7 n			0	0		
Staroi Bykhov	29.53	750.1	29.98	761 4	66.7	19.3	39	ne.	7	3			10 k			0	0		
Tashkend	28 21	716.5	29.77	756.2	83.5	28.6	28	nw.	9	4		0	2 ks			0	0		Terch, A. M.
Tiflis	28.29	718.5	29.61	752.1	83.5	28.6	40	se.	11	5		0	5 k			0.051	1.3		Physical Observatory.
Vernoe	27.28	693.0	29.69	754.1	68.4	20.2	43	sw.	9	4			10 n			0.197	5.0		
Viatka	29.39	746.4	30.00	761 9	68.0	20.0	43	calm	0	0			0			0	0		
Warsaw	29.55	750.5	29.95	760.7	74.8	23.8	36	n.	4	2		0	3 k			0	0		Astronomical Obs'y.
Yeniseisk	29.60	751.9	29.89	759.1	50.9	10.5	47	nw.	2	1			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.20	767 1	62	16.7	94	se.			2	0	0			0	0	clear	J. Youngclause
North Unst			30.23	767.8				w.			3	2	4	sw.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.79	756.6	29.89	759.2	72.0	22.2	68	e.	0.9	0.4		0	3			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.70	754 3	29.76	755.8	71.6	22.0	61	se.	3.1	1.4		3	6	s.		0.524	13.3	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26 83	681.5	29.78	756.3	54.1	12.3	94	s.	4.9	2.2			10			0.295	7.5	covered	Domingo Martin.
Madrid, Royal Obs'y	27 64	702.0	29.86	758.4	54.9	12.7	80	sw.	20.1	9.0			10			0.181	4.6	covered	The Staff.
Murcia, Met. Obs'y	29.73	755.1	29.88	759.0	69.1	20.6	75	e.	3.8	1.7		3	6	w.		0.323	8.2	almost cov'd	Olayo Diaz, Director.
Oviedo	28.97	735.8	29.73	755.1	61.7	16.5	81	n.	8.9	4.0		6 n	4 n	n.	s.	0.862	21.9	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.86	733.1	29.75	755.7	57.9	14.4	87	sw.	3.8	1.7			10			0.051	1.3	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.97	761.3	30.04	763.0	76.4	24.7	81	e	4.5	2 0		9 cs	k	sw.		0.05	1.3	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.7	20.85	758.1	79.2	26.2	90	ssw.	11.0	4.9			9 ks			2.390	60.7	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.3	30.03	762.8	66.2	19.0	72	sw.	11.7	5.3		0	8		w.	0.976	24.8		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	30.01	762 2	30.10	764.5	79.2	26.2	92	calm	0	0		2 cs	1 k	se.	se.	0.087	2.2	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.95	760.6	29.98	761.6	55.4	13.0	66	sw.			4		0			0	0		
Umea	29.94	760.4	29.99	761 7	60.4	15.8	52	n.			4		5			0	0		
Hernosand	29.98	761 4	30.03	762.7	55.8	13.2	57	n.			2		10			0.012	0.3		
Stockholm	29.82	757.4	30.00	761.9	62.6	17.0	55	nne.			4		0			0	0		
Wisby	29.91	759.6	29.97	761.1	59.4	15.2	76	n.			2		0			0.177	4.5		
Sub-series.																			
Upsala	29.90	759.4	29.98	761.6	62.2	16.8	50	ne.	10.7	4.8			1		w.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.53	724.6	29.91	759.8	68.4	20.4	63	nne.			2		1			0.138	3.5	clear	The Observatory.
TURKISH.																			
Constantinople			29.93	760.2	70.2	21.2	57	n.	14	6.5			2		ne.	0	0		The Observatory.
Valona			30.09	764.3	74.3	23.5		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.6	82.2	27.9	59	sw.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.81	681.0			65	18.3	73						10 n		e.	0.5	13.	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.04	763.0	30.12	765 0	68.5	20.3	84	s.	8	3.6			10 n		s	0.01	0.3	light rain	J. O. Barnes.
Alpena, Michigan	29.39	746.5	30.04	763.0	50	10.0	77	w.	13	5.8			10 s		w.	inap.	inap.	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.03	635.8	29.78	756.4	43	6.1	63	e.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.04	686 8	29.83	757.7	57	13.9	49	sw.	12	5.4			10 s		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.08	738 6	30.23	767.8	69.0	20.6	90	se.	6	2.7		4 k	0			0.28	7.1	fair	Edward A. Beals.
Atlantic City, New Jersey	30.23	767.8	30.24	768.1	63	17.2	100	s.	4	1.8			fg.			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	30.11	764.8	30 30	769.6	72.5	22.5	82	s.	1	0.4		9 k	0	s.		0	0	cloudy	John Healy.
Baltimore, Maryland	30.19	766 8	30.24	768.1	67	19.4	90	s.	3	1.3			10 s		sw.	1.45	36.8	cloudy	Geo. W Felger.
Barnegat City, New Jersey	30.21	767 3	30.23	767.8	65.0	18.3	100	w.	16	7.2			fg			0.16	4.1	dense fog	G. A. Hill.
Behring Id., Behring Sea	30.00	762.0	30.02	762.5	40.2	4.6	99	s.	2	0.9			10 n			0	0	threatening	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28 44	722.4	29.98	761.5	54.0	12.2	80	se.	3	1.3			10 s		se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.14	689.3	29.92	760.0	48	8.9	58	w.	8	3.0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.71	678.4	29.85	758.2	45	7.2	63	sw.	2	0.9		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.18	715.8	29.94	760.5	54	12.2	74	s.	2	0.9		5 c	0	sw.		0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.22	767 6	30.25	768 3	59	15.0	100	s.	20	8.9		0	10s; fg			inap.	inap.	cloudy	J. T. Elker.
Boise City, Idaho	27 35	694.7	30.13	765.3	54	12.2	80	w.	4	1.8		0	10 s			0	0	cloudy	J. Kenealy.
Boston, Massachusetts	30.06	763.5	30.21	767 3	65.0	18.3	100	s.	12	5.4		0	10 n			0.03	0.8	light rain	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.93	760.2	79.0	26.1	82	s.	5	2.2		3 c	3 ks	e.	s.	0	0	fair	E. O. Imlay.
Buffalo, New York	29.36	745.7	30.10	764.5	52.2	11.2	97	sw.	16	7.2			fg.			0	0	dense fog	W. Finn.
Buford, Fort, Dakota																			A. Schneider.
Burlington, Vermont	29.79	756.7	30.08	764.0	65.0	18.3	100	s.	7	3.1			10 n		w.	0.08	2.0	light rain	D. N. Farnell.
Cairo, Illinois	29.76	755.9	30.15	765.8	69.7	20.9	80	e.	2	0.9		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.28	769.1	30.30	769.6	69.0	20.6	93	s.	4	1.8			10 ks		s.	0.19	4.8	cloudy	A. K. Alderson.
Cape May, New Jersey	30.21	767.3	30.24	768.1	64.0	17.8	90	s.	14	6.3			10 s		s.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.60	751.8	30.28	769.1	50	10.0	77	nw.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.15	765 8	30.17	766.3	76	24.4	85	ne.	8	3.6		3 c	0	w.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.20	767.1	30.25	768.3	78.0	25.6	88	e.	4	1.8		3 c	hz.			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.43	747.5	30.26	768.6	72.0	22.2	79	s.	3	1.3		3 k	0	sw.		0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.24	768.1	66.0	18.9	90	ne	2	0.9		9 ck	0	w.		0.02	0.5	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	29.87	758.7	42.2	5.7	76	n.	4	1.8		0	0			0.30	7.6	clear	E. McGovern.
Chicago, Illinois	29.44	747 8	30.13	765.3	58.9	14.9	84	sw.	3	1.3			10 s		sw.	0	0	cloudy	John Laurens.
Chincoteague, Virginia	30.26	768.6	30.28	769.1	63	17.2	100	s.	9	4.0			fg.			0.06	1.5	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.54	750 3	30.19	766.8	70.0	21.1	76	se.	4	1.8			10 k		sw.	0.02	0.5	cloudy	L. Dunne.
Cleveland, Ohio	29.41	747.0	30.14	765.5	64	17.8	75	w.	8	3.6		2 k	0	w.		0	0	clear	J. B. Newlin.
Coleman City, Texas	28.18	715 8	29.93	760.2	69	20.6	90	se.	9	4.0		0	9 ks		se.	0	0	cloudy	T. J. Kenan.
Columbus, Ohio	29.32	744.7	30.16	766.1	65	18.3	84	w.	2	0.9			10 c s		w.	0.01	c.3	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.04	712.2	29.91	759.7	69.0	20.6	84	s.	12	5.4			10 s		s.	0	0	cloudy	J. McGlone.
Davenport, Iowa	29.49	749.0	30.13	765.3	55	12.8	93	nw.	2	0.9			fg			0.01	0.3	dense fog	R. R. Martin.
Davis, Fort, Texas	25.15	638.8	29.76	755.9	61	16.1	78	se.	2	0.9		0	0			0.26	6.6	clear	J. Williams.
Dayton, Washington Ty	28.45	722.6	30.19	766.8	49	9.4	80	s.	15	6.7		6 k	0	sw.		0.05	1.3	fair	D. Moore.
Deadwood, Dakota	25 39	644.9	29.83	757.7	48	8.9	61	se.	4	1.8		0	0			0.04	1.0	clear	F. Willson.
Delaware Breakwater, Del	30.22	767.6	30.24	768.1	67	19.4	93	s	16	7.2		8 cs	0			0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.84	630.9	29.88	758.9	48.0	8.9	80	calm	0	0		0	0			0.03	0.8	clear	F. M. Neal.
Des Moines, Iowa	29.24	742.7	30.12	765.0	55	12.8	86	nw.	2	0.9		10 cs	0	w.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.41	747.0	30.10	764.5	64.0	17.8	90	sw.	3	1.3			10 s			0.32	8.1	cloudy	E. R. Brace.
Dodge City, Kansas	27.44	697.0	29.94	760 5	57	13.9	93	w.	16	7.2			8 ks		n.	1.15	29.2	cloudy	D. J. Carr.
Dubuque, Iowa	29.43	747.5	30.12	765.0	55	12.8	73	nw.	1	0.4		0	fg.			inap.	inap.	clear	J. Harvey Smith.
Duluth, Minnesota	29.36	745.7	30.09	764 3	54	12.2	55	calm	0	0		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.20	741.7	29.99	761.7	73.4	23.0	74	se.	6	2.7			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.34	643 6	29.93	760.2	45	7.2	80	s.	4	1.8			10 s		sw.	0.09	2.3	cloudy	H. R. Boynton.
Eastport, Maine	30.19	766.8	30.26	768.6	49.0	9.4	86	s.	3	1.3			fg.		s.	0	0	light fog	D. C. Murphy.
Elliott, Fort, Texas	27.25	692 1	29.92	760.0	50	10.0	74	se.	12	5.4			10 s		se.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.19	665.2	29.78	756.4	60.0	15.6	41	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.40	746.7	30.12	765.0	64	17.8	73	w.	9	4.0		3 cs	6 s	w.	w.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.44	747.8	30.09	764.3	51.0	10.6	86	w.	3	1 3			10 s		nw.	0.81	20.6	cloudy	George Heathcote.
Galveston, Texas	30.00	762.0	30.04	763.0	78	25.6	82	s.	8	3.6		3 cs	5 k		s.	0.27	6.9	cloudy	E. O'C. Machnerney.
Grand Haven, Michigan	29.46	748.3	30.10	764.5	55.0	12.8	90	w.	5	2.2			10s; fg			0.10	2.5	cloudy	E. J. Mueller.
Grant, Fort, Arizona	25.20	640.1	29.74	755.4	60.9	16.1	31	n.	3	1.3		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.28	769.1	30.30	769.0	72	22.2	90	se.	15	6.7		0	7 ks		se.	1.20	30.5	fair	R. M. Crawford.
Helena, Montana	25.74	653 8	29.80	758.4	54	12.2	64	sw.	8	3.6		0	0			0	0	clear	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.69	728.7	30.03	762.7	50.2	10.1	76	se.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.36	745.7	30.14	765.5	61.8	16.6	78	calm	0	0	.....	0	fg.	.....	.....	inap.	inap.	clear	C. F. R. Wappenhans.
Indianola, Texas	29.96	761.0	29.99	761.7	76.6	24.8	92	se.	8	3.6	.....	4 cs	3 ks	nw.	s.	0.01	0.3	fair	I. A. Reed.
Jacksonville, Florida	30.17	766.3	30.21	767.3	78.5	25.8	79	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.42	696.5	29.85	758.2	50	10.0	66	w.	4	1.8	.....	8 k	0	.....	.....	0.08	2.0	cloudy	W. B. Lamar.
Keokuk, Iowa	29.48	748.8	30.12	765.0	62.0	16.7	73	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	78.0	25.6	82	e.	11	4.9	.....	.....	10 s	.....	e.	0.02	0.5	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.27	768.8	30.29	769.4	73	22.8	94	sw.	5	2.2	.....	2 c	1s;hz	w.	.....	0.03	0.8	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.22	742.2	30.23	767.8	67	19.4	84	calm	0	0	.....	2 ck	3 s	sw.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.34	745.2	30.10	764.5	55	12.8	80	s.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.21	741.9	30.08	764.0	57	13.9	74	n	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy	A. W. Brown.
Lewiston, Idaho	29.31	744.5	30.13	765.3	58.0	14.4	48	w	10	4.5	.....	8 k	2 s	w.	w.	0.01	0.3	cloudy	H. S. Blandford.
Little Rock, Arkansas	29.78	756.4	30.09	764.3	69	20.6	93	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.57	751.1	29.96	761.0	57	13.9	86	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.58	751.3	30.13	765.3	69	20.6	84	e.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.56	750.8	30.23	767.8	70	21.1	78	calm	0	0	.....	4 cs	2 s	sw.	.....	0.12	3.0	fair	Louis Duane.
Mackinaw City, Michigan	29.41	747.0	30.05	763.3	46.0	7.8	91	w.	15	6.7	.....	.....	10 n	.....	w.	0.37	9.4	light rain	D. B. Notson.
Macon, Fort, North Carolina	30.27	768.8	30.28	769.1	72.5	22.5	98	e.	2	0.9	.....	0	2 ks	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.48	647.2	29.81	757.2	43	6.1	47	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	F. Burke.
Marquette, Michigan	29.36	745.7	30.08	764.0	52	11.1	80	nw.	10	4.5	.....	10 k	0	nw.	.....	0.37	9.4	cloudy	J. Gilligan.
Memphis, Tennessee	29.77	756.1	30.10	764.5	73	22.8	84	se.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.38	746.2	30.12	765.0	56	13.3	74	n.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear	W. Line.
Missoula, Fort, Montana	26.80	680.7	30.05	763.5	50	10.0	66	sw.	5	2.2	.....	.....	10 s	.....	.....	0	0	threatening	J. H. Young.
Mobile, Alabama	30.11	764.8	30.15	765.8	74.8	23.8	89	e.	4	1.8	.....	1 cs	7 ks	.....	e.	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.91	759.7	30.14	765.5	73.5	23.1	82	e.	1	0.4	.....	7 ck	0	e.	.....	0.25	6.3	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.06	738.1	30.03	762.7	50	10.0	71	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. White.
Mt. Washington, N. H.	24.06	611.1	30.18	766.6	48.0	8.9	94	sw.	40	17.9	.....	.....	fg.	.....	sw.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.59	751.6	30.15	765.8	71.0	21.7	94	se.	4	1.8	.....	2 cs	0	sw.	.....	0.01	0.3	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.07	763.8	30.18	766.6	62.5	16.9	100	sw.	10	4.5	.....	.....	10s;fg	.....	sw.	0.13	3.3	cloudy	J. H. Sherman.
New London, Connecticut	30.19	766.8	30.24	768.1	61	16.1	100	s.	14	6.3	.....	.....	10s:fg	.....	.....	0.01	0.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	75.0	23.9	85	se.	2	0.9	.....	0	0	.....	.....	0.06	1.5	clear	M. Herman.
New York, New York	30.05	763.3	30.22	767.6	67	19.4	90	sw.	7	3.1	.....	3 cs	5 s	sw.	.....	0.07	1.8	cloudy	G. E. Franklin.
Norfolk, Virginia	30.25	768.3	30.28	769.1	73	22.8	82	sw.	3	1.3	.....	0	8 ks	.....	sw.	inap.	inap.	cloudy	Wm. Davis.
North Platte, Nebraska	27.08	687.8	29.88	758.9	55.6	13.1	98	se.	10	4.5	.....	.....	10 n	.....	.....	2.66	67.6	light rain	E. F. Brady.
Olympia, Washington T'y	30.25	768.3	30.29	769.4	52.0	11.1	80	sw.	6	2.7	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	J. Dascomb.
Omaha, Nebraska	28.94	735.1	30.08	764.0	59.0	15.0	79	calm	0	0	.....	10 ck	0	s.	.....	0	0	cloudy	A. Pollak.
Ooglaamie, Alaska	29.99	761.7	30.01	762.2	19.5	— 6.9	100	wnw.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.71	754.6	30.03	762.7	69.0	20.6	78	s.	8	3.6	.....	3 cs	0	sw.	.....	0.03	0.8	clear	J. G. Linsley.
Palestine, Texas	29.51	749.5	30.05	763.3	71.0	21.7	86	se.	6	2.7	.....	3 c	0	.....	.....	0	0	clear	J. W. Byram.
Pensacola, Florida	30.12	765.0	30.15	765.8	76.3	24.6	82	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.13	765.3	30.23	767.8	68.5	20.3	93	s.	7	3.1	.....	.....	10s;fg	.....	s.	0.49	12.4	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.90	454.7	29.72	754.9	18	— 7.8	70	n.	24	10.7	.....	0	0	.....	.....	0.02	0.5	clear	H. Hall.
Pioche, Nevada	24.15	613.4	29.95	760.7	53.0	11.7	43	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.36	745.7	30.15	765.8	69.5	20.8	77	s.	9	4.0	.....	0	5 k	.....	w.	0.04	1.0	fair	W. A. Reid.
Poplar River, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. D. Maxwell.
Port Huron, Michigan	29.37	746.0	30.04	763.0	60.0	15.6	81	w.	7	3.1	.....	0	6 ks	.....	w.	0.24	6.1	fair	M. H. Perry
Portland, Maine	30.17	766.3	30.22	767.6	61	16.1	82	s.	6	2.7	.....	.....	10s;fg	.....	.....	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.18	766.6	30.25	768.3	53.2	11.8	74	sw.	11	4.9	.....	.....	10 s	.....	s.	0.05	1.3	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	73	22.8	84	sw.	6	2.7	.....	6 cs	hz.	.....	.....	0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.82	630.4	29.84	757.9	46.2	7.9	42	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass.	30.23	767.8	30.26	768.6	64	17.8	93	s.	12	5.4	.....	.....	fg.	.....	.....	0	0	dense fog	C. N. Kitchel.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	74.5	23.6	88	e.	8	3.6	.....	3 c	1 ks	.....	s.	1.86	41.2	fair	W. J. Evans.
Red Bluff, California	29.79	756.7	30.14	765.5	65	18.3	48	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.40	746.7	30.05	763.3	67	19.4	78	sw.	11	4.9	.....	0	7 k;hz	.....	w.	inap.	inap.	fair	E. W. McGann.
Roseburg, Oregon	29.80	756.9	30.35	770.9	54	12.2	73	ne.	1	0.4	.....	.....	10 k	.....	sw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	30.02	762.5	30.09	764.3	63.0	17.2	90	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.57	751.1	30.16	766.1	61.2	16.2	93	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.87	758.7	29.90	759.4	42	5.6	82	nw.	4	1.8	.....	0	5 s	.....	n.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.23	742.4	30.07	763.8	52.5	11.4	93	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.15	740.4	30.00	762.0	49	9.4	86	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.74	653.8	29.96	761.0	55.3	12.9	47	se.	3	1.3	.....	4 k	0	sw.	.....	inap.	inap.	fair	J. Craig.
San Antonio, Texas	29.31	744.5	29.99	761.7	75	23.9	78	se.	3	1.3	.....	0	3 s	.....	se.	0	0	clear	J. H. Davis.
San Diego, California	29.79	756.7	29.86	758.4	57.1	13.9	90	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. O. Dobbins.
Sandy Hook, New Jersey	30.18	766.6	30.22	767.6	68.0	20.0	90	sw.	12	5.4	.....	9 k	0	sw.	.....	0.22	5.6	cloudy	B. A. Blundon.
Sanford, Florida	30.11	764.8	.....	.....	78.5	25.8	77	ne.	6	2.7	.....	5 c	0	w.	.....	0.03	0.8	fair	J. B. Marbury.
San Francisco, California	30.07	763.8	30.14	765.5	55.5	13.1	90	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.28	591.3	29.79	756.7	47	8.3	42	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.16	766.1	30.25	768.3	79	26.1	82	e.	3	1.3	.....	3 c	2 k	.....	e.	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.25	666.7	29.82	757.4	55	12.8	57	sw.	14	6.3	.....	0 k	0	w.	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.81	757.2	30.04	763.0	71.5	21.9	86	se.	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.87	733.3	30.07	763.8	70.5	21.4	89	s.	13	5.8	.....	.....	10 s	.....	s.	0	0	cloudy	W. M. Mattingly.
Sitka, Alaska	29.77	756.1	29.83	757.7	49	9.4	77	sw	10	4.5	.....	.....	10 ks	.....	sw.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.58	751.3	30.04	763.0	69.5	20.8	90	e.	2	0.9	.....	1 c	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville North Carolina	30.24	768.1	30.28	769.1	75	23.9	85	se.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.07	713.0	30.11	764.8	49	9.4	86	sw.	10	4.5	.....	4 c	2 s	.....	.....	0	0	fair	John F. Hemenway.
Springfield, Illinois	29.48	748.8	30.15	765.8	59.1	15.1	86	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Starkville, Miss.	29.68	753.9	30.15	765.8	71	21.7	90	e.	6	2.7	.....	4 ck	2 s	sw.	.....	0.16	4.1	fair	C. Dill.
Stockton, Fort, Texas	26.92	683.8	29.84	757.9	66	18.9	78	s.	14	6.3	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.15	689.6	29.78	756.4	53	11.7	61	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.42	747.3	30.10	764.5	63	17.2	84	sw.	6	2.7	.....	.....	10 s	.....	sw.	0.05	1.3	cloudy	A. Buell.
Tucson, Arizona	27.46	697.5	29.76	755.9	60	15.6	41	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.99	761.7	30.01	762.2	40	4.4	82	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	60	15.6	35	n.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.86	758.4	30.11	764.8	72.0	22.2	84	se.	4	1.8	.....	3 ck	4 s	se.	se.	0	0	fair	James Kenealty.
Visalia, California	29.67	753.6	30.04	763.0	60.7	15.9	67	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.56	623.8	29.94	760.5	35.2	1.8	94	w.	1	0.4	.....	1 k	0	.....	.....	0.01	0.3	clear	T. M. Ambler.
Washington, D. C.	30.12	765.0	30.23	767.8	67.6	19.8	90	s.	6	2.7	.....	6 csjok	2 s	.....	s.	1.49	37.8	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.12	663.4	29.89	759.2	55.5	13.1	86	sw.	3	1.3	.....	0	9 s	.....	sw.	1.02	25.9	cloudy	F. H. Brandenburg.
Williamsport, Pa.	29.59	751.6	30.19	766.8	66	18.9	84	nw.	3	1.3	.....	.....	10 ks	.....	nw.	0.17	4.3	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.23	767.8	30.28	769.1	75	23.9	90	calm	0	0	.....	3 c;hz	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.74	653.8	30.00	762.0	47	8.3	52	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.81	731.8	30.09	764.3	56	13.3	93	se.	4	1.8	.....	.....	10 n	.....	.....	0.04	1.0	light rain	J. H. Atfield.
Yuma, Arizona	29.60	751.8	29.74	755.4	70.0	21.1	76	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.02	762.5	82	27.8	70	n.	1	0.4	.....	1 cs?	0	.....	.....	0	0	cloudy?	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.	.....	.....	3	4 c	5 k	e.	e.	0.360	9.1	fair	Dr. O. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.26	743.2	29.82	757.4	79	26.1	89	calm	.....	.....	0	.....	10 ks	.....	calm	0.02	0.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	78	25.6	90	ne.	.....	.....	1	cs	.....	se.	.....	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallon.
York Factory, B. A.	30.07	763.8	30.14	765.5	36.5	2.5	95	w.	10	4.5	.....	1 c	1 s	sw.	w.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 43° 22′, E. 15° 44′	30.00	762.0	75	23.9	77	se.			1		5	se.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.32	770.1	74	23.3	90	ene.			2		7	ene.						d. clouds.
H. M. S. Flamingo. N. 35° 12′, W. 64° 17′	30.41	772.4	75	23.9	86	ese.			1		0					1	ese.	blue sky.
H. M. S. Gannet, N. 14° 15′, W. 18° 55′	30.04	763.0	77	25.0	82	nnw.			4		4	ene.				2	n.ssw	d. clouds.
H. M. S. Himalaya, N. 36° 25′, E. 13° 51′	29.97	761.2	76	24.4	82	ese.			3		1					2	ene.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.92	760.0	77	25.0	91	nnw.			2–4		0							blue sky.
H. M. S. Minotaur, Vigo Bay, Spain	29.78	756.4	62	16.7	77	sw.			3		7	ssw.						d. clouds.
H. M. S. Opal, St. Vincent, Cape Verd Island	30.15	765.8	75	23.9	77	nne.			3		3	ene.						d. clouds.
H. M. S. Satellite, N. 45° 00′. W. 13° 40′	29.77	756.1	61	16.1	82	se.			2		6	ese.				4	wsw.	showery.
H. M. S. Superb, N. 43° 14′, E. 16° 13′*	29.97	761.2	71	21.7	85	calm			0		0							blue sky.
H. M. S. Tyne, N. 10° 20′, W. 50° 41′	30.05	763.3	81	27.2	85	e.			6		5	calm				5	e.	squally.
H. M. S. Thetis, N. 12° 46′, W. 22° 50′	30.12	765.0	75	23.9	90	n.			3		1	nne.				3	nne.	blue sky.
H. M. S. Tenedos, St. John's, N. F.	30.14	765.5	54	12.2	74	nw.			1		4	sw.						d clouds.
H. S. M. S. Eugenie, N. 52° 03′, E. 2° 24′	30.00	761.9	58.1	14.5	89	e.			5		1							misty.
U. S. Navy Yard, Portsmouth, N. H *	30.16	766.1	60	15.6	94	se.	7	3.1			10		sw.	0	0			foggy.
U. S. S. Lancaster, Kronstadt, Russia	30.07	763.8	75	23.9	56	ese.			1		2		calm			sm'h		fair.
U. S. S. Nipsic, New York, N.Y *	30.23	767.8	65	18.3	94	ssw.			2		8							cloudy.
U. S. S. Portsmouth, Newport, R.I.	30.28	769.1	62	16.7	94	s.			4		10		sw.					drizzling.
U. S. S. Powhatan, Port Royal, S. C.	30.22	767.6	78	25.6	91	ese.			1		2							clear.
U. S. S. Quinnebaug, N. 5° 35′ W. 10° 00′	30.06	763.5	80	26.7	87	sw.			3		8		sw.			sm'h	sw.	fair.
U. S. S. Saratoga, New York, N. Y	30.23	767.8	68	20.0	100	sw.			3		8		sw.	0	0	sm'h		cloudy.
U. S. S. Vandalia, New York, N.Y	30.22	767.6	66	18.9	68	wsw.			3		8		calm					fair.
Inchkeith, N. 37° 07′, W. 39° 17′	30.31	769 9	66.5	19.2	81	nnw.			4		6							d. clouds.
H.P.M.S. Rio Lima, Porto Praya, Cape Verde Islands			77.9	25.5	83	ne.			3		3					3	se.	d. clouds.
S.S. British Prince, N. 39° 26′ X 72° 50′			78	25.6		sse.			3					0	0	sli't	se.	foggy.
S. S. Illinois, Philadelphia, Pa.	30.24	768.1	70	21.1		wnw.			2		9		w.					cloudy.
S. S. Lord Clive, N. 43° 21′, W. 48° 29′						wsw.			4		0			0	0	sm'h		fine.
S. S. Lord Gough, N. 39° 14′, W. 67° 00′	30.28?	769.1?	71	21.7		ssw.			3		2		sw.	0	0	sm'h		clear.
S. S. Ohio, N. 40° 06′, W. 50° 03′ †	30.41	772.4	61	16.1		nw.			4		2		nne.	0	0	sm'h	n.	clear.
S. S. Pennsylvania, N. 45° 34′, W 35° 13′ †	30.08	764.0	60	15.6		n.			4		4		nnw.	4 h'r	4 h'r	mod.	nw.	fine.
S. S. Grecian, N. 52° 47′ W. 15° 17′	29.91	759.7	58	14.4	88	ene.			2		2		ese.	0	0	sm'h		hazy.
S. S. Polynesian, N. 55° 09′, W. 15° 49′	30.10	764.5	66	18.9		e.			4		0			0	0	sm'h	e.	clear.
S. S. Prussian, N. 54° 48′, W. 16° 24′	29.96	761.0	60	15.6		ene.			4		1		ene.	0	0	mod	e.	clear.
S. S. Manitoban, N. 54° 12′, W. 25° 50′	29.87	758.7	52	11.1	93	s.			4		10		s.	20 h'r	20 h'r	mod.	sse.	raining.
S. S. Sardinian, N. 53° 27′, W. 31° 02′	29.81	757.2	50	10.0		wsw.			8		9		wsw.	2 h'r	2 h'r	mod	wsw.	cloudy.
S. S Jason, N. 49° 53′ W. 8° 38′†	29.97	761.2	55.4	13.0		w.			2–5		8 n					2	ene.	raining.
S. S. Alvo, Gulf of Gonaives, Hayti, W.I*	29.98	761.5	79	26.1		sse.			3		2		calm	2 h'r	2 h'r			fine.
S. S. Andes, Jacmel, Hayti, W. I*†	30.00	762.0																
S. S. Anchoria, N. 54° 49′, W. 16° 43′†	30.10	764.5				ene.			4		3		ene.	0	0	sm'h		clear
S. S. Assyria, N. 45° 18′, W. 37° 52′	30.08	764.0	56	13.3		w.			4		9			0	0	sli't	nw.	cloudy
S. S. Dorian, Mouth of Avon river, Scotland	30.14	765.5	58	14.4														
S. S. Devonia, N. 41° 50′, W. 62° 16′ *†	30.47	773.9	51	10.6		ssw.			1		1		wnw.					clear.
S. S. Furnessia, N. 51° 25′, W. 9° 54′†	29.82	757.4	58	14.4	88	e.			4		2		e.	0	0	mod.	e.	clear.
S. S. Elysia, N. 42° 25′, W. 50° 00′	30.31	769.9	50.4	10.2		sw.			3		2			0	0	sli't	sw.	clear.
S. S. Carroll, Halifax, N. S *†	30.37	771.4	61	16.1	94	sw.			1		10		sw.	0	0			cloudy.
S. S. Jerome, N. 18° 17′, W. 58° 17′			79	26.1	100	e			5		7		ene.	0	0	mod.	ene.	cloudy.
S. S. Llandaff City, N 44° 06′, W. 43° 20′			64	17.8		wnw.			6		9		w.	0	0	mod.	w.	cloudy.
S. S. Marathon, Palermo, Sicily	30.00	762.0	74	23.3		ene.			2		2		ene.	0	0	sm'h	ene.	fine.
S. S. Scythia, N. 51° 19′ W. 15° 29′	29.87	758.7	63	17.2	94	e.			1		9		calm	0	0			overcast.
S. S. Rhiwindda, N. 51° 23′, W. 13° 42′ *†	29.70?	754.4?	55	12.8		s.			3		8		s.	0	0	sm'h		fine.
S. S. France, N. 42° 54′, W. 42° 06 †	30.19	766.7	57.2	14		wnw.			4		9		w.	0	0	sm'h	nw.	
S. S. Ville de Marseilles, N. 39° 53′, W. 24° 30′*	30.03	762.7	63	17.2		wsw.			5		6?		sw.	2 h'r	2 h'r	long	sw.	covered?
S. S. Arizona, N. 49° 34′, W. 27° 41′	29.88	758.9	50	10.0		nw.			5		10		nw.	0	0	mod.	nw.	overcast.
S. S. Wyoming, N. 41° 55′ W. 60° 07′	30.45	773.4	64	17.8		wsw.			2		0			0	0	sm'h		clear.
S. S. Bohemia, N. 40° 28′, W. 73° 51′						sw.			5		10		sw.	0	0	sm'h	sw.	foggy.
S. S. Gellert, N. 49° 48′, W. 22° 50′	29.94	760.5	56	13.3	87	nw.			1		0			0	0	sm'h	ne.	clear.
S. S. Rugia, Hamburg, Germany	30.02	762.5	87	30.6		n.			3		0			0	0			clear.
S. S. Silesia, N. 33° 08′, W. 47° 03′	30.40	772.1	71.0	21.7		ne.			4		5		ne.	0	0	2	ne.	fair.
S. S. Wieland, N. 41° 37′, W. 50° 39′	30.42	772.7				wnw.			3		2		nw.	0	0	sm'h	nw.	fine.
S. S. Mentmore, N. 43° 31′, W. 52° 10′ *†	30.36	771.1				w.			6		2		w.	0	0	mod.	nw.	clear.
S. S. Bulgarian, N. 51° 24′, W. 14° 09′*	29.94	760.5				e.			4		9			0	0			cloudy.
S. S. Archimedes, New York, N. Y	30.15	765.8				s.			4		10		w.	1 h'r	1 h'r	light	s.	foggy.
S. S. Ptolemy, N. 14° — W. 26° 30′	30.16	766.1	76.5	24.7	86	ene.			4		5 ks			0	0	3	ne.	squally.
S. S. Colorado, N. 33° 11′, W. 76° 45′†	30.28	769.1	74	23.3		se.			2		8		e.	0	0	mod.	e.	cloudy.
S. S. Rio Grande, N. 24° 22′, W. 82° 53′*†	30.05	763.3	82	27.8		ese.			2		10		ese.	5 h'r	5 h'r	short	e.	cloudy.
S. S. Chalmette, Algiers, La †	30.22	767.6	76	24.4		se.			3		3		se.	0	0			clear.
S. S. New York, N. 28° 10′ W. 88° 00′*†	30.04	763.0	79	26.1		ese.			4		4		se.			mod.	ese.	fair
S. S. Hermod, N. 8° 00′, W. 46° 50′†	30.00	762.0	82	27.8		e.			6		6		e.	0	0	r'gh	e.	fair.
S. S. Archimede, Marseilles, France †	29.96	761.0	76	24.4	73	se.			4		3		se.	0	0			clear.
S. S. City of Merida, N. 19° 19′, W. 95° 30′†.	30.06	763.5	79	26.1		n.			2		10		n.	1 h'r	1 h'r	mod.	n.	cloudy.
S. S. City of Washington, N. 21° 20′ W. 89° 38′			80	26.7		ese.			3		8		ese.	0	0	sm'h		cloudy.
S. S. Denmark, N. 48° 30′, W. 23° 30′†	29.89	759.2	59	15.0		sw.			2		2		sw.	0	0	sli't	w.	clear.
S. S. England, N. 46° 22′, W. 34° 17′	29.99	761.7	51	10.6		nw.			4		10		nw.	sq'lls	sq'lls	high	nw.	overcast.
S. S. Erin, N. 40° 32′, W. 65° 42′	30.48	774.2	62	16.7		se.			2		3		se.	0	0	mod.	se.	clear.
S. S. Helvetia, Liverpool, Eng	30.11	764.8	64	17.8	83	se.			4		0			0	0			clear.
S. S. The Queen, N. 40° 22′ W. 64° 02′	30.38	771.6	65	18.3	84	sse.			2		10		sse.	0	0	sm'h		overcast.
S. S. Braunschweig, N. 48° 21′, W. 25° 40′	29.84	757.9	60.0	15.6	76	sse.			4		10		sse.	7 h'r	7 h'r	mod.	sse.	rainy.
S. S. Elbe, N. 46° 14′, W. 35° 38′	30.09	764.3	57	13.9	81	w.			3		5		w.	0	0	long	wnw	fair.
S. S. Hohenzollern, N. 48° 02′, W. 15° 23′	29.83	757.7	60	15.6		ne.			1		10		e.	2¾ hr	2¾ hr	light	e.	overcast.
S. S. Ohio, N. 38° 26′, W. 56° 33′	30.51	774.9				calm			0		4			0	0	sm'h		fair.
S. S. Salier, N. 49° 03′ W. 42° 00′ *	29.82	757.4	47	8.3	92	w.			6		6		nww.	4 h'r	4 h'r	r'gh	nw.	rainy.
S. S. Strassburg, N. 40° 22′, W. 59° 37′	30.47	773.9	64.5	18.1	86	sw.			1		6		sw.	0	0		sw.	fair.
S. S. Werra, N. 46° 26′, W. 34° 00′	30.01	762.2	56	13.3		nne.			4–5		8		n.	2 h'r	2 h'r	mod.	nne.	cloudy.
S. S. Weser, N. 48° 56′, W. 15° 40′	29.83	757.7				ese.					8		ese.	0	0	sm'h	e.	hazy.
S. S. City of Augusta, N. 37° 40′, W. 74° 35′ †	30.23	767.8				nne.			4		8		nne.	0	0	r'gh	ese.	cloudy.
S. S. Colon, New York, N.Y †	30.17	766.3	68	20.0		sw.			3		10			0	0			overcast
S. S. Muriel, St. Kitts, W. I.	30.17	766.3	82	27.8		e.			4		10		e.	0	0	sm'h	e.	overcast.
S. S. Orinoco, Hamilton, Bermuda Island, Atlantic	30.42	772.7	80	26.7		e.			2		5		e.	0	0			fair.
S. S. Rhynland, N. 49° 28′, W. 17° 30′	29.84	757.9	55	12.8	87	e.			3		10			0	0			dense fog.
S. S. Pennland, N. 40° 24′ W. 64° 25′	30.49	774.4	62	16.7	94	e.			1		2		e.	0	0	sm'h	e.	clear.
S. S. Switzerland, N. 42° 13′, W. 45° 29 †	30.32	770.1				w.			3		8		w.	0	0	mod	w.	cloudy.
S. S. Waesland, N. 49° 41′, W. 10° 35′	30.03	762.7	60	15.6		sse.			2		9		s.	2 h'r	2 h'r	long	ene.	cloudy.
S. S. P. Caland, Jersey City, N. J	30.24	768.1	66.9	19.4	97	ssw.			2		8		ssw.					cloudy.
S. S. Leerdam, N. 49° 40′, W. 7° 05′	29.90	759.4	61.6	16.4	94	e.			6		10		se.	2 h'r	2 h'r	mod.	e.	cloudy.
S. S. Rotterdam, N. 41° 55′. W. 47° 32′	30.35	770.9	56	13.3	81	wnw.			4		4		w.	0	0	3	wnw.	fair.
S. S. W. A. Scholten, Rotterdam, Holland	29.96	761.0	71.8	22.1	76	e.			4		0			0	0			clear.
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	82	27.8	87	ne.			3		3		ene.	2 h'r	2 h'r	mod.	ne.	hazy.
S. S. Valencia, N. 37° 06′ W. 72° 45′			75	23.9	81	sse.			3		2		s.	0	0	mod.	se.	clear.
S. S State of Georgia, N. 41° 52′, W. 51° 55′†	30.46	773.7	58	14.4		w.			3		0			0	0	sm'h		clear.
S. S. State of Indiana, N. 54° 54′, W. 17° 15′ *†	30.00	762.0	55	12.8		e.			3		1		e.	0	0	sm'h		clear.
S. S. State of Nevada, N. 42° 03′ W. 52° 31′†	30.41	772.4	64	17.8		w.			4		1		sw.	0	0	sm'h		clear.
S. S. Thingvalla, N. 57° 39′, W. 14° 19′ †	30.22	767.6	59.0	15.0		ese.			3		2		ese.	0	0	sm'h	ese.	clear.
S. S. Romano, off North Foreland, Eng†	30.00	762.0	62	16.7		ne.			5		2		n.	0	0			hazy.
S. S. Oregon, N. 51° 33′, W. 14° 34′	29.87	758.7	54	12.2		e.			3		9		e.			light		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Olbers, N. 16° 57′, W. 25° 00′ †	30.18	766.6	78	25.6	91	ne.			5		5		ene.	0	0	sli't	nne.	fair.
S. S. Daniel Steinmann, Beachy Head, Eng †	29.92	760.0	72	22.2		ne.			3		0			0	0			clear.
S. S. Norman, N. 42° 25′, W. 70° 54′	30.24	768.1				sw.			5		0			0	0			clear.
S. S. Saxon, N. 28° 50′, W. 74° 35′ †	30.23	767.8				s.			6		fg.							dense fog.
S. S. Adriatic, N. 43° 15′, W. 46° 01′ *†	30.36	771.1	58	14.4		wnw.			4		5		wnw.	0	0	sli't	wnw.	fair.
S. S. Baltic, N. 48° 43′, W. 31° 49′ *	29.96	761.0	49	9.4	85	nw.			4		7		nw.	4 h'r	4 h'r	mod.	nw.	fair.
S. S. Britannic, N. 51° 06′, W. 19° 03′ †	29.96	761.0	55	12.8		nw.			2		10		w.	0	0	sm'h	n.	gloomy.
S. S. Iowa, N. 42° 59′ W. 47° 26′ †	30.28	769.1	53	11.7		w.			5		1		w.	3 h'r	3 h'r	mod.	w.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.01	762.2	66	18.9	74	w.			5		3			3 h'r	3 h'r			clear.
Schr. Abbie H. Gheen, Jacksonville, Fla †	30.32	770.1	78	25.6		e.			2									cloudy.
Bk. Aquidneck, N. 36° 56′, W. 75° 50′ *†	30.20	767.1				se.			2		fg.		se.	0	0	light	se.	foggy.
Bg. Alcira, N. 20° 12′, W. 73° 37′	30.13	765.3	83	28.3		ene.			6		6		ene.	0	0	mod.	ne.	fair.
Schr. Arthur Burton, St. Simon's Sound, Ga †	30.25	768.3				ene.			1		2		e.	0	0	sm'h	ese.	fine.
Bk. Aureola, N. 37° 15′, W. 50° 27′ †	30.45	773.4	71	21.7		nne.			1		8		calm	0	0	long	nw.	gloomy.
Bk. Arda, Wood Point, N. B †	30.20	767.1				ssw.			3		7		ssw.	0	0			fair.
Bk. Alba, N. 46° 10′, W. 48° 45′ *†	30.12	765.0	41.9	5.5		w.			4					0	0			
Bgt. Achsah, N. 38° 00′ W. 71° 47′ †	30.29	769.4	73	22.8		ssw.			2		0			0	0	long	ssw.	clear.
S. S. Burswell, N. 50° 25′, W. 2° 44′ *†	29.89	759.2	64	17.8		ene.			3		4		ene.	0	0	str'g	ene.	fine.
Bg. Belle of the Bay, Galveston, Texas †	30.03	762.7				ese.			4		5		ese.	¼ h'r	¼ h'r			fair.
Schr. C. R. Flint, N. 24° 06′, W. 81° 00′ †	30.11	764.8	79	26.1		e.			3		8		e.	12 h'r	12 h'r	short	se.	cloudy.
Bk. Childwall, N. 42° 34′, W. 26° 18′			62	16.7		var.			6		10		nnw.	6 h'r	6 h'r	sm'h		heavy rain.
Bk. Cato, Bodöe, Norway *†	29.99	761.7				w.			3									
S. Criterion, N. 50° 40′, W. 30° 30′ *†	29.90	759.4				wnw.			2		8		wnw.	sh'rs	sh'rs	long	w.	fine.
Schr. Clotilde, Tampico Bar, Mexico *†	29.92	760.0	83	28.3		sw.			1		5		se.	0	0	r'gh	se.	fair.
S. David Stewart, N. 18° 34′, W. 35° 08′ †	30.14	765.5				e.			4		3		ene.	2 h'r	2 h'r	mod.	ene.	
S. S. D. J. Foley, Port Antonio, Jamaica, W. I *†	30.00	762.0	81	27.2	87	se.			3		2		se.	0	0			fine.
Bkt. David A. Preston, Navassa, W. I						se.			6		5		se.	0	0	long	se.	
S. E. J. Spicer, N. 50° 38′, W. 16° 05′	29.87	758.7	60	15.6	94	ese.			3		7		ese.	0	0	mod.	ese.	foggy.
Bk. E. D. Bigelow, N. 50° 53′, W. 9° 25′ *†	29.85	758.2	64	17.8		e.			4		9		se.	0	0	con.	e.	hazy
U. S. Fish Com. S. S. Fish Hawk, Washington, D. C †	30.22	767.6	68	20.0	90	sw.			2		8		nw.	0.82	20.8			cloudy.
Sch. F. E. Waters, Chesapeake Bay *†	30.35	770.9				se.			2				se.	0	0			fair.
Bk. George Davis, N. 54° 27′, W. 9° 40′						ene.			5					0	0		ne.	hazy.
Bgt. George, N. 37° 00′, W. 72° 30′ *†	30.30	769.6	70	21.1		ssw.			2		2			0	0	mod.	sse.	fair.
Bk. Galeon, N. 21° 10′, W. 90° 20′ †	29.98	761.5	75	23.9		e.			2		5		se.	4 h'r	4 h'r	sm'h	ene.	drizzling.
Bk. Heinrich & Tonio, N. 48° 47′, W. 10° 33′ †	29.81	757.2	63.5	17.5		e.			1–2		10		e.	4 h'r	4 h'r	light	e.	cloudy.
S. Hedwig, N. 36° 28′, W. 1° 20′	29.99	761.7	69.4	20.8	83	wsw.			6		5		wsw.	1 h'r	1 h'r	3	w.	
Bk. Hattie G. McFarland, Port Royal, S. C †	30.22	767.6	76	24.4		calm			0		3		sw.	0	0			fair.
Schr. Isabel Alberto, New York N. Y †	30.22	767.6				sw.			2		10		sw.	sh'rs	sh'rs			foggy.
Bk. Johanne, N. 38° 35′, W. 10° 37′ *†	29.85	758.2	65	18.3		w.			3		5		w.	3 h'r	3 h'r	sm'h		fine.
Schr. John L. Thomas, N. 19° 10′, W. 77° 02′ *†	30.10	764.5				ene.			3		2		ese.	0	0	mod.	ese.	clear.
Bg. John Wesley, N. 34° 31′, W. 54° 56′ *†	30.40	772.1	74	23.3		ne.			4		1		ne.	1 h'r	1 h'r	cross	ne;s.	clear.
Schr. Jennie N. Huddell, N. 33° 35′, W. 77° 50′ †	30.26	768.6	80	26.7	91	ese.			1		2		se.	hv'y	hv'y	h'vy	se.	clear.
Bkt. Kryolith, Ivigtut, Greenland *†	29.80	756.9				n.			4		5		n.	0	0			fair.
Bg. L. & W. Armstrong, Sandy Hook, N. J *†	30.28	769.1				ssw.			3		10			0	0	sm'h		hazy.
Light-house Tender Laurel, Pensacola Bay, Fla †	30.12	765.0	77	25.0		e.			2		3		e.	0	0			clear.
Bg. Lillian, N. 26° 09′, W. 68° 46′ †	30.23	767.8	80	26.7		ese.			3		3		se.	1 h'r	1 h'r	mod	ese.	fair.
Bk. Louise Adelaide, Havana, Cuba, W. I †	30.06	763.5	80	26.7		se.			1		hz			1 h'r	1 h'r			cloudy.
Bk. Milo, N. 45° 51′, W. 27° 21′ †	29.85	758.2				n.			6–7				nnw.			high	nw.	squally.
S. S. Madrid, Point Porman, Spain †	29.91	759.7	70	21.1	85	ssw.			2		6		wsw.	0	0	mod.	sw.	fair.
Schr. Minnie A. Bonsall, Hoboken, N. J †	30.20	767.1	72	22.2		s.			2				se.	2 h'r	2 h'r			fair.
Bk. Matilda C. Smith, N. 45° 32′, W. 22° 20′ †	29.95	760.7				nnw.			1		4		nw.	0	0	sm'h	ene.	fine.
Bgt. Myrtle, Barbadoes, W. I *†	30.10	764.5				e.			6		5		e.					rainy.
Bk. Mathais, N. 48° 58′, W. 10° 31′			64	17.8		sse.			1		9		s.	0	0	cross	ese.	hazy.
Schr. Maggie Abbott, N. 29° 35′, W. 71° 26′ †	30.23	767.8				se.			5		4		sse.	sh'rs	sh'rs	mod	se.	clear.
Bk. National Eagle, N. 38° 04′, W. 48° 18′						nnw.			3		2		nnw.	0	0	sm'h		fair.
Bg. O. C. Clary, N. 37° 28′, W. 70° 44′ *†	30.30	769.6				s.			3		0					sm'h	s.	clear.
Bk. Ottawa, N. 48° 59′, W. 9° 32′	29.83	757.7	62	16.7		calm			0		9		ssw.	0	0	short	e.	cloudy.
S. Paramita, N. 5° 43′, W 32° 24′ †	29.97	761.3	82	27.8		ne.			3		1		ne.	0	0	long	n.	clear.
S. S. Raleigh, Baracao, Cuba, W. I †	30.10	764.5	79	26.1		calm			0		6		ne.	rain	rain			clearing.
Bg. Rising Sun, N. 22° 04′, W. 61° 35′ †	30.20	767.1	75	23.9		e.			6		9		e.	0	0	short	e.	cloudy.
Bk. Rosino, N. 39° 53′, W. 37° 20′			66	18.9		n.			4		10		nw.	0	0	h'vy	nw.	stormy.
Bk. Sunbeam, N. 39° 19′, W. 55° 49′ †	30.48	774.2	66	18.9	89	nw.			3		0			0	0	sm'h		clear.
Bk. Southern Belle, N. 27° 30′, W. 35° 30′ †	30.34	770.6	74	23.3		ene.			2		0			0	0	h'vy	ne.	clear.
Bk. Usko, N. 50° 06′, W. 1° 16′*	29.83	757.7	54	12.2	87	ne.			6		10			0	0	rg'h	e.	foggy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I *†	30.08	764.0	79	26.1		calm			0		6		ne.	6 h'r	6 h'r			fair.
Bgt. Sunlight, N. 37° 51′, W. 73° 05′						s.			4		4		sw.	0	0	mod.	s.	hazy.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay †	30.08	764.0	53	11.7	100	sw.			3		0					1	sw.	blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.20	768.6	62	16.7		ne.			1		0							
H. M. S. Sylvia, Buenos Ayres, La Plata	30.04	763.0	43.7	6.5	85	sw.			1		0							blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.96	761.0	53	11.7	80	sw.	16	7.2			2		calm	0.05	1.3	mod.	sw.	fair.
U. S. S Galena, Montevideo, Uruguay *	29.93	760.2	52	11.1	72	ssw.			5		2					r'gh	sw.	clear?
May Hulse, S. 22° 20′, W. 25° 37′	30.19	766.8	71	21.7	86	s.			1		10							drizzling.
Bk. Horace Scudder S. 6° 00′, W. 28° 36′ *†	30.11	764.8	82	27.8		se.			4		9		se.	0	0	light	se.	fine.
S. Wm. McGilvery, S. 18° 20′, W. 37° 28′ *†	30.15	765.8	79	26.1	70	nne.			4		9?		ssw.	0	0	sm'h		clear.
May Hulse, S. 22° 20′, W. 25° 37′	30.19	766.8	71	21.7	86	s.			1		10							drizzling.
S. S. Hevelius, S. 2° 30′, W. 31° 00′ †	30.20	767.1	80	26.7		e.			6		4		e.	2 h'r	2 h'r	sm'h		fair.
Bk. Achille F, S. 3° 15′, W. 26° — †	30.05	763.3	81	27.2	91	ese.			4		2		se.	0	0	mod.	sse.	clear.
Bk. Alpheus Marshall, S. 22° 23′, E. 5° 01′ *†	30.11	764.8				calm			0		3		calm	0	0	str'g	sw.	clear.
Bk. Ceylon, S. 33° 20′, E. 15° 27′ *†	30.25	768.3	65	18.3	78	nne.			5		3		nne.	light	light	long	wsw.	clear
S. Dynomene, S. 29° 18′, E. 14° 26′	30.15	765.8	64	17.8	78	se.			3		1			0	0	mod.	wsw.	clear.
Bk. Adelaide, S. 2° 52′, W. 28° 30′ *†	30.07	763.8	84	28.9		se.			5		1		se.	0	0	mod.	se.	clear.
H. P. M. S. Duque de Terceira, Mossamedes, Beng'la	30.08	764.0	68.4	20.2	72	w.			1		0			0	0	1	sw.	blue sky.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yang-tsi-Kiang river, China	29.74	755.4	80	26.7	70	sw.			1		1	sw.						blue sky.
H. M. S. Champion, Labuan Id., Oceania	29.83	757.7	82	27.8	87	calm			0		9							d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 11′	29.80	756.9	58	14.4	85	var.			1		0					1		misty.
H. M. S. Magpie, N. 4° 59′, E. 115° 06′	29.89	759.2	83.5	28.6	83	calm			0		3							misty.
H. M. S. Sheldrake, N. 9° 24′, E. 117° 23′			79	26.1		w.			2–4		8					5	sw.	showery.
H. M. S Zephyr, N. 34° 41′, E. 135° 12′	29.83	757.7	68	20.0	84	calm			0		2							d. clouds
H. P. M. S. Tamega, Macao, China	29.84	757.8	81.5	27.5	73	e.			3		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.94	760.5	65.5	18.6	84	calm			0		10			0	0			gloomy.
U. S. S. Adams, Port Mingrave, Alaska †	29.80	756.9	47	8.3	85	wsw.			2		10					sm'h		cloudy.
H. M. S. Essex, N. 1° 51′, W. 133° 11′	29.83	757.7	79	26.1	86	se.			2		5		se.			sm'h	se.	fair.
U. S. S. Hartford, Honolulu Sandwich Ids *	29.98	761.5	75.	23.9	81	calm			0		5			shr's	shr's			fair.
U. S. S. Monocacy, Salee river, Corea	29.80	756.9	61	16.1	82	w.			2		0							clear.
U. S. S. Palos, Hong Kong, China	29.72	754.9	78	25.6	73	ene.			2		2		calm					clear.
U. S. S. Richmond, Hong-Kong, China *	29.70	754.4	79	26.1	74	ne.			1		0			0	0			clear.
S. S. Arabic, N. 43° 39′, E. 159° 03′			44	6.7	76	wsw.			4		8		w.	0	0	mod.	sw.	cloudy.
S. S. Oceanic, N. 26° 35′, E. 123° 17′	29.94	760.5	74	23.3	76	ne.			4		3		e.			light	ne.	clear.
S. S. Oregon, N. 45° 42′, W. 124° 05′ †	30.32	770.1	55	12.8	84	w.			2		10		w			light	wsw.	squally.
S. S. Willamette, N. 37° 57′, W. 123° 04′ †	30.22	767.6	53	11.7	93	nnw.			6		0			0	0	r'gh	nw.	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Ancon, San Francisco, Cal †	30.12	765.0	54	12.2	80	sw.			2		0							clear.
S. S. City of Chester, San Francisco, Cal †	30.11	764.8	55	12.8	93	calm			0		0							clear.
S. S. Dakota, Strait of Juan de Fuca †	30.19	766.8	55	12.8	93	s.			4		2		s.			sm'h		clear.
S. S. Queen of the Pacific, Portland, Oregon †	30.26	768.6				s.			4		5			2 h'r	2 h'r			fair.
S. S. City of Rio de Janeiro, N. 34° 45′, E. 143° 30′ †	29.97	761.2	68	20.0	84	ssw.			3		10		sw.	0.2	5.	light	ssw.	raining.
S. S. Colima, N. 28° 23′ W. 116° 17′ †	29.90	759.4	61	16.1	82	nw.			4		10	nw.	nw.	0	0	mod.	nw.	overcast.
S. S. Granada, N. 8° 20′, W. 83° 43′ †	29.89	759.2	83	28.3	79	nw.			3		6		wsw.	2 h'r	2 h'r	mod	wsw.	fair.
S. S. San Blas, Panama, Panama			80	26.7		nw.			2		7		nw.	1 h'r	1 h'r			fair.
S. S. Zealandia, N. 21° 05′, W 156° 03′	30.06	763.5	78	25.6	91	ne.			4		0					sm'h		clear
S. S. Benledi, Kobe, Japan *	29.79	756.7	69	20.6	65	e.			1–2		3		e.	0	0	sm'h		clear.
S. S. Radnorshire Yokohama, Japan *†	29.86	758.4				ne.			3		8		ne.	0	0			
S. Sacramento, N 14° 00′ E. 119° 45′ *†	29.92	760.0	82	27.8	87	sw.			1		4		sw.	2 h'r	2 h'r	gentle	sw.	fair.
Bk. Xenia, Shanghai, China *†	29.98	761.5	76	24.4		se.			2					0	0			clear.
H. M. S. Sappho, N. 15° 42′, W. 97° 00′	29.92	760.0	79	26.1	?	w.			3		5	nw.				3	w.	d. clouds.
U. S. S. Ranger, San Jose, Gautemala	29.94	760.5	77	25.0	91	n.			2		10			0.09	2.3	sm'h		raining.
S. Henry Failing, N. 40° 50, W. 125° 47′ †	30.28	769.1	54	12.2		nnw.			3		10		nw.	0	0	long	w.	foggy.
S. Grecian, Yokohama, Japan †	29.87	758.7	67	19.4	89	nw.			4		8		nw.	0	0			cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W *†	30.06	763.5	53	11.7	73	sw.			3		5	sw.						d. clouds.
H. M. S. Espiegle, S. 1° 30′, E. 176° 11′	29.91	759.7	83	28.3	75	se.			1		2					1	se.	d. clouds.
H. M. S. Kingfisher, S. 24° 58′, W. 128° 36′	30.07	763.8	69	20.6		ese.			1		5					sm'h		d clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.75	755.6	73	22.8	95	calm			0		0							blue sky.
U. S. S. Iroquois, Valparaiso, Chili	30.13	765.3	55	12.8	81	se.			1		2							clear.
U. S. S. Lackawanna, S. 22° 54′, W. 98° 47′*	30.06	763.5	66	18.9	68	ne.			5		8		ne.			sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru †	30.08	764.0	63	17.2	83	calm			0		10							cloudy.
U. S. S. Pensacola. Callao, Peru*	29.92	760.0	63	17.2	83	sse.	5	2.2			10			0	0			misty.
U. S. S. Wachusetts, S. 20° 24′, W. 156° 00′ *†	30.19	766.8	72	22.2	95	e.			1		0					sm'h		clear.
S. S. Australia, Sydney, N. S. W	29.92	760.0	57	13.9	94	w.			1		2		w.	0	0			clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.92	760.0	81.3	27.4	80	calm			0		0					sm'h		blue sky
S. S. City of Sydney, Sydney, N. S. W *.	29.92	760.0	54	12.2	61	w.			4		0							clear.
S. S. Gordon Castle, S. 16° 56′, E. 146° 00′ *	29.99	761.7	71.0	21.7	90	sse.			3–4		4		sse.					fair.
Bk. Chas. Stewart, S. 39° 30′, E. 153° 00′ †	29.91	759.7	58	14.4		e.			6		5		e.			r'gh	var.	misty.
Bk. Edmund Phinney, Pisagua, Peru *†	30.08	764.0				nne.			3		10			0	0	sli't	w.	cloudy.
S. Parker M. Whitmore, S. 55° 42′, W. 82° 50′ *†	28.74	730.0	41	5.0		ene			6		10		ne.	5 h'r	5 h'r	cross	var.	heavy rain.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.01	762.2	83	28.3	79	s.			2		3	ssw.				2	sse.	d. clouds.
H. M. S. Tourmaline, N. 7° 20′, E. 76° 00′	29.84	757.9	84	28.9	83	wsw.			3		2	w.				1	sw.	d. clouds.
U. S. S. Enterprise, S. 28° 30′, E. 38° 43′ *	30.08	764.0	71	21.7	75	ssw.			5		5		ene.			mod.	ene.	fair.
U. S. S. Juniata, Bombay, India	29.67	753.6	86	30.0	92	nw.			2		10		nw.	h'vy	h'vy	sm'h		cloudy.
S. S. Galatia, N. 22° 57′, E. 37° 10′*†	29.76	755.9	90	32.2		nnw.			4		0			0	0	sm'h		clear.
S. S. Malabar, Bassein, India *†	29.60	751.7				sw.			6		10		sw.	16 h'r	16 h'r	sm'h		heavy rain.
S. Annie M. Law, S. 33° 24′ E. 29° 22′*†	30.32	770.1	68	20.0		sse.			2		5		s.	0	0	high	sw.	fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 5, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.03	762.8	71.2	21.8	79	e.			3		0			0	0	clear	Malaterre.
Algiers			29.93	760.2	71.6	22.0	52	w.			8		4			c	0	cloudy	Thève.
La Galle			29.93	760.1															Fonfrède.
Tunis			29.91	759.8															Jacques.
Saida			30.00	761.9															Pérès.
Tebessa			29.93	760.3	77.0	25.0	40	n.			2		1			inap.	inap.	very fair	St. Martin.
Geriville					89.6	32.0	11	sw.			6		0			0	0	clear	Forfert.
Laghouat			29.93	760.3	77.7	25.4	27	nw.			5		0			0	0	clear	Abraham.
Biskra			29.91	759.8	86.0	30.0	22	w.			8		5			0	0	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			30.34	770.6	54.2	12.3	86	calm	0	0			9			0	0	foggy	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.12	765.0	30.21	767.3	51.0	10.6	90	sw.	3	1.3			3			0.22	5.6	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.23	742.5	29.75	755.7	80.2	26.8	42	se.			3		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.97	735.9	29.70	754.4	77.7	25.4	41	w.	4.3	1.9			0			0	0		Dr. Wierzbiski
Eperies	28.90	734.0	29.73	755.1	77.0	25.0	64	s.			2	c	3 k			0	0	heavy cl'ds	Julius Mikolik.
Gratz	28.53	724.6	29.71	754.5	77.9	25.5	58	s.			3		3			0	0		Andreas Rospini.
Hermannstadt	28.45	722.5	29.80	757.0	75.2	24.0	43	wnw.			2		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28 34	719.7	29.60	751.7	77.0	25.0	60	e.			1		5 k			0	0		The Staff.
Lemberg	28 81	731.7	29.74	755.4	75.6	24.2	39	ne.			3		2			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.69	754.0	29.83	757.7	78.8	26.0	56	se.			4		4			0	0	lightning	I. R.Hydrographic Office.
Szathmar	29.32	744.8	29.77	756.1	79.2	26.2	71	sw.			3		4			0.012	0.3		Joseph Midlinszky, S. J.
Szegedin	29.52	749.9	29.79	756.6	79.5	26.4	46	se.			1		6			0	0		Karl Stancel.
Trieste	29.69	754.1	29.79	756.6	76.8	24.9	56	calm			0		4			0.402	10.2		Royal Academy.
Vienna	29.01	736.9	29.69	754.0	80.6	27.0	52	se.			3		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.03	762.7	30.13	765.3	49.6	9.8	70	ese.	8	3.6			9			0	0	overcast	W. Boswell.
Armagh, Observatory	29.74	755.4	29.97	761.2	62.7	17.1	56	ene.	10	4.5			0					blue sky	S. Call.
Bidston, Liverpool Obs'y			29.91	759.7	68.0	20.0	75	e.	18	8.0			0					blue sky	John Hartnup.
Bolton, Sharples	29.42	747.3	29.94	760.5	65.6	18.7	47	ese.	18	8.0								blue sky	Thomas Mackereth.
Bradford, Yorkshire	29.59	751.6	29.98	761.5	61.8	16.6	53	se.			2		0			0	0	blue sky	McLandsborough&Preston.
Bridgetown, Barbadoes	30.07	763.8	30.10	764.5	80.0	26.7	91	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.80	756.9	29.90	759.5	67.6	19.8	49	ne.			2.0		0					blue sky	John McLaren.
Chatham, School M. E.	29.73	755.1	29.86	758.4	63.0	17.2	60	e.			5		4					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.54	750.3	29.76	755.9	66.6	19.2	67	ese.			2		3					blue sky	The Staff.
Fort Napier, Natal	27.78	705.6	30.00	762.0	61.5	16.4	43	se.			1		1					blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	79.0	26.1	82	s.			1		5					raining	J. W. Smith.
Galway, Queen's College	29.81	757.2	29.84	757.9	69	20.6	61	e.			2		1			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	70.2	21.2	85	nw.			2		7					gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.84	757.9	30.04	763.0	56.0	13.3	66	ene.			6		3					squally	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.67	753.6	29.84	757.9	72.4	22.4	39	ne.			5		1					blue sky	The Staff.
Guernsey	29.43	747.5	29.72	754.9	64.0	17.8	78	ne.			2		7					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.80	756.9	29.84	757.9	68.5	20.3	33	ne.	24	10.7			1					hazy	The Staff.
Leicester, Museum	29.66	753.4	29.91	759.7	64.2	17.9	46	ne.			2							blue sky	J. C. Smith.
Malta, Mediterranean	29.66	753.4	29.73	755.1	73.2	22.9	94	se.										blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.19	766.8	82.8	28.2	73	e.			3		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.40	746.7	29.91	759.7	62.1	16.7	49	w.			6		0					blue sky	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.65	753.1	29.88	758.9	62.7	17.1	52	ne.			5		6					d. clouds	The Staff.
Plymouth	29.66	753.4	29.74	755.4	73.1	22.8	58	ene.			5		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.02	762.5	30.12	765.0	52.2	11.2	66						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.78	756.4	29.84	757.9	81.6	27.6	34	ne.			1		1					blue sky	W. H. Lyne.
Sheffield	29.71	754.6	29.99	761.7	62.9	17.2	57	ne.			4		0			0	0	blue sky	W. F. Cooper.
Silloth Rectory	29.96	761.0	29.99	761.7	58.9	14.9	78	e.			5		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.97	761.2	62.3	16.8	55	ene.	18	8.0								blue sky	W. C. Carlisle.
Truro, Royal Institution	29.74	755.4	29.84	757.9	78	25.6	50	e.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.78	756.4	29.80	756.9	66.4	19.1	65	e.	13	5.8			9					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.43	747.5	29.83	757.7	79.5	26.4	50	w.	1.2	0.5		1 c		w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.85	758.2	29.89	759.2	58	14.4	89	sw.	11	4.9			10 n		w.	0.340	8.6	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.80	756.9	29.86	758.4	66	18.9	87	w.	7	3.1		0	0			0.11	2.8	clear	G. A. Blair.
Cornwall, Ontario	29.96	761.0	30.15	765.8	56.7	13.7	83	w.			1		10 s			0.020	0.5	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.79	756.7	29.84	757.9	57.5	14.2		w.			1	0	7 k			0.240	6.1	d. clouds	H. A. Johnson.
Father Point, Quebec*	29.85	758.2	29.87	758.7	45	7.2	86	w.	20	8.9			fg.			0.08	2.0	foggy	J. McWilliams.
Fort Garry, Manitoba*	28.89	733.8	29.71	754.6	55	12.8	86	s.	19	8.5		0	8 ks		s.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.88	758.9	29.94	760.5	67.0	19.4	72	w.	10	4.5		0	4 ks			0.090	2.3	d. clouds	Prof. Harrison, L. L. D.
Granton, Ontario	29.06	738.1	30.15	765.8	55.0	12.8	100	se.	2	0.9		cs	0			0	0	fine	Jas. Grant.
Halifax, N. S*	29.88	758.9	30.01	762.2	55	12.8	100	nw.	4	1.8			fg.			0.320	8.1	foggy	A. Allison.
Hamilton, Ontario	29.73	755.1	30.11	764.8	61.7	16.5		ne.			2	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.87	758.7	30.20	767.1	55	12.8	80	n.	1	0.4		5 c	0			0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.84	757.9	29.88	758.9	60.2	15.7	87	s.			4	8 ks	0		s.	0	0	d. clouds	C. H. Rigby.
London, Ontario	29.28	743.7	30.17	766.3	56.7	13.7	96	calm			0		10 n			0	0	overcast	E. B. Reed.
Montreal, Quebec*	29.91	759.7	30.11	764.8	61	16.1	75	w.	16	7.2			10 z.			0.02	0.5	hazy	C. H. McLeod, C. E.
Ottawa, Ontario	29.93	760.2	30.17	766.3	56.8	13.8	86	nw.			3		10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.48	748.8	30.17	766.3	53	11.7	86	se.	5	2.2		1 cs	0	w.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.49	749.0	30.22	767.6	57.7	14.3	64	e.			1	2 c	0	e.		0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.39	746.5	30.18	766.6	56	13.3	94	ne.	4	1.8		5 c	0	w.		0	0	fair	H Morgan.
Port Stanley, Ontario	29.50	749.3	30.14	765.5	60	15.6	90	e.	12	5.4		5 ck	0	w.		0	0	fair	M. Payne.
Quebec, Quebec*	29.02	752.3	29.96	761.0	62	16.7	78	sw.	15	6.7		0	8 ks		nw.	0.72	18.3	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.70	754.4	30.16	766.1	54	12.2	86	nw.	2	0.9		5 c	2 ks	sw.	nw.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.91	759.7	29.96	761.0	52	11.1	96	e.	1	0.4			10			0.15	3.8	foggy	
St. John, N. B	29.80	756.9	29.97	761.2	49.0	9.4	92	sw.	9	4.0			fg			0.350	8.9	foggy	G. Murdock, C. E.
Saint John's, N. F	30.05	763.3	30.30	769.6	49	9.4	78	s.			1		10 n			0	0	foggy	J. Higgins.
St. Pierre, N. F			30.04	763.0	47.1	8.4		n.			2					0	0		The Commandant.
Saugeen, Ontario*	29.43	747.5	30.14	765.5	52	11.1	77	se.	10	4.5		5 cs	0			0	0	clear	
Stratford, Ontario	28.91	734.3	30.18	766.6	54.3	12.4	92	se.	10	4.5		0	7 s			0	0	blue sky	G. J. Macgregor, M. A.
Sydney, C. B*	29.87	758.7	29.93	760.2	56	13.3	93	sw	19	8.5			10 n			0.08	2.0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.84	757.9	30.22	767.6	55	12.8	77	n.	3	3.1		5 cs	0	w.		0	0	fair	Magnetic Observatory.
Windsor, N. S	29.85	758.2	29.94	760.5	62.5	16.9	91	w.	6	2.7			10 ks			0	0	overcast	Prof. W. R. Butler, M.A.
Woodstock, Ontario	29.14	740.1	30.19	766.8	57.1	13.9	86	ne.	11	4.9		5 cs	0	w.		0	0	d. clouds	Prof Wolverton, M.A.
Yarmouth, N. S*	29.97	761.2	30.04	763.0	49	9.4	100	w.	4	1.8			fg.			0.07	1.8	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.06	763.5	30.09	764.3	72.0	22.2	39	nw.	11.3	5.1		5c	0			0	0	clear	John Duthie
Springbok Fontein	28.07	713.0			64	17.8	39	e.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.63	752.6	29.74	755.4	80.6	27.0	40	e.			1		3			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.82	757.5	29.85	758.2	68.4	20.2	77	sse.	5.6	2.5		0	0			0	0	clear	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.70	754.4	29.75	755.6	63.1	17.3	59	nne.	11	5			2						Oversergent Fischer.
Fanoe	29.81	757.1	29.83	757.6	61.9	16.6	60	nw.			6		3						Overloerer Lauridsen.
Godthaab, Greenland	29.65	753.0	29.69	754.1	32.2	0.1	89	s.			4		10					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.59	751.5	29.63	752.7	34.9	1.6		sw.			2		9					foggy	
Stykkisholm, Iceland	29.85	758.3	29.90	759.4	50.0	10.0	83	s.			8		10					raining	A. O. Thorlacius.
Thorshavn	30.17	766.3	30.19	766.9	53.4	11.9	74	calm	0	0			5						Overloerer Bergh.
Vestervig	29.79	756.6	29.88	758.9	59.2	15.1	68	nne.			6		1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.74	755.4			86.4	30.2		n.	8.3	3.7		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.18	741.2	29.81	757.2	68.7	20.4	89	calm			0		8			0.890	22.6	very cloudy.	M. Labroue, Director.
Alençon, Normal School	29.20	741.6	29.75	755.6	72.7	22.6	77	nne.			1	0	8 sn		ssw.	0.24	6.	very cloudy.	M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.66	753.3	29.74	755.3	71.2	21.8	67	sse.			1		5		s.	0.067	1.7	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.16	740.6	29.68	753.9	78.3	25.7	48	nnw.			2	0	5 kn		n.	0.390	9.9	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.46	748.2	29.71	754.6	79.3	26.3	53	wsw.			2		8		ene.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.78	731.0	29.63	752.6	75.2	24	75	sw.			1		10 kn		ne.			raining	M. Gobin, Director.
Bordeaux, Observatory	29.42	747.2	29.67	753.7	66.2	19.0	77	nnw.			1		8		nnw.	1.000	25.4	almost cov'd	M. Rayet, Director.
Bourges, Normal School	29.13	740.0	29.66	753.3	74.3	23.5	53	ne.			4		n		ne.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.54	750.2	29.78	756.4	65.1	18.4	84	ne.			1		5		ne.	5.118	130.0		M. de Kermarrec, Dir.
Caen, Normal School	29.61	752.2	29.69	754.0	71.2	21.8	84	nnw.			2		5		nw.	0.228	5.8	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.35	745.5	29.65	753.2	81.1	27.3	54	s.			1		8		ne.	0.295	7.5	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.18	741.2	29.67	753.5	80.6	27.0	72	ne.			1		10			0.08	2.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.35	720.2	29.63	752.6	76.8	24.9	43	se.			2		c;ck 5 k			0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	28.84	732.6	29.66	753.3	75.2	24	62	n.			1		8		e.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.85	732.8	29.66	753.3	78.3	25.7	48	e.			1		cn	e.	e.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.24	691.8	29.69	754.0	62.6	17	80	s.			1		10		s.	0.51	13.	raining	M. Jeangirard, Director.
Gréasque, du Rhone	28.65	727.6	29.74	755.5	69.4	20.8	58	sw.			3		7		sw.	0.12	3.		M. Kina, Director.
Grenoble. Normal School	28.95	735.3	29.68	753.9	67.8	19.9	87	se.			1		10 kn		nw.	1.34	34.	raining	M. Ablard, Director.
Guéret, Normal School	28.11	714.0	29.58	751.4	82.0	27.8	36	ssw.			1	ck	0		sw.	0.067	1.7		M. Delorme, Dir.
Lamballe, Normal School	29.62	752.3	29.89	759.1	68.0	20	84	n.					fg		n.	1.06	27.	foggy	M. Ollitrault, Director.
Lescar, Normal School	29.14	740.2	29.67	753.6	59.9	15.5	95	sw.			4		5			2.480	63.0	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.61	752.0	29.71	754.6	73.8	23.2	74	s.			1		8	sw.	se.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.69	728.6	29.71	754.6	64.9	18.3	68	sse.			1		10			0	0	stormy	M. André, Director.
Mans, Normal School	29.41	746.9	29.70	754.4	70.0	21.1	81	e.			1		10			0.031	0.8	covered	M. Piboën, Director.
Marseille, Observatory	29.51	749.5	29.77	756.2	70.9	21.6	69	s.			1		10		s.	0.205	5.2		M. Stephan, Director.
Montlouis	24.56	623.9	29.41	746.9	49.6	9.8	64	sw.	5.6	2.5			8			0.248	6.3		M. Cave for Dr. Fines.
Montpellier, Normal School	29.56	750.7	29.68	753.8	70.5	21.4	73	ssw.			3		5		wnw.	0	0	fair	M. Gulzin, Director.
Nancy, Normal School	28.94	735.0	29.68	753.9	80.6	27.0	57	nnw.			1	ck	0			0	0		M. Hasse, Director.
Nantes, Observatory	29.55	750.6	29.71	754.7	73.6	23.1	67	se.			0–1		10 kn;n		se.	0.866	22.0		M. Larocque, Director.
Perpignan, Observatory	29.54	750.4	29.65	753.2	70.3	21.3	54	e.	9.4	4.2			10		ssw.	0.449	11.4		Dr. Fines, Director.
Pic-du-Midi, Summit	21.00	533.3			28.9	— 1.7		w.			3–4		10		w.	4.370	111.0	snowy	M. Vaussenat, Director.
Privas, Normal School	28.65	727.6	29.67	753.7	68.0	20	57	e.			1		10 n		se.	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.94	633.4			53.6	12.0	67	se.			4		2			0	0	¼ covered	M. Alluard.
Rochefort, Naval Obs'y	29.63	752.6	29.66	753.4	74.1	23.4	74	wsw.			1		2		se.	0.08	2.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.42	747.2	29.63	752.5	70.9	21.6	78	se.			1		2		se.	0.768	19.5	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.62	701.5	29.65	753.1	73.8	23.2		e.			3	0	5 kn		ne.	0.16	4.	fair	M. Seger, Director.
Rouen, Normal School	29.69	754.0	29.73	755.2	82.8	28.2	47	ssw.			1		5	ese.		0	0	cloudy	M. Moullot, Dir.
Saint Maur, Observatory	29.57	751.1	29.73	755.2	78.6	25.9	44	wsw.			1		6		ese.	0	0		M. Renou, Director.
Toulouse, Observatory	29.01	736.8	29.72	754.9	64.9	18.3	68	se.			2		8	nw.		1.398	35.5	very cloudy	M. Baillaud, Director.
Tours	29.50	749.4	29.68	753.9	78.8	26.0	48	ne.			1		5	s.	ese.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.25	743.0	29.74	755.5	74.8	23.8	46	sw.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.65	753.0	29.80	756.8	61.7	16.5	85	nw.	25.5	11.4			10 n		w.	1.575	40.0	raining	M. Cartier, Director.
GERMAN.																			
Ansbach	28.30	718.8	29.65	753.1	82.6	28.1	35	e.			2		1	e.		0.016	0.4		Prof. Jnedt.
Bamberg	28.87	733.3	29.71	754.5	76.3	24.6	33	se.			2	0	4 k		s.	0	0		Prof. Dr. Hoh.
Berlin	29.61	752.1	29.75	755.6	78.1	25.6	33	nw.			2		3			0	0		Dr. Sensch.
Breslau	29.26	743.2	29.79	756.6	79.0	26.1	26	ese.			2		1	wnw.		0	0		Royal University Obs'y
Carlsruhe	29.21	741.8	29.63	752.6	82.4	28.0	44	e.			2		2	se.		0	0		Albert Senz.
Cassel	29.02	737.0	29.73	755.1	81.9	27.7	34	n.			5		1	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.65	753.0	84.4	29.1	30	e.			1		1			0	0		Physical Society.
Friedrichshafen	28.26	717.8	29.58	751.4	79.2	26.2	52	sw.			1		2	w.		0.059	1.5		Wilhelm, Chief Tel.
Hamburg	29.74	755.3	29.83	757.6	68.5	20.3	52	nnw.			4		2	nw.		0	0		E. Preller.
Kiel	29.80	756.9	29.82	757.3	65.7	18.7	40	ne.			2		4			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.33	744.9	29.72	755.0	81.7	27.6	27	ene.			2		2	e.		0	0		H. Leppig, Asst.
Magdeburg	29.56	750.8	29.74	755.3	77.9	25.5	39	n.			1		0			0	0		Weather Observatory.
Memel	29.73	755.1	29.78	756.3	61.9	16.6	73	w.			3	0	8 ks						Issermann.
Munich	27.90	708.7	29.74	755.5	77.5	25.3	36	ne.			1		2	s.		0	0		Central Station.
Neufahrwasser	29.74	755.3	29.75	755.7	66.7	19.3	40	ne.			2		5			0	0		A. Lothes.
Neustadt, Palatinate	29.16	740.7	29.68	753.9	83.5	28.6	35	ene.			2		4			0	0		Dicknether.
Stuttgart	28.73	729.7	29.56	750.7	83.3	28.5	33	s.			4		2	e.		0	0		Prof. Dr. Schoder.
Wustrow	29.81	757.1	29.84	757.8	60.1	15.6	74	wnw.			4		8 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.53	750.0	29.90	759.4	78.1	25.6		s.			1.0		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.42	747.3	29.47	748.5	89.3	31.8	79	w.	34.0	15.2			6		w	0	0	d. clouds	
Deesa	28.98	736.2	29.43	747.6	101.9	38.8	27	sw.	19.0	8.5			0			0	0	blue sky	
Bombay	29.58	751.4	29.62	752.3	82.6	28.1	87	w.	19.0	8.5			10		wsw.	1.32	33.5	overcast	
Poona, Yarrowda	27.78	705.5	29.62	752.5	76.8	24.9	78	sw.	36.0	16.1			10			0.85	21.6	overcast	
Trichinopoly	29.45	748.0	29.72	754.9	94.9	34.9	42	w.	1.0	0.4			8	ne.	ne.	0	0	d clouds	
Belgaum	27.15	689.6	29.71	754.6	68.0	20.3	93	e.	15.0	6.7			10	w.		1.13	28.7	drizzling	
Lahore	28.65	727.6	29.36	745.6	96.2	35.7	29	ne.	2.0	0.9			3			0.05	1.3	gloomy	
Roorkee	28.64	727.4	29.55	750.6	68.2	20.1	98	nw.	15.0	6.7			10		w.	1.60	40.6		
Agra	28.86	733.1	29.40	746.9	93.1	33.9	31	nw.	22.0	9.8			0			0	0	blue sky	
Nagpur	28.42	722.0	29.42	747.2	99.5	37.5	27	ese.	4.0	1.8			4		nw.	0.29	7.4		
Jubbulpore	28.12	714.2	29.40	746.8	101.9	38.8	25	nw.	4.0	1.8			7		nw.	0	0	gloomy	
Lucknow	28.99	736.3	29.34	745.3	103.4	39.7	38	calm	0	0			0			0	0	blue sky	
Allahabad	29.05	737.8	29.34	745.3	103.1	39.5	31	nne.	2.0	0.9			1	sw.		0	0	d. clouds	
Patna	29.22	742.2	29.40	746.7	99.1	37.3	31	ne.	5.8	2.6			0			0	0	blue sky	
Hazaribagh	27.47	697.8	29.40	746.8	92.5	33.6	39	n.	7.4	3.3			1			0	0	blue sky	
Cuttack	29.36	745.7	29.44	747.7	91.3	32.9	65	w.					0			0.03	0.8	blue sky	
Calcutta, Alipore	29.42	747.3	29.44	747.7	92.9	33.8	58	wnw.	3.0	1.3			2			0.39	9.9	d. clouds	
Dhubri	29.35	745.5	29.46	748.2	84.3	29.1	79	calm	1.2	0.5			5	sw.		0.07	1.8	d. clouds	
Chittagong	29.41	747.0	29.50	749.3	81.9	27.7	87	w.	3.5	1.6			8			0	0	d. clouds	
Sibsagar	29.17	740.9	29.50	749.4	80.9	26.7	91	ne.	2.0	0.9			10	w.	w.	0.15	.38	d. clouds	
Teypore	27.99	711.0	29.37	745.9	99.7	37.6	25	wnw.	7.9	3.5			0			0	0	misty	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Zanzibar	29.97	761.3	29.99	761.8	85.7	29.8	63	se.	5.1	2.3			3	sse.		0	0	d. clouds	
Bellary	28.20	716.3			85.0	29.4	49	sw.	4	1.8		5 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.39	746.5	29.78	756.5	80.6	27.0	49	sw.	1.3	0.6			6			0	0		Prof. Giovanni Clodig.
Milan	29.24	742.8	29.74	755.5	72.7	22.6	71	se.					10	sse		0	0		Prof. G.V.Schiapparelli.
Padua	29.67	753.5	29.77	756.2	77.7	25.4	41	se.	11.9	5.3			6			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.88	733.6	29.76	755.9	60.8	16.0	92	w.	4.9	2.1			9	nw.		1.039	26.4		Prof. F. F. Denza.
Genoa	29.60	751.9	29.79	756.7	70.5	21.4	75	s.	4.3	1.9			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.87	708.0	29.73	755.2	63.7	17.6	73	wnw.			4		8			0	0		Prof. D. C. Bruno.
Pesaro	29.74	755.4	29.79	756.6	74.1	23.4	78	se.	6.9	3.1			10	sw.		0	0		Prof. Luigi Guidi.
Florence	29.52	749.8	29.77	756.1	79.7	26.5	51	e.			2		10	s.		0.079	2.0		Prof. Costantino Pittei.
Leghorn	29.65	753.2	29.74	755.3	72.1	22.3	78	ssw.	1.3	0.6			10	s.		0.008	0.2		Prof. P. Monte.
Rome	29.63	752.6	29.80	756.9	80.2	26.8	48	sw.	18.1	8.1			6			0	0		Prof. P. Tacchini.
Lecce	29.60	751.7	29.84	757.9	81.0	27.2	36	sse.	13.7	6.1			7	sw.		0	0		Prof. C. de Giorgi.
Cosenza	28.95	735.4	29.81	757.1	82.4	28.0	70	ssw.	3.1	1.4			5	sw.		0.008	0.2		Prof. D. Conti.
Cagliari	29.57	751.1	29.76	755.8	74.1	23.4	51	nw.			4		8	sw.		0.024	0.6		Prof. A. Pacinotti.
Palermo	29.58	751.4	29.83	757.7	75.7	24.3	59	nw.	15.0	6.7			10			0	0		Prof. G. Cacciatore.
Syracuse	29.84	757.9	29.88	759.0	75.2	24.0	77	e.	4.3	1.9			10	sw.		0.039	1.0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.29	744.0	29.80	756.8	77.4	25.2	57	w.	7.4	3.3			9	nw.		0	0		Prof. F. Brioschi.
Stelvio	22.13	562.0			47.5	8.6	70	wsw.			2		8			0.583	14.8	covered	Prof. P. F. Denza.
Valdobbia	22.14	562.2			41.7	5.4	72	ne.			2		10			0.276	7.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.99	761.7	30.02	762.6	59.2	15.1	85	e.			2	0	0			0	0	clear	H. Hattori.
Awomori	29.98	761.5	30.02	762.5	53.8	12.1	75	nne.	5.1	2.3		0	0			0	0	clear	K. Ogawa.
Hamamatsu	29.90	759.4	29.93	760.1	64.0	17.8	74	ene.			4	5 cs	0			0.028	0.7	fair	Y. Sekigawa.
Kanazawa	29.79	756.8	29.89	759.3	64.1	17.8	81	e.	2.8	1.2		3	2			0	0	fair	S. Endo.
Kagoshima	29.89	759.1	29.90	759.4	67.4	19.7	62	n.			2	0	0			0	0	clear	G. Miyanonaza.
Kioto	29.72	754.9	29.89	759.3	68.2	20.1	76	ne.	0.9	0.4		0	8 s			0	0	fair	M. Tojima.
Kochi	29.89	759.2	29.91	759.7	70.9	21.6	79	se.	6.1	2.7			9 s		se.	0	0	overcast	K Kusunose.
Miasaka	29.88	758.8	29.90	759.5	67.3	19.6	94	e.			1	0	1 ck		w.	0	0	clear	K. Masusaki.
Miyako	30.01	762.3	30.12	765.1	50.4	10.2	88	s.	0.2	0.1			10 s			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.69	754.1	29.89	759.2	66.0	18.9	89	calm	0	0		0	0			0	0	misty	S. Takehayashi.
Niigata	29.88	758.9	29.91	759.7	64.0	17.8	62	se.	12.4	5.5			10 cks			0	0	cloudy	M. Morita.
Nobiru	30.09	764.2	30.10	764.6	50.9	10.5	90	ene.	7.0	3.1		4 cs	6 s			0	0	covered	H. Midzushima.
Numazu	29.93	760.2	29.96	761.1	62.1	16.7	68	ese.			4	0	3 s			0.173	4.4	fair	R. Kaneda.
Osaka	29.87	758.6	29.88	759.0	67.5	19.7	85	w.	3.4	1.5		5 cs	2 s			0	0	fair	H. Omura.
Sakai	29.90	759.5	29.91	759.7	61.8	16.6	87	ne.			2	0	2 ks		ne.	0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	29.95	760.7	30.02	762.6	58.8	14.9	79	ne.	8.2	3.7			10s;ks		ne.	0.050	1.3	cloudy	The Staff
Wakayama	29.82	757.5	29.87	758.8	68.6	20.3	81	sw.	2.3	1.0		5 cs	0	s.		0	0	fair	K. Sakai.
Shimonoseki	29.76	755.8	29.90	759.4	65.2	18.4	92	calm			0	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.82	757.4	30.01	762.2	76.2	24.6	71	se.	12.0	5.4		0	4 ks		se.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.68	601.5	29.90	759.5	60.4	15.8	81	ssw.	inap.	inap.		6 ck	0	ssw.		1.071	27.2	fair	Prof. Vicente Fernandez.
Leon	24.32	617.7	29.97	761.2	60.1	15.6	82	ssw.	0.9	0.4		0	8 ck;n		ne.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.67	753.7	29.93	760.2	75.5	24.2	88	e.	1.6	0.8		5 cs	0	sw.		0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					77	25.0	85	s.	12.8	5.7		0	7 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.78	756.5	29.78	756.5	71.1	21.7		ne.			5					0	0		
Groningen	29.84	758.0	29.90	759.4	57.9	14.4		se.			4					0	0		
Helder	29.89	759.1	29.89	759.1	56.3	13.5		ne.			5					0	0		
Hellevoetsluis	29.82	757.4	29.82	757.4	70.2	21.2	51	ene.			4					0	0		
Utrecht	29.79	756.6	29.84	757.8	70.0	21.1	46	nne.			4		0			0	0	clear	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.2			82.0	27.8	71	ene.	0	0			10			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.89	759.3	29.96	760.9	56.5	13.6	50	nnw.	18	8			2			0	0		
Brono	29.93	760.2	29.97	761.2	51.8	11.0	63	nnw.			4		2			0.169	4.3		
Christiania	29.73	755.2	29.87	758.8	62.1	16.7	27	nne.	7	3			3			0	0		
Gjæsvær	30.06	763.5	30.08	764.1	47.1	8.4		wnw.			2		10						
Lodingen	29.98	761.4	30.02	762.6	52.0	11.1	61	ne.			3		1			0	0		
PORTUGUESE.																			
Angra, Azores	29.96	761.0	30.12	765.0	61.9	16.6	81	wnw.	9.8	4.4			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.07	738.3	30.07	763.7	59.9	15.5	84	wnw.	9.4	4.2			10			0.315	8.0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.17	766.3	30.20	768.5	65.8	18.8	56	n.	1.3	0.6			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	755.9	30.10	764.4	62.8	17.1	78	sw.	16.8	7.5			6			0.079	2.0		The Staff.
Ponta Delgada, Azores	30.09	764.2	30.16	766.0	68.0	20.0	61	wnw.	7.4	3.3			4			0	0		
Saint Paul de Loando	29.82	757.3	30.02	762.5	75.2	24.0	89	wsw.			1		10			0	0		
San Salvador	28.15	715.0	29.98	761.4	79.5	26.4	60	nw.			3		4			0	0		
Serra da Estrella	25.26	641.7	30.03	762.8	44.4	6.9	100	wnw.	19.9	8.9			10			1.575	40.0	rain & fog	
RUSSIAN.																			
Akmolinski	28.74	730.1	29.78	756.4	67.1	19.5	25	ne.	4	2		0	1 k			0	0		Major K. Lasarew.
Archangel	29.98	761.6	30.00	762.1	75.6	24.2	33	ne.	9	4		0	0			0	0		Capt. Sseliwerstow
Ashurada	29.73	755.2	29.64	752.8	81.3	27.4	68	wnw.	11	5		1 ck	0			0	0		
Astrakhan	29.80	756.9	29.72	754.8	73.4	23.0	58	nne.	9	4			9 s n			0.083	2.1		Capt. Wisganow.
Baku	29.68	753.9	29.63	752.7	76.5	24.7	61	n.	22	10		0	0			0.400	10.3		
Barnaul	29.31	744.5	29.80	756.8	64.0	17.8	37	calm	0	0			5			0	0		Meteorological Obs'y
Bielosersk	29.52	749.7	29.97	761.3	64.9	18.3	53	s.	2	1		0	7 ks			0	0		
Dorpat	29.54	750.3	29.77	756.2	69.1	20.6	53	wsw.	4	2			10 ks			0.008	0.2		Observatory.
Ekaterinburg	28.98	736.1	29.91	759.7	68.5	20.3	40	ne.	9	4		6c;ck	0			0.079	2.0		Meteorological Obs'y
Elissawetgrad	29.41	746.9	29.84	757.9	72.9	22.7	47	sw.	7	3		0	7 kn			0.035	0.9		
Irkutsk	28.24	717.3	29.84	758.0	58.1	14.5	57	calm			0		8			0	0		
Kasalinsk	29.17	740.8	29.34	745.3	79.9	26.6	44	s.	4	2			10 ks						
Kasan	29.62	752.3	29.88	758.9	66.7	19.3	33	ene.	11	5			10			0	0		Observatory.
Kem	29.92	759.9	29.97	761.2	65.3	18.5	60	e.	9	4		0	5 ks			0	0		
Kertch	29.87	758.6	29.89	759.2	66.0	18.9	47	n.	9	4		3 c	0			0	0		Lagorio & Sastyrez.
Kieff	29.17	740.9	29.78	756.4	68.7	20.4	37	nne.	7	3		0	4 ks			0	0		Observatory.
Koslov	29.28	743.8	29.81	757.2	58.3	14.6	93	nne.	5	2			10 ks			0	0		
Libau	29.71	754.5	29.73	755.1	55.0	12.8	77	w.	7	3			10			0	0	light fog	E. Quaas.
Lugan	29.58	751.2	29.70	755.8	65.8	18.8	53	nw.	13	6			9			0.012	0.3		Meteorological Obs'y.
Moscow	29.41	746.9	29.87	758.8	57.9	14.4	70	nne.	2.2	1.0			10 n			0.031	0.8		**Meteorological Obs'y**
Nikolaiev	29.80	756.9	29.87	758.8	69.8	21.0	78	sw.	9	4		0	7 kn			0.146	3.7		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.67	753.5	29.75	755.7	52.0	11.1	90	e.	2	1			9			0	0		Iwanow.
Pekin, China	29.64	752.8	29.78	756.4	72.5	22.5	42	calm	0	0		0	7 n			0	0		Physical Observatory.
Petro-Alexandrovsk	29.29	744.0	29.61	752.2	95.4	35.2	19	se.	2.2	1.0			9 ks			0	0		
Petrozavodsk	29.68	753.8	29.87	758.6	67.1	19.5	42	se.	22	10		0	1 k			0	0		Dr. Bergmann.
Pinsk	29.30	744.1	29.77	756.2	72.2	22.4	46	sse.	2	1			10 s			0	0		
Poti	29.79	756.7	29.82	757.5	68.0	20.0	93	sw.	9	4			10 n			0.224	5.7	raining	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
St. Petersburg	29.80	756.9	29.82	757.5	67.3	19.6	40	s.	7	3		0	8 kn			0	0		Central Physical Obs'y.
Samarkand	27.34	694.4	29.64	752.8	85.6	29.8	28	se.	3.4	1.5			0			0	0		
Semipalatinsk	29.23	742.4	29.87	758.7	63.1	17.3	33	n.	13	6			7			0	0		Major Lasarew
Sevastopol	29.66	753.3	29.87	758.8	73.2	22.9	46	sw.	20	9		0	1 ks			0	0		
Staroi Bykhov	29.40	746.8	29.83	757.8	76.1	24.5	23	ese.	4	2		0	6 k			0.024	0.6		
Tashkend	28.11	714.1	29.66	753.3	88.2	31.3	26	calm	0	0		0	2 k			0	0		Terch, A. M.
Tiflis	28.35	720.1	29.71	754.5	72.7	22.6	49	nnw.	18	8		0	4 n			0.449	11.4		Physical Observatory.
Vernoe	27.26	692.3	29.62	752.4	76.3	24.6	47	calm	0	0		0	4 k			0.335	8.5		
Vlatka	29.29	744.0	29.90	759.4	73.6	23.1	38	calm	0	0		0	1			0	0		
Warsaw	29.32	744.7	29.72	754.8	78.8	26.0	36	sw.	7	3		0	5 ks			0.035	0.9		Astronomical Obs'y.
Yeniseisk	29.56	750.7	29.84	757.9	53.8	12.1	59	wnw.	2	1			6			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.01	762.2	62	16.7	94	calm			0	0	0			0	0	clear.	J. Youngclause
North Unst			30.08	764.0				n.			3		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.65	753.2	29.76	755.8	66.6	19.2	72	w.	4.3	1.9			9			0.110	2.8		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.84	758.0	29.90	759.5	63.9	17.7	69	nw.	4.9	2.2			10			0.713	18.1	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.96	684.7	29.88	758.9	59.0	15.0	60	sw.	9.8	4.4		0	4			0.386	9.8		Domingo Martin.
Madrid, Royal Obs'y	27.73	704.4	29.92	759.9	63.9	17.7	53	w.	18.1	8.1		0	4			0	0		The Staff.
Murcia, Met. Obs'y	29.78	756.4	29.91	759.7	76.6	24.8	58	nnw.	4.0	1.8		2	3	sw.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.11	739.3	29.87	758.6	61.7	16.5	69	e.	7.8	3.5		6 kn	2 k	e.	w.	0.098	2.5	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.00	736.6	29.89	759.1	60.4	15.8	88	sw.	6.9	3.1			10			0.047	1.2	sprinkling	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	762.1	30.07	763.8	77.2	25.1	87	se.	2.2	1.0		10 cs	0	s.		0.11	2.9	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.9	29.82	757.3	79.0	26.1	95	wnw.	6.6	3.0			10 n		sw.	0.441	11.2	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.06	763.4	30.15	765.9	67.8	19.9	69	w.	13.8	6.2		0	7		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.8	30.08	764.1	79.2	26.2	91	calm	0	0		4 cs	2kn	se.	se.	0.244	6.2	d. clouds	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.87	758.7	29.91	759.7	65.5	18.6	75	s.			2		4			0	0		
Umea	29.85	758.3	29.91	759.6	62.8	17.1	44	se.			4		4			0	0		
Hernosand	29.80	756.9	29.85	758.2	56.1	13.4	50	w.			4		10			0	0		
Stockholm	29.68	753.9	29.86	758.4	45.9	7.7	96	n.			4		10					raining	
Wisby	29.71	754.5	29.76	756.0	50.0	10.0	95	ne.			4		10			0	0		
Sub-series.																			
Upsala	29.77	756.2	29.86	758.4	46.0	7.8	85	n.	14.8	6.6			10		n.	0.098	2.5	raining	S. G. Fineman.
SWISS.																			
Geneva	28.28	718.4	29.65	753.0	76.6	24.8	56	ssw.			2		7			0	0	cloudy	The Observatory.
TURKISH.																			
Constantinople			29.90	759.4	75.2	24.0	40	ne.	14	6.5			2		n.	0	0		The Observatory.
Valona			29.97	761.1	80.8	27.1		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	756.9	79.0	26.1	58	w.			2		1 k		w.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.70	678.2			68	20.0	81						4 k		nw.	0.1	3.	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.11	764.8	30.19	766.8	71	21.7	66	calm	0	0		hz.	hz.			inap.	inap.	dense haze	J. O. Barnes.
Alpena, Michigan	29.47	748.5	30.12	765.0	50	10.0	77	se.	10	4.5		4 c	2 s	w.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.03	635.8	29.78	756.4	45	7.2	65	e.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	29.93	760.2	49	9.4	52	w.	26	11.6			10 s		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.07	738.4	30.22	767.6	72.0	22.2	83	e.	7	3.1		4 c	0			0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	30.20	767.1	30.21	767.3	63	17.2	90	s.	9	4.0		0	hz.			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.10	764.5	30.29	769.4	73.0	22.8	84	se.	1	0.4			10 s			0	0	cloudy	John Healy.
Baltimore, Maryland	30.18	766.6	30.23	767.8	71	21.7	90	s.	6	2.7		0	0			0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.18	766.6	30.20	767.1	72.0	22.2	76	sw.	4	1.8		0	3k;fg		w.	0	0	clear	G. A. Hill.
Behring Id., Behring Sea	30.03	762.7	30.05	763.3	40.4	4.7	91	s.	5	2.2			10 n			0.03	0.8	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.19	716.0	29.73	755.1	54.0	12.2	86	nw.	8	3.6		2 ck	2 s	nw.	nw.	0.17	4.3	fair	A. Pritchard.
Benton, Fort, Montana	27.17	690.1	29.94	760.5	49	9.4	71	sw.	16	7.2		0	6 ks		sw.	0	0	fair	S. Wheaton.
Billings, Montana	26.60	675.6	29.74	755.4	45	7.2	56	w.	16	7.2		4 k	0	w.		0.02	0.5	fair	T. Gibson.
Bismarck, Dakota	27.92	709.2	29.68	753.9	53	11.7	93	w.	7	3.1			10 s		nw.	1.26	32.0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.18	766.6	30.21	767.3	60	15.6	100	sw.	14	6.3		0	9 s;fg		w.	0.01	0.3	cloudy	J. T. Elker.
Boise City, Idaho	27.46	697.5	30.24	768.1	48	8.9	80	nw.	8	3.6		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.99	761.7	30.14	765.5	73.0	22.8	59	w.	11	4.9		0	0			inap.	inap.	clear	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	76.0	24.4	85	s.	3	1.3			10 n		w.	0.63	16.0	thund'r st'm	E. C. Imlay.
Buffalo, New York	29.46	748.3	30.20	767.1	61.6	16.4	78	se.	2	0.9		2 cs	sk.			0	0	dense smoke	W. Flinn.
Buford, Fort, Dakota																			A. Schneider.
Burlington, Vermont	29.85	758.2	30.14	765.5	62.0	16.7	72	n.	8	3.6		0	3 s		w.	0.03	0.8	clear	D. N. Farnell.
Cairo, Illinois	29.72	754.9	30.11	764.8	72.8	22.7	83	sw.	12	5.4		4 ck	4 s	sw.	sw.	0.07	1.8	cloudy	W. H. Ray.
Cape Henry, Virginia	30.24	768.1	30.26	768.6	73.0	22.8	84	sw.	8	3.6		0	hz.			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.16	766.1	30.19	766.8	65.0	18.3	90	s.	11	4.9		0	hz.			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.51	749.5	30.19	766.8	49	9.4	93	nw.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	77	25.0	86	e.	9	4.0			10 s		e.	0.01	0.3	cloudy	G. W. Davis.
Charleston, S. Carolina	30.20	767.1	30.25	768.3	77.0	25.0	85	ne.	3	1.3		7 c	3 s		e.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.42	747.3	30.26	768.6	75.0	23.9	76	s.	3	1.3		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.41	747.0	30.22	767.6	67.0	19.4	90	ne.	2	0.9		7 cs	2 k;fg		w.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.06	611.1	29.80	756.9	40.3	4.6	76	ne.	15	6.7		4 c	0	nw.		0	0	fair	E. McGovern.
Chicago, Illinois	29.25	742.9	29.94	760.5	64.9	18.3	89	s.	8	3.6			10 s			0.01	0.3	cloudy	John Laurens.
Chincoteague, Virginia	30.22	767.6	30.24	768.1	67	19.4	100	s.	9	4.0		0	fg.			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.49	749.0	30.14	765.5	72.0	22.2	82	se.	3	1.3			10 k		sw.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.41	747.0	30.14	765.5	64.6	18.1	76	se.	8	3.6		3 k	0	sw.		0	0	clear	J. B. Newlin.
Coleman City, Texas	28.22	716.8	29.97	761.2	64	17.8	90	calm	0	0		8 cs	0			0	0	cloudy	T. J. Kenan.
Columbus, Ohio	29.28	743.7	30.12	765.0	70	21.1	76	s.	6	2.7		3 k	0	s.		0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.08	713.2	29.95	760.7	64.3	17.9	90	calm	0	0		10 cs	0			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.23	742.4	29.87	758.7	66	18.9	93	s.	6	2.7			10 n		sw.	0.44	11.2	light rain	R. R. Martin.
Davis, Fort, Texas	25.21	640.3	29.82	757.4	65	18.3	52	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.62	726.9	30.36	771.1	39.5	4.2	89	sw.	4	1.8		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.33	643.4	29.77	756.1	49	9.4	80	sw.	8	3.6			10 s		sw.	0.12	3.0	cloudy	F. Willson.
Delaware Breakwater, Del.	30.19	766.8	30.21	767.3	69	20.6	90	sw.	17	7.6		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.72	627.9	29.76	755.9	65.0	18.3	33	w.	8	3.6		4 cs	0	w.		0	0	fair	F. M. Neal.
Des Moines, Iowa	28.99	736.3	29.87	758.7	62	16.7	87	w.	4	1.8		2 cs	7 s	w.	w.	0.49	12.4	cloudy	F. W. Conrad.
Detroit, Michigan	29.39	746.5	30.08	764.0	63.0	17.2	78	e.	4	1.8		3 cs	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.36	694.9	29.87	758.7	60	15.6	93	w.	12	5.4		0	6 kg		w.	0	0	fair	D. J. Carr.
Dubuque, Iowa	29.16	740.7	29.85	758.2	65.2	18.4	85	s.	4	1.8			10 s			0.25	6.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.04	737.6	29.77	756.1	47	8.3	93	ne.	15	6.7			10 n		ne.	0.30	9.1	light rain	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.01	762.2	68.2	20.1	78	calm	0	0		1 cs	0	sw.		0	0	clear	F. Belford.
Eagle Rock, Idaho	25.39	644.9	29.98	761.5	37	2.8	75	s.	5	2.2		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	29.92	760.0	29.99	761.7	54.0	12.2	96	s.	4	1.8			fg.		s.	0.62	15.7	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.22	691.4	29.89	759.2	58	14.4	86	calm	0	0		5 c	0			0.14	3.6	fair	W. J. Cundall.
El Paso, Texas	26.22	666.0	29.80	756.9	71.0	21.7	43	se.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.46	748.3	30.18	766.6	66	18.9	68	se.	3	1.3		4 c	0	w.		0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.32	744.7	29.97	761.2	51.0	10.6	93	se.	6	2.7			10 n		se.	inap.	inap.	light rain	George Heathcote.
Galveston, Texas	30.00	762.0	30.04	763.0	79	26.1	82	s.	5	2.2		5 ck	2 ks		se.	0.02	0.5	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.32	744.7	29.97	761.2	60.0	15.6	93	e.	5	2.2			10 n			0.07	1.8	light rain	J. E. Mueller.
Grant, Fort, Arizona	25.21	640.3	29.75	755.6	66.9	19.4	27	nw.	6	2.7		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.27	768.8	30.29	769.4	73	22.8	90	se.	1	0.4		0	0			0.04	1.0	clear	R. M. Crawford.
Helena, Montana	25.91	658.1	30.03	762.7	43	6.1	76	sw.	12	5.4		3 ck	0	calm		0.20	5.1	clear	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.35	720.1	29.69	754.1	51.2	10.7	89	s.	19	8.5	.....	.....	10 n	.....	.....	0.12	3.0	light rain	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.06	763.5	71.0	21.7	84	s.	4	1.8	.....	2 k	7 n	s.	s.	inap.	inap.	light rain	C. F. R. Wappenhans.
Indianola, Texas	29.98	761.5	30.01	762.2	77.2	25.1	91	s.	7	3.1	.....	3 cs	2 ks	nw	.....	0.21	5.3	fair	I. A. Reed.
Jacksonville Florida	30.16	766.1	30.20	767.1	78.0	25.6	76	s.	3	1.3	.....	6ck;cs	0	w	.....	0.19	4.8	fair	J. W. Smith.
Keogh, Fort, Montana	27.42	696.5	29.85	758.2	49	9.4	58	w.	18	8.0	.....	4 k	4 ks	.....	.....	inap.	inap.	cloudy	W. B. Lamar.
Keokuk, Iowa	29.25	742.9	29.89	759.2	68.0	20.0	90	sw.	8	3.6	.....	.....	10 s	.....	w.	0.99	25.1	cloudy	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	78.0	25.6	90	ne.	8	3 6	.....	.....	10 n	.....	ne.	0.23	5.8	light rain	Lee M. Melbourne.
Kittyhawk, North Carolina	30.29	769.4	30.31	769.9	75	23.9	85	sw.	9	4.0	.....	1 k	hz.	sw.	.....	0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.22	742.2	30.22	767.6	67.3	19.6	90	calm	0	0	.....	0	8 s	.....	sw.	0.08	2.0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.02	737.1	29.78	756.4	65	18.3	84	s.	12	5.4	.....	.....	10 s	.....	s.	0.26	6.6	cloudy	S. C. Emery.
Leavenworth, Kansas	29.04	737.6	29.91	759.7	64	17.8	90	s.	5	2.2	.....	0	0	.....	.....	0.88	22.4	clear	A. W. Browne.
Lewiston, Idaho	29.54	750.3	30.36	771.1	44.2	6.8	76	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.76	755.9	30.07	763.8	68	20.0	90	calm	0	0	.....	.....	10 s	.....	.....	0.88	22.4	cloudy	W. U. Simons.
Los Angeles, California	29.46	748.3	29.85	758.2	62	16.7	87	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.55	750.6	30.10	764.5	72.5	22.5	83	s.	2	0.9	.....	0	2 s	.....	.....	0.35	8.9	clear	L. M Dey.
Lynchburg, Virginia	29.55	750.6	30.22	767.6	72.5	22.5	76	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.43	747.5	30.07	763.8	49.0	9.4	89	se.	13	5.8	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.27	768.8	30.28	769.1	74.0	23.3	90	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.51	647.9	29.84	757.9	42	5.6	39	nw.	44	19.7	.....	6 k	0	nw.	.....	0	0	fair	F. Burke.
Marquette, Michigan	29.24	742.7	29.96	761.0	51	10.6	86	se.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.70	755.9	30.09	764.3	70	21.1	100	se.	4	1.8	.....	.....	10 s	.....	se.	0.21	5.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.18	741.2	29.92	760.0	51	10.6	86	e.	4	1.8	.....	.....	10 n	.....	e.	0.06	1.5	light rain	W. Line.
Missoula, Fort, Montana	26.96	684.8	30.22	767.6	50	10.0	66	n.	6	2.7	.....	0	5 s	.....	n.	0.03	0.8	fair	J. H. Young.
Mobile, Alabama	30.10	764.5	30.14	765.5	75	23.9	90	e.	6	2.7	.....	3 c	2 ks	.....	e.	0	0	fair	C. A. Read.
Montgomery, Alabama	29.91	759.7	30.14	765.5	73	22.8	84	se.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.77	730.7	29.74	755.4	53	11.7	86	se.	16	7.2	.....	.....	10 s	.....	se.	0	0	cloudy	H. White.
Mt. Washington, N. H.	23.85	605 8	29.97	761.2	39.0	3.9	100	nw	60	26.8	.....	.....	fg.	.....	nw.	0.28	7.1	dense fog	S. W. Beall.
Nashville, Tennessee	29.50	750.8	30.12	765.0	70.5	21.4	87	e.	4	1.8	.....	7 cs	0	sw.	.....	0.14	3.6	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.07	763.8	30.18	766.6	71	21.7	76	nw.	5	2.2	.....	2 ck	0	w.	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.15	765.8	30.20	767.1	67	19.4	84	sw.	2	0.9	.....	1 c	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.08	764 0	75.0	23.9	88	se.	3	1.3	.....	0	0	.....	.....	0.40	10.2	clear	M. Herman.
New York, New York	30.04	763.0	30.21	767.3	68	20.0	81	sw.	5	2.2	.....	0	fg.	.....	.....	inap.	inap.	clear	G. E. Franklin.
Norfolk, Virginia	30.24	768.1	30.27	768.8	76	24.4	82	sw.	8	3.6	.....	0	3 s	.....	sw.	0	0	clear	Wm. Davis.
North Platte, Nebraska	26.97	685.0	29.77	756.1	57.6	14.2	84	w.	4	1.8	.....	0	2 s	.....	.....	0.30	7.6	clear	E. F. Brady.
Olympia, Washington T'y	30.35	770.9	30.39	771.9	48.0	8.9	86	sw.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.71	729.2	29.85	758.2	61.2	16.2	86	calm	0	0	.....	0	0	.....	.....	0.07	1.8	clear	A. Pollak.
Ooglaamie, Alaska	30.11	764.8	30.13	765.3	23.5	— 4.7	100	sse.	8	3.6	.....	.....	10s;fg	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.88	758.9	30.20	767.1	54.0	12.2	83	w.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	J. G. Linsley.
Palestine, Texas	29.55	750.6	30.09	764.3	67.0	19.4	93	e.	3	1.3	.....	7ck;cs	0	w.	.....	0	0	fair	J. W. Byram.
Pensacola, Florida	30.12	765.0	30.15	765.8	77.0	25.0	86	e.	9	4.0	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	M. McGauran.
Philadelphia, Pa	30.12	765.0	30.22	767.6	72	22.2	97	sw.	3	1.3	.....	0	7 ks	.....	sw.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.90	454.7	29.72	754.9	24	— 4.4	73	nw.	43	19.2	.....	7 cs	0	.....	.....	0	0	fair	H. Hall.
Pioche, Nevada	24.16	613.7	29.96	761.0	59.0	15.0	30	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.38	740.2	30.17	766.3	65.0	18.3	87	calm	0	0	.....	4 ck	0	.....	.....	0	0	fair	W. A. Reid.
Poplar River, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. D. Maxwell.
Port Huron, Michigan	29.40	746.7	30.08	764.0	60.0	15.6	81	e.	2	0.9	.....	2 k	4 s	s.	.....	0	0	fair	M. H. Perry
Portland, Maine	30.00	762.0	30.05	763.3	68.0	20.0	66	sw.	10	4.5	.....	0	hz.	.....	.....	0.08	2.0	clear	W. W. Eichelberger.
Portland, Oregon	30.35	770.9	30.42	772.7	48.0	8.9	86	n	3	1.3	.....	.....	10 s	.....	n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	75	23.9	71	w.	3	1.3	.....	3 ck	0	.....	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.80	629.9	29.82	757.4	50.5	10.3	43	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	30.12	765.0	30.15	765 8	64.5	18.1	90	w.	6	2.7	.....	0	fg.	.....	.....	0.14	3.6	clear	C. N. Kitchel.
Punta Rassa, Florida	30.12	765.0	30.12	765.0	75	23.9	85	e.	6	2.7	.....	10 cs	0	e.	.....	0.41	10.4	cloudy	W. J. Evans.
Red Bluff, California	29.78	750.4	30.14	765.5	71	21.7	33	n.	18	8.0	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.55	750.6	30.20	767.1	58	14.4	93	nw.	3	1.3	.....	3 k	4 k	w.	w.	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.86	758 4	30.41	772 4	44.6	7.0	83	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.90	759.4	29.97	761.2	74.0	23.3	47	nw.	20	8.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.40	746.7	29.99	761.7	69.7	20.9	98	s.	14	6.3	.....	3c;ck	1 k	.....	s.	0.11	2.8	fair	J. H. Weber.
St. Michael, Fort, Alaska	30.13	765.3	30.10	766.1	42	5.6	82	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
St. Paul, Minnesota	28.90	734.0	29.74	755.4	59.5	15.3	87	calm	0	0	.....	.....	10 s	.....	.....	1.12	28.4	cloudy	P. F Lyons.
St. Vincent, Minnesota	28.84	732.5	29.09	754.1	54	12.2	93	s	8	3.6	.....	4 cs	0	.....	.....	0	0	fair	C. B Dilley
Salt Lake City, Utah	25.76	654.3	29.98	761.5	58	14.4	40	nw.	2	0.9	.....	2 c	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.32	744.7	30.00	762.0	72	22.2	84	e.	2	0.9	.....	2 cs	0	.....	.....	inap.	inap.	clear	J. H. Davis.
San Diego, California	29.74	755.4	29.81	757.2	63.2	17.3	93	s.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	30.17	766.3	30.20	767.1	70.0	21.1	70	sw.	13	5.8	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
Sanford, Florida	30.13	765.3	.....	.....	80	20.7	79	se.	0	2.7	.....	7 c	0	.....	.....	0.01	0.3	fair	J. B. Marbury.
San Francisco, California	29.91	759.7	29.98	761.5	70.5	21.4	55	n.	0	0	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.28	591.3	29.79	756.7	51	10.6	34	calm	8	3.6	.....	1 c	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.16	766.1	30.25	768.3	76	24.4	85	se.	2	0.9	.....	0 ck	1 k	se.	se.	0.32	8.1	fair	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	29.98	761.5	42	5.6	67	sw.	17	7 6	.....	0	0	.....	.....	0	0	clear	A. L. Mathews
Shreveport, Louisiana	29.82	757.4	30.05	763.3	71.0	21.7	90	s.	1	0.4	.....	.....	10 s	.....	s.	0.05	1.3	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.77	730.7	29.97	761.2	62.5	16.9	92	w.	1	0.4	.....	0 c	0	.....	.....	0.33	8.4	fair	W. M. Mattingly.
Sitka, Alaska	30.10	764.5	30.10	766.1	44.6	7.0	80	e.	4	1.8	.....	0	5 ks	.....	e.	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.58	751 3	30.04	763.0	70.5	21.4	84	calm	0	0	.....	3 cs	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville North Carolina	30.23	767 8	30.27	768.8	77	25.0	82	se.	3	1.3	.....	1 ck	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.24	717.3	30.28	769.1	46	7.8	76	sw.	7	3.1	.....	3 c	2 s	w.	.....	0	0	fair	John F. Hemenway.
Springfield, Illinois	29.29	744.0	29.96	761.0	68.5	20.3	92	s	8	3.6	.....	.....	10 s	.....	sw.	0.29	7.4	cloudy	T. B. Jennings.
Starkville, Miss	29.68	753.9	30.15	765.8	74	23.3	82	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	C. Dill.
Stockton, Fort, Texas	26.97	685.0	29.89	759.2	67	19.4	78	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.15	689 6	29.78	756.4	57	13.9	53	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.39	746.5	30.07	763.8	68.5	20.3	71	s.	5	2.2	.....	3 cs	6 ks	sw.	sw.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.43	696.7	29.73	755.1	65	18.3	47	se.	2	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whitesides.
Unalaska, Alaska	30.09	764.3	30.11	764.8	40	4.4	89	nw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	60	15.6	46	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.86	758 4	30.12	765.0	71.0	21.7	90	se.	5	2.2	.....	2 c	0	.....	.....	0.39	9.9	clear	James Kenealy.
Visalia, California	29.54	750.3	29.91	759.7	64.3	17.9	73	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.51	622.5	29.89	759.2	42.7	5.9	78	e.	5	2.2	.....	.....	9 k	.....	.....	0	0	cloudy	T. M. Ambler.
Washington, D. C.	30.11	764.8	30.22	767.6	74.6	23.7	77	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.97	659.6	29.74	755.4	54	12.2	77	w.	4	1.8	.....	6 c	0	e.	.....	0	0	fair	F. H. Brandenburg.
Williamsport, Pa	29.61	752.1	30.21	767.3	67.5	19.7	78	w.	2	0.9	.....	0	sk.	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.22	767.6	30.27	768.8	75	23.9	85	calm	0	0	.....	hz	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.84	656.3	30.10	764.5	48.5	9.2	62	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.41	721.6	29.69	754.1	54	12.2	80	s.	11	4.9	.....	.....	10 ks	.....	.....	0.58	14.7	cloudy	J. H. Atfield.
Yuma, Arizona	29.54	750.3	29.68	753.9	71.3	21.8	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.05	763.3	82	27.8	71	ne.	1	0.4	.....	10 cs	0	.....	.....	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	se.	.....	.....	2	4 c	5 k	e.	e.	0.270	6.9	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.95	760.7	77	25.0	89	calm	.....	.....	0	.....	10 ks	.....	s.	0.10	2.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	80	26.7	90	ne.	.....	.....	1	.....	10 ks	.....	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallon.
York Factory, B. A.	29.96	761.0	30.02	762.5	38.5	3.6	95	s.	10	4.5	.....	2 c	0	s.	.....	0.10	2.5	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 44° 06′, E. 15° 13′	29.83	757.7	76	24.4	82	sse.			1		1	sse.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.33	770.4	74.5	23.6	86	ese.			1		6							d. clouds.
H. M. S. Flamingo, N. 37° 10′, W. 63° 10′	30.38	771.6	75	23.9	86	wsw.			1		3	wsw.				1	sse.	d. clouds.
H. M. S. Gannet, N. 15° 40′, W. 21° 42′	30.08	764.0	73	22.8	85	n.			5		3					4	var.	misty.
H. M. S. Iris, Port Said, Egypt	29.86	758.5	74	23.3	90	nnw.			3–4		3							d. clouds.
H. M. S. Minotaur, Vigo Bay, Spain	29.94	760.5	62.5	16.9	88	sw.			4		10							raining.
H. M. S. Opal, St Vincent, Cape Verde Ids	30.14	765.5	73	22.8	76	ne.			4–6		3	ene.						squally.
H. M. S. Satellite, N. 44° 00′, W. 14° 16′	29.81	757.2	62	16.7	83	wsw.			4		8	wsw.				4	wsw.	d. clouds.
H. M. S. Superb, N. 41° 17′ E. 18° 00′*	30.02	762.5	71	21.7	90	se.			4		3	nnw.				3	se.	d. clouds
H. M. S. Tyne, N. 9° 40′ W. 48° 12′	30.00	762.0	81	27.2	91	e			6		5	calm				5	ene.	d. clouds.
H. M. S Thetis, N. 14° 55′, W. 23° 58′	30.16	766.1	76	24.4	86	n.			4		0					2	n.	misty.
H. M. S. Tenedos, St. Johns, N.F	30.16	766.1	50	10.0	79	ese.			1		9	e.						overcast.
H. S. M. S. Eugenie, N. 50° 09′, W. 2° 12′	29.76	756.0	63.9	17.7	85	e.			3		8							misty.
U. S. Navy Yard, Portsmouth, N. H*	30.03	762.7	68	20.0	65	nw.	16	7.2			0			0	0			clear.
U. S. S. Lancaster, Kronstadt, Russia	29.89	759.2	74	23.3	59	ne.			2		10		e.			sm'h		cloudy.
U. S. S. Nipsic, New York, N. Y *	30.14	765.5	68	20.0	90	sw.			2		0							clear.
U. S. S. Portsmouth, Newport, R.I	30.18	766.6	57	13.9	94	ssw.												foggy.
U. S. S. Powhatan, Port Royal, S. C	30.20	767.1	87	30.6	96	ene.			2		5					sm'h		fair.
U. S. S. Quinnebaug, N. 4° 33′, W. 8° 05′	30.05	763.3	81	27.2	87	ene.			1		2		ene.			sm'h		fair.
U. S. S. Saratoga, New York, N. Y	30.24	768.1	71	21.7	85	sw.			1–2		5?	sw.		0	0	sm'h		cloudy ?
U. S. S. Vandalia, New York, N. Y	30.24	768.1	68	20.0	95	wsw.			1		0							clear.
S. S. Inchkeith, N. 39° 33′, W. 36° 35′	30.09	764.3	65.8	18.8	81	nnw.			5		4							d. clouds
H. P. M. S. Rio Lima, Porto Praya, Cape Verd Islands			77.0	25.0	84	ne.			3		2					3	se.	d. clouds.
S. S. Illinois, Philadelphia, Pa	30.26	768.6	71	21.7		wsw.			2		9		w.					cloudy.
S. S. Lord Clive, N. 42° 25′, W. 54° 34′						sw.			4		0			0	0	sm'h		fine.
S. S. Lord Gough, N. 39° 50′. W. 61° 33′	30.21	767.3	76	24.4		sw.			3		10		sw.	0	0	sm'h		cloudy.
S. S. Ohio, N. 42° 03′, W. 43° 47′†	30.23	767.8	60	15.6		n.			4		9		n.	0	0	mod.	n.	cloudy.
S. S Pennsylvania, N. 43° 17′. W. 40° 48′ †	30.14	765.5	60	15.6		nnw.			5		4		nnw.	0	0	mod.	nw.	fine.
S. S. Grecian, N. 52° 16′, W. 23° 15′	29.74	755.4	56	13.3	94	n.			2		10			1 h'r	1 h'r	long	nw.	dense fog.
S. S. Polynesian, N. 55° 15′, W. 7° 00′	30.12	765.0	60	15.6		ene.			4		1		ese.	0	0	sm'h	e.	clear.
S. S. Prussian, N. 55° 28′, W. 9° 20′	29.87	758.7	61	16.1		ene.			4		1		ene.	0	0	mod.	e.	clear.
S. S. Manitoban, N. 55° 03′, W. 17° 50′	29.89	759.2	63	17.2	83	e.			4		8?		se.	0	0	mod.	se.	clear?
S. S. Sardinian, N 51° 31′, W. 38° 43′	30.15	765.8	47	8.3		n.			3		2		nw.	0	0	long	nne.	clear.
S. S. Jason, N. 50° 05′, W. 15° 58′ †	29.91	759.7	55.4	13.0		calm			0		8 n						ene.	foggy.
S. S. Alvo, Port au Prince, Hayti*	29.98	761.5	78	25.6		var.			2		5		calm	2 h'r	2 h'r			fine.
S. S. Anchoria, N. 55° 20′, W. 8° 54′†	30.02	762.5				e.			4		2		e.	0	0	sm'h		clear
S. S. Assyria, N. 46° 47′ W. 33° 25′	29.99	761.7	52	11.1		s.			2		5		ne.	0	0	sm'h		fine.
S. S. Devonia, N. 40° 38′, W. 68° 25′*†	30.26	768.6	53	11.7		ssw.			2		0					slt't	sw.	hazy.
S. S. Furnesia, Liverpool, Eng †	29.84	757.9	61	16.1	61	ene.			3		0			0	0	sm'h		clear.
S. S. Elysia, N. 43° 45′ W. 46° 00′	30.27	768.8	45.8	7.7		nne.			4		10		ne.	0	0	slt't	n.	cloudy.
S. S. Carroll, Port Hawkesbury, C. B*†	30.05	763.3	65	18.3	94	sw.			2		8		sw.	rain	rain			cloudy.
S. S. Jerome, N. 21° 58′, W. 60° 33′			77	25.0	100	e.			4		10		nw.	0	0	mod.	e.	overcast.
S. S. Llandaff City, N. 45° 20′ W. 37° 00′			60	15.6		n.			6		6			0	0	mod.	nw.	fair.
S. S. Marathon, Palermo, Sicily	29.99	761.7	70	21.1		s.			3		7		s.	0	0	sm'h	s.	cloudy.
S. S. Scythia, N. 50° 31′, W. 24° 19′	29.70	754.4	56	13.3	94	n.			4		10			0	0	mod.	nnw.	foggy.
S. S. Rhiwindda, N. 51° 23′ W. 19° 43′*†	29.80	756.9	54	12.2		s.			3		7		s.	0	0	cross		fine.
S. S. France, N. 44° 52′, W. 35° 01′†	29.91	759.7	55.4	13.0		nne.			2		1		w.	0	0	sm'h	nw.	clear.
S. S. Ville de Marseilles, N 41° 12′, W. 19° 25′ *	29.96	761.0	59	15.0		wnw.			5		4		nw.	0	0	long	nw.	fair.
S. S. Arizona, N. 50° 27′, W. 18° 10′	29.71	754.6	52	11.1		ese.			2		10		ese.	0	0	sm'h		foggy.
S. S. Wyoming, N. 40° 38′, W. 67° 03′	30.23	767.8	52	11.1		ssw.			3		fg			0	0	sm'h		foggy.
S. S. Bohemia, New York, N. Y †	30.09	764.3				w.			2		3		w.	0	0			fair.
S. S. Gellert, N. 47° 46′, W. 30° 00′	30.02	762.5	56	13.3	77	nnw.			5		7		n.	4 h'r	4 h'r	mod.	n.	cloudy.
S. S. Rugia, Hamburg, Germany	29.81	757.2	77	25.0		nnw.			3		1		nw.	0	0			clear.
S. S. Silesia, N. 36° 21′, W. 43° 05′	30.38	771.6	67	19.4		n.			4		3		n.	0	0	3	n.	fair.
S. S. Wieland, N. 43° 56′. W. 43° 59′	30.27	768.8				nw			3		8		nw.	0	0	mod.	nw.	cloudy.
S. S. Mentmore, N. 43° 08′, W. 57° 31′*†	30.38	771.6				wsw.			4		2		w.	0	0	sm'h	w.	clear.
S. S. Bulgarian, N. 51° 09′, W. 21° 34′ *	29.76	755.9				ne.			1		10		n.	0	0			light fog.
S. S. Hevelius, N. 2° 30′, W. 30° 00′†	30.12	765.0	81	27.2		e.			5		9		e.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Ptolemy, N. 17° —′, W. 25° —′	30.16	766.1	76.4	24.7	91				6		4 k			0	0	3	ne.	fair.
S. S. Colorado, N. 37° 46′, W. 74° 01′†	30.30	769.6	67	19.4		sw.			2		2		sw.	0	0	small	sw.	clear.
S. S. Rio Grande, N. 27° 46′, W. 79° 40′*†	30.14	765.5	83	28.3		ese.			3		8		e.	1 h'r	1 h'r	mod.	e.	cloudy.
S. S. Chalmette, Algiers, La †	30.20	767.1	76	24.4		n.			3		2		ne.	1 h'r	1 h'r			clear.
S. S. New York, N. 26° 00′, W. 85° 00′ *†	30.02	762.5	79	26.1		se.			5		8		se.			long	se.	cloudy.
S. S. Hermod. N. 10° 49′, W. 49° 10′†	29.98	761.5	81	27.2		e.			5		6		e.	0	0	r'gh	e.	fair.
S. S. Archimede, Genoa, Italy†	29.74	757.9	74	23.3	72	ese.			3		5		ese.	0	0	sm'h		fair.
S. S. City of Merida, N. 19° 11′, W. 96° 08′†	30.01	762.2	77	25.0		nw.			1		5		nw.	1 h'r	1 h'r	mod.	nw.	fair.
S. S. City of Washington, N. 21° 20′, W. 89° 38′			79	26.1		se.			2		5		se.	3 h'r	3 h'r	sm'h		fair.
S. S. Denmark, N. 47° 04′, W 29° 44′†	30.00	762.0	58	14.4		w.			5		5		w.	6 h'r	6 h'r	slt't	w.	fair
S. S. England, N. 44° 13′, W. 40° 01′	30.02	762.5	56	13.3		nnw.			5		5		nnw.	sq 'lls	sq 'lls	high	nw.	fair.
S. S. Erin, N. 40° 35′ W. 59° 48′	30.39	771.9	71	21.7		ssw.			6		5		sw	3 h'r	3 h'r	sm'h		fair.
S. S. Helvetia, Liverpool, Eng	29.96	761.0	72	22.2	80	se.			4		0			0	0			clear
The Queen, N. 40° 32′, W. 57° 14′	30.28	769.1	70	21.1	?	s.			2		2		sw.	0	0	sm'h		clear.
S. S. Braunschweig, N. 46° 52′, W. 32° 26′	30.00	762.0	65.0	18.3	63	wnw.			2		5		nw.	0	0	mod.	nw.	fair.
S. S. Elbe, N. 43° 52′, W. 43° 32′	30.24	768.2	53	11.7	80	nnw.			3–4		10		nnw.	0	0	mod.	nw.	covered.
S. S. Hohenzollern, N. 49° 19′, W. 8° 58′	29.84	757.9	55	12.8		nw.			2		10		nw.	4 h'r	4 h'r	sm'h		raining.
S. S. Neckar, off Bishop Rock, Eng	29.79	756.7	57.0	13.9	87	e.			3		19		e.	5 h'r	5 h'r	sm'h	e.	cloudy.
S. S. Ohio, N. 38° 00′, W. 62° 10′	30.41	772.4				w.			1		1		w.	2 h'r	2 h'r	sm'h	w.	clear.
S. S. Salier, N. 48° 06′, W. 49° 15′*	30.24	768.1	36	2.2	90	se.			1		4		w.	2 h'r	2 h'r	high	nw.	fair
S. S. Strassburg, N. 40° 39′, W. 53° 24′	30.37	771.4	70.5	21.4	70	wnw.			2		9		nnw.	0	0	2	var.	cloudy.
S. S. Werra, N. 48° 30′, W. 25° 02′	29.74	755.3	53	11.7		n.			5		6		n	0	0	r'gh	n.	squally.
S. S. Weser, N. 49° 40′, W. 8° 30′	29.83	757.7				n.			3		10		e.	6 h'r	6 h'r	sm'h	e.	raining.
S. S. City of Augusta, New York, N. Y †	30.13	765.3				nne.			4		6		nne.	0	0			foggy.
S. S. Colon, New York, N. Y †	30.21	767.3	68	20.0		sw.			5		10			0	0			overcast.
S. S. Muriel, St. Kitts, W. I	30.16	766.1	83	28.3		e.			4		10		e.	light	light	sm'h		overcast.
S. S. Orinoco, Hamilton, Bermuda, Atlantic†	30.42	772.7	79	26.1		se.			2		3			0	0			clear.
S. S. Rhynland, N. 49° 30′, W. 10° 00′	29.84	757.9	54	12.2	87	var.			3		8			8 h'r	8 h'r			dull.
S. S. Pennland, N. 40° 34′, W. 58° 03′	30.35	770.9	78	25.6	82	se.			1		8		sw	0	0	sm'h	s.	cloudy.
S. S. Switzerland, N 41° 17′, W. 51° 03′†.	30.38	771.6				w.			1		5		w.	0	0	sm'h		fair.
S. S. Waesland, N. 49° 19′, W. 17° 50′	29.76	755.9	60	15.6		se.			3		10		sse	0	0	sm'h	se.	hazy.
S. S. P. Caland, Jersey City, N. J	30.18	766.6	72.1	22.3	86	sw.			1		5		sw.					fair.
S. S. Leerdam, N. 50° 30′, W. 1° 30′	29.74	755.4	64	17.8	89	ene.			6		2		e.	0	0			hazy.
S. S. Rotterdam, N. 43° 28′, W. 42° 02′	30.19	766.8	59	15.0	76	n.			3		7		n.	0	0	4	n.	fair
S. S. W. A Scholten, Rotterdam, Holland	29.80	756.9	68.0	20.0	56	e.			5		3		ene.	0	0			clear.
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	82	27.8	91	calm			0		5		calm	2½h'r	2½h'r	r'gh	nne.	hazy.
S. S. State of Georgia, N. 43° 30′, W. 46° 03′†	30.35	770.9	53	11.7		nnw.			3		10		ne.	light	light	sm'h		overcast.
S. S. State of Indiana, N. 54° 04′, W. 24° 35′ *†	29.70	754.4	52	11.1		ne.			4		10		ne.	6 h'r	6 h'r	sm'h		drizzling.
S. S. State of Nevada, N. 41° 39′, W. 58° 34′†	30.36	771.1	69	20.6		sw.			4		5		wsw.	0	0	sm'h		fair.
S. S. Thingvalla, N. 56° 13′, W. 21° 51′ †	29.91	759.7	54.5	12.5		wnw.			3		6		wnw.	4 h'r	4 h'r	mod.	wnw.	fair.
S. S. Romano, Start Point, Eng †	29.78	756.4	60	15.6		ese.			5		4		s.	0	0	mod.	ese.	light haze.
S. S. Oregon, N. 51° 47′ W. 7° 40′	29.77	756.1	56	13.3		ene.			6		9		ene.			light		cloudy.
S. S. Olbers. N. 12° 23′, W. 25° 33′ †	30.14	765.5	82	27.8	75	ene.			4		6		ese.	0	0	slt't	sw.	fair.
S. S. Daniel Steinmann, Wolf Rock, Eng†	29.75	755.6	63	17.2		sw.			2		9		sw.	0	0	light	se.	hazy.
S. S. Norman, N. 42° 25′, W. 70° 54′	30.00	762.0				w.			1		0			0	0			clear.
S. S. Saxon, Philadelphia, Pa †.	30.24	768.1				w.			3		5		sw.	0	0			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Adriatic, N. 45° 56′, W. 38° 48′*†	30.20	767.1	57	13.9		n.			4		8		n.	0	0	sli't	nw.	cloudy.
S. S. Baltic, N. 46° 28′, W. 38° 55′*	30.10	764.5	56	13.3	81	n.			3		8		nnw.	4 h'r	4 h'r	sli't	nw.	cloudy.
S. S. Britannic, N. 49° 51′ W. 28° 23′†	29.99	761.7	50	10.0		nne.			5		10		nw.	0	0	mod.	nne.	cloudy.
S. S. Iowa, N 42° 37′, W. 53° 13′†	30.28	769.1	59	15.0		ssw.			2		6		ssw.	0	0	sm'h		fair.
S. S. Antonio Lopez, Cadiz, Spain	30.15	765.8	67.5	19.7	74	w.			4		3			0	0			clear.
Schr. Abbie H. Gheen, Jacksonville, Fla†	30.31	769.9	77	25.0		ene.			1									clear.
Bk. Aquidneck, N. 37° 05′, W. 72° 53′*†	30.30	769.6				se.			1		0			0	0	light	se.	clear.
Bg. Alcira, N. 23° 42′, W. 74° 30′	30.19	766.8	82	27.8		e.			6		4		ene.	0	0	mod.	ese.	fair.
Schr. Anna A. Holton, N. 39° 52′, W. 73° 23′*†	30.20	767.1	67	19.4		sw.			4				s.	0	0	r'gh	s.	hazy.
Schr. Authur Burton, N. 31° 10′, W. 81° 00′†	30.27	768.8				e.			1		2		e.	0	0	mod.	e.	fine.
Bk. Aureola, N. 37° 15′, W. 48° 48†	30.41	772.4	72	22.2		nnw.			1		3		n.	0	0	mod.	nne.	clear.
Bk. Arda, Wood Point, N. B†	30.05	763.3				calm			0		0			0	0			clear.
Bk. Alba, N. 44° 52′, W. 49° 38′*†	30.34	770.5	40.1	4.5		e.			1					0	0			
Bgt. Achsah, N. 39° 29′, W. 71° 12′†	30.20	767.1	78	25.6		sw.			2		0			0	0	mod.	sw.	clear.
S. S. Burswell, Mouth of Thames, Eng*†	29.90	759.4	60	15.6		ene.			6		0			1 h'r	1 h'r	str'g	ene.	fine.
Bg. Belle of the Bay, Galveston, Texas†	30.06	763.5				ese.			2		6		ese.	1 h'r	1 h'r			fair.
Sch. C. R. Flint, N. 24° 31′, W. 83° 00′†	30.09	764.3	80	26.7		ene.			2		8		se.	sh'rs	sh'rs	sm'h		cloudy.
Bk. Childwall, N. 44° 29′, W. 23° 11′			59	15.0		nw.			6		8		nw.	0	0	mod.	nw.	squally.
Bk. Cato, Bodöe, Norway *†.	30.03	762.7				w.			4									
S Criterion, N. 50° 00′, W. 33° 35′*†	30.00	762.0				n.			4		8		n.	0	0	long	nnw.	showery.
Schr. Clotilde, Tampico Bar, Mexico *†	29.93	760.2	82	27.8		se.			1		0			0	0	r'gh	e.	clear.
S. David Stewart, N. 16° 45′, W. 34° 04′†	30.07	763.8				ene.			5		4		ene.	4 h'r	4 h'r	mod.	ene.	
S. S. D. J. Foley, N. 18° 58′, W. 75° 26′*†	30.05	763.3	82	27.8	83	ne.			2		4		e.	0	0	long	ene.	fair.
Bkt. David A. Preston, Navassa, W. I.						e.			4		2		se.	4 h'r	4 h'r	long	se.	
S. E. J. Spicer, N. 50° 26′, W. 19° 16′	29.72	754.9	58	14.4	100	ssw.			3		10		se.	0	0	mod.	se.	foggy.
Bk. E. D. Bigelow, N. 50° 51′, W. 9° 15′ *†	29.78	756.4	64	17.8		ene.			2		9		se.	1 h'r	1 h'r	sm'h		raining.
U. S. Fish Com. S. S. Fish Hawk, Washington, D. C †	30.25	768.3	77	25.0	86	sw.			2		0			0	0			clear.
Schr. F. E Waters, Chesapeake Bay *†	30.35	770.9				sse.			2				sw.	0	0			fair.
Bk. George Davis, N. 54° 56′, W. 9° 00′						ene.			2					0	0		ne.	hazy.
Bgt. George, N. 36° 30′, W. 72° 20′ *†	30.29	769.4	73	22.8		sw.			1		2			0	0	mod.	s.	fair.
Bk. Galeon, N. 21° 18′, W. 99° 10′†	29.98	761.5	78	25.6		e.			3		0			1 h'r	1 h'r	sm'h	ne.	blue sky.
Bk. Heinrich & Tonio, N. 48° 47′. W. 11° 14′†	29.78	756.4	73	22.8		ssw.			1		5		w.	2 h'r	2 h'r	sm'h		fair.
S Hedwig, N. 37° 10′, E. 2° 20′	29.98	761.5	67.6	19.8	86	w.			6		1		w.	0	0	5	w.	
Bk. Hattie G. McFarland, Port Royal, S. C †	30.22	767.6	76	24.4		sse.			4		fg.			0	0			foggy.
Schr. Isabel Alberto, New York, N. Y †	30.19	766.8				w			1		0			0	0			clear.
Bk. Johanne, N. 40° 42′, W. 10° 55′*†	29.95	760.7	63	17.2		w.			3		8		sw.	2 h'r	2 h'r	mod.	w.	fine.
Schr. John L. Thomas, N. 18° 30′, W. 80° 15′*†	30.08	764.0				e.			3		9		s.	0	0	mod.	ese.	threatening.
Bg. John Wesley, N. 33° 38′, W. 54° 16′*†	30.37	771.4	74	23.3		e.			1		0			0	0	cross	ne;s.	clear.
Schr. Jennie N. Huddell, N. 32° 40′, W. 79° 00′ †	30.24	768.1	82	27.8	83	ese.			1		2		se.	0	0	long	se.	fair.
Bg. L. & W. Armstrong, N. 39° 17′, W. 71° 40′*†	30.32	770.1				ssw.			3		0			0	0	sm'h	se.	clear.
Light House Tender Laurel, Pensacola Bay, Fla†	30.13	765.3	78	25.6		ene.			2-3		10		se.	4 h'r	4 h'r			cloudy.
Bg. Lilian, N. 28° 37′, W. 70° 36′†	30.30	769.6	82	27.8		ese.			3		1		se.	0	0	mod.	se.	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.06	763.8	80	26.7		s.			1		10		s.	2 h'r	2 h'r			cloudy.
Bk. Milo, N. 44° 41′, W. 29° 00′†	29.95	760.7				calm			0				nnw.			short	n.	clear.
S. S. Madrid, Pt. Forman, Spain†	29.97	761.2	72	22.2	80	ssw.			6		4		sw.	0	0	mod	sw.	fair.
Schr. Minnie A. Bonsall, Hoboken, N. J†	30.21	767.3	78	25.6		s.			1				se.	0	0			fair.
Bgt. Myrtle, Barbadoes, W. I.*†	30.15	765.8				ese.			5		5		e.	0	0			fair.
Bk. Matthias, N. 49° 56′, W. 10° 19′			62	16.7		calm			0		6		nw.	½ h'r	½ h'r	mod.	sse.	fair.
Schr. Maggie Abbott, N. 27° 08′, W. 72° 09′†	30.25	768.3				se			6		4		sse.	0	0	mod.	se.	clear.
Bk. National Eagle, N. 37° 58′, W. 46° 31′						nnw.			3		1		nnw.	0	0	sm'h		fair.
Bg. O. C. Clary, N. 36° 40′, W. 68° 24′*†	30.28	769.1				s.			2		0					sm'h	s.	clear.
Bk. Ottawa, N. 48° 50′, W. 9° 04′	29.80	756.9	59	15.0		w.			3		10		w.	3 h'r	3 h'r	short	e.	raining.
S. Paramitta, N. 8° 00′, W. 33° 04′ †	29.99	761.7	80	26.7		ne.			4		3		ne.	10 h'r	10 h'r	long	n.	clear.
S. S. Raleigh, Baracoa, Cuba, W. I†	30.12	765.0	80	26.7		calm			0					0	0			clear.
Bg. Rising Sun, N. 19° 30′, W. 61° 00′†	30.15	765.8	75	23.9		e.			6		4		e.	0	0	short	e.	fair.
Bk. Rosino, N. 40° 10′, W. 34° 30′			64	17.8	79	wnw.			5		10		n.	2 h'r	2 h'r	h'vy	nw.	stormy.
Bk. Sunbeam, N. 38° 56′, W. 55° 06′†	30.42	772.3	68	20.0		wsw.			3		0			0	0	sm'h		clear.
Bk Southern Belle, N. 27° 27′, W. 37° 05′†	30.37	771.4	74	23.3	89	ene.			3		0			0	0	mod.	ne.	clear.
S. Sovereign of the Seas, N. 39° 42′, W. 67° 31′			67	19.4		sw.			3		1			0	0	sm'h	s.	hazy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†	30.08	764.0	79	26.1		se.			3		9		e.	4 h'r	4 h'r			cloudy
Bgt. Sunlight, N. 40° 15′, W. 73° 55′						s.			2		10		wsw.	0	0	mod.	sse.	dense fog.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†	30.19	766.8	53	11.7	97	nw.			1		2	n.				1	nw.	blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony, Africa	30.08	764.0	64	17.8		nw.			5		4							squally.
H. M. S. Sylvia, Buenos Ayres, La Plata	30.15	765.8	57.7	14.3	87	nw.			2		4	calm						d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.10	760.1	51	10.6	86	nw.	5	2.2			0			0	0	sm'h		clear.
U. S. S. Galena, Montevideo, Uruguay*	30.10	764.5	50	10.0	86	nnw.			1		0					sm'h		clear.
Bk. Horace Scudder, S. 4° 50′, W. 30° 58′ *†	30.11	764.8	82	27.8		se.			4		6		se.	0	0	long	se.	fine.
S. Wm. McGilvery, S. 20° 50′, W. 38° 40′ *†	30.10	764.5	76	24.4	91	nnw.			4		9		nnw.	0	0	sm'h		
May Hulse, S. 21° 44′, W. 26° 00′	30.15	765.8	76	24.4	79	nne.			1		1							blue sky.
Bk. Achille F, S. 5° 30′, W. 28° —′†	30.05	763.3	83	28.3	83	se.			3		5		se.	0	0	mod.	sse.	fair.
Bk. Alpheus Marshall, S. 22° 05′, E. 4° 31′ *†	30.08	764.0				calm			0		3			0	0	sm'h	sw.	clear.
Bk. Ceylon, S. 32° 56′, E. 13° 37′*†	30.08	764.0	68	20.0	70	wnw.			6		8		w.	1 h'r	1 h'r	h'vy	nw.	cloudy.
S. Dynomene, S. 28° 09′, E. 13° 28′	30.17	766.3	65	18.3	78	wsw.			2		1			0	0	mod.	sw.	clear.
Bk. Adelaide, S. 6° 12′, W. 29° 58′*†	30.10	764.5	85	29.4		se.			6		1		se.	0	0	mod.	se.	clear.
H. P. M. S. Duque de Terceira, Mossamedes, Beng'la	30.09	764.2	64.0	17.8	72	nw.			1		2			0	0	1	sw.	blue sky.
District No. 3—North Pacific.																		
H. M. S. Audacious, Centaur Crossing, China	29.77	756.1	80	26.7	70	e.			2		1	ene.						misty.
H. M. S. Champion, Labuan Id., Borneo	29.75	755.6	84	28.9	100	w.			2		3					1	w.	d. clouds.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 11′	29.86	758.4	59	15.0	91	nw.			1		0							blue sky.
H. M. S. Magpie, N. 4° 59′, E. 115° 06′	29.82	757.4	83.5	28.6	79	wsw.			2		2							d. clouds.
H. M. S. Sheldrake, N. 8° 15′, E 116° 49′			81	27.2		ssw.			1		5					4	ssw.	d. clouds.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.84	757.9	71	21.7	80	s.			1		2	w.						d. clouds.
H.P. M. S. Tamega, Macao, China	29.82	757.4	82.4	28.0	63	e.			5		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.04	763.0	60	15.6	88	e.			3		10		ene.	sli't	sli't			gloomy.
U. S. S. Adams, N. 58° 38′, W. 137° 55′	30.11	764.8	45	7.2	92	nnw.			1		8					sm'h		cloudy.
U. S. S. Essex, N. 4° 26′, W. 134° 42′	29.88	758.9	79	26.1	86	sse.			3		10					sm'h		overcast.
U. S. S. Hartford, Honolulu, Sandwich Ids*	30.02	762.5	75	23.9	81	ne.			0-1		2			0	0			clear.
U. S. S. Monocacy, Salee river, Corea	29.83	757.7	66	18.9	84	n.			1		8		ne.					misty.
U. S. S. Palos, Hong Kong, China	29.71	754.6	79	26.1	100	ene.			4		2		calm					clear.
U. S. S. Richmond, Hong Kong, China*	29.70	754.4	80	26.7	62	ene.			4		0			0	0			clear.
S. S. Arabic, N. 45° 08′, E. 166° 17′			40	4.4	100	nne.			6		10		ne.	0	0	mod.	ne.	hazy.
S. S. Oceanic, N. 28° 38′, E. 128° 33′	29.91	759.7	75	23.9	68	ne.			4		0					light	var.	clear.
S. S. Oregon, Portland, Oregon †	30.38	771.6	56	13.3	94	calm			0		0							clear.
S. S. Ancon, San Francisco, Cal †	30.02	762.5	66	18.9	68	nnw.			3		0							clear.
S. S. City of Chester, San Francisco, Cal †	29.85	758.2	71	21.7	85	wnw.			2		0							clear.
S. S. Dakota, Victoria, B. A †	30.41	772.4	52	11.1	79	calm			0		5		w.			sm'h		fair.
S. S. Queen of the Pacific, Columbia river, Oregon †	30.44	773.2				calm			0		10			0	0			cloudy.
S. S. City of Rio de Janeiro, N. 35° 00′, E. 139° 30′ †	29.97	761.2	62	16.7	77	nne.			6		10		nne.	0.3	8.	mod.	ne.	squally.
S. S. Colima, N. 25° 12′, W 112° 59 †	29.89	759.2	61	16.1	82	se.			2		10		nw.	0	0	mod.	nw.	overcast.
S. S. Granad, N. 9° 30′, W. 85° 19′	29.91	759.7	82	27.8	83	nw.			1		1		se.	2 h'r	2 h'r	sm'h	sw.	clear.
S. S. San Blas, Panama, Panama			80	26.7		nw.			1		8		nw.	2 h'r	2 h'r			cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Zealandia, N. 23° 18′ W. 152° 47′	.....	.....	76	24.4	91	ene.	.....	.....	4	.....	5	.....	ne.	.....	.....	mod.	ne.	fair.
S. S. Benledi, Kobe, Japan*	29.82	757.4	71	21.7	71	wsw.	.....	.....	2–3	.....	3	.....	sw.	0	0	sm'h	.....	clear.
S. S. Radnorshire, Yokohama, Japan *†	29.85	758.2	.....	.....	.....	ne.	.....	.....	6	.....	10	.....	ne.	0	0	light	ne.	cloudy.
S. Sacramento, N. 13° 40′, E. 119° 45′ *†	29.88	758.9	83	28.3	87	s.	.....	.....	3	.....	8	.....	sw.	0	0	sm'h	.....	cloudy.
S. St. David, N. 2° 50′ E. 105° 03′	.....	.....	84.3	29.1	87	sse.	.....	.....	4	.....	5	.....	var.	½ h'r	½ h'r	light	ssw.	drizzling.
Bk. Xenia, Shanghai, China	.....	.....	71	21.7	.....	ese.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	clear.
H. M. S. Sappho, N. 16° 50′, W. 99° 52′	29.92	760.0	80	26.7	100	nw.	.....	.....	2	.....	3	nw.	.....	.....	.....	2	w.	d. clouds
U. S. S. Ranger, San Jose, Guatemala	29.94	760.5	77	25.0	91	n.	.....	.....	2	.....	5	.....	.....	0.02	0.5	sm'h	.....	fair
S. Henry Failing, N. 37° 34′, W. 124° 06′†	29.90	759.4	60	15.6	.....	wnw.	.....	.....	6	.....	fg.	.....	.....	0	0	long	nw.	foggy.
S. Grecian, Yokohama, Japan †	29.92	760.0	62	16.7	83	n.	.....	.....	6	.....	10	.....	n	0	0	.....	.....	cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W	30.25	768.3	57	13.9	87	sw.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	showery
H. M. S. Espiegle, S. 1° 17′, E. 175° 36′	29.91	759.7	81	27.2	74	nne.	.....	.....	1	.....	2	.....	.....	.....	.....	2	nne.	d. clouds.
H. M. S. Kingfisher, S. 25° 56′, W. 127° 29′	29.99	761.7	70	21.1	.....	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	sm'h	showery.
H. M. S. Nelson, Souva, Feejee Ids, Oceania	29.73	755.1	71	21.7	95	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Iroquois, Valparaiso, Chili	30.13	765.2	57	13.9	81	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Lackawanna, S. 23° 16′, W. 96° 08′*	29.99	761.7	68	20.0	74	nne.	.....	.....	5	.....	2	.....	n.	.....	.....	sm'h	e.	clear.
U. S. S. Onward, Callao Peru†	30.12	765.0	63	17.2	83	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Pensacola, Callao, Peru*	29.96	761.0	64	17.8	89	nw.	4	1.8	.....	.....	10	.....	nw.	0	0	.....	.....	cloudy.
U. S. S. Wachusetts, S. 19° 32′, W. 154° 09′ *†	30.08	764.0	75	23.9	90	ene.	.....	.....	2	.....	8	.....	ne.	.....	.....	long	s.	cloudy.
S. S. Australia, Sydney, N. S. W	29.99	761.7	55	12.8	93	se.	.....	.....	2	.....	8	.....	sw.	8 h'r	8 h'r	.....	.....	heavy rain.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.92	760.0	80.3	26.8	89	nw.	.....	.....	1	.....	4	.....	.....	.....	.....	sm'h	.....	d. clouds.
S. S. City of Sydney, Sydney, N. S. W *†	30.12	765.0	56	13.3	87	sw.	.....	.....	4	.....	7 ns	.....	sw.	.....	.....	.....	.....	cloudy.
S. S. Gordon Castle, S. 19° 10′, E. 147° 06′*	30.07	763.8	68.0	20	79	se.	.....	.....	4–5	.....	1	.....	se.	.....	.....	.....	.....	clear.
Bk. Chas. Stewart, S. 36° 00′, E. 155° 00′†	30.09	764.3	60	15.6	.....	sse.	.....	.....	6	.....	5	.....	se.	.....	.....	r'gh	var.	fair.
Bk. Edmund Phinney, Pisagua, Peru*†	30.04	763.0	60	15.6	.....	se.	.....	.....	3	.....	2	.....	.....	0	0	light	w.	hazy.
S. Parker M. Whitmore, S. 55° 42′, W. 84° 30′ *†	28.78	731.0	40	4.4	.....	nne.	.....	.....	5	.....	5	.....	nne.	7 h'r	7 h'r	cross	var.	squally.
S. Storm King, S. 53° 44′, W. 80° 08′ *†	29.03	737.3	.....	.....	.....	nw.	.....	.....	1	.....	5	.....	nw.	6 h'r	6 h'r	r'gh	w.	fair.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	29.97	761.2	81	27.2	91	se.	.....	.....	2	.....	3	sse	.....	.....	.....	2	sse.	d. clouds.
S. S. Tourmaline, N. 6° 45′ E. 78° 20′	29.79	756.7	83	28.3	83	wsw.	.....	.....	3	.....	2	w.	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Enterprise, S. 26° 40′, E. 41° 00′*	30.17	766.3	72	22.2	62	ssw.	.....	.....	3–4	.....	2	.....	ene.	.....	.....	sm'h	.....	clear.
U. S. S. Juniata, N. 18° 45′, E. 72° 42′	29.62	752.3	83	28.3	96	sw.	.....	.....	4	.....	10	.....	sw.	mod.	mod.	.....	.....	raining.
S. S. Galatia, N. 19° 04′, E. 39° 22′ *†	29.77	756.1	85	29.4	.....	w.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Malabar, Bassein, India *†	29.63	752.6	.....	.....	.....	sw.	.....	.....	4	.....	5	.....	sw.	10 h'r	10 h'r	sm'h	.....	raining.
S. Annie M Law, S. 33° 50′, E. 28° 05′ *†	30.38	771.6	70	21.1	.....	nne.	.....	.....	1	.....	2	.....	ne.	0	0	high	ssw.	clear.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 6, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.08	764.1	72.3	22.4	79	n.			1		0			0	0	clear	Malaterre.
Algiers			29.94	760.5	75.2	24.0	49	w.			6		0			0	0	clear	Thève.
La Calle			29.91	759.8															Fonfrède.
Tunis			29.86	758.5															Jacques.
Saida			30.07	763.7															Pérès.
Tebessa			29.93	760.3	73.8	23.2	30	wnw.			3		2			0	0	fair	St. Martin.
Geriville					89.6	32.0	7	n.			3		0			0	0	clear	Forfert.
Laghouat			29.97	761.2	79.9	26.6	24	nw.			2		0			0	0	clear	Abraham.
Biskra			29.90	759.5	84.2	29.0	33	sw.			3		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.44	773.2	57.0	13.9	83	calm	0	0			10			0	0	foggy	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.22	767.6	30.31	769.9	51.2	10.7	98	wsw.	2	0.9			5			0.008	0.2	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.06	738.0	29.58	751.3	73.4	23.0	43	sw.			4		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.87	733.2	29.56	750.8	72.3	22.4	66	e.	3.1	1.4			7			0.075	1.9		Dr. Wierzbiski
Eperies	28.75	730.2	29.58	751.2	76.3	24.6	66	calm			0	cs	7 s			0	0		Julius Mikolik.
Gratz	28.35	720.2	29.53	750.1	75.4	24.1	69	s.			3		7			0	0		Andreas Rospini.
Hermannstadt	28.25	717.5	29.57	751.1	82.0	27.8	41	s.			3		5			0.035	0.9		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.21	716.6	29.48	748.8	72.3	22.4	66	wsw.			3		9			0.146	3.7		The Staff.
Lemberg	28.63	727.3	29.56	750.9	75.2	24.0	44	sw.			1		10			0.177	4.5		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.55	750.5	29.65	753.1	72.3	22.4	65	sw.			3		3			1.102	28.0	thnd'r str'm	I. R. Hydrographic Office.
Szathmar	29.14	740.1	29.58	751.4	85.1	29.5	69	s.			4		8			0	0		Joseph Midlinszky, S. J.
Szegedin	29.32	744.8	29.59	751.5	75.9	24.4	57	s.			1		5			0	0		Karl Stancel.
Trieste	29.55	750.5	29.65	753.0	70.9	21.6	71	sw.			1		6			0.024	0.6		Royal Academy.
Vienna	28.82	732.1	29.50	749.2	75.6	24.2	59	n.			1		7			0.004	0.1		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.86	758.4	29.96	761.0	48.5	9.2	69	e.	6	2.7			10			0	0	overcast	W. Boswell.
Armagh, Observatory	29.58	751.3	29.82	757.4	60.8	16.0	58	ese.	10	4.5			0					blue sky	S. Ball.
Bidston, Liverpool Obs'y			29.83	757.7	61.8	16.6	49	e.	16	7.2			0					blue sky	John Hartnup.
Bolton, Sharples	29.31	744.5	29.84	757.9	60.8	16.0	59	ese.	6	2.7								blue sky	Thomas Mackereth.
Bradford, Yorkshire	29.47	748.5	29.86	758.4	57.3	14.1	63	ne.			2		6			0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.08	764.0	30.11	764.8	83.0	28.3	67	ne.			3		2					d. clouds	Corpl. W. I. Cull, A. H. C.
Cardington	29.74	755.4	29.84	757.9	68.2	20.1	53	e.			1.0		0					blue sky	John McLaren.
Chatham, School M. E.	29.71	754.6	29.84	757.9	58.0	14.4	72	ne.			3		4					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.58	751.3	29.81	757.2	53.0	11.7	93	ese.			3		10					misty	The Staff.
Fort Napier, Natal	27.76	705.1	29.98	761.5	70.0	21.1	22	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	78.0	25.6	82	e.			1		4					raining	J. W. Smith.
Galway, Queen's College	29.66	753.4	29.69	754.1	67	19.4	60	e			2		3			0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	71.0	21.7	95	nw.			2		8					gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.68	753.9	29.89	759.2	55.3	12.9	62	ene.			3		2					misty	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.66	753.4	29.82	757.4	67.1	19.5	51	e.			1		1					blue sky	The Staff.
Guernsey	29.50	749.3	29.70	756.7	56.5	13.6	90	ne.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.78	756.4	29.82	757.4	62.7	17.1	61	ne.	12	5.4			0					hazy	The Staff.
Leicester, Museum	29.57	751.1	29.82	757.4	60.3	15.7	61	ne.			2		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.68	753.9	29.75	755.6	74.0	23.3	98	nw.										blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.17	766.3	83.2	28.4	71	e.			3		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.33	745.0	29.84	757.9	59.6	15.3	61	w.			2		1					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.61	752.1	29.84	757.9	62.9	17.2	53	ene.			4		0					blue sky	The Staff.
Plymouth	29.71	754.6	29.80	756.9	56.0	13.3	76	e.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.87	758.7	29.97	761.2	48.8	9.3	75						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.77	750.1	29.83	757.7	75.0	23.9	65	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.60	751.8	29.88	758.9	63.6	17.6	54	ne.			2		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.81	757.2	29.84	757.9	60.6	15.9	60	e.			4		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.85	758.2	59.9	15.5	52	e.	13	5.8								blue sky	W. C. Carlisle.
Truro, Royal Institution	29.75	755.0	29.86	758.4	56	13.3	87	se.			2		10					raining	W. Newcombe.
Valencia, Observatory	29.66	753.4	29.69	754.1	57.9	14.4	91	se.	21	9.4			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.42	747.3	29.81	757.2	70.2	21.2	59	nw.	18.6	8.3		1 c		w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.96	761.0	30.00	762.0	55	12.8	90	n.	3	1.3			10 n		nw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.97	761.2	30.03	762.7	62	16.7	72	ne.	3	1.3		2 k	5 ks	ne.	ne.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.76	755.9	29.94	760.5	63.0	17.2	91	nw.			1	0	8 s			0.098	2.5	d. clouds	Jns. Smith, M. A.
Dalhousie, N. B	29.98	761.5	30.03	762.7	60.5	15.8		w.			1		10 s			0.230	5.8	overcast	H. A. Johnson.
Father Point, Quebec*	29.99	761.7	30.01	762.2	45	7.2	86	calm	0	0		2 c;s	5 ks	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.69	728.7	29.50	749.3	56	13.3	93	n.	2	0.9			10 ks			0.41	10.4	cloudy	James Stewart.
Fredericton, N. B	29.98	761.5	30.04	763.0	65.8	18.8	60	nw.	5	2.2		9ck;cs	0	w.		0	0	d. clouds	Prof. Harrison, L. L. D.
Granton, Ontario	28.92	734.6	29.98	761.5	65.0	18.3	100	s.	2	0.9						0.51	13.0	fine	Jas. Grant.
Halifax, N. S*	29.88	758.9	30.01	762.2	65	18.3	68	ne.	5	2.2		8 k	0	nw.		0	0	fair	A. Allison.
Hamilton, Ontario	29.88	751.3	29.96	761.0	69.2	20.7		sw.			1	5 k	0	sw.		0.25	6.3	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.66	753.4	29.99	761.7	59	15.0	90	s.	6	2.7		5 ck	5 k	sw.	sw.	0.04	1.0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.91	759.7	29.98	760.7	49.0	9.4	85	se.			1		10 n			0	0	overcast	O. H. Rigby.
London, Ontario	29.11	739.4	29.98	761.5	66.5	19.2	91	s.			1	1 cs	0			0.50	12.7	blue sky	E. B. Reed.
Montreal, Quebec*	29.78	756.4	29.98	761.5	64	17.8	81	se.	6	2.7		0	0			0.03	0.8	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.72	754.9	29.96	761.0	63.0	17.2	84	ne.			1		10 ks			0.15	3.8	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.23	742.4	29.90	759.4	63	17.2	100	s.	9	4.0			fg.			0.28	7.1	foggy	Rev. R. Mosley.
Peterboro, Ontario	29.49?	749.0?	30.21?	767.3?	67.0	19.4	84	w.			1	3 c	3 k		w.	0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.33	745.0	30.00	762.0	63	17.2	94	sw.	6	2.7		5 c	0	w.		0.57	14.5	fair	H Morgan.
Port Stanley, Ontario	29.36	745.5	29.99	761.7	61	16.1	90	sw.	3	1.3		2 ck	0	w.		0	0	clear	M. Payne.
Quebec, Quebec*	29.68	753.9	30.03	762.7	57	13.9	96	calm	0	0			10 n			0.03	0.8	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.46	748.3	29.91	759.7	59	15.0	93	calm	0	0			10 s		w.	0.18	4.6	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.97	761.2	30.02	762.5	63	17.2	80	calm	0	0		0	0			0	0	clear	
St. John, N. B	29.86	759.4	30.02	762.5	67.0	19.4	64	n.	5	2.2		5 ck	0			0.320	8.1	d. clouds	G. Murdock, C. E.
Saint John's, N. F	29.60	751.8	29.85	758.2	50	10.0	79	se.			2		10 n			0.10	2.5	foggy	J. Higgins.
St. Pierre, N. F			29.80	756.9	50.0	10.0		ne.			6					0	0		The Commandant.
Sangeen, Ontario*	29.20	741.7	29.88	758.9	69	20.6	87	s.	12	5.4		2 cs	0			0.64	16.3	clear	
Stratford, Ontario	28.73	729.7	29.96	761.0	66.8	19.3	94	sw.	3	1.3		1 cs	2 ks		sw.	0.637	16.2	blue sky	C. J. Macgregor, M. A.
Sydney, C. B*	29.87	758.7	29.93	760.2	63	17.2	70	n.	1	0.4		10 c	0	nw.		0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.62	752.3	29.99	761.7	58	14.4	100	s.	1	0.4			fg.			0.69	17.5	foggy	Magnetic Observatory.
Windsor, N. S	29.91	759.7	30.00	762.0	63.0	17.2	72	ne.	8	3.6		c	4 k			0	0	d. clouds	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.96	735.6	29.98	761.5	70.2	21.2	92	s.	14	6.3		1 cs	0	w.		1.07	26.2	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.98	761.5	30.05	763.3	57	13.9	83	calm	0	0		8 c	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper 0-10	Lower 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.17	766.3	30.20	767.1	65.0	18.3	88	w.	6.7	3.0		0	3 k			0	0	clear	John Duffie
Springbok Fontein	28.06	712.7			68	20.0	22	e.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.66	753.4	29.77	756.2	72.7	22.6	63	ne.			2		4			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.84	758.0	29.87	758.6	70.0	21.1	73	sse.	7.4	3.3		0	0			0	0	clear	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.68	753.8	29.72	755.0	60.4	15.8	58	nne.	13	6			2						Oversergent Fischer.
Fanoe	29.74	755.4	29.76	755.9	62.4	16.9	56	nw.			6		5						Overloerer Lauridsen.
Godthaab, Greenland	29.85	758.3	29.90	759.4	32.7	0.4	83	n.			2-4		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.77	756.1	29.82	757.3	31.3	— 0.4		sw.			4		10					snowing	
Stykkisholm, Iceland	29.86	758.5	29.91	759.6	46.0	7.8	88	sw.			2		10						A. O. Thorlacius.
Thorshavn	30.04	763.0	30.06	763.6	47.5	8.6	81	e.	7	3			10						Overloerer Bergh.
Vestervig	29.71	754.5	29.80	756.8	56.7	13.7	74	nw.			4		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.77	756.2			86.4	30.2	30	ne.	0.9	0.4		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.18	741.1	29.81	757.1	66.2	19	88	w.			1		n; k			0.295	7.5		M. Labroue, Director.
Alençon, Normal School	29.20	741.7	29.75	755.7	74.1	23.4	96	nw.			1	0	5 kn		ne.	0.16	4.	cloudy	M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.57	751.0	29.65	753.0	75.2	24	62	nw.			1		5		nw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.15	740.5	29.69	754.1	66.2	19.0	74	ne.			1		10		ne.	0.031	0.8	covered	M. Saillard, Director.
Beauvais, Normal School	29.49	749.1	29.75	755.6	68.7	20.4	37	nne.			2		5		nne.	0.010	0.4	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.77	730.7	29.67	753.6	68.0	20	91	sw.			1		10 n		ne.	0.012	0.3	covered	M. Gobin, Director.
Bordeaux, Observatory	29.60	751.8	29.85	758.3	64.9	18.3	70	nw.			2		8		nw.	0.697	17.7	almost cov.	M. Rayet, Director.
Bourges, Normal School	29.12	739.6	29.61	752.0	68.9	20.5	68	nnw.			2		n		nnw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.63	752.5	29.87	758.6	68.7	20.4	72	sw.			2		6		sw.	0.039	1.0		M. de Kermarrec, Dir.
Caen, Normal School	29.65	753.0	29.72	754.8	66.2	19	73	nw.			1		10		nw.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch	29.34	745.3	29.65	753.1	74.3	23.5	66	n			2		0			1.496	38.0	clear	M. Jadot, Director.
Charleville, Normal School	29.19	741.3	29.68	753.8	73.8	23.2	51	e.			1		0			0	0	clear	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.40	721.4	29.72	754.8	64.0	17.8	76	w.			2		10			0.157	4.0	covered	M. Alluard, Director.
Cluny, Normal School	28.83	732.3	29.66	753.3	72.5	22.5	66	nw.			1		6		ne.	1.394	35.4		M. de Villemontée, Dir.
Commercy, Normal School	28.82	732.2	29.74	755.3	71.6	22	62	nw.			2		n	nw.	nw.	1.165	29.6		Dr. Coulet, Director.
Gap, Normal School	27.10	688.4	29.55	750.6	65.3	18.5	77	se.			2	0	4 n			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.51	724.1	29.59	751.5	71.4	21.9	54	nw.			4		5		nw.	0.28	7.		M. Kina, Director.
Grenoble, Normal School	28.89	733.9	29.64	752.8	68.0	20	69	n.			1	ck	0	n.		0	0		M. Ablard, Director.
Guéret, Normal School	28.21	716.5	29.77	756.1	59.4	15.2	93	sw.			3		n		sw.	0.024	0.6		M. Delorme, Dir.
Lamballe, Normal School	29.69	754.0	29.95	760.8	60.1	15.6	93	nw.					fg		nw.	0.295	7.5	foggy	M. Ollitrault, Director.
Lescar, Normal School	29.34	745.2	29.89	759.2	67.1	19.5	70	sw.			1	0	5 k			0.748	19.0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.72	755.0	29.83	757.6	68.0	20.0	65	w.			2		5	calm	nw.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.65	727.6	29.66	753.4	69.1	20.6	66	n.			1		5 kn	sse.	nnw.	0.114	2.9	cloudy	M. André, Director.
Mans, Normal School	29.44	747.7	29.74	755.3	67.8	19.9	94	nw.			1		10			0	0	covered	M. Piboën, Director.
Marseille, Observatory	29.35	745.6	29.62	752.3	73.9	23.3	54	wnw.			3.4		9		nw.	inap.	inap.		M. Stephan, Director.
Montlouis	24.69	627.1	29.53	750.1	55.0	12.8	47	ne.	13.0	5.8			7	n.		0.343	8.7		M. Cave for Dr. Fines.
Montpellier, Normal School	29.53	750.0	29.65	753.1	74.1	23.4	66	wnw.			4		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.92	734.5	29.67	753.7	71.6	22.0	75	nw.			1		k			0.260	6.6		M. Hasse, Director.
Nantes, Observatory	29.67	753.7	29.84	757.8	64.0	17.8	78	nw.			1-2		10 n		wsw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.67	753.6	29.78	756.3	66.7	19.3	52	nw.	29.8	13.3			9		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.13	536.7			33.4	0.8		se.			1		fg		se.	1.307	33.2	dense fog	M. Vaussenat, Director.
Privas, Normal School	28.63	727.1	29.65	753.2	67.3	19.6	68	ne.			1		10 n		n.	0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.95	633.8			47.8	8.8	100	wnw.			4		10			0.437	11.1	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.75	755.6	29.78	756.4	70.9	21.6	68	calm			0		2		w.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.53	750.0	29.73	755.2	65.1	18.4	78	w.			1		5		w.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.70	703.5	29.78	756.5	65.5	18.6		nw.			1		10		se	1.508	38.3	raining	M. Seger, Director.
Rouen, Normal School	29.72	755.0	29.77	756.2	69.4	20.8	58	ne.			2		5	ne.		0.189	4.8	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.57	751.0	29.73	755.1	70.7	21.5	46	n.			1		5	ssw.	e.	0.055	1.4		M. Renou, Director.
Toulouse, Observatory	29.19	741.4	29.91	759.7	63.7	17.6	78	w.			3		8			0.201	5.1	very cloudy	M. Baillard, Director.
Tours	29.58	751.3	29.75	755.6	71.6	22.0	74	wsw.			1		5	e.	wsw.	0.354	9.0	cloudy	M. de Tastes.
Versailles, Observatory	29.24	742.8	29.73	755.2	73.0	22.8	30	ne			3					0.087	2.2		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.78	756.4	29.93	760.2	64.4	18.0	76	nw.	15.7	7.0		0	7 k		w.	0.673	17.1		M. Cartier, Director.
GERMAN.																			
Ansbach	28.19	716.1	29.56	750.7	77.0	25.0	33	ne.			4		1	ne.		0	0		Prof. Jnedt.
Bamberg	28.79	731.2	29.62	752.4	72.3	22.4	37	ne.			3	0	2 ks			0	0		Prof. Dr. Hoh.
Berlin	29.55	750.6	29.69	754.1	73.8	23.2	29	n.			1		3			0	0		Dr. Sensch.
Breslau	29.13	740.0	29.66	753.3	70.9	21.6	28	nne.			3		1	wnw.		0	0		Royal University Obs'y
Carlsruhe	29.17	740.9	29.60	751.8	79.2	26.2	36	n.			5		9	n.		0	0		Albert Senz.
Cassel	28.97	735.8	29.68	753.9	74.3	23.5	22	n.			6		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.62	752.4	77.9	25.5	25	n.			2		0			0	0		Physical Society.
Friedrichshafen	28.25	717.6	29.61	752.1	68.5	20.3	75	sw.			1		10	e.		0.646	16.4		Wilhelm, Chief Tel.
Hamburg	29.64	752.9	29.73	755.2	66.9	19.4	56	nne.			2		3	nw.		0	0		E. Preller.
Kiel	29.73	755.1	29.74	755.5	62.4	16.9	59	ne.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.25	743.0	29.65	753.2	72.3	22.4	24	ne.			3		1			0	0		H. Leppig, Asst.
Magdeburg	29.49	749.0	29.67	753.6	71.8	22.1	34	nnw.			1		0			0	0		Weather Observatory.
Memel	29.62	752.4	29.67	753.6	53.8	12.1	65	nw.			4		10 s						Issermann.
Munich	27.80	706.2	29.64	752.9	68.9	20.5	69	calm			0		8	w.		0.760	19.3		Central Station.
Neufahrwasser	29.69	754.0	29.70	754.4	55.9	13.3	70	n			3		5			0	0		A. Lothes.
Neustadt, Palatinate	29.07	738.4	29.59	751.6	80.2	26.8	33	ne.			3		0			0	0		Dicknether.
Stuttgart	28.67	728.3	29.51	749.5	77.9	25.5	35	e.			2		2	e.		0	0		Prof. Dr. Schoder.
Wustrow	29.76	755.9	29.79	750.6	59.4	15.2	75	nne.			4		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.46	748.2	29.83	757.6	81.0	27.2		s.			2.5		7 k			inap.	inap.		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.40	746.8	29.45	748.1	89.2	31.8	80	w.	30.0	13.4			8		w.	0	0	d. clouds	
Deesa	28.98	736.0	29.43	747.4	102.2	39.0	29	wsw.	13.0	5.8			0			0	0	blue sky	
Bombay	29.60	751.9	29.64	752.9	77.0	25.0	83	s.	15.0	6.7			10		wsw.	0.94	23.9	raining	
Poona, Yarrowda	27.80	706.2	29.64	752.8	80.3	26.8	67	nw.	18.0	8.0			10			0	0	overcast	
Trichinopoly	29.44	747.4	29.71	754.7	92.0	33.3	47	w.	2.0	0.9			0			0	0	blue sky	
Belgaum	27.16	689.8	29.71	754.7	69.8	21.0	94	sse.	13.0	5.8			10	w.	s.	0.65	16.5	d. clouds	
Lahore	28.65	727.6	29.35	745.5	98.2	36.8	28	n.	2.0	0.9			2			0	0	misty	
Roorkee	28.52	724.5	29.39	746.5	90.4	32.4	48	calm	0	0						0	0		
Agra	28.86	732.9	29.39	746.5	102.1	38.9	19	w.	2.0	0.9			0			0.03	0.8	blue sky	
Nagpur	28.41	721.7	29.42	747.3	93.2	34.0	37	sw.	20.0	8.9			10		sw.	0	0	overcast	
Jubbulpore	28.12	714.1	29.42	747.2	93.7	34.3	34	calm	0	0			4		nw.	0.04	1.0	d. clouds	
Lucknow	29.15	740.3	29.51	749.5	99.4	37.4	35	wnw.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.09	738.9	29.39	746.4	100.4	38.0	24	nw.	4.0	1.8						0	0	misty	
Patna	29.25	742.8	29.42	747.4	91.6	33.1	54	n.	6.1	2.7			0			0.23	5.8	blue sky	
Hazaribagh	27.47	697.6	29.40	746.8	90.5	32.5	45	n.	7.5	3.4			10			0	0	gloomy	
Cuttack	29.35	745.6	29.43	747.5	94.3	34.6	51	wnw.	5.0	2.2			8			0	0	d. clouds	
Calcutta, Alipore	29.40	746.8	29.43	747.4	80.8	27.1	85	ssw.	3.0	1.3			10	nnw.		0.50	12.7	overcast	
Dhubri	29.30	744.3	29.42	747.2	86.6	30.3	72	calm	0	0			2	w.		0	0	d. clouds	
Chittagong	29.39	746.6	29.48	748.9	81.7	27.6	88	wsw.	3.0	1.3			10			0	0	overcast	
Sibsagar	29.16	746.7	29.49	749.0	83.9	28.8	84	ne.	2.0	0.9			6	w.	w.	0	0	d. clouds	
Seypore	28.06	712.6	29.47	748.5	85.3	29.6	74	ssw.	7.3	3.3			3		ssw.	0.44	11.2	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Zanzibar	29.98	761.4	30.00	762.0	84.4	29.1	62	se.	7.6	3.4			5	s.	ne.	0	0	d. clouds	
Bellary	28.19	716.0			86.5	30.3	45	sw.	18	8.0		4 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.25	743.0	29.65	753.0	67.6	19.8	86	sw.	1.8	0.8			9			0.307	7.8		Prof. Giovanni Clodig.
Milan	29.14	740.1	29.64	752.8	61.5	16.4	87	ne.					10	se.		1.299	33.0		Prof. G.V.Schiapparelli.
Padua	29.54	750.4	29.65	753.1	67.0	19.8	68	wnw.	9.4	4.2			7	sw.		1.784	45.3		Prof. Dott. Lorenzoni.
Moncalieri	28.72	729.5	29.60	751.8	67.1	19.5	77	s.	3.1	1.4			10	n.		0.063	1.6		Prof. F. F. Denza.
Genoa	29.43	747.6	29.62	752.4	61.2	16.2	81	ne.	2.5	1.1			10	s.		1.791	45.5		Prof. G. M. Garibaldi.
Mondovi	27.73	704.4	29.59	751.6	59.4	15.2	87	n.			2		10			1.358	34.5		Prof. D. C. Bruno.
Pesaro	29.56	750.7	29.60	751.9	70.2	21.2	77	se.	9.8	4.4			10	sw.		0.417	10.6		Prof. Luigi Guidi.
Florence	29.39	746.6	29.64	752.9	63.0	17.2	91	w.			2		10			0.917	23.3		Prof. Costantino Pittei.
Leghorn	29.49	749.1	29.58	751.2	68.5	20.3	66	s.	8.1	3.6			10	ene.		0.618	15.7		Prof. P. Monte.
Rome	29.49	749.0	29.66	753.3	71.6	22.0	58	sse.	20.6	9.2			10	s.		0.996	25.3		Prof. P. Tacchini.
Lecce	29.47	748.5	29.71	754.7	80.2	26.8	43	ssw.	13.7	6.1			4			0.039	1.0		Prof. C. de Giorgi.
Cosenza	28.87	733.4	29.73	755.1	77.4	25.2	68	ssw.	1.8	0.8			4	sw.		0	0		Prof. D. Conti.
Cagliari	29.49	749.0	29.67	753.7	72.3	22.4	46	nw.			0		5	w.		0.004	0.1		Prof. A. Pacinotti.
Palermo	29.52	749.9	29.77	756.2	75.9	24.4	37	w.	11.9	5.3			1	w.		0.039	1.0		Prof. G. Cacciatore.
Syracuse	29.67	753.6	29.71	754.7	74.5	23.6	76	nne.	16.1	7.2			4	nw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.23	742.4	29.74	755.3	66.4	19.1	86	s.	1.3	0.6			9	sw.		0.303	7.7		Prof. F. Brioschi.
Stelvio	21.94	557.2			37.4	3.0	98	ne.			4		10			0.480	12.2	covered	Prof. P. F. Denza.
Valdobbia	21.95	557.6			47.8	8.7	73	ne.			2		10			0.028	0.7	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.92	759.9	29.95	760.8	55.0	12.8	85	se.			2		10 ck		nw.	0	0	cloudy	H. Hattori.
Awomori	29.96	761.0	29.99	761.7	48.8	9.3	76	e.	13.6	6.1			10ks;s			0	0	overcast	K. Ogawa.
Hamamatsu	29.92	759.9	29.94	760.6	65.3	18.5	82	s.			6	0	4 n		w.	0.008	0.2	raining	Y. Sekigawa.
Kanazawa	29.88	758.9	29.98	761.5	57.7	14.3	96	w.	1.3	0.5			10			0.005	0.1	overcast	S. Endo.
Kagoshima	29.95	760.7	29.96	761.0	67.0	19.4	78	nw.			4	0	0			0	0	clear	G. Miyanonaza.
Kioto	29.80	756.9	29.97	761.3	59.4	15.2	82	nnw.	2.2	1.0		0	1 s			0	0	clear	M. Tojima.
Kochi	29.91	759.7	29.93	760.2	71.6	22.0	81	n.	1.7	0.7		0	3 s			0	0	clear	K. Kusunose.
Miasaka	29.91	759.8	29.94	760.5	69.0	20.6	84	wnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.95	760.7	30.06	763.5	47.8	8.8	86	ne.	1.1	0.4			10 s			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.76	755.9	29.96	761.0	66.1	18.9	84	n.	0.9	0.4		0	0			0	0	clear	S. Takehayashi.
Niigata	29.90	759.4	29.93	760.2	60.6	15.9	83	sw.	0.0	0.3			10 ck		w.	0.005	0.1	cloudy	M. Morita.
Nobiru	29.98	761.4	29.99	761.8	49.8	9.9	85	ne.	7.8	3.5			10 s			0.005	0.1	overcast	H. Midzushima.
Numazu	29.92	759.9	29.95	760.8	60.1	15.6	80	ssw.			2		10 n			0.004	0.1	raining	R. Kaneda.
Osaka	29.94	760.5	29.96	760.9	61.7	16.5	74	ne.	10.6	4.7		0	1 s;ck			0	0	clear	H. Omura.
Sakai	29.98	761.6	29.99	761.8	61.1	16.2	81	calm			0		10s;ks		nw.	0	0	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	29.89	759.1	29.96	761.0	54.7	12.6	88	nnw.	6.3	2.8			9 ks;s		n.	0.268	6.8	cloudy	The Staff.
Wakayama	29.87	758.7	29.92	759.9	68.1	20.1	67	ne.	4.3	1.9		0	3 ck		n.	0	0	fair	K. Sakai.
Shimonoseki	29.84	758.0	29.99	761.7	62.0	16.7	85	calm			0	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.78	756.4	29.97	761.2	77.1	25.1	72	nnw.	5.5	2.5		0	3 ks		se.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.72	602.4	29.94	760.4	56.8	13.8	86	calm	0	0		0	0			0.015	0.4	clear	Prof. Vicente Fernandez.
Leon	24.35	618.5	30.05	763.3	56.5	13.6	93	ssw.	0.9	0.4		0	0			0.032	0.8	clear	Prof. M. Leal.
Mazatlan	29.73	755.1	29.99	761.7	75.0	23.9	88	nne.	0.9	0.4		0	1 c			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					76	24.4	82	s.	11.6	5.2			10 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.79	756.7	29.79	756.7	63.3	17.4		n.			3					0	0		
Groningen	29.74	755.4	29.80	756.8	59.9	15.5		nne.			2					0	0		
Helder	29.82	757.3	29.82	757.3	57.2	14.0		ne.			4					0	0		
Hellevoetsluis	29.78	756.5	29.78	756.5	66.7	19.3	66	nne.			3					0	0		
Utrecht	29.73	755.2	29.78	756.4	68.5	20.3	57	nne.			3		2			0	0	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.83	757.7			82.0	27.8	79	ne.	1.5	0.7			2			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.70	754.3	29.76	755.9	53.6	12.0	54	nnw.	13	6			4			0	0		
Bronø	29.86	758.5	29.90	759.5	54.7	12.6	77	n.			2		9			0	0		
Christiania	29.56	750.8	29.70	754.4	65.5	18.6	32	sw.	4	2			6			0	0		
Gjesvær	30.09	764.3	30.11	764.9	48.7	9.3		ne.			2		0						
Lodingen	29.93	760.2	29.98	761.4	62.4	16.9	57	ne.			2		1			0	0		
PORTUGUESE.																			
Angra, Azores	29.80	756.8	29.95	760.8	61.7	16.5	73	nw.	8.7	3.9			5			0.417	10.6		Dr. J. A. Sampaio.
Campo Major	29.03	737.4	30.02	762.0	64.0	17.8	93	sw.	4.3	1.9			9			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.04	763.0	30.13	765.2	67.6	19.8	82	sw.	8.1	3.6			3	w.		0.028	0.7		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.5	30.04	763.0	61.7	16.5	79	ssw.	9.8	4.4			10			0.091	2.3		The Staff.
Ponta Delgada, Azores	29.91	759.8	29.98	761.6	66.9	19.4	68	wnw.	5.6	2.5			3	nne.		0	0		
Saint Paul de Loando	29.79	756.7	29.99	761.8	75.2	24.0	91	ssw.			1		10			0	0		
San Salvador	28.13	714.6	29.97	761.1	78.4	25.8	57	sw.			3		5			0	0		
Serra da Estrella	25.26	641.6	29.99	761.8	47.5	8.6	87	s.	8.7	3.9			10			1.575	40.0	rain & fog	
RUSSIAN.																			
Akmolinski	28.76	730.4	29.78	756.5	73.0	22.8	22	e.	4	2		8 ck	0			0	0		Major K. Lasarew.
Archangel	29.99	761.8	30.01	762.3	73.0	22.8	41	s.	2	1		0	4 ks			0	0		Capt. Sselitwerstow.
Ashurada	29.85	758.3	29.76	755.9	80.2	26.8	74	wnw.	7	3		0	3 k			0	0		
Astrakhan	29.89	759.2	29.81	757.1	71.1	21.7	60	nw.	4	2		0	3 ks			0.445	11.3		Capt. Wisganow.
Baku	29.84	758.0	29.80	756.8	72.7	22.6	69	n.	13	6		0	1 s			0.028	0.7		
Barnaul	29.39	746.5	29.88	758.9	57.4	14.1	52	n.	9	4			5			0	0		Meteorological Obs'y
Bielosersk	29.45	747.9	29.89	759.3	72.3	22.4	44	nnw.	7	3		0	5 ks			0	0		
Dorpat	29.40	746.7	29.63	752.7	59.4	15.2	74	ese.	18	8			10ks;n			0.264	6.7		Observatory.
Ekaterinburg	29.11	739.4	30.06	763.4	59.2	15.1	56	ese.	7	3		5c;ck	0			0.039	1.0	light clouds	Meteorological Obs'y
Elissawetgrad	29.37	746.1	29.80	757.0	76.8	24.9	41	wsw.	7	3		c	9 ks			0	0	light clouds	
Irkutsk	28.32	719.3	29.96	761.0	48.0	8.9	88	calm			0		9			0.752	19.1		
Kasalinsk	29.36	745.8	29.54	750.3	82.4	28.0	35	e.	9	4		0	0						
Kasan	29.58	751.4	29.84	757.9	71.2	21.8	42	e.	4	2			9			0	0		Observatory.
Kem	29.97	761.3	30.02	762.6	67.1	19.5	54	ne.	4	2		0	5 k			0	0	hv'y clouds	
Kertch	29.89	759.2	29.91	759.8	68.0	20.0	59	calm	0	0		0	5 k			0	0		Lagorio & Sastyres.
Kief	29.10	739.0	29.72	755.0	57.0	13.9	99	nw.	31	14		0	8 ks;n			0.343	8.7		Obse. vatory.
Koslov	29.26	743.2	29.78	756.5	64.9	18.3	93	wsw.	9	4		0	7 ks			0.075	1.9	thnd'r storm	
Libau	29.58	751.2	29.60	751.8	50.7	10.4	74	wsw.	7	3			10			0	0		E. Quaas.
Lugan	29.56	750.9	29.74	755.4	76.1	24.5	35	sw.	13	6			4			0	0		Meteorological Obs'y.
Moscow	29.32	744.8	29.78	756.4	66.0	18.9	48	ene.	9	4		0	7 ks			0.020	0.5		Meteorological Obs'y
Nikolaiev	29.76	756.0	29.84	757.9	77.5	25.3	59	s.	13	6		0	2 k			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.86	758.4	29.95	760.6	48.4	9.1	92	se.	11	5			10			0	0		Iwanow.
Pekin, China	29.65	753.1	29.79	756.7	70.5	21.4	55	calm	0	0		0	1 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.23	742.5	29.56	750.7	93.4	34.1	21	wnw.	1.1	0.5		0	1 k			0	0		
Petrozavodsk	29.70	754.5	29.89	759.3	69.8	21.0	42	ese.	11	5		0	1 k			0	0		Dr. Bergmann.
Pinsk	29.11	739.3	29.58	751.4	68.2	20.1	68	n.	4	2			10 n			0.490	12.6	raining	
Poti	29.87	758.8	29.91	759.6	65.5	18.6	86	s.	7	3			10 n			0.031	0.8		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
St. Petersburg	29.75	755.7	29.78	756.3	68.5	20.3	44	ese.	16	7			9 kn					light rain	Central Physical Obs'y.
Samarkand	27.27	692 6	29.56	750.9	85.1	29.5	46	calm	0	0		1 ck	0			0	0		
Semipalatinsk	29.26	743.2	29.89	759.1	72.9	22.7	24	nw.	9	4			3			0	0		Major Lasarew
Sevastopol	29.69	754.1	29.91	759.7	72.1	22.3	60	sw.	27	12		0	5 ks			0	0		
Staroi Bykhov	29.26	743.2	29.71	754.5	65.3	18.5	63	se.	16	7			10			0.039	1.0		
Tashkend	28.04	712.2	29.57	751.0	91.8	33.2	17	calm	0	0		0	1 k			0	0	light clouds	Terch, A. M.
Tiflis	28.47	723.1	29.86	758.5	61.9	16.6	73	nw.	31	14			10 n			0.028	0.7		Physical Observatory.
Vernoe	27.24	691.9	29.61	752.1	74.8	23.8	55	e.	2	1		0	7 k			0	0		
Viatka	29.31	744.4	29.91	759.8	73.6	23.1	34	calm	0	0			3			0	0		
Warsaw	29.19	741.4	29.60	751.7	68.2	20.1	34	nnw.	7	3		0	1 s			0	0		Astronomical Obs'y.
Yeniseisk	29.74	755.5	30.04	763.0	42.1	5.6	47	wnw.	4	2			5			0	0		M. O. Marks.
Scottish.																			
Monach Lt			29.89	759.2	58	14.4	94	e.			2	0	0			0	0	clear	J. Youngclause
North Unst			29.93	760.2				n.			6		10						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.68	753.8	29.78	756.4	77.0	25.0	54	sw.	1.3	0.6		0	1 k			0.031	0.8		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.87	758.6	29.93	760.1	74.5	23.6	57	se.	2.2	1.0		2	3	nw.		0.016	0.4	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.01	686.0	29.91	759.6	62.6	17.0	63	sw.	5.6	2.5		1	4	ne.		0.260	6.6	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.6	29.91	759.8	68.2	20.1	46	sw.	11.6	5.2		0	5			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.74	755.4	29.85	758.3	79.5	26.4	53	wnw.	3.1	1.4		1	0	se.		0	0	clear	Olayo Diaz, Director.
Oviedo	29.10	739.0	29.85	758.3	65.3	18.5	70	ne.	6.5	2.9		6 k	3 k	ne.	n.	0.299	7.6	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.98	736.2	29.87	758.7	57.6	14.2	91	sw.	6.3	2.8			9			0.303	7.7	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761 8	30.06	763.5	75.6	24.2	88	e.	2.2	1.0		9cs;ck	0	nw;c		1.44	36.6	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.4	29.84	757.9	76.0	24.4	96	se.	6.6	3.0			10 n		s.	1.378	35.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	762.1	30.10	764.6	66.7	19.3	69	nw.	8.9	4.0		0	6		w.	0	0		Capt. C. Pujazou, R. N.
San Juan de Porto Rico, W. I.	29.99	761.7	30.08	764.0	80.2	26.8	94	calm	0	0		1 s	3 k	nw.	nw.	0.059	1.5	clear	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.92	760.0	29.96	761.0	74.1	23.4	81	s.			2		6			0.094	2.4		
Umea	29.80	756.8	29.85	758.1	63.0	17.2	98	ne.			4		5			0.012	0.3		
Hernosand	29.73	755.1	29.78	756.4	58.6	14.8	78	ne.			4		5			0.075	1.9		
Stockholm	29.46	748.3	29.64	752.8	51.3	10.7	97	nne.			4		10			0.492	12.5	raining	
Wisby	29.53	750.0	29.59	751.5	46.0	7.8	100	nw.			2		10			0.256	6.5	raining	
Sub-series.																			
Upsala	29.56	750.7	29.64	752.9	48.2	9.0	96	n.	11.9	5.3			10		nne.	0.118	3.0	raining	S. G. Fineman.
Swiss.																			
Geneva	28.27	718.1	29.66	753.4	66.2	19.0	64	nne.			2		9			0.008	0.2	covered	The Observatory.
Turkish.																			
Constantinople			29.87	758.6	77.2	25.1	45	s.	4	2.0			0			0	0		The Observatory.
Valona			29.85	758.1	79.2	26.2		sw.			1		2			0	0	squally	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.88	759.0	79.5	26.4	60	wsw.			2		3 k		wsw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.66	677.2			67	19.4	78						9 k		w.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.98	761.5	30.06	763.5	74	23.3	71	s.	4	1.8		7 cs	0	w.		0	0	fair	J. O. Barnes.
Alpena, Michigan	29.19	741.4	29.84	757.9	64	17.8	84	w.	7	3.1		0	0			0.48	12.2	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25 07	636.8	29.82	757.4	47	8.3	61	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.27	692.6	30.06	763.5	44	6.7	63	w.	13	5.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.05	737.9	30.20	767.1	69.5	20.8	94	e.	2	0.9		8 k	0	e.		0.14	3.6	clearing	Edward A. Beals.
Atlantic City, New Jersey	30.10	764 5	30.11	764.8	64	17.8	90	sw.	8	3.6		5 ck	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.05	763.3	30.24	768 1	74.0	23.3	84	se.	1	0.4			10 s		se.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.09	764.3	30.14	765 5	77	25.0	76	sw.	6	2.7		1 k	0			0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.08	764.0	30.10	764.5	68.0	20.0	95	sw.	7	3.1		7 ck	0	nw.		0	0	fair	G. A. Hill.
Behring Id., Behring Sea	30.07	763 8	30.09	764.3	39.8	4.3	89	s.	7	3.1			10 n			inap.	inap.	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.33	719.6	29.87	758.7	57.0	13 9	53	w.	17	7.6		3 k	5 s	nw.	nw.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.25	692.1	30.02	762.5	45	7.2	63	w.	8	3.6		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.86	682.2	30.00	762.0	46	7.8	56	w.	10	4.5		5 cs	3 s	w.	w.	0	0	cloudy	T. Gibson.
Bismarck, Dakota	27.94	709.7	29.70	754.4	54	12.2	86	nw.	20	8.9			10 s		nw.	0.01	0.3	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.05	763.3	30.08	764.0	63	17.2	93	sw	17	7.6		5 ck	2 s	sw.		0	0	fair	J. T. Elker.
Boise City, Idaho	27.44	697.0	30.22	767.6	53	11.7	69	nw.	2	0.9		6 k	0			0	0	fair	J. Kenealy.
Boston, Massachusetts	29.90	759.4	30.05	763.3	77.0	25.0	74	w.	3	1.3		1 c	2 s			0	0	clear	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	76.8	24.9	83	calm	0	0		3 cs	4 s			inap.	inap.	fair	E. C. Imlay.
Buffalo, New York	29.29	744.0	30.03	762.7	63.3	17.4	86	sw.	16	7.2		3 k	5 ks	sw.	sw.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota																0.29	7.4		A. Schneider.
Burlington, Vermont	29.71	754.6	30.00	762.0	65.0	18.3	78	s.	4	1.8			10 s		w.	0	0	cloudy	D. N. Farnell.
Cairo, Illinois	29.68	753.9	30.07	763 8	74.8	23.8	77	sw.	8	3.6		5 cs	0	sw.		0	0	fair	W. H. Ray.
Cape Henry, Virginia	30.16	761.1	30.18	766.6	73.0	22.8	82	sw.	12	5.4		3 ck	0	s.		0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.09	764 3	30.12	765.0	66.0	18.9	90	s.	13	5.8		4c;ck	0	w.		0	0	fair	W. E. Smith.
Cape Mendocino, California	29.36	745.7	30.04	763.0	66	18.9	54	n.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	77	25.0	90	ne.	7	3.1		3 ck	4 s	w.	e.	0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.16	766 1	30.21	767.3	78.5	25.8	76	sw.	2	0.9		0	8 s		sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.20	767.1	74.0	23.3	82	s.	4	1.8		4 ck	fg.	sw.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.38	746.2	30.19	766.8	67.0	19.4	97	s.	1	0.4			fg.			0.52	13.2	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	29.90	759.4	42.0	5.6	76	nw.	6	2.7		3 c	0	w.		0	0	clear	E. McGovern.
Chicago, Illinois	29 23	742.4	29.92	760.0	67.0	19.9	78	sw.	5	2.2		3 ck	3 s	w.	sw.	0.64	16.3	fair	John Laurens.
Chincoteague, Virginia	30.14	765.5	30.16	766.1	71	21.7	94	s.	6	2.7		3 c	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.45	748.0	30.10	764.5	75.0	23.9	71	s.	6	2.7		7 ck	0	sw.		0.01	0.3	fair	L. Dunne.
Cleveland, Ohio	29.30	744.2	30.04	763.0	73	22.8	73	sw.	10	4.5		4 c	0	w.		0.30	7.6	fair	J. B. Newlin.
Coleman City, Texas	28.21	716.5	29.96	761.0	65	18.3	90	calm	0	0		1 c	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.23	742.4	30.07	763 8	70	21.1	79	s.	4	1.8		4 cs	3 ks	sw.	w.	0	0	fair	D. Cuthbertson.
Concho, Fort, Texas	28.04	712.2	29.90	759.4	66.8	19.3	84	s.	16	7.2		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.28	743.7	29.92	760.0	66	18.9	90	sw.	9	4.0			10 s		sw.	0.34	8.6	cloudy	R. R. Martin.
Davis, Fort, Texas	25.17	639.3	29.78	756.4	65	18.3	65	sw.	4	1.8		0	3 ks		sw.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.50	723.9	30.24	768.1	56	13.3	72	sw.	10	4.5		8 ck	0	sw		0	0	cloudy	D. Moore.
Deadwood, Dakota	25.43	645.9	29.87	758.7	45	7.2	65	s.	4	1.8		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.12	765.0	30.14	765.5	72	22.2	84	sw.	20	8.9		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.86	631.4	29.90	759.4	53.0	11.7	77	calm	0	0		1 c	0	w.		0	0	clear	F. M. Neal.
Des Moines, Iowa	29.09	738.9	29.97	761.2	58	14.4	87	nw	1	0.4		10 cs	0	w.		0.08	2.0	cloudy	F. W. Conrad.
Detroit, Michigan	29.28	743.7	29.97	761.2	70.0	21.1	78	s.	8	3.6		0	2 k			0.45	11.4	clear	E. R. Brace.
Dodge City, Kansas	27.46	697.5	29.98	761.5	55	12.8	100	se.	16	7.2			10 n			0.82	20.8	light rain	D. J. Carr.
Dubuque, Iowa	29.20	741.7	29.90	759.4	61.3	16.3	78	w.	1	0.4			10 s		sw.	0.11	2.8	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.95	735 3	29.68	753.9	54	12.2	80	sw.	4	1.8		0	9 s		sw.	0.20	5.1	cloudy	N. B. Conger.
Eagle Pass, Texas	29.21	741.9	30.00	762.0	76.0	24.4	74	se.	6	2.7		6 ck	0	sw.		0	0	fair	F. Belford.
Eagle Rock, Idaho	25.46	646.7	30.05	763.3	43	6.1	63	s.	2	0.9		4 cs	0	w.		0	0	fair	H. R. Boynton.
Eastport, Maine	29.97	761.2	30.04	763.0	60.0	18.9	63	calm	0	0		2 ck	hz.	w.		0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.17	690.1	29.84	757.9	63	17.2	84	ne.	12	5.4			10 s		ne.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.23	666.2	29.82	757.4	71.0	21.7	51	nw.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.32	744.7	30.04	763.0	72	22.2	82	sw.	6	2.7		5 cs	3 k	sw.	sw.	0.61	15.5	cloudy	C. A. Shaw.
Escanaba, Michigan	29.16	740.7	29.81	757.2	59.5	15.3	72	w.	6	2.7		4c;cs	2 s	s.	s.	0.34	8.0	fair	George Heathcote.
Galveston, Texas	29.99	761.7	30.03	762.7	78	25.6	82	s.	3	1.3		2 cs	6 ks		se.	0	0	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.27	743.4	29.92	760.0	65.5	18.6	84	sw.	5	2.2		5 c	0			0.62	15.7	fair	J. E. Mueller.
Grant, Fort, Arizona	25.27	641.8	29.81	757.2	62.9	17.2	47	n.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.22	767.6	30.24	768.1	76	24.4	85	s.	4	1.8		3 ck	hz.	e.		0	0	clear	R. M. Crawford.
Helena, Montana	25.97	659.6	30.09	764.3	51	10.6	65	sw.	3	1.3			10 s			0	0	cloudy	H. W. Dodge.

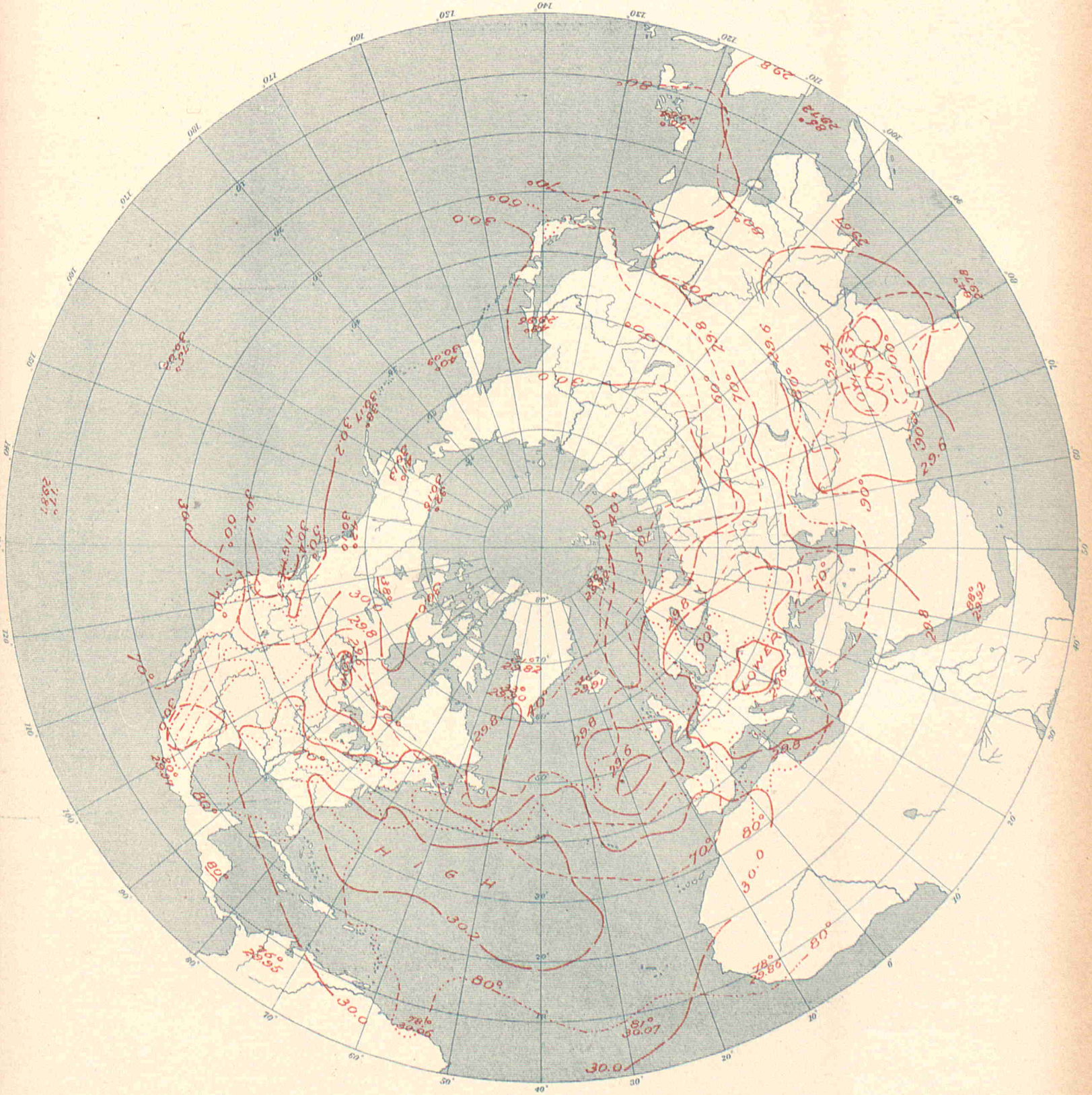
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.48	723.4	29.82	757.4	52.9	11.6	79	w.	13	5.8		3 cs	1 s	w.		0.06	1.5	fair	S. W. Glenn.
Indianapolis, Indiana	29.23	742.4	30.01	762.2	71.0	21.7	82	s.	8	3.6		2 cs	7 ks	w.	sw.	1.01	25.7	threatening.	C. F. R. Wappenhans.
Indianola, Texas	29.96	761.0	29.98	761.5	76.3	24.6	95	s.	6	2.7		4 cs	2 ks	w.	s.	0.02	0.5	fair	I. A. Reed.
Jacksonville Florida	30.14	765.5	30.18	766.6	78.0	25.6	88	se.	3	1.3		3 cs	4 s		e.	0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.54	699.5	29.97	761.2	49	9.4	52	nw.	18	8.0		6 k	0			0	0	fair	W. B. Lamar.
Keokuk, Iowa	29.29	744.0	29.93	760.2	67.0	19.4	84	w.	5	2.2		0	6 s		w.	0.02	0.5	fair	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	79.0	26.1	88	se.	7	3.1		8 cs	2 ks	sw.	se.	0.77	19.6	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.21	767.3	30.23	767.8	74	23.3	90	sw.	11	4.9		3 ck	2 s	w.		0	0	fair	H. Mc P. Baldwin
Knoxville, Tennessee	29.18	741.2	30.19	766.8	66.2	19.0	100	e.	2	0.9			10s;fg			0.16	4.1	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.84	757.9	66	18.9	58	s.	8	3.6		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.19	741.4	30.06	763.5	65	18.3	90	nw.	4	1.8			10 s		sw.	0.29	7.4	cloudy	A. W. Browne.
Lewiston, Idaho	29.32	744.7	30.14	765.5	56.7	13.7	72	e	1	0.4		5 k	5 s	w.	w.	0	0	cloudy	H. S. Blandford.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	72	22.2	90	s.	1	0.4		0	8 n			0.02	0.5	light rain	W. U. Simons.
Los Angeles, California	29.57	751.1	29.96	761.0	61	16.1	84	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.51	749.5	30.06	763.5	74	23.3	82	s.	10	4.5		8 c;ck	2 ks	w.		inap.	inap.	cloudy	L. M Dey.
Lynchburg, Virginia	29.47	748.5	30.14	765.5	76	24.4	69	sw.	1	0.4		2 cs	4 ks	sw.	sw.	0	0	fair	Lou's Duane.
Mackinaw City, Michigan	29.19	741.4	29.83	757.7	61.8	16.6	81	w.	18	8.0		0	8 s		w.	0.62	15.7	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.22	767.6	30.23	767.8	75.0	23.9	97	s.	3	1.3		5 c	0	w.		0	0	fair	William Daly.
Maginnis, Fort, Montana	25.69	652.5	30.02	762.5	43	6.1	47	w.	18	8.0		6 k	0	w.		0	0	fair	F. Burke.
Marquette, Michigan	29.06	738.1	29.78	756.4	62	16.7	60	w.	4	1.8		9 c	0			0.08	2.0	cloudy	J. Gilligan.
Memphis, Tennessee	29.75	755.6	30.08	764.0	73	22.8	90	se.	4	1.8			10 s		s.	inap.	inap.	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.16	740.7	29.90	759.4	69	20.6	61	w.	4	1.8		5ck;cs	0	sw.		0.06	1.5	fair	W. Line.
Missoula, Fort, Montana	26.95	684.5	30.21	767.3	51	10.6	80	n.	2	0.9			10 n			0.11	2.8	light rain	J. H. Young.
Mobile, Alabama	30.10	764.5	30.14	765.5	71.7	22.1	90	ne.	4	1.8			10 s			0.22	5.6	cloudy	C. A. Read.
Montgomery, Alabama	29.89	759.2	30.12	765.0	70	21.1	92	se.	1	0.4			10s;fg		w.	0.33	8.4	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.65	727.7	29.62	752.3	52	11.1	86	w.	20	8.9			10 n		w.	1.77	45.0	light rain	H. White.
Mt. Washington, N. H.	23.97	608.8	30.09	764.3	48.5	9.2	89	nw.	34	15.2			10 s		nw.	0	0	cloudy	S. W. Beall.
Nashville, Tennessee	29.55	750.6	30.11	764.8	73.5	23.1	79	s.	6	2.7		7 ck	0	sw.		0.02	0.5	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.07	763.8	70	21.1	79	sw.	2	0.9		3 c	0			0	0	clear	J. H. Sherman.
New London, Connecticut.	30.06	763.5	30.10	764.5	72	22.2	76	s.	5	2.2		5 c	0	s.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	76.0	24.4	88	e	3	1.3		5 c	0	w.		0.35	8.9	fair	M. Herman.
New York, New York	29.94	760.5	30.11	764.8	71	21.7	90	sw.	5	2.2		5 cs	0	sw.		0	0	fair	G. E. Franklin.
Norfolk, Virginia	30.16	766.1	30.19	766.8	77	25.0	76	sw.	7	3.1		2 cs	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.16	689.9	29.96	761.0	52.6	11.4	78	calm	0	0		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.41	772.4	30.45	773.4	49.0	9.4	77	nw.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.87	733.3	30.01	762.2	59.5	15.3	75	w.	2	0.9		10 cs	0	w.		0.06	1.5	cloudy	A. Pollak.
Ooglaamie, Alaska	30.15	765.8	30.16	766.1	32.0	0.0	89	s.	10	4.5		1 c	0			0	0	clear	P. H. Ray.
Oswego, New York	29.67	753.6	29.99	761.7	70.5	21.4	82	s.	5	2.2		8ck;k	0	sw.		0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.52	749.8	30.06	763.5	70.0	21.1	90	se.	3	1.3		10 cs	0			0.82	20.8	cloudy	J. W. Byram.
Pensacola, Florida	30.10	764.5	30.13	765.3	75.3	24.1	93	ne.	8	3.6		0	2 k		se.	1.26	32.0	clear	M. McGauran.
Philadelphia, Pa	30.02	762.5	30.12	765.0	75	23.9	97	sw.	5	2.2		3 ck	0	sw.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.98	456.7	29.80	756.9	27	— 2.8	84	n.	25	11.2		1 cs	0			0.04	1.0	clear	H. Hall.
Pioche, Nevada	24.24	615.7	30.04	763.0	57.0	13.9	33	n.	11	4.9		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.30	744.2	30.10	764.5	74.0	23.3	74	s.	10	4.5		3 k	0	sw.		0.05	1.3	clear	W. A. Reid.
Poplar River, Montana																			W. D. Maxwell.
Port Huron, Michigan	29.25	742.9	29.92	760.0	66.5	19.2	90	s.	9	4.0		0	0			0.66	16.8	clear	M. H. Perry
Portland, Maine	29.99	761.7	30.04	763.0	66	18.9	68	calm	0	0		3 ck	0	w.		0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.26	768.6	30.33	770.4	58.2	14.6	86	calm	0	0			10 s		nw.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					74	23.3	76	s.	4	1.8		0	3 ks		sw.	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.82	630.4	29.84	757.9	52.0	11.1	47	w.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.03	762.7	30.06	763.5	68.5	20.3	78	sw.	4	1.8		1 c	hz.	w.		0	0	clear	C. N. Kitchel.
Punta Rassa, Florida	30.08	764.0	30.08	764.0	75	23.9	90	e.	5	2.2		10 cs	0	e.		0.09	2.3	cloudy	W. J. Evans.
Red Bluff, California	29.70	754.4	30.04	763.0	74	23.3	40	n.	0	2.7		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.35	745.5	30.00	762.0	70	21.1	84	sw.	11	4.9		5c;ck	hz.	w.		0.07	1.8	fair	E. W. McGann.
Roseburg, Oregon	29.78	756.4	30.34	770.6	50.8	10.4	73	e.	2	0.9		1 cs	0	w.		0	0	clear	J. J. Nanry.
Sacramento, California	29.84	757.9	29.91	759.7	73.0	22.8	55	n.	14	6.3		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	30.00	762.0	69.7	20.9	98	se.	5	2.2			10 s			0.11	2.8	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.10	764.5	30.13	765.3	41	5.0	92	sw.	10	4.5			10 n			0.04	1.0	light rain	A. P. Leavitt.
St. Paul, Minnesota	28.92	734.6	29.76	755.9	58.5	14.7	64	w.	2	0.9		8 k	0	s.		0.09	2.3	cloudy	P. F Lyons.
St. Vincent, Minnesota	28.65	727.7	29.50	749.3	50	10.0	100	w.	5	2.2			10 n			0.27	6.9	light rain	C. B. Dilley
Salt Lake City, Utah	25.84	656.3	30.06	763.5	55	12.8	41	nw.	3	1.3		3 k	0	sw.		0	0	clear	J. Craig.
San Antonio, Texas	29.31	744.5	29.99	761.7	73	22.8	87	calm	0	0		0	0			0.06	1.5	clear	J. H. Davis.
San Diego, California	29.86	758.4	29.93	760.2	61.5	16.4	90	nw.	4	1.8			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	30.02	762.5	30.05	763.3	73.0	22.8	82	sw.	5	2.2		8 k	0	sw.		0	0	cloudy	B. A. Blundon.
Sanford, Florida	30.09	764.3			78	25.6	82	se.	3	1.3		0	9 ks		s.	0	0	cloudy	J. B. Marbury.
San Francisco, California	29.84	757.9	29.91	759.7	81	27.2	32	n.	13	5.8		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.31	592.1	29.82	757.4	68	20.0	15	sw.	2	0.9		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.13	765.3	30.22	767.6	75.5	24.2	90	se.	1	0.4		5 ck	5 ks		se.	0.03	0.8	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.50	673.1	30.07	763.8	47	8.3	66	sw.	7	3.1		3 cs	0	nw.		0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.82	757.4	30.05	763.3	68.0	20.0	93	e.	2	0.9			10 s		e.	2.20	55.9	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.73	729.7	29.93	760.2	66.5	19.2	89	s.	8	3.6		7 c	0			0.01	0.3	fair	W. M. Mattingly.
Sitka, Alaska	30.04	763.0	30.10	764.5	42.2	5.7	65	nw.	3	1.3		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.57	751.1	30.03	762.7	70.0	21.1	84	calm	0	0			10 s		s	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.20	767.1	30.24	768.1	77	25.0	82	se.	3	1.3		4 c	1 k	w.	se.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.18	715.8	30.22	767.6	52	11.1	82	n.	4	1.8		0	3 s			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.27	743.4	29.94	760.5	68.5	20.3	78	sw.	8	3.6			10 s		w.	0.02	0.5	cloudy	T. B. Jennings.
Starkville, Miss	29.07	753.0	30.14	765.5	72	22.2	84	s.	1	0.4			10 s		s.	0	0	cloudy	C. Dill.
Stockton, Fort, Texas	29.93	684.0	29.85	758.2	68	20.0	81	s.	12	5.4		8 ck	0	ne.		0	0	cloudy	A. J. Warren.
Thomas, Camp, Arizona	27.20	690.9	29.83	757.7	60	15.6	46	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.30	744.2	29.98	761.5	73	22.8	82	s.	8	3.6		2 cs	2 k	w.	w.	0.17	4.3	fair	A. Buell.
Tucson, Arizona	27.54	699.5	29.84	757.9	64	17.8	42	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	30.14	765.5	30.17	766.3	38	3.3	82	nw.	6	2.7		0	0			0	0	clear	Samuel Applegate.
Verde, Fort, Arizona					63	17.2	30	w.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.87	758.7	30.12	765.0	73.5	23.1	90	se.	3	1.3			10 s		se.	0.05	1.3	cloudy	James Kenealy.
Visalia, California	29.52	749.8	29.89	759.2	70.0	21.1	62	se.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.61	625.1	29.99	761.7	39.8	4.3	70	sw.	8	3.6		4 cs	0			0	0	fair	T. M. Ambler.
Washington, D. C.	30.04	763.0	30.14	765.5	77.9	25.5	75	sw.	4	1.8		6ck;c	0	sw.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.14	663.9	29.91	759.7	58	14.4	62	ne.	8	3.6		4 k	5 s	w.	e.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.50	749.3	30.10	764.5	70	21.1	81	calm	0	0			fg.			0	0	dense fog	B. F. Hough.
Wilmington, N. Carolina	30.19	766.8	30.24	768.1	76.0	24.4	90	s.	1	0.4		4c;ck	3 k		sw.	0.01	0.3	fair	Samuel A. Haney.
Winnemucca, Nevada	25.86	656.8	30.12	765.0	49	9.4	58	ne.	5	2.2		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.69	728.7	29.97	761.2	58	14.4	65	w.	13	5.8		0	0			0	0	clear	J. H. Attield.
Yuma, Arizona	29.05	753.1	29.79	756.7	71.3	21.8	70	w.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.02	762.5	84	28.9	69	calm	0	0		1 cs	3 s		e.	0.34	8.6	fair	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.6	91	se.			2		8 ks	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.95	760.7	75	23.9	94	calm			0		10 ks		s.	0.01	0.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					80	20.7	90	ne.			1		10 ks		ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	29.96	761.0	30.02	762.5	41.0	5.0	91	sw.	16	7.2		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 44° 06′ E. 15° 13′	29.68	753.9	75	23.9	60	nnw.			1		4	nnw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.29	769.4	74.5	23.6	83	ene.			1		7	ene.						d. clouds.
H. M. S. Flamingo, N. 38° 17′, W. 61° 20′	30.12	765.0	74	23.3	95	w.			5		3	wsw.				3	wnw.	squally.
H. M. S. Gannet, N. 16° 50′, W. 24° 55′	30.08	764.0	75	23.9	72	ne.			3–6		5					2	n.	misty.
H. M. S. Himalaya, N. 35° 06′, E. 19° 09′	29.72	754.9	75	23.9	81	ese.			3		3					4	ese.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.92	760.0	75	23.9	90	nnw.			3-4		1							blue sky.
H. M. S. Minotaur, Vigo Bay, Spain	29.95	760.7	63	17.2	78	s.			3		7	sw.						d clouds.
H. M. S. Opal, St. Vincent, Cape Verd Islands	30.09	764.3	77	25.0	65	nne.			4–6		3	nne.				5	nne.	squally.
H. M. S. Satellite, N. 41° 37′, W. 13° 00′	29.91	759.7	61	16.1	82	sw.			6		5	wsw.				4	wsw.	d. clouds.
H. M. S. Superb, N. 39° 29′, E. 18° 26′*	29.79	756.7	74	23.3	80	s.			3							3	se.	d. clouds.
H. M. S. Tyne, N. 8° 52′, W. 45° 38′	30.01	762.2	81	27.2	87	e.			5		7	e.				4	ene.	d. clouds.
H. M. S. Tenedos, St. Johns, N.F	29.70	754.4	52	11.1	86	w.			1		8	nw.						d. clouds.
U. S. Navy Yard, Portsmouth, N.H.*	30.01	762.2	67	19.4	74	calm	0	0			0			0	0			hazy.
U. S. S. Lancaster, Kronstadt, Russia	29.86	758.4	67	19.4	60	ese.			3		5		ese.			sm'h		fair.
U. S. S. Nipsic, New York, N. Y *	30.05	763.3	71	21.7	90	wsw.			2		8							cloudy.
U. S. S. Portsmouth, Newport, R.I.	30.14	765.5	60	15.6	100	s.			2		5		s.					fair.
U. S. S. Powhatan, Port Royal, S.C.	30.16	766.1	78	25.6	95	e.			1		8		e.					cloudy.
U. S. S. Quinnebaug, N. 3° 58′, W. 5° 46′	30.02	762.5	82	27.8	79	sse.			1		5		sse.			sm'h		fair.
U. S. S. Saratoga, Peekskill, N.Y.	30.12	765.0	74	23.3	86	nne.			1		5?		nne.	0	0	sm'h		clear?
U. S. S. Vandalia, New York, N.Y.	30.10	764.5	71	21.7	95	ssw.			2		8		calm					fair.
S. S. Inchkeith N. 41° 01′, W. 32° 37′	30.07	763.8	61.8	16.6	80	n.			4		4							d. clouds.
H. P. M. S. Rio Lima, Porta Praya, Cape Verd Islands			77.4	25.2	87	ne.			3		0					3	se.	blue sky.
S. S Illinois, Philadelphia, Pa	30.22	767.6	72	22.2		sw.			1		4		wsw.					fine.
S. S. Lord Clive, N. 41° 49′, W. 60° 10′						wnw.			3		4		wnw.	3 h'r	3 h'r	sm'h		fine.
S. S. Lord Gough, N. 40° 16′, W. 54° 18′	30.02	762.5	74	23.3		wsw.			3		10		w	8 h'r	8 h'r	mod.	wsw.	cloudy.
S. S. Ohio, N. 44° 12′, W. 37° 21′ †	30.15	765.8	57	13.9		n.			3		9		ne.	1 h'r	1 h'r	mod.	n.	cloudy.
S. S. Pennsylvania, N. 40° 47′, W. 46° 43′ †	30.13	765.3	65	18.3		w.			1		3			o	o	sm'h		clear.
S. S. Grecian, N. 51° 31′, W. 30° 36′	29.92	760.0	45	7.2	92	n.			5		10		n.	4 h'r	4 h'r	mod.	nnw.	cloudy.
S. S. Prussian, N. 55° 58′, W. 4° 40′	29.89	759.2	61	16.1		ese.			2		4		se.	o	o			
S. S. Manitoban, N. 55° 20′, W. 11° 50′	29.81	757.2	61	16.1	88	ese.			2		5?		se.	o	o	sm'h	se.	clear?
S. S. Sardinian, N. 49° 23′, W. 46° 07′	29.86	758.4	42	5.6		sse.			5		10		sse.	3 h'r	3 h'r	mod.	sse.	raining.
S. S. Jason, N. 49° 27′, W. 22° 55′ †	29.78	756.4	54.5	12.5		se.			2		7 k						s.	gloomy.
S. S. Alvo, Port au Prince, Hayti, W. I*	29.98	761.5	78	25.6		var.			1–2		8		calm	1 h'r	1 h'r			cloudy.
S. S. Andes, N. 18° 34′, W. 75° 40′						e.			2		2		e.	o	c			fine.
S. S. Assyria, N. 47° 48′, W. 29° 12′	29.81	757.2	51	10.6		nnw.			6		10		nnw.	o	o	r'gh	nnw.	overcast.
S. S. Furnesia, Liverpool, Eng †	29.76	755.9	60	15.6	88	ene.			1		2			o	o			clear.
S. S. Elysia, N. 45° 30′, W. 41° 30′	30.10	764.5	60	15.6		se.			3		3		sse.	o	o	sli't	ene.	fair.
S. S. Carroll, Charlottetown, Prince Edward Island			59	15.0	100	nw.			1		10		nw.	rain	rain			foggy.
S. S. Jerome, N. 25° 32′, W. 62° 52′			75	23.9	?	ne.			3		3		ne.	½ h'r	½ h'r	sm'h		clear.
S. S. Llandaff City, N. 47° 06′, W. 33° 41′			54	12.2		n.			6		10		ne.	o	o	high	ne.	cloudy.
S. S. Marathon, Malta, Mediterranean	29.81	757.2	70	21.1		wnw.			6		3		wnw.	o	o	r'gh	wnw.	stormy.
S. S. Pavonia, Staten Island, N.Y.	30.02	762.5	70	21.1	85	calm			0		0			o	o	sm'h		clear.
S. S. Scythia, N. 48° 59′, W. 32° 07′	29.97	761.2	50	10.0	100	nnw.			4		10		nnw.	o	o	mod.	nnw.	cloudy.
S. S. Rhiwindda, N. 50° 53′, W. 25° 30′*†	29.65	753.1	54	12.2		n.			6		7		nne.	rain	rain	cross		rain & fog.
S. S. France, N. 46° 48′, W. 27° 53′ †	29.71	754.7	50	10.0		nnw.			6		10		nnw.	rain	rain	hv'y	n	threatening
S. S. Ville de Marseilles, N. 42° 40′, W. 14° 10′ *	29.83	757.7	56	13.3		wsw.			6		3		sw.	o	o	h'vy	w.	fair
S. S. Arizona, off Galley Head, Ireland	29.72	754.9	56	13.3		s.			2		10		se.			sm'h		misty.
S. S. Wyoming, N. 40° 34′ W. 73° 30′	30.10	764.5	60	15.6		sw.			3		4		ssw.	o	o	long	s.	fair.
S. S. Bohemia, New York, N. Y †	30.14	765.5				w.			2		3		nw.	o	o			fair.
S. S. Gellert, N. 45° 40′, W. 36° 40′	30.19	766.8	57	13.9	81	n.			3		1			o	o	mod.	ne.	clear.
S. S. Rugia, Hamburg, Germany	29.74	755.4	76	24.4		nnw.			3		3		n.	o	o			clear.
S. S. Silesia, N. 39° 14′, W. 38° 30′	30.26	768.6	64.0	17.8		n.			4		2		n.	o	o	3	n.	fair.
S. S. Wieland, N. 45° 37′, W. 37° 58′	30.15	765.8				ene.			2		8		ene.	o	o	sm'h	nw.	fine.
S. S. Mentmore, N. 42° 09′, W. 62° 10′ *†	30.12	765.0				w.			4		2		w.	o	o	mod.	w.	clear.
S. S. Bulgarian, N. 50° 21′ W. 28° 18′*	29.83	757.7				n.			8		10		wsw.	o	o	high	n.	gale.
S. S. Hevelius, N. 7° 00′, W. 29° 00′ †	30.17	766.3	81	27.2		ene.			5		5		ene.	1 h'r	1 h'r	sm'h		fair.
S. S. Ptolemy, N. 20° —′, W. 23° 45′	30.18	766.6	73.6	23.1	74	ne.			6	c	9 s			o	o	5	ne.	misty.
S. S. Colorado, New York, N. Y †	30.20	767.1	65	18.3		ssw.			2		2		ssw.	o	o			clear.
S. S. Rio Grande, N. 32° 00′, W. 78° 20′ *†	30.23	767.8	84	28.9		e.			1		10		se.	2 h'r	2 h'r	mod.	se.	cloudy.
S. S. Chalmette, Algiers, La †	30.20	767.1	77	25.0		ese.			2		2			2 h'r	2 h'r			clear.
S. S. New York, N. 24° 20′, W. 81° 30′*†	30.00	762.0	80	26.7		e.			3		8		e.			mod.	e.	cloudy.
S. S. Hermod, N. 13° 46′, W. 51° 28′ †	30.01	762.2	82	27.8		e.			4		6		e.	o	o	r'gh	e.	fair.
S. S. Alleghany, N. 38° 10′, W. 74° 42′ †	30.18	766.6	70	21.1		sw.			2		0			o	o	light	sw.	hazy.
S. S. Archimede, Genoa, Italy †	29.67	753.6	72	22.2		ene.			2		7		se.	24 h'r	24 h'r	sm'h		fair.
S. S. City of Merida, N. 19° 11′, W. 96° 08′ †	29.97	761.2	81	27.2		n.			1		5		n.	3 h'r	3 h'r	mod.	se.	fair.
S. S. City of Washington, N. 22° 11′, W. 87° 30′ †	30.08	764.0	80	26.7		se.			2		5		se.	o	o	light	se.	fair.
S. S. Denmark, N. 45° 25′, W. 35° 34′ †	30.13	765.3	60	15.6		nnw.			3		5		nnw.	o	o	sli't	nw.	fair.
S. S. England, N. 41° 48′, W. 45° 31′	30.18	766.6	57	13.9		w.			3		10		w.	o	o	mod	w.	overcast.
S. S. Erin, N. 40° 35′, W. 53° 50′	30.07	763.8	69	20.6		w.			6		8		nw.	6 h'r	6 h'r	r'gh	w.	showery.
S. S. Helvetia, Liverpool, Eng	29.82	757.4	66	18.9	89	s.			4		0			o	o			clear.
S. S. The Queen, N. 41° 03′, W. 50° 30′	29.96	761.0	70	21.1	75	sw.			4		10		wsw.	6 h'r	6 h'r	sli't	var.	rainy.
S. S. Braunschweig, N. 45° 00′, W. 38° 32′	30.15	765.8	69.0	20.6	52	e.			4		7		e.	o	o	long	nw.	fair.
S. S. Elbe, N. 41° 59′, W. 50° 58′	29.92	760.0	60	15.6	65	sw.			4		10			3 h'r	3 h'r	mod.	sw.	misty.
S. S. Habsburg, N. 49° 34′ W. 7° 50′	29.77	756.1				ssw.			4		6		sw.	o	o	sm'h	ssw.	fair.
S. S. Hohenzollern, Portland, Eng	29.86	758.4	54	12.2		e.			4		10		e.	5 h'r	5 h'r	light	e.	overcast.
S. S. Ohio, N. 37° 48′, W. 67° 23′	30.26	768.6				w.			2		4		sw.	o	o	sm'h	w.	fair.
S. S. Salier, N. 45° 03′, W. 54° 30′ *	29.74	755.4	43	6.1	75	nw.			4		8		se.	2 h'r	2 h'r	r'gh	sse.	cloudy.
S. S. Strassburg, N. 41° 28′, W. 47° 45′	30.06	763.5	68.5	20.3	90	sw.			4		7		sw.	o	o	3	sw.	fair.
S. S. Werra, N. 49° 31′, W. 15° 39′	29.58	751.2	58	14.4		var.								o	o	sm'h		clear.
S. S. Weser, N. 50° 14′, W. 2° 27′	29.96	761.0				ene.			4		10		e.	½h'r	½h'r	mod.	e.	overcast.
S. S. City of Augusta, New York, N.Y.						sse.			4		5		s.	o	o			fair.
S. S. Colon, New York, N. Y †	30.08	764.0	70	21.1		w.			5				w.	1 h'r	1 h'r			clear.
S. S. Muriel, St. Kitts, W. I.	30.16	766.1	83	28.3		e.			2		10		e.	o	o	sm'h		overcast.
S. S. Orinoco, Hamilton Bermuda, Atlantic †	30.38	771.6	79	26.1		calm			0		8			o	o			cloudy.
S. S. Rhynland, N. 50° 35′, W. 0° 30′	29.83	757.7	59	15.0	94	e.			3		3		se.	o	o			clear.
S. S. Pennland, N. 40° 40′, W. 52° 07′	30.12	765.0	68	20.0	95	sw.			6		8		sw.	4 h'r	4 h'r	mod.	sw.	squally.
S. S. Switzerland, N. 41° 03′, W. 56° 20′ †	30.09	764.3				w.			5		10		w.	o	o	r'gh	w.	cloudy.
S. S. Waesland, N. 48° 01′, W. 24° 28′	29.63	752.6	55	12.8		nw.			6		10		nw.	11 h'r	11 h'r	r'gh	nw.	drizzling.
S. S. P. Caland, Jersey City, N. J	30.11	764.8	73.6	23.1	91	sw.			2		6		sw.					fair.
S. S. Rotterdam, N. 45° 12′, W. 37° 02′	30.17	766.3	62	16.7	63	ne.			3		2		ne.	o	o	2	ne.	clear.
S. S. W. A. Scholten, Rotterdam, Holland	29.77	756.1	66.8	19.3	57	ene.			5		2		e.	o	o			clear.
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	79.5	26.4	89	n.			1				ene.	3 h'r	3 h'r	r'gh	nne.	hazy.
S. S. State of Georgia, N. 46° 07′, W. 40° 23′ †	30.20	767.1	60	15.6		se.			4		0			o	o	sli't	ne.	clear.
S. S. State of Indiana, N. 52° 35′, W. 32° 00′*†	29.86	758.4	46	7.8		n.			4		8		n.	4 h'r	4 h'r	sm'h		cloudy.
S. S. State of Nevada, N. 41° 15′, W. 64° 37′ †	30.17	766.3	57	13.9		w.			5		fg.		sw.	8 h'r	8 h'r	mod.	sw.	dense fog.
S. S. Thingvalla, N. 53° 57′, W. 28° 32′ †	29.90	759.4	45.5	7.5		nw.			4		10		nw.	10 h'r	10 h'r	r'gh	nw.	overcast.
S. S. Romano, N. 49° 19′, W. 9° 47′ †	29.73	755.1	60	15.6		s.			5		5		s.	o	o	mod.	s.	fair.
S. S. Oregon, Liverpool, Eng	29.75	755.6	50	10.0		se.			4		9		ene.			light		hazy.
S. S. Olbers, N. 7° 47′, W. 26° 27′ †	30.04	763.0	84	28.9	83	ese.			4		5		se.	o	o	mod.	var.	fair.
S. S. Daniel Steinmann, N. 50° 08′, W. 11° 30′ †	29.63	752.6	62	16.7		ssw.			3		0			1 h'r	1 h'r	light	se.	clear.
S. S. Norman, N. 42° 25′, W. 70° 54′						ssw.			1		0			o	o			clear.
S. S. Saxon, Philadelphia, Pa †	30.13	765.3				w.			4		3		w.	o	o			clear.
S. S. Adriatic, N. 48° 12′, W. 31° 03′ *†	30.08	764.0	51	10.6		nnw.			6		10		nnw.			mod.	nnw.	raining.
S. S. Baltic, N. 44° 00′ W. 46° 06′ *	29.96	761.0	50	10.0	88	s.			3		10		w.	4 h'r	4 h'r	mod.	ssw.	showery.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Britannic, N. 47° 40′, W. 37° 41′†	30.20	767.1	52	11.1		w.			2		2		nw.	0	0	sm'h	n.	clear.
S. S. Celtic, Queenstown, Ireland †	29.74	755.4	65	18.3		se.			4		10		s.	2 h'r	2 h'r	sm'h		overcast.
S. S. Iowa, N. 42° 32′, W. 58° 36′ †	29.98	761.5	58	14.4		w.			5		9		w.	2 h'r	2 h'r	light	w.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.10	764.5	66.5	19.2	71	wnw.			2		5			0	0			fair.
Schr. Abbie H Gheen, Jacksonville, Fla†	30.30	769.6	79	26.1		e.			1									clear.
Bk. Aquidneck, N. 37° 16′, W. 68° 54′*†	30.30	769.6				s.			3		0			0	0	light	se.	clear.
Bg. Alcira, N. 25° 50′, W. 74° 16′	30.19	766.8	81	27.2		ene.			6		8		ene.			mod.	ene.	hazy.
Sch. Anna A. Holton, N. 38° 39′, W. 72° 29′*†	30.20	767.1	69	20.6		sw.			4				ssw.	0	0	sm'h	ssw	clear.
Schr. Arthur Burton, N. 31° 14′, W. 80° 40′ †	30.25	768.3				e.			1		2		e.	0	0	mod.	e.	fine.
Bk. Aureola, N. 38° 18′, W 47° 22′ †	30.30	769.6	73	22.8		w.			2		9		w.	0	0	sm'h		gloomy.
Bk. Arda, Sackville, N. B†	30.10	764.5				wsw.			3		4		wsw.	0	0			fair.
Bk. Alba, N. 44° 51′, W. 51° 51′*†	29.80	757.0	48.2	9.0		wsw.			3					0	0			
Bgt. Achsah, N. 41° 00′, W. 69° 33′†	30.03	762.7	61	16.1		wsw.			2		0			0	0	mod.	var.	foggy.
Bg. Belle of the Bay, Galveston, Texas†	30.02	762.5				e.			2		5		ese.	0	0			fair.
Schr. C. R. Flint, N. 24° 10′, W 84° 52′ †..	30.06	763.5	80	26.7		se.			1		5		se.	2 h'r	2 h'r	sm'h		fair.
Bk. Childwall, N. 46° 14′, W 19° 30′			56	13.3		wsw.			4		8		w.	0	0	sm'h		fine.
Bk. Cato, Bodöe, Norway*†	30.00	762.0				nne.			4									
S. Criterion, N. 48° 16′, W. 36° 48′ *†	30.00	762 0				n.			2		4		e.	0	0	long	e.	fine.
Schr. Clotilde, Tampico Bar, Mexico *†	29.93	760.2	81	27.2		se.			1		0			2 h'r	2 h'r	rg'h	se.	clear.
S. David Stewart, N. 14° 34′, W. 32° 43′†	30.04	763.0				ene.			6		5		ene.	8 h'r	8 h'r	mod.	ene.	
S.S.D. J. Foley, N. 21° 12′, W. 74° 12′*†	30.05	763.3	82	27.8	83	e.			3		3		e.	0	0	long	ene.	clear.
Bkt. David A. Preston, Navassa, W. I						e.			6		2		e.	0	0	long	se.	
S. E. J. Spicer, N. 50° 01′, W. 21° 20′	29.51	749.5	61	16.1	94	ene.			3		7		ene.	0	0	mod.	nne.	fair.
Bk. E. D. Bigelow, N. 50° 48′, W. 8° 45′ *†	29.70	754.4	65	18.3		se.			2		8		sse.	1 h'r	1 h'r	sm'h		misty.
U. S. Fish. Com. S. S. Fish Hawk, Upper Cedar Pt., Md†	30.18	766.6	75	23.9	90	sw.			2		8		sw.	0	0			cloudy.
Schr. F. E. Waters, Chesapeake bay *†	30.30	769.6				sse.			1				sse.	0	0			fair.
Bk. George Davis, N 55° 19′, W. 7° 56′						e.			6					0	0	short	e.	smoky.
Bgt George, N. 36° 15′, W. 72° 30′ *†	30.27	768.8	73	22.8		nnw.			1		2			0	0	mod.	se.	clear.
Bk. Galeon, N. 21° 24′, W. 89° 40′ †	29.98	761.5	80	26.7		e.			3		5		se.	0	0	sm'h	ene.	blue sky.
Bk. Heinrich & Tonio, N. 49° 03′, W. 13° 13′†	29.60	751.8	72	22.2		ssw.			4		2		ssw.	3 h'r	3 h'r	light	nw.	fair.
S. Hedwig, N. 37° 40′, E. 5° 48′	29.88	758.9	71.1	21.7	88	w.			6		1		w.	0	0	4	w.	
Bk. Hattie G. McFarland, Port Royal, S. C†	30.20	767.1	77	25.0		calm			0		10		ne.	0	0			misty.
Bk. Johanne, N. 42° 00′, W. 12° 13′*†	29.86	758.4	64	17.8		wsw.			4		2		sw.	0	0	mod.	sw.	clear.
Schr. John L. Thomas, N. 17° 40′, W. 82° 55′*†	30.00	763.5				ese.			2		3		ese.	6 h'r	6 h'r	mod.	se.	squally.
Bg. John Wesley, N. 33° 45′, W. 53° 39′ *†	30.29	769.4	75	23.9		ese.			1		0			0	0	long	se.	clear.
Schr. Jennie N. Huddell, Charleston Bar, S. C†	30.19	766.8	81	27.2	91	ese.			1		10		sse.	1 h'r	1 h'r	long	se.	cloudy.
Bkt. Kryolith, Ivigtut, Greenland *†	29.78	756.4				nw.			6		2		nw.	0	0			clear.
Bg. L. & W. Armstrong, N. 38° 06′, W. 70° 00′ *†	30.30	769.6				sw.			2		0			0	0	sm'h	sse.	clear
Light House Tender, Laurel, Cape San Blas, Fla †	30.11	764.8	78	25.6		e.			2-3		6		se.	0	0			fair.
Bg. Lilian, N. 30° 30′, W. 71° 45′†	30.31	769.9	82	27.8		se.			2		1		sse.	0	0	mod.	se.	clear.
Bk. Louise Adelaide, Havana, Cuba, W. I†	30.06	763.5	77	25.0		s.			1		10		se.	4 h'r	4 h'r			cloudy.
Bk. Milo, N. 44° 14′, W. 31° 56′ †	30.00	762.0				n.			6				n.			short	nw.	fine.
S. S. Madrid, Point Porman, Spain†	29.99	761.7	70	21.1	80	sw.			5		1		ssw.	0	0	mod.	sw.	fair.
Schr. Minnie A. Bonsall, Hoboken, N. J†	30.12	765.0	79	26.1		w.			2				se.	0	0			clear.
Bk. Matilda C. Smith, N. 47° 00′, W. 19° 30′†	29.53	750.0				nw.			2		4		nw.	12 h'r	12 h'r	sm'h	wnw.	fair.
Bgt. Myrtle, Barbadoes, W. I *†	30.11	764.8				e.			5		2		e	0	0			fair.
Bk. Matthias, N. 49° 00′, W. 9° 08′			60	15.6		s			3		5		ssw.	0	0	sm'h		hazy.
Schr. Maggie Abbott, N. 23° 54′, W. 73° 26′†	30.13	765.3				se.			6		4		sse.	4 h'r	4 h'r	mod.	se.	clear.
Bk. National Eagle, N. 37° 52′, W. 44° 01′						w.			2		2		nw.	0	0	sm'h		clear.
Bg. O. C. Clary, N. 35° 29′, W. 67° 38′ *†	30.28	769.1				sw.			2		0					sm'h	se.	clear.
Bk. Ottawa, N. 48° 55′, W. 7° 05′	29.79	756.7	61	16.1		sw.			3		3		sw.	5 h'r	5 h'r	short	e.	clear.
S. Paramita, N. 11° 10′, W. 34° 27′†	29.99	761.7	78	25.6		ne.			6		2		ne.	sh'rs	sh'rs	long	nne.	clear.
S. S. Raleigh, off Castle Island, W. I†	30.12	765.0	78	25.6		ene.			4		2		ene.	0	0	sm'h		clear.
Bg. Rising Sun, N. 17° 23′, W. 60° 39′ †	30.10	764.5	75	23.9		e.			4		10		e.	0	0	mod.	e.	cloudy.
Bk. Rosino, N. 40° 22′, W. 31° 17′			63	17.2		n.			5		4		ne.	0	0	mod.	nw.	fair.
Bk. Sunbeam, N. 39° 28′, W. 51° 55′ †	30.22	767.6	70	21.1	85	sw.			7		10		sw.	0	0	sm'h		cloudy.
Bk. Southern Belle, N. 27° 14′, W. 38° —†	30.32	770.1	74	23.3		ene.			2		0			0	0	mod.	se.	clear.
S Sovereign of the Seas, N. 38° 56′, W. 63° 37′..			71	21.7	90	w.			3		4		w.	0	0	sm'h	sw.	hazy.
Bk. Usko, Brighton, Eng*	29.75	755.6	53	11.7	93	ene.			5		5		e.	0	0	mod.	ene.	fair.
Bkt. Wandering Jew, Matanzas, Cuba *†	30.10	764.5	78	25.6		se.			3		0		se.	3 h'r	3 h'r			fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay †	30.25	768.3	53.2	11.8	98	nw.			3		4		n.			1	n.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.16	766.1	62	16.7		calm			0		9							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata	30.18	766.6	53.2	11.8	95	nw.			3		7		calm					d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.22	767.6	51	10.6	93	n.	8	3.6			8		calm	0	0	sm'h		fair.
U. S. S. Galena, Montevideo, Uruguay*	30.21	767.3	51	10.6	86	nnw.			2		8					sm'h		fair.
Bk. Horace Scudder, S. 2° 50′, W. 32° 18′ *†	30.12	765.0	83	28.3		ese.			3		4		se.	0	0	light	s.	fine.
S. Wm. McGilvery, S. 22° 30′, W. 37° 36′ *†	30.15	765.8	75	23.9	68	ssw.			3		5		ssw.	0	0	h'vy	sw.	
May Hulse, S. 20° 45′, W. 26° 00′	30.09	764.3	74	23.3	90	w.			3		10							raining.
Bk. Achille F., S. 7° 30′, W. 29° 30′ †	30.05	763.3	83	28.3	67	ese.			6		9			3 h'r	3 h'r	mod.	se.	cloudy.
Bk. Alpheus Marshall, S. 21° 30′, E. 3° 59′*†	30.07	763.8				se.			1		9		se.	0	0	st'g	w.	cloudy.
Bk. Ceylon, S 32° 20′, E 12° 33′ *†	30.18	766.6	70	21.1	85	nnw.			3		9		ssw.	slt't	slt't	long	w.	cloudy.
S. Dynomene, S. 27° 08′, E. 12° 30′	30.10	764.5	67	19.4	84	sse.			3		3			0	0	mod.	wsw.	clear.
Bk. Adelaide, S. 8° 29′. W. 31° 50′ *†	30.14	765.5	81	27.2		ese.			6		10		se.	11 h'r	11 h'r	r'gh	se.	raining.
H. P. M. S. Duque de Terceira, Mossamedes, Beng'la..	30.09	764.2	65.1	18.4	71	w.			2		10			0	0	1	sw.	overcast.
District No. 3—North Pacific.																		
H. M. S. Audacious, Kin Foau Beacon, China	29.87	758.7	78	25.6	73	se.			2		1	sse.						blue sky
H.M S. Champion, Labuan Island, Borneo	29.70	755.9	84	28.9	92	calm			0		5							d. clouds.
H. M. S. Flying Fish, N. 37° 00′, E. 126° 00′	29.90	759.4	60	15.6	91	s.			1		7							d. clouds.
H. M. S. Magpie, N. 5° 16′, E. 115° 15′	29.84	757.9	84.5	29.2	83	calm			0		3							d. clouds.
H. M. S. Sheldrake, N. 8° 00′, E. 117° 04′			82	27.8		calm			0		3							d clouds.
H. M. S. Zephyr, N. 34° 41′ E. 135° 12′	29.90	759.4	69	20.6	75	e.			1		1							blue sky
H. P. M. S. Tamega, Macao, China	29.82	757.4	80.6	27.0	77	e.			4		4							d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.97	761.2	56	13.3	90	nnw.			1		8		w.	0.60	15.2			cloudy
U. S. S. Adams, Juneau City, Alaska†	30.19	766.8	47	8.3	85	e.			1		5					sm'h		fair.
U. S. S. Essex, N. 6° 56′, W. 135° 44′	29.87	758.7	77	25.0	91	ssw.			3		10		sw.			sm'h	sw.	overcast.
U. S. S. Hartford, Honolulu, Sandwich Ids *	30.02	762.5	75	23.9	86	var.			1		5			0	0			fair.
U. S. S. Monocacy, Salee river, Corea	29.89	759.2	62	16.7	83	w.			2		10		n.					misty.
U. S. S. Palos, Hong Kong, China	29.70	754.4	80	26.7	74	e.			4		10		e.					cloudy.
U. S. S. Richmond, N. 22° 18′, W. 114° 53′*	29.70	755.9	78	25.6	91	ene.			5		8		ene.	0	0	mod.	ne.	cloudy.
S. S. Arabic, N. 46° 15′, E. 171° 27′			40	4.4	82	ne.			4		5		ene.	0	0	light	ene.	fair.
S. S. Oceanic, N. 31° 11′, E. 132° 47′	30.00	762.0	74	23.3	76	se.			3		4		se.			light	var.	fair.
S. S Oregon, Portland, Oregon †	30.42	772.7	63	17.2	94	calm			0		5		nw.					fair.
S. S. Ancon, N. 35° 28′, W. 121° 10′†	29.92	760.0	56	13.3	87	se.			1		0					mod.	wnw.	hazy.
S. S. City of Chester, San Francisco, Cal†	29.96	761.0	78	25.6	61	ne.			2		0							clear.
S. S. Dakota, Seattle, Wash. Ter.†	30.39	771.9	58	14.4	82	calm			0		8		sw.			sm'h	nw.	cloudy.
S. S. Queen of the Pacific, N. 41° 50′, W. 124° 30′†	30.18	766.6				nnw.			7		0			0	0	long	nw.	clear.
S. S. City of Rio de Janeiro, Yokohama, Japan	29.99	761.7	59	15.0	82	n.			1		8		n.	0.2	5.	sm'h		cloudy.
S. S. Colima, N. 22° 53′, W. 109° 37′ †	29.96	761.0	64	17.8	89	wnw.			4		7		sw.	0	0	small	wnw.	fair.
S. S. Granada, N. 12° 58′, W. 88° 01′†	29.93	760.2	87	30.6	58	nnw.			3		7		ne.	2 h'r	2 h'r	sm'h	n.	fair.
S. S. San Blas, Panama, Panama			79	26.1		var.			1		9		sw.	2 h'r	2 h'r			cloudy.
S. S. Zealandia, N. 26° 37′, W. 149° 21′			76	24.4	91	e.			4		8		ene.			mod.	ene.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Benledi, N. 34° 00′, E. 132° 15′ *	29.87	758.7	67	19.4	79	ssw.			3–4		5		wsw.	0	0	sm'h		fair.
S. S. Radnorshire, Yokohama, Japan*†	29.86	758.4				nne.			6		10		nne.	12 h'r	12 h'r			rainy.
S. Sacramento, N. 13° 30′, E. 120° 00′*†	29.90	759.4	82	27.8	83	ssw.			6		10		sw.	4 h'r	4 h'r	mod.	sw.	squally.
S. St. David, N. 5° 00′, E. 106° 03′ *†	29.82	757.4	85	29.4	87	var.			3		7		s.	½ h'r	½ h'r	light	s.	hazy.
Bk. Xenia, Shanghai, China			70	21.1		sse.			3					0	0			clear.
H. M. S. Sappho, N. 16° 50′, W. 99° 52′	29.97	761.2	80	26.7	100	calm			0		3	wnw.						d. clouds.
U. S. S. Ranger, San Jose, Gautemala	29.92	760.0	80	26.7	?	nne.			2		10			0	0	long	sse.	cloudy.
S. Henry Failing, N. 35° 25′ W. 123° 50′ †	29.85	758.2	60	15.9		se.			2		fg.			0	0	long	nw.	foggy.
S. Grecian, Yokohama, Japan †	29.91	759.7	62	16.7	88	n.			4		4		n.	12 h'r	12 h'r			fair
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W *†	30.41	772.4	55	12.8	74	sw.			1		2	sw.						d. clouds.
H. M. S. Espiegle, S. 1° 12′, E. 174° 39′	29.67	758.7	81	27.2	78	ene.			1		0							blue sky.
H. M. S. Kingfisher, S. 26° 47′, W. 126° 23′	29.91	759.7	69	20.6		nnw.			3		7					2	nw.	d clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.69	754.1	73	22.8	95	nne.			1		0							blue sky.
U. S. S. Iroquois, Valparaiso, Chili	30.04	763.0	54	12.2	93	calm			0		10							foggy.
U. S. S. Lackawanna, S. 23° 29′, W. 93° 13′ *	29.99	761.7	69	20.6	80	nw.			4		2		n.			sm'h	n.	clear
U. S. S. Onward, Callao, Peru†	30.12	765.0	63	17.2	89	se.			3		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.98	761.5	63	17.2	94	se.	8	3.6			10		se.	0	0			misty.
U. S. S. Wachusetts, S. 18° 40′, W. 152° 13′*†	30.06	763.5	76	24.4	91	e.			3		8		se.			mod.	sw.	cloudy.
S. S. Australia, Sydney, N. S. W	29.99	761.7	59	15.0	94	nw.			2		2		w.	0	0			clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.90	759.4	82.3	27.9	81	calm			0		3					sm'h		d. clouds.
S. S. City of Sydney, Sydney, N. S. W*†	30.25	768.3	55	12.8	81	w			2		2 ck;s		sw.					clear.
S. S. Gordon Castle, S. 21° 32′, E. 150° 11′ *	30.13	765.3	69.0	20.6	80	sse.			3–4		0							clear.
Bk. Chas. Stewart, S. 33° 10′, E. 155° 00′†	30.21	767.3	64	17.8		sse.			4		2		s.	0	0	mod.	var.	clear.
Bk. Edmund Phinney, Pisagua, Peru*†	30.06	763.5				ene.			1		4			0	0	light	w.	hazy.
S. Parker M. Whitmore, S 53° 47′, W. 86° 00′ *†	29.10	739.1	41	5.0		w.			5		5		w.	2 h'r	2 h'r	long	wnw.	squally.
S. Storm King, S. 52° 19′ W. 80° 20′ *†	29.36	745.7				w.			4		5		w.	1 h'r	1 h'r	r'gh	w.	fair.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	29.99	761.7	81	27.2		se.			3		2	sse.				3	sse.	d. clouds
H. M. S. Tourmaline, N. 5° 55′, E. 80° 10′	29.78	756.4	84	28.9	83	w.			4		3	w.				1	sw.	misty.
U. S. S. Enterprise, S. 24° 56′, E. 42° 46′ *	30.06	763.5	73	22.8	67	w.			5		5		w.			long	ene.	fair.
U. S. S. Juniata, N. 17° 40′, E. 71° 51′	29.66	753.4	84	28.9	96	sw.			5		10		calm	mod.	mod.	mod.		cloudy.
S. S. Galatia, N. 15° 30′, E. 41° 56′*†	29.72	754.9	88	31.1		w.			2		0			0	0	sm'h		clear.
S. S. Malabar, Bassein, India*†	29.67	753.6				sw.			4		5		sw.	12 h'r	12 h'r	sm'h		raining.
S. Annie M. Law, S. 34° 44′, E. 25° 11′ *†	30.20	767.1	68	20.0		sw.			2		4		s.	0	0	long	ssw.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 7, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.00	761.9	73.4	23.0	87	n.			1		0			0	0	clear	Malaterre.
Algiers			29.94	760.4	75.2	24.0	29	nne.			2		0			0	0	clear	Thève.
La Galle			29.89	759.3															Fonfrède.
Tunis			29.87	758.7															Jacques.
Saida			30.02	762.5															Pérès.
Tebessa			29.96	761.0	77.0	25.0	28	n.			1		0			0	0	clear	St. Martin.
Geriville					86.0	30.0	11	nw.			5		0			0	0	clear	Forfert.
Laghouat			29.97	761.2	87.1	30.6	15	e.			1		0			0	0	clear	Abraham.
Biskra			29.91	759.7	89.2	31.8	32	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.47	773.9	49.2	9.6	92	calm	0	0			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.34	770.6	30.43	772.9	53.5	11.9	82	ssw.	4	1.8			9			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.10	739.1	29.62	752.3	77.4	25.2	50	sw.			3		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.97	735.7	29.70	754.4	71.6	22.0	59	ne.	3.1	1.4			8			0.165	4.2		Dr. Wierzbieki
Eperies	28.81	731.8	29.65	753.0	73.8	23.2	73	calm			0	cs	8 s			2.110	53.6	thund'rst'm	Julius Mikolik.
Gratz	28.47	723.1	29.68	753.8	65.5	18.6	87	e.			3		8			0	0	lightning	Andreas Rospini.
Hermannstadt	28.27	718.0	29.59	751.6	81.7	27.6	46	s.			3		5			0.098	2.5		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.38	720 9	29.67	753.5	68.7	20.4	65	nw.			1		7			0	0	heavy cl'ds.	The Staff.
Lemberg	28.74	730 1	29.69	754.0	71.1	21.7	70	w.			3		10			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.58	751.3	29.69	754.0	70.9	21.6	68	wnw.			5		2			0	0		I. R.Hydrographic Office.
Szathmar	29.19	741.4	29.63	752.6	79.5	26.4	69	s.			3		7			0.087	2.2		Joseph Midlinszky, S. J.
Szegedin	29.37	746.0	29.63	752.7	73.4	23.0	71	se.			3		10			0.453	11.5	lightning	Karl Stancel.
Trieste	29.59	751.6	29.69	754.1	74.1	23.4	56	sw.			1		2			0	0		Royal Academy.
Vienna	29.04	737.6	29.74	755.3	65.1	18.4	76	nw.			2		9			0.724	18.4	thund'rst'm	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.72	754.9	29.82	757.4	51.7	10.9	60	nnw.	10	4.5			10			blank	blank	overcast	W. Boswell.
Armagh, Observatory	29.53	750 0	29.76	755.9	53.0	11.7	95	se.	5	2.2			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.75	755.6	55.5	13.1	73	ese.	12	5.4			10					overcast	John Hartnup.
Bolton, Sharples	29.22	742.2	29.75	755.6	55.3	12.9	68	ene.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.39	746.5	29.78	756.4	51.8	11.0	63	e.			1		10			0	0	overcast	McLandsborough&Preston.
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	83.0	28.3	71	ne.			3		3					d. clouds	Corpl. W. I. Cull, A. H.C.
Cardington	29.69	754.1	29.80	756.9	54.0	12.2	89	w.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	29.63	752.6	29.76	755.9	54.6	12.6	86	ne.			1		10					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.54	750.3	29.76	755.9	65.0	18.3	58	ssw.			1		5					d. clouds	The Staff.
Fort Napier, Natal	27.77	705.3	29.99	761.7	71.0	21.7	29	e.			1		7					d. clouds	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	80.0	26.7	96	se.			1		3					d. clouds	J. W. Smith.
Galway, Queen's College	29.63	752.6	29.66	753.4	63	17.2	72	se.			1		4			0.04	1.0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.92	760.0	29.98	761.5	70.8	21.6	83	w.			4		3					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.60	751.8	29.80	756.9	52.8	11.6	61	ene.			4		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.60	751.8	29.77	756.1	54.7	12.6	83	n.			1		10					overcast	The Staff.
Guernsey	29.49	749.0	29.79	756.7	55.5	13.1	94	nnw.			1		10					foggy	A. Collenette, F. M. S.
Kew, Observatory	29.74	755.4	29.78	756.4	52.6	11.4	81	ne.	0	0			10					misty	The Staff.
Leicester, Museum	29.51	749.5	29.76	755.9	51.0	10.6	84	ne.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.81	757.2	29.88	758.9	75.0	23.9	97	w.										blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.08	764.0	30.12	765.0	83.2	28.4	72	e.			2		6					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.26	743.2	29.78	756.4	49.6	9.8	87	ne.			1		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.56	750.8	29.78	756.4	51.0	10.6	84	ene.			1		10					overcast	The Staff.
Plymouth	29.69	754.1	29.76	755.9	62.0	16.7	82	s.			3		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.73	755.1	29.83	757.7	49.5	9.7	77						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.64	752.8	29.70	754.4	89.0	31.7	39	se.			1		2			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.51	749 5	29.79	756.7	52.1	11.2	81	ne.			1		10			0.01	0.3	overcast	W. F. Cooper.
Silloth Rectory	29.74	755.4	29.77	756.1	54.8	12.7	71	e.			3		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.78	756.4	50.0	13.3	57	e.	8	3.6			10					misty	W. C. Carlisle.
Truro, Royal Institution	29.73	755.1	29.82	757.4	68	20.0	69	nw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.67	753.6	29.70	754.4	63.6	17.6	70	se.	21	9.4			6			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.54	750.3	29.94	760.5	72.0	22.2	55	w.	18.6	8.3						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.97	761.2	30.01	762.2	58	14.4	85	se.	12	5.4		0	2 s		se.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.93	760.2	29.99	761.7	50	10.0	93	e.	1	0.4			10 s		e.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.51	749.5	29.69	754.1	70.0	21.1	88	w.			3		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.91	759 7	29.96	761.0	44.5	6.9		e.			4		10 n					raining	H. A. Johnson.
Father Point, Quebec*	29.71	754.6	29.74	755.4	58	14.4	90	sw.	20	8.9		5c; s	2 k;s	calm	calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.89	733.8	29.71	754.6	51	10.6	93	nw.	6	2.7		0	8 cs		nw.	0.01	0.3	cloudy	James Stewart.
Fredericton, N. B	29.89	759.2	29.96	761.0	55.0	12.8	88	e.	1	0.4			10			trap.	trap.	dense mist.	Prof. Harrison, L. L. D.
Granton, Ontario	28.79	731.3	29.86	758.4	61.0	16.1	94	w.	2	0.9			10 n			0.51	13.0	cloudy	Jas. Grant.
Halifax, N. S*	29.93	760.2	30.06	763.5	52	11.1	86	nw.	10	4.5		10 k	0			0	0	cloudy	A. Allison.
Hamilton, Ontario	29.38	746.2	29.76	755.9	63.2	17.3		sw.			1	2 ck	0	sw.		0.10	2.5	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.45	748.0	29.78	756.4	58	14.4	93	sw.	5	2.2			10 ks		sw.	trap.	trap.	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.07	763.8	30.11	764.8	52.4	11.3	78	sw.			1	8 ks	0	sw.				rainy	C. H. Rigby.
London, Ontario	28.95	735.3	29.82	757.4	64.5	18.1	93	sw.			1		10 n			0.33	8.4	overcast	E. B. Reed.
Montreal, Quebec*	29.52	749.8	29.72	754.9	70	21.1	82	sw.	11	4.9			10 ks		w.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.47	748.5	29.70	754.4	68.8	20.4	86	s.			1	6 cs	0			0	0	fair	A. McGill, M. A.
Parry Sound, Ontario*	29.05	737.9	29.72	754.9	62	16.7	72	sw.	6	2.7		2 cs	0	s.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.05	737.9	29.75	755.6	68.0	20.0	85	w.			1	6 c	0	sw.		0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.15	740.4	29.83	757.7	61	16.1	94	calm	0	0			10 n			0	0	hazy	H Morgan.
Port Stanley, Ontario	29.26	743.2	29.89	759.2	60	15.6	93	sw.	6	2.7			fg			0.03	0.8	foggy	M. Payne.
Quebec, Quebec*	29.40	746.7	29.75	755.6	51	10.0	100	ne.	8	3.6			10 n		sw.	0.11	2.8	foggy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.24	742.7	29.68	753.9	62	16.7	90	calm	0	0		0	8 s		sw.	0.10	2.5	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.87	758.7	29.92	760.0	55	12.8	83	se.	8	3.6			10 n			0	0	cloudy	
St. John, N. B	29.77	756.1	29.93	760.2	62.0	16.7	72	se.	5	2.2		5 ck	0			0	0	d. clouds	G. Murdock, C. E.
Saint John's, N. F	29.80	758 4	30.12	765.0	38	3.3	90	se.			2		10 n			0.24	6.1	foggy	J. Higgins.
St. Pierre, N. F			30.08	764.0	39.2	4.0		ne.			6					0	0		The Commandant.
Saugeen, Ontario*	29.04	737.6	29.73	755.1	61	16.1	75	sw.	20	8.9		2 cs	0			0.10	2.5	clear	
Stratford, Ontario	28.57	725.7	29.81	757.2	61.5	16.4	94	sw.	2	0.9		1 c;cs	3 s		sw.	0.522	13.3	blue sky	C. J. Macgregor, M A.
Sydney, C. B*	30.08	764.0	30.14	765.5	50	10.0	83	s.	8	3.6		10 k	0	s.		0.02	0.5	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.43	747.5	29.80	756.9	60	15.6	96	sw.	7	3.1			10 s		sw.	0.20	5.1	cloudy	Magnetic Observatory.
Windsor, N. S	29.89	759.2	29.98	761.5	63.0	17.2	72	s.	9	4.0			9 ks			0	0	d. clouds	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.70	729.0	29.72	754.9	65.7	18.7	92	sw.	10	4.5		7 cs	0	w.		0.11	2.8	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.88	758.9	29.94	760.5	55	12.8	93	se.	9	4.0			10 s		se.	0.04	1.0	light rain	Lt. F. L. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction Upper.	Clouds. Direction Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CAPE COLONY.																			
Cape St. Francis Lt. House	29.92	760.0	29.95	760.7	80.0	26.7	31	nw.	7.7	3.4		0	9 s			0	0	clear	John Duthie
Springbok Fontein	28.07	713.0			65	18.3	35	e.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Guelny.
Tchang-kia-tchouang	29.73	755.1	29.84	757.9	76.8	24.9	60	ne.			3		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.91	759.7	29.93	760.3	70.3	21.3	83	se.	15.7	7.0		0	0			0	0	clear	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.67	753.6	29.72	754.8	67.6	19.8	37	s.	13	6			1						Oversergent Fischer.
Fanoe	29.72	754.9	29.74	755.4	54.1	12.3	63	wnw.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.78	756.3	29.82	757.4	33.8	1.0	80	ssw.			2–4		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.79	756.7	29.84	757.9	34.2	1.2		n.			2		3						
Stykkisholm, Iceland	29.74	755.4	29.78	756.5	45.7	7.6	88	calm			0		8						A. O. Thoriacius.
Thorshavn	29.91	759.6	29.93	760.2	49.3	9.6	86	e.	18	8			3						Overloerer Bergh.
Vestervig	29.63	752.7	29.74	755.0	52.9	11.6	61	wsw.			4		4						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.78	756.4			91.8	33.2		e.	6.7	3.0		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.26	743.2	29.89	759.2	65.8	18.8	90	nw.			1		10 n			0.370	9.4	raining	M. Labroue, Director.
Alençon, Normal School	29.24	742.8	29.80	756.8	64.4	18	71	ne.			1	0	5 kn		nw.	0.39	10.	cloudy	M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.68	753.9	29.76	755.9	77.0	25	53	nnw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.24	742.7	29.79	756.7	59.9	15.5	86	ssw.			1		10		w.	0.217	5.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.50	749.2	29.76	755.8	62.2	16.8	75	w.			1		10		w.	0.260	6.6	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.84	732.4	29.76	754.4	60.8	16	89	sw.			1		10 n		ne.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.54	750.2	29.79	756.6	68.2	20.1	57	ese.			1		8		se.	0.008	0.2	almost cov'd	M. Rayet, Director.
Bourges, Normal School	29.21	741.8	29.73	755.2	68.9	20.5	57	nw.			1		n		nw.	0.110	2.8		M. Malet, Director.
Brest, Naval Observatory	29.61	752.2	29.86	758.4	71.6	22.0	66	sw.			1		2		sw.	0.031	0.8		M. de Kermarée, Dir.
Caen, Normal School	29.67	753.6	29.74	755.4	64.4	18	72	nnw.			1		5		nnw.	0.244	6.2	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.39	746.6	29.70	754.4	63.7	17.6	88	w.			2		10			0.169	4.3	covered	M. Jadot, Director.
Charleville, Normal School	29.22	742.3	29.72	755.0	59.0	15.0	82	nw.			1		10			0	0	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.47	723.0	29.76	756.0	70.5	21.4	58	ene.			1	0	5 k			0.264	6.7	½ covered	M. Alluard, Director.
Cluny, Normal School	28.98	736.0	29.81	757.2	62.6	17	81	n.			1		9		n.	0.244	6.2		M. de Villemontée, Dir.
Commercy, Normal School	28.92	734.6	29.76	755.9	60.3	15.7	85	w.			1		10 n	w.	w.			raining	Dr. Coulet, Director.
Gap, Normal School	27.28	692.8	29.68	753.8	74.3	23.5	49	se.			1	0	2 s		s.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.65	727.8	29.73	755.1	75.6	24.2	51	nw.			3		3		nw.	0	0		M. Kina, Director.
Grenoble. Normal School	29.03	737.4	29.78	756.3	63.7	17.6	78	nnw.			2	ck	0	nnw.		0.24	6.		M. Ablard, Director.
Guéret, Normal School	28.26	717.9	29.87	758.8	66.6	19.2	53	sw.			1	ck	0			0.047	1.2		M. Delorme, Dir.
Lamballe, Normal School	29.65	753.0	29.91	759.8	63.7	17.6	84	nw.					fg		nw.	0.04	1.	foggy	M. Ollitrault, Director.
Lescar, Normal School	29.22	742.3	29.77	756.1	71.6	22.0	51	ne.			1	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.71	754.6	29.81	757.2	66.6	19.2	66	sw.			1		8	calm	sw.	0.039	1.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.78	731.0	29.82	757.4	61.9	16.6	78	nw.			1		10 n			0.370	9.4	covered	M. André, Director.
Mans, Normal School	29.43	747.6	29.74	755.3	65.7	18.7	83	n.			1		8		w.	1.441	36.6	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.50	749.3	29.76	756.0	72.9	22.7	58	w.			3		1		ne.	0	0		M. Stephan, Director.
Montlouis	24.75	628.6	29.59	751.6	56.3	13.5	41	w.	5.6	2.5			4	sw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.61	752.1	29.73	755.2	79.5	26.4	62	w.			1		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.05	737.8	29.82	757.4	61.9	16.6	85	w.			2		kn			0.008	0.2		M. Hasse, Director.
Nantes, Observatory	29.65	753.2	29.82	757.3	68.2	20.1	60	sw.			0–1		10 kn		wsw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.69	754.1	29.80	756.8	75.6	24.2	44	w.	1.8	0.8			4		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.12	536.4			36.3	2.4		w.			2–3				w.	0	0		M. Vaussenat, Director.
Privas, Normal School	28.71	729.3	29.74	755.5	68.4	20.2	62	n.			4		10 n		n.	0	0	covered	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.02	635.6			46.6	8.1	94	wnw.			1		8			1.791	45.5	¾ covered	M. Alluard.
Rochefort, Naval Obs'y	29.76	755.8	29.79	756.6	69.1	20.6	68	w.			2		10		w.	0.08	2.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.56	750.7	29.76	756.0	71.6	22	53	w.			1		5		w.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.73	704.3	29.82	757.5	64.2	17.9		nw.			1	1 c	0	sw.		0	0	clear	M. Seger, Director.
Rouen, Normal School	29.73	755.2	29.78	756.4	59.0	15	80	w.			2		10	w.		0.260	6.6	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.60	751.9	29.76	756.0	68.2	20.1	60	sw.			1		2		w.	0.138	3.5		M. Renou, Director.
Toulouse, Observatory	29.16	740.6	29.88	758.9	72.0	22.2	66	ene.			1		8	ne.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.60	751.9	29.78	756.4	72.3	22.4	51	sw.			1		5	s.	sw.	0.260	6.6	cloudy	M. de Tastes.
Versailles, Observatory	29.27	743.5	29.76	756.0	65.1	18.4	66	w.			2					0.197	5.0		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.64	752.8	29.79	756.6	70.3	21.3	68	e.	7.8	3.5		0	9 k		w.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.28	718.4	29.65	753.1	74.3	23.5	36	ne.			2		1	ne.		0	0		Prof. Jnedt.
Bamberg	28.89	733.7	29.72	754.9	74.3	23.5	45	se.			1	0	1 s			0	0		Prof. Dr. Hoh.
Berlin	29.58	751.4	29.72	754.9	76.6	24.8	32	sw.			1		1			0	0		Dr. Sensch.
Breslau	29.27	743.4	29.80	756.8	68.9	20.5	29	ne.			2		3	sw.		0	0		Royal University Obs'y
Carlsruhe	29.26	743.1	29.69	754.1	75.9	24.4	50	sw.			5		5	sw.		0.142	3.6		Albert Senz.
Cassel	28.96	735.6	29.67	753.7	77.0	25.0	30	s.			1		2	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.65	753.2	78.4	25.8	29	nw.			1		2			0	0		Physical Society.
Friedrichshafen	28.33	719.6	29.69	754.1	69.1	20.6	77	sw.			3		3	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.60	751.8	29.69	754.1	71.1	21.7	59	sse.			2		3	n.		0	0		E. Preller.
Kiel	29.70	754.3	29.71	754.7	63.7	17.6	61	nne.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.30	744.1	29.69	754.1	76.1	24.5	27	ese.			1		1			0	0	hazy	H. Leppig, Asst.
Magdeburg	29.50	749.3	29.68	753.8	78.8	26.0	29	se.			1		1	wnw.		0	0		Weather Observatory
Memel	29.74	755.5	29.79	756.7	59.0	15.0	77	sw.			4	0	2 k						Issermann.
Munich	27.93	709.3	29.77	756.2	72.7	22.5	53	n.			1		4	ne.		0.012	0.3		Central Station.
Neufahrwasser	29.77	756.1	29.78	756.5	67.3	19.6	53	ne.			3		6	ssw.		0	0		A. Lothes.
Neustadt, Palatinate	29.15	740.3	29.67	753.5	76.6	24.8	40	s.			1		4			0	0		Dicknether.
Stuttgart	28.75	730.3	29.60	751.7	75.7	24.3	31	ne.			1		2	e.		0	0		Prof. Dr. Schoder.
Wustrow	29.73	755.2	29.76	755.9	64.4	18.0	64	nne.			3		0			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.33	744.9	29.76	754.3	80.2	26.8		s.			2.5		1 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.44	747.7	29.49	748.9	89.4	31.9	79	wsw.	28.0	12.5			6		wsw.	0	0	d. clouds	
Deesa	29.01	736.8	29.46	748.2	103.0	39.4	25	sw.	12.0	5.4			0			0	0	blue sky	
Bombay	29.60	751.9	29.64	752.9	86.3	30.2	76	wsw.	8.0	3.6			8	w.	wnw.	0.45	11.4	d. clouds	
Poona, Yarrowda	27.79	705.9	29.62	752.3	83.0	28.3	61	sw.	29.0	13.0			10			0	0	overcast	
Trichinopoly	29.43	747.4	29.70	754.4	92.2	33.4	53	wsw.	3.0	1.3			8	nne.	ne.	0	0	d. clouds	
Belgaum	27.17	690.0	29.72	754.8	70.8	21.6	74	w.	10.0	4.5			9	s.	w.	0.96	24.4	d. clouds	
Lahore	28.66	727.8	29.36	745.6	103.3	39.6	24	calm	0	0			0			0	0	blue sky	
Roorkee	28.53	724.7	29.39	746.6	93.8	34.3	48	w.	0	0			2		w.	0	0	misty	
Agra	28.88	733.6	29.42	747.2	101.1	38.4	27	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.47	723.2	29.51	749.5	79.0	26.1	83	w.	14.0	6.3			10		nw.	1.01	25.6	drizzling	
Jubbulpore	28.15	715.0	29.45	748.0	95.7	35.4	28	se.	8.0	3.6			9		e.	0.02	0.5	overcast	
Lucknow	29.02	737.0	29.38	746.1	98.7	37.1	32	wnw.	6.0	2.7			0			0	0	blue sky	
Allahabad	29.08	738.6	29.37	746.1	103.7	39.8	22	nw.	2.0	0.9			1			0	0	d. clouds	
Patna	29.24	742.7	29.42	747.2	96.3	35.7	39	n.	2.7	1.2			0			0	0	blue sky	
Hazaribagh	27.48	698.1	29.41	747.1	92.9	33.8	26	n.	5.8	2.6			10			0	0	overcast	
Cuttack	29.40	746.6	29.47	748.6	89.9	32.2	64	sse.	8.0	3.6			10		sw.	0	0	overcast	
Calcutta, Alipore	29.40	746.7	29.43	747.4	88.7	31.5	73	w.	2.5	1.1			4		w.	0	0	d. clouds	
Dhubri	29.33	745.0	29.45	747.9	86.3	30.2	77	calm	0.3	0.1			3	sw.		0.03	0.8	d. clouds	
Chittagong	29.40	746.6	29.48	748.9	85.6	29.8	80	w.	3.6	1.6			8			0	0	d. clouds	
Sibsagar	29.17	740.8	29.49	749.1	87.7	30.9	78	ne.	2.0	0.9			8	w.	w.	0	0	d. clouds	
Jeypore	28.05	712.5	29.46	748.4	84.9	29.4	69	ese.	15.0	6.7			7		e.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Zanzibar	30.01	762.2	30.03	762.8	83.1	28.4	57	s.	9.9	4.4			6	ese.		0	0	d. clouds	
Bellary	28.15	715.0			91.0	32.8	37	w.	16	7.2		5 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.30	744.1	29.69	754.1	75.0	23.9	63	sw.	1.3	0.6			8			0.880	22.5		Prof. Giovanni Clodig.
Milan	29.22	742.3	29.72	755.0	72.0	22.2	60	sw.					3	sw.		0	0		Prof. G. V. Schiapparelli.
Padua	29.55	750.5	29.65	753.2	72.7	22.6	55	w.	4.9	2.2			1	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.84	732.5	29.72	754.8	69.8	21.0	65	ne.	2.5	1.1			8	ne.		0	0		Prof. F. F. Denza.
Genoa	29.57	751.0	29.76	755.8	68.9	20.5	69	sw.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	27.84	707.2	29.70	754.4	68.5	20.3	73	nw.			2		7			0.138	3.5		Prof. D. C. Bruno.
Pesaro	29.68	753.8	29.72	755.0	69.4	20.8	77	se.	6.9	3.1			4			0	0		Prof. Luigi Guidi.
Florence	29.48	748.9	29.73	755.2	71.1	21.7	51	w.			2		0			0.079	2.0		Prof. Costantino Pittei.
Leghorn	29.62	752.4	29.71	754.5	70.0	21.1	72	wnw.	1.8	0.8			2			0.189	4.8		Prof. P. Monte.
Rome	29.56	750.9	29.73	755.2	74.3	23.5	56	w.	12.5	5.6			5			1.437	36.5		Prof. P. Tacchini.
Lecce	29.47	748.5	29.71	754.7	72.3	22.4	49	sse.	12.5	5.6			7	se.		0	0		Prof. C. de Giorgi.
Cosenza	28.89	733.7	29.74	755.4	73.8	23.2	68	wsw.	2.5	1.1			9	sw.		0.244	6.2		Prof. D. Conti.
Cagliari	29.60	751.8	29.78	756.5	77.4	25.2	36	w.			4		2			0.012	0.3		Prof. A. Pacinotti.
Palermo	29.60	751.8	29.85	758.1	71.8	22.1	64	wsw.	8.1	3.6			10	wnw.		0.051	1.3		Prof. G. Cacciatore.
Syracuse	29.71	754.6	29.76	755.8	79.2	26.2	54	w.	17.4	7.8			5	w.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.23	742.4	29.74	755.3	68.5	20.3	74	sw.	4.9	2.2			6	wsw.		0.508	12.9		Prof. F. Brioschi.
Stelvio	22.00	560.2			47.5	8.6	66	ene.			1		8			0.067	1.7	misty	Prof. P. F. Denza.
Valdobbia	22.07	560.7			50.5	10.3	74	e.			2		10			0.197	5.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.06	763.4	30.09	764.3	54.7	12.6	92	calm			0	0	4 ck		sw.	0	0	fair	H. Hattori.
Awomori	30.06	763.5	30.09	764.3	56.0	13.3	61	e.	9.5	4.2		0	3 ks		e.	0	0	fair	K. Ogawa.
Hamamatsu	30.06	763.5	30.09	764.2	62.3	16.8	96	e.			4		10 n			1.547	39.3	raining	Y. Sekigawa.
Kanazawa	29.97	761.3	30.07	763.9	60.3	15.7	86	nw.	0.6	0.3			10			0	0	cloudy	S. Endo.
Kagoshima	30.03	762.7	30.04	763.0	67.5	19.7	85	n.			2		0			0	0	clear	G. Miyanohara.
Kioto	29.87	758.6	30.04	763.0	62.7	17.1	79	ne.	3.8	1.7		0	1 s			inap.	inap.	clear	M. Tojima.
Kochi	30.01	762.4	30.04	762.9	71.1	21.7	86	sw.	2.3	1.0		0	8 s		nw.	0	0	cloudy	K. Kusunose.
Miasaka	30.02	762.4	30.04	763.1	67.1	19.5	94	se.			1	0	0			0	0	clear	K. Masusaki.
Miyako	30.07	763.8	30.18	766.6	51.5	10.8	83	wsw.	0.7	0.3			10 s			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.81	757.2	30.01	762.2	68.1	20.1	85	calm	0	0		0	0			0	0	misty	S. Takehayashi.
Niigata	30.04	763.0	30.07	763.8	65.0	18.3	61	e.	2.1	0.9			10 n		n.	0.030	0.8	light rain	M. Morita.
Nobiru	30.16	765.9	30.17	766.3	53.9	12.2	85	e.	10.4	4.6			10 s			0	0	covered	H. Midzushina.
Numazu	30.07	763.8	30.10	764.6	62.5	16.9	85	e.			1		10ks;n			0.051	1.3	cloudy	R. Kaneda.
Osaka	30.00	762.1	30.02	762.5	65.7	18.7	79	n.	2.1	0.9		0	1 s			0	0	clear	H. Omura.
Sakai	30.04	763.1	30.05	763.3	61.5	16.4	85	nne.			2		10 ks		nnw.	0.012	0.3	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	30.05	763.3	30.13	765.2	60.2	15.7	86	e.	10.2	4.6			10 s		s.	0.101	2.6	covered	The Staff.
Wakayama	29.97	761.3	30.02	762.6	67.0	19.4	83	calm	0	0		0	0			0	0	clear	K. Sakai.
Shimonoseki	29.88	758.9	30.02	762.5	64.7	18.2	86	calm			0	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.82	757.4	30.00	762.0	76.6	24.8	72	nw.	4.0	1.8		0	3 k;ks		se.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.70	601.9	29.92	759.9	59.7	15.4	82	calm	0	0		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.32	617.7	30.01	762.2	57.6	14.2	84	nnw.	0.9	0.4		0	0			inap.	inap.	clear	Prof. M. Leal.
Mazatlan	29.71	754.6	29.97	761.1	74.0	23.3	90	nnw.	0.9	0.4		6 cs	0	e.		0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					75	23.9	85	s.	6.7	3.0		0	8 ck		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.74	755.5	29.74	755.5	61.9	16.6		n.			3					0	0		
Groningen	29.69	754.2	29.75	755.0	56.5	13.6		n.			1					0	0		
Helder	29.76	755.9	29.76	755.9	55.4	13.0		ne.			2					0	0		
Hellevoetsluis	29.74	755.3	29.74	755.3	65.3	18.5	66	n.			2					0.020	0.5		
Utrecht	29.70	754.3	29.74	755.5	64.2	17.9	60	nne.			2		5			0.102	2.6	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.2			81.7	27.6	82	ne.	0.5	0.2			4			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.52	749.9	29.59	751.5	57.6	14.2	65	s.	7	3			6			0	0		
Brono	29.82	757.4	29.86	758.4	64.9	18.3	51	n.			4		3			0	0		
Christiania	29.52	749.9	29.67	753.6	54.1	12.3	71	ne.	13	6			9			0.055	1.4		
Gjæsvær	30.05	763.3	30.08	763.9	54.1	12.3		calm			0		0						
Lodingen	29.94	760.5	29.99	761.7	70.5	21.4	42	ne.			1		0			0	0		
PORTUGUESE.																			
Angra, Azores	29.87	758.6	30.02	762.6	61.2	16.2	87	n.	9.8	4.4			5			0	0		Dr. J. A. Sampaio.
Campo Major	28.88	733.6	29.86	758.5	67.6	19.8	54	sw.	6.9	3.1			9			0.028	0.7		Dr. A. M. R. dos Santos.
Funchal, Madeira	29.95	760.6	30.03	762.8	67.8	19.9	68	sw.	9.8	4.4			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.55	750.5	29.88	758.9	63.3	17.4	76	sw.	23.0	10.3			9			0	0		The Staff.
Ponta Delgada, Azores	29.97	761.2	30.04	763.0	67.6	19.8	55	wnw.	11.9	5.3			4			0	0		
Saint Paul de Loando	29.79	756.7	29.99	761.8	78.1	25.6	88	wnw.			1		0	s.		0	0		
San Salvador	28.14	714.8	29.98	761.6	75.4	24.1	69	ssw.			1		7			0	0		
Serra da Estrella	25.10	637.5	29.85	758.3	43.2	6.2	79	ssw.	8.7	3.9			10			0.004	0.1	rain & fog	
RUSSIAN.																			
Akmolinski	28.68	728.5	29.71	754.7	69.6	20.9	31	e.	18	8			10 k			0	0		Major K. Lasarew.
Archangel	29.99	761.8	30.01	762.3	78.8	26.0	23	se.	4	2		0	0			0	0		Capt. Sseliwerstow
Ashurada	29.95	760.6	29.85	758.2	74.8	23.8	81	wnw.	20	9			9 k			0.008	0.2		
Astrakhan	29.97	761.1	29.88	759.0	75.2	26.2	32	wsw.	4	2		0	5 ks			inap.	inap.		Capt. Wisganow.
Baku	30.00	761.9	29.95	760.7	70.2	21.2	69	n.	22	10		0	5 ks			0	0		
Barnaul	29.52	749.9	30.02	762.5	55.0	12.8	30	ne.	13	6			0			0	0		Meteorological Obs'y
Bielosersk	29.42	747.2	29.87	758.6	65.8	18.8	76	ese.	11	5			10ks;n			0.370	9.4		
Dorpat	29.43	747.4	29.66	753.4	59.0	15.0	90	n.	2	1			9 ku			0.165	4.2		Observatory.
Ekaterinburg	29.04	737.5	29.97	761.1	69.3	20.7	30	sw.	2	1		ck	3 k			0	0		Meteorological Obs'y
Elissawetgrad	29.41	747.1	29.84	758.0	75.9	24.4	47	sw.	13	6		0	8ks;n			0	0		
Irkutsk	28.24	717.3	29.84	758.0	57.7	14.3	57	ese.			1		5			0	0		
Kasalinsk	29.27	743.5	29.45	748.0	81.0	27.2	40	nw.	9	4		0	0						
Kasan	29.00	753.3	29.91	759.7	76.6	24.8	34	ne.	9	4			9 k			0	0		Observatory.
Kem	29.95	760.6	30.00	761.9	64.8	18.2	50	e.	18	8		0	0			0	0		
Kertch	29.93	760.2	29.95	760.8	74.7	23.7	52	se.	4	2		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.08	738.0	29.68	753.8	74.5	23.6	62	ssw.	9	4		ck	5 ks			0.028	0.7		Observatory.
Koslov	29.37	746.1	29.89	759.2	70.7	21.5	87	ssw.	4	2			10 ks			0.020	0.5		
Libau	29.09	754.1	29.71	754.7	56.1	13.4	64	sw.	9	4			10			0.031	0.8		E. Quaas.
Lugan	29.70	754.4	29.88	758.9	77.2	25.1	60	sse.	4	2			5			0.035	0.9		Meteorological Obs'y.
Moscow	29.35	745.5	29.86	757.0	66.9	19.4	57	se.	4	2			10 ks			0	0		Meteorological Obs'y
Nikolaiev	29.82	757.3	29.89	759.2	74.8	23.8	60	s.	31	14		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.91	759.7	30.00	761.9	50.5	10.3	79	e.	11	5			10			0	0		Iwanow.
Pekin, China	29.67	753.6	29.81	757.2	75.7	24.3	59	se.	22	10		0	7 n			0	0		Physical Observatory.
Petro-Alexandrovsk	29.38	746.2	29.71	754.6	86.0	30.0	28	wnw.	22	10		0	3 k			0	0		
Petrozavodsk	29.03	752.5	29.82	757.3	70.9	21.6	51	se.	16	7		3 ck	0			0.283	7.2		Dr. Bergmann.
Pinsk	29.25	743.0	29.73	755.1	72.1	22.3	40	e.	7	3		2 cs	0			0.059	1.5		
Poti	29.93	760.3	29.97	761.1	72.3	22.4	71	w.	4	2		0	0			0.020	0.5		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
St. Petersburg	29.69	754.2	29.72	754.8	56.5	13.6	76	e.	7	3	.....	.....	10 n	.....	.....	0.256	6.5	.....	Central Physical Obs'y.
Samarkand	27.34	694.3	29.65	753.1	82.8	28.2	32	calm	0	0	.....	1 ck	0	.....	.....	0	0	.....	
Semipalatinsk	29.27	743.4	29.91	759.6	65.7	18.7	29	n.	9	4	.....	.....	2	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.67	753.6	29.89	759.1	76.1	24.5	37	s.	40	18	.....	3 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	29.30	744.3	29.74	755.3	77.0	25.0	54	ssw.	7	3	.....	.....	10 kn	.....	.....	0	0	.....	
Tashkend	28.04	712.1	29.57	751.1	89.4	31.9	29	n.	7	3	.....	.....	9 s;n	.....	.....	0	0	.....	Terch, A. M.
Tiflis	28.56	725.3	29.92	760.0	72.3	22.3	51	se.	2	1	.....	.....	10 n	.....	.....	inap.	inap.	light rain	Physical Observatory.
Vernoe	27.15	689.6	29.51	749.5	75.6	24.2	47	calm	0	0	.....	0	8 n	.....	.....	0	0	.....	
Viatka	29.34	745.3	29.95	760.6	75.2	24.0	36	calm	0	0	.....	.....	3	.....	.....	0	0	.....	
Warsaw	29.36	745.7	29.77	756.1	66.6	19.2	36	nne.	4	2	.....	0	0	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.85	758.1	30.14	765.6	40.8	4.9	53	w.	4	2	.....	.....	10	.....	.....	0.004	0.1	snow & selet	M. O. Marks.
SCOTTISH.																			
Monach Lt	.....	.....	29.79	756.7	57	13.9	94	e.	.....	.....	2	0	0	.....	.....	0	0	clear	J. Youngclause
North Unst	.....	.....	29.69	754.1	.....	.....	.....	n.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.75	755.6	29.85	758.2	71.6	22.0	63	sw.	2.5	1.1	.....	0	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.69	754.1	29.75	755.6	79.2	26.2	56	se.	2.0	0.9	.....	2	6	w.	.....	0.217	5.5	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.88	682.7	29.77	756.2	57.2	14.0	70	s.	5.6	2.5	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.65	702.2	29.81	757.2	66.9	19.4	50	sw.	17.0	7.6	.....	0	8	.....	.....	0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.66	753.4	29.80	756.8	82.0	27.8	46	s.	5.4	2.4	.....	2	0	ne.	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	28.94	735.0	29.70	754.3	59.9	15.5	94	n.	3.8	1.7	.....	6 n	4 k	s.	s.	0.406	10.3	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.79	731.3	29.68	753.9	54.7	12.6	91	s.	.....	.....	.....	.....	10	.....	.....	0.280	7.1	raining	R. Gil Villanueva, Dir.
Sub-series.									22.4	10.0									
Havana, Cuba	29.94	760.6	30.01	762.2	76.7	24.8	86	e	2.2	1.0	.....	c;cs	k	nw.	.....	0.53	13.4	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.5	29.88	759.0	76.0	24.4	96	ssw.	6.6	3.0	.....	.....	10 n	.....	sw.	0.496	12.6	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.90	759.4	30.00	761.9	69.1	20.6	66	wsw.	9.6	4.3	.....	0	7	.....	wsw.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	30.00	762.1	30.10	764.4	79.5	26.4	94	calm	0	0	.....	3 s	2 k	se.	se.	0	0	.....	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.90	759.4	29.94	760.4	74.8	23.8	50	e.	.....	.....	6	.....	3	.....	.....	0	0	.....	
Umea	29.77	756.1	29.82	757.4	71.2	21.8	37	e.	.....	.....	7	.....	1	.....	.....	0	0	.....	
Hernosand	29.72	754.8	29.77	756.1	55.8	13.2	85	ne.	.....	.....	4	.....	10	.....	.....	0.028	0.7	.....	
Stockholm	29.47	748.5	29.65	753.0	56.1	13.4	91	ssw.	.....	.....	2	.....	10	.....	.....	0.224	5.7	raining	
Wisby	29.58	751.4	29.64	752.9	50.4	10.2	90	w.	.....	.....	2	.....	10	.....	.....	0.130	3.3	.....	
Sub-series.																			
Upsala	29.54	750.4	29.63	752.6	56.5	13.6	83	nne.	8.7	3.9	.....	.....	10	.....	n.	.....	.....	raining	S. G. Fineman.
SWISS.																			
Geneva	28.37	720.7	29.76	756.0	66.4	19.1	68	ssw.	.....	.....	6	.....	9	.....	.....	0.118	3.0	covered	The Observatory.
TURKISH.																			
Constantinople	.....	.....	29.73	755.2	87.4	30.8	30	se.	9.	4.0	.....	.....	3	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.91	759.8	77.4	25.2	.....	sw.	.....	.....	1	.....	2	.....	.....	.....	.....	rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.94	760.5	77.5	25.3	67	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.51	673.3	.....	.....	67	19.4	78	e.	.....	.....	1	.....	6 k	.....	s	0.1	3.	.....	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.76	755.9	29.84	757.9	72	22.2	84	s.	4	1.8	.....	2 cs	8 s	w.	sw.	2.95	74.9	cloudy	J. O. Barnes.
Alpena, Michigan	29.06	738.1	29.71	754.6	61	16.1	60	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.09	637.3	29.84	757.9	47	8.3	61	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.17	690.1	29.96	761.0	50	10.0	74	sw.	8	3.6	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.90	734.0	30.05	763.3	73.0	22.8	83	e.	2	0.9	.....	7 k	0	.....	.....	0.01	0.3	fair	Edward A. Beals.
Atlantic City, New Jersey	29.92	760.0	29.93	760.2	64	17.8	90	sw.	9	4.0	.....	8 ck	0	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.90	759.4	30.09	764.3	75.0	23.9	85	s.	3	1.3	.....	5 c;ck	4 k	w.	s.	0.02	0.5	cloudy	John Healy.
Baltimore, Maryland	29.88	758.9	29.93	760.2	76	24.4	76	sw.	7	3.1	.....	2 c	0	.....	.....	0	0	clear	Geo. W Fsliger.
Barnegat City, New Jersey	29.90	759.4	29.92	760.0	72.0	22.2	90	sw.	9	4.0	.....	3 c	0	w.	.....	0	0	clear	G. A. Hill.
Behring Id., Behring Sea	30.15	765.8	30.17	766.3	39.9	4.4	94	s.	2	0.9	.....	0	9 n	.....	s.	0.04	1.0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.39	721.1	29.93	760.2	50.0	10.0	90	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.22	691.4	29.99	761.7	45	7.2	76	ne.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	S. Wheaton.
Billings, Montana	26.76	679.7	29.90	759.4	46	7.8	100	ne.	3	1.3	.....	.....	10 n	.....	.....	0.23	5.8	light rain	T. Gibson.
Bismarck, Dakota	28.10	713.7	29.85	758.4	52	11.1	80	nw.	4	1.8	.....	5 k	0	nw.	.....	0.02	0.5	fair	Cyrus Cramer.
Block Island, Rhode Island	29.87	758.7	29.90	759.4	61.5	16.4	93	sw.	20	8.9	.....	9 cs	fg.	w.	.....	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.26	692.4	30.04	763.0	54	12.2	69	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Kenealy.
Boston, Massachusetts	29.70	754.4	29.85	758.2	72.0	22.2	84	sw.	4	1.8	.....	0	8 n	.....	w.	0.32	8.1	light rain	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.94	760.5	74.0	23.3	90	e.	5	2.2	.....	0	3 s	.....	s.	0	0	clear	E. C. Imlay.
Buffalo, New York	29.10	739.1	29.84	757.9	58.3	14.6	96	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.05	1.3	cloudy	A. Schneider.
Buford, Fort, Dakota	27.94	709.7	29.90	759.4	48	8.9	93	calm	0	0	.....	4 c	5 s	w.	nw.	0	0	cloudy	W. H. Ray.
Burlington, Vermont	29.50	749.3	29.79	756.7	66.0	18.9	93	s.	7	3.1	.....	.....	10 s	.....	w.	0.18	4.6	cloudy	D. N. Farnell.
Cairo, Illinois	29.63	752.6	30.02	762.5	70.7	21.5	92	w.	2	0.9	.....	.....	10 s	.....	w.	0.26	6.6	threatening	A. K. Alderson.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	75.0	23.9	82	sw.	12	5.4	.....	0	7 s	.....	.....	0	0	fair	W. E. Smith.
Cape May, New Jersey	29.92	760.0	29.95	760.7	67.0	19.4	84	s.	12	5.4	.....	7 ck	0	sw.	.....	0	0	fair	J. J. McLean.
Cape Mendocino, California	29.30	744.2	29.98	761.5	68	20.0	51	n.	.....	.....	2	2 c	0	nw.	.....	0	0	clear	G. W. Davis.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	80	26.7	88	se.	13	5.8	.....	0	7 k	.....	se.	0	0	fair	J. H. Smith.
Charleston, S. Carolina	30.04	763.0	30.08	764.0	81	27.2	82	sw.	7	3.1	.....	3 c	5 ks	w.	sw.	0	0	cloudy	D. O'Donoghue.
Charlotte, N. Carolina	29.21	741.9	30.04	763.0	74.0	23.3	82	sw.	3	1.3	.....	10 cs	fg	sw.	.....	0	0	cloudy	B. L. Goulding.
Chattanooga, Tennessee	29.23	742.4	30.04	763.0	69.5	20.8	92	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	E. McGovern.
Cheyenne, Wyoming	24.12	612.6	29.86	758.4	48.2	9.0	61	w.	6	2.7	.....	5 c	0	w.	.....	0.01	0.3	fair	John Laurens.
Chicago, Illinois	29.17	740.9	29.86	758.4	63.8	17.7	69	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	C. F. Dickens.
Chincoteague, Virginia	29.96	761.0	29.98	761.5	70	21.1	94	s.	4	1.8	.....	3 c	4 ks	.....	s.	0	0	fair	L. Dunne.
Cincinnati, Ohio	29.32	744.7	29.97	761.2	70.0	21.1	84	sw.	5	2.2	.....	.....	10 s	.....	w.	0.36	9.1	cloudy	J. B. Newlin.
Cleveland, Ohio	29.16	740.7	29.89	759.2	66	18.9	88	w.	0	2.7	.....	.....	10 s	.....	w.	0.48	12.2	cloudy	T. J. Kenan.
Coleman City, Texas	28.17	715.5	29.92	760.0	70	21.1	82	se.	4	1.8	.....	4 ck	0	.....	.....	0	0	fair	D. Cuthbertson.
Columbus, Ohio	29.08	738.6	29.92	760.0	66	18.9	90	s.	2	0.9	.....	.....	10 s	.....	w.	0.24	6.1	cloudy	J. McGlone.
Concho, Fort, Texas	28.07	713.0	29.94	760.5	71.0	21.7	82	s.	8	3.0	.....	10 cs	0	.....	.....	0	0	cloudy	R. R. Martin.
Davenport, Iowa	29.23	742.4	29.87	758.7	64	17.8	73	w.	10	4.5	.....	2 ck	hz.	w.	.....	0	0	clear	J. Williams.
Davis, Fort, Texas	25.18	639.6	29.80	756.9	62	16.7	65	calm	0	0	.....	0	0	.....	.....	0.15	3.8	clear	D. Moore.
Dayton, Washington Ty.	28.46	722.9	30.20	767.1	60	15.6	72	sw.	4	1.8	.....	8 ck	0	sw.	.....	0	0	cloudy	F. Willson.
Deadwood, Dakota	25.37	644.4	29.81	757.2	48	8.9	74	s.	0	2.7	.....	0	0	.....	.....	0	0	clear	T. S. Townsend.
Delaware Breakwater, Del.	29.94	760.5	29.96	761.0	73	22.8	84	sw.	20	8.9	.....	8 ck	0	sw.	.....	0	0	cloudy	F. M. Neal.
Denver, Colorado	24.83	630.7	29.87	758.7	53.0	11.7	64	calm	0	0	.....	7 cs	0	.....	.....	0	0	fair	F. W. Conrad.
Des Moines, Iowa	29.06	738.1	29.94	760.5	59	15.0	75	nw.	4	1.8	.....	1 ck	0	nw.	.....	0	0	clear	E. R. Brace.
Detroit, Michigan	29.15	740.4	29.84	757.9	66.0	18.9	78	sw.	4	1.8	.....	3 cs	0	sw.	.....	0.22	5.6	clear	D. J. Carr.
Dodge City, Kansas	27.47	697.7	29.98	761.5	56	13.3	100	nw.	4	1.8	.....	.....	fg	.....	.....	inap.	inap.	dense fog	J. Harvey Smith.
Dubuque, Iowa	29.16	740.7	29.85	758.2	61.7	16.5	65	w.	5	2.2	.....	1 c	1ks;hz	w.	n.	0	0	clear	N. B. Conger.
Duluth, Minnesota	29.06	738.1	29.79	756.7	59	15.0	75	s.	1	0.4	.....	3 cs	0	w.	.....	0.10	2.5	clear	F. Belford.
Eagle Pass, Texas	29.20	741.7	29.99	761.7	80.7	27.1	68	se.	0	2.7	.....	1c s	.....	.....	se.	0	0	cloudy	H. R. Boynton.
Eagle Rock, Idaho	25.38	644.6	29.98	761.5	49	9.4	68	s.	4	1.8	.....	6 c	0	w.	.....	0	0	fair	D. C. Murphy.
Eastport, Maine	29.86	758.4	29.93	760.2	53.0	11.7	83	e.	1	0.4	.....	.....	10 s	.....	s.	0.03	0.8	cloudy	W. J. Cundall.
Elliott, Fort, Texas	27.27	692.6	29.94	760.5	62	16.7	72	ne	8	3.6	.....	6 k	0	ne.	.....	0	0	fair	J. O'Dowd.
El Paso, Texas	26.24	666.5	29.83	757.7	73.0	22.8	26	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Erie, Pennsylvania	29.15	740.4	29.87	758.7	65	18.3	93	sw.	8	3.6	.....	.....	10 n	.....	.....	0.80	20.3	light rain	George Heathcote.
Escanaba, Michigan	29.06	738.1	29.71	754.6	62.0	16.7	67	w.	0	2.7	.....	0	0	.....	.....	inap.	inap.	clear	E. O'C. Machnerney.
Galveston, Texas	29.94	760.5	29.98	761.5	78	25.6	82	se.	2	0.9	.....	2 ck	5 ks	se.	.....	0	0	fair	J. E. Mueller.
Grand Haven, Michigan	29.15	740.4	29.80	756.9	57.5	14.2	80	sw.	18	8.0	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Grant, Fort, Arizona	25.27	641.8	29.81	757.2	67.4	19.7	49	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. M. Crawford.
Hatteras, North Carolina	30.08	764.0	30.10	764.5	75	23.9	90	se.	10	7.2	.....	0	4 s	.....	se.	0	0	fair	H. W. Dodge.
Helena, Montana	25.92	654.8	30.04	763.0	48	8.9	71	sw.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.56	725.4	29.90	759.4	51.9	11.1	80	w.	7	3.1		2 k	1 s	w.		0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.14	740.1	29.92	760.0	68.8	20.4	57	w.	3	1.3		1 cs	2 s	w.	w.	0.74	18.8	clear	C. F. R. Wappenhans.
Indianola, Texas	29.94	760.5	29.97	761.2	76.2	24.6	92	s.	3	1.3		0	0			0.51	13.0	clear	I. A. Reed.
Jacksonville Florida	30.05	763.3	30.09	764.3	80.0	26.7	82	s.	7	3.1		3 cs	4 s		s.	0.12	3.0	fair	J. W. Smith.
Keogh, Fort, Montana	27.45	697.2	29.88	758.9	52	11.1	69	w.	4	1.8			10 s			0	0	cloudy	W. B. Lamar.
Keokuk, Iowa	29.27	743.4	29.91	759.7	68.0	20.0	84	sw.	6	2.7		6 k	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762 0	82.0	27.8	80	e.	7	3.1		3 cs	3 ks	sw.	e.	0.08	2.0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.07	763.8	30.09	764.3	76	24.4	90	sw.	14	6.3		2 ck	1 s	sw.		0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.04	737.6	30.05	763.3	65.3	18.5	99	sw.	3	1.3			10 s		sw.	1.16	29.5	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.06	738.4	29.82	757.4	66	18.9	59	sw.	4	1.8		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.13	739.9	30.00	762.0	65	18.3	84	s.	2	0.9		1 ck	0	sw.		inap.	inap.	clear	A. W. Brown.
Lewiston, Idaho	29.34	745.2	30.16	766.1	57.5	14.2	69	se.	4	1.8		0	9 s		w.	0	0	cloudy	H. S. Blandford.
Little Rock, Arkansas	29.68	753.9	29.99	761.7	69	20.6	78	calm	0	0		3 c	fg.			0.11	2.8	clear	W. U. Simons.
Los Angeles, California	29.65	753.1	30.04	763.0	62	16.7	93	w.	1	0.4			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.40	746.7	29.95	760.7	69	20.6	84	sw.	6	2.7			10 s		sw.	0.22	5.6	cloudy	L. M Dey.
Lynchburg, Virginia	29.30	744.2	29.97	761.2	74	23.3	76	sw.	2	0.9		2 cs	5 ks	sw.	sw.	0.02	0.5	fair	Lou's Duane.
Mackinaw City, Michigan	29.06	738.1	29.70	754.4	67.8	19.9	31	w.	10	4.5		0	2 s			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.09	764.3	30.10	764.5	74.0	23.3	97	sw.	14	6 3			10 n		sw.	0.35	8.9	thund'r st'm	William Daly.
Maginnis, Fort, Montana	25.59	650.0	29.92	760.0	44	6.7	68	nw.	10	4.5			10 n		nw.	0.07	1.8	light rain	F. Burke.
Marquette, Michigan	28.99	736.3	29.71	754.6	55	12.8	80	nw.	8	3.6			10 s		nw.	0.11	2.8	cloudy	J. Gilligan.
Memphis, Tennessee	29.66	753.4	29.99	761.7	73	22.8	90	calm	0	0			10 s			inap.	inap.	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.07	738.4	29.81	757.2	63	17.2	68	w.	15	6.7		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana	26.84	681.7	30.10	764.5	53	11.7	74	sw.	1	0.4			10 s			0.07	1.8	cloudy	J. H. Young.
Mobile, Alabama	29.96	761.0	30.00	762.0	77.3	25.2	89	e.	4	1.8		4 cs	4 ks	sw.		0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.76	755.9	29.98	761.5	72	22.2	95	calm	0	0			10k;fg		sw.	0.06	1.5	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.82	732.0	29.80	756.9	54	12.2	86	w.	5	2.2			10 s		w.	0.03	0.8	cloudy	H. White.
Mt. Washington, N. H.	23.83	605.3	29.95	760.7	50.6	10.3	95	w.	26	11.6		5 k	fg.	w.	w.	0.16	4.1	fair	S. W. Beall.
Nashville, Tennessee	29.42	747.3	29.98	761.5	70.0	21.1	92	w.	3	1.3			10 n		w.	0.43	10.9	thund'r st'm	L. N. Jesunofsky.
New Haven, Connecticut	29.77	756.1	29.88	758.9	67.5	19.7	91	s.	4	1.8		1 c	fg.			0.13	3.3	clear	J. H. Sherman.
New London, Connecticut.	29.88	758.9	29.93	760.2	69	20.6	84	s.	5	2.2			10 s			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.93	760.2	29.98	761.5	76.0	24.4	90	ne.	3	1.3		2 ck	6 s	w.		0.01	0.3	cloudy	M. Herman.
New York, New York	29.75	755.6	29.92	760.0	70	21.1	90	s.	5	2.2		4 cs	0	sw.		0.32	8.1	fair	G. E. Franklin.
Norfolk, Virginia	30.01	762.2	30.04	763.0	78	25.6	76	sw.	9	4.0		6 k	0	sw.		0	0	fair	Wm. Davis.
North Platte, Nebraska	27.13	689.1	29.93	760.2	55.6	13.1	78	calm	0	0		0	6 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.32	770.1	30.36	771.1	51.0	10.6	86	n	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.83	732.3	29.97	761.2	63.0	17.2	58	calm	0	0		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	30.14	765.5	30.15	765.8	31.0	— 0.6	89	calm	0	0		2 c	18;fg			0	0	clear	P. H. Ray.
Oswego, New York	29.49	749.0	29.81	757.2	71.5	21.9	82	s.	4	1.8			10ks;h		w.	0.08	2.0	light rain	J. G. Linsley.
Palestine, Texas	29.47	748.5	30.01	762.2	67.5	19.7	90	s.	4	1.8		5 cs	0	w.		0	0	fair	J. W. Byram.
Pensacola, Florida	29.97	761.2	30.00	762.0	77.2	25.1	90	s.	10	4.5			10 ks		s.	0	0	threatening.	M. McGauran.
Philadelphia, Pa	29.83	757.7	29.93	760.2	75.5	24.2	97	s.	9	4.0		2 cs	0	sw.		inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	18.00	457.2	29.82	757.4	20	— 3.3	84	n.	8	3.6		9 cs	0			0	0	cloudy	H. Hall.
Ploche, Nevada	24.22	615.2	30.02	762.5	56.0	13.3	35	n.	10	4.5		5 c	0	n.		0	0	fair	F. R. Day.
Pittsburg, Pennsylvania	29.11	739.4	29.90	759.4	68.5	20.3	90	w.	6	2.7			10 n		w.	0.56	14.2	light rain	W. A. Reid.
Poplar River, Montana																			W. D. Maxwell.
Port Huron, Michigan	29.12	739.6	29.79	756.7	64.9	18.3	88	sw.	9	4.0		0	0			0.15	3.8	clear	M. H. Perry
Portland, Maine	29.80	756.9	29.85	758.2	57.0	13.9	86	e.	4	1.8			fg.			0.05	1.3	dense fog	W. W. Eichelberger.
Portland, Oregon	30.23	767.8	30.30	769.6	60.4	15.8	81	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					75	23.9	100	sw.	16	7.2			10 s		sw.	0.06	1.5	cloudy	F. P. Chaffee.
Prescott, Arizona	24.84	630.9	29.86	758.4	50.8	10.4	42	sw.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.86	758.4	29.89	759.2	68.5	20.3	78	sw.	7	3.1		2 c	5s;hz	w.	w.	0.02	0.5	fair	O. N. Kitchel.
Punta Rassa, Florida	30.02	762.5	30.03	762.7	75	23.9	90	e.	7	3.1		1 c	0	w.		0.40	10.2	clear	W. J. Evans.
Red Bluff, California	29.63	752.6	29.98	761.5	79	20.1	33	n.	2	0.9		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.18	741.2	29.84	757.9	67	19.4	84	sw	13	5.8		3 k	6s;hz	w.	sw.	0.03	0.8	cloudy	E. W. McGann.
Roseburg, Oregon	29.71	754.6	30.26	768.6	55.5	13.1	83	ne.	1	0.4		1 c	0	nw.		0	0	clear	J. J. Nanry.
Sacramento, California	29.84	757.9	29.91	759.7	72.5	22.5	53	n.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.40	746.7	29.99	761.7	67.7	19.8	95	w.	4	1.8		5 c;hz	0			0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	30.03	762.7	30.06	763.5	39	3.9	89	sw.	10	4.5			10 s			0.03	0.8	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.98	736.1	29.82	757.4	56.0	13.3	86	w.	2	0.9		4 ck	0	n.		0.05	1.3	fair	P. F Lyons.
St. Vincent, Minnesota	28.88	733.5	29.73	755.1	55	12.8	86	nw.	3	1.3			10 ks			0.02	0.5	cloudy	C. B. Dilley
Salt Lake City, Utah	25.79	655.1	30.01	762.2	60	15.6	36	nw.	4	1.8		4 k	0	sw.		0	0	fair	J. Craig.
San Antonio, Texas	29.30	744.2	29.98	761.5	74	23.3	90	s.	4	1.8		3 cs	0	n.		0.03	0.8	clear	J. H. Davis.
San Diego, California	29.93	760.2	30.00	762.0	62.1	16.7	84	n.	4	1.8			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.87	758.7	29.90	759.4	76.0	24.4	76	sw	10	4.5		5 k	0	sw.		inap.	inap.	fair	B. A. Blundon.
Sanford, Florida	30.02	762.5			78.0	25.6	89	se.	2	0.9		5 c	fg.	sw.		0.17	4.3	fair	J. B. Marbury.
San Francisco, California	29.89	759.2	29.96	761.0	61	16.1	81	nw.	3	1.3		4c;cs	0	ne.		0	0	fair	N. Gorom.
Santa Fé, New Mexico	23.32	592.3	29.83	757.7	67	19.4	63	s.	4	1.8		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.01	762.2	30.10	764.5	79	26.1	85	s.	4	1.8		2 ck	8 ks		s.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	29.98	761.5	51	10.6	86	n.	6	2.7			10 n		n.	0.06	1.5	light rain	A. L. Mathews
Shreveport, Louisiana	29.76	755.9	29.99	761.7	68.5	20.3	91	calm	0	0			10 s		s.	1.02	25.9	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.78	731.0	29.98	761.5	63.5	17.5	99	w.	4	1.8			10 n			1.11	28.2	heavy rain	W. M. Mattingly.
Sitka, Alaska	30.06	763.5	30.12	765.0	42.2	5.7	68	nw.	3	1.3		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.53	750.0	29.99	761.7	69.0	20.6	93	calm	0	0			10 n			0.09	2.3	light rain	J. B. Campbell.
Smithville North Carolina	30.06	763.5	30.10	764.5	73	22.8	90	w.	7	3.1			10 n		w.	0.03	0.8	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.13	714.5	30.17	766 3	54	12.2	74	w.	10	4.5		3 c	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.28	743.7	29.95	760.7	65.5	18.6	81	w.	6	2.7		4 c	0	w.		0	0	fair	T. B. Jennings.
Starkville, Miss	29.55	750.6	30.02	762.5	70	21.1	90	calm	0	0		0	8 s			0.87	22.1	cloudy	C. Dill.
Stockton, Fort, Texas	26.94	684.3	29.86	758.4	73	22.8	64	s.	12	5.4		5 ck	0	w.		0	0	fair	A. J. Warren.
Thomas, Camp, Arizona	27.21	691.1	29.84	757.9	63	17.2	40	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.17	740.9	29.85	758.2	70	21.1	79	s.	9	4.0		6 c	0	w.		0.60	15.2	fair	A. Buell.
Tucson, Arizona	27.55	699.8	29.85	758.2	64	17.8	45	e	1	0.4		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	30.08	764.0	30.10	764.5	39	3.9	89	n.	6	2.7			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					62	16.7	26	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.77	756.1	30.02	762.5	72.0	22.2	90	calm	0	0		5 cs	2 s			0.20	5.1	fair	James Keneaty.
Visalia, California	29.52	749.8	29.89	759.2	72.0	22.2	51	se.	3	1.3		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.53	623.1	29.91	759.7	45.9	7.7	80	sw.	4	1.8		9ck; k	0			0	0	cloudy	T. M. Ambler
Washington, D. C.	29.84	757.9	29.95	760.7	77.5	25.3	74	sw.	6	2.7		4 k	0	sw.		0	0	fair	B. M. Pursell.
West Las Animas, Colorado	26.08	662.4	29.85	758.2	54	12.2	86	s.	3	1.3		4 c	0	nw.		0	0	fair	F. H. Brandenburg.
Williamsport, Pa	29.31	744.5	29.91	759.7	71	21.7	84	ne.	1	0.4			10 ks		sw.	0.47	11.9	threatening.	B. F. Hough.
Wilmington, N. Carolina	30.04	763.0	30.09	764.3	75.0	23.9	94	sw.	5	2.2		0	8 n		sw	0.04	1.0	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.81	655.6	30.07	763.8	49.5	9.7	56	ne.	5	2.2		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.70	729.0	29.98	761.5	58	14.4	69	nw.	5	2.2		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.09	754.1	29.83	757.7	70.5	21.4	57	w.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.00	762.0	83	28.3	72	e.	5	2.2		2 cs	1 s			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.			3	5 k	8 ks	e.	e.	0.300	7.6		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761.5	78	25.6	95	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Olsneros.
Rivas, Nicaragua, C. A.					75	23.9	92	ssw.					10 ks		ssw.	0.33	8.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas W. I.																			Aug. Wallon.
York Factory, B. A.	29.86	758.4	29.92	760.0	42.5	5.8	96	s.	16	7.2		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 44° 06′, E. 15° 13′	29.68	753.9	73	22.8	67	wnw.			2		3	wnw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.21	767.3	74	23.3	81	wnw.			2		2	wnw.						d. clouds.
H. M. S. Flamingo. N. 40° 40′, W. 59° 25′	30.08	764.0	62	16.7	88	nne.			1		2	nne.				1	nne.	d. clouds.
H. M. S. Gannet, N. 16° 53′, W. 25° 01′	30.04	763.0	76	24.4	73	ne.			4–6		4					3	n.	squally.
H. M. S. Himalaya, N. 33° 38′, E. 23° 53′	29.92	760.0	72	22.2	85	var.			1		1					2	wnw.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.92	760.0	75	23.9	?	wnw.			3		0							blue sky.
H. M. S. Minotaur, Vigo Bay, Spain	29.73	755.1	61	16.1	82	s.			4		6	sw.						d. clouds.
H. M. S. Opal, N. 15° 14′, W. 23° 50′	30.06	763.5	75	23.9	77	ene.			4		4	ene.				4	nne.	d. clouds.
H. M. S. Satellite, N. 40° 10′, W. 10° 00′	29.81	757.2	64	17.8	83	ssw.			5		6	wsw.				4	wsw.	d. clouds.
H. M. S. Superb, N. 37° 45′, E. 16° 44′*	29.80	756.9	71	21.7	80	w.			3–5							4	s.	d. clouds.
H. M. S. Tyne, N. 8° 25′, W. 42° 48′	30.00	762.0	77	25.0	91	ene.			6		10					5	ene.	overcast.
H. M. S. Tenedos, St. John's, N. F.	30.01	762.2	40	4.4	91	nnw.			2		10	nw.						overcast.
U. S. Navy Yard, Portsmouth, N. H *	29.82	757.4	65	18.3	84	calm	0	0			8		w.	0	0			foggy.
U. S. S. Lancaster, Kronstadt, Russia	29.76	755.9	56	13.3	100	sse.			4		10		e.			sm'h		squally.
U. S. S. Nipsic, New York, N. Y *	29.92	760.0	70	21.1	90	s.			2		5							fair.
U. S. S. Portsmouth, Newport, R. I.	29.94	760.5	59	15.0	100	s.			2		10							light fog.
U. S. S. Powhatan, Port Royal, S. C.	30.05	763.3	80	26.7	91	sse.			1		8		sw.					cloudy.
U. S. S. Quinnebaug, N. 3° 05′ W. 3° 10′	29.99	761.7	80	26.7	87	ssw.			3		8		ssw.			long	ssw.	cloudy.
U. S. S. Saratoga, Cold Spring, N. Y.	29.94	760.5	73	22.8	85	s.			2–3		5?		s.	light	light	sm'h		cloudy?
U. S. S. Vandalia, New York, N. Y	29.92	760.0	71	21.7	90	w.			1		5		calm					fair.
Inchkeith, N. 42° 17′, W. 29° 20′	29.98	761.5	59.5	15.3	85	n.			3		5							d. clouds.
H.P.M.S. Rio Lima, Porto Praya, Cape Verd Islands			77.0	25.0	84	ne.			3		0					3	ne.	blue sky.
S. S. Illinois, Philadelphia, Pa.	29.94	760.5	77	25.0		sw.			1		4		w.					fine.
S. S. Lord Clive, N. 40° 55′, W. 66° 05′ *	29.78	756.4				sw.			3		fg.			0	0	sm'h		dense fog.
S. S. Lord Gough, N. 40° 31′, W. 48° 01′	29.80	756.9	56	13.3		w.			4		8		w.	0	0	mod.	w.	cloudy.
S. S. Ohio, N. 45° 54′, W. 30° 59′ †	29.96	761.0	52	11.1		ene.			4		10		nnw.	0	0	mod.	ene.	cloudy.
S. S. Pennsylvania, N 39° 41′, W 51° 15′ †	29.84	757.9	63	17.2		nw.			4		7		nw.	8 h'r	8 h'r	r'gh	nw.	cloudy.
S. S. British Princess, Liverpool, Eng †	29.60?	751.8?				sse.			1		2		ese.	0	0			d. clouds.
S. S. Grecian, N. 50° 39′ W. 38° 12′	29.95	760.7	51	10.6	79	ssw.			1		10		ssw.	0	0	light	nnw.	cloudy.
S. S. Nova Scotian, N. 51° 59′ W. 13° 49	29.69	754.1	56	13.3		se.			4		8		se.			sm'h		fair.
S. S. Scandinavian, Lough Foyle, Ireland	29.77	756.1	52	11.1		ese.			3		8							misty.
S. S. Prussian, Glasgow, Scotland	29.78	756.4	60	15.6		se.			2		0			0	0			clear.
S. S. Sardinian, N. 46° 46′, W. 52° 28′			40	4.4		n.			6		10			0	0	h'vy	n.	overcast.
S. S. Jason, N. 47° 18′ W. 28° 40′ †	29.64	752.8	55.4	13.0		nnw.			4–6		8 n					6	nnw.	gloomy.
S. S. Alvo, off Cape Tiburon, Hayti, W. I*	29.98	761.5	80	26.7		e.			5		7		se.	0	0	long	ese.	squally.
S. S. Assyria, N. 47° 53′, W. 24° 49′	29.62	752.3	54	12.2		nw.			6		10		nw.			h'vy	nw.	overcast.
S. S. Dorian, N. 52° 25′, W. 5° 14′	29.79	756.7	58	14.4		calm			0		10			0	0	sm'h		foggy.
S. S. Furnessia, Liverpool, Eng †	29.69	754.1	60	15.6	94	e.			1		10			0	0			overcast.
S. S. Elysia, N. 47° 26′, W. 37° 40′	29.88	758.9	53.5	11.9		se.			4		10		se.	0	0	sli't	se.	cloudy.
S. S. Carroll, Charlottetown, Prince Edward Island*†	30.14	765.5	62	16.7	94	s.			3		4		s.	0	0			fair.
S. S. Jerome, N. 29° 08′, W. 65° 16′			73	22.8	?	ne.			3		8		ne.	1 h'r	1 h'r	sm'h	ene.	showery.
S. S. Llandaff City, N. 48° 28′, W. 29° 39′ †	29.86	758.4	55	13.3		e.			6		8		ne.	0	0	mod.	ne.	cloudy.
S. S. Marathon, Malta, Mediterranean	29.93	760.2	70	21.1		wnw.			6		2		wnw.	0	0	r'gh	wnw.	stormy.
S.S. Pavonia, N. 40° 27′, W. 67° 16′	29.95	760.7	63	17.2	89	sw.			3		5		w.	0	0	sm'h		hazy.
S. S. Scythia, N. 47° 00′ W. 39° 54′	29.74	755.4	57	13.9	100	ese.			5		10			3 h'r	3 h'r	mod.	se.	overcast.
S. S. Rhiwindda, N. 49° 47′, W. 31° 00′*†	30.00	762.0	54	12.2		nw.			3		6		n.	0	0	sm'h		fine.
S. S. France, N. 48° 05′, W. 20° 26 †	29.52	749.7	55.4	13		n			3		10		nne.	0	0	sm'h	nw.	threatening.
S. S. Ville de Marseilles, N. 44° 08′, W. 8° 30′*	29.64	752.8	55	12.8		sw.			6		10		wsw.	sh'rs	sh'rs	h'vy	wsw.	threatening.
S. S. Abyssinia, N. 41° 30′, W. 62° 54′	30.03	762.7	65	18.3	100	wsw.			4		10		wsw.	1 h'r	1 h'r	sm'h		dense fog.
S. S. Gellert, N. 43° 00′, W. 44° 40′			56	13.3	87	wnw.			4		8		nw.	3 h'r	3 h'r	r'gh	wnw.	cloudy.
S. S. Rugia, Hamburg, Germany	29.54	750.3	78	25.6		se.			4		0			0	0			clear.
S. S. Silesia, N. 41° 58′, W. 33° 26′	30.06	763.5	63.0	17.2		se.			3		3		se.	0	0	3	nw.	fair.
S. S. Wieland, N. 47° 12′, W. 31° 48′	30.02	762.5				nne.			3		10		ne.	0	0	sm'h	ene.	hazy.
S. S. City of Berlin, New York Bay, N. Y.	29.84?	757.9?	72	22.2	85	sw.			2		4			0	0			fine.
S. S. Mentmore, N. 40° 52′, W. 67° 24′ *†	30.08	764.0				s.			4		10		sw.	0	0	mod.	s.	dense fog.
S. S. Bulgarian, N. 49° 06′, W. 35° 00′*	30.03	762.7				se.			1		10		ese.	0	0	light	nw.	cloudy.
S. S. Hevelius, N. 11° 00′, W. 27° 30′			79	26.1		ene.			5		4		ene.	0	0	sm'h		fair
S. S. Ptolemy, N. 22° 45′ W. 22° 15′	30.16	766.1	75.5	24.2	64	ne.			5		4 k		ne.	0	0	3	ne.	fair.
S. S. Colorado, New York, N. Y †	29.95	760.7	65	18.3		ssw.			1		1		ssw.	1 h'r	1 h'r			clear.
S. S. Rio Grande, N. 36° 00′, W. 74° 12′*†	30.12	765.0	82	27.8		ssw.			3		1		sw.	1 h'r	1 h'r	mod.	s.	clear.
S. S. Chalmette, N. 28° 36′, W. 88° 32′ †	30.09	764.3	77	25.0		se.			4		6		se.	2 h'r	2 h'r	sm'h		fair.
S. S. New York, N. 28° 30′ W. 79° 45′*†	30.04	763.0	80	26.7		e.			3		2		e.			mod.	e.	clear.
S. S. Hermod, N. 16° 40′, W. 53° 40′ †	30.22	767.6	82	27.8		e.			4		6		e.	0	0	long	e.	fair.
S. S. Allegheny. Vineyard Sound, Mass †	29.90	759.4	66	18.9		ssw.			2		5		s.	12 h'r	12 h'r			squally
S. S. Archimede, N. 40° 59′, E. 11° 26′ †	29.89	759.2	77	25.0	77	nnw.			3		4		nw.	0	0	sm'h	nw.	fair.
S. S. City of Merida, N. 19° 11′, W. 96° 08′ †	29.97	761.2	81	27.2		nw.			1		5		nw.	0	0	light	se.	fair.
S. S. City of Washington, N. 23° 10′ W. 83° 30′ †	30.08	764.0	81	27.2		s.			3		8		s.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Denmark, N. 43° 45′, W. 40° 45′ †	29.59	751.6	64	17.8		w.			3		8		w.	3 h'r	3 h'r	r'gh	wsw.	cloudy.
S. S. England, N. 40° 34′, W. 50° 31′	29.79	756.7	58	14.4		wnw.			6		8		w.	0	0	high	w.	cloudy.
S. S. Erin, N. 40° 49′, W. 47° 45′	29.85	758.2	56	13.3		nw.			6		6		nw.	8 h'r	8 h'r	mod.	nw.	showery.
S. S. Helvetia, N. 51° 56′, W. 6° 40′	29.75	755.6	65	18.3	89	calm			0		0			2 h'r	2 h'r			dense fog.
S. S. The Queen, N. 42° 48′ W. 44° 21′	29.63	752.6	61	16.1	82	nnw.			4		10		nw.	5 h'r	5 h'r	con.	w.	misty.
S. S. Braunschweig, N. 42° 52′, W. 44° 01′	29.65	753.1	61.0	16.1	71	nnw.			4		10		nw.	6 h'r	6 h'r	long	nw.	cloudy.
S. S. Elbe, N. 42° 00′, W. 59° 08′	30.13	765.3	56	13.3	94	e.			2–3		0			0	0	sm'h	ne.	clear.
S. S. Habsburg, N. 49° 34′, W. 15° 17′	29.54	750.3				s.			5		5		s.	1 h'r	1 h'r	mod.	sse.	fair.
S. S. Hohenzollern, N. 52° 28′, E. 3° 19′	29.80	756.9	54	12.2		ne.			4		10		ne.	0	0	sm'h		overcast.
S. S. Hermann, N. 52° 01′, E. 2° 36′	29.72	754.9	55	12.8	87	nne.			2		4		nne.	0	0	mod.	nne.	fair.
S. S. Main, N. 40° 30′, W. 69° 03′	29.98	761.5	55	12.8		ssw.			3–4		5		ssw.	3 h'r	3 h'r	mod.	ssw.	foggy.
S. S. Ohio, N. 37° 30′, W. 72° 51′	30.05	763.3				wsw.			4		8		w.	0	0	sm'h	w.	foggy.
S. S. Salier, N. 43° 00′ W. 61° 05′*	30.06	763.5	50	10.0	79	se.			3		3		w.	0	0	high	wsw.	fair
S. S. Strassburg, N. 43° 18′, W. 41° 35′	29.57	751.1	67.5	19.7	92	sw.			1–2		8		sw.	14 h'r	14 h'r	2	sw.	cloudy.
S. S. Werra, N. 49° 50′, W. 6° 05′	29.80	756.8	61	16.1		ssw.			1–2		10		sw.	0	0	sm'h	sw.	overcast
S. S. Weser, N. 52° 21′, E. 3° 05′	29.79	756.7				nne.			3		10		ne.	0	0	mod.	ne.	overcast.
S. S. City of Augusta, New York, N. Y	29.98	761.5				ssw.			3		7		s.	0	0			fair.
S. S. Colon, New York, N. Y †	29.97	761.2	70	21.1		s.			6		0			0	0			clear.
S. S. Muriel, Guadeloupe, W. I.	30.09	764.3	80	26.7		e.			2		5		e.	0	0	sm'h		hazy.
S. S. Orinoco, Hamilton, Bermuda Islands, Atlantic †	30.30	769.6	78	25.6		nnw.			1		1			0	0			clear.
S. S. Rhyniand, Antwerp, Belgium	29.79	756.7	58	14.4	100	var.			5		4		sse.	0	0			fair.
S. S. Pennland, N. 41° 40′ W. 45° 50′	29.86	758.4	67	19.4	95	nnw.			6		4		n.	4 h'r	4 h'r	mod	wnw.	squally.
S. S. Switzerland, N. 41° 07′, W. 62° 03′ †	30.11	764.8				ese.			1		10		ese.	4 h'r	4 h'r	sm'h		cloudy
S. S. Waesland, N. 46° 41′, W. 31° 32′	30.03	762.7	53	11.7		nnw.			3		10		w.	5 h'r	5 h'r	long	nnw.	cloudy.
S. S. P. Caland, Jersey City, N. J	29.93	760.2	73.2	22.9	92	wsw.			1		4		sw.					fair.
S. S. Rotterdam, N. 46° 35′. W. 31° 50′	29.99	761.7	57	13.9	81	n.			1		9		n.	0	0	4	ne.	cloudy.
S. S. W. A. Scholten, Rotterdam, Holland	29.71	754.6	63.0	17.2	72	ne.			3		7		ne.	0	0			fair
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	79	26.1	89	ene.			1				e.	3 h'r	3 h'r	mod.	ne.	rainy.
S. S State of Georgia, N. 48° 42′, W. 34° 29′ †	30.02	762.5	56	13.3		e.			2		6		e.	0	0	long	ne.	fair.
S. S. State of Indiana, N. 50° 56′. W. 38° 30′ *†	29.88	758.9	52	11.1		n.			1		8			0	0	sm'h		cloudy.
S. S. State of Nevada, N. 40° 35′ W. 69° 47′ †	29.97	761.2	64	17.8		wsw.			4		fg.		wsw.	light	light	sm'h		dense fog.
S. S. Thingvalla, N. 52° 06′, W. 34° 30′ †	29.97	761.2	44.6	7.0		wnw.			3		10		wnw.	0	0	mod.	wnw.	overcast.
S. S. Toledo, N. 49° 26′, W. 4° 04′*†	29.85	758.2	60	15.6		sw.			3		3		sw.	0	0	sli't	sw.	clear.
S. S. Romano, N. 48° 21′, W. 15° 21′ †	29.50	749.3	58	14.4		s.			6		8		s.	3 h'r	3 h'r	r'gh	s.	showery
S. S. Olbers, N. 3° 33′, W. 27° 01′ †	30.02	762.5	86	30.0	86	se.			3		6		se.	¼ h'r	¼ h'r	mod	se.	fair.
S. S. Daniel Steinmann, N. 50° 54′, W. 17° 11′ †	29.51	749.5	68	20.0		ese.			1		0			0	0	mod.	nnw.	clear.
S. S. Plantyn, N. 50° 33′, W. 0° 13′	29.64	752.8							2		3		ese.	0	0	sm'h	sse.	misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Aries, N. 40° 10′, W. 73° 35′*†.	29.90	759.4				ssw.			4		fg.			.0	0	long	s.	dense fog.
S. S. Norman, N. 41° 09′, W. 71° 33′	29.79	756.7				wsw.			1		5		wsw.	2 h'r	2 h'r	sm'h		fair.
S. S. Saxon, Philadelphia, Pa†.	29.97	761.2				sw.			3		4			0	0			fair.
S. S. Adriatic, N. 49° 36′, W. 22° 55′ *†.	29.72	754.9	55	12.8		nnw.			6		10		nnw.	6 h'r	6 h'r	mod.	nnw	raining.
S. S. Baltic, N. 42° 06′, W. 52° 28′ *.	29.92	760.0	43	6.1	†	n.			6		9		n.	0	0	r'gh	n.	cloudy.
S. S. Britannic, N. 45° 37′, W. 46° 19′†.	29.67	753.6	44	6.7		nw.			3		10		nw.	5 h'r	5 h'r	mod.	n.	misty.
S. S. Celtic, N. 51° 08′, W. 15° 20′†.	29.58	751.3	67	19.4		s.			4		5		s.	0	0	sm'h		fair.
S. S. Iowa, N. 42° 27′, W. 64° 25′†.	29.98	761.5	49	9.4		se.			3		10		se.	4 h'r	4 h'r	sm'h		dense fog.
S. S. Antonio Lopez, Cadiz, Spain.	30.00	762.0	65.5	18.6	84	w.			3		3			0	0			clear.
Schr. Abbie H. Gheen, Jacksonville, Fla†.	30.21	767.3	79	26.1		s.			1									fair.
Bk. Aquidneck, N. 36° 38′, W. 64° 27′*†.	30.20	767.1				sw.			3		0			0	0	light	s.	clear.
Bg. Alcira, N. 29° 02′, W. 74° 00′.	30.20	767.1	79	26.1		ese.			4		3		se.	0	0	mod.	var.	hazy
Schr. Anna A. Holton, N. 38° 17′, W. 73° 43′ *†.	30.10	764.5	70	21.1		ssw.			5					0	0	mod.	ssw.	dense fog.
Schr. Arthur Burton, N. 31° 40′, W. 79° 43′ †.	30.17	766.3				s.			2		2		s.	0	0	mod.	s.	fine.
Bk. Aureola, N. 39° 50′, W. 44° 34′ †.	29.71	754.6	72	22.2		wnw.			6		10		nw.	6 h'r	6 h'r	h'vy	w.	gloomy.
Bk. Arda, Sackville, N. B.						sw.			3		10		sw.	2 h'r	2 h'r			cloudy.
Bk. Alba, N. 44° 00′. W. 54° 30′*†.	30.07	763.8	44.6	7.0		nnw.			6					0	0			
Bgt. Achsah, Boston Bay, Mass†.	29.82	757.4	65	18.3		ssw.			1		5		ssw.	0	0			foggy.
Bg. Belle of the Bay, Galveston, Texas†.	30.00	762.0				ese.			2		5		e.	0	0			fair.
Schr. C. R. Flint, N. 23° 45′, W. 85° 51′†.	30.01	762.2	81	27.2		ese.			1		2		ese.	0	0	short	sse.	fair.
Bk. Childwall, N. 47° 14′. W. 17° 32′.			58	14.4		var.			2		8		w.	2 h'r	2 h'r	sm'h		fine.
Bk. Cato, Bodöe, Norway *†.	29.95	760.7				ne.			4									
S. Criterion, N. 47° 00′, W. 40° 00′ *†.	29.70	754.4				ese.			6		10		ese.			light	wsw.	light rain.
Schr. Clotilde, Tampico Bar, Mexico *†.	29.91	759.7	83	28.3		calm			0		0			0	0	sm'h	ese.	
S. David Stewart, N. 12° 25′, W. 31° 22′†.	29.98	761.5				ene.			6		5		ene.	0	0	mod.	ene.	
U. S. D. J. Foley, N. 24° 36′ W. 74° 40′ *†.	30.10	764.5	80	26.7	82	ese.			4		4		ese.	0	0	long	ene.	fair.
Bkt. David A. Preston, Navassa, W. I.						se.			6		5		se.	0	0	long	se.	
S. E. J. Spicer, N. 49° 00′, W. 26° 00′.	29.74	755.4	52	11.1	93	nne.			7		10		nne.	18 h'r	18 h'r	high	nne.	cloudy.
Bk. E. D. Bigelow, N. 51° 31′, W. 7° 30′*†.	29.75	755.6	66	18.9		ssw.			2		0			0	0	sm'h		clear.
U. S. Fish Com. S. S. Fish Hawk, Point Lookout, Md †.	30.05	763.3	75	23.9	90	ssw.			3		9		sw.	0	0			cloudy.
Sch. F. E. Waters, Chesapeake Bay *†.	30.10	764.5				s.			3				sw.	0	0			cloudy.
Bk. George Davis, N. 55° 19′, W. 5° 14′.						ne.			5				ese.	0	0	sm'h		hazy.
Bgt. George, N. 35° 30′, W. 70° 25′*†.	30.15	765.8	74	23.3		sw.			3		2		sw.	0	0	mod	s.	fair.
Bk. Galeon, N. 21° 30′, W. 89° 05′†.	29.95	760.7	80	26.7		ese.			2		4		se.	0	0	sm'h	ene.	squally.
Bk. Heinrich & Tonio, N. 48° 36′, W. 16° 50′†.	29.42	747.3	66	18.9		s.			3		5		sw.	7 h'r	7 h'r	light	nw.	squally.
S. Hedwig, N. 37° 41′, E. 8° 29′.	29.94	760.5	73.0	22.8	82	wsw.			4		0			0	0	2	n.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C†.	30.09	764.3	78	25.6		s.			1		8		w.	0	0			cloudy.
Bk. Horace Scudder N. 0° 02′, W. 33° 09′ *†.	30.09	764.3	82	27.8		s.			4		3		s.	0	0	light	s.	fine.
Schr. Isabel Alberto, New York N. Y †.	29.92	760.0				s.			1		3		sw.	sh'rs	sh'rs			fair.
Bk. Johanne, N. 43° 14′, W. 14° 41′ *†.	29.50	749.3	62	16.7		sw.			4		8		w.	3 h'r	3 h'r	mod.	w.	squally.
Schr. John L. Thomas, Swan Id's, Caribbean Sea *†.	30.00	762.0				se.			3		10		s.	4 h'r	4 h'r	mod.	se.	rainy.
Bg. John Wesley, N. 33° 48′, W. 51° 20′ *†.	30.10	764.5	74	23.3		wsw.			5		4		wsw.	½h'r	½h'r	cross		fair.
Schr. Jennie N. Huddell, Charleston, S. C.†.	30.08	764.0	80	26.7		sw.			2		5		sw.	0	0			fair.
S. J. W. Gildemeister, N. 39° 32′, W. 71° 14′.	30.03	762.7	63.5	17.5	95	ssw.			4		8		ssw.	0	0	3	ssw.	misty.
Bkt. Kryohth, Ivigtut, Greenland*†.	29.85	758.2				nw.			2		2		w	0	0			clear.
Bg. L. & W. Armstrong, N. 36° 40′, W. 67° 50′ *†.	30.22	767.6				sw.			5		5		sw.			sm'h	sse.	light rain.
Light-house Tender Laurel, St. Marks Light, Fla †.	30.03	762.7	79	26.1		se.			3		8		se.	0	0			cloudy.
Bg. Lillian, N. 31° 55′, W. 72° 40′ †.	30.23	767.8	79	26.1		sse.			2		2		s.	0	0	mod.	se.	clear.
Bk. Louise Adelaide, off Matanzas, Cuba, W. I †.	30.06	763.5	78	25.6		se.			1		1			0	0			fair.
Bk. Milo, N. 43° 55′, W. 34° 00′†	29.90	759.4				s.			4				ssw.			long	ne.	fine.
S. S. Madrid, N. 36° 36′, W. 2° 32′†.	29.85	758.2	64	17.8	83	wsw.			6		0			0	0	mod	w.	fair.
Schr. Minnie A. Bonsall, Hoboken, N. J†.	29.99	761.7	78	25.6		s.			2				se.	0	0			clear.
Bk. Matilda C. Smith, N. 47° 19′, W. 17° 50′ †.	29.46	748.3				nne.			2		4		nne.	sh'rs	sh'rs	sm'h		threatening.
Bgt. Myrtle, Barbadoes, W. I *†.	30.10	764.5				ese.			4					0	0			fair.
Bk. Mathias, N. 49° 20′, W. 6° 20′.			60	15.6		ssw.			3		6		sw.	0	0	sm'h	ese.	hazy.
Schr. Maggie Abbott, N. 21° 15′, W. 74° 20′†.	30.02	762.5				ese.			5		3		ese.	3 h'r	3 h'r	mod.	se.	clear.
Bk. National Eagle, N. 38° 04′, W. 40° 35′.						w.			0		10		w.	3 h'r	3 h'r	mod.	w.	rainy.
Bg. O. C. Clary, N. 34° 05′, W. 64° 56′ *†.	30.22	767.6				sw.			3		0					sm'h	se.	clear.
Bk. Ottawa, N. 49° 18′, W. 5° 40′.	29.79	756.7	02	16.7		sw.			2		2		sw.	0	0	sm'h		clear.
S. Paramita, N. 14° 32′, W 36° 32′†.	30.03	762.7	78	25.6		ne.			6		3		ne.	0	0	long	ne.	fair.
S. S. Raleigh, N. 26° 00′, W. 74° 30′†.	30.13	765.3	77	25.0		e.			4		2		e.	0	0	mod.	ene.	clear.
Bg. Rising Sun, N. 15° 00′, W. 59° 00′ †.	30.00	762.0	80	26.7		e.			4		1		e.	0	0	short	e.	clear.
Bk. Rosino, N. 40° 22′, W. 28° 48′.			62	16.7		nw.			5		9?		n.	0	0	rg'h	nw.	clear.?
Bk. Sunbeam, N. 40° 08′, W. 46° 53′†.	29.70	754.4	66	18.9	89	wnw.			7		10		wnw.	6 h'r	6 h'r	r'gh	w.	cloudy.
Bk. Southern Belle, N. 27° 32′, W. 38° 20 †.	30.24	768.1	79	26.1		calm			0		0			0	0	mod.	se.	clear.
S. Sovereign of the Seas, N. 38° 12′, W. 61° 00′.			75	23.9	90	wnw.			2		3			0	0	sm'h	w.	hazy.
Bk. Usko, N. 51° 02′, E. 0° 46′*.	29.09	754.1	53	11.7	100	nne.			2					0	0	mod.	ene.	foggy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I *†.	30.08	764.0	79	26.1		calm			0		5		calm	6 h'r	6 h'r			fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†.	30.11	764.8	50.5	10.3	100	n.			4		4							d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony.	30.16	766.1	62	16.7		nw.			2		8							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata.	30.06	763.5	54.2	12.3	94	nnw.			2		7		calm					d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*.	30.09	764.3	51	10.6	86	nnw.	10	4.5			8		calm	0	0	sm'h		fair.
U. S. S. Galena, Montevideo, Uruguay*.	30.08	764.0	51	10.6	86	nnw.			2		5					sm'h		fair.
S. Wm. McGilvery, S. 23° 24′, W. 38° 49′ *†.	30.25	768.3	73	22.8	72	s.			4		0		wsw.	0	0	h'vy	sw.	
May Hulse, S. 18° 49′, W. 25° 30′.	30.10	764.5	72.2	22.3	91	sw.			3		10							drizzling.
Bk. Achille P, S. 0° —′, W. 30° —′†.	30.05	763.3	80	26.7	70	ese.			5		2		se.	4 h'r	4 h'r	mod.	se.	clear.
Bk. Alpheus Marshall, S. 20° 55′, E. 2° 45′ *†.	30.06	763.5				ese.			1		1		ese.	0	0	str'g	w.	clear.
Bk. Ceylon, S. 32° 32′, E. 11° 25′ *†.	30.08	764.0	68	20.0	90	wnw.			6		8		wnw.	sli't	sli't	r'gh	nw.	cloudy.
S. Dynomene, S. 26° 32′, E. 11° 35′.	30.15	765.8	66	18.9	89	w.			2		2			0	0	mod.	sw.	clear.
Bk. Adelaide, S. 10° 52′, W. 33° 15′*†.	30.12	765.0	82	27.8		se.			6		1		ese.	3 h'r	2 h'r	mod.	se.	clear.
H. P. M. S. Duque de Terceira, Mossamedes, Beng'la.	30.09	764.2	66.2	19.0	81	wsw.			2		8			0	0	1	sw.	d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Kin Foan Beacon, China.	29.92	760.0	73	22.8	81	ese.			4		4		ese.					d. clouds.
H. M. S. Champion, Labuan Id., Oceania.	29.77	756.1	86	30.0	90	var.			1		5							d. clouds.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 37′.	29.97	761.2	64.5	18.1	92	w.			1		2							d. clouds.
H. M. S. Magpie, N. 5° 16′, E. 115° 15′.	29.85	758.2	85.0	29.4	78	calm			0		2							misty.
H. M. S. Sheldrake, N. 7° 37′, E. 116° 56′.			83	28.3		calm			0		3							d. clouds.
H. M. S Zephyr, N. 34° 41′, E. 135° 12′.	30.01	762.2	70	21.1	95	calm			0		1							blue sky.
H. P. M. S. Tamega, Macao, China.	29.85	758.1	81.5	27.5	80	e.			4		3			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan.	30.12	765.0	61	16.1	88	se.			2		10		w.	0	0			gloomy.
U. S. S. Adams, off Point Retreat, Alaska†.	30.14	768.5	47	8.3	85	w.			1		2					sm'h		clear.
H. M. S. Essex, N. 9° 42′, W. 136° 32′.	29.86	758.4	77	25.0	91	nne.			3		10					mod.	ne.	raining.
U. S. S. Hartford, Honolulu Sandwich Ids*.	29.99	761.7	74	23.3	86	calm			0		0			0	0			clear.
U. S. S. Monocacy, Salee river, Corea.	29.98	761.5	64	17.8	89	wsw.			2		8		calm					misty.
U. S. S. Palos, Hong Kong, China.	29.77	756.1	78	25.6	86	e.			3		5		calm					fair.
U. S. S. Richmond, N. 22° 53′, E. 116° 23′*.	29.68	753.9	80	26.7	87	ene.			4		10		ene.	0	0	mod.	ne.	cloudy
S. S. Arabic, N. 47° 10′, E. 176° 05′.			41	5.0	100	nne.			4		4		ene.	0	0	mod.	ene.	fair.
S. S. Oceanic, N. 34° 06′, E. 137° 46′.	30.11	764.8	68	20.0	84	se.			0		0		se.			light	var.	cloudy.
S. S. Oregon, Portland, Oregon†.	30.38	771.6	62	16.7	94	calm			0		8		nw.					cloudy.
S. S. Ancon, N. 34° 14′, W. 119° 27′†.	30.02	762.5	61	16.1	88	ese.			2		10						w.	overcast.
S. S. City of Chester, off Cape Mendocino, Cal.†.	29.91	759.7	53	11.7	93	nw.			6		0					long	sw.	clear

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Dakota, New Tacoma, Wash. Ter †	30.33	770.4	57	13.9	87	w.			2		5		wnw.			sm'h	nw.	fair.
S. S. Queen of the Pacific, San Francisco, Cal †	30.02	762.5				calm			0		10			0	0			hazy.
S. S. City of Rio de Janeiro, Yokohama, Japan †	29.98	761.5	68	20.0	84	se.			3		8		s.			mod	se.	raining.
S. S. Colima, Mazatlan, Mexico †	29.91	759.7	65	18.3	94	wnw.			3		6		w.	0	0	small	wnw.	fair.
S. S. Granada, Acajutla, San Salvador †	29.91	759.7	78	25.6	78	n.			1		3		s.	6 h'r	6 h'r			clear
S. S. San Blas, Panama, Panama			80	26.7		ssw.			2		2		sw.	1 h'r	1 h'r			clear.
S. S. Zealandia, N. 29° 40′, W 144° 10′			92	33.3	90	nne.			6		10		n.			h'vy	ne.	dull.
S. S. Benledi, Nagasaki, Japan *	29.91	759.7	68	20.0	84	calm			0		0			0	0	sm'h		clear.
S. S. Radnorshire Yokohama, Japan *†	29.90	759.4				nw.			2		6		ene.	0	0			fair.
S. Sacramento. N 13° 10′. E. 119° 45′ *†	29.92	760.0	82	27.8	79	sw.			4		10		sw.	10 h'r	10 h'r	mod.	sw.	overcast.
S. St. David, N. 5° 50′, E. 106° 55′ *†	29.80	756.9	85.3	29.6	87	ssw.			1		7		ssw.	0	0	short	ssw.	hazy.
Bk. Xenia, Shanghai, China			85	29.4		ne.			6					0	0			clear.
H. M. S. Sappho, Acapulco, Mexico	29.93	760.2	82	27.8	96	calm			0		4	nw.						d. clouds.
U. S. S. Ranger, San Jose, Gautemala	29.92	760.0	80	26.7	87	ne.			2		10		ne.	0.85	21.6	long	ssw.	overcast.
S. Henry Failing, N. 35° 05, W. 122° 08′†	29.97	761.2	60	15.6		se.			2		fg.			0	0	long	nw.	foggy.
S. Grecian, Yokohama, Japan†	30.10	764.5	66	18.9	84	se.			4		10		se.	0	0			cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W *†	30.42	772.7	65	18.3	58	calm			0		1	sw.						blue sky.
H. M. S. Espiegle, S. 0° 19′, E. 174° 29′	29.93	760.2	81	27.2	70	ne.			1		0							blue sky
H. M. S. Kingfisher, S. 27° 08′, W. 125° 49′	29.90	759.4	68	20.0		se.			1		4					2	se.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.69	754.1	76	24.4	95	calm			0		10							raining.
U. S. S. Iroquois, Valparaiso, Chili	30.05	763.3	58	14.4	82	nnw.			4		10		n.					overcast.
U. S. S. Lackawanna, S. 22° 48′, W. 91° 09′*	30.04	763.0	69	20.6	80	wnw.			2		5		n.			sm'h	nw.	fair.
U. S. S. Onward, Callao, Peru†	30.10	764.5	64	17.8	83	sse.			3		10		sse.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.93	760.2	64	17.8	94	sse.	3	1.3			8		sse.	0	0			cloudy.
U. S. S. Wachusetts, S. 18° 06′, W. 150° 28′ *†	30.03	762.7	75	23.9	95	ese.			2		2		se.			mod.	s.	clear.
S. S. Australia, Sydney, N. S. W	30.05	763.3	55	12.8	93	calm			0		0			0	0			clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.90	759.4	82.3	27.9	81	calm			0		3							d. clouds.
S. S. City of Sydney, Sydney, N. S. W *†	30.37	771.4	56	13.3	87	wsw.			1		4		wsw.					hazy.
S. S. Gordon Castle, S. 23° 56′, E. 152° 12′ *	30.13	765.3	69.0	20.6	80	sse.			5–6		0							clear.
Bk. Chas. Stewart, S. 31° 20′, E. 155° 00′ †	30.36	771.1	70	21.1		s.			3		9		s.	0	0	mod.	se.	cloudy.
Bk. Edmund Phinney, Pisagua, Peru*†	30.05	763.3	60	15.6		ene			2		4			0	0	light	w.	light haze.
S. Parker M. Whitmore, S. 51° 25′, W. 86° 00′ *†	29.30	744.2	42	5.6		nnw.			7		10		nnw.	2 h'r	2 h'r	cross	var.	squally.
S. Storm King, S. 49° 47′, W. 79° 38′ *†	29.70	754.4				nnw.			8		9		w.	1 h'r	1 h'r	r'gh	w.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.05	763.3	81	27.2	87	s.			5		2	sse.				3	sse.	d clouds.
H. M. S. Tourmaline, N. 7° 30′, E. 82° 10′	29.70	754.4	87	30.6	80	se.			2		1	s.						blue sky.
U. S. S. Enterprise, St. Augustin Bay, Madagascar,	30.09	764.3	73	22.8	76	sw.			3		2		calm			sm'h		clear.
U. S. S. Juniata, N. 16° 44′, E. 71° 52′	29.70	754.4	82	27.8	100	w.			2		10		calm	h'vy	h'vy	long	sw.	cloudy.
S. S. Galatia, N. 12° 16′, E. 44° 14′*†	29.74	755.4	88	31.1		ese.			2		0			0	0	mod	se.	clear.
S. S. Malabar, Bassein, India *†	29.70	754.4				sw.			4		5		sw.	13 h'r	13 h'r	sm'h		raining.
S. Annie M. Law, S. 35° 26′ E. 23° 48′*†	29.60	751.8	70	21.1		ne.			1–5		4		ne.	0	0	con.	wsw.	fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Dakota, New Tacoma, Wash. Ter †	30.33	770.4	57	13.9	87	w.			2		5		wnw.			sm'h	nw.	fair.
S. S. Queen of the Pacific, San Francisco, Cal †	30.02	762.5				calm			0		10			0	0			hazy.
S. S. City of Rio de Janeiro, Yokohama, Japan †	29.98	761.5	68	20.0	84	se.			3		8		s.			mod	se.	raining.
S. S. Colima, Mazatlan, Mexico †	29.91	759.7	65	18.3	94	wnw.			3		6		w.	0	0	small	wnw.	fair.
S. S. Granada, Acajutla, San Salvador †	29.91	759.7	78	25.6	78	n.			1		3		s.	6 h'r	6 h'r			clear
S. S. San Blas, Panama, Panama			80	26.7		ssw.			2		2		sw.	1 h'r	1 h'r			clear.
S. S. Zealandia, N. 29° 40′, W 144° 10′			92	33.3	90	nne.			6		10		n.			h'vy	ne.	dull.
S. S. Benledi, Nagasaki, Japan *	29.91	759.7	68	20.0	84	calm			0		0			0	0	sm'h		clear.
S. S. Radnorshire Yokohama, Japan *†	29.90	759.4				nw.			2		6		ene.	0	0			fair.
S. Sacramento. N 13° 10′. E. 119° 45′ *†	29.92	760.0	82	27.8	79	sw.			4		10		sw.	10 h'r	10 h'r	mod.	sw.	overcast.
S. St. David, N. 5° 50′, E. 106° 55′ *†	29.80	756.9	85.3	29.6	87	ssw.			1		7		ssw.	0	0	short	ssw.	hazy.
Bk. Xenia, Shanghai, China			85	29.4		ne.			6					0	0			clear.
H. M. S. Sappho, Acapulco, Mexico	29.93	760.2	82	27.8	96	calm			0		4	nw.						d. clouds.
U. S. S. Ranger, San Jose, Gautemala	29.92	760.0	80	26.7	87	ne.			2		10		ne.	0.85	21.6	long	ssw.	overcast.
S. Henry Failing, N. 35° 05, W. 122° 08′†	29.97	761.2	60	15.6		se.			2		fg.			0	0	long	nw.	foggy.
S. Grecian, Yokohama, Japan†	30.10	764.5	66	18.9	84	se.			4		10		se.	0	0			cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W *†	30.42	772.7	65	18.3	58	calm			0		1	sw.						blue sky.
H. M. S. Espiegle, S. 0° 19′, E. 174° 29′	29.93	760.2	81	27.2	70	ne.			1		0							blue sky
H. M. S. Kingfisher, S. 27° 08′, W. 125° 49′	29.90	759.4	68	20.0		se.			1		4					2	se.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.69	754.1	76	24.4	95	calm			0		10							raining.
U. S. S. Iroquois, Valparaiso, Chili	30.05	763.3	58	14.4	82	nnw.			4		10		n.					overcast.
U. S. S. Lackawanna, S. 22° 48′, W. 91° 09′*	30.04	763.0	69	20.6	80	wnw.			2		5		n.			sm'h	nw.	fair.
U. S. S. Onward, Callao, Peru†	30.10	764.5	64	17.8	83	sse.			3		10		sse.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.93	760.2	64	17.8	94	sse.	3	1.3			8		sse.	0	0			cloudy.
U. S. S. Wachusetts, S. 18° 06′, W. 150° 28′ *†	30.03	762.7	75	23.9	95	ese.			2		2		se.			mod.	s.	clear.
S. S. Australia, Sydney, N. S. W.	30.05	763.3	55	12.8	93	calm			0		0			0	0			clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.90	759.4	82.3	27.9	81	calm			0		3							d. clouds.
S. S. City of Sydney, Sydney, N. S. W *†	30.37	771.4	56	13.3	87	wsw.			1		4		wsw.					hazy.
S. S. Gordon Castle, S. 23° 56′, E. 152° 12′ *	30.13	765.3	69.0	20.6	80	sse.			5–6		0							clear.
Bk. Chas. Stewart, S. 31° 20′, E. 155° 00′ †	30.36	771.1	70	21.1		s.			3		9		s.	0	0	mod.	se.	cloudy.
Bk. Edmund Phinney, Pisagua, Peru*†	30.05	763.3	60	15.6		ene			2		4			0	0	light	w.	light haze.
S. Parker M. Whitmore, S. 51° 25′, W. 86° 00′ *†	29.30	744.2	42	5.6		nnw.			7		10		nnw.	2 h'r	2 h'r	cross	var.	squally.
S. Storm King, S. 49° 47′, W. 79° 38′ *†	29.70	754.4				nnw.			8		9		w.	1 h'r	1 h'r	r'gh	w.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.05	763.3	81	27.2	87	s.			5		2	sse.				3	sse.	d clouds.
H. M. S. Tourmaline, N. 7° 30′, E. 82° 10′	29.70	754.4	87	30.6	80	se.			2		1	s.						blue sky.
U. S. S. Enterprise, St. Augustin Bay, Madagascar,	30.09	764.3	73	22.8	76	sw.			3		2		calm			sm'h		clear.
U. S. S. Juniata, N. 16° 44′, E. 71° 52′	29.70	754.4	82	27.8	100	w.			2		10		calm	h'vy	h'vy	long	sw.	cloudy.
S. S. Galatia, N. 12° 16′, E. 44° 14′*†	29.74	755.4	88	31.1		ese.			2		0			0	0	mod	se.	clear.
S. S. Malabar, Bassein, India *†	29.70	754.4				sw.			4		5		sw.	13 h'r	13 h'r	sm'h		raining.
S. Annie M. Law, S. 35° 26′ E. 23° 48′*†	29.60	751.8	70	21.1		ne.			1–5		4		ne.	0	0	con.	wsw.	fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 8, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.96	760.9	74.1	23.4	86	se.			1		0			0	0	clear	Malaterre.
Algiers			29.94	760.4	74.1	23.4	59	n.			4		0			c	0	clear	Thève.
La Calle			29.87	758.7															Fonfrède.
Tunis			29.92	760.0															Jacques.
Saida			30.00	762.0															Pérès.
Tebessa			29.99	761.8	87.1	30.6	28	se.			2		0			0	0	clear	St. Martin.
Geriville					87.8	31.0	1	sw.			5		0			0	0	clear	Forfert.
Laghouat			29.95	760.8	90.7	32.6	12	se.			6		1			0	0	pretty fair	Abraham.
Biskra			29.93	760.2	94.6	34.8	41	e.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.37	771.4	54.2	12.3	79	n.	6	2.7			1 k			0.067	1.7	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.25	768.3	30.35	770.9	52.1	11.2	86	sse.	4	1.8			10			0.01	0.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.24	742.8	29.76	756.0	78.1	25.6	51	sw.			3		1			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.01	736.8	29.74	755.3	76.6	24.8	62	ne.	0	0			7			0	0		Dr. Wierzbiski
Eperies	28.89	733.9	29.73	755.1	75.2	24.0	65	n.			2		7 s			0	0		Julius Mikolik.
Gratz	28.54	725.0	29.73	755.1	75.9	24.4	70	sw.			1		3			0	0	lightning	Andreas Rospini.
Hermannstadt	28.33	719.5	29.67	753.7	77.4	25.2	54	se.			3		8			0.193	4.9		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.43	722.2	29.70	754.3	76.6	24.8	56	ne.			1		2			0.193	4.9		The Staff.
Lemberg	28 85	732.9	29.80	756.9	71.1	21.7	74	e.			3		9			0.106	2.7		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.77	756.2	29.88	758.9	75.6	24.2	71	wsw.			3		2			0	0		I. R. Hydrographic Office.
Szathmar	29.24	742.6	29.68	753.8	80.2	26.8	44	ne.			2		8			0	0		Joseph Midlinszky, S. J.
Szegedin	29.46	748.3	29.73	755.1	73.2	22.9	64	sw.			2		8			0	0		Karl Stancel.
Trieste	29.74	755.5	29.84	758.0	78.4	25.8	60	sw.			1		3			0	0		Royal Academy.
Vienna	29.08	738.6	29.76	756.0	76.1	24.5	56	ne.			1		1			c	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.62	752.3	29.72	754.9	54.7	12.6	68	sse.	16	7.2			2			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.54	750.3	29.76	755.9	60.2	15.7	78	s.	1	0.4			9					d. clouds	S. Oall.
Bidston, Liverpool Obs'y			29.75	755.6	61.0	16.1	69	ese.	15	6.7			10					overcast	John Hartnup.
Bolton, Sharples	29.23	742.4	29.76	755.9	61.6	16.4	69	ssw.	6	2.7			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.37	746.0	29.76	755 9	61.5	16.4	61	se.			1		10			0.14	3.6	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	80.0	26.7	85	ne.			2		8					overcast	Corpl. W. I. Cull, A.H.C.
Cardington	29.70	754.4	29.80	756.9	68.0	20.0	65	s.			0.4		8					overcast	John McLaren.
Chatham, School M. E.	29.67	753.6	29.80	756.9	62.6	17.0	70	ne.			1		5					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.54	750.3	29.76	755.9	54.0	12.2	87	ese.			3		10					overcast	The Staff.
Fort Napier, Natal	27.74	704.6	29.96	761.0	74.5	23.6	24				1		6					d. clouds	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.75	755.6	29.90	759.4	79.0	26.1	91	sw.			2		5					raining	J. W. Smith.
Galway, Queen's College	29.66	753.4	29.69	754.1	62	16.7	83	e.			1		5			0.03	0.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.98	761.5	30.04	763.0	71.2	21.8	86	nw.			2		2					blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.53	750.0	29.73	755.1	61.7	16.5	60	sw.			2		9					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.63	752.6	29.80	756.9	62.2	16.8	65	ese.			1		10					overcast	The Staff.
Guernsey	29.49	749.0	29.78	756.4	59.1	15.1	91	e.			1		4					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.77	756.1	29.81	757.2	61.1	16.2	61	e.	7	3.1			10					overcast	The Staff.
Leicester, Museum	29.52	749.8	29.77	756.1	62.0	16.7	73	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.95	760.7	30.02	762.5	73.2	22.9	94	nw.					2					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.04	763.0	30.08	764.0	86.0	30.0	68	se.			2		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.28	743.7	29.79	756.7	59.5	15.3	81	s.			1		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.56	750.8	29.79	756.7	61.7	16.5	62	calm			0		9					overcast	The Staff.
Plymouth	29.69	754.1	29.76	755.9	59.0	15.0	76	ese.			3		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.56	750.8	29.66	753.4	48.3	9.1	94						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.72	754.9	29.78	756.4	84.2	29.0	60	s.			1		1					blue sky	W. H. Lyne.
Sheffield	29.51	749.5	29.78	756.4	64.0	17.8	75	ssw.			1		7			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.73	755.1	29.76	755.9	60.6	15.9	67	nw.			1		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.78	756.4	58.2	14.6	73	ne.	1	0.4			10					misty	W. C. Carlisle.
Truro, Royal Institution	29.73	755.1	29.82	757.4	60	15.6	76	e.			2		10					gloomy	W. Newcombe.
Valencia, Observatory	29.72	754.9	29.74	755.4	62.1	16.7	67	sw.	13	5.8			3					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.68	753.9	30.07	763.8	75.5	24.2	43	w.	9.3	4.2						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.56	750.8	29.60	751.8	57	13.9	94	sw.	6	2.7			10 n		sw.	0.255	6.4	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.54	750.3	29.60	751.8	59	15.0	100	sw.	6	2.7			10 n		sw.	0.17	4.3	cloudy	G. A. Blair.
Cornwall, Ontario	29.53	750.0	29.71	754.6	61.3	16.3	89	w.			2		10 s			0.020	0.5	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.								calm			0					0.170	4.3	blue sky	H. A. Johnson.
Father Point, Quebec*	29.55	750.6	29.58	751.3	47	8.3	89	w.	10	4.5			fg.			inap.	inap.	foggy	J. McWilliams.
Fort Garry, Manitoba*	29.14	740.1	29.98	761.5	43	6.1	96	n.	18	8.0			10 n			0.42	10.7	light rain	James Stewart.
Fredericton, N. B.	29.58	751.3	29.65	753.1	58.0	14.4	88	s.	3	3.1			10			0.660	1.5	dense mist	Prof. Harrison, L. L. D.
Granton, Ontario	28 81	731.8	29.90	759.4	53.0	11.7	86	nw.	2	0.9		0	0			0	0	clear	Jas. Grant.
Halifax, N. S*	29.57	751.1	29.69	754.1	52	11.1	100	w.	4	1.8			fg.			0.122	3.1	foggy	A. Allison.
Hamilton, Ontario	29.44	747.8	29.82	757.4	63.7	17.6		sw.			1		0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.45	748.0	29.78	756.4	59	15.0	87	sw.	4	1.8		0	8 k		W.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.60	751.8	29.64	752.8	57.0	13.9	93	s.			4		10 n			0.48	12.2	lightning	C. H. Rigby.
London, Ontario	29.03	737.3	29.92	760.0	56.7	13.7	81	w.			2	1 cs	0			0	0	blue sky	E. B. Reed.
Montreal, Quebec*	29.50	749.3	29.70	754.4	62	16.7	87	sw.	10	4.5		5 ck	5 ks	W.	W.	inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.49	749.0	29.72	754.9	61.9	16.6	78	w.			2	10 cs	0			0	0	fair	A. McGill, M. A.
Parry Sound, Ontario*	29.14	740.1	29.83	757.7	53	11.7	86	s.	1	0.4		2 k	0	W.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.18	741.2	29.90	759.4	63.7	17.6	73	w.			1	3 c	0	W.		0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.19	741.4	29.87	758.7	59	15.0	76	nw.	7	3.1		0	0			0	0	clear	H Morgan.
Port Stanley, Ontario	29.26	743.2	29.89	759.2	58	14.4	74	nw.	3	1.3		2 ck	0	W.		0	0	clear	M. Payne.
Quebec, Quebec*	29.29	744.0	29.63	752.6	60	15.6	93	sw	8	3.6			10 ks			0.02	0.5	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.31	744.5	29.75	755.6	61	16.1	78	w.	1	0.4		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N .B	29.60	751.8	29.65	753.1	52	11.1	96	calm	0	0			10 n			0.32	8.1	cloudy	
St. John, N. B	29.50	749.3	29.66	753.4	51.0	10.6	93	sw.	4	1.8			10 n			0.560	14.2	raining	G. Murdock, C. E.
Saint John's, N. F.	29.87	758.7	30.02	762.5	52	11.1	79	w.			2	0	0			0.02	0.5	blue sky	J. Higgins.
St. Pierre, N. F.			29.80	756.9	44.6	7.0		sw.			2					0	0		The Commandant.
Saugeen, Ontario*	29.17	740.9	29.89	759.2	47	8.3	89	w.	6	2.7		0	0			0	0	clear	
Stratford, Ontario	28.65	727.7	29.91	759.7	54.3	12.4	81	nw.	6	2.7		0	0			0	0	clear	C. J. Macgregor, M A.
Sydney, C. B*	29.60	751.8	29.66	753.4	53	11.1	96	sw.	10	4.5			10n			0.17	4.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.48	748.8	29.85	758.2	60	15.6	93	nw.	5	2.2		0	2 ks		nw.	0	0	clear	Magnetic Observatory.
Windsor, N. S	29.56	750.8	29.66	753.4	57.5	14.2	91	w.	4	1.8			10 n			0	0	overcast	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.74	730.0	29.78	756.4	58.8	14.9	78	w.	10	4.5		0	0			0	0	blue sky	Prof Wolverton, M.A.
Yarmouth, N. S*	29.65	753.1	29.72	754.9	49	9.4	100	sw.	3	1.3			fg.			0.03	0.8	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.16	766.1	30.19	766.8	67.0	19.4	68	calm	6.0	2.7		4 c	0			0	0	fair	John Duffie
Springbok Fontein	28.08	713.2			68	20.0	28	nw.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.67	753.6	29.78	756.4	72.9	22.7	81	ne.			1		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.85	758.2	29.87	758.8	70.7	21.5	82	se.	16.8	7.5		6 cs	0			0	0		M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.75	755.7	29.80	756.9	64.4	18.0	67	nne.	9	4			10						Oversergent Fischer.
Fanoe	29.84	757.8	29.85	758.3	57.4	14.1	59	wnw.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.39	746.4	29.43	747.5	33.1	0.6	96	s.			4		10					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.56	750.7	29.60	751.9	38.5	3.6		calm			0		3						
Stykkisholm, Iceland	29.72	754.8	29.76	755.9	47.8	8.8	83	s.			2		8						A. O. Thorlacius.
Thorshavn	29.64	752.8	29.66	753.4	57.6	14.2	79	n.	16	7			5						Overloerer Bergh.
Vestervig	29.76	756.0	29.85	758.3	58.1	14.5	64	w.			2		1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.74	755.5			101.1	38.4		e.	7.2	3.2		0	0			0	0		Albert Ismaïun.
FRENCH.																			
Agen, Normal School	29.24	742.8	29.87	758.8	61.2	16.2	83	se.			1	0	2 k			0.929	23.6	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.26	743.2	29.81	757.2	65.5	18.6	69	ssw.			1	0	2 k		nne.	0.12	3.	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.79	756.6	29.87	758.6	79.5	26.4	60	w.			1		2		sw.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.26	743.3	29.81	757.2	62.2	16.8	80	ssw.			1		8		sw.	0.185	4.7	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.56	750.8	29.82	757.4	60.4	15.8	81	sse.			1		10		sse.	0.114	2.9	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.93	734.9	29.80	756.8	71.6	22	74	sw.			2	0	0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.58	751.4	29.84	757.9	69.3	20.7	50	ese.			1		5		sw.	0.776	19.7	cloudy	M. Rayet, Director.
Bourges, Normal School	29.26	743.1	29.78	756.5	71.6	22	43	ssw.			4		n		ssw.	0.20	5.		M. Malet, Director.
Brest, Naval Observatory	29.54	750.4	29.79	756.6	63.0	17.2	88	wsw.			2		9		wsw.	0.020	0.5	stormy	M. de Kermarée, Dir.
Caen, Normal School	29.51?	749.5?	29.58?	751.3?	67.6	19.8	72	wsw.			1		5		wsw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.46	748.3	29.77	756.2	64.9	18.3	80	s.			1		8	sw.	se.	0.260	6.6	very cloudy.	M. Jadot, Director.
Charleville, Normal School	29.29	743.9	29.78	756.5	65.7	18.7	78	ese.			2		10			0	0	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.50	723.8	29.79	756.6	75.6	24.2	44	w.			2		5 k		wsw.	0.020	0.5	½ covered	M. Alluard, Director.
Cluny, Normal School	29.01	736.9	29.84	757.8	74.3	23.5	47	calm			0		2			0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.97	735.8	29.80	757.0	62.8	17.1	94	wsw.			1		10 n	wsw.	wsw.	0.122	3.1	raining	Dr. Coulet, Director.
Gap, Normal School	27.39	695.7	29.81	757.2	73.4	23	66	n.			2	0	1 k		s.	0.31	8.		M. Jeangirard, Director.
Gréasque, du Rhone	28.78	731.1	29.87	758.6	74.5	23.6	41	s.			3		3		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.08	738.5	29.82	757.4	72.0	22.2	64	nw.			3	ck	0	s.		0	0		M. Ablard, Director.
Guéret, Normal School	28.29	718.6	29.82	757.5	68.0	20	60	sw.			1		cn		sw.	0.295	7.5		M. Delorme, Dir.
Lamballe, Normal School	29.67	753.7	29.94	760.5	63.7	17.6	76	s.					k		s.	0.24	6.		M. Ollitrault, Director.
Lescar, Normal School	29.25	743.1	29.80	756.8	78.8	26.0	35	se.			1	0	2 k			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.69	754.2	29.80	756.8	67.3	19.6	72	sse.			2		10	calm	s.	0.236	6.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.80	731.6	29.82	757.4	72.7	22.6	44	s.			1	0	5 k		sw.	0.028	0.7	cloudy	M. André, Director.
Mans, Normal School	29.51	749.6	29.81	757.2	66.7	19.3	74	nw.			3		5		w.	0.138	3.5	cloudy	M. Piboën, Director.
Marseille, Observatory	29.63	752.6	29.89	759.2	75.2	24.0	55	sse.			1		4		wsw.	0	0		M. Stephan, Director.
Montlouis	24.80	629.8	29.64	752.8	59.9	15.5	20	sw.	18.6	8.3			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.72	755.0	29.85	758.1	76.3	24.6	74	se.			3		5		se.	0	0	fair	M. Galzin, Director.
Nancy, Normal School	29.05	737.9	29.82	757.5	63.3	17.4	88	ssw.			1		kn			0.004	0.1		M. Hasse, Director.
Nantes, Observatory	29.69	754.1	29.85	758.2	68.2	20.1	63	w.			0–1		10 kn		sw.	0.039	1.0		M. Larocque, Director.
Perpignan, Observatory	29.77	756.1	29.87	758.8	72.0	22.2	54	ne.	9.4	4.2			9	sw.	ssw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.16	537.3			37.4	3.0		sw.			1		5	ne.	sw.	0.157	4.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.80	731.6	29.82	757.3	76.5	24.7	47	s.			4		10		s.	0.165	4.2	thund'r st'm	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.08	637.0			48.7	9.3	77	wsw.			3	0	5 k		wsw.	0.146	3.7	½ covered	M. Alluard.
Rochefort, Naval Obs'y	29.80	756.9	29.83	757.7	73.4	23.0	56	calm			0		2		s.	0.98	25.	¼ covered	Lt. E. Decaute, Director.
Roche-sur-Yon, N. School	29.55	750.6	29.76	755.8	69.4	20.8	69	ssw.			1		5		sw.	0.39	10.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.87	707.9	29.95	760.8	69.3	20.7		calm			0	1 c	0	nw.		0.323	8.2	clear	M. Seger, Director.
Rouen, Normal School	29.76	755.9	29.81	757.1	64.0	17.8	72	sse.			1		10	sse.		0.028	0.7	covered	M. Moullilot, Dir.
Saint Maur, Observatory	29.65	753.2	29.82	757.3	63.1	17.3	77	w.			1		10		wsw.	0.362	9.2		M. Renou, Director.
Toulouse, Observatory	29.21	741.8	29.93	760.1	66.6	19.2	84	n.			1		2		sw.	0.528	13.4	slightly cl'dy	M. Baillaud, Director.
Tours	29.64	752.8	29.82	757.3	69.8	21.0	57	sw.			1	0	1 k	w.	sw.	0.417	10.6	clear	M. de Tastes.
Versailles, Observatory	29.33	744.9	29.82	757.4	61.2	16.2	85	w.			1					0.079	2.0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.71	754.5	29.85	758.3	74.5	23.6	54	w.	11.9	5.3		0	2 k		w.	0.323	8.2		M. Cartier, Director.
GERMAN.																			
Ansbach	28.39	721.2	29.77	756.1	74.5	23.6	49	e.			2		6	e.		0	c		Prof. Jnedt.
Bamberg	28.94	735.1	29.78	756.3	73.6	23.1	60	sw.			3		10 n		sw.	0.173	4.4		Prof. Dr. Hoh.
Berlin	29.63	752.5	29.76	756.0	76.3	24.6	45	w.			1		9			0.016	0.4		Dr. Sensch.
Breslau	29.29	743.9	29.82	757.3	79.0	26.1	41	se.			3		5			0	0		Royal University Obs'y.
Carlsruhe	29.34	745.1	29.78	756.3	72.3	22.4	63	n.			1		10	sw.		0.177	4.5		Albert Senz.
Cassel	29.06	738.2	29.78	756.3	74.5	23.6	52	ne.			2		8	sw.				thund'r st'm	Dr. H. Möhl.
Frankfort-on-the-Main			29.77	756.2	72.9	22.7	53	s.			1		6			0	0		Physical Society.
Friedrichshafen	28.41	721.7	29.78	756.5	67.3	19.6	82	ssw.			2		9	sw.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.74	755.4	29.83	757.7	65.5	18.6	65	n.			2		3	wsw.		0.008	0.2		E. Preller.
Kiel	29.82	757.5	29.84	757.9	60.3	15.7	61	ne.			2		7			0.016	0.4		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.41	746.9	29.81	757.2	71.2	21.8	55	nw.			1		9	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.61	752.0	29.79	756.6	72.7	22.6	54	wnw.			1		8	wnw.		0	0		Weather Observatory
Memel	29.93	760.3	29.98	761.5	72.1	22.3	42	sw.			2		2 ck						Issermann.
Munich	28.02	711.6	29.87	758.6	69.6	20.9	64	nw.			1		8	w.		0	0		Central Station.
Neufahrwasser	29.87	758.8	29.89	759.2	72.0	22.2	42	e.			2		0			0	0		A. Lothes.
Neustadt, Palatinate	29.24	742.6	29.76	755.8	67.6	19.8	65	w.			3		10	w.		0.177	4.5		Dicknether.
Stuttgart	28.84	732.4	29.69	754.0	72.5	22.5	55	w.			1		9	w.		0.571	14.5	thund'r st'm	Prof. Dr. Schoder.
Wustrow	29.78	756.5	29.81	757.2	61.3	16.3	78	n.			2		8 k		s.	0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.50	749.3	29.87	758.6	78.3	25.7		sw.			1.0		1 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.46	748.2	29.51	749.5	89.1	31.7	77	sw.	26.0	11.6			4		sw.	0	0	d. clouds	
Deesa	29.00	736.6	29.45	748.0	104.6	40.3	23	ssw.	14.0	6.3			0			0	0	blue sky	
Bombay	29.59	751.6	29.63	752.6	85.9	29.9	80	ssw.	11.0	4.9			10		w.	0.08	2.0	overcast	
Poona, Yarrowda	27.81	706.3	29.67	753.6	74.2	23.4	90	nw.	19.0	8.5			10			0.70	17.8	overcast	
Trichinopoly	29.43	747.6	29.71	754.6	88.0	31.1	59	wnw.	3.0	1.3			7	nne.	ne.	0	0	d clouds	
Belgaum	27.20	690.8	29.74	755.4	72.8	22.7	81	wnw.	11.0	4.9			7	s.	w.	0.09	2.3	d. clouds	
Lahore	28.63	727.2	29.33	744.9	105.3	40.7	26	ne.	4.0	1.8			6			0	0	d. clouds	
Roorkee	28.56	725.4	29.43	747.5	89.2	31.8	38	n.	12.0	5.4			4		n.			thund'r st'm	
Agra	28.87	733.3	29.42	747.2	90.2	32.3	39	s.	8.0	3.6			10		s.	0	0	overcast	
Nagpur	28.46	723.0	29.48	748.7	89.7	32.1	43	nnw.	8.0	3.6			8		sw.	0.03	0.8	gloomy	
Jubbulpore	28.12	714.3	29.41	747.1	98.5	36.9	46	sw.	6.0	2.7			8		sw.	0	0	d. clouds	
Lucknow	29.03	737.4	29.39	746.5	103.4	39.7	29	wnw.	2.0	0.9			0			0	0	blue sky	
Allahabad	29.09	738.8	29.38	746.3	102.8	39.3	30	ne.	6.0	2.7			0			0	0	blue sky	
Patna	29.22	742.2	29.40	746.7	99.1	37.3	32	nw.	2.5	1.1			5	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.47	697.8	29.39	746.6	94.7	34.8	27	n.	4.6	2.1			10			0	0	overcast	
Cuttack	29.40	746.7	29.48	748.7	85.0	29.4	70	w.	7.0	3.1			8			1.19	30.2	d. clouds	
Calcutta, Alipore	29.40	746.8	29.42	747.4	91.7	33.2	69	s.	9.0	4.0			9	sw.	sw.	0	0	d. clouds	
Dhubri	29.35	745.4	29.46	748.3	84.7	29.3	73	calm	3.0	1.3			9			0	0	d. clouds	
Chittagong	29.43	747.6	29.52	749.8	81.5	27.5	89	calm	2.2	1.0			8			0	0	d. clouds	
Sibsagar	29.18	741.3	29.51	749.6	86.2	30.1	77	ne.	2.0	0.9			10	w.	w.	0	0	d. clouds	
Seypore	28.05	712.5	29.45	747.9	91.9	33.3	60	sse.	9.8	4.4			5		sse.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Zanzibar	30.03	762.8	30.06	763.4	82.7	28.2	46	ssw.	12.4	5.5			4			0	0	d. clouds	
Bellary	28.15	715.0			90.0	32.2	38	w.	18	8		4 ck	6			0	0	gloomy	
ITALIAN.																			
Udine	29.46	748.2	29.85	758.2	77.5	25.3	61	sw.	3.1	1.4			7			0	0		Prof. Giovanni Clodig.
Milan	29.37	746.6	29.87	758.7	74.5	23.6	58	sse.					7	sw.		0	0		Prof. G.V.Schiapparelli.
Padua	29.74	755.3	29.84	758.0	75.9	24.4	52	w.	14.3	6.4			2	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.96	735.5	29.84	757.8	73.6	23.1	64	ese.	3.1	1.4			6	n.		0.157	4.0		Prof. F. F. Denza.
Genoa	29.75	755.7	29.94	760.5	69.3	20.7	67	se.	9.8	4.4			10	s.		0.004	0.1		Prof. G. M. Garibaldi.
Mondovi	27.97	710.3	29.82	757.5	71.4	21.9	69	nnw.			2		1	nne.		0	0		Prof. D. C. Bruno.
Pesaro	29.82	757.5	29.87	758.7	74.1	23.4	61	se.	11.2	5.0			10			0	0		Prof. Luigi Guidi.
Florence	29.70	754.3	29.95	760.6	73.9	23.3	50	sw.			2		5			0	0		Prof. Costantino Pittei.
Leghorn	29.82	757.5	29.91	759.6	72.7	22.6	61	wsw.	6.3	2.8			3			0	0		Prof. P. Monte.
Rome	29.79	756.7	29.96	761.0	76.5	24.7	59	sse.	5.6	2.5			5			0	0		Prof. P. Tacchini.
Lecce	29.67	753.7	29.92	759.9	77.0	25.0	50	ne.	10.5	4.7			2			0.102	2.6		Prof. C. de Giorgi.
Cosenza	29.11	739.5	29.97	761.2	77.0	25.0	68	wsw.	2.5	1.1			2	sw.		0	0		Prof. D. Conti.
Cagliari	29.74	755.3	29.92	760.0	77.4	25.2	43	se.			2		7			0	0		Prof. A. Pacinotti.
Palermo	29.80	756.8	30.04	763.1	70.7	21.5	65	e.	7.4	3.3			0			0	0		Prof. G. Cacciatore.
Syracuse	29.91	759.8	29.96	760.9	75.4	24.1	70	calm	0	0			0			0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.50	749.2	30.01	762.2	70.7	21.5	73	sw.	6.9	3.1			7	nw.		0	0		Prof. F. Brioschi.
Stelvio	22.15	562.7			45.9	7.7	58	sw.			2		10			0.134	3.4	misty	Prof. P. F. Denza.
Valdobbia	22.17	563.0			42.3	5.7	74	n.			4		10			0.039	1.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.95	760.7	29.98	761.6	58.1	14.5	86	calm			0		9 ck		s.	0	0	cloudy	H. Hattori.
Awomori	29.94	760.5	29.98	761.5	54.8	12.7	86	n.	7.8	3.5		0	1 s			0	0	clear	K. Ogawa.
Hamamatsu	29.96	761.0	29.99	761.7	63.6	17.6	86	e.			2	0	8 s		e.	0.028	0.7	overcast	Y. Sekigawa.
Kanazawa	29.90	759.4	30.00	762.1	55.0	12.8	96	wnw.	1.4	0.6		1	2			0.006	0.1	fair	S. Endo.
Kagoshima	29.94	760.5	29.95	760.8	68.9	20.5	83	calm			0	0	0			0	0	clear	G. Miyanonaga.
Kioto	29.79	756.7	29.96	761.0	63.3	17.4	92	nne.	2.2	1.0		0	3 s			1.108	28.1	fair	M. Tojima.
Kochi	29.92	759.9	29.94	760.4	71.9	22.2	85	ese.	0.7	0.3		0	2 s			0.012	0.3	clear	K Kusunose.
Miasaka	29.93	760.3	29.96	761.0	69.1	20.6	87	ne.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.94	760.4	30.05	763.2	51.0	10.6	92	sw.	inap.	inap.		3 cs	0			0	0	fair	N. Honno.
Nagasaki, I. M. Obs'y	29.75	755.6	29.95	760.7	69.8	21.0	76	nw.	1.8	0.8		0	0			0	0	clear	S. Takehayashi.
Niigata	29.96	761.0	30.00	762.0	59.3	15.2	94	nnw.	0.9	0.4			10 n			0.845	21.5	light rain	M. Morita.
Nobiru	30.04	763.1	30.06	763.5	54.7	12.6	95	sse.	7.4	3.3			10 n			0.740	18.8	raining	H. Midzushina.
Numazu	29.96	761.0	29.99	761.8	62.2	16.8	83	se.			2		10 ks				0	cloudy	R. Kaneda.
Osaka	29.93	760.3	29.95	760.7	65.7	18.7	84	ne.	9.6	4.3		3 cs	6 s			0	0	cloudy	H. Omura.
Sakai	30.00	761.9	30.01	762.1	61.1	16.2	80	ne.			2		10 ks		nnw.	0.004	0.1	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	29.93	760.1	30.00	762.0	61.7	16.5	88	ese.	4.4	2.0			10 n			0.038	1.0	raining	The Staff.
Wakayama	29.87	758.8	29.93	760.1	66.9	19.4	86	calm	0	0			10 n		nnw.	0.145	3.7	thunder	K. Sakai.
Shimonoseki	29.83	757.6	29.97	761.2	63.8	17.7	85	calm			0	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.87	758.7	30.06	763.5	75.0	23.9	64	ese.	10.5	4.7		0	1 k			0	0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.67	601.1	29.89	759.1	61.9	16.6	83	calm	0	0			10 nkn		ne.	0.039	1.0	raining	Prof. Vicente Fernandez.
Leon	24.29	617.0	29.89	759.2	63.1	17.3	87	sse.	0.9	0.4			10 kn		e.	0.013	0.3	covered	Prof. M. Leal.
Mazatlan	29.65	753.2	29.91	759.7	73.0	22.8	85	ese.	5.3	2.3		5 cn	0	ese.		0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					77	25.0	76	s.	7.5	3.4		0	3 ck		se.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.81	757.2	29.81	757.2	67.6	19.8		ese.			3					0.067	1.7		
Groningen	29.79	756.6	29.84	758.0	58.6	14.8		ne.			1					0	0		
Helder	29.84	757.9	29.84	757.9	57.4	14.1		e.			1					0	0		
Hellevoetsluis	29.80	756.9	29.80	756.9	64.8	18.2	64	e.			1					0	0		
Utrecht	29.78	756.3	29.82	757.5	66.9	19.4	60	ene.			2		8			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.84	757.8			81.5	27.5	80	ene.	1.5	0.7			2			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.64	752.9	29.71	754.5	52.4	10.8	72	s.	20	9			10			0.720	18.3	raining	
Brono	29.73	755.1	29.77	756.1	63.3	17.4	52	sw.			4		9					raining	
Christiania	29.63	752.5	29.77	756.1	61.5	16.4	58	s.	7	3			8			0	0		
Gjæsvær	30.02	762.4	30.04	763.0	54.0	12.2		ne.			2		0						
Lodingen	29.89	759.1	29.93	760.3	71.8	22.1	35	ese.			1		0			0	0		
PORTUGUESE.																			
Angra, Azores	29.90	759.5	30.06	763.5	63.1	17.3	84	sse.	9.4	4.2			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.02	737.2	30.01	762.3	65.3	18.5	59	wnw.	7.4	3.3			9			0.031	0.8		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.06	763.6	30.15	765.9	67.3	19.6	59	sw.	2.5	1.1			5	nw.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.54	750.2	29.87	758.7	63.1	17.3	77	wsw.	22.4	10.0			6			0.043	1.1		The Staff.
Ponta Delgada, Azores	30.05	763.2	30.12	765.0	70.9	21.6	58	calm	8.1	3.6			4			0	0		
Saint Paul de Loando	29.77	756.1	29.97	761.3	75.2	24.0	94	wsw.			1		0			0	10		
San Salvador	28.14	714.8	29.96	761.0	82.9	28.3	51	nw.			3		0			0	0		
Serra da Estrella	25.23	640.8	29.98	761.6	45.0	7.2	82	wsw.	10.5	4.7			10			0	0		
RUSSIAN.																			
Akmolinski	28.61	726.8	29.65	753.2	63.5	17.5	27	e.	18	8		1 c	0			0	0		Major K. Lasarew.
Archangel	29.92	760.0	29.94	760.5	79.2	26.2	33	ne.	4	2		0	8 ks			0	0		Capt. Sseltwerstow
Ashurada	30.08	764.1	29.99	761.7	72.9	22.7	80	wsw.	25	11			10 kn			0.134	3.6		
Astrakhan	30.04	763.1	29.96	761.0	79.7	26.5	31	n.	7	3		0	1 k			0	0		Capt. Wisganow.
Baku	30.06	763.6	30.02	762.4	78.4	25.8	42	s.	9	4		0	1 ks			0	0		
Barnaul	29.26	743.3	29.74	755.5	62.2	16.8	35	n.	4	2			10			0	0		Meteorological Obs'y
Bielosersk	29.38	746.2	29.83	757.7	62.4	16.9	80	e.	2	1			9 ks;n			0.469	11.9	thund'r st'm	
Dorpat	29.72	755.0	29.96	761.0	64.6	18.1	63	w.	4	2		0	7 k			0	0		Observatory.
Ekaterinburg	28.96	735.5	29.87	758.7	74.8	23.8	28	nw.	11	5		5c;ck	0			0	0		Meteorological Obs'y
Elissawetgrad	29.52	749.9	29.96	760.9	71.4	21.9	63	ese.	7	3			10 sn			0.004	0.1		
Irkutsk	28.36	720.3	29.97	761.3	56.1	13.4	44	calm			0		3			0	0		
Kasalinsk																			
Kasan	29.72	755.0	29.98	761.4	78.4	25.8	33	wsw.	4	2		0	7 k			0	0		Observatory.
Kem	29.87	758.7	29.92	760.0	66.6	19.2	57	ne.	18	8		0	4 ks			0	0		
Kertch	29.92	759.9	29.94	760.5	77.7	25.4	65	calm	0	0		0	0			0	0		Lagorio & Sastyres.
Kieff	29.26	743.2	29.86	758.4	79.7	26.5	57	sse.	4	2		0	3 k;ks			0.004	0.1		Obse. vatory.
Koslov	29.42	747.3	29.94	760.4	71.4	21.9	93	sw.	13	6		cs	6 k			0	0		
Libau	29.94	760.5	29.97	761.1	66.2	19.0	31	wsw.	4	2			1			0	0		E. Quass.
Lugan	29.72	754.9	29.89	759.3	82.9	28.3	30	sw.	13	6			6			0	0		Meteorological Obs'y.
Moscow	29.41	747.1	29.86	758.5	74.3	23.5	41	w.	4	2		0	4k			0.031	0.8		Meteorological Obs'y
Nikolaiev	29.85	758.1	29.92	760.0	81.1	27.3	61	e.	4	2		cs	7 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.79	756.7	29.88	758.9	53.1	11.7	84	e.	13	6			10			0	0		Iwanow.
Pekin, China	29.57	751.1	29.71	754.7	79.3	26.3	62	calm	0	0		0	7 n			0	0		Physical Observatory.
Petro-Alexandrovsk	29.40	748.2	29.80	756.8	71.8	22.1	69	w.	1.1	0.5			9 ks			0.327	8.3		
Petrozavodsk	29.62	752.3	29.81	757.2	59.9	15.5	88	e.	9	4			8 ks			0.028	0.7		Dr. Bergmann.
Pinsk	29.44	747.7	29.92	759.9	74.7	23.7	44	ne.	11	5		5 c	0			0	0	light clouds.	
Poti	29.85	758.3	29.89	759.1	80.1	26.7	75	n.	4	2		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
St. Petersburg	29.87	758.8	29.90	759.4	58.8	14.9	75	nnw.	16	7		0	4 k			0.161	4.1		Central Physical Obs'y.
Samarkand	27.38	695.4	29.70	754.5	80.6	27.0	34	calm	0	0			9 n			0	0		
Semipalatinsk	29.10	739.0	29.73	755.2	63.9	17.7	50	n.	4	2			10			0	0		Major Lasarew
Sevastopol	29.63	752.7	29.85	758.2	73.2	22.9	53	wnw.	7	3		0	7 n			blank	blank		
Staroi Bykhov	29.54	750.4	29.98	761.5	78.3	25.7	33	e.	2	1		0	1 k			0	0		
Tashkend	28.08	713.2	29.63	752.5	86.2	30.1	33	calm	0	0			9 kn			0.020	0.5	light clouds	Terch, A. M.
Tiflis	28.58	725.9	29.92	760.0	82.8	28.2	32	e.	2	1		0	1 k			inap.	inap.		Physical Observatory.
Vernoe	27.27	692.7	29.68	753.8	67.3	19.6	70	ne.	7	3		0	2 k			0.024	0.6		
Viatka	29.37	746.1	29.98	761.4	77.0	25.0	26	calm	0	0			0			0	0		
Warsaw	29.45	748.0	29.85	758.2	77.4	25.2	38	sse.	11	5		0	2 ks			0.024	0.6		Astronomical Obs'y.
Yeniseisk	29.51	749.5	29.79	756.6	55.2	12.9	53	w.	9	4			10			0.079	2.0	raining	M. O. Marks.
Scottish.																			
Monach Lt			29.77	756.1	52	11.1	86	n.			2	0	0			0	0	clear.	J. Youngclaus.
North Unst			29.53	750.0				ne.			4		7						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.80	756.9	29.90	759.5	73.8	23.2	57	s.	2.5	1.1		1 c;cs	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.79	756.7	29.85	758.2	75.7	24.3	36	sw.	3.1	1.4		2	3	s.		0.110	2.8	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.00	685.7	29.92	760.0	59.5	15.3	62	sw.	9.4	4.2		0	6			0.094	2.4	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.76	705.1	29.94	760.5	66.0	18.9	41	sw.	21.9	9.8		0	1			0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.76	756.0	29.91	759.6	82.2	27.9	39	s.	2.9	1.3		2	3	ne.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.00	736.6	29.70	755.9	65.3	18.5	66	e.	11.4	5.1		6 kn	6 k	w.	w.	0.315	8.0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.90	734.0	29.79	756.7	55.8	13.2	93	w.	12.5	4.5			10			2.331	59.1	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.91	759.6	29.97	761.3	76.3	24.6	86	e.	4.5	2.0		1 c;cs	k.	nw.		1.13	28.8	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.77	756.1	29.83	757.6	78.0	25.6	100	s.	15.4	6.9		4 c	4 n		sw.	0.768	19.5	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.8	30.09	764.3	68.4	20.2	63	wnw.	11.2	5.0		0	3		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.6	30.08	763.9	79.5	26.4	97	calm	0	0		3 cs	1 k	e.	e.	0	0	clear	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.89	759.2	29.93	760.2	77.4	25.2	33	e.			4		3			0	0		
Umea	29.82	757.3	29.87	758.6	72.0	22.2	38	e.			4		5			0	0		
Hernosand	29.79	756.6	29.84	757.9	69.1	20.6	56	e.			4		3			0	0		
Stockholm	29.74	755.4	29.92	759.9	66.6	19.2	43	s.			2		2			0.217	5.5		
Wisby	29.80	757.0	29.86	758.5	69.0	20.6	42	se.			4		0			0	0		
Sub-series.																			
Upsala	29.78	756.4	29.87	758.6	70.9	21.6	47	s.	13.0	5.8			3	nw.		blank	blank		S. G. Fineman.
Swiss.																			
Geneva	28.46	722.9	29.83	757.7	73.8	23.2	43	ssw.			5		4			0	0	cloudy	The Observatory.
Turkish.																			
Constantinople			29.83	757.6	85.6	29.8	38	sw.	14	6.5			0			0	0		The Observatory.
Valona			30.10	764.6	73.8	23.2		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.95	760.6	80.2	26.8	67	w.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	29.74	755.4	29.82	757.4	71	21.7	71	s.	4	1.8		1 cs	0			0.13	3.3	clear	J. O. Barnes.
Alpena, Michigan	29.25	742.9	29.90	759.4	56	13.3	74	nw.	6	2.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.96	634.0	29.70	754.4	47	8.3	61	e.	6	2.7		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.42	696.5	30.21	767.3	45	7.2	76	nw.	8	3.6			10 s		w.	0.02	0.5	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.82	732.0	29.97	761.2	67.0	19.4	97	calm	0	0			10 s			0.82	20.8	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.87	758.7	29.88	758.9	66	18.9	100	sw.	6	2.7			10s;fg			0.72	18.3	cloudy	Jas. M. Watson.
Augusta, Georgia	29.80	756.9	29.99	761.7	72.5	22.5	94	calm	0	0		3 k	5 k	sw.	w.	1.55	39.4	cloudy	John Healy.
Baltimore, Maryland	29.86	758.4	29.91	759.7	72	22.2	82	nw.	3	1.3			10 s		sw.	0.63	16.0	cloudy	Geo. W Felger.
Barnegat City, New Jersey	29.86	758.4	29.88	758.9	69.0	20.6	97	w.	6	2.7			10k;fg		w.	0.60	15.2	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.95	760.7	29.97	761.2	37.2	3.1	93	s.	5	2.2			10 n			0.22	5.6	light rain	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.34	719.8	29.86	758.9	49.0	9.4	93	calm	0	0		3 k	1 k	nw.	nw.	inap.	inap.	fair	A. Pritchard.
Benton, Fort, Montana	27.45	697.2	30.22	767.6	46	7.8	63	sw.	8	3.6		0	6 ks			0.15	3.8	fair	S. Wheaton.
Billings, Montana	26.95	684.5	30.09	764.3	44	6.7	76	n.	12	5.4			10 s			0.28	7.1	cloudy	T. Gibson.
Bismarck, Dakota	28.14	714.7	29.90	759.4	55	12.8	80	n.	6	2.7			10 s		n.	inap.	inap.	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.80	756.9	29.84	757.9	63	17.2	100	w.	10	4.5			fg.			0.05	1.3	dense fog	J. T. Elker.
Boise City, Idaho	27.32	693.9	30.10	764.5	50	10.0	74	w.	4	1.8		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.62	752.3	29.77	756.1	71.0	21.7	71	w.	7	3.1		0	hz.			0.12	3.0	clear	O. B. Cole.
Brownsville, Texas	29.77	756.1	29.81	757.2	78.0	25.6	76	se.	4	1.8		2 cs	2 s		s.	0.33	8.4	fair	E. C. Imlay.
Buffalo, New York	29.12	739.6	29.86	758.4	55.4	13.0	93	sw.	5	2.2		3 k	0	sw.		inap.	inap.	clear	W. Finn.
Buford, Fort, Dakota	28.11	714.0	30.07	763.8	49	9.4	93	ne.	18	8.0			10 s		ne.	0.02	0.5	cloudy	A. Schneider.
Burlington, Vermont	29.48	748.8	29.77	756.1	66.0	18.9	84	s.	4	1.8		0	6 s		w.	0.08	2.0	fair	D. N. Farnell.
Cairo, Illinois	29.54	750.3	29.93	760.2	69.7	20.9	86	se.	6	2.7		3 ck	0	se.		0.03	0.8	clear	W. H. Ray.
Cape Henry, Virginia	29.90	759.4	29.92	760.0	72.0	22.2	97	sw.	9	4.0			10 ks		sw.	0.17	4.3	cloudy	A. K. Alderson.
Cape May, New Jersey	29.86	758.4	29.89	759.2	68.0	20.0	93	sw.	4	1.8			10 s		sw.	0.66	16.8	cloudy	W. E. Smith.
Cape Mendocino, California	29.24	742.7	29.92	760.0	62	16.7	36	nw.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.94	760.5	29.99	761.0	79	26.1	88	s.	9	4.0		0	9 n		se.	0.08	2.0	thund'r st'm	G. W. Davis.
Charleston, S. Carolina	29.94	760.5	29.99	761.7	74.0	23.3	90	sw.	5	2.2			10 n		sw.	0.73	18.5	light rain	J. H. Smith.
Charlotte, N. Carolina	29.12	739.6	29.95	760.7	72.0	22.2	84	sw.	6	2.7			10 s		sw.	0.63	16.0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.14	740.1	29.95	760.7	67.0	19.4	100	calm	0	0			fg.			0.23	5.8	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	29.76	755.9	42.1	5.6	86	n.	8	3.6			10 n			0.06	1.5	light rain	E. McGovern.
Chicago, Illinois	29.18	741.2	29.87	758.7	65.7	18.7	69	se.	4	1.8		2 cs	0			inap.	inap.	clear	John Laurens.
Chincoteague, Virginia	29.87	758.7	29.89	759.2	72	22.2	97	w.	4	1.8			10 ks		nw.	0.08	2.0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.30	744.2	29.94	760.5	67.0	19.4	78	calm	0	0		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.19	741.4	29.92	760.0	63	17.2	78	w.	5	2.2		0	0			0.01	0.3	clear	J. B. Newlin.
Coleman City, Texas	27.99	710.9	29.74	755.4	68	20.0	84	se.	4	1.8		2 c	0			0.17	4.3	clear	T. J. Kenan.
Columbus, Ohio	29.09	738.9	29.93	760.2	65	18.3	68	w.	4	1.8		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	27.83	706.9	29.70	754.4	71.0	21.7	84	s.	16	8.0		10 cs	0			0.06	1.5	cloudy	J. McGlone.
Davenport, Iowa	29.20	741.7	29.84	757.9	65	18.3	73	w.	1	0.4		9 cs	hz.	w.		0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.05	636.3	29.66	753.4	68	20.0	42	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.49	723.6	30.23	767.8	51.5	10.8	68	ne.	4	1.8		5 ck	0			0	0	fair	D. Moore.
Deadwood, Dakota	25.44	646.2	29.88	758.9	44	6.7	100	ne.	8	3.6			10 n			0.34	8.6	light rain	F. Willson.
Delaware Breakwater, Del	29.88	758.9	29.90	759.4	69	20.6	100	sw.	6	2.7			10s;fg		sw.	0.30	7.6	cloudy	T. S. Townsend.
Denver, Colorado	24.72	627.9	29.76	755.9	52.0	11.1	80	calm	0	0			10 n			0.01	0.3	light rain	F. M. Neal.
Des Moines, Iowa	28.97	735.8	29.85	758.2	61	16.1	93	sw.	3	1.3			10 n		sw.	0.38	9.7	heavy rain	F. W. Conrad.
Detroit, Michigan	29.20	741.7	29.89	759.2	61.0	16.1	78	nw.	3	1.3		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.22	691.4	29.73	755.1	57	13.9	100	n.	6	2.7			10 s		w.	1.41	35.8	cloudy	D. J. Carr.
Dubuque, Iowa	29.15	740.4	29.84	757.9	60	15.6	82	sw.	1	0.4			10 s		sw.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.06	738.1	29.79	756.7	62	16.7	68	calm	0	0		0	4 k			0.03	0.8	fair	N. B. Conger.
Eagle Pass, Texas	29.02	737.1	29.81	757.2	78.3	25.7	62	se.	8	3.6		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.44	646.2	30.03	762.7	43	6.1	63	n.	16	7.2		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	29.60	751.8	29.67	753.6	54.0	12.2	93	calm	0	0			10s;fg			0.42	10.7	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.05	687.1	29.72	754.9	56	13.3	80	ne.	16	7.2		9 k	0	ne.		0.09	2.3	cloudy	W. J. Cundall.
El Paso, Texas	26.09	662.7	29.68	753.9	70.0	21.1	43	w.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.19	741.4	30.91	759.7	63	17.2	78	w.	7	3.1		0	0			inap.	inap.	clear	C. A. Shaw.
Escanaba, Michigan	29.18	741.2	29.83	757.7	56.0	13.3	80	se.	4	1.8		0	3 s		w.	0	0	clear	George Heathcote.
Galveston, Texas	29.83	757.7	29.87	758.7	79	26.1	77	s.	6	2.7		0	5 k		sw.	0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.22	742.2	29.87	758.7	60.5	15.8	71	calm	0	0		2 c	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.13	638.3	29.67	753.6	68.9	20.5	32	nw.	6	2.7		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.95	760.7	29.97	761.2	75	23.9	90	sw.	15	6.7			10 s		sw.	0.16	4.1	cloudy	R. M. Crawford.
Helena, Montana	26.02	660.9	30.14	765.5	43	6.1	76	sw.	3	1.3		5 k	0			0.50	12.7	cloudy	H. W. Dodge.

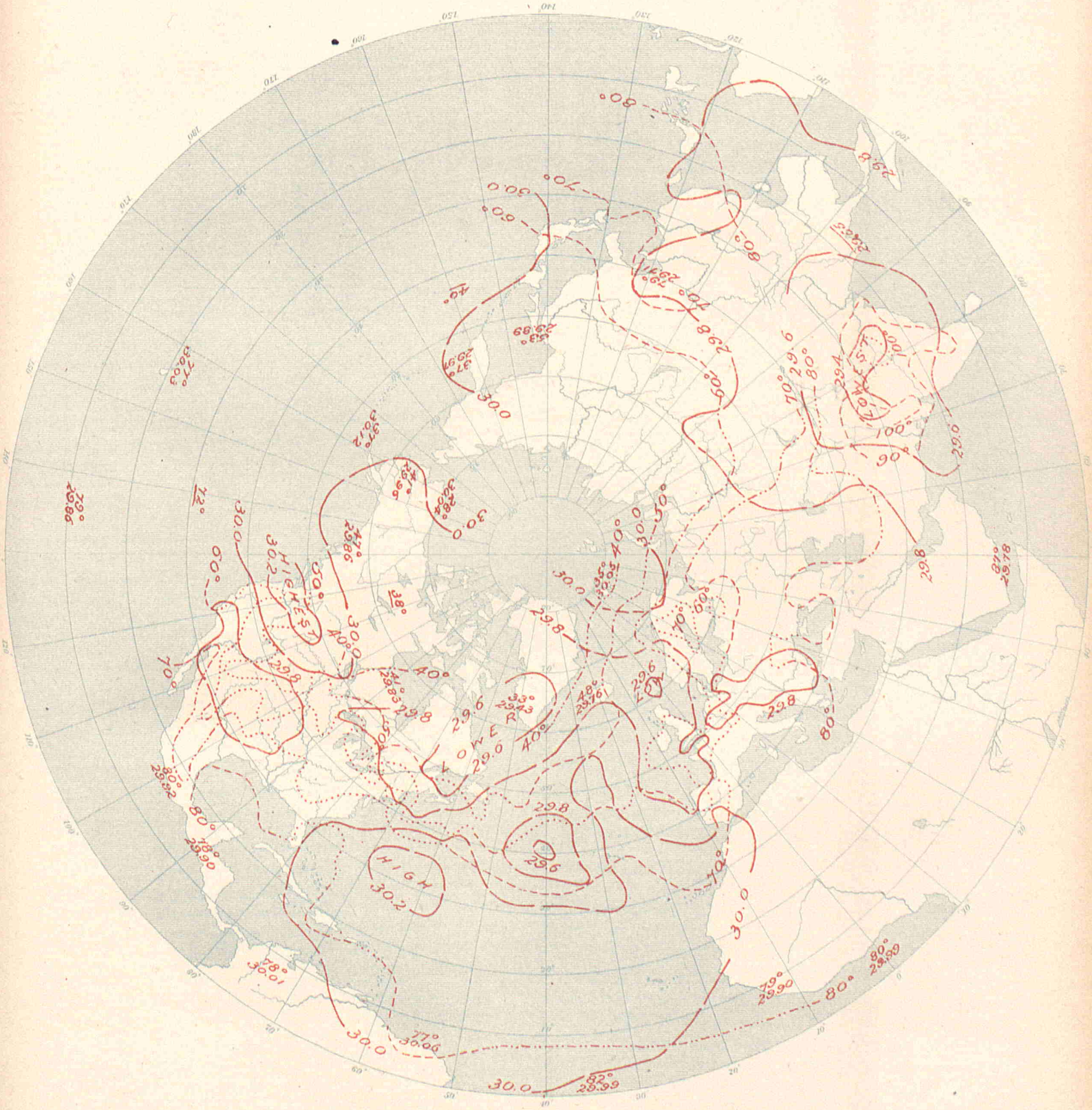
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.50	723.9	29.84	757.9	51.2	10.7	71	nw.	5	2.2	.....	1 cs	0	.....	.....	0.03	0.8	clear	S. W. Glenn.
Indianapolis, Indiana	29.11	739.4	29.89	759.2	66.0	18.9	76	sw.	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	C. F. R. Wappenhans.
Indianola, Texas	29.80	756.9	29.83	757 7	76.2	24.6	95	s.	8	3.6	.....	0	2 ks	.....	s.	0	0	clear	I. A. Reed.
Jacksonville Florida	29.95	760.7	29.99	761.7	80.0	26.7	82	s.	8	3.6	.....	2 cs	4 s	.....	s.	0.21	5.3	fair	J. W. Smith.
Keogh, Fort, Montana	27.63	701.8	30.06	763.5	49	9.4	100	nw	16	7.2	.....	.....	10 n	.....	.....	0.20	5.1	light rain	W. B. Lamar.
Keokuk, Iowa	29.19	741.4	29.83	757.7	65.0	18.3	78	s.	4	1.8	.....	.....	10 n	.....	s.	inap.	inap.	light rain	F. Z. Gosewisch.
Key West, Florida	29.93	760.2	29.95	760.7	84.0	28.9	80	s.	1	0.4	.....	1 cs	1 k	.....	s.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.96	761.0	29.98	761.5	69.5	20.8	100	w.	12	5.4	.....	.....	10 n	.....	.....	1.31	33.1	heavy rain	H. Mc P. Baldwin
Knoxville, Tennessee	28.95	735.3	29.96	761.0	65.4	18.6	98	nw.	5	2.2	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.06	738.1	29.82	757.4	60	15.6	70	sw.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.89	733.8	29.76	755.9	65	18.3	84	se.	3	1.3	.....	.....	10 ks	.....	s.	1.10	27.9	cloudy	A. W. Browne.
Lewiston, Idaho	29.38	746.2	30.20	767.1	54.0	12.2	83	sw.	1	0.4	.....	4 cs	0	nw.	.....	inap.	inap.	fair	H. S. Blandford.
Little Rock, Arkansas	29.52	749.8	29.83	757.7	71	21.7	94	sw.	1	0.4	.....	0	8 s	.....	w.	0.65	16.5	cloudy	W. U. Simons.
Los Angeles, California	29.53	750.0	29.92	760.0	62	16.7	93	w.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.35	745.5	29.90	759.4	68	20.0	78	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	L. M Dey.
Lynchburg, Virginia	29.22	742.2	29.89	759.2	72	22.2	82	sw.	1	0.4	.....	3 cs	5 s	sw.	sw.	0.24	6.1	cloudy	Lou s Duane.
Mackinaw City, Michigan	29.25	742.9	29.89	759.2	53.5	11.9	73	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.96	761.0	29.97	761.2	71.0	21.7	90	sw.	13	5.8	.....	.....	10 s	.....	sw.	0.34	8.6	cloudy	William Daly.
Maginnis, Fort, Montana	25.78	654.8	30.12	765.0	40	4.4	42	ne.	13	5.8	.....	7 k	0	ne.	.....	0.15	3.8	fair	F. Burke.
Marquette, Michigan	29.11	739.4	29.83	757.7	66	18.9	49	sw.	9	4.0	.....	3 c	0	sw.	.....	inap.	inap.	clear	J. Gilligan.
Memphis, Tennessee	29.54	750.3	29.87	758.7	74	23.3	84	s.	2	0.9	.....	2 c	hz.	.....	.....	0.05	1.3	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.11	739.4	29.85	758.2	64	17.8	68	w.	2	0.9	.....	6 c	sk.	w.	.....	0	0	fair	W. Line.
Missoula, Fort, Montana	27.13	689.1	30.39	771.9	49	9.4	71	se.	1	0.4	.....	0	7 ks	.....	s.	0.16	4.1	fair	J. H. Young.
Mobile, Alabama	29.86	758.4	29.90	759.4	74.6	23.7	89	n.	4	1.8	.....	0	2k ks	.....	e.	0.21	5.3	clear	C. A. Read.
Montgomery, Alabama	29.65	753.1	29.88	758.9	71	21.7	94	se.	2	0.9	.....	.....	fg.	.....	.....	0.39	9.9	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	28.85	732.8	29.82	757 4	50	10.0	68	s.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	H. White.
Mt. Washington, N. H	23.68	601.5	29.80	756.9	43.0	6.1	100	nw.	48	21.5	.....	.....	fg.	.....	nw.	0.95	24.1	dense fog	S. W. Beall.
Nashville, Tennessee	29.33	745.0	29.89	759.2	64.5	18.1	97	e.	4	1.8	.....	.....	fg.	.....	.....	0.40	10.2	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	29.71	751.6	29.82	757.4	70	21.1	84	sw.	2	0.9	.....	4 c	0	.....	.....	0.21	5.3	fair	J. H. Sherman.
New London, Connecticut	29.81	757.2	29.86	758.4	69	20.6	84	w.	2	0.9	.....	.....	9s;fg	.....	w.	0.68	17.3	clearing	J. G. Lynch.
New Orleans, Louisiana	29.82	757.4	29.88	758.9	76.5	24.7	84	e.	3	1.3	.....	0	0	.....	.....	0.03	0.8	clear	M. Herman.
New York, New York	29.71	754.6	29.88	758.9	68	20.0	84	calm	0	0	.....	6 cs	0	sw.	.....	0.22	5.6	fair	G. E. Franklin.
Norfolk, Virginia	29.90	759.4	29.93	760.2	73.8	23.2	90	sw.	9	4.0	.....	.....	10s;hz	.....	sw.	0.24	6.1	cloudy	Wm. Davis.
North Platte, Nebraska	26.97	685.0	29.77	756.1	54.6	12.6	84	nw.	6	2.7	.....	0	6 s	.....	.....	0.52	13.2	fair	E. F. Brady.
Olympia, Washington T'y	30.26	768.6	30.30	769.6	52.0	11.1	80	calm	0	c	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.67	728.2	29.81	757.2	61.5	16.4	87	ne.	1	0.4	.....	.....	10 n	.....	ne.	0.81	20.6	light rain	A. Pollak.
Ooglaamie, Alaska	30.02	762.5	30.04	763.0	27.8	— 2.3	100	ene.	12	5 4	.....	.....	10 n	.....	.....	inap.	inap.	light snow	P. H. Ray.
Oswego, New York	29.50	749.3	29.82	757.4	60.0	15.6	78	w.	10	4.5	.....	0	0	.....	.....	inap.	inap.	clear	J. G. Linsley.
Palestine, Texas	29.31	744.5	29.85	758.2	74.0	23.3	90	s	11	4.9	.....	0	sk.	.....	.....	0.16	4.1	clear	J. W. Byram.
Pensacola, Florida	29.86	758.4	29.89	759.2	75.3	24.1	94	n.	4	1.8	.....	0	1 s	.....	ne.	0.58	14.7	clear	M. McGauran.
Philadelphia, Pa	29.79	756.7	29.89	759.2	71	21.7	90	w.	2	0.9	.....	8 cs	fg.	sw.	.....	1.28	32.5	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.80	452.1	29.62	752.3	24	— 4.4	100	sw.	18	8.0	.....	.....	10 s	.....	sw.	0	0	cloudy	H. Hall.
Pioche, Nevada	24.05	610.9	29.85	758.2	58.5	14.7	27	n.	7	3.1	.....	10 cs	0	w.	.....	0	0	cloudy	F. R. Day.
Pittsburg, Pennsylvania	29.12	739.6	29.92	760 0	67.0	19.4	70	w.	6	2.7	.....	3 c	0	w.	.....	0.11	2.8	clear	W. A. Reid.
Poplar River, Montana	27.92	709.2	30.02	762.5	.....	.....	.....	ne.	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy	W. D. Maxwell.
Port Huron, Michigan	29.21	741.9	29.88	758.9	58.0	14.4	74	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	29.67	753.6	29.72	754.0	70	21.1	57	w.	5	2.2	.....	0	0	.....	.....	0.19	4.8	clear	W. W. Eichelberger.
Portland, Oregon	30.16	766.1	30.23	767.8	61.2	16.2	78	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C	.....	.....	.....	.....	76	24.4	100	sw.	10	4.5	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	F. P. Chaffee.
Prescott, Arizona	24.70	627.4	29.72	754.9	51.0	10.6	41	sw.	4	1.8	.....	2 c	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	29.75	755.6	29.78	756.4	63.5	17.5	93	w.	8	3.6	.....	.....	10s;fg	.....	.....	0.27	6.9	cloudy	C. N. Kitchel.
Punta Rassa, Florida	29.93	760.2	29.94	760.5	78.5	25.8	88	se.	10	4.5	.....	1 ck	1 k	.....	se.	inap.	inap.	clear	W. J. Evans.
Red Bluff, California	29.55	750.6	29.90	759.4	83	28.3	28	n.	20	8.9	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.19	741.4	29.84	757.9	62	16.7	81	w.	14	6.3	.....	1 c	hz.	.....	.....	inap.	inap.	clear	E. W. McGann.
Roseburg, Oregon	29.65	753.1	30.20	767.1	61.4	16.3	67	n.	3	1.3	.....	1 cs	0	w.	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.74	755.4	29.81	757.2	68.0	20.0	73	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.29	744.0	29.88	758.9	65.9	18.8	94	se.	7	3.1	.....	7 ck	0	.....	.....	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.93	760.2	29.96	761.0	41	5.0	92	sw.	18	8.0	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.97	735.8	29.81	757.2	57.5	14.2	90	calm	0	0	.....	.....	10 s	.....	sw.	0.41	10.4	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.05	737.9	29.90	759.4	45	7.2	88	n.	15	6.7	.....	.....	10 n	.....	.....	0.08	2.0	light rain	C. B Dilley
Salt Lake City, Utah	25.05	651.5	29.87	758.7	59	15.0	54	nw.	3	1.3	.....	9 k	0	sw.	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.13	739.9	29.81	757.2	73	22.8	90	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Davis.
San Diego, California	29.83	757.7	29.90	759.4	62.5	16.9	89	nw.	4	1.8	.....	.....	fg.	nw.	.....	0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.84	757.9	29.87	758.7	68.0	20.0	90	w.	10	4.5	.....	9 k	0	w	.....	0.39	9.9	cloudy	B. A. Blundon.
Sanford, Florida	29.92	760.0	.....	.....	82.0	28.1	81	s.	3	1.3	.....	4 c	4 k	sw.	s.	0.04	1.0	cloudy	J. B. Marbury.
San Francisco, California	29.79	756.7	29.86	758.4	59	15.0	84	calm	0	0	.....	5c;cs	0	n.	.....	0	0	fair	N. Gorom.
Santa Fé, New Mexico	23.16	588.3	29.66	753.4	60	15.6	44	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.90	759 4	29.99	761.7	74	23.3	84	sw.	1	0.4	.....	.....	10 ks	.....	sw.	0.40	10.2	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.04	676.6	30.21	767.3	43	6.1	93	w.	3	1.3	.....	6 k	0	n.	.....	0.65	16.5	fair	A. L. Mathews
Shreveport, Louisiana	29.59	751.6	29.82	757.4	74.0	23.3	90	n.	2	0.9	.....	1 cs	0	w.	.....	0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.48	723.4	29.98	753.9	68.5	20.3	92	s.	14	6.3	.....	0	7 n	.....	s.	0.28	7.1	light rain	W. M. Mattingly.
Sitka, Alaska	29.80	756.9	29.86	758.4	47.1	8.4	86	w.	12	5.4	.....	.....	10 ks	.....	w.	0.59	15.0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.34	745.2	29.80	756.9	69.0	20.0	93	e.	2	0.9	.....	9 cs	0	s.	.....	0.26	6.6	cloudy	J. B. Campbell.
Smithville North Carolina	29.94	760.5	29.98	761.5	74	23.3	90	sw.	14	6.3	.....	.....	10 n	.....	w.	0.74	18.8	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.19	716.0	30.23	767.8	51	10.0	74	calm	0	0	.....	3 c	0	s.	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.20	741.7	29.87	758.7	66.5	19.2	78	s.	3	1.3	.....	5 c	2 s	w.	w.	0.17	4.3	fair	T. B. Jennings.
Starkville, Miss	29.44	747.8	29.91	759.7	71	21.7	90	calm	0	0	.....	.....	fg.	.....	.....	0.26	6.6	dense fog	C. Dill.
Stockton, Fort, Texas	26.85	682.0	29.77	756.1	72	22.2	44	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.06	687.3	29.69	754.1	60	15.6	46	calm	.....	.....	0	3 cs	0	.....	.....	0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.21	741.9	29.89	759.2	67	19.4	59	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.40	695.9	29.70	754.4	68	20.0	45	s.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	30.10	764.5	30.12	765.0	37	2.8	89	nw.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	59	15.0	30	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.62	752.3	29.87	758.7	72.0	22.2	90	se.	5	2.2	.....	3 c	0	.....	.....	0	0	clear	James Kenealy.
Visalia, California	29.42	747.3	29.78	756.4	71.0	21.7	57	se.	2	0.9	.....	3 cs	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.60	624.8	29.98	761.5	42.1	5.0	89	ne.	7	3.1	.....	.....	10 ks	.....	.....	0.39	9.9	cloudy	T. M. Ambler.
Washington, D. C	29.80	756.9	29.91	759.7	70.4	21.3	92	nw.	1	0.4	.....	.....	10 s	.....	nw.	0.49	12.4	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.94	658.9	29.71	754.6	58.5	14.7	80	n.	4	1.8	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.32	744.7	29.92	760.0	61.5	16.4	90	nw.	1	0.4	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	B. F. Hough.
Wilmington, N. Carolina	29.93	760.2	29.98	761.5	74.0	23.3	90	w.	9	4.0	.....	.....	10 s	.....	w.	0.42	10.7	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.73	653.5	29.99	761.7	53.5	11.9	57	ne.	12	5.4	.....	0	3 s	.....	nw	0	0	clear	J. Grover.
Yankton, Dakota	28.53	724.6	29.81	757.2	61	16.1	84	e.	13	5.8	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. H. Attfield.
Yuma, Arizona	29.52	749.8	29.66	753.4	72.4	22.4	58	calm	0	0	.....	1 cs	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joaquin Gomez.
Kingston, Jamaica, W. I	.....	.....	30.01	762 2	83	28.3	75	se.	5	2.2	.....	0	0 s	.....	e.	0	0	fair	Robert Johnston.
Paramaribo, S. A	30.06	763.5	30.06	763.5	77	25.0	91	se.	.....	.....	2	5 ck	0 k	e.	e.	1.900	48.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.45	748.0	30.01	762.2	78	25.6	89	calm	.....	.....	0	.....	10 ks	.....	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallo.
York Factory, B. A	29.77	756.1	29.83	757.7	40.5	4.7	96	s.	14	6.3	.....	2 c	0	s.	.....	0	0	fair	Fortesque & [illegible]

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 44° 31', E. 14° 10'	29.90	759.4	72	22.2	80	wnw.			1		1	wnw.				sm'h		blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.26	768.6	74	23.3	81	ssw.			2		3	ssw.						d. clouds.
H. M. S. Flamingo, N. 42° 14', W. 57° 10'	29.97	761.2	63	17.2	94	se.			4		5	sse.				2	ssw.	misty.
H. M. S. Gannet, N. 16° 53', W. 25° 01'	30.06	763.5	73	22.8	72	ne.			3-6		6	sw.				4	ne.	raining.
H. M. S. Himalaya, N. 31° 30', E. 28° 38'	29.96	761.0	78	25.6	78	ne.			3		4					1	ene.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.94	760.5	78	25.6	91	nne.			3		0							blue sky.
H. M. S. Minotaur, Vigo Bay, Spain	29.86	758.4	61.5	16.4	83	sw.			5		6	sw.						heavy sho'rs
H. M. S. Opal, St Jago, Cape Verd Islands	30.04	763.0	79	26.1	62	nne.			5		0							squally
H. M. S. Satellite, N. 40° 06', W. 10° 30'	29.80	756.9	64	17.8	83	wsw.			3		5	wsw.				4	wsw.	d. clouds
H. M. S. Superb, N. 36° 15', E. 15° 02'*	30.07	763.8	69	20.6	85	wsw.			3		2	ssw.				1	wsw.	d. clouds.
H. M. S. Tyne, N. 8° 10' W. 39° 57'	30.00	762.0	80	26.7	91	ene.			5		4	ene.				4	ene.	d. clouds.
H. M. S. Tenedos, St. Johns, N.F			46	7.8	92	e.			2		7	nw.						d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	29.72	754.9	70	21.1	75	w.	10	4.5			0			0.45	11.4			clear.
U. S. S. Lancaster, Kronstadt, Russia	29.90	759.4	56	13.3	94	nw.			3		5		w.			sm'h		fair.
U. S. S. Nipsic, New York, N. Y *	29.84	757.9	71	21.7	90	sw.			1		5							fair.
U. S. S. Portsmouth, Newport, R.I	29.85	758.2	64	17.8	89	ssw.			2		10							foggy.
U. S. S. Powhatan, Port Royal, S. C	29.96	761.0	75	23.9	95	ssw.			0-1		8		ssw.					cloudy.
U. S. S. Quinnebaug, N. 2° 38', W. 0° 51'	29.99	761.7	80	26.7	82	s.			4		8		s.			sm'h		cloudy.
U. S. S. Saratoga, Poughkeepsie, N. Y	29.87	758.7	65	18.3	89	s.			2		0			0	0	sm'h		clear.
U. S. S. Vandalia, N. 38° 44', W. 73° 34'	29.92	760.0	64	17.8	100	s.			3		10					sm'h		cloudy.
S. S. Inchkeith, N. 42° 05', W. 27° 47'	30.01	762.2	61.8	16.6	80	sse.			4		5							d. clouds.
H. P. M. S. Rio Lima, Porto Praya, Cape Verd Islands			77.4	25.2	87	ne			3		0					3	se.	blue sky.
S. S. Illinois, Philadelphia, Pa	29.98	761.5	74	23.3		sw.			1		10		sw.					overcast.
S. S. Lord Clive, N. 39° 27', W. 72° 00'						sw.			2		fg.			0	0	sm'h		dense fog.
S. S. Lord Gough, N. 42° 16', W. 42° 04'	29.60	751.8	63	17.2		n.			3		2.		nne.	0	0	mod.	ne.	fair.
S. S. Ohio, N. 47° 43', W. 23° 58'†	29.94	760.5	54	12.2		nnw.			4		5?		e.	0	0	mod.	n.	clear?
S. S Pennsylvania, N. 39° 25', W. 57° 25' †	30.05	763.3	67	19.4		wsw.			1		4			0	0	sm'h		fine.
S. S. British Princess, Liverpool, Eng †	29.61?	752.1?				wnw.			2		2		w.	0	0			d. clouds
S. S. Grecian, N. 49° 06', W. 45° 41'	29.99	761.7	44	6.7	92	e.			2		1		ese.	0	0	mod.	se.	clear.
S. S. Nova Scotian, N. 52° 18', W. 21° 15'	29.85	758.2	54	12.2		n.			4		10		nne.			mod.	w.	cloudy.
S. S. Scandinavian, N. 53° 05', W. 9° 18'	29.79	756.7	56	13.3		nne.			1		3					sm'h		d. clouds.
S. S. Prussian, Glasgow, Scotland	29.69	754.1	62	16.7		s.			1		2		sw.	0	0			clear.
S. S. Sardinian, N 47° 35', W. 59° 53'	29.62	752.3	43	6.1		ese.			4		10			1 h'r	1 h'r	sli't	ese.	misty.
S. S. Jason, N. 45° 57', W. 34° 04'			55.4	13.0		nnw.			4		6 k					4	nnw.	gloomy.
S. S. Alvo, off Miragoane, Hayti*	29.97	761.2	78	25.6		e.			3		5		calm	0	0			fine.
S. S. Andes, Kingston, Jamaica, W. I*†	30.02	762.5												0	0			clear.
S. S. Assyria, N. 48° 26' W. 20° 27'	29.82	757.4	59	15.0		nnw.			4		4		nnw.	0	0	mod.	nw.	fine.
S. S. Dorian, off Pladda, Scotland	29.84	757.9	60	15.6		calm			0					0	0	sm'h		hazy.
S. S. Furnesia, Liverpool, Eng †	29.80	756.9	58	14.4	100	se.			2		10			0	0			hazy.
S. S. Elysia, N. 49° 10' W. 33° 30'	30.01	762.2	52.8	11.6		e.			3		6		e.	0	0	sli't	e.	cloudy.
S. S. Carroll, Port Hawkesbury, C. B *†	29.72	754.9	63	17.2	94	s.			1		10		s.	rain	rain			foggy.
S. S. Jerome, N. 32° 44', W. 67° 38'			75	23.9	90	s.			3		0			0	0	sm'h		clear.
S. S. Llandaff City, N. 49° 38' W. 24° 20'.†	29.92	760.0	56	13.3		nnw.			6		9		n.	0	0	high	n.	cloudy.
S. S. Marathon, Malta, Mediterranean	30.06	763.5	78	25.6		wnw.			2		1		wnw.	0	0	sm'h	n.	fine.
S. S. Pavonia, N. 40° 40', W. 59° 50'	29.92	760.0	70	21.1	90	ssw.			4		2		sw.	0	0	sli't	ene.	clear.
S. S. Scythia, N. 44° 28', W. 46° 50'	29.84	757.9	52	11.1	100	n.			4		9		ene.	1 h'r	1 h'r	h'vy	n.	hazy.
S. S. Rhiwindda, N. 48° 54' W. 37° 04'			58	14.4		e.			4		4		ese.	0	0	cross		fine.
S. S. France, N. 49° 15', W. 12° 55'†	29.63	752.7	59.0	15.0		e.			2		3		e.	0	0	sm'h	ese.	threatening.
S. S. Ville de Marseilles, N 46° 02', W. 3° 15' *	29.79	756.7	61	16.1		s.			5		8		s.	sh'rs	sh'rs	sm'h		clearing.
S. S. Abyssinia, N. 42° 11', W. 56° 08'	29.98	761.5	64	17.8	89	sw.			4		8		ssw.	0	0	mod.	e.	cloudy.
S. S. Bohemia, New York, N. Y †	29.98	761.5				ne.			2		2		ne.	8 h'r	8 h'r			fair.
S. S. Gellert, N. 41° 42', W. 50° 03'	30.01	762.2	54	12.2	87	nnw.			5		10		nnw.	0	0	mod.	nnw.	covered.
S. S. Rugia, Hamburg, Germany	29.76	755.9	76	24.4		n.			3		5		nnw.	0	0			fair.
S. S. Silesia, N. 44° 27', W. 28° 32'	30.01	762.2	67.5	19.7		se.			5		4		se.	0	0	4	se.	fair.
S. S. Wieland, N. 48° 43'. W. 25° 08'	30.03	762.7				ne.			4		10		ne.	4 h'r	4 h'r	r'gh	ne.	misty.
S. S. City of Berlin, N. 40° 47', W. 65° 47'	29.84	757.9	66	18.9	94	w.			2		4		w.	0	0	sli't	nw.	fine.
S. S. Mentmore, N. 38° 59', W. 71° 42' *†	29.89	761.7				wsw.			4		10		nw.	0	0	mod.	w.	gloomy.
S. S. Bulgarian, N. 47° 00', W. 41° 40' *	29.92	760.0				e.			5		10		w.	0	0	light	se.	cloudy.
S. S. Hevelius, N. 15° 00', W. 26° 30'			76	24.4		ne.			5		6		ene.	0	0	sm'h		fair.
S. S. Ptolemy, N. 23° 30', W. 20° 15'	30.21	767.3	75.2	24.0	64	ne.			3		2 k			0	0	2	ne.	clear.
S. S. Colorado, New York, N. Y †	29.92	760.0	66	18.9		sw.			1		2		sw	5 h'r	5 h'r			clear.
S. S. Chalmette, N. 25° 42', W. 84° 37' †	30.03	762.7	79	26.1		sse			4		2		sse.	5 h'r	5 h'r	sm'h		clear
S. S. New York, N. 32° 42', W. 77° 30'*†	30.04	763.0	80	26.7		sw.			4		8		sw.			mod.	sw.	cloudy.
S. S. Hermod. N. 19° 38', W. 56° 10' †	30.12	765.0	79	26.1		ene.			2		6		ne.	0	0	sm'h	ne.	fair.
S. S. Alleghany, Boston, Mass †	29.78	756.4	70	21.1		w.			4		4		sw.	6 h'r	6 h'r			fair.
S. S. Archimede, Palermo, Sicily †	30.12	765.0	74	23.3	72	ene.			2		2		ne.	0	0			clear.
S. S. City of Merida, N. 19° 11', W. 96° 08'†	29.87	758.7	82	27.8		calm			0		5			0	0			fair
S. S. City of Washington, Havana, Cuba, W. I†	30.03	762.7	82	27.8		s.			3		8		s.	3 h'r	3 h'r	sm'h		cloudy.
S. S. Denmark, N. 41° 42', W 45° 20'†	29.69	754.1	63	17.2		nnw.			6		8		nnw.	0	0	r'gh	nw.	cloudy.
S. S. England, N. 40° 42', W. 56° 12'	30.02	762.5	59	15.0		s.			3		10		s.	0	0	mod.	w.	overcast.
S. S. Erin, N. 42° 38' W. 43° 01'	29.67	753.6	68	20.0		calm			0		0			6 h'r	6 h'r	sm'h		clear
S. S. Helvetia, N. 51° 14', W. 13° 30'	29.72	754.9	64	17.8	89	ene.			1		2		ene.	0	0	light	e.	clear.
S. S. The Queen, N. 45° 02', W. 39° 04'	29.70	754.4	63	17.2	72	ene.			6		10		ne.			r'gh	ene.	misty.
S. S. Braunschweig, N. 41° 05', W. 49° 13'	29.86	758.4	47.0	8.3	92	nne.			5		10		nne.	8 h'r	8 h'r	mod.	nne.	foggy.
S. S. Elbe, N. 40° 52', W. 67° 09'	29.83	757.6	54	12.2	100	sw.			3-4		10			0	0	sm'h	sw.	dense fog.
S. S. Fulda, N. 49° 42', W. 8° 34'	29.64	752.9	65	18.3	78	e.			4		5		e.	1 h'r	1 h'r	mod.	wnw.	fair.
S. S. Habsburg, N. 49° 28', W. 22° 41'	29.91	759.7				n.			6		6		n.	2½h'r	2½h'r	long	n.	fair.
S. S. Hermann, N. 50° 07', W. 3° 58'	29.76	755.9	57	13.9	81	ese.			3		8		ese.	0	0	mod.	ese.	cloudy.
S. S. Main, N. 41° 00', W. 61° 59'	29.92	760.0	61	16.1		wsw.			3		9		sw.	6 h'r	6 h'r	mod.	sw.	foggy.
S. S. Salier, N 41° 15', W. 66° 45'*	29.78	756.4	52	11.1	60	s.			5		8		s.	4 h'r	4 h'r	sm'h	ssw.	rainy.
S. S. Strassburg, N. 44° 46', W. 36° 41'	29.67	753.6	61.5	16.4	97	e.			6		10		e.	12 h'r	12 h'r	6	e.	hazy.
S. S. Werra, N. 51° 25', E. 1° 56'	29.83	757.6	54	12.2		ene.			3-4		3		ene.	0	0	sm'h	ene.	clear.
S. S. City of Augusta, New York, N. Y						wsw.			5		4		sw.	0	0			fair.
S. S. Colon, New York, N. Y †	29.91	759.7	70	21.1		calm			0		0			0	0			clear.
S. S. Muriel, Martinique, W. I	30.06	763.5	82	27.8		e.			2		10		e.	shr's	shr's	sm'h		cloudy.
S. S. Orinoco, N. 34° 50'. W. 66° 55' †	30.21	767.3	78	25.6		sw.			3		2			0	0	light	wnw.	clear.
S. S. Rhynland, Antwerp Belgium	29.76	755.9	57	13.9	94						4		ssw.	6 h'r	6 h'r	mod.		fair.
S. S. Pennland, N. 43° 46', W. 40° 03'	29.74	755.4	65	18.3	78	nne.			4		3		ene.	6 h'r	6 h'r	high	ene.	clear.
S. S. Switzerland, N 40° 43', W. 68° 11'†.	29.86	758.4				sw.			3		10		sw.	0	0	mod.	sw.	foggy.
S. S. Waesland, N. 44° 48', W. 37° 55'	29.74	755.4	63	17.2		e.			6		10		e.	10 h'r	10 h'r	high	e.	cloudy.
S. S. P. Caland, Jersey City, N. J	29.85	758.2	72.3	22.4	90	calm			0		7		s.					fair.
S. S. Rotterdam, N. 47° 57', W. 26° 50'	30.04	763.0	59	15.0	70	n.			4		5		n.	0	0	4	nne.	fair.
S. S. W. A Scholten, Rotterdam, Holland	29.75	755.6	55.3	12.9	81	ne.			2		9		ese.	0	0			cloudy.
S. S. Caracas, La Guayra, Venezuela †	30.02	762.5	78.5	25.8	91	calm			0				ene.	1 h'r	1 h'r	mod.	ne.	hazy.
S. S. State of Georgia, N. 51° 08', W. 24° 42'			52	11.1		n.			4		3		n.	0	0	sli't	ne	clear.
S. S. State of Indiana, N. 49° 00', W. 44° 55'*†	29.94	760.5	47	8.3		se.			1		1			0	0	sm'h		clear.
S. S. State of Nebraska, N. 40° 16', W. 68° 10' *†	29.86	758.4	59	15.0		sw.			5		8		w.	0	0	sm'h		dense fog.
S. S. Thingvalla, N. 49° 16', W. 40° 26' †	29.99	761.7	58.1	14.5		ssw.			2		3		ssw.	0	0	long	sw.	clear.
S. S. Toledo, N. 47° 03' W. 6° 49'			60	15.6		s.			4		7		s.	sh'rs	sh'rs	h'vy	sw.	fair.
S. S. Romano, N 47° 46', W. 20° 45'†	29.86	758.4	58	14.4		nw			6		9		nw.	3 h'r	3 h'r	r'gh	nw.	squally.
S. S. Lake Huron, off Queenstown, Ireland	29.72	754.9	60	15.6		se.			2		0			0	0	long	sw.	clear.
S. S. Lake Manitoban, Lake St. Peter, Quebec			74	23.3		n.			2		0			0	0			clear.
S. S. Daniel Steinmann, N. 51° 11' W. 22° 27'†	29.85	758.2	55	12.8		nw.			6		0			0	0	hv'y	nw.	clear
S. S. Plantyn, N. 49° 32', W. 5° 10'	29.94	760.5							1		2		nnw.	8 h'r	8 h'r	sm'h	n.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Norman, N. 39° 00′, W. 75° 10′	29.79	756.7				calm			0		10			4 h'r	4 h'r	sm'h		cloudy.
S. S. Saxon, Philadelphia, Pa †	29.91	759.7				sw.			3		9			0	0			
S. S. Adriatic, N. 50° 42′, W. 14° 20′*†	29.84	757.9	60	15.6		ene.			5		2		ene.	2 h'r	2 h'r	sll't	ene.	clear.
S. S. Baltic, N. 41° 42′, W. 60° 23′*	29.93	760.2	70	21.1	90	sw.			2		5		w.			sll't	var.	showery.
S. S. Britannic, N. 43° 26′, W. 54° 13′†	30.05	763.3	51	10.6		s.			3		10		sw.	0	0	sm'h	ne.	overcast.
S. S Celtic, N. 50° 15′, W. 24° 10′†	29.93	760.2	62	16.7		n.			4		10		n.	0	0	mod.	nnw.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.10	764.5	66	18.9	76	w.			3		2			0	0			clear.
Schr. Abbie H. Gheen, Mayport, Fla†	30.09	764.3	78	25.6		ssw.			1									fair.
Bk. Aquidneck, N. 35° 44′, W. 60° 59′*†	30.20	767.1				sw.			2		0			0	0	light	sw.	clear.
Bg. Alcira, N. 31° 22′, W. 73° 50′	30.15	765.8	79	26.1		s.			3		4		sse.	0	0	mod	se.	fair.
Schr. Anna A. Holton, N. 38° 21′, W. 74° 14′ *†	30.02	762.5	71	21.7		sw			4		10		sw.	6 h'r	6 h'r	r'gh	ssw.	raining.
Schr. Authur Burton, N. 33° 00′, W. 77° 10′†	30.03	762.7				nnw.			2		8		nw.	1 h'r	1 h'r	r'gh	sw.	threatening.
Bk. Aureola, N. 40° 28′, W. 42° 00†	29.60	751.8	71	21.7		n.			6		7		n.	1 h'r	1 h'r	h'vy	wnw.	fair.
Bk. Arda, Sackville, N. B†	29.75	755.6				sw.			3		3		sw.	1 h'r	1 h'r			clear.
Bk. Alba, N. 43° 06′, W. 57° 28′ *†	29.95	760.7	53.6	12.0		sse.			4					0	0			
Bg. Belle of the Bay, Galveston, Texas†	29.86	758.4				se.			2		5		s.	0	0			fair.
Sch. C. R. Flint, N. 23° 51′, W. 87° 24′†	29.98	761.5	81	27.2		se.			1		2		se.	0	0	sm'h		fair.
Bk. Childwall, N. 47° 42′, W. 15° 15′			58	14.4		n.			5		6		nne.	1 h'r	1 h'r	light	nw.	fine.
Bk. Cato, Bodöe, Norway *†	30.00	762.0				ne.			3									
S Criterion, N. 46° 09′, W. 43° 24′*†	29.80	756.9				ne.			4		10		ne.	rain	rain	light	ne.	overcast.
Schr. Clotilde, Tampico Bar, Mexico *†	29.83	757.7	83	28.3		calm			0		0			0	0	sm'h	ese.	clear.
S. David Stewart, N. 10° 18′, W. 29° 53′†	29.95	760.7				ene.			6		4		ene.	0	0	mod.	ene.	
S. S. D. J. Foley, N. 27° 49′, W. 74° 10′*†	30.10	764.5	80	26.7	82	se.			3		3		se.	0	0	sm'h		fair.
Bkt. David A. Preston, Navassa, W. I						se.			5		2		se.	0	0	long	se.	
S. E. J. Spicer, N. 48° 00′, W. 30° 18′	30.08	764.0	56	13.3	87	e.			5		7		ne.	0	0	mod.	ene.	fair.
Bk. E. D. Bigelow, N. 51° 48′, W. 7° 00′ *†	29.75	755.6	65	18.3		e.			2		5		sse.	0	0	long	sw.	misty.
U. S. Fish Com. S. S. Fish Hawk, Windmill Pt., Va †.	29.96	761.0	75	23.9	90	sw.			2		10		sw.	0	0			cloudy.
Schr. F. E. Waters, Chesapeake Bay *†	30.00	762.0				s.			1				sse.	0	0			fair.
Bgt. George, N. 33° 24′, W. 69° 00′ *†	30.15	765.8	72	22.2		sw.			3		2		sw.	0	0	sm'h		fair.
Bk. Galeon, N. 21° 35′, W 88° 50′†	29.90	759.4	78	25.6		ese.			3		3		se.	0	0	sm'h	ene.	blue sky.
Bk. Heinrich & Tonio, N. 47° 41′, W. 19° 30′†	29.71	754.6	63	17.2		nw.			4		2		nw.	0	0	mod.	nw.	fair.
S Hedwig, N. 38° 08′, E. 9° 48′	29.97	761.1	71.4	21.9	87	e.			3		1		e.	0	0	sm'h	e.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C †	29.96	761.0	73	22.8		sw.			2		8		s.	5 h'r	5 h'r			threatening.
Bk. Horace Scudder, N. 2° 20′, W. 35° 25′ *†	30.09	764.3	82	27.8		s.			3		4		s.	0	0	light	s.	fine.
Schr. Isabel Alberto, off Navesink Light, N. J †	29.89	759.2				sw.			1		8		sw.	sh'rs	sh'rs	sharp	sse.	foggy.
Bk. Johanne, N. 44° 52′, W. 14° 30′*†	29.70	754.4	63	17.2		wnw.			6		8		wnw.	5 h'r	5 h'r	cross	wnw.	hazy.
Schr. John L. Thomas, N. 17° 00′, W. 83° 50′*†	29.98	761.5				s.			3		10		s.	1 h'r	1 h'r	mod.	e.	threatening.
Bg. John Wesley, N. 33° 27′, W. 47° 44′*†	29.95	760.7	73	22.8		wnw.			5		2		nw.	1 h'r	1 h'r	long	nw.	clear.
Schr. Jennie N. Huddell, Charleston, S. C.†	29.99	761.7	75	23.9	95	s.			1		10		sw.	sh'rs	sh'rs			cloudy.
S. J. W. Gildemeister, N. 38° 42′, W. 65° 51′	30.01	762.2	75.2	24.0	87	sw.			5–6		3		sw.	0	0	4–5	sw.	d. clouds.
Bkt. Kryolith, Ivigtut, Greenland *†	29.63	752.6				s.			6		10		s.	0	0			squally.
Bg. L. & W. Armstrong, N. 34° 56′, W. 65° 12′*†	30.22	767.6				sw.			5		2		ssw.	0	0	sm'h	s.	fine.
Light House Tender Laurel, Cedar Keys, Fla†	29.92	760.0	80	26.7		sse.			4		9		sse.	2 h'r	2 h'r			cloudy.
Bg. Lillan, N. 34° 55′, W. 74° 44′†	30.01	762.2	78	25.6		ssw.			4		10		sw.	2½h'r	2½h'r	mod.	s;sw	heavy rain.
Bk. Louise Adelaide, Matanzas, Cuba, W. I†	30.04	763.0	83	28.3		calm			0		1			1 h'r	1 h'r			fair.
Bk. Milo, N. 44° 09′, W. 38° 20′†	29.60	751.8				ese.			1				e.			long	ene.	overcast.
S. S. Madrid, Gibraltar, Mediterranean †	30.01	762.2	70	21.1	90	w.			6		0			0	0	sm'h		fair.
Schr. Minnie A. Bonsall, Bridgeport, Conn †	29.84	757.8	78	25.6		sw.			2					0	0			clear.
Bk. Matilda C. Smith, N. 47° 34′, W. 15° 10′†	29.66	753.4				n.			3		3		n.	4 h'r	4 h'r	mod.		fine.
Bgt. Myrtle, Barbadoes, W. I.*†	30.10	764.5				ese.			3					4 h'r	4 h'r			stormy.
Bk. Matthias, N. 49° 20′, W. 5° 14′ *†	29.92	760.0	60	15.6		e.			2–3		8		e.	0	0	sm'h	sse.	hazy.
Schr. Maggie Abbott, Baracoa, Cuba†	30.01	762 2									3		calm	0	0			clear.
Bk. National Eagle, N. 38° 27′, W. 37° 21′						w.			3		2		w.	5 h'r	5 h'r	mod.	w.	
Bg. O. C. Clary, N. 32° 58′, W. 64° 10′*†	30.20	767.1				sw.			2		0					sm'h	se.	clear.
Bk. Ottawa, N. 49° 21′, W. 5° 03′	29.75	755.6	56	13.3		ese.			4		8		s.	0	0	long	sw.	cloudy.
S. Paramita, N. 17° 21′, W. 37° 33′ †	30.09	764.3	78	25.6		ne.			5		6		nne.	light	light	long	ne.	fair.
S. S. Raleigh, N. 29° 20′, W. 74° 15′†	30.12	765.0	77	25.0		ese.			2		2		se.	0	0	sm'h		fine.
Bg. Rising Sun, N. 13° 40′, W. 59° 40′†	30.05	763.3	80	26.7		e.			4		10		e.	h'vy	hv'y	short	e.	rainy.
Bk. Rosino, N. 40° 31′, W. 27° 24′			64	17.8		se.			4		10		s.	0	0	r'gh	n.	gloomy.
Bk. Sunbeam, N. 40° 26′, W. 43° 29′†	29.65	753.1	64	17.8	89	n.			6		5		ne.	6 h'r	6 h'r	r'gh	w.	fair.
Bk Southern Belle, N. 28° 30′, W. 39° 30′†	30.12	765.0	74	23.3		wsw.			4		2		w.	½ h'r	½ h'r	mod.	var.	clear.
S. Sovereign of the Seas, N. 38° 04′, W. 59° 21′			74	23.3	95	w.			2		6		w.	light	light	mod.	ne.	hazy.
Ex. Usko, Calais, France*	29.78	756.4	59	15.0		ne.			2		5			0	0			fair.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†	30.06	763.5	79	26.1		calm			0		4		calm	2 h'r	2 h'r			fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†	29.98	761.5	54	12.2	98	nne.			4		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony, Africa.	30.15	765.8	64	17.8		nw.			3		8							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata	29.94	760.5	55.7	13.2	89	n.			2		0							blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*.	30.00	762.0	51	10.6	86	nne.	4	1.8			2		calm	0	0	sm'h		fair.
U. S. S. Galena, Montevideo, Uruguay*	30.00	762.0	53	11.7	79	nne.			2		2		nne.			sm'h		fair.
S. Wm. McGilvery, S. 24° 57′, W. 41° 07′ *†	30.30	769.6	72	22.2	80	ene.			4		3		ne.	0	0	mod.	sw.	
May Hulse, S. 17° 00′, W. 25° 15′	30.15	765.8	75	23.9	90	ese.			3		6							d. clouds.
S. S Olbers, S. 0° 21′, W. 27° 55′ †	30.04	763.0	84	28.9	68	se.			5		6		ese.	5 minutes		mod.	sse.	fair.
Bk. Achille F, S. 12° —′, W. 31° —′†	30.08	764.0	79	26.1	76	e.			5		0			0	0	mod	ese.	clear.
Bk. Alpheus Marshall, S. 20° 13′, E. 1° 32′ *†	30.07	763.8				se.			1–2		9		calm	0	0	mod.	w.	cloudy
Bk. Ceylon, S. 31° 10′, E. 13° 13′*†	30.18	766.6	71	21.7	85	nnw.			4		9		nnw.	0	0	long	w.	misty.
S. Dynomene, S. 25° 50′, E. 11° 08′	30.16	766.1	68	20.0	84	se.			1		3			0	0	mod.	sw.	clear.
Bk. Adelaide, S. 13° 37′, W. 35° 00′*†	30.20	767.1	82	27.8		ese.			5		1		s.	0	0	mod.	ssw.	clear.
H. P. M. S. Duque de Tercelra, Mossamedes, Beng'la.	30.02	762.6	65.5	18.6	79	nw.			2		0			0	0	2	sw.	blue sky.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 32° 54′, E. 123° 02′	29.89	759.2	65	18.3	84	se.			3		4	ese.						d. clouds.
H. M. S. Champion, Labuan Id., Borneo	29.77	756.1	80	30.0	100	calm			0		4							d. clouds.
H. M. S. Espiegle, N. 1° 03′, E. 173° 33′	29.92	760.0	82	27.8	75	calm			0		2					1	ene.	d. clouds
H. M. S. Flying Fish, N. 37° 13′, E. 126° 37′	29.90	759.4	64	17.8	94	wsw.			1		4	sw.						d. clouds
H. M. S. Magpie, N. 5° 16′, E. 115° 15′	29.84	757.9	84.9	29.4	79	calm			0		2							misty.
H. M. S. Sheldrake, N. 6° 18′, E 116° 00′			83	28.3		calm			0		2							d. clouds.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.92	760.0	70	21.1	90	e.			1		2							d. clouds
H.P. M. S. Tamega, Macao, China	29.83	757.7	81.7	27.6	80	e.			4		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.11	764.8	61	16.1	97	calm			0		10		nne.	0.14	3.6			raining.
U. S. S. Adams, Sitka, Alaska†	29.75	755.6	48	8.9	92	s.			2		10					sm'h		light rain.
U. S. S. Essex, N. 10° 35′, W. 137° 20′	29.86	758.4	79	26.1	86	nne.			2		2		nne.			sm'h	nne.	clear.
U. S. S. Hartford, Honolulu, Sandwich Ids*	30.03	762.7	77	25.0	73	calm			0		2			0	0			clear.
U. S. S. Monocacy, Salee river, Corea	29.92	760.0	64	17.8	83	w			2		5		calm					hazy.
U. S. S. Palos, Hong Kong, China	29.71	754.6	78	25.6	82	e.			3		0							clear.
U. S. S. Richmond, N. 23° 28′, E. 117° 40′ *	29.63	752.6	79	26.1	78	ene.			5		8		ene.	0	0	mod.	ne.	cloudy.
S. S. Arabic, N. 47° 54′, W. 177° 51′			40	4.4	91	ne.			4		4		ene.	0	0	mod.	se.	fair.
S. S. Oceanic, Yokohama, Japan	30.10	764.5	70	21.1	75	var.			4		4							fair.
S. S. Oregon, Columbia river, Oregon †	30.29	769.4	53	11.7	93	nw.			1		0							clear.
S. S. Ancon, N. 32° 59′, W. 117° 35′†	29.92	760.0	62	16.7	88	s.			2		10					light	w.	foggy.
S. S. City of Chester, Hookton, Cal †	29.95	760.7	55	12.8	87	calm			0		0							clear.
S. S. Dakota, Seattle, Wash. Ter.†	30.31	769.9	58	14.4	82	se.			3		3		s.			sm'h	nw.	clear.
S. S. Queen of the Pacific, Hunter's Point, Cal.†	29.89	759.2				calm			0		10			0	0			hazy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. City of Rio de Janeiro, N. 33° 55′, E. 137° 00′†	29.99	761.7	72	22.2	80	sw.	.....	.....	1	.....	8	.....	sw.	0.1	3.	sm'h	.....	hazy.
S. S. Colima, N. 20° 38′, W. 106° 00′†	29.91	759.7	75	23.9	77	wsw.	.....	.....	3	.....	2	.....	calm	0	0	small	w.	clear.
S. S. Granada, San Jose, Gautemala †	29.90	759.4	78	25.6	73	wsw.	.....	.....	2	.....	5	.....	ne.	1 h'r	1 h'r	.....	.....	fair.
S. S. San Blas, Panama, Panama	.....	.....	82	27.8	.....	e.	.....	.....	2	.....	6	.....	s.	1 h'r	1 h'r	.....	.....	threatening
S. S. Zealandia, N. 31° 04′ W. 140° 07′	.....	.....	72	22.2	90	e.	.....	.....	6	.....	0	.....	.....	.....	.....	h'vy	ne.	clear.
S. S. Benledi, Nagasaki, Japan*	29.91	759.7	73	22.8	72	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Radnorshire, Yokohama, Japan *†	29.90	759.4	.....	.....	.....	ne.	.....	.....	4	.....	6	.....	ne.	4 h'r	4 h'r	.....	.....	showery.
S. Sacramento, N. 13° 00′. E. 120° 30′ *†	29.90	759.4	82	27.8	83	sw.	.....	.....	6	.....	10	.....	sw.	8 h'r	8 h'r	mod.	sw.	overcast.
S. St. David, N. 7° 00′ E. 107° 40′*†	29.81	757.2	85	29.4	83	wsw.	.....	.....	2	.....	4	.....	sw.	0	0	light	sw.	hazy.
Bk. Xenia, Shanghai, China	.....	.....	84	28.9	.....	e.	.....	.....	4	.....	3	.....	se.	0	0	.....	.....	clear.
H. M. S. Sappho, Acapulco, Mexico	29.92	760.0	80	26.7	96	calm	.....	.....	0	.....	3	nw.	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Ranger, San Jose, Guatemala	29.93	760.2	80	26.7	87	ne.	.....	.....	2	.....	5	.....	ne.	0.21	5.3	long	ssw.	fair
S. Henry Failing, N. 34° 20′, W. 121° 38′†	29.80	756.9	59	15.0	.....	sw.	.....	.....	3	.....	fg.	.....	.....	0	0	long	w.	foggy.
S. Grecian, Yokohama, Japan †	30.02	762.5	65	18.3	84	s.	.....	.....	4	.....	9	.....	s.	2 h'r	2 h'r	.....	.....	cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W	.....	.....	63	17.2	47	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Kingfisher, S. 27° 55′, W. 125° 24′	29.93	760.2	69	20.6	.....	sw.	.....	.....	3	.....	4	.....	.....	.....	.....	2	sw.	d. clouds
H. M. S. Nelson, Souva, Feejee Ids, Oceania	29.66	753.4	75	23.9	95	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
U. S. S. Iroquois, Valparaiso, Chili	30.10	764.5	57	13.9	87	ne.	.....	.....	2	.....	10	.....	ne.	.....	.....	.....	.....	cloudy.
U. S. S. Lackawanna, S. 22° 31′, W. 90° 41′*	30.08	764.0	67	19.4	95	ene.	.....	.....	3	.....	10	.....	n.	.....	.....	sm'h	se.	cloudy.
U. S. S. Onward. Callao Peru†	30.12	765.0	65	18.3	78	se.	.....	.....	2	.....	10	.....	se.	.....	.....	.....	.....	cloudy.
U. S. S. Pensacola, Callao, Peru*	29.97	761.2	64	17.8	89	sse.	3	1.3	.....	.....	10	.....	sse.	0	0	.....	.....	cloudy.
U. S. S. Wachusetts, Tahiti, Society Ids, Oceania*†	30.04	763.0	76	24.4	82	se.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Australia, Sydney, N. S. W	30.07	763.8	55	12.8	93	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.91	759.7	80.3	26.8	89	e.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	.....	showery
S. S. City of Sydney, Sydney, N. S. W *†	30.37	771.4	55	12.8	87	ssw.	.....	.....	1	.....	6	.....	ssw.	.....	.....	.....	.....	fair.
Bk. Chas. Stewart, S. 29° 30′. E. 154° 20′†	30.41	772.4	72	22.2	.....	sse.	.....	.....	4	.....	8	.....	s.	.....	.....	mod.	se.	showery
S. Parker M. Whitmore, S. 51° 01′, W. 83° 50′ *†	29 23	742.4	43	6.1	.....	w.	.....	.....	7	.....	6	.....	w	6 h'r	6 h'r	high	var.	fair.
S. Storm King, S. 48° 20′, W. 77° 28′ *†	29.70	754.4	.....	.....	.....	nnw.	.....	.....	5	.....	5	.....	nw.	0	0	mod.	w.	fair.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.06	763.5	82	27.8	91	sse.	.....	.....	3	.....	2	sse	.....	.....	.....	3	sse.	d. clouds.
U. S. S. Enterprise, Madagascar, Africa*	30.13	765.3	74	23.3	72	wsw.	.....	.....	3	.....	2	.....	sw.	.....	.....	sm'h	.....	clear.
U. S. S. Juniata, N. 14° 46′, E. 72° 42′	29.74	755.4	77	25.0	?	nw.	.....	.....	3	.....	10	.....	nw.	hv'y	hv'y	long	w.	rainy.
S. S. Galatia, N. 13° 51′, E. 48° 32′ *†	29.78	756.4	87	30.6	.....	se.	.....	.....	2	.....	1	.....	se.	0	0	long	ese	clear.
S. S. Malabar, Bassein, India *†	29.65	753.1	.....	.....	.....	sw.	.....	.....	3	.....	5	.....	sw.	10 h'r	10 h'r	sm'h	.....	squally.
S. Annie M Law, S. 36° 35′, E. 22° 26′ *†	30.15	765.8	62	16.7	.....	ssw.	.....	.....	1	.....	8	.....	sw.	1 h'r	1 h'r	con.	sw.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 9, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.1	73.4	23.0	88	ne.			1		0			0	0	clear	Malaterre.
Algiers			30.00	762.0	77.0	25.0	47	wnw.			3		0			inap.	inap.	clear	Thève.
La Calle			29.94	760.5															Fonfrède.
Tunis			29.97	761.3															Jacques.
Saida			30.06	763.4															Pérès.
Tebessa			30.02	762.5	88.2	31.2	50	se.			3		0			0	0	clear	St. Martin.
Geriville					88.7	31.5	5	ne.			3		0			0	0	clear	Forfert.
Laghouat			29.93	760.2	92.5	33.6	5	se.			6		0			0	0	clear	Abraham.
Biskra			29.95	760.8	99.7	37.6	11	e.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.31	769.9	50.3	10.2	81	n.	6	2.7		1 cs				0.003	0.1	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.22	767.6	30.31	769.9	46.8	8.2	85	nnw.	6	2.7			10			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.31	744.4	29.83	757.6	78.8	26.0	45	sw.			3		1			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.02	737.2	29.76	756.0	67.6	19.8	78	s.	6.3	2.8			10			0.079	2.0		Dr. Wierzbiski
Eperies	28.91	734.3	29.76	755.8	67.8	19.9	83	calm			0		10 s			0.130	3.3		Julius Mikolik.
Gratz	28.58	726.0	29.88	759.0	76.3	24.6	67	w.			2		4			0.213	5.4	lightning	Andreas Rospini.
Hermannstadt	28.43	722.0	29.78	756.3	77.5	25.3	47	se.			2		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.54	724.9	29.83	757.7	69.6	20.9	59	nnw.			2		8			0.039	1.0		The Staff.
Lemberg	28.81	731.8	29.75	755.6	74.3	23.5	59	se.			4		3			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.82	757.5	29.93	760.2	76.5	24.7	56	sse.			3		5			0	0		I. R. Hydrographic Office.
Szathmar	29.30	744.2	29.74	755.5	78.1	25.6	56	s.			4		10			0	0		Joseph Midlinszky, S. J.
Szegedin	29.47	748.6	29.74	755.3	76.3	24.6	56	sw.			1		6			0.079	2.0	lightning	Karl Stancel.
Trieste	29.80	756.8	29.89	759.3	80.6	27.0	37	sw.			1		5			0.118	3.0		Royal Academy.
Vienna	29.15	740.3	29.83	757.7	75.4	24.1	50	nw.			2		5			0.469	11.9	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.81	757.2	29.91	759.7	51.6	10.9	79	e.	13	5.8			1			blank	blank	blue sky	W. Boswell.
Armagh, Observatory	29.73	755.1	29.95	760.7	59.9	15.5	82	nne.	3	1.3			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.90	759.4	57.9	14.4	78	nw.	11	4.9			7					d. clouds	John Hartnup.
Bolton, Sharples	29.35	745.5	29.87	758.7	65.9	18.8	59	nw.	6	2.7			5					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.48	748.8	29.88	758.9	61.4	16.3	58	se.			1		9			0.05	1.3	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.08	764.0	30.11	764.8	84.0	28.9	71	ne.			3		3					d. clouds	Corpl. W. I. Cull, A.H.C.
Cardington	29.78	756.4	29.89	759.2	69.0	20.6	59	n.			0.4		8					overcast	John McLaren.
Chatham, School M. E.	29.76	755.9	29.89	759.2	65.0	18.3	68	ne.			1		4					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.66	753.4	29.89	759.2	60.5	15.8	89	ese.			1		4					d. clouds	The Staff.
Fort Napier, Natal	27.69	703.3	29.92	760.0	73.5	23.1	38	e.			1		2					blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.58	751.3	29.81	757.2	79.0	26.1	82	sw.			1		2					raining	J. W. Smith.
Galway, Queen's College	29.88	758.9	29.90	759.4	63	17.2	67	ne.			1		3			0.20	5.1	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	74.1	23.4	86	nw.			2		2					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.69	754.1	29.90	759.4	60.6	15.9	61	wnw.			2		4					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.71	754.6	29.87	758.7	70.4	21.3	56	ene.			1		3					d. clouds	The Staff.
Guernsey	29.61	752.1	29.90	759.4	57.0	13.9	94	ssw.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.85	758.2	29.88	758.9	66.6	19.2	59	e.	6	2.7			4					misty	The Staff.
Leicester, Museum	29.62	752.3	29.88	758.9	57.0	13.9	96	s.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.98	761.5	76.2	24.6	82	w.										blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.09	764.3	85.0	29.4	72	se.			3		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.38	746.2	29.90	759.4	67.6	19.8	60	s.			1		4					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.65	753.1	29.88	758.9	65.9	18.8	64	ne.			1		7					d. clouds	The Staff.
Plymouth	29.79	756.7	29.87	758.7	61.0	16.1	82	sw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.80	756.9	29.90	759.4	50	10.0	87						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.74	755.4	29.81	757.2	77.0	25.0	65	ssw.			1		6					d. clouds	W. H. Lyne.
Sheffield	29.64	752.8	29.91	759.7	67.5	19.7	72	e.			1		9			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.87	758.7	29.90	759.4	63.8	17.7	71	wsw.			2		3			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.90	759.4	66.2	19.0	41	wnw.	10	4.5								misty	W. C. Carlisle.
Truro, Royal Institution	29.79	756.7	29.88	758.9	72	22.2	71	w.			2		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.97	761.2	30.00	762.0	61.6	16.4	67	nnw.	14	6.3			6					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.67	753.6	30.06	763.5	79.5	26.4	35	sw.	3.7	1.7						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.79	756.7	29.83	757.7	60	15.6	68	ne.	4	1.8		0	0			0.255	6.5	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.89	759.2	29.95	760.7	57	13.9	74	se.	1	0.4		8 ck	0	se.		0.99	25.1	fair	G. A. Blair.
Cornwall, Ontario	29.66	753.4	29.85	758.2	56.2	13.4	87	sw.			1		9 s			inap.	inap.	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.86	758.4	29.91	759.7	52.5	11.4		w.			1		0			0.280	7.1	blue sky	H. A. Johnson.
Father Point, Quebec*	29.84	757.9	29.86	758.4	52	11.1	90	calm	0	0		2 s	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.12	739.6	29.96	761.0	42	5.6	82	e.	6	2.7		0	0			0.01	0.3	clear	James Stewart.
Fredericton, N. B	29.90	759.4	29.96	761.0	58.0	14.4	79	n.	1	0.4		2 ck	0			0.335	8.5	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	28.71	729.2	29.79	756.7	56.0	13.3	87	e.	2	0.9			10 n			inap.	inap.	raining	Jas. Grant.
Halifax, N. S*	29.84	757.9	29.96	761.0	63	17.2	84	calm	0	0		0	0			inap.	inap.	clear	A. Allison.
Hamilton, Ontario	29.36	745.7	29.75	755.6	59.7	15.4		ne.			2	cs	0	e.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.54	750.3	29.87	758.7	58	14.4	81	sw.	5	2.2			10 s		sw.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.86	758.4	29.90	759.4	56.5	13.6	72	sw.			2	3 c	0	sw.		0	0	blue sky	C. H. Rigby.
London, Ontario	28.92	734.6	29.80	756.9	58.7	14.8	75	sw.			1		10 n			0	0	overcast	E. B. Reed.
Montreal, Quebec*	29.69	754.1	29.89	759.2	63	17.2	73	sw.	7	3.1			10 s			0.16	4.1	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.62	752.3	29.86	758.4	58.0	14.4	90	s.			1		10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.15	740.4	29.83	757.7	56	13.3	74	ne.	7	3.1		2 k	5 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.12	739.6	29.83	757.7	62.7	17.1	94	w.			1	0	8 ks			0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.12	739.6	29.80	756.9	58	14.4	82	calm	0	0			10 cs			0	0	cloudy	H Morgan.
Port Stanley, Ontario	29.14	740.1	29.76	755.9	61	16.1	87	e	10	4.5			10 n		w.	inap.	inap.	clear	M. Payne.
Quebec, Quebec*	29.53	750.0	29.88	758.9	59	15.0	87	calm	0	0		10 c	0			0.08	2 0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.40	746.7	29.85	758.2	53	11.7	80	calm	0	0			10 s		nw.	inap.	inap.	light rain	W. H. McIntyre.
St. Andrews, N. B.	29.88	758.9	29.93	760.2	62	16.7	77	ne.	1	0.4		0	0			0.04	1.0	clear	
St. John, N. B	29.79	756.7	29.94	760.5	66.0	18.9	68	n.	1	0.4		0	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F.	29.58	751.3	29.83	757.7	52	11.1	86	sw.			2		10 n			0.22	5.6	overcast	J. Higgins.
St. Pierre, N. F.			29.80	756.9	55.4	13.0		nw.			6					0	0		The Commandant.
Saugeen, Ontario*	29.07	738.4	29.76	755.9	59	15.0	96	e.	5	2.2			10 ks			0	0	cloudy	
Stratford, Ontario	28.51	724.1	29.76	755.9	56.9	13.8	87	se.	3	1.3			10 s			0	0	d. clouds	G. J. Macgregor, M A.
Sydney, C. B*	29.85	758.2	29.91	759.7	62	16.7	65	calm	0	0		0	0			0.40	10.2	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.46	748.3	29.84	757.9	57	13.9	83	s.	2	0.9			10 n			0	0	cloudy	Magnetic Observatory.
Windsor, N. S	29.83	757.7	29.92	760.0	60.0	15.6	88	se.	2	0.9		1 cs	0			0	0	blue sky	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.75	730.2	29.79	756.7	58.3	14.6	89	e.	9	4.0		0	9 s			0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.88	758.9	29.95	760.7	56	13.3	90	sw.	2	0.9		0	0			0.04	1.0	clear	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.86	758.4	29.89	759.2	66.0	18.9	75	w.	7.0	3.1		0	9 ks			0	0	cloudy	John Burtt
Springbok Fontein	28.09	713.5			51	10.6	93	e.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Guelny.
Tchang-kia-tchouang	29.66	753.3	29.77	756.1	81.3	27.4	49	ne.			1		7			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.79	756.6	29.81	757.2	71.8	22.1	83	se.	15.0	6.7		10 ck	0	w.		0	0	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.77	756.1	29.82	757.3	59.9	15.5	90	ne.	9	4			10						Oversergent Fischer.
Fanoe	29.87	758.8	29.89	759.3	64.4	18.0	56	ne.			4		7						Overloerer Lauridsen.
Godthaab, Greenland	29.37	745.9	29.41	747.0	33.4	0.8	98	s.			6		10					rain & snow	S. Kleinschmidt.
Jacobshavn, Greenland	29.19	741.5	29.24	742.7	45.7	7.6		e.			6		4						
Stykkisholm, Iceland	29.77	756.2	29.82	757.3	43.5	6.4	90	w.			2		10						A. O. Thorlacius.
Thorshavn	29.73	755.2	29.76	755.8	50.2	10.1	88	w.	20	9			10						Overloerer Bergh.
Vestervig	29.84	757.8	29.93	760.1	53.4	11.9	76	nnw.			2		10						Loerer Oesterhol.
EGYPTIAN.																			
Cairo	29.67	753.6			98.2	36.8		ne.	7.6	3.4		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.28	743.6	29.91	759.7	62.2	16.8	91	wsw.			1		k			0.047	1.2		M. Labroue, Director.
Alençon, Normal School	29.38	746.3	29.93	760.3	64.0	17.8	82	ssw.			1		kn		nne.	0.28	7.		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.88	758.9	29.96	760.9	79.9	26.6	50	w.			1		2		w.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.42	747.3	29.97	761.1	64.9	18.3	68	sw.			2	0	8 kn		sw.	0.370	9.4	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.63	752.7	29.89	759.2	67.1	19.5	68	ssw.			1		8		s.	0.177	4.5	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.03	737.3	29.91	759.6	67.6	19.8	67	sw.			1		10		sw.			thund'rst'm	M. Gobin, Director.
Bordeaux, Observatory	29.74	755.5	30.00	762.0	64.6	18.1	60	sw.			3		5		sw.	0.366	9.3	cloudy	M. Rayet, Director.
Bourges, Normal School	29.39	746.4	29.92	759.9	67.1	19.5	50	wnw.			4		k		wnw.	0.028	0.7		M. Malet, Director.
Brest, Naval Observatory	29.67	753.6	29.91	759.8	64.8	18.2	86	calm			0		9			3.425	87.0	raining	M. de Kermarrec, Dir.
Caen, Normal School	29.77	756.1	29.84	757.9	59.4	15.2	93	w.			1		10		w.	1.85	47.	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.55	750.5	30.02	762.4	68.2	20.1	80	s.			2		10			0.276	7.0	covered	M. Jadot, Director.
Charleville, Normal School	29.39	746.4	29.88	759.0	65.8	18.8	79	se.			1		10			0.39	10.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.62	727.0	29.94	760.4	67.3	19.6	47	sw.			2	0	8 k			0.004	0.1	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.13	740.0	29.96	760.9	69.8	21	55	nw.			1		6		nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.07	738.4	29.92	759.9	59.4	15.2	87	wsw.			1		10	wsw.	wsw.	0.240	6.1	raining	Dr. Coulet, Director.
Gap, Normal School	27.45	697.3	29.89	759.3	70.7	21.5	62	s.			2	0	2 k		s.	0	0		M. Jeangirard, Director.
Grésasque, du Rhone	28.85	732.9	29.95	760.8	75.2	24.0	46	sw.			2		3			0	0		M. Kina, Director.
Grenoble, Normal School	29.17	741.0	29.93	760.1	64.4	18	86	ese.			1		ckn		wnw.	1.902	48.3		M. Ablard, Director.
Guéret, Normal School	28.41	721.5	29.97	761.1	60.8	16	83	sw.			1		10 n		sw.	0.130	3.3	raining	M. Delorme, Dir.
Lamballe, Normal School	29.75	755.6	30.02	762.4	61.9	16.6	94	s.					k		s.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.41	747.1	29.97	761.1	67.1	19.5	59	nw.			1	0	2 k			0.118	3.0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.78	756.3	29.88	758.9	63.0	17.2	80	sw.			1		10		s.	0.299	7.6	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.91	734.2	29.95	760.7	61.7	16.5	91	e.			1		10			0.307	7.8	stormy	M. André, Director.
Mans, Normal School	29.59	751.6	29.89	759.2	61.3	16.3	90	sw.			1		8		sw.	0.850	21.6	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.71	754.6	29.97	761.3	68.4	20.2	78	wnw.			1		5		w.	0	0		M. Stephan, Director.
Montlouis	24.87	631.6	29.71	754.6	58.3	14.6	52	se.	11.2	5.0			5	e.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.81	757.2	29.93	760.3	77.7	25.4	61	w.			2		2		w.			thund'r st'm	M. Galzin, Director.
Nancy, Normal School	29.15	740.5	29.93	760.1	59.0	15.0	93	ssw.			1		10 kn		wsw.	0.280	7.1	thund'r st'm	M. Hasse, Director.
Nantes, Observatory	29.73	755.2	29.89	759.3	60.1	15.6	85	wsw.			1–2	0	9kn; n		sw.	0.118	3.0	light rain	M. Larocque, Director.
Perpignan, Observatory	29.88	758.9	29.99	761.7	70.9	21.6	68	calm	0	0			9		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.23	539.2			37.0	2.8		w.			1		fg		sw.	0.031	0.8		M. Vaussenat, Director.
Privas, Normal School	28.89	733.9	29.92	759.9	71.1	21.7	61	n.			1		10 n		w.	0.807	20.5	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.13	638.4			43.9	6.6	81	wsw.			4		5			0.008	0.2	½ covered	M. Alluard.
Rochefort, Naval Obs'y	29.89	759.1	29.92	759.9	60.8	16.0	81	sw.			6		10		sw.	0.55	14.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.54	750.2	29.74	755.5	59.7	15.4	91	ssw.			1		5		sw.	0.205	5.2	raining	M. Brotier, Director.
Rodez, Normal School	27.78	705.7	29.88	758.9	64.4	18.0		e.			1	0	1 k		nw.	0.126	3.2	clear	M. Seger, Director.
Rouen, Normal School	29.86	758.5	29.91	759.7	60.4	15.8	78	sw.			1		10	sw.		0.024	0.6	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.75	755.6	29.91	759.7	61.9	16.6	92	sw.			1		10		sw.	0.453	11.5		M. Renou, Director.
Toulouse, Observatory	29.36	745.7	30.08	764.1	68.9	20.5	58	nnw.			2		5	nw.		0.677	17.2	cloudy	M. Baillaud, Director.
Tours	29.72	755.0	29.90	759.4	66.9	19.4	61	s.			1		10	w.	wsw.	0.441	11.2	stormy	M. de Tastes.
Versailles, Observatory	29.41	746.9	29.90	759.4	63.7	17.6	74	w.			1					0.642	16.3		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.91	759.7	30.06	763.5	69.3	20.7	55	w.	13.9	6.2		0	2 k		se.	0.102	2.6		M. Cartier, Director.
GERMAN.																			
Ansbach	28.48	723.4	29.88	759.0	67.6	19.8	65	calm			0		8			0.193	4.9		Prof. Jnedt.
Bamberg	29.00	736.5	29.84	757.8	68.9	20.5	64	w.			1	0	5 k; s		w.	0	0		Prof. Dr. Hoh.
Berlin	29.67	753.7	29.81	757.2	70.5	21.4	64	calm			0		8			0	0		Dr. Sensch.
Breslau	29.29	744.0	29.82	757.4	75.2	24.0	48	wnw.			4		9	wsw.		0	0		Royal University Obs'y.
Carlsruhe	29.44	747.7	29.88	759.0	72.5	22.5	55	ssw.			3		5	sw.		0.024	0.6		Albert Senz.
Cassel	29.15	740.3	29.86	758.4	64.2	17.9	74	nw.			2		7	s.		0.181	4.6		Dr. H. Möhl.
Frankfort-on-the-Main			29.87	758.7	68.9	20.5	63	sw.			1		7			0.228	5.8		Physical Society.
Friedrichshafen	28.50	723.9	29.86	758.5	70.2	21.2	68	sw.			3		3	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.79	756.7	29.88	759.0	66.6	19.2	63	nw.			1		3	wsw.		0	0		E. Prettler.
Kiel	29.86	758.5	29.88	758.9	61.7	16.5	72	ne.			2		5			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.45	748.1	29.86	758.4	71.2	21.8	52	wnw.			2		6	w.		0.244	6.2		H. Leppig, Asst.
Magdeburg	29.65	753.0	29.83	757.6	67.1	19.5	77	nw.			1		10	nw.		0.425	10.8		Weather Observatory
Memel	29.89	759.1	29.93	760.3	79.0	26.1	28	ese.			3	3 cs	0						Issermann.
Munich	28.12	714.2	29.98	761.4	65.3	18.5	56	n.			2		4	ne.		0	0		Central Station.
Neufahrwasser	29.82	757.3	29.83	757.7	74.5	23.6	52	e.			2		7			0.287	7.3		A. Lothes.
Neustadt, Palatinate	29.32	744.8	29.85	758.1	71.6	22.0	50	w.			2		6	n.		0	0		Dicknether.
Stuttgart	28.95	735.4	29.82	757.3	68.0	20.0	64	nw.			1		6	w.		0.094	2.4		Prof. Dr. Schoder.
Wustrow	29.84	758.0	29.87	758.7	60.8	16.0	79	wsw.			2		10 s			0.166	2.7		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.50	749.2	29.87	758.6	81.5	27.5		sw.			1.5		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.46	748.2	29.51	749.5	89.9	32.2	77	wsw.	22.0	9.8			4		wsw.	0	0	d. clouds	
Deesa	28.99	736.4	29.44	747.8	104.6	40.3	24	sw.	10.0	4.5			0			0	0	blue sky	
Bombay	29.58	751.2	29.62	752.2	80.5	26.9	91	sw.	18.0	8.0			10		wsw.	0.37	9.4	overcast	
Poona, Yarrowda	27.79	705.9	29.66	753.3	72.3	22.4	93	nw.	25.0	11.2			10			1.37	34.8	overcast	
Trichinopoly	29.44	747.8	29.72	754.8	90.7	32.6	54	wnw.	2.0	0.9			6	nne.	nne.	0	0	d. clouds	
Belgaum	27.20	690.8	29.75	755.7	69.8	21.0	87	nw.	10.0	4.5			8	s.	w.	0.04	1.0	d. clouds	
Lahore	28.63	727.2	29.32	744.8	107.3	41.8	20	se.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.50	723.8	29.35	745.4	99.9	37.7	40	calm	0	0			0			0	0		
Agra	28.92	734.6	29.45	748.0	106.6	41.4	21	nw.	6.0	2.7			1			0.35	9.0	d. clouds	
Nagpur	28.44	722.4	29.45	748.0	92.7	33.7	42	n.	5.0	2.2			9		n.	0	0	gloomy	
Jubbulpore	28.13	714.6	29.44	747.8	92.8	33.8	35	e.	6.0	2.7			7		n.	0	0	d. clouds	
Lucknow	28.99	736.4	29.35	745.4	105.4	40.8	25	wnw.	3.0	1.3			0			0	0	blue sky	
Allahabad	29.06	738.0	29.35	745.4	104.6	40.3	25	calm	0	0			3			0.03	0.8	d. clouds	
Patna	29.24	742.6	29.42	747.1	92.4	33.6	48	e.	4.9	2.2			8	e.	e.	0	0	d. clouds	
Hazaribagh	27.48	698.0	29.43	747.6	86.1	30.1	50	e.	6.9	3.1			10			0	0	overcast	
Cuttack	29.36	745.8	29.44	747.8	89.6	32.0	71	w.	7.0	3.1			10			0	0	d. clouds	
Calcutta, Alipore	29.44	747.7	29.46	748.2	87.5	30.8	78	se.	7.0	3.1			10			0	0	overcast	
Dhubri	29.38	746.2	29.50	749.2	82.0	27.8	89	ene.	6.2	2.8			9	wnw.		0.81	20.6	d. clouds	
Chittagong	29.43	747.5	29.52	749.8	77.7	25.4	92	sse.	9.8	4.4			10	s.	s.	0.13	3.3	drizzling	
Sibsagar	29.19	741.3	29.52	749.7	82.6	28.1	81	ne.	2.0	0.9			8	sw.	sw.	0.40	10.2	d. clouds	
Feypore	28.03	711.9	29.39	746.5	103.3	39.6	22	wnw.	16.7	7.5			3		wnw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.01	762.3	30.04	762.9	83.6	28.7	62	sw.	9.2	4.1			1			0	0	d. clouds	
Bellary	28.17	715.5			88.0	31.1	43	w.	20.0	8.9		4 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.53	750 0	29.92	760.0	64.8	18.2	75	s.	5.6	2.5			9			0.024	0.6		Prof. Giovanni Clodig.
Milan	29.41	747.1	29.91	759.8	73.6	23.1	58	se.					8	wsw.		0	0		Prof. G.V.Schiapparelli.
Padua	29.78	756.3	29.88	759.0	75.9	24.4	50	sw.	9.4	4.2			5	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.00	736.6	29.88	758.9	71.8	22.1	63	ne.	3.1	1.4			4	w.		0.136	3.2		Prof. F. F. Denza.
Genoa	29.78	756.3	29.97	761.1	70.0	21.1	67	se.	11.2	5.0			2	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.02	711.6	29.87	758.8	70.0	21.1	60	nw.			2		1	ssw.		0.406	10.3		Prof. D. C. Bruno.
Pesaro	29.84	757.9	29.89	759.1	81.0	27.2	47	sw.	8.7	3.9			4			0	0		Prof. Luigi Guidi.
Florence	29.69	754.1	29.94	760.4	77.4	25.2	47	sw.			2		4	sw.		0	0		Prof. Costantino Pittei.
Leghorn	29.82	757.5	29.91	759.6	73.4	23.0	70	sse.	3.1	1.4			4	w.		0	0		Prof. P. Monte.
Rome	29.81	757.2	29.98	761.5	76.5	24.7	47	ssw.	3.1	1.4			4			0	0		Prof. P. Tacchini.
Lecce	29.74	755.3	29.98	761.5	78.8	26.0	43	ne.	12.5	5.6			1			0	0		Prof. C. de Giorgi.
Cosenza	29.11	739.3	29.96	761.0	83.5	28.6	71	wsw.	3.1	1.4			4	sw.		0	0		Prof. D. Conti.
Cagliari	29.75	755.6	29.93	760.3	73.8	23.2	55	sw.			4		6			0	0		Prof. A. Pacinotti.
Palermo	29.81	757.2	30.06	763.5	73.9	23.3	56	e.	5.6	2.5			1			0	0		Prof. G. Caccialore.
Syracuse	29.92	760.0	29.97	761.1	85.3	29.6	47	ssw.	9.8	4.4			1	ssw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.53	750.1	30.04	763.1	72.7	22.6	69	s.	0.7	0.3			10	w.		0	0		Prof. F. Brioschi.
Stelvio	22.17	563.2			43.2	6.2	76	sw.			2		10			0.083	2.1	misty	Prof. P. F. Denza.
Valdobbia	22.04	559.7			45.0	7.2	74	n.			4		7			0.264	6.7	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.95	760.7	29.98	761.6	58.8	14.9	93	sw.			2		10 ck		sw.	0.079	2.0	cloudy	H. Hattori.
Awomori	29.93	760.2	29.96	761.0	55.8	13.2	89	nw.	6.4	2.9			10s;ks			0	0	overcast	K. Ogawa.
Hamamatsu	29.89	759.2	29.92	759.9	65.0	18.3	88	n.			4	0	1 s			0	0	clear	Y. Sekigawa.
Kanazawa	29.90	759.4	30.00	762.1	55.0	12.8	96	wsw.	1.4	0.6		1	2			0.066	0.1	fair	S. Endo.
Kagoshima	29.94	760.6	29.96	760.9	70.9	21.6	69	n.			2	0	0			0	0	clear	G. Miyanonaza.
Kioto	29.81	757.1	29.98	761.5	58.9	14.9	83	n.	1.6	0.7		0	0			0	0	clear	M. Tojima.
Kochi	29.93	760.3	29.95	760.8	69.7	20.9	86	w.	2.5	1.1		1 ck	2 s	w.	w.	0	0	clear	K. Kusunose.
Miasaka	29.94	760.6	29.97	761.3	68.9	20.5	87	se.			1	0	2 ck;s		w.	0	0	fair	K. Masusaki.
Miyako	29.88	758.9	29.99	761.7	53.4	11.9	97	s.	0.2	0.1			10 n			0.177	4.5	raining	N. Honno.
Nagasaki, I. M. Obs'y	29.73	755.1	29.93	760.2	71.3	21.8	71	n.	1.8	0.8		3 c	0	nw.		0	0	clear	S. Takehayashi.
Niigata	29.96	761.0	29.99	761.7	59.6	15.3	92	calm	0	0			10 ks		n.	0.210	5.3	cloudy	M. Morita.
Nobiru	29.98	761.4	29.99	761.8	55.2	12.9	96	calm	0	0			10 s;n			0.150	3.8	covered	H. Midzushima.
Numazu	29.92	759.9	29.96	760.9	61.9	16.6	92	calm			0		10ks;n			0.024	0.6	cloudy	R. Kaneda.
Osaka	29.94	760.4	29.95	760.8	64.3	17.9	68	ne.	16.0	7.1		0	0			0	0	clear	H. Omura.
Sakai	29.99	761.7	30.00	761.9	60.0	15.6	84	nne.			2	0	1 s		wsw.	0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	29.91	759.7	29.98	761.6	59.3	15.2	82	ene.	5.8	2.6		0	3ks;s		n.	0	0	fair	The Staff.
Wakayama	29.88	758.9	29.93	760.2	66.3	19.1	67	n.	3.9	1.7		0	0			0	0	clear	K. Sakai.
Shimonoseki	29.82	757.3	29.96	761.0	66.0	18.9	89	calm			0	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.88	758.9	30.07	763.8	75.2	24.0	61	ese.	11.0	4.9		0	1 k			0	0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.65	600.6	29.87	758.7	59.7	15.4	80	calm	0	0		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.28	616.7	29.94	760.5	58.3	14.6	79	nnw.	0.9	0.4		0	5 cs		s.	0	0	fair	Prof. M. Leal.
Mazatlan	29.65	753.2	29.91	759.7	72.5	22.5	90	e.	5.3	2.3		0	5 n		se.	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					77	25.0	76	s.	13.2	5.9		0	7 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.90	759.4	29.90	759.4	72.0	22.2		sse.			3					0.087	2.2		
Groningen	29.87	758.6	29.92	760 0	58.0	14.8		nne.			1					0	0		
Helder	29.92	760.0	29.92	760.0	58.8	14.9		e.			2					0	0		
Hellevoetsluis	29.90	759.4	29.90	759.4	68.2	20.1	61	e.			1					0	0		
Utrecht	29.87	758.7	29.92	759.9	67.5	19.7	60	e.			2		8			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.1			81.3	27.4	79	e.	0.5	0.2			3			0	0		Lt.J. J. Roptman.
NORWEGIAN.																			
Bergen	29.86	758.5	29.93	760.1	57.6	14.2	63	s.	13	6			0			0	0		
Brono	29.80	757.0	29.84	758.0	62.2	16.8	53	w.			4		0			0	0		
Christiania	29.73	755.1	29.87	758.7	69.4	20.8	25	nnw.	9	4			5			0	0		
Gjæsvær	29.93	760.1	29.95	760.7	79.5	26.4		calm			0		0						
Lodingen	29.82	757.4	29.87	758.6	66.9	19.4	57	calm			0		10			0	0		
PORTUGUESE.																			
Angra, Azores	29.93	760.1	30.08	764.1	64.4	18.0	92	se.	13.0	5.8			7			0	0		Dr. J. A. Sampaio.
Campo Major	29.14	740.1	30.13	765.3	66.6	19.2	54	wnw.	3.8	1.7			9			0.016	0.4		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.20	767.1	30.29	769.4	66.7	19.3	61	sw.	4.9	2.2			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	757.9	30.17	766.4	63.0	17.2	79	sw.	18.1	7.2			8			0	0		The Staff.
Ponta Delgada, Azores	30.09	764.2	30.16	766.0	68.7	20.4	76	sse.	8.1	3.6			3	w.		0	0		
Saint Paul de Loando	29.75	755.7	29.95	760.8	76.5	24.7	88	w.			2		0			0	0		
San Salvador	28.06	712.8	29.87	758.8	84.0	29.2	38	sw.			3		0			0	0		
Serra da Estrella	25.38	644.7	30.18	766.6	43.7	6.5	99	w.	4.9	2.2			10			0.843	21.4	rain & fog	
RUSSIAN.																			
Akmolinski	28.60	726.4	29.63	752.5	68.2	20.1	31	ne.	11	5		8 ck	0			0	0		Major K. Lasarew.
Archangel	29.85	758.2	29.87	758.7	76.0	24.8	29	n.	4	2		1 cs	0			0	0		Capt. Sseliwerstow
Ashurada	30.09	764.3	30.00	761.9	77.9	25.5	66	nnw.	9	4		0	1 k			0	0		
Astrakhan	30.09	764.2	30.00	762.1	82.0	27.8	30	sse.	2	1		cs	3 s			0	0		Capt. Wieganow.
Baku	30.07	763.7	30.02	762.5	73.6	23.1	68	sse.	9	4		0	0			0	0		
Barnaul	29.19	741.5	29.67	753.6	65.8	18.8	45	n.	18	8			5			0	0		Meteorological Obs'y
Bielosersk	29.47	748.5	29.93	760.1	61.5	16.4	82	nw.	2	1		0	8ks			0.008	0.2		
Dorpat	29.78	756.5	30.02	762.4	72.3	22.4	48	ene.	7	3		0	0 k			0	0		Observatory.
Ekaterinburg	28.89	734.2	29.82	757.4	76.5	24.7	31	wnw.	9	4		0	8 kn			0	0	hazy	Meteorological Obs'y
Elissawetgrad	29.50	749.4	29.93	760.1	83.8	28.8	39	sse.	11	5		0	7 ks			0	0		
Irkutsk	27.99	710.9	29.58	751.3	57.2	14.0	55	calm			0		8			0.039	1.0		
Kasalinsk	29.18	741.2	29.30	745.7	75.9	24.4	23	n.	18	8		0	0			0.122	3.1	thnd'r str'm	Observatory.
Kasan	29.61	752.1	29.87	758.0	72.9	22.7	58	wsw.	7	3			10 n			0	0		
Kem	30.00	762.0	30.05	763.3	60.8	16.0	50	ne.	9	4		5 cs	0			0	0		Lagorio & Sastyres.
Kertch	29.81	757.2	29.84	757.8	79.7	26.5	54	ne.	11	5		0	0			0	0		Obse. vatory.
Kieff	29.27	743.4	29.87	758.0	80.6	27.0	39	se.	7	3		6c;ck	3 k			0.181	4.6		
Koslov	29.42	747.3	29.93	760.3	78.3	25.7	91	ssw.	9	4		0	0 k			0	0		E. Quaas.
Libau	29.90	759.5	29.93	760.1	77.0	25.0	32	e.	11	5			1			0	0		Meteorological Obs'y.
Lugan	29.70	754.4	29.87	758.8	81.7	27.6	42	ne.	9	4			8			0	0		Meteorological Obs'y
Moscow	29.48	748.7	29.93	760.1	72.5	22.5	41	nnw.	9	4		0	4 k			imap.	imap.		Capt. Kurdakow.
Nikolaiev	29.87	758.6	29.94	760.5	79.7	26.5	64	sw.	4	2		cs	0 n			0	0		Iwanow.
Nikolaievsk-on-the-Amoor	29.93	760.2	30.02	762.4	46.2	7.9	83	se.	16	7			10			0	0		Physical Observatory.
Pekin, China	29.63	752.7	29.78	756.3	72.1	22.3	85	se.	3.4	1.5			9 n			0.213	5.4		
Petro-Alexandrovsk	29.48	748.7	29.81	757.2	74.8	23.8	40	nw.	3.4	1.5			9 k			0	0		
Petrozavodsk	29.73	755.1	29.92	759.9	69.4	20.8	61	nne.	9	4		3 ck	0			0	0		Dr. Bergmann.
Pinsk	29.36	745.7	29.83	757.0	81.3	27.4	50	se.	9	4		0	0			0	0		
Poti	29.81	757.2	29.84	758.0	78.4	25.8	84	nnw.	4	2		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mts. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
St. Petersburg	29.97	761.2	29.99	761.8	63.5	17.5	74	nw.	16	7			9 n			0	0		Central Physical Obs'y.
Samarkand	27.48	698 1	29.89	759.3	64.6	18.1	80	s.	7.8	3.5		7 ck	0			0.098	2.5		
Semipalatinsk	29.05	737.9	29.68	753.8	70.0	21.1	28	n.	4	2			4			0.146	3.7		Major Lasarew
Sevastopol	29.61	752.1	29.83	757.6	76.5	24.7	56	w.	7	3		0	7 n			0	0		
Staroi Bykhov	29.54	750.4	29.98	761 4	81.8	27.7	38	e.	7	3		10 ck	0			0	0	light clouds	
Tashkend	28.19	716 0	29.82	757.5	61.9	16.6	96	calm	0	0			10 n			0	0	heavy clouds	Terch, A. M.
Tiflis	28.54	725.0	29.88	759.0	83.3	28.5	34	se.	13	6		0	3 k			0	0		Physical Observatory.
Vernoe	27.13	689.1	29.50	749.4	71.6	22.0	64	w.	7	3			9 n			0.654	16.6		
Vlatka	29.24	742.6	29.85	758.2	63.5	17.5	83	calm	0	0			10			0.272	6.9		
Warsaw	29.34	745.3	29.74	755.5	75.4	24.1	60	s.	9	4		c	9 ks			0.051	1.3	light rain	Astronomical Obs'y.
Yeniseisk	29.49	749.0	29.78	756.3	44.2	6.8	68	wnw.	4	2			10			blank	blank		M. O. Marks.
Scottish.																			
Monach Lt			29.94	760.5	58	14.4	94	n.			2	0	0			0	0	clear	J. Youngclause.
North Unst			29.78	756.4				w.			3		fg.						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.93	760 2	30.03	762.8	71.6	22.0	67	se.	1.1	0.5		1 c	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.01	762.2	30.07	763.7	74.1	23.4	52	nw.	2.9	1.3		2	3	nw.		0.008	0.2	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.14	689.3	30.07	763.8	60.8	16.0	54	sw.	9.4	4.2		1	7	ne.		0.039	1.0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.87	708.0	30.03	762.8	67.8	19.9	48	sw.	9.6	4.3		0	7			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.89	759.1	30.04	763.0	82.4	28.0	38	s.	3.8	1.7		0	2			0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.23	742.5	29.99	761 8	59.4	15.2	67	se.	10.1	4.5		6 kn	4 k	se.	w.	0.134	3.4	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.16	740.7	30.05	763 2	62.1	16.7	75	sw.	5.6	2.5			10			0.760	19.3	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.92	759.9	29.98	761.6	79.2	26.2	85	se.	4.5	2.0		c	1 k		sse.	1.71	43.4	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.73	755.1	29.79	756.6	79.8	26.6	81	ssw.	13.2	5.9		0	8 ks		sw.	0.059	1.5	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.2	30.15	765.7	69.4	20.8	62	nw.	16.2	7.2		0	2		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.5	30.07	763.8	81.0	27.2	91	se.	5.6	2.5		5 cs	4 k	se.	se.	0.126	3.2	d. clouds	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.98	761.6	30.02	762.6	69.8	21.0	55	s.			2		6			0.091	2.3		
Umea	29.97	761.1	30.02	762.4	66.9	19.4	49	sw.			4		1			0	0		
Hernosand	30.02	762.5	30.07	763.8	65.1	18.4	59	s.			2		0			0.028	0.7		
Stockholm	29.80	757.0	29.98	761.5	69.6	20.9	52	sse.			4		7			0	0		
Wisby	29.84	757.8	29.89	759.3	74.5	23.0	41	sse.			6		3			0	0		
Sub-series.																			
Upsala	29.84	758.0	29.93	760.2	75.6	24.2	42	sse.	12.1	5.4			2	sw.		0	0		S. G. Fineman.
Swiss.																			
Geneva	28.54	724.9	29.94	760.4	65.1	18.4	70	ssw.			2		9			0.248	6.3	raining	The Observatory.
Turkish.																			
Constantinople			29.86	758.4	77.7	25.4	57	e.	10	4.5			9		se.	0	0		The Observatory.
Valona			30.08	764.1	77.4	25.2		w.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.82	757.5	81.1	27.3	62	nw.			2		1 k		w.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.71	678.4			63	17.2	90						10 n		nw.			rainy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.84	757.9	29.92	760.0	68.4	20.2	65	s.	1	0.4		10 cs	0	w.		0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.13	739.9	29.78	756.4	49	9.4	86	e.	6	2.7			10 n			0.37	9.4	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.92	633.0	29.67	753.6	54	12.2	44	sw.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.05	687.1	29.84	757.9	47	8.3	77	nw.	5	2.2			10 s		nw.	0.11	2.8	cloudy	B. O. Lenoir.
Atlanta, Georgia	28 79	731.3	29.94	760.5	73.0	22.8	90	sw.	6	2.7		5 k	0			0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	29.92	760.0	29.93	760.2	63	17.2	100	s.	3	1.3			fg.			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	29.78	756.4	29.98	761.5	74.0	23.3	94	se.	1	0.4			10 s		se.	1.04	26.4	cloudy	John Healy.
Baltimore, Maryland	29.89	759.2	29.94	760.5	70	21.1	90	s.	4	1.8			10s;fg			0	0	cloudy	Geo. W Felger.
Barnegat City, New Jersey	29.92	760.0	29.94	760.5	63.5	17.5	97	sw	7	3.1			fg			0	0	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.94	760.5	29.96	761.0	38.5	3.6	91	e.	10	4.5			10 n		e.	0.02	0.5	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.35	720.1	29.89	759.2	43.0	6.1	89	calm	0	0		1 c	1 s	nw.	nw.	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.10	688.3	29.87	758.7	46	7.8	71	sw.	6	2.7		0	5 s			0.15	3.8	fair	S. Wheaton.
Billings, Montana	26.65	676.9	29.79	756.7	49	9.4	100	sw.	6	2.7			10 n			0.16	4.1	light rain	T. Gibson.
Bismarck, Dakota	28.09	713.5	29.85	758.2	46	7.8	76	ne.	5	2.2		8 k	0	nw.		0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.92	760.0	29.95	760 7	65	18.3	90	sw.	8	3.6		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.14	689.3	29.92	760.0	52	11.1	74	n.	3	1.3		4 k	0			0	0	fair	J. Kenealy.
Boston, Massachusetts	29.76	755.9	29.91	759.7	71.0	21.7	84	sw.	2	0.9		2 c	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.65	753.1	29.69	754.1	81.0	27.2	85	s.	8	3.6		2 cs	3 s		s.	0	0	fair	E. C. Imlay.
Buffalo, New York	29.10	739.1	29.84	757.9	57	13.9	75	ne.	5	2.2			10s;sk		ne.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota	27.86	707.6	29.82	757.4	49	9.4	86	e.	7	3.1		4 c	5 s	nw.	ne.	0	0	cloudy	A. Schneider.
Burlington, Vermont	29.62	752.3	29.91	759.7	65.0	18.3	68	e.	1	0.4		2 cs	4 s	w.	w.	0	0	fair	D. N. Farnell.
Cairo, Illinois	29.40	746.7	29.79	756.7	69.7	20.9	91	s.	6	2.7			10 s		s.	0.39	9.9	cloudy	W. H. Ray.
Cape Henry, Virginia	29 92	760.0	29.94	760.5	73.0	22.8	90	sw.	7	3.1			10 s		w.	0.17	4.3	cloudy	A. K. Alderson.
Cape May, New Jersey	29.90	759.4	29.93	760 2	66.0	18.9	97	se.	8	3.6			10 s		se.	0	0	foggy	W. E. Smith.
Cape Mendocino, California	29.11	739.4	29.79	756.7	75	23.9	48	n.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.95	760.7	29.97	761.2	81	27.2	82	s.	12	5.4		2 cs	3 k	w.	s.	0.07	1.8	fair	G. W. Davis.
Charleston, S. Carolina	29.90	759.4	29.96	761.0	79.0	20.1	88	sw.	7	3.1		0	8 ks		sw.	0.06	1.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.12	739.6	29.95	760.7	74.0	23.3	82	sw.	4	1.8			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.10	739.1	29.91	759.7	72.0	22.2	90	n.	2	0.9		2 k	0			inap.	inap.	clear	B. L. Goulding.
Cheyenne, Wyoming	23.97	608.8	29.71	754.6	36.3	2.4	82	w.	6	2.7		5 c	0	nw.		0.60	15.2	fair	E. McGovern.
Chicago, Illinois	28.93	734.8	29.62	752.3	55.9	13.3	88	nw.	5	2.2			10 n			0.65	16.5	light rain	John Laurens.
Chincoteague, Virginia	29.90	759.4	29.92	760.0	68	20.0	100	s.	3	1.3			fg.			inap.	inap.	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.11	739.4	29.76	755 9	75.0	23.9	71	s.	12	5.4		3 cs	0	w.		0	0	clear	L. Dunne.
Cleveland, Ohio	29.00	736.0	29.72	754.9	63.6	17.0	59	se.	12	5.4			10 s		sw.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	27.87	707.9	29.02	752.3	73	22.8	84	se.	1	0.4		5 k	0	se.		0.06	1.5	fair	T. J. Kenan.
Columbus, Ohio	28.90	734.0	29.74	755.4	69	20.6	70	se.	8	3.6		5 ck	3 s	sw.	s.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.72	704.1	29.59	751.6	74.0	23.3	82	s.	22	9.8		0	5 s		s.	0	0	fair	J. McGlone.
Davenport, Iowa	29.07	738.4	29.71	754.6	59	15.0	87	ne.	8	3.6			10 s		ne.	0.28	7.1	cloudy	R. R. Martin.
Davis, Fort, Texas	25.00	635.0	29.62	752.3	58	14.4	47	n.	8	3.6		0	1 ks		n.	0	0	clear	J. Williams.
Dayton, Washington T'y	28.24	717.3	29.98	761.5	59	15.0	84	sw.	1	0.4		9 k	0			0	0	cloudy	D. Moore.
Deadwood, Dakota	25.22	640.6	29.66	753.4	44	6.7	71	calm	0	0		0	0			0.43	10.9	clear	F. Willson.
Delaware Breakwater, Del.	29.92	760.0	29.94	760.5	64	17.8	100	se.	9	4.0		8 ck	fg.	se.		0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.67	626.6	29.71	754.6	46.0	7.8	76	s.	5	2.2		1 c	0	nw.		0.15	3.8	clear	F. M. Neal.
Des Moines, Iowa	28.91	734.3	29.79	756.7	57	13.9	93	n.	3	1.3			10 s		n.	0.85	21.6	cloudy	F. W. Conrad.
Detroit, Michigan	28.98	736.1	29.67	753.6	63.0	17.2	100	se.	4	1.8			10 n			0.08	2.0	light rain	E. R. Brace.
Dodge City, Kansas	27.28	692.9	29.79	756 7	55	12.8	86	e.	12	5.4			10 s		e.	0.13	3.3	cloudy	D. J. Carr.
Dubuque, Iowa	29.03	737.3	29.72	754.9	57.5	14.2	86	n.	5	2.2			10 s		n.	0.99	25.1	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.18	741.2	29.91	759.7	45	7.2	83	ne.	19	8.5			10 s		ne.	0.57	14.5	cloudy	N. B. Conger.
Eagle Pass, Texas	28.88	733.5	29.67	753.6	80.1	26.7	64	se.	4	1.8		1 ck	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.28	642.1	29.87	758 7	55	12.8	67	n.	10	4.5			10 s		w.	0	0	cloudy	H. R. Boynton.
Eastport, Maine	29.88	758.9	29.95	760.7	62.0	16.7	72	ne.	3	1.3		0	0			0.04	1.0	clear	D. O. Murphy.
Elliott, Fort, Texas	27.08	687.8	29.75	755.6	55	12.8	86	n.	16	7.2			10 n		n.	0.34	8.0	light rain	W. J. Cundall.
El Paso, Texas	26.10	662.9	29.69	754.1	68.0	20.0	24	ne.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.07	738.4	29.79	756.7	64	17.8	58	se.	15	6.7			10 s		sw.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.12	739.6	29.78	756.4	47.0	8.3	93	n.	10	4.5			10 s		n.	0.11	2.8	cloudy	George Heathcote.
Galveston, Texas	29.72	754 9	29.76	755.9	81	27.2	82	s.	18	8.0		7 ck	0	s.		0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	28.95	735.3	29.60	751 8	61.0	16.1	87	ne.	1	0.4			10n;fg			0.93	23.6	light rain	J. E. Mueller.
Grant, Fort, Arizona	25.11	637.8	29.05	753 1	63.4	17.4	47	nw.	7	3.1		0	1 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.97	761.2	29.99	761.7	73	22.8	97	sw.	8	3.6			10 s		sw.	0.03	0.8	cloudy	R. M. Crawford.
Helena, Montana	25.73	653.5	29.85	758.2	50	10.0	74	sw.	5	2.2			10 s			0.22	5.6	cloudy	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.54	724.9	29.88	758.9	48.3	9.1	73	n.	4	1.8	.....	2 k	0	n.	.....	inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	28.91	734.3	29.69	754.1	71.0	21.7	76	sw.	7	3.1	.....	0	9 k	.....	sw.	0.06	1.5	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.71	754.6	29.74	755.4	79.1	26.2	89	s.	12	5.4	.....	3 k	0	s.	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	29.94	760.5	29.98	761.5	80.5	26.9	82	s.	8	3.6	.....	2 cs	2 k	.....	s.	0.82	20.8	fair	J. W. Smith.
Keogh, Fort, Montana	27.32	693.9	29.75	755.6	51	10.6	80	w.	8	3.6	.....	.....	10 s	.....	.....	0.39	9.9	cloudy	W. B. Lamar.
Keokuk, Iowa	29.08	738.6	29.72	754.9	61.0	16.1	87	nw.	4	1.8	.....	.....	10 s	.....	.....	0.91	23.1	cloudy	F. Z. Gosewisch.
Key West, Florida	29.95	760.7	29.97	761.2	82.5	28.1	82	se.	7	3.1	.....	3 cs	3 k	w.	se.	0.14	3.6	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.95	760.7	29.97	761.2	74	23.3	97	sw.	7	3.1	.....	0	9 ks	.....	sw.	0.17	4.3	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	28.90	734.0	29.91	759.7	71	21.7	89	se.	2	0.9	.....	0	3 k	.....	sw.	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	28.99	736.3	29.75	755.6	57	13.9	80	n.	12	5.4	.....	.....	10 s	.....	n.	0.20	5.1	cloudy	S. C. Emery.
Leavenworth, Kansas	28.89	733.8	29.76	755.9	59	15.0	87	n.	7	3.1	.....	.....	10 ks	.....	ne.	0.75	19.0	cloudy	A. W. Browne.
Lewiston, Idaho	29.13	739.9	29.95	760.7	58.0	14.4	64	e	4	1.8	.....	4 k	0	w.	.....	0	0	fair	H. S. Blandford.
Little Rock, Arkansas	29.41	747.0	29.72	754.9	73	22.8	90	s.	6	2.7	.....	2 c	3 s	sw.	.....	0.32	8.1	fair	W. U. Simons.
Los Angeles, California	29.48	748.8	29.87	758.7	62	16.7	87	ne.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.22	742.2	29.77	756.1	72.5	22.5	79	sw.	12	5.4	.....	0	9 ks	.....	sw.	inap.	inap.	cloudy	L. M Dey.
Lynchburg, Virginia	29.23	742.4	29.90	759.4	70.8	21.6	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.13	739.9	29.77	756.1	50.5	10.3	96	e	8	3.6	.....	.....	10 n	.....	.....	0.44	11.2	heavy rain	D. B. Notson.
Macon, Fort, North Carolina	29.97	761.2	29.98	761.5	74.0	23.3	98	sw.	6	2.7	.....	0	5 s	.....	sw.	0.56	14.2	fair	William Daly.
Maginnis, Fort, Montana	25.46	646.7	29.79	756.7	45	7.2	56	nw.	17	7.6	.....	10 k	0	nw.	.....	0.07	1.8	cloudy	F. Burke.
Marquette, Michigan	29.12	739.6	29.84	757.9	43	6.1	83	nw.	10	4.5	.....	.....	10 s	.....	nw.	0.15	3.8	cloudy	J. Gilligan.
Memphis, Tennessee	29.44	747.8	29.77	756.1	78	25.6	82	s.	6	2.7	.....	6 cs	1 s	.....	s.	0.33	8.4	fair	D. T. Flannery.
Milwaukee, Wisconsin	28.91	734.3	29.65	753.1	52	11.1	93	n.	26	11.6	.....	.....	10 n	.....	.....	0.87	22.1	light rain	W. Line.
Missoula, Fort, Montana	26.71	678.4	29.97	761.2	52	11.1	69	w.	1	0.4	.....	0	7 ks	.....	w.	0.06	1.5	fair	J. H. Young.
Mobile, Alabama	29.85	758.2	29.89	759.2	78.8	26.0	89	s.	4	1.8	.....	1 c	2 ks	.....	sw.	0	0	clear	C. A. Read.
Montgomery, Alabama	29.65	753.1	29.88	758.9	74	23.3	84	se.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.90	734.0	29.87	758.7	46	7.8	83	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	H. White.
Mt. Washington, N. H	23.88	606.5	30.00	762.0	47.0	8.3	89	sw.	20	8.9	.....	0	2 k	.....	sw.	0.10	2.5	clear	S. W. Beall.
Nashville, Tennessee	29.25	742.9	29.81	757.2	73.5	23.1	82	sw.	3	1.3	.....	4 cs	0	w.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.81	757.2	29.92	760.0	69	20.6	73	calm	0	0	.....	3 c	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.92	760.0	29.97	761.2	69	20.6	76	sw.	1	0.4	.....	2 c	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.81	757.2	29.86	758.4	78.5	25.8	90	s.	3	1.3	.....	0	8 s	.....	s	2.29	58.2	cloudy	M. Herman.
New York, New York	29.77	756.1	29.94	760.5	68	20.0	84	s.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	G. E. Franklin.
Norfolk, Virginia	29.90	759.4	29.93	760.2	73.8	23.2	90	sw.	5	2.2	.....	.....	10s;fg	.....	sw.	0.04	1.0	cloudy	Wm. Davis.
North Platte, Nebraska	27.01	686.0	29.81	757.2	51.6	10.9	82	ne.	4	1.8	.....	0	6 s	.....	.....	0.02	0.5	fair	E. F. Brady.
Olympia, Washington T'y	30.15	765.8	30.19	766.8	49.0	9.4	93	sw.	1	0.4	.....	.....	10 n	.....	w.	inap.	inap.	light rain	J. Dascomb.
Omaha, Nebraska	28.68	728.5	29.82	757.4	54.5	12.5	86	n.	5	2.2	.....	.....	10 s	.....	n.	0.52	13.2	cloudy	A. Pollak.
Ooglaamie, Alaska	30.00	762.0	30.02	762.5	25.5	— 3.6	100	e	18	8.0	.....	.....	10 s	.....	e.	0.03	0.8	cloudy	P. H. Ray.
Oswego, New York	29.56	750.8	29.88	758.9	63.0	17.2	78	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.21	741.9	29.75	755.6	75.0	23.9	88	s.	10	4.5	.....	3 ck	0	s.	.....	0	0	clear	J. W. Byram.
Pensacola, Florida	29.87	758.7	29.90	759.4	79.3	26.3	92	s.	14	6.3	.....	0	3 s	.....	s.	0	0	clear	M. McGauran.
Philadelphia, Pa	29.85	758.2	29.95	760.7	70.5	21.4	100	s.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.74	450.6	29.56	750.8	16	— 8.9	87	ne.	12	5.4	.....	0	0	.....	.....	0.51	13.0	clear	H. Hall.
Pioche, Nevada	24.02	610.1	29.82	757.4	49.0	9.4	32	nw.	2	0.9	.....	3 cs	0	.....	.....	0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.02	737.1	29.81	757.2	65.5	18.6	73	calm	0	0	.....	3 c	0	sw.	.....	0	0	clear	W. A. Reid.
Poplar River, Montana	27.71	703.8	29.81	757.2	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.02	737.1	29.69	754.1	56.0	13.3	93	se.	14	6.3	.....	.....	10 n	.....	.....	0.10	2.5	light rain	M. H. Perry
Portland, Maine	29.86	758.4	29.91	759.7	67.0	19.4	68	n.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.01	762.2	30.08	764.0	63.2	17.3	84	nw.	6	2.7	.....	.....	10 s	.....	nw.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C	.....	.....	.....	.....	76	24.4	82	sw.	10	4.5	.....	0	6 ks	.....	s.	0.07	1.8	fair	F. P. Chaffee.
Prescott, Arizona	24.71	627.6	29.73	755.1	51.8	11.0	43	s.	2	0.9	.....	5 c	0	.....	.....	0	0	fair	Jas Cassidy.
Provincetown, Mass	29.90	759.4	29.93	760.2	70.5	21.4	71	sw.	3	1.3	.....	0	1s;hz	.....	.....	0	0	clear	C. N. Kitchel.
Punta Rassa, Florida	29.98	761.5	29.99	761.7	79.5	26.4	80	s.	14	6.3	.....	4 ck	3 ks	.....	s.	0	0	fair	W. J. Evans.
Red Bluff, California	29.43	747.5	29.78	756.4	82	27.8	26	n.	20	8.9	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.22	742.2	29.87	758.7	59	15.0	81	sw.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.49	749.0	30.04	763.0	62.1	16.7	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.03	752.0	29.70	754.4	75.5	24.2	52	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.10	740.7	29.74	755.4	65.6	18.7	97	nw.	6	2.7	.....	.....	10 s	.....	sw.	0.12	3.0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.14	765.5	30.18	766.6	39	3.9	89	sw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.90	735.0	29.80	756.9	52.5	11.4	90	n.	7	3.1	.....	.....	10 s	.....	n.	0.13	3.3	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.00	738.1	29.91	759.7	41	5.0	92	se.	2	0.9	.....	0	0	.....	.....	0.02	0.5	clear	C. B. Dilley
Salt Lake City, Utah	25.61	650.5	29.83	757.7	58	14.4	36	calm	0	0	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. Craig.
San Antonio, Texas	29.00	736.6	29.08	753.9	75	23.9	82	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Davis.
San Diego, California	29.75	755.6	29.82	757.4	62.3	10.8	85	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	29.92	760.0	29.95	760.7	66.0	18.9	90	sw.	5	2.2	.....	.....	fg.	.....	.....	0	0	dense fog	B. A. Blundon.
Sanford, Florida	29.95	760.7	.....	.....	81.5	27.5	82	se.	2	0.9	.....	2 k	0	s.	.....	0.17	4.3	clear	J. B. Marbury.
San Francisco, California	29.71	754.0	29.78	756.4	56	13.3	86	w.	5	2.2	.....	0	fg.	.....	w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.15	588.0	29.66	753.4	40	4.4	81	ne.	9	4.0	.....	2 c	0	n	.....	inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	29.89	759.2	29.98	761.5	77	25.0	85	w.	7	3.1	.....	2 ck	6 ks	w.	sw.	1.72	43.7	cloudy	H. W. Ford.
Shaw, Fort, Montana	20.30	668.0	29.87	758.7	52	11.1	80	sw.	10	4.5	.....	9 k	0	n.	.....	0.05	1.3	cloudy	A. L. Mathews
Shreveport, Louisiana	29.51	749.5	29.74	755.4	76.3	24.6	84	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.40	721.3	29.65	753.1	63	17.2	93	w.	6	2.7	.....	0	9 s	.....	sw.	1.72	43.7	cloudy	W. M. Mattingly.
Sitka, Alaska	30.01	762.2	30.07	763.8	47.5	8.6	82	sw.	6	2.7	.....	.....	10 n	.....	sw.	0.04	1.0	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.37	746.0	29.83	757.7	66.0	18.9	93	s.	12	5.4	.....	.....	10 n	.....	.....	0.96	24.4	heavy rain	J. B. Campbell.
Smithville North Carolina	29.92	760.0	29.96	761.0	77	25.0	90	sw.	10	4.5	.....	hz.	7 ks	.....	w.	0.03	0.8	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	30.00	762.0	51	10.6	86	n.	1	0.4	.....	0	3 s	.....	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.05	737.9	29.72	754.9	64	17.8	92	nw.	6	2.7	.....	.....	10 s	.....	w.	2.74	69.6	cloudy	T. B. Jennings.
Starkville, Miss	29.38	746.2	29.85	758.2	77	25.0	85	s.	7	3.1	.....	.....	10 s	.....	s.	0	0	cloudy	C. Dill.
Stockton, Fort, Texas	20.79	686.5	29.71	754.6	66	18.9	84	nw.	12	5.4	.....	.....	10 s	.....	nw.	0	0	cloudy	A. J. Warren.
Thomas, Camp, Arizona	27.04	686.8	29.66	753.4	70	21.1	31	n	.....	.....	2	8 cs	0	.....	.....	0	0	cloudy	J. L. Whiteside.
Toledo, Ohio	28.98	736.1	29.66	753.4	65	18.3	84	se.	4	1.8	.....	.....	10 s	.....	sw.	0.15	3.8	threatening	A. Buell.
Tucson, Arizona	27.35	694.7	29.65	753.1	68	20.0	44	s.	2	0.9	.....	3 cs	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	30.20	767.1	30.22	767.6	40	4.4	82	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	65	18.3	47	nw.	.....	.....	1	3 c	0	n.	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.56	750.8	29.82	757.4	70.0	24.4	87	s.	7	3.1	.....	0	1 s	.....	s.	0	0	clear	James Kenealy.
Visalia, California	29.34	745.2	29.71	754.6	70.4	21.3	67	sw.	2	0.9	.....	5 cs	0	.....	.....	0	0	fair	O. D. Stewart.
Washakie, Fort, Wyoming	24.37	619.0	29.75	755.6	45.3	7.4	83	calm	0	0	.....	.....	10 k	.....	.....	0	0	cloudy	T. M. Ambler.
Washington, D. C	29.81	757.2	29.92	760.0	69.0	20.9	95	se.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	B. M. Pursell.
West Las Animas, Colorado	25.99	660.1	29.76	755.9	49	9.4	93	nw.	4	1.8	.....	.....	10 n	.....	.....	1.06	26.9	light rain	F. H. Brandenbourg.
Williamsport, Pa	29.32	744.7	29.92	760.0	65.5	18.6	70	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	B. F. Hough.
Wilmington, N. Carolina	29.91	759.7	29.96	761.0	77.0	25.0	90	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.22	5.6	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.64	651.2	29.90	759.4	48	8.9	52	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.60	726.4	29.88	758.9	52	11.1	72	nw.	9	4.0	.....	.....	10 ks	.....	.....	0	0	cloudy	J. H. Attield.
Yuma, Arizona	29.46	748.3	29.60	751.8	72.4	22.4	72	nw.	1	0.4	.....	2 c	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joaquin Gomez.
Kingston, Jamaica, W. I	.....	.....	30.03	762.7	82	27.8	70	n.	1	0.4	.....	1 c	1 s	.....	.....	0	0	fine	Robert Johnston.
Paramaribo, S. A	30.07	763.8	30.07	763.8	77	25.0	91	se.	.....	.....	2	5 k	8 ks	e.	e.	1.750	44.4	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.44	747.8	30.00	762.0	76	24.4	94	calm	.....	.....	0	.....	10 ks	.....	calm	1.18	30.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	74	23.3	91	ese.	.....	.....	1	10 cs	.....	.....	.....	1.00	25.4	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas W. I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallon.
York Factory, B. A	29.72	754.9	29.78	756.4	46.0	7.8	100	s.	19	8.5	.....	.....	10 n	.....	s.	0.50	12.7	raining	Lefroy & Co.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 44° 52′ E. 13° 49′	29.94	760.5	75	23.9	68	sse.			1		2	sse.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.18	766.6	75	23.9	77	sse.			2		4	sse.						d. clouds.
H. M. S. Flamingo, N. 44° 05′, W. 54° 29′	29.82	757.4	50	10.0	93	nw.			3							3	con.	foggy.
H. M. S. Gannet, N. 18° 55′, W. 23° 55′	30.09	764.3	73	22.8	72	nne.			5		4					4	ne.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.94	760.5	78	25.6	82	nnw.			3–5		0							squally.
H. M. S. Minotaur, Vigo Bay, Spain	30.13	765.3	62.5	16.9	80	sw.			3		6	wsw.						d. clouds.
H. M. S. Opal, N. 14° 47′, W. 23° 29′	30.03	762.7	76	24.4	77	n.			4		3	nne.				4	nne.	d. clouds.
H. M. S. Satellite, N. 38° 13′, W. 11° 15′	30.20	767.1	66	18.9	74	wnw.			3		5	wnw.				4	wsw.	d. clouds.
H. M. S. Tyne, N. 8° 19′, W. 36° 42′	30.02	762.5	80	26.7	87	ene.			6		4	ene.				4	ene.	d. clouds.
H. M. S. Thetis, N. 18° 50′, W. 24° 14′	30.14	765.5	72	22.2	85	nne.			4		3	nne.				3	nne.	d. clouds.
H. M. S. Tenedos, St. Johns, N.F	29.74	755.4	51	10.6	93	sw.			1		8	w.						overcast.
U. S. Navy Yard, Portsmouth, N.H.*	29.89	759.2	70	21.1	75	calm	0	0			0			0	0			hazy.
U. S. S. Lancaster, Kronstadt, Russia	30.04	763.0	58	14.4	100	wnw.			4		8	nnw.				sm'h		fair.
U. S. S. Nipsic, New York, N. Y*	29.89	759.2	71	21.7	100	wsw.			1		2							fair.
U. S. S. Portsmouth, Newport, R.I	29.97	761.2	69	20.6	90	sw.			2		8							cloudy.
U. S. S. Powhatan, Port Royal, S.C	29.94	760.5	78	25.6	91	sw.			1		10		sw.					cloudy.
U. S. S. Quinnebaug, N. 3° 08′, E. 1° 57′	29.99	761.7	81	27.2	78	s.			3		5		s.			sm'h	ssw.	fair.
U. S. S. Saratoga, Poughkeepsie, N.Y	29.97	761.2	67	19.4	74	ne.			1–2		2		ne.	0	0	sm'h		fair.
U. S. S. Vandalia, N. 36° 18′, W. 71° 42′	30.14	765.5	72	22.2	100	sw.			4		10		sw.			mod.		raining.
S. S. Inchkeith, N. 44° 45′, W. 25° 19′	30.23	767.8	59.6	15.3	84	e.			3		8							gloomy.
H. P. M. S. Rio Lima, Porta Praya, Cape Verd Islands			77.0	25.0	84	ne.			4		0					3	se.	blue sky.
S. S. Illinois, Philadelphia, Pa	29.91	759.7	72	22.2		ese.			4									foggy.
S. S. Lord Gough, N. 44° 20′, W. 37° 00′	29.84	757.9	64	17.8		ese.			3		10			0	0	sm'h		overcast.
S. S. Ohio, N. 49° 37′, W. 16° 42′†	30.08	764.0	58	14.4		ne.			4		2		n.	8 h'r	8 h'r	sm'h	ne.	clear.
S. S. Pennsylvania, N. 39° 12′, W. 62° 59′†	30.04	763.0	71	21.7		wsw.			5		10			9 h'r	9 h'r	mod	sw.	overcast.
S. S. British Princess, Liverpool, Eng†	29.58	751.3				nw.			2		2		w	0	0			fine.
S. S. Circassian, N. 55° 26′, W. 11° 31′	29.95	760.7	54	12.2	93	nw.			5		8					4	wnw.	showery.
S. S. Grecian, N. 47° 00′, W. 51° 00′	29.69	754.1	40	4.4	100	n.			1		10			5 h'r	5 h'r	sm'h		dense fog.
S. S. Nova Scotian, N. 52° 23′, W. 28° 45′	30.29	769.4	53	11.7		s.			3		5?		sse.			mod.	wsw.	cloudy ?
S. S. Scandinavian, Galway Bay, Ireland	29.98	761.5				nne.			4							sm'h		blue sky.
S. S. Prussian, Glasgow, Scotland	29.84	757.9	61	16.1		ssw.			3		6		sw.	0	0			
S. S. Sardinian, N. 49° 10′, W. 66° 40′	29.84	757.9	48	8.9		calm			0		0			2 h'r	2 h'r			clear.
S. S. Jason, N. 44° 43′, W. 39° 31′			54.5	12.5		se.			4–6		7 k					6	se.	gloomy.
S. S. Alvo, Port au Prince, Hayti, W. I*	30.00	762.0	79	26.1		var.			0–1		8		calm	2 h'r	2 h'r			
S. S. Assyria, N. 49° 19′, W. 15° 52′	30.07	763.8	61	16.1		ne.			4		6		ne.	0	0	sm'h		fine.
S. S. Furnesia, Liverpool, Engf	29.80	756.9	65	18.3	100	nnw.			2		6		nw.	0	0			fair.
S. S. Elysia, N. 50° 50′, W. 29° 10′	30.20	767.1	51	10.6		e.			2		8		e.	0	0	sli't	n.	cloudy.
S. S. Carroll, Halifax, N. S *†	30.03	762.7	64	17.8	83	ssw.			2		0			0	0			clear.
S. S. Jerome, N. 36° 10′, W. 70° 28′			73	22.8	90	sw.			6		10		nw.	0	0	mod.	nw.	overcast.
S. S. Landaff City, N. 50° 27′, W. 18° 51′			54	12.2		n.			5		4		nnw.	0	0	mod.	n.	clear.
S. S. Marathon, N. 37° 02′, E. 11° 31′	30.03	762.7	68	20.0		n.			3		2		n.	0	0	sm'h	n.	fine.
S. S. Pavonia, N. 41° 16′, W. 52° 46′	29.84	757.9	70	21.1	90	sw.			4		10		wnw.	0	0	sli't	ne.	hazy.
S. S. Scythia, N. 42° 31′, W. 53° 56′	29.87	758.7	55	12.8	?	w.			3		10			0	0	mod	w.	hazy.
S. S. Rhiwindda, N. 48° 00′, W. 42° 37′			59	15.0		sse.			4		7		se.	0	0	cross		foggy.
S. S. France, N. 49° 49′, W. 7° 29′†	29.83	757.7	60.8	16		e.			1		10?		e.	0	0	sm'h	s.	clear?
S. S. Abyssinia, N. 42° 42′, W. 49° 46′	29.85	758.2	52	11.1	79	sw.			4		10		sw.	8 h'r	8 h'r	mod.	ne.	dense fog.
S. S. Bohemia, N. 40° 28′, W. 73° 51′						sw.			3		2		sw.	0	0			fair.
S. S. Gellert, N. 41° 20′, W. 56° 30′	29.98	761.5	52	11.1	86	w.			4		10		wnw.	0	0	mod.	w.	covered.
S. S. Rugia, Hamburg, Germany	29.89	759.2	79	26.1		wnw.			5		0			0	0			clear.
S. S. Silesia, N. 46° 21′, W. 22° 31′	30.01	762.2	55	12.8		ene.			3		5		ene.	0	0	3	ne.	fair.
S. S. Wieland, N. 49° 36′, W. 17° 59′	30.16	766.1				n.			2		5		n.	2 h'r	2 h'r	sm'h	ne.	hazy.
S. S. City of Berlin, N. 41° 41′, W. 59° 40′	29.96	761.0	64	17.8	89	wnw.			3		10		n.	3 h'r	3 h'r	sli't	nw.	fine.
S. S. Bulgarian, N. 44° 59′ W. 47° 44′*	29.83	757.7				sw.			4		10			1 h'r	1 h'r	light	nw.	raining.
S. S. Hevelius, N. 19° 02′, W. 25° 00′†	30.22	767.6	74	23.3		ene.			5		4		ne.	0	0	sm'h		fair.
S. S. Ptolemy, N. 29° 15′, W. 18° 30′	30.20	767.1	69.2	20.7	70	ene.			4	4 ck	0			0	0	3	var.	fair.
S. S. Colorado, New York, N. Y†	29.95	760.7	69	20.6		sw.			1		1		sw.	0	0			clear.
S. S. Chalmette, N. 25° 05′, W. 80° 05′ †	30.13	765.3	81	27.2		se.			4		2		se.	1 h'r	1 h'r	sm'h		clear.
S. S. New York, N. 36° 15′, W. 74° 45′*†	30.02	762.5	70	21.1		ssw.			2		hz					sm'h	sw.	hazy.
S. S. Hermod, N. 22° 40′, W. 58° 30′ †	30.20	767.1	77	25.0		ne.			3		8		ne.	0	0	sm'h	ne.	cloudy.
S. S. City of Merida, N. 18° 40′, W. 92° 45′ †	29.81	757.2	81	27.2		se.			1		10		e.	0	0	light	e.	cloudy.
S. S. City of Washington, Havana, Cuba†	30.08	764.0	82	27.8					2		8		s.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Denmark, N. 40° 43′, W. 50° 54′ †	30.05	763.3	68.	20.0		wsw.			4		8		wsw.	5 h'r	5 h'r	sli't	ne.	cloudy.
S. S. England, N. 40° 27′, W. 61° 57′	30.07	763.8	57	13.9		w.			4		5		w.	0	0	mod.	w.	fair.
S. S. Erin, N. 44° 29′, W. 38° 43′	29.91	759.7	63	17.2		se.			8		10		e.	10 h'r	10 h'r	h'vy	e.	overcast.
S. S. Greece, N. 49° 26′, W. 15° 14′	30.04	763.0	58	14.4	94	n.			2		2		n.	0	0	light	n	clear.
S. S. Helvetia, N. 50° 39′, W. 20° 42′	30.14	765.5	59	15.0	94	nnw.			4		10		nnw.	2 h'r	2 h'r	mod.	n.	showery.
S. S. The Queen, N. 46° 46′, W. 34° 01′	29.98	761.5	69	20.6	39	e.			6		10		e.			r'gh	e.	misty.
S. S. Braunschweig, N. 41° 07′, W. 55° 18′	29.94	760.5	75.0	23.9	81	wnw.			4		10		wnw.	6 h'r	6 h'r	mod.	w.	cloudy.
S. S. Fulda, N. 49° 11′, W. 18° 29′	30.11	764.8	61	16.1	77	n.			2		2		nw.	0	0	mod.	nw.	clear.
S. S. Habsburg, N. 48° 16′ W. 29° 59′	30.21	767.3				ssw.			4		2		ssw.	0	0	mod.	sw.	clear.
S. S. Hohenstaufen, N. 37° 19′, W. 72° 39′	29.98	761.5				sse			3		7		se.			sm'h	se.	light haze.
S. S. Hermann, N. 49° 55′ W. 11° 20′	29.84	757.9	59	15.0	76	n.			4		5		n.	0	0	mod.	n.	fair.
S. S. Main, N. 41° 33′, W. 54° 42′	29.90	759.4	64	17.8		nw.			4		9		n.	7 h'r	7 h'r	mod.	ne.	foggy.
S. S. Salier, N. 40° —′, W. 73° 30′ *	29.92	760.0	59	15.0	76	sw.			2		8		ssw.	4 h'r	4 h'r	sm'h	ssw.	cloudy.
S. S. Strassburg, N. 45° 40′, W. 33° 10′	30.02	762.5	59.0	15.0	100	ese.			6		10		ese.	14 h'r	14 h'r	7	ese.	drizzling.
S. S. City of Augusta, New York, N.Y†	29.98	761.5				ssw.			4		10		sw.	rain	rain			cloudy.
S. S. Colon, New York, N. Y †	29.89	759.2	71	21.7		s.			2					0	0			cloudy.
S. S. Muriel, St. Lucia, W. I	30.11	764.8	80	26.7		e.			2		10		e.			sm'h		drizzling.
S. S. Orinoco, N. 37° 50′ W. 70° 20′			73	22.8		nne.			4		10		nne.	2 h'r	2 h'r	mod.	var.	cloudy.
S. S. Rhynland, Antwerp, Belgium	29.89	759.2	56	13.3	100	ssw.			1		3		nw.	11 h'r	11 h'r	sm'h		squally.
S. S. Pennland, N. 44° 53′, W. 35° 12′	29.92	760.0	62	16.7	94	e.			6		8		e.	16 h'r	16 h'r	high	e.	raining.
S. S. Waesland, N. 42° 32′, W. 43° 48′	29.90	759.4	69	20.6		n.			3		5		nnw.	0	0	long	ne.	fair.
S. S. P. Caland, Jersey City, N. J	29.94	760.5	72.5	22.5	88	se.			1		8		sw.					hazy.
S. S. Rotterdam, N. 48° 57′, W. 20° 47′	30.19	766.8	62	16.7	88	n.			3		4		n.	0	0	3	n.	fair.
S. S. W. A. Scholten, Rotterdam, Holland	29.86	758.4	66.0	18.9	79	se.			2		7		ese.	0	0			fair.
S. S. Caracas, Puerto Cabello, Venezuela†	30.02	762.5	80	26.7	89	w.			1				ene.	1½h'r	1½h'r	mod.	ne.	overcast.
S. S. State of Georgia, N. 53° 16′, W. 22° 04′†	30.27	768.8	55	12.8		n.			3		9		ne.	0	0	sm'h		cloudy.
S. S. State of Indiana, N. 47° 00′, W. 50° 15′			39	3.9		nw.			2		10		sw.	4 h'r	4 h'r	sm'h		rain & fog.
S. S. State of Nebraska, N. 40° 16′, W. 61° 45′*†	30.00	762.0	62	16.7					1		2			0	0	sm'h		hazy.
S. S. Thingvalla, N. 46° 00′, W. 44° 25′†	29.79	756.7	49.1	9.5		ssw.			3		10			0	0	mod.	ssw.	overcast.
S. S. Toledo, N. 44° 54′, W. 8° 30′ *†	30.08	764.0	60	15.6		wsw.			7		6		wsw.	0	0	hv'y	sw.	fair.
S. S. Romano, N. 46° 48′, W. 26° 29′ †	30.21	767.3	55	12.8		sse.			3		2		sse.	0	0	mod.	nw.	clear.
S. S. Dominion, N. 56° 35′, W. 12° 27′*†	29.87	758.7	56	13.3		nw.			3		8		nw.			mod.	nw.	cloudy.
S. S. Lake Huron, off Galway, Ireland	29.90	759.4	60	15.6		ne.			2		0			0	0	sm'h		clear.
S. S. Lake Manitoban, N. 49° 05′, W. 67° 00′	29.86	758.4	56	13.3		ne.			1		2			0	0	sm'h		clear.
S. S. Daniel Steinmann, N. 51° 07′, W. 28° 03′†	30.19	766.8	63	17.2		sse.			2		4		s.	0	0	mod.	w.	fair.
S. S. Plantyn, N. 49° 23′, W. 11° —′	29.86	758.4				calm			0		3		sw.	0	0	sm'h	n.	clear.
S. S. Norman, N. 39° 56′, W. 75° 08′	29.82	757.4				sw.			5		0			0	0			clear.
S. S. Saxon, N. 40° 00′, W. 73° 25′†	29.97	761.2				sw.			4		10							dense fog.
S. S. Baltic, N. 41° 04′ W. 67° 47′*	29.99	761.7	51	10.6	93	w.			1		10		w.			sm'h		rain & fog.
S. S. Britannic, N. 41° 44′, W. 61° 54′†	30.06	763.5	56	13.3		nw.			1		2		sw.	0	0	sm'h	sw.	clear.
S. S. Celtic, N. 48° 40′ W. 32° 48′†	30.14	765.5	54	12.2		se.			5		5		se.	0	0	mod.	s.	fair
S. S. Antonio Lopez, Cadiz, Spain	30.16	766.1	70	21.1	70	wnw.			3		1			0	0			clear.
Schr. Abbie H. Gheen, N. 31° 30′, W. 79° 20′ †	30.08	764.0	80	26.7		sw.			4							h'vy	se.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Aquidneck, N. 34° 43′, W. 57° 48′*†	30.20	767.1				wsw.			2		0			0	0	light	wsw.	clear.
Bg. Alcira, N. 34° 18′, W. 74° 02′	30.05	763.3	79	26.1		ssw.			3		10		ssw.	12 h'r	12 h'r	mod.	ssw	cloudy.
Schr. Anna A. Holton, N. 37° 35′, W. 74° 13′*†	30.04	763.0	70	21.1		s.			3		8		sw.	3 h'r	3 h'r	mod.	s.	hazy.
Schr. Arthur Burton, N. 35° 15′, W. 75° 18′†	30.05	763.3				sw.			2		2		sw.	3 h'r	3 h'r	mod.	sw.	fine.
Bk. Aureola, N. 40° 42′, W. 39° 23′†	29.79	756.7	72	22.2		e.			1		3		e.	0	0	mod.	n.	clear.
Bk. Arda, Sackville, N. B.						ne.			2		4		ne.	0	0			fair.
Bk. Alba, N. 42° 40′, W. 58° 50′*†	29.98	761.4	56.1	13.4		wnw.			5					0	0			
Bg. Belle of the Bay, Galveston, Texas†	29.76	755.9				s.			5		6		sse.	0	0			fair.
Schr. C. R. Flint, N. 24° 06′, W 89° 59′†.	29.86	758.4	82	27.8		sse.			2		5		s.	0	0	short	sse.	fair.
Bk. Childwall, N. 48° 10′, W. 12° 24′*	29.89	759.2	59	15.0		n.			4		10		nne.	0	0	sm'h		hazy.
Bk. Cato, Bodöe, Norway*†	29.95	760.7				e.			3									
S. Criterion, N. 45° 41′, W. 45° 50′*†	29.75	755.6				ssw.			3		3		w.	rain	rain	light	ene.	clear.
Schr. Clotilde, Tampico Bar, Mexico*†	29.72	754.9	83	28.3		se.			1		0			0	0	sm'h	se.	clear.
S. David Stewart, N. 8° 37′, W. 28° 30′†	29.93	760.2				ne.			4		hz.			0	0	mod.	ne.	
S. S. D. J. Foley, N. 31° 39′, W. 74° 50′*†	30.10	764.5	80	26.7	82	sw.			3		5		wsw.	0	0	long		fair.
Bkt. David A. Preston, N. 18° 38′, W. 74° 32′						ne.			2		0			0	0	mod.	ne.	
S. E. J. Spicer, N. 46° 43′, W. 33° 35′	30.03	762.7	56	13.3	100	s			6		10		sw.	0	0	mod.	ssw.	cloudy.
Bk. E. D. Bigelow, N. 51° 41′, W. 6° 25′*†	29.85	758.2	60	15.6		nne.			1		1			0	0	long	sw.	clear.
U. S. Fish. Com. S. S. Fish Hawk, New Pt. Comfort, Va†	29.98	761.5	73	22.8	95	sw.			2		10		sw.	0	0			cloudy.
Schr. F. E. Waters, Chesapeake bay*†	30.00	762.0				s.			1				sse.	0	0			fair.
Bgt George, N. 32° 06′, W. 67° 03′*†	30.16	766.1	75	23.9		sw.			2		2		sw.	0	0	sm'h		fair.
Bk. Galeon, N. 21° 40′, W. 88° 40′†	29.85	758.2	78	25.6		se.			1		4		se.	0	0	sm'h	ene.	misty.
Bk. Heinrich & Tonio, N. 46° 16′, W. 22° 46′†	30.18	766.6	60	15.6		n.			1-2		0			3 h'r	3 h'r	light	n.	clear.
S. Hedwig, N. 37° 28′, E. 10° 58′	30.02	762.5	71.6	22.0	89	nnw.			2		0			0	0	sm'h		
Bk. Hattie G. McFarland, Port Royal, S. C†	29.86	758.4	76	24.4		sw.			2		8		sw.	8 h'r	8 h'r			clearing.
Bk. Horace Scudder, N. 4° 18′, W. 36° 13′*†	30.10	764.5	82	27.8		s.			3		7		s.	2 h'r	2 h'r	long	ne.	fine.
Schr. Isabel Alberto, N. 39° 51′, W. 73° 57′†	29.99	761.7				sw.			1		fg.			0	0	light	sse.	foggy.
Bk. Johanne, N. 44° 20′, W. 15° 18′*†	30.00	763.5	60	15.6		wnw.			4		5		nw.	4 h'r	4 h'r	mod.	nw.	clear.
Schr. John L. Thomas, N. 16° 20′, W. 83° 48′*†	29.94	760.5				se.			5		10		s.	2 h'r	2 h'r	h'vy	ese.	rainy.
Bg. John Wesley, N. 32° 29′, W. 44° 18′*†	29.96	761.0	76	24.4		nw.			5		4		nw.	½ hr	½ h'r	long	nw.	fair.
Schr. Jennie N. Huddell, Charleston, S. C†	29.97	761.2	80	26.7	96	sw.			2		5		sw.	sh'rs	sh'rs			fair.
S. J. W. Gildemeister, N. 37° 42′, W. 60° 56′	30.10	764.5	76.1	24.5	86	wsw.			5		9 k		var.	0	0	4	wsw.	misty.
Bkt. Kryolith, Ivigtut, Greenland*†	29.58	751.3				nw.			6		8		s.	rain	rain			threatening.
Bg. L. & W. Armstrong, N. 33° 07′, W. 63° 29′*†	30.30	769.6				sw.			3		2		sw.	0.	0	sm'h	s.	clear.
Light House Tender, Laurel, Egmont Key, Fla†	30.08	764.0	80	26.7		ese.			3		8		sse.	1 h'r	1 h'r			cloudy.
Bg. Lilian, N. 36° 55′, W. 75° 00′†	29.96	761.0	75	23.9		s.			1		9		sw.	2½h'r	2½h'r	sm'h	sse.	cloudy.
Bk. Louise Adelaide, Matanzas, Cuba, W. I†	30.04	763.0	80	26.7		calm			0					1 h'r	1 h'r			fair.
Bk. Milo, N. 44° 14′, W. 42° 00′†	29.80	756.9				se.			1				se.				se.	overcast.
S. S. Madrid, N. 35° 55′, W. 8° 05′†	30.17	766.3	65	18.3	84	nnw.			4		0			0	0	mod.	nw.	clear.
Schr. Minnie A. Bonsall, Bridgeport, Conn†	29.94	760.5	78	25.6		sw.			2					0	0			clear.
Bk. Matilda C. Smith, N. 48° 00′, W. 12° 30′†	30.21	767.3				nne.			4		8		ne.	0	0	mod.		fine.
Bgt. Myrtle, Barbadoes, W. I*†	30.12	765.0				ese.			3				e.	0	0			fair.
Bk. Matthias, N. 49° 37′, W. 4° 14′*†	30.08	764.0	64	17.8		ne.			2		10			0	0	mod.	sw.	foggy.
Schr. Maggie Abbott, Baracoa, Cuba†	30.02	762.5									2		calm	0	0			clear.
Bk. National Eagle, N. 38° 36′, W. 36° 53′						e.			1		5		ese.	0	0	mod.	w.	fair.
Bg. O. C. Clary, N. 31° 50′, W. 63° 04′*†	30.20	767.1				sw.			2		0					sm'h	se.	clear
Bk. Ottawa, off Start Point, Eng	29.79	756.7	61	16.1		calm			0		fg.			0	0	small	sw.	foggy.
S. Paramita, N. 19° 40′, W. 38° 11′†	30.14	765.5	77	25.0		ne.			4		5		ne.	0	0			fair.
S. S. Raleigh, N. 32° 20′, W. 74° 28′†	30.13	765.3	77	25.0		s.			3		5		s.	0	0	mod.	s.	
S. Rudolph, N. 50° 36′, E. 0° 14′			60.3	15.7		ene.			3		fg.		ene.	0	0	sm'h	ene.	foggy.
Bg. Rising Sun, Barbadoes, W. I.†	30.04	763.0	81	27.2										h'vy	h'vy			rainy.
Bk. Rosino, N. 40° 47′, W. 24° 58′			68	20.0		se.			4		fg.			0	0	mod.	n.	foggy.
Bk. Sunbeam, N. 40° 23′, W. 42° 14′†	29.85	758.2	67	19.4	84	ne.			2		2		ne.	0	0	mod.	wnw.	fair.
Bk. Southern Belle, N. 29° 20′, W. 40° 25′†	29.98	761.5	74	23.3		w.			5					½h'r	½h'r	rg'h	var.	clear.
S. Sovereign of the Seas, N. 36° 58′, W. 56° 54′			74	23.3	95	w.			4		6		w.	0	0	mod.	ne	hazy.
Bkt. Wandering Jew, Matanzas, Cuba*†	30.00	762 0	81	27.2		s.			2		4		sse.	0	0			fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†	29.75	755.6	55.2	12.9	98	w.			2		9	sw.						raining.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.06	763.5	62	16.7		nw.			3-6		4							squally.
H. M. S. Sylvia, Buenos Ayres, La Plata.	29.69	754.1	54	12.2	97	sw.			2-4		10							raining.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.73	755.1	55	12.8	93	nne.	0	2.7			8		calm	0	0	sm'h		fair.
U. S. S. Galena, Montevideo, Uruguay*	29.73	755.1	56	13.3	87	nnw.			1		8					sm'h		fair.
S. Wm. McGilvery, S. 26° 43′, W. 43° 10′*†	30.30	769.6	74	23.3	70	ne.			5		9		ne.	0	0	sm'h		
May Hulse, S. 15° 08′, W. 25° 50′	30.16	766.1	75.5	24.2	88	ene.			3		3							d. clouds.
S. S. Olbers, S. 4° 16′, W. 30° 27′†	30.06	763.5	83	28.3	71	se.			5		4		ese.	3 h'r	3 h'r	r'gh	se.	showery.
Bk. Achille F., S. 14° —′, W. 33° —′†	30.13	765.3	79	26.1	78	ese.			4		3		se.	0	0	mod.	var.	clear.
Bk. Alpheus Marshall, S. 19° 17′, E. 0° 15′*†	30.10	764.5				se.			3		7		se.	0	0	mod	w.	fair.
Bk. Ceylon, S. 30° 47′, E. 11° 37′*†	30.33	770.4	68	20.0	79	ssw.			6		2		wsw.	sli't	sli't	h'vy	sw.	clear.
S. Dynomene, S. 25° 00′, E. 10° 12′	30.25	768.3	68	20.0	90	se.			3		3			0	0	mod.	sw.	misty.
Bk. Adelaide, S. 15° 52′, W. 36° 07′*†	30.28	769.1	81	27.2		se.			5		3		sse.	0	0	long	sw.	squally.
H. P. M. S. Duque de Terceira, Mossamedes, Beng'la.	29.99	761.7	70.5	21.4	70	wnw.			1		0			0	0	1	sw.	blue sky.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 35° 15′, E 122° 45′	29.80	756.9	66	18.9	89	ese.			3		10	e.				2	e.	foggy.
H.M. S. Champion, Labuan Island, Borneo	29.68	753.9	86	30.0	80	var.			1		2							d. clouds.
H. M. S. Espiegle, N. 2° 20′, E. 173° 03′	29.89	759.2	83	28.3	71	nne.			1		2					1	e.	d. clouds.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 37′	29.91	759.7	68	20.0	82	calm			0		8							misty.
H. M. S. Magpie, N. 5° 16′, E. 115° 15′	29.80	759.9	85.2	29.6	81	calm			0		2	ne.						d. clouds.
H. M. S. Zephyr, N. 34° 41′ E. 135° 12′	29.92	760.0	70	21.1	90	calm			0		5							d. clouds.
H. P. M. S. Tamega, Macao, China	29.76	756.0	80.2	26.8	80	se.			5-6		2			0	0			misty.
U. S. Naval Hospital, Yokohama, Japan	30.02	762.5	61	16.1	88	e.			1		2		nw.	sli't	sli't			misty.
U. S. S. Adams, Sitka, Alaska†	30.04	763.0	49	9.4	93	wsw.			1		10					sm'h		cloudy.
U. S. S. Essex, N. 11° 44′, W. 139° 16′	29.92	760.0	79	26.1	62	ne.			5		5					sm'h		fair.
U. S. S. Hartford, Honolulu, Sandwich Ids*	29.96	761.0	75	23.9	86	calm			0		5			0	0			fair.
U. S. S. Monocacy, Salee river, Corea	29.91	759.7	68	20.0	79	ne.			1		10		calm					misty.
U. S. S. Palos, Hong Kong, China	29.67	753.0	79	26.1	82	e.			1		2		calm					clear.
U. S. S. Richmond, Amoy, China*	29.61	752.1	80	26.7	74	ene.			4		2		ene.	0	0			clear.
S. S. Arabic, N. 48° 02′, W. 171° 49′			42	5.6	91	nne.			4		10		ne.	0	0	sm'h		hazy.
S. S. Oceanic, Yokohama, Japan	30.09	764.3	70	21.1	75	var.			3		5							fair.
S. S. Columbia, N. 40° 45′. W. 124° 28′†	29.84	757.9	54	12.2	83	n.			2		0					h'vy	n.	clear.
S. S Oregon, N. 44° 06′, W. 124° 09′†	30.09	764.3	54	12.2	93	n.			2							light	nnw.	foggy.
S. S. Willamette, N. 40° 00′, W. 124° 25′†	29.82	757.4	53	11.7	93	nnw.			3		2		nnw.	0	0	long	nnw	hazy.
S. S. Ancon, N. 33° 35′, W. 118° 08′†	29.82	757.4	62	16.7	88	wnw.			1		10					light	w.	misty.
S. S. City of Chester, Eureka, Cal†	29.83	757.7	52	11.1	86	calm			0		10							overcast.
S. S. Dakota, Port Townsend, Wash. Ter.†	30.13	765.3	52	11.1	86	ne.			4		4		n.			sm'h	nw.	fair.
S. S. Queen of the Pacific, San Francisco, Cal.†	29.78	756.4				calm			0		10			0	0			foggy.
S. S. City of Rio de Janeiro, N. 31° 45′, E. 132° 23′†	29.98	761.5	75	23.9	81	se			2		8		s.	0	0	light	sse.	hazy.
S. S. Colima, N. 17° 53′, W. 103° 00′†	29.92	760.0	79	26.1	82	e.			4		8		se.	0	0	small	sw.	cloudy.
S. S. Granada, Champerico, Mexico†	29.95	760.7	76	24.4	91	e.			1		5		e	2 h'r	2 h'r			fair.
S. S. San Blas, Panama, Panama			84	28.9		calm			0		1		s.	1 h'r	1 h'r			clear.
S. S. Zealandia, N. 34° 11′, W. 134° 08′			64	17.8	89	nne.			5		0					h'vy	ne.	clear.
S. S. Radnorshire, N. 35° 08′, E. 139° 43′*†	29.93	760.2				ne.			2		4		ne.	0	0	sli't	se.	hazy.
S. Sacramento, N. 12° 00′, E. 120° 45′*†	29.92	760.0	83	28.3	79	sw.			3		10		sw.	4 h'r	4 h'r	mod.	sw.	overcast.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. St. David, N. 8° 40′, E. 108° 42′ *†	29.74	755.4	85	29.4	79	sw.			4		2		sw.	½ h'r	½ h'r	short	sw.	hazy.
Bk. Xenia, Shanghai, China			80	26.7		se.			7		5		sse.	2 h'r	2 h'r			fair.
H. M. S. Sappho, Acapulco, Mexico	29.87	758.7	81	27.2	96	calm			0		3	nw.						d. clouds.
U. S. S. Ranger, N. 13° 52′, W. 90° 57′	29.96	761.0	78	25.6	86	se.			1		8			0	0	sm'h		cloudy.
S. Henry Failing, N. 33° 37′ W. 120° 54′ †	29.75	755.6	58	14.4		s.			2		fg.			0	0	long	w.	foggy.
S. Grecian, Yokohama, Japan †	29.97	761.2	64	17.8	94	n.			5		6		n.	6 h'r	6 h'r			fair
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W			53	11.7	93	sw.			1		4	sw.						misty.
H. M. S. Kingfisher, S. 29° 04′, W. 125° 10′	29.93	760.2	69	20.6		nnw.			4		5					3	n.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.71	754.6	74	23.3	90	nw.			2		10							raining.
U. S. S. Iroquois, Valparaiso, Chili	30.12	765.0	55	12.8	81	e.			1		2							clear.
U. S. S. Lackawanna, S. 22° 16′, W. 90° 04′ *	30.12	765.0	68	20.0	84	w			1		10		n.			sm'h	nw.	cloudy.
U. S. S. Onward, Callao, Peru †	30.12	765.0	65	18.3	73	calm			0		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.97	761.2	64	17.8	83	se.	1	0.4			10			0	0			misty.
U. S. S. Wachusetts, Tahiti Id, Society Ids *†	30.04	763.0	75	23.9	90	sw.			1		2		calm			sm'h		clear
S. S. Australia, Sydney, N. S. W	30.11	764.8	54	12.2	87	n.			2		2		w.	0	0			clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.80	759.2	81.3	27.4	85	ene.			1		6					sm'h		thnd'r sh'rs.
S. S. City of Sydney, Sydney, N. S. W*†	30.27	768.8	54	12.2	87	w.			1		0							clear.
Bk. Edmund Phinney, Pisagua, Peru*†	30.08	764.0	64	17.8		ese.			3		5		ssw.	0	0	light	w.	light haze.
S. Parker M. Whitmore, S 49° 13′, W. 86° 40′ *†	29.30	744.2	43	6.1		se.			7		5		se.	2 h'r	2 h'r	short	se.	squally.
S. Storm King, S. 48° 28′ W. 79° 03′ *†	29.00	736.6				nnw.			5		4		nw.	mod.	mod.	r'gh	nw.	sprinkling.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.01	762.2	81	27.2	87	sse.			2		2	sse.				3	sse.	d clouds.
U. S. S. Enterprise, Tullear Bay, Madagascar, Africa*	30.13	765.3	74	23.3	72	wsw.			2		5		sw.			sm'h		fair.
U. S. S. Juniata, N. 13° 20′, E. 73° 36′	29.72	754.9	83	28.3	100	sw.			3		10		sw.	h'vy	h'vy	long	sw.	rainy.
S. S. Galatia, N. 15° 15′, E. 52° 52′*†	29.70	754.4	84	28.9		ssw.			4		0			0	0	high	s.	clear.
S. S. Malabar, Bassein, India*†	29.70	754.4				sw.			5		5		sw.	8 h'r	8 h'r	sm'h		raining.
S. Annie M. Law, S. 37° 15′, E. 22° 26′ *†	29.51	749.5	68	20.0		wnw.			9		10		wnw.	3 h'r	3 h'r	high	n.	gale.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 10, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.07	763.7	74.8	23.8	86	e.			1		0			0	0	clear	Malaterre.
Algiers			30.04	763.1	71.6	22.0	56	nne.			2		0			0	0	clear	Thève.
La Calle			30.01	762.3															Fonfrède.
Tunis			29.97	761.1															Jacques.
Saida			30.07	763.7															Pérès.
Tebessa			30.00	761.9	86.7	30.4	6	se.			4		0			0	0	clear	St. Martin.
Geriville					87.8	31.0	3	se.			3		0			0	0	clear	Forfert.
Laghouat			29.93	760.2	91.4	33.0	10	e.			2		0			0	0	clear	Abraham.
Biskra			29.94	760.4	96.8	36.0	13	s.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.27	768.8	55.0	12.8	65	ne.	10	4.5		6 cs				0	0	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.22	767.6	30.31	769.9	44.0	6.7	91	sw.	7	3.1		0	0			0	c	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.29	744.0	29.81	757.2	78.8	26.0	44	s.			2		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.04	737.7	29.79	756.6	65.8	18.8	94	w.	6.3	2.8			10			0.488	12.4		Dr. Wierzbiski
Eperies	28.95	735.4	29.79	756.6	74.5	23.6	64	calm			0		7 ks			0.161	4.1		Julius Mikolik.
Gratz	28.63	727.1	29.81	757.1	76.1	24.5	64	se.			2		7			0.220	5.6	lightning	Andreas Rospini.
Hermannstadt	28.45	722.5	29.79	756.7	79.7	26.5	44	se.			2		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.60	726 4	29.91	759.8	61.9	16.6	67	w.			2		9			0.047	1.2	covered	The Staff.
Lemberg	28.84	732 4	29.78	756.3	73.9	23.3	66	w.			3		8			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.78	756.5	29.89	759.2	76.6	24.8	57	wnw.			3		3			0	0	lightning	I. R.Hydrographic Office.
Szathmar	29.32	744.8	29.77	756.1	78.6	25.9	50	w.			3		6			0.031	0.8	thund'rst'm	Joseph Midlinszky, S. J.
Szegedin	29.53	750.0	29.79	756.7	75.6	24.2	54	sw.			1		6			0	0		Karl Stancel.
Trieste	29.77	756.2	29.87	758.7	79.0	26.1	59	sw.			1		7			0	0		Royal Academy.
Vienna	29.18	741.2	29.87	758.8	67.3	19.6	61	w.			4		1			0.024	0.6	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.00	762.0	30.10	764.5	50.2	10.1	79	ene.	10	4.5			10			0	0	overcast	W. Boswell.
Armagh, Observatory	29.85	758.2	30.07	763.8	57.0	13.9	81	n.	3	1.3									S. Call.
Bidston, Liverpool Obs'y			30.02	762.5	59.0	15.0	76	wnw.	16	7.2			7					d. clouds	John Hartnup.
Bolton, Sharples	29.45	748.0	29.98	761.5	62.3	16.8	69	n.	3	1.3			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0	0		McLandsborough&Preston.
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	81.0	27.2	85	ne.			2		6					gloomy	Corpl. W. I. Cull, A.H.C.
Cardington	29.86	758.4	29.96	761.0	70.0	21.1	58	ne.			0.4		8					overcast	John McLaren.
Chatham, School M. E.	29.81	757.2	29.94	760.5	63.6	17.6	72	ne.			2		8					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.80	756.9	30.03	762.7	61.6	16.4	73	nnw.			4		5					d. clouds	The Staff.
Fort Napier, Natal	27.83	706.9	30.05	763.3	65.0	18.3	44	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.57	751.1	29.80	756.9	82.0	27.8	87	nw.			1		7					raining	J. W. Smith.
Galway, Queen's College	30.06	763.5	30.09	764.3	58	14.4	64	nw.			2		4			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	75.2	24.0	74	nw.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.79	756.7	30.00	762.0	54.4	12.4	72	ene.			3		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.78	756.4	29.94	760.5	69.3	20.7	52	ne.			1		6					d. clouds	The Staff.
Guernsey	29.69	754.1	29.99	761.7	60.0	15.6	88	n.			1		9					foggy	A. Collenette, F. M. S.
Kew, Observatory	29.92	760.0	29.95	760.7	66.0	18.9	45	ne.	12	5.4			7					d. clouds	The Staff.
Leicester, Museum	29.73	755.1	29.98	761.5	66.3	19.1	60	nw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.91	759.7	29.98	761.5	77.2	25.1	93	w.										blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.14	765.5	84.0	28.9	71	se.			3		7			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.48	748.8	29.99	761.7	67.6	19.8	49	n.			1		10					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.74	755.4	29.96	761.0	65.5	18.6	65	ne.			1		5					misty	The Staff.
Plymouth	29.90	759.4	29.98	761.5	67.0	19.4	69	nnw.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.99	761.7	30.09	764.3	51.1	10.6	79						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.74	755.4	29.80	756.9	69.8	21.0	81	sw.			1		7					d. clouds	W. H. Lyne.
Sheffield	29.74	755.4	30.02	762.5	61.3	16.3	82	nnw.			1		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.00	762.0	30.03	762.7	57.7	14.3	75	e.			3		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.02	762.5	63.4	17.4	61	sw.	1	0.4			10					misty	W. C. Carlisle.
Truro, Royal Institution	30.01	762 2	30.10	764.5	64	17.8	67	nw.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.17	766.3	30.19	766.8	55.5	13.1	63	nnw.	19	8.5			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.60	751.8	30.00	762.0	81.6	27.6	46	w.	5.0	2.2						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.85	758.2	29.89	759.2	61	16.1	85	s.	3	1.3			10 n		sw.	0.025	0.6	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.80	756.9	29.86	758.4	59	15.0	100	se.	1	0.4			10 n		se.	0.72	18.3	light rain	G. A. Blair.
Cornwall, Ontario	29.49	749.0	29.68	753.9	59.7	15.4	95	ne.			2		10 s			0.065	1.6	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B																			H. A. Johnson.
Father Point, Quebec*	29.82	757.4	29.84	757.9	42	5.6	93	ne.	30	13.4			10					heavy rain	J. McWilliams.
Fort Garry, Manitoba*	28.85	732.8	29.67	753.6	50	10.0	93	s.	12	5.4		10 cs	0			0	0	hazy	James Stewart.
Fredericton, N. B	29.77	756.1	29.83	757.7	58.1	14.5	94	se.	10	4.5			10 n			0.040	1.0	raining	Prof. Harrison, L. L. D.
Granton, Ontario	28.71	729.2	29.80	756.9	50.1	10.1	100	w.	5	2.2			10 n			0.15	3.8	foggy	Jas. Grant.
Halifax, N. S*	29.83	757.7	29.96	761.0	54	12.2	86	s.	6	2.7		5 ck	0			0	0	fair	A. Allison.
Hamilton, Ontario	29.35	745.5	29.73	755.1	58.9	14.9	94	sw.			1	9 ck	0	sw.		0.10	2.5	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.39	746.5	29.72	754.9	59	15.0	96	sw.	4	1.8			10 ks		w.	0.20	5.1	foggy	A. P. Knight, M. A.
Little Glace Bay, N. S	29.94	760.5	29.98	761.5	60.8	16.0	84	s.			2		10 n			0	0	overcast	C. H. Rigby.
London, Ontario	28.92	734.6	29.80	756.9	57.7	14.3	94	calm					10 n			0.15	3.8	overcast	E. B. Reed.
Montreal, Quebec*	29.53	750.0	29.73	755.1	59	15.0	90	ne.	1	0.4			10 n			0.37	9.4	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.48	748.8	29.71	754.6	58.9	14.9	94	ne.					10 s					raining	A. McGill, M. A.
Parry Sound, Ontario*	29.06	738.1	29.75	755.6	54	12.2	92	n.	7	3.1			10 n		ne.	0.39	9.9	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.00	736.6	29.71	754.6	62.7	17.1	94	w.			1		9 ks			0.010	0.3	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.10	739.1	29.78	756.4	59	15.0	94	w.	8	3.6		10 c	0	w.		0.17	4.3	fair	H Morgan.
Port Stanley, Ontario	29.16	740.7	29.79	756.7	57	13.9	86	w.	8	3.6			10 n		nw.	0.22	5.6	cloudy	M. Payne.
Quebec, Quebec*	29.42	747.3	29.77	756.1	53	11.7	100	ne.	18	8.0			10 n		ne.	0.54	13.7	foggy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.30	744.2	29.75	755.6	56	13.3	93	calm	0	0			10 ks		ne.	0.41	10.4	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.77	756.1	29.82	757.4	50	10.0	100	s.	8	3.6			fg			0	0	foggy	
St. John, N. B	29.68	753.9	29.85	758.2	50.0	10.0	100	sw.	10	4.5			fg.			0.060	1.5	foggy	G. Murdock, C. E.
Saint John's, N. F	29.87	758.7	30.12	765.0	52	11.1	93	sw.			1	0	5 ks			0	0	d clouds	J. Higgins.
St. Pierre, N. F			30.00	762.0	58.3	14.6		sw.			2					0	0		The Commandant.
Saugeen, Ontario*	29.06	738.1	29.77	756.1	51	10.6	72	n.	9	4.0			10 ks			0.43	10.9	cloudy	
Stratford, Ontario	28.54	724.9	29.80	756.9	51.9	11.1	92	w.	4	1.8			10 s			0.229	5.8	d. clouds	C. J. Macgregor, M A.
Sydney, C. B*	29.93	760.2	29.99	761.7	58	14.4	90	s.	6	2.7			10 k		sw.	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.39	746.5	29.76	755.9	59	15.0	87	sw.	13	5.8			10 ks		w.	0.03	0.8	cloudy	Magnetic Observatory.
Windsor, N. S	29.89	759.2	29.99	761.7	64.0	17.8	73	w.	3	1.3		9 cs	0			0	0	d. clouds	Prof. W. R. Butler, M.A.
Woodstock, Ontario	29.77	756.1	29.81	757.2	54.7	12.6	93	sw.	13	5.8			10 s			0	0	overcast	Prof Wolverton, M.A.
Yarmouth, N.S*	29.85	758.2	29.92	760.0	55	12.8	96	s.	2	0.9			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.35	770.9	30.38	771.6	60.0	15.6	76	w.	52.4	23.4		0	1 s			0.020	0.5	light haze	John Duffie
Springbok Fontein	28.07	713.0			60	15.6	20	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Guelny.
Tchang-kia-tchouang	29.81	757.1	29.92	759.9	73.8	23.2	69	ne.			3		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.81	757.2	29.84	757.8	69.8	21.0	92	e.	23.0	10.3			10 n			0.083	2.1	raining	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.76	755.8	29.80	757.0	64.0	17.8	80	nw.	11	5			9						Oversergent Fischer.
Fanoe	29.90	759.4	29.92	759.9	60.3	15.7	85	nnw.			4		2						Overloerer Lauridsen.
Godthaab, Greenland	29.64	752.9	29.69	754.0	34.0	1.1	90	sw.			2		10					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.55	750.5	29.60	751.7	33.6	0.9		n.			2		7.						
Stykkisholm, Iceland	29.89	759.1	29.93	760.2	43.5	6.4	78	w.			4		5						A. O. Thorlacius.
Thorshavn	29.97	761.3	30.00	761.9	47.8	8.8	87	w.	16	7			10					raining	Overloerer Bergh.
Vestervig	29.81	757.2	29.90	759.5	59.9	15.5	77	nw.			4		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.68	753.8			88.2	31.2		n.	8.3	3.7		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.42	747.2	30.05	763.3	64.0	17.8	72	calm			0		k			0	0		M. Labroue, Director.
Alençon, Normal School	29.39	746.4	29.94	760 4	61.5	16.4	94	nw.			1		kn		se.	0.20	5.		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.91	759.7	29.99	761.7	75.2	24	46	nnw.			1		0			0	0		M. Giraud, Director.
Bar-sur-Seine	29.37	746.0	29.91	759.8	66.6	19.2	60	ssw.			1	0	8 kn		sw.	0.102	2.6	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.65	753.0	29.91	759.6	64.8	18.2	63	wnw.			1		8		nnw.	0.020	0.5	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.03	737.3	29.90	759.4	68.9	20.5	72	sw.			2	0	5 kn		ne.	0.055	1.4	thund'r st'm	M. Gobin, Director.
Bordeaux, Observatory	29.76	755.8	30.02	762.4	57.7	14.3	89	sw.			1		10		w.	0.020	0.5	covered	M. Rayet, Director.
Bourges, Normal School	29.37	746.1	29.91	759.8	59.0	15	89	wnw.			1		n		wnw.	0.047	1.2		M. Malet, Director.
Brest, Naval Observatory	29.77	756.1	30.01	762.3	66.9	19.4	77	nnw.			1		7		nnw.	0.031	0.8	hazy	M. de Kermarès, Dir.
Caen, Normal School	29.87	758.7	29.94	760.5	66.4	19.1	79	w.			1		2		w.	0.520	13.2	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.56	750.9	29.87	758.8	61.7	16.5	89	sw.			1		8	sw.	s.	0.236	6.0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.39	746.5	29.89	759.3	61.9	16.6	83	se.			1		10					raining	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.62	727.0	29.95	760.6	64.2	17.9	56	sw.			2		10			0.008	0.2	covered	M. Alluard, Director.
Cluny, Normal School	29.12	739.6	29.95	760.6	64.8	18.2	53	e.			1		6		e.	0.114	2.9		M. de Villemontés, Dir.
Commercy, Normal School	29.10	739 0	29.94	760.4	60.1	15.6	87	ssw.			1		n	ssw.	ssw.	0.323	8.2		Dr. Coulet, Director.
Gap, Normal School	27.47	697.8	29.93	760.3	68.0	20	55	sw.			2	0	1 k		sw.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.89	733.7	29.97	761.2	73.8	23.2	34	nw.			2		3		nw.	0	0		M. Kinn, Director.
Grenoble. Normal School	29.19	741.4	29.94	760.5	70.5	21.4	49	wnw.			1		ks		w.	0.244	6.2		M. Ablard, Director.
Guéret, Normal School	28.42	721.9	29.98	761.5	65.3	18.5	75	sw.			1	0	5 kn		sw.	0.217	5.5	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.85	758.2	30.12	765.0	65.3	18.5	83	nw.					k		nw.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.48	748.8	30.04	763.0	60.4	15.8	83	w.			3		10			0.012	0.3	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.3	29.99	761.8	62.6	17.0	80	sw.			1		10	ne.	nw.	0.512	13.0	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734 7	29.97	761.2	63.1	17.3	57	nnw.			1		5		sw.	0.579	14.7	cloudy	M. André, Director.
Mans, Normal School	29.63	752 6	29.93	760 3	63.0	17.2	88	nw.			1		8		wsw.	0.063	1.6	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.71	754.7	29.98	761.4	73.8	23.2	51	wsw.			2		4		sw.	0	0		M. Stephan, Director.
Montlouis	24.83	630.7	29.67	753.7	51.4	10.8	54	sw.	5.6	2.5			10	e.		0.693	17.6		M. Cave for Dr. Fines.
Montpellier, Normal School	29.91	759.8	30.04	762.9	76.3	24.6	62	w.			2		2		w.	0.04	1.	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.20	741.7	29.97	761.3	60.8	16.0	73	wsw.			1		kn		sw.	0.520	13.2		M. Hasse, Director.
Nantes, Observatory	29.84	757.9	30.00	762.0	64.6	18.1	70	nw.			1–2	0	9 kn; n		wnw.	0.150	3.8		M. Larocque, Director.
Perpignan, Observatory	29.92	759.9	30.03	762.7	68.5	20.3	63	e.	3.8	1.7			10		s.	0.031	0.8		Dr. Fines, Director.
Pic-du-Midi, Summit	21.21	538.6			32.4	0.2		sw.			1				sw.	0.295	7.5		M. Vaussenat, Director.
Privas, Normal School	28.98	736.1	30.02	762.4	69.1	20.6	45	s.			1		10 k		s.	0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.13	638.2			42.8	6.0	96	wsw.			4		10			0.185	4.7		M. Alluard.
Rochefort, Naval Obs'y	29.92	760.0	29.95	760.8	67.6	19.8	71	wsw.			1		10		w.	0.31	8.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.66	753.3	29.87	758.6	69.8	21	91	wsw.			1		2		e.	0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.90	708.7	30.02	762.4	60.3	15.7		calm			0		10		nw.			raining	M. Seger, Director.
Rouen, Normal School	29.87	758.8	29.92	760.0	61.9	16.6	79	n.			3		5	n.		0.110	2.8	raining	M. Moullilot, Dir.
Saint Maur, Observatory	29.76	755.9	29.92	760 0	59.9	15.5	82	ssw.			1		10		w.	0.220	5.6		M. Renou, Director.
Toulouse, Observatory	29.38	746.3	30.11	764.7	65.1	18.4	77	nw.			1		10			0	0	covered	M. Baillaud, Director.
Tours	29.77	756.1	29.95	760.6	67.6	19.8	58	wsw.			2		5	wsw.	w.	0.114	2.9	cloudy	M. de Tastes.
Versailles, Observatory	29.42	747.2	29.91	759.7	62.2	16.8	78	s.			1					0.291	7.4		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.94	760.5	30.09	764.3	59.2	15.1	80	w.	13.9	6.2			10 kn		wsw.	0.201	5.1	covered	M. Cartier, Director.
GERMAN.																			
Ansbach	28.50	723.8	29.90	759.5	65.8	18.8	64	nw.			2		9	nw.		0.094	2.4		Prof. Jnedt.
Bamberg	29.05	737.9	29.89	759.2	63.1	17.3	77	w.			2		7 n		sw.	0.197	5.0		Prof. Dr. Hoh.
Berlin	29.71	754.5	29.84	758.0	73.8	23.2	40	nw.			3		8			0	0		Dr. Sensch.
Breslau	29.34	745.3	29.87	758.7	70.3	21.3	56	nnw.			2		10			0	0		Royal University Obs'y
Carlsruhe	29.49	749.0	29.94	760.4	68.4	20.2	49	sw.			3		6	sw.		0	0		Albert Senz.
Cassel	29.17	740.8	29.88	758.9	60.1	15.6	93	s.			2		10	s.		0.228	5.8		Dr. H. Möhl.
Frankfort-on-the-Main			29.88	759.0	73.9	23.3	52	sw.			1		10			0.051	1.3		Physical Society.
Friedrichshafen	28.55	725.2	29.93	760.1	66.4	19.1	64	sw.			1		6	ssw.		0.028	0.7		Wilhelm, Chief Tel.
Hamburg	29.80	757.0	29.89	759.3	68.0	20.0	61	nw.			2		7			0	0		E. Preller.
Kiel	29.86	758.4	29.87	758.8	64.9	18.3	48	nne.			2		1			0.008	0.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.46	748.2	29.86	758.5	71.4	21.9	46	nw.			1		9			0	0	hazy	H. Leppig, Asst.
Magdeburg	29.66	753.4	29.84	757 9	73.2	22.9	51	wnw.			1		9	sw.		0	0		Weather Observatory
Memel	29.79	756.7	29.84	757.9	64.4	18.0	90	wnw.			2		10 n					thund'r st'm	Issermann.
Munich	28 13	714 5	29.99	761.7	63.5	17.5	85	nw.			2		8	w.		0.469	11.9	raining	Central Station.
Neufahrwasser	29.79	756.6	29.80	757.0	71.1	21.7	60	w.			2		10			0.161	4.1		A. Lothes.
Neustadt, Palatinate	29.33	745.0	29.85	758.3	68.0	20.0	55	calm			0		5			0.012	0.3		Dicknether.
Stuttgart	29.01	736.9	29.89	759.2	60.8	16.0	74	se.			1		1	w.		0.339	8.6	thund'r st'm	Prof. Dr. Schoder.
Wustrow	29.89	759.1	29.91	759.8	59.7	15.4	77	wnw.			5	0	0			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.49	749.1	29.86	758.4	83.3	28.5		sw.			1.5		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.44	747.7	29.48	748.9	89.9	32.2	81	ssw.	24.0	10.7			0			0	0	blue sky	
Deesa	28 97	735 8	29.42	747.2	104.9	40.5	27	sw.	11.0	4.9			0			0	0	blue sky	
Bombay	29.53	749.9	29.56	750.9	84.3	29.1	79	sse.	37.0	16.5			3	s.	s.	0.02	0.5	d. clouds	
Poona, Yarrowda	27.70	705.0	29.59	751.5	81.8	27.7	64	sw.	18.0	8.0			8	w.		0.43	10.9	d. clouds	
Trichinopoly	29.42	747.2	29.69	754.1	93.9	34.4	47	w.	2.0	0.9			5	nne.	nne.	0	0	d. clouds	
Belgaum	27.15	689.6	29.76	754.3	70.7	21.5	92	ssw.	9.0	4.0			10		s.	0.06	1.5	d. clouds	
Lahore	28.60	726 5	29.29	744 0	109.3	42.9	21	calm	0	0			0			0	0	blue sky	
Roorkee	28.46	722.8	29.30	744.2	103.1	39.5	40	calm	0	0			0			0	0		
Agra	28.74	729.9	29.26	743.2	110.1	43.4	17	nw.	6.0	2.7			1			0	0	d. clouds	
Nagpur	28.43	722.2	29.44	747.8	91.9	33.3	46	calm	1.0	0.4			9		nw.	0	0	gloomy	
Jubbulpore	28.10	713.6	29.38	746.3	100.7	38.2	25	s.	8.0	3.6			7		sw.	0	0	d. clouds	
Lucknow	28.98	736.0	29.33	745.1	102.4	39.1	37	nne.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.03	737.2	29.32	744.6	105.7	40.9	26	ne.	2.0	0.9			0			0	0	blue sky	
Patna	29.21	742.0	29.39	746.5	97.1	36.2	44	e.	6.9	3.1			4	e.	e.	0	0	d. clouds	
Hazaribagh	27.44	697.0	29.40	746.8	84.6	29.2	56	s.	6.9	3.1			10			0	0	thund'r st'm	
Cuttack	29.39	746.4	29.47	748.4	88.2	31.2	69	w.	3.0	1.3			10			0	0	overcast	
Calcutta, Alipore	29.42	747.2	29.44	747.8	86.7	30.4	76	sw.	8.0	3.6			9			1.00	25.4	d. clouds	
Dhubri	29.37	746.1	29.49	749.1	81.6	27.6	86	calm	0	0			10			0.08	2.0	overcast	
Chittagong	29.44	747.8	29.53	750.0	81.7	27.6	88	se.	8.7	3.9			3			0	0	blue sky	
Sibsagar	29.16	740.8	29.49	749 1	85.2	29.6	79	sw.	2.0	0.9			10	sw.	sw.	0	0	d. clouds	
Jeypore	28.00	711.3	29.37	745.9	103.4	39.7	24	wnw.	7.5	3.4			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Zanzibar	29.98	761.6	30.01	762.1	82.2	28.2	49	s.	9.8	4.4	.....	.....	1	e.	.....	0	0	d. clouds	
Bellary	28.17	715.5	.....	.....	86.5	30.3	48	sw.	18	8.0	.....	5 ck	4	.....	.....	0	0	gloomy	
ITALIAN.																			
Udine	29.48	748.7	29.87	758.7	72.7	22.6	74	e.	1.3	0.6	.....	.....	9	.....	.....	0.374	9.5	.....	Prof. Giovanni Clodig.
Milan	29.38	746.3	29.88	759.0	74.1	23.4	41	sw.	.....	.....	.....	.....	4	w.	.....	0.039	1.0	.....	Prof. G. V. Schiapparelli.
Padua	29.76	756.0	29.87	758.7	75.4	24.1	47	w.	9.8	4.4	.....	.....	5	w.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.99	736.3	29.87	758.6	71.1	21.7	59	n.	1.8	0.8	.....	.....	6	e.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.74	755.2	29.93	760.1	70.0	21.1	72	se.	12.5	5.6	.....	.....	6	sw.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.00	711.1	29.85	758.3	71.2	21.8	51	sse.	.....	.....	4	.....	4	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.85	758.1	29.89	759.3	73.0	22.8	60	se.	6.3	2.8	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.68	753.9	29.93	760.2	78.3	25.7	58	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.82	757.5	29.91	759.6	73.8	23.2	69	sw.	3.1	1.4	.....	.....	4	wsw.	.....	0	0	.....	Prof. P. Monte.
Rome	29.76	756.0	29.93	760.3	79.5	26.4	50	w.	2.5	1.1	.....	.....	5	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.63	752.7	29.88	758.9	85.3	29.6	25	wsw.	4.9	2.2	.....	.....	2	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.68	738.6	29.93	760.3	85.6	29.8	69	ssw.	3.8	1.7	.....	.....	4	s.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.75	755.6	29.93	760.3	75.2	24.0	63	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.74	755.5	29.99	761.8	72.3	22.4	75	ene.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.86	758.4	29.90	759.5	86.2	30.1	35	ssw.	18.1	8.1	.....	.....	2	e.	.....	0	0	.....	Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.45	748.0	29.96	761.0	74.3	23.5	74	sw.	1.8	0.8	.....	.....	2	.....	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.13	562.2	.....	.....	43.9	6.6	58	sw.	.....	.....	2	.....	5	.....	.....	0.189	4.8	misty	Prof. P. F. Denza.
Valdobbia	22.17	563.2	.....	.....	41.2	5.1	57	n.	.....	.....	4	.....	0	.....	.....	0.138	3.5	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.03	762.7	30.06	763.6	57.3	14.1	92	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. Hattori.
Awomori	30.01	762.2	30.05	763.3	58.0	14.4	86	w.	4.9	2.2	.....	0	0	.....	.....	0	0	clear	K. Ogawa.
Hamamatsu	30.02	762.5	30.05	763.2	63.6	17.6	86	calm	.....	.....	0	2 ck	0	w.	.....	0	0	clear	Y. Sekigawa.
Kanazawa	29.94	760.5	30.04	763.1	59.1	15.1	89	e.	3.9	1.7	.....	1	0	.....	.....	0	0	fair	S. Endo.
Kagoshima	29.96	761.0	29.97	761.3	70.9	21.6	78	calm	.....	.....	0	.....	10 s	.....	.....	0	0	cloudy	G. Miyanobaza.
Kioto	29.83	757.6	30.00	762.0	65.3	18.5	59	nne.	6.4	2.9	.....	9 cs	0	.....	.....	0	0	cloudy	M. Tojima.
Kochi	29.98	761.6	30.00	762.1	68.3	20.2	89	sw.	3.1	1.3	.....	2cs;c	0	nw.	.....	0	0	clear	K. Kusunose.
Miasaka	29.97	761.1	29.99	761.8	71.1	21.7	81	ne.	.....	.....	1	.....	10cs;s	.....	w.	0	0	cloudy	K. Masusaki.
Miyako	29.96	761.0	30.07	763.8	52.0	11.1	93	n.	inap.	inap.	.....	.....	10 s	.....	.....	0.059	1.5	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.76	755.9	29.96	761.0	69.9	21.1	85	calm	0	0	.....	0	0	.....	.....	0	0	misty	S. Takehayashi.
Niigata	30.03	762.7	30.06	763.5	58.5	14.7	89	nne.	3.1	1.3	.....	0	0	.....	.....	0	0	clear	M. Morita.
Nobiru	30.05	763.2	30.06	763.6	58.1	14.5	89	calm	0	0	.....	7 ck	3 s	w.	.....	0	0	overcast	H. Midzushima.
Numazu	30.00	762.0	30.04	762.9	64.3	17.9	82	wsw.	.....	.....	1	3 ck	7 ks	.....	.....	0	0	cloudy	R. Kaneda.
Osaka	29.98	761.4	29.99	761.9	67.7	19.8	75	sw.	3.0	1.3	.....	8 cs	0	.....	.....	0	0	cloudy	H. Omura.
Sakai	30.01	762.2	30.02	762.4	63.4	17.4	75	ne.	.....	.....	2	7 cs	0	w.	.....	0	0	fair	K. Yamawchi.
Tokei Obs'y, Yeddo	29.98	761.5	30.06	763.4	62.4	16.9	77	ese.	7.3	3.2	.....	0	1 s	.....	wnw.	0	0	clear	The Staff.
Wakayama	29.93	760.3	29.98	761.6	66.0	18.9	81	n.	0.7	0.3	.....	9 cs;c	0	w.	.....	0	0	cloudy	K. Sakai.
Shimonoseki	29.84	757.8	29.98	761.5	68.2	20.1	82	calm	.....	.....	0	1 cs	0	.....	.....	0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.05	763.3	74.9	23.8	59	se.	12.0	5.4	.....	0	0	.....	.....	0	0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.68	601.4	29.90	759.4	58.8	14.9	81	sse.	inap.	inap.	.....	2 cs	0	.....	.....	0	0	clear	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.97	761.2	59.0	15.0	75	wnw.	0.9	0.4	.....	5 c	0	se.	.....	0	0	fair	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	761.0	73.5	23.1	81	e.	0.9	0.4	.....	0	1 n	.....	se.	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Sub-series.																			
Altata	.....	.....	.....	.....	74	23.3	76	s.	19.2	8.6	.....	0	2 k	.....	s.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.92	760.0	29.92	760.0	65.1	18.4	.....	nne.	.....	.....	2	.....	.....	.....	.....	0.157	4.0	.....	
Groningen	29.87	758.6	29.92	760.0	61.9	16.6	.....	nne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	29.94	760.5	29.94	760.5	59.0	15.0	.....	ne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.92	760.0	29.92	760.0	62.8	17.1	75	e.	.....	.....	1	.....	.....	.....	.....	0.602	15.3	.....	
Utrecht	29.89	759.2	29.94	760.4	66.7	19.3	64	nne.	.....	.....	2	.....	8	.....	.....	0.004	0.1	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.86	758.4	.....	.....	80.2	26.8	82	nnw.	0	0	.....	.....	8	.....	.....	0	0	.....	Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.88	759.0	29.95	760.6	55.0	12.8	77	nnw.	9	4	.....	.....	1	.....	.....	0	0	.....	
Brono	29.94	760.4	29.98	761.4	53.6	12.0	76	w.	.....	.....	4	.....	9	.....	.....	0	0	.....	
Christiania	29.74	755.4	29.88	759.0	60.0	15.9	83	ene.	4	2	.....	.....	10	.....	.....	0.535	13.6	.....	
Gjæsvær	29.81	757.2	29.84	757.8	65.1	18.4	.....	n.	.....	.....	2	.....	5	.....	.....	.....	.....	.....	
Lodingen	29.85	758.3	29.90	759.5	54.5	12.5	77	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	rain & fog	
PORTUGUESE.																			
Angra, Azores	29.89	759.3	30.05	763.3	64.8	18.2	84	ese.	15.4	6.9	.....	.....	10	.....	.....	0.063	1.6	.....	Dr. J. A. Sampaio.
Campo Major	29.09	738.9	30.08	763.9	67.6	19.8	50	wnw.	6.3	2.8	.....	.....	8	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.15	765.8	30.24	768.0	68.5	20.3	50	sw.	5.6	2.5	.....	.....	3	nw.	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.83	757.6	30.16	766.1	64.6	18.1	55	nnw.	16.8	7.5	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.07	763.7	30.14	765.5	64.8	18.2	88	sse	13.0	5.8	.....	.....	10	.....	.....	0	0	.....	
Saint Paul de Loando	29.72	754.9	29.92	760.0	73.4	23.0	91	w.	.....	.....	1	.....	6	se.	.....	0	0	.....	
San Salvador	28.03	712.0	29.84	757.9	84.4	29.1	40	sse.	.....	.....	3	.....	1	.....	.....	0	0	.....	
Serra da Estrella	25.34	643.5	30.13	765.2	43.9	6.6	85	nw.	14.3	6.4	.....	.....	9	.....	.....	0.004	0.1	foggy	
RUSSIAN.																			
Akmolinski	28.56	725.5	29.58	751.4	72.7	22.6	29	nne.	4	2	.....	0	2 ks	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.07	763.8	30.09	764.3	69.8	21.0	35	nw.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Sseliwerstow
Ashurada	29.95	760.8	29.86	758.4	79.5	26.4	59	nw.	11	5	.....	0	1 k	.....	.....	0	0	.....	
Astrakhan	30.03	762.7	29.95	760.6	83.8	28.8	28	s.	11	5	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	29.97	761.1	29.92	759.9	75.9	24.4	54	s.	9	4	.....	0	0	.....	.....	0	0	.....	
Barnaul	29.15	740.4	29.63	752.0	65.1	18.4	25	nw.	4	2	.....	.....	3	.....	.....	0	0	light clouds	Meteorological Obs'y
Bielosersk	29.55	750.0	30.00	762.0	73.4	23.0	50	nnw.	9	4	.....	0	2 ks	.....	.....	0	0	.....	
Dorpat	29.72	754.8	29.95	760.0	70.0	24.8	47	e.	11	5	.....	0	1 ks	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.84	732.5	29.77	756.1	66.0	18.9	64	wnw.	13	6	.....	.....	10	.....	.....	inap.	inap.	hazy	Meteorological Obs'y
Elissawetgrad	29.41	747.0	29.83	757.6	87.8	31.0	32	ese.	7	3	.....	6 ck	0	.....	.....	.....	.....	light clouds	
Irkutsk	28.21	716.6	29.80	757.0	61.0	16.1	50	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Kasalinsk	29.28	743.7	29.40	746.2	82.4	28.0	30	nw.	18	8	.....	.....	10 k	.....	.....	.....	.....	.....	
Kasan	29.55	750.6	29.82	757.3	61.0	16.1	73	ne.	2	1	.....	.....	10 n	.....	.....	0.047	1.2	raining	Observatory.
Kem	30.00	763.5	30.11	764.8	67.8	19.9	44	ene.	18	8	.....	2 c	0	.....	.....	0	0	.....	
Kertch	29.74	755.4	29.76	756.0	78.3	25.7	45	ene.	7	3	.....	2 c	0	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	29.24	742.7	29.85	758.2	69.8	21.0	68	e.	9	4	.....	.....	10cs;n	.....	.....	0.488	12.4	.....	Observatory.
Koslov	29.34	745.3	29.85	758.3	75.2	24.0	95	n.	11	5	.....	0	5 k	.....	.....	0	0	.....	
Libau	29.74	755.3	29.76	755.9	72.3	22.4	68	sw.	2	1	.....	.....	8	.....	.....	0.106	2.7	thnd'r storm	E. Quaas.
Lugan	29.61	752.2	29.79	756.6	84.0	29.2	35	sse.	4	2	.....	.....	5	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.47	748.4	29.92	759.9	71.1	21.7	47	calm	0	0	.....	0	8 ks	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.76	755.9	29.84	757.8	89.1	31.7	45	ese.	18	8	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.84	758.0	29.93	760.2	54.5	12.5	77	se.	13	6	.....	.....	10	.....	.....	0	0	.....	Iwanow.
Pekin, China	29.79	756.7	29.93	760.3	74.1	23.4	68	se.	2.2	1.0	.....	0	1 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.58	751.4	29.92	759.9	82.0	27.8	12	nw.	2.2	1.0	.....	.....	0	.....	.....	0	0	.....	
Petrozavodsk	29.84	758.0	30.03	762.8	74.1	23.4	45	se.	9	4	.....	0	1 k	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.31	744.4	29.78	759.3	81.0	27.2	53	s.	9	4	.....	4 ck	0	.....	.....	0	0	.....	
Poti	29.76	755.8	29.79	756.6	74.5	23.6	83	s.	4	2	.....	0	0	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
St. Petersburg	29.99	761.8	30.02	762.4	75.0	23.9	45	se.	7	3		0	7 k			0	0		Central Physical Obs'y.
Samarkand	27.49	698.3	29.85	758.3	73.9	23.3	30	w.	7.8	3.5		0	0			0.224	5.7		
Semipalatinsk	29.03	737.3	29.65	753.1	71.8	22.1	40	nw.	4	2			10			0	0		Major Lasarew
Sevastopol	29.51	749.6	29.73	755.1	80.1	26.7	45	sw.	20	9		5 cs	0			0	0		
Staroi Bykhov	29.50	749.2	29.93	760.3	77.0	25.0	62	ne.	7	3			10 n					thund'r st'm	
Tashkend	28.22	716.8	29.81	757.1	76.3	24.6	36	sw.	7	3		0	7 s			0.413	10.5		Terch, A. M.
Tiflis	28.48	723.4	29.83	757.6	78.8	26.0	41	sse.	7	3			10 ks			0	0		Physical Observatory.
Vernoe	27.24	692.0	29.65	753.1	67.3	19.6	56	ne.	9	4		0	6 n			1.220	31.0		
Viatka	29.21	742.0	29.82	757.5	64.6	18.1	74	nw.	2	1			5			0.268	6.8		
Warsaw	29.36	745.8	29.77	756.1	72.0	22.2	72	wsw.	7	3			9 kn			0.035	0.9	heavy clouds	Astronomical Obs'y.
Yenisteisk	29.44	747.8	29.72	754.9	60.4	15.8	37	ssw.	4	2			0			0	0		M. O. Marks.
Scottish.																			
Monach Lt			30.14	765.5	52	11.1	93	nw.			4	3	0	nw.		0	0	light clouds	J. Youngclause
North Unst			30.03	762.7				w.			3	3	2	nw.					Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.95	760.7	30.05	763.3	71.1	21.7	69	ne.	2.0	0.9		0	2			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.04	763.1	30.10	764.6	64.9	18.3	71	nw.	1.8	0.8			10			0.256	6.5	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.10	688.4	30.07	763.7	55.0	12.8	72	n.	3.1	1.4		0	7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.1	29.96	761.0	71.6	22.0	47	sw.	11.9	5.3		0	8			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.82	757.5	29.95	760.8	84.9	29.4	37	s.	3.8	1.7		3	2	nne.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.29	743.9	30.05	763.2	58.6	14.8	82	e.	9.4	4.2		10kn	4 k	e.	e.	0.323	8.2	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.18	741.1	30.07	763.7	60.6	15.9	87	sw.	1.3	0.6			9			0.035	0.9	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	761.0	30.03	762.7	79.3	26.3	81	se.	6.7	3.0		c	k			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.9	29.82	757.4	82.0	27.8	79	sw.	13.2	5.9		8 c	2 ks		sw.	0.039	1.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.3	30.11	764.7	69.6	20.9	62	wnw.	12.4	5.6		0	1		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	30.02	762.4	30.11	764.7	78.8	26.0	92	s.	5.8	2.6			10 kn		s.	0.866	22.0	overcast	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	29.98	761.6	30.02	762.6	71.2	21.8	47	s.			2		2			0	0		
Umea	29.91	759.8	29.97	761.1	75.9	24.4	44	sw.			2		1			0.047	1.2		
Hernosand	30.02	762.4	30.07	763.7	68.0	29.0	46	calm			0		10			0	0		
Stockholm	29.68	753.8	29.85	758.3	58.3	14.6	91	ene.			2		10					raining	
Wisby	29.70	754.4	29.76	755.9	71.2	21.8	63	e.			4		5			0.004	0.1		
Sub-series.																			
Upsala	29.80	756.9	29.89	759.1	60.3	15.7	82	e	6.3	2.8			10		e.	0.177	4.5	raining	S. G. Fineman.
Swiss.																			
Geneva	28.55	725.1	29.93	760.3	68.7	20.4	45	wsw.			6		3			0.161	4.1	cloudy	The Observatory.
Turkish.																			
Constantinople			29.85	758.1	68.9	20.5	85	w.	6	2.5			10		sw.	0.299	7.6		The Observatory.
Valona			30.05	763.2	79.9	26.6		w.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	756.9	80.1	26.7	59	sw.			2		1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.76	699.7			67	19.4	66	e.			1		10 n		nw.			rainy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.70	754.4	29.78	756.4	76	24.4	76	sw.	10	4.5		5 cs	5 s	w.	sw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.17	740.9	29.82	757.4	52	11.1	80	n.	6	2.7			10 s			0.54	13.7	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.85	631.2	29.60	751.8	46	7.8	48	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.92	683.8	29.71	754.6	49	9.4	80	n.	10	4.5			10 s		w.	0.24	6.1	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.79	731.3	29.94	760.5	74.5	23.6	90	s.	9	4.0			10 s			inap.	inap.	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.85	758.4	29.87	758.7	64	17.8	100	sw.	9	4.0			fg.			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	29.83	757.7	30.02	762.5	77.0	25.0	88	s.	1	0.4			10 s		sw.	inap.	inap.	cloudy	John Healy.
Baltimore, Maryland	29.82	757.4	29.87	758.7	72	22.2	84	s.	4	1.8		2 ck	0	sw.		0.65	16.5	clear	Geo. W Felger.
Barnegat City, New Jersey	29.84	757.9	29.86	758.4	64.5	18.1	93	s.	6	2.7			fg			0.04	1.0	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.86	758.4	29.88	758.9	38.4	3.6	88	ne	23	10.3		0	9 n		ne.	0.03	0.8	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.12	714.2	29.66	753.4	58.0	14.4	84	nw.	1	0.4		3 c	0	nw.		inap.	inap.	clear	A. Pritchard.
Benton, Fort, Montana	26.92	683.8	29.70	754.4	52	11.1	80	calm	0	0			10 s			0.45	11.4	cloudy	S. Wheaton.
Billings, Montana	26.55	674.4	29.99	754.1	51	10.6	86	e.	16	7.2			10 s			0.07	1.8	cloudy	T. Gibson.
Bismarck, Dakota	27.84	707.1	29.00	751.8	54	12.2	86	w.	8	3.6		0	0			0.25	6.3	clear	Cyrus Cramer.
Block Island, Rhode Island	29.85	758.2	29.88	758.9	63.5	17.5	100	sw.	14	6.3			fg			0.01	0.3	dense fog	J. T. Elker.
Boise City, Idaho	27.01	686.0	29.79	756.7	55	12.8	64	se.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.67	753.6	29.82	757.4	69.0	20.6	90	sw.	6	2.7			10 s		sw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.69	754.1	29.73	755.1	82.0	27.8	88	se.	5	2.2		0	0			0	0	clear	E. C. Imlay.
Buffalo, New York	29.06	738.1	29.80	756.9	56.5	13.6	96	sw.	12	5.4			fg.			0.19	4.8	dense fog	W. Finn.
Buford, Fort, Dakota	27.68	703.1	29.04	752.8	49	9.4	93	sw.	1	0.4		3 ck	6 s	nw.		0.04	1.0	cloudy	A. Schneider.
Burlington, Vermont	29.44	747.8	29.72	754.9	67.0	19.4	93	s.	7	3.1			10 s		s.	0.12	3.0	cloudy	D. N. Farnell.
Cairo, Illinois	29.30	744.2	29.09	754.1	66.6	19.2	91	se.	8	3.6		3 ck	5 s	sw.	s.	2.57	65.3	cloudy	W. H. Ray.
Cape Henry, Virginia	29.92	760.0	29.94	760.5	76.0	24.4	85	sw.	13	5.8		0	2 k		sw.	0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.85	758.2	29.88	758.9	65.0	18.3	90	s.	0	2.7		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.08	738.6	29.76	755.9	54	12.2	66	nw.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	82	27.8	79	s.	20	8.9		0	4 k		s.	0	0	fair	G. W. Davis.
Charleston, S. Carolina	29.97	761.2	30.02	762.5	82	27.8	85	sw.	0	2.7		6 ck	0	sw.		inap.	inap.	fair	J. H. Smith.
Charlotte, N. Carolina	29.13	739.9	29.96	761.0	76.0	24.4	82	sw.	6	2.7			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.10	739.1	29.91	759.7	71.5	21.9	92	s.	5	2.2			10 ks		sw.	0.09	2.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.92	607.6	29.06	753.4	40.2	4.6	76	nw.	3	1.3		0	0			0.01	0.3	clear	E. McGovern.
Chicago, Illinois	29.09	738.9	29.78	756.4	48.9	9.4	87	n.	5	2.2			10 s			0.02	0.5	cloudy	John Laurens.
Chincoteague, Virginia	29.88	758.9	29.90	759.4	70	21.1	100	s.	8	3.6		0	3 k		sw.	0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.15	740.4	29.80	756.9	70.5	21.4	90	calm	0	0			10 s			0.06	1.5	cloudy	L. Dunne.
Cleveland, Ohio	29.08	738.6	29.81	757.2	62.5	16.9	85	w.	2	0.9			10 s		w.	0.57	14.5	cloudy	J. B. Newlin.
Coleman City, Texas	28.06	712.7	29.81	757.2	60	15.6	93	e.	3	1.3		0	9 n			0.63	16.0	light rain	T. J. Kenan.
Columbus, Ohio	28.96	735.6	29.80	756.9	68	20.0	84	s.	3	1.3			10 s		sw.	0.04	1.0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.96	710.2	29.83	757.7	61.0	16.1	84	ne.	10	4.5		0	5 s			0	0	fair	J. McGlone.
Davenport, Iowa	29.08	738.6	29.72	754.9	58	14.4	93	e.	11	4.9			10 n		e.	0.35	8.9	light rain	R. R. Martin.
Davis, Fort, Texas	25.10	637.5	29.71	754.0	62	16.7	56	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.67	713.0	29.81	757.2	58	14.4	74	sw.	5	2.2		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.10	637.5	29.54	750.3	48	8.9	100	calm	0	0			10 n			0.16	4.1	light rain	F. Willson.
Delaware Breakwater, Del.	29.86	758.4	29.88	758.9	74	23.3	90	sw.	14	6.3		0	hz.			0	0	clear	T. S. Townsend.
Denver, Colorado	24.63	625.6	29.67	753.0	47.0	8.3	77	s.	8	3.6		0	0			0.02	0.5	clear	F. M. Neal.
Des Moines, Iowa	28.87	733.3	29.75	755.6	60	15.6	87	ne.	1	0.4		3 cs	7 ks		ne.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.11	739.4	29.80	756.9	60.0	15.6	75	nw.	1	0.4			10 s			0.09	2.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.26	692.4	29.77	756.1	53	11.7	100	calm	0	0		0	6 ks		w.	0.38	9.7	fair	D. J. Carr.
Dubuque, Iowa	29.07	738.4	29.76	755.9	57.8	14.3	87	e.	6	2.7			10 n		se.	0.18	4.6	light rain	J. Harvey Smith.
Duluth, Minnesota	29.12	739.6	29.85	758.2	44	6.7	83	ne.	3	1.3			10 s		ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.03	737.3	29.82	757.4	80.2	26.8	78	e.	10	4.5			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.99	637.3	29.68	753.9	50	10.0	74	s.	5	2.2		2 c	0	w.		0	0	clear	H. R. Boynton.
Eastport, Maine	29.76	755.9	29.83	757.7	50.0	10.0	93	s.	8	3.6			fg		s.	0	0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.13	689.1	29.80	756.9	50	10.0	66	calm	0	0		0	0			0.03	0.8	clear	W. J. Cundall.
El Paso, Texas	26.10	662.9	29.69	754.1	70.0	21.1	19	w.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.10	739.1	29.82	757.4	62	16.7	87	sw.	4	1.8			10 s		sw.	0.28	7.1	cloudy	C. A. Shaw.
Escanaba, Michigan	29.19	741.4	29.84	757.9	46.5	8.1	93	n.	9	4.0		0	8 s		n.	0.02	0.5	cloudy	George Heathcote.
Galveston, Texas	29.80	756.9	29.84	757.9	77	25.0	90	n.	7	3.1			10 n		n.	0.08	2.0	light rain	E. O'C. Machnerney.
Grand Haven, Michigan	29.15	740.4	29.80	756.9	50.0	13.3	90	ne.	5	2.2			10 s		ne.	0.11	2.8	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.19	639.8	29.73	755.1	64.4	18.0	48	nw.	6	2.7		2 k	0	nw.		0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.97	761.2	29.99	761.7	76	24.4	90	sw.	22	9.8		4 c	0	sw.		0	0	fair	R. M. Crawford.
Helena, Montana	25.50	647.7	29.62	752.3	51	10.0	66	sw.	5	2.2			10 s			0	0	cloudy	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.35	720.1	29.69	754.1	51.9	11.1	75	se.	10	4.5		5 cs	0			0	0	fair	S. W. Glenn.
Indianapolis, Indiana	28.96	735.6	29.74	755.4	65.6	18.7	89	se.	5	2.2			10 n		s.	0.24	6.1	light rain	C. F. R. Wappenhans.
Indianola, Texas	29.77	756.1	29.80	756.9	79.1	26.2	94	se.	7	3.1		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	29.98	761.5	30.02	762.5	79.0	26.1	77	s.	8	3.6		2 cs	3 k	w.		0.35	8.9	fair	J. W. Smith.
Keogh, Fort, Montana	27.18	690.4	29.61	752.1	50	10.0	100	ne.	4	1.8			10 n			0.10	2.5	light rain	W. B. Lamar.
Keokuk, Iowa	29.02	737.1	29.66	753.4	60.0	15.6	93	n.	10	4.5			10 n		n.	0.20	5.1	light rain	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	84.0	28.9	80	se.	14	6.3		0	4 k		se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.96	761.0	29.98	761.5	77	25.0	88	w.	20	8.9		0	4 k		w.	1.19	30.2	fair	H. Mc P. Baldwin
Knoxville, Tennessee	28.90	734.0	29.91	759.7	76.2	24.6	76	sw.	11	4.9		3 k	4 s	sw.	sw.	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.00	736.6	29.76	755.9	60	15.6	65	se.	1	0.4			10 s		e.	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.88	733.5	29.75	755.6	50	10.0	93	nw.	6	2.7			10 s		nw.	0.27	6.9	cloudy	A. W. Browne.
Lewiston, Idaho	28.92	734.6	29.74	755.4	56.5	13.6	72	se.	1	0.4		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.38	746.2	29.70	754.4	73	22.8	84	sw.	6	2.7			10 s			0.02	0.5	cloudy	W. U. Simons.
Los Angeles, California	29.52	749.8	29.91	759.7	61	16.1	93	se.	3	1.3			10 s			0.01	0.3	cloudy	T. S. Collins.
Louisville, Kentucky	29.20	741.7	29.75	755.6	71	21.7	90	s.	11	4.9			10 n		sw.	0.44	11.2	thund'r st'm	L. M. Dey.
Lynchburg, Virginia	29.23	742.4	29.90	759.4	76	24.4	74	sw.	3	1.3		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.20	741.7	29.84	757.9	50.2	10.1	77	ne.	5	2.2			10 s		ne.	0.42	10.7	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.00	762.0	30.01	762.2	76.0	24.4	97	sw.	13	5.8		4 cs	1 ks	n.	s.	0.56	14.2	fair	William Daly.
Maginnis, Fort, Montana	25.29	642.4	29.62	752.3	44	6.7	68	ne.	8	3.6			10 s		ne.	0.12	3.0	cloudy	F. Burke.
Marquette, Michigan	29.17	740.9	29.89	759.2	44	6.7	93	n	2	0.9			10 s		nw.	0.09	2.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.35	745.5	29.68	753.9	77	25.0	90	se.	8	3.6		0	5 s		s.	0.20	5.1	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.06	738.1	29.80	756.9	45	7.2	93	ne.	16	7.2			10 s			inap.	inap.	threatening.	W. Line.
Missoula, Fort, Montana	26.58	675.1	29.84	757.9	53	11.7	74	nw.	4	1.8			9 s			0	0	threatening.	J. H. Young.
Mobile, Alabama	29.84	757.9	29.88	758.9	80.2	26.8	89	s.	14	6.3			10 s		s.	0.22	5.6	cloudy	C. A. Read.
Montgomery, Alabama	29.63	752.6	29.86	758.4	78	25.6	88	se.	5	2.2		8ck;hz	0	w.		0.01	0.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.72	729.5	29.69	754.1	50	10.0	77	s.	6	2.7			10 s			0	0	cloudy	H. White.
Mt. Washington, N. H.	23.73	602.7	29.85	758.2	51.6	10.9	100	w.	48	21.5			10n;fg		w.	0.10	2.5	light rain	S. W. Beall.
Nashville, Tennessee	29.21	741.9	29.77	756.1	75.5	24.2	83	se.	8	3.6		6 cs	4 ks	sw.	s.	0.04	1.0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.72	754.9	29.83	757.7	64.5	18.1	100	s.	4	1.8			fg.			0.03	0.8	dense fog	J. H. Sherman.
New London, Connecticut	29.80	756.9	29.86	758.4	69	20.6	90	s.	3	1.3			10 s			0.08	2.0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.81	757.2	29.86	758.4	78.0	25.6	90	s.	9	4.0			10 n		s.	1.22	31.0	heavy rain	M. Herman.
New York, New York	29.69	754.1	29.86	758.4	70	21.1	93	se.	1	0.4			9s;fg		s.	0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	29.90	759.4	29.93	760.2	78.5	25.8	89	sw.	10	4.5		2 cs	2 s	w.	sw.	0	0	fair	Wm. Davis.
North Platte, Nebraska	26.85	682.0	29.65	753.1	54.6	12.6	84	w.	6	2.7		0	0			0.02	0.5	clear	E. F. Brady.
Olympia, Washington T'y.	29.92	760.0	29.96	761.0	54.0	12.2	74	w.	4	1.8			10 s			inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	28.63	727.2	29.77	756.1	56.0	13.3	85	nw.	1	0.4		6 c	0			0	0	fair	A. Pollak.
Ooglaamie, Alaska	30.20	767.1	30.22	767.6	27.3	— 2.6	96	se	13	5.8		5 k	3 s	s.		0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.43	747.5	29.75	755.6	61.0	16.1	87	nw.	6	2.7			10s;fg		w.	0.61	15.5	cloudy	J. G. Linsley.
Palestine, Texas	29.30	744.2	29.84	757.9	68.0	20.0	97	nw.	2	0.9			10 n		nw.	1.16	29.5	thund'r st'm	J. W. Byram.
Pensacola, Florida	29.86	758.4	29.89	759.2	79.7	26.5	93	s.	15	6.7			10 s		s.	0.01	0.3	cloudy	M. McGauran.
Philadelphia, Pa.	29.78	756.4	29.88	758.9	76	24.4	90	sw	4	1.8		0	2 ks		sw.	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	29.58	751.3	16	— 8.9	87	n.	16	7.2		1 c	0			0.03	0.8	clear	H. Hall.
Pioche, Nevada	23.98	609.1	29.78	756.4	64.0	17.8	36	nw.	1	0.4		0	0			0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.05	737.9	29.84	757.9	69.5	20.8	84	sw	2	0.9		0	6 k		sw.	0.06	1.5	fair	W. A. Reid.
Poplar River, Montana	27.57	700.3	29.67	753.6				sw.			1		10 s			0	0	cloudy	W. D. Maxwell.
Port Huron, Michigan	29.14	740.1	29.81	757.2	50.0	10.0	87	ne.	6	2.7			10 s			0.23	5.8	cloudy	M. H. Perry
Portland, Maine	29.74	755.4	29.79	756.7	63	17.2	90	s.	12	5.4			10 s			0	0	cloudy	W. W. Eichelberger
Portland, Oregon	29.88	758.9	29.95	760.7	58.0	14.4	75	nw.	2	0.9		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					76	24.4	85	sw.	16	7.2		3 c	hz.			0.02	0.5	clear	F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.74	755.4	55.0	12.8	40	sw.	1	0.4		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.83	757.7	29.86	758.4	67	19.4	92	s.	8	3.6			fg.			0	0	dense fog	C. N. Kitchel.
Punta Rassa, Florida	30.01	762.2	30.02	762.5	79	26.1	88	se.	11	4.9		0	2 k		s.	0	0	clear	W. J. Evans.
Red Bluff, California	29.33	745.0	29.68	753.9	76	24.4	56	s.	2	0.9		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.12	739.6	29.77	756.1	66	18.9	90	w.	13	5.8			10k;hz		w.	0.50	12.7	cloudy	E. W. McGann.
Roseburg, Oregon	29.40	746.7	29.95	760.7	56.7	13.7	79	calm	0	0		1 cs	0	w.		0	0	clear	J. J. Nanry.
Sacramento, California	29.60	751.8	29.67	753.6	67.0	19.4	73	s.	8	3.6		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.08	738.6	29.67	753.6	66.5	19.2	100	e.	8	3.6			10 n			1.20	30.5	thund'r st'm	J. H. Weber.
St. Michael, Fort, Alaska	30.25	768.3	30.29	769.4	39	3.9	89	n.	3	1.3		0	8 s		n.	inap.	inap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.92	734.6	29.76	755.9	47.5	8.6	86	ne.	3	1.3		2 cs	6 s	n.	ne.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.79	731.3	29.64	752.8	48	8.9	93	s.	11	4.9		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.50	647.7	29.72	754.9	61.1	16.2	38	calm	0	0		6 k	0	w.		0	0	fair	J. Craig.
San Antonio, Texas	29.15	740.4	29.83	757.7	74	23.3	82	ne.	7	3.1			8 s			0	0	cloudy	J. H. Davis.
San Diego, California	29.82	757.4	29.89	759.2	62.0	16.7	81	sw.	7	3.1			10 s			0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	29.82	757.4	29.85	758.2	73.0	22.8	84	s.	5	2.2		5 k	0	s.		0	0	fair	B. A. Blundon.
Sanford, Florida	29.99	761.7			79.5	26.4	88	s.	4	1.8		2 c	3 k		sw.	1.39	35.3	fair	J. B. Marbury.
San Francisco, California	29.71	754.6	29.78	756.4	58	14.4	90	w.	9	4.0			fg.		s.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.19	589.0	29.70	754.4	45	7.2	51	se.	3	1.3		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.95	760.7	30.04	763.0	79	26.1	85	sw	2	0.9		5 ck	0	sw.		0.25	6.3	fair	H. W. Ford.
Shaw, Fort, Montana	26.10	662.9	29.67	753.6	49	9.4	80	nw.	2	0.9			10 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.55	750.6	29.78	756.4	71.0	21.7	84	w.	9	4.0			10 s		w.	0.28	7.1	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.63	727.2	29.83	757.7	57.5	14.2	85	n.	2	0.9		0	0			0.09	2.3	clear	W. M. Mattingly.
Sitka, Alaska	30.15	765.8	30.24	767.3	46.7	8.2	73	e.	4	1.8		0	4 k		e.	0.38	9.7	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.28	743.7	29.74	755.4	64.2	17.9	93	nw.	6	3.0			10 s		nw.	0.85	21.0	cloudy	J. B. Campbell.
Smithville North Carolina	29.98	761.5	30.02	762.5	78	25.6	90	sw.	8	3.6		4 k	0	sw.		0.01	0.3	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.71	703.8	29.75	755.6	55	12.8	86	n.	10	4.5			10 k			0	0	cloudy	John F. Hemenway.
Springfield, Illinois	29.01	736.8	29.68	753.9	62	16.7	93	e.	5	2.2			10 s		ne.	0.28	7.1	cloudy	T. B. Jennings.
Starkville, Miss.	29.37	740.0	29.84	757.9	77	25.0	90	se.	12	5.4			10 s		se.	0.20	5.1	cloudy	C. Dill.
Stockton, Fort, Texas	26.88	682.7	29.80	756.9	65	18.3	78	se.	6	2.7		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.10	688.3	29.73	755.1	59	15.0	49	e			1	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.10	739.1	29.78	756.4	66	18.9	73	s.	2	0.9		5 cs	5 s	w.	w	0.01	0.3	cloudy	A. Buell.
Tucson, Arizona	27.42	696.5	29.72	754.9	72	22.2	48	e.	4	1.8		0	0			0	0	clear	J. L. Whitesides.
Unalaska, Alaska	30.11	764.8	30.13	765.3	43	6.1	92	sw.	2	0.9			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					60	15.6	41	s.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.58	751.3	29.83	757.7	74.6	23.7	90	sw.	0	2.7			10 n		sw.	0.68	17.3	light rain	James Kenealy.
Visalia, California	29.31	744.5	29.68	753.9	69.6	20.9	60	s.	4	1.8		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.31	617.5	29.69	754.1	41.5	5.3	92	sw.	2	0.9		1 k	0			0.06	1.5	clear	T. M. Ambler.
Washington, D. C.	29.77	756.1	29.88	758.9	75.4	24.1	78	sw.	5	2.2		2 k	0	sw.		0.01	0.3	clear	B. M. Purssell.
West Las Animas, Colorado	25.93	658.6	29.70	754.4	49	9.4	86	w.	10	4.5		0	0			0.04	1.0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.25	742.9	29.85	758.2	72.8	22.7	76	se.	1	0.4		3 k	6 ks		sw.	inap.	inap.	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.96	761.0	30.01	762.2	77.0	25.0	90	sw.	8	3.6			10 s		sw.	0.45	11.4	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.52	648.2	29.78	756.4	51	10.6	61	calm	0	0		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.48	723.4	29.76	755.9	54	12.2	74	calm	0	0		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.56	750.8	29.70	754.4	74.6	23.7	84	se.	7	3.1		0	hz.			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.03	762.7	82	27.8	68	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	78.5	25.8	89	e.			2	4 c	5 k	e.	e	0.850	21.6	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761.5	76	24.4	94	calm			0	3 c	5 ks	calm	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					76	24.4	92	ne.			1		8 ks			0.33	8.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	29.72	754.9	29.78	756.4	39.5	4.2	95	w.	14	6.3		2 c	0	w.		0.70	17.8	fair	Fortesque & Wood.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 44° 52′, E. 13° 49′	29.91	759.7	74	23.3	68	wsw.			1		1	wsw.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.20	767.1	76	24.4	82	sse.			2		5	sse.						d. clouds.
H. M. S. Flamingo, N. 46° 10′, W. 52° 00′	30.07	763.8	45	7.2	92	sw.			1							2	con.	foggy.
H. M. S. Gannet, N. 21° 20′, W. 22° 50′	30 11	764.8	73	22.8	72	nne.			5		2					3	ne.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.85	758.2	76	24.4	95	wnw.			3		2							d. clouds
H. M. S. Minotaur, Vigo Bay, Spain	30.12	765.0	62	16.7	80	sw.			2		7	wsw.						d. clouds.
H M. S. Opal, N. 13° 00′, W. 22° 14′	30.04	763 0	76	24.4	86	ne.			3		0					4	nne.	blue sky.
H. M. S. Satellite, N. 36° 13′, W. 12° 52′	30.24	768.1	66.5	19.2	71	wnw.			3		4	wnw.				4	wsw.	d. clouds.
H. M. S. Tyne, N. 8° 27′ W. 33° 41′	30.08	764.0	79	26.1	86	ene.			4		4	ene.				3	ene.	d. clouds
H. M. S. Thetis, N. 20° 48′, W. 23° 24′	30.16	766.1	72	22.2	76	nne.			4		4	nne.				3	nne.	d. clouds.
H. M. S. Tenedos, St. Johns, N.F	30.03	762.7	52	11.1	86	ssw.			1		8	w.						d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	29.77	756.1	65	18.3	89	se.	6	2.7			10		sw.	0	0			cloudy.
U. S. S. Lancaster, Kronstadt, Russia	30.08	764.0	79	26.1	58	ese.			1		2		se.			sm'h		fair.
U. S. S. Nipsic, Tompkinsville, Staten Island, N.Y*	29.79	756.7	67	19.4	100	se.			1		10							foggy
U. S. S. Portsmouth, Conimicut, R.I	29.92	760.0	62	16.7	100	ssw.			2									foggy.
U. S. S. Powhatan, Port Royal, S. C	30.00	762.0	80	26.7	91	ssw.			2		8		w.					cloudy.
U. S. S. Quinnebaug, N. 2° 20′, E. 4° 23′	29.97	761.2	81	27.2	74	s.			3		2		s.			sm'h	ssw.	fair.
U. S. S. Saratoga, Poughkeepsie, N. Y	29.85	758.2	72	22.2	95	s.			1-2		8?		s.	0	0	sm'h		clear?
U. S. S. Vandalia, N. 34° 44′, W. 69° 25′	30.16	766.1	73	22.8	95	sse			4		5					sm'h		fair.
S. S. Inchkeith, N. 46° 01′, W. 22° 54′	30.32	770.1	60	15.6	82	se.			3		3							d. clouds.
H. P. M. S. Rio Lima, Porto Praya, Cape Verd Islands			77.0	25.0	84	ne.			3		0					3	se.	blue sky.
S. S. Illinois, N. 38° 58′, W. 72° 23′	29.96	761.0	61	16.1		ssw.			4									foggy.
S. S. Lord Gough, N. 46° 02′. W. 30° 58′	30.06	763.5	61	16.1		sse.			3					0	0	sm'h		foggy.
S. S. Ohio, N. 51° 24′, W. 9° 20′†	30.17	766.3	57	13.9		nne.			2		4		w.	0	0	sm'h	n.	clear.
S. S Pennsylvania, N. 38° 56′. W. 68° 50′ †	30.03	762.7	73	22.8		wsw.			2		6		sw.	5 h'r	5 h'r			cloudy.
S. S. British Princess, Queenstown, Ireland			60	15.6		nnw.			2		2		w.	0	0			clear.
S. S. Circassian, N. 54° 48′, W. 19° 57′	30.29	769.4	53	11.7	80	wsw.			2		4					3	w.	d. clouds.
S. S. Grecian, N. 46° 45′, W. 56° 40′	30.00	762.0	43	6.1	92	sw.			1		8		sw.	0	0	sm'h		cloudy.
S. S. Nova Scotian, N. 51° 19′, W. 36° 27′	29.92	760.0	50	10.0		w.			3		8		sw.			long	sw.	hazy.
S. S. Scandinavian, N. 52° 25′. W. 16° 29′	30.28	769.1	57	13.9		calm			0		1					sm'h		blue sky.
S. S. Prussian, Glasgow, Scotland	29.94	760.5	58	14.4		nnw.			5		8		nw.	0	0			cloudy.
S. S. Jason, N. 43° 43′, W. 44° 57′ †	30.07	763.8	51.8	11.0		nw			3-4		6 k					3	nw.	foggy.
S. S. Alvo, Port au Prince, Hayti. W.I*	29.97	761.2	83	28.3		se.			2-3		2		calm	3 h'r	3 h'r			fine.
S. S. Assyria, N. 50° 02′ W. 10° 48′	30.16	766 1	57	13.9		n.			5		3		n	0	0	mod.	n.	fine.
S. S. Furnesia, Liverpool, Eng †	29.90	759.4	65.5	18.6	97	nnw.			2		2		n.	0	0			clear
S. S. Elysia, N. 52° 28′ W. 24° 20′	30.18	766.6	55	12.8		sse.			4		9		s.	0	0	sli't	sse.	cloudy.
S. S. Carroll, N. 43° 11′, W. 65° 52′			49	9.4	?	ssw.			2		10		ssw.	0	0	long	s.	dense fog.
S. S. Llandaff City, N. 51° 04′ W. 13° 20′			55	12.8		nnw.			5		2			0	0	sm'h		clear.
S. S. Marathon, N. 37° 27′, E. 6° 57′	30.05	763.3	65	18.3		w.			1		1		w.	0	0	sm'h	w.	fine.
S. S. Pavonia, N. 42° 44′, W. 46° 06′	29.92	760.0	61	16.1	88	nne.			6		10		ne.	0	0	sli't	nne.	cloudy.
S. S. Scythia, N. 41° 38′, W. 61° 00′	30.02	762.5	69	20.6	100	ene.			1		3		calm	1 h'r	1 h'r			clear.
S. S. Colina, Quebec, Canada†	29.74	755.4				ne.			4		6		ne.	0	0	chop	ne.	
S. S. Rhinwindda, N. 46° 20′ W. 47° 47′			40	4.4		nne.			3		8		ne.	0	0	sm'h		foggy.
S. S. Ville de Marseilles, N 47° 12′, W. 4° 45′ *	29.97	761.2	61	16.1		n.			3		7		nne.	sh'rs	sh'rs	long	n.	cloudy.
S. S. Abyssinia, N. 44° 23′, W. 43° 10′	29.96	761.0	61	16.1	100	ne.			2		10		ne.	4 h'r	4 h'r	sm'h		foggy.
S. S. Wisconsin, N. 51° 37′ W. 8° 27′	30.05	763.3	54	12.2		n.			3		1		nnw.	0	0	sm'h		fair.
S. S. Bohemia, N. 40° 06′, W. 68° 34′						ese.			3		10			0	0	sm'h		foggy.
S. S. Gellert, N. 40° 46′, W. 63° 40′	29.95	760.7	74	23.3	86	sw.			2		6		nw.	0	0	sm'h	w.	cloudy.
S. S. Rugia, N. 53° 51′, E. 9° 18′	29.92	760 0	72	22.2		nw.			5									
S. S. Silesia, N. 47° 48′, W. 16° 20′	30.31	769.9	60.0	15.6		ene.			3		4		ene.	0	0			fair.
S. S. Wieland, N. 49° 43′, W. 10° 20′	30.23	767.8				ne.			3		8		ne.	0	0	mod.	ne.	fair.
S. S. City of Berlin, N. 42° 31′, W. 51° 54′	30.12	765.0	52	11.1	86	calm			0		10		n.	0	0	sli't	ne	dense fog.
S. S. City of Paris, N. 40° 18′, W. 67° 56′*†	29.89	759.2				calm			0					0	0	sm'h		foggy.
S. S. Bulgarian, N. 43° 48′, W. 54° 12′ *	30.17	766.3				calm			0		fg							dense fog.
S. S. Hevelius, N. 23° 15′, W. 23° 10′			72	22.2		ne.			4		5		nne.	0	0	sm'h		fair.
S. S. Ptolemy, N. 33° —′, W. 17° —′	30.26	768.6	67.7	19.8	57	e.			5	c	3 k		n.	0	0	3	n.	clear.
S. S. Colorado, off Highlands, N.J †	29.85	758.2	61	16.1		sse.			2		fg.			0	0			foggy
S. S. Chalmette, N. 30° 45′, W. 79° 45′ †	30.17	766.3	79	26.1		ssw.			3		8		nw.	1 h'r	1 h'r	mod.	se.	cloudy.
S. S. Hermod. N. 25° 50′, W. 61° 10′†	30.28	769.1	73	22.8		ene.			2		2		ne.	0	0	sm'h	ne.	clear.
S. S. Alleghany, Nantucket Shoals, Mass †	29.90	759.4	60	15.6		ssw.			2		0					light	sw.	foggy.
S. S. City of Merida, N. 19° 40′, W. 90° 20′†	29.85	758.2	82	27.8		se.			2		10		se.	0	0	light	e.	cloudy.
S. S. City of Washington, N. 25° 12′ W. 80° 00′ †	30.03	762.7	80	26.7		se.			4		2		se.	0	0	sm'h		clear.
S. S. Denmark, N. 40° 55′, W 56° 36′†	30.12	765.0	64	17.8		calm			0		2			0	0	sm'h		clear
S. S. England, N. 40° 27′, W. 68° 08′	29.94	760.5	60	15.6		s.			3		fg.		s.	rain	rain	mod.	sw.	dense fog.
S. S. Erin, N. 46° 21′ W. 32° 31′	30.05	763.3	62	16.7		sse.			3		6		se.	6 h'r	6 h'r	mod.	ene.	hazy.
S. S. Greece, N. 48° 42′, W. 21° 32′	30.13	765.3	58	14.4	82	w.			2		6		nnw.	1 h'r	1 h'r	light	nnw.	fair.
S. S. Helvetia, N. 49° 33′, W. 28° 00′	30.14	765.5	59	15.0	94	sw.			4		10		wsw.	1 h'r	1 h'r	sli't	sw.	overcast.
S. S. The Queen, N. 48° 26′, W. 27° 47′	30.14	765.5	60	15.6	82	ssw.			5		10		wsw.			sli't	sw.	overcast.
S. S. Braunschweig, N. 40° 43′, W. 61° 18′	30.05	763.3	72.0	22.2	76	ese.			3		10		ese.	0	0	mod.	se.	cloudy.
S. S. Fulda, N. 47° 56′, W. 27° 57′	30.16	766.1	59	15.0	88	sse.			4		7		sse.	0	0	mod.	sw.	fair.
S. S. Habsburg, N. 46° 08′, W. 37° 00′	29.98	761.5				s.			2		8		s.	1 h'r	1 h'r	sm'h	s.	misty.
S. S. Hohenstaufen, N. 38° 41′, W. 66° 18′	30.01	762.2				wsw.			3		8		wsw.	8 h'r	8 h'r	mod.	wsw.	light haze.
S. S. Hermann, N. 49° 04′, W. 18° 58′	30.26	768.6	68	20.0	79	wsw.			1		9		wsw.	1 h'r	1 h'r	mod.	se.	cloudy.
S. S. Main, N. 42° 04′, W. 47° 27′	30.04	763.0	54	12.2		nne.			4-5		8		nne.			mod.	ne.	cloudy.
S. S. Strassburg, N. 47° 28′, W. 26° 58′	30.22	767.6	62.5	16.9	86	se.			3		8		se.	6 h'r	6 h'r	3	se.	clearing.
S. S. City of Augusta, N. 37° 18, W. 74° 40′						sw.			6		10		sw.	0	0	sm'h		foggy.
S. S. Colon, New York, N. Y †	29.91	759.7	70	21.1		se.			2					2 h'r	2 h'r			cloudy.
S. S. Muriel, Barbadoes, W. I	30.11	764.8	80	26.7		e.			3		10		e.	3 h'r	3 h'r	sm'h		overcast.
S. S. Orinoco, New York, N. Y †	29.92	760.0	69	20.6		sw.			3		fg.			0	0	light	s.	hazy.
S. S. Nederland, N. 50° 33′, W. 0° 32′			61	16.1		e.			1		8		e.	1 h'r	1 h'r	sm'h		hazy.
S. S. Rhynland, Antwerp Belgium	29.99	761.7	58	14.4	94	var.			4		5		ne.	0	0			squally.
S. S. Pennland, N. 46° 33′, W. 29° 04′	30.16	766.1	58	14.4	88	sse.			5		9		se.			mod.	se.	hazy.
S. S. Waesland, N. 41° 00′, W. 50° 03′	30.13	765.3	58	14.4		n.			4		4		nw.	0	0	mod.	nne.	fair.
S. S. P. Caland, Jersey City, N. J			71.8	22.1	95	se.			1		9		ssw.					hazy.
S. S. Rotterdam, N. 49° 27′, W. 14° 32′	30.31	769.9	63	17.2	72	nne.			4		2		nne.	0	0	3	nne.	clear.
S. S. Schiedam, N. 50° 40′ E. 0° 12′	29.92	760.0	64	17.8	94	e.			3		5			0	0	sm'h		fair
S. S. W. A Scholten, Rotterdam, Holland	29.91	759 7	65.0	18.3	89	ne.			4		8		e.	10 h'r	10 h'r			raining.
S. S. Belize, N. 31° 43′, W 73° 12′*†	30.22	767.6	76	24.4		sw.			4		3		sw.	2 h'r	2 h'r	mod.	sw.	clear
S. S. Caracas, Curacoa, W.I†	30.03	762.7	82	27.8	91	ese.			5				ese.	½ h'r	½ hr	mod.	se.	showery.
S. S. State of Georgia, N 54° 55′, W. 14° 36′	30.33	770.4	59	15.0		wnw.			3		3		ne	0	0	sm'h		clear.
S. S. State of Indiana, N. 45° 12′, W. 55° 36′*†	29.95	760.7	50	10.0		sse.			1		0			0	0	sm'h		clear.
S. S. State of Nebraska, N. 40° 49′, W. 55° 25′*†	30.06	763.5	62	16.7					1		8		w.	0	0	sm'h		hazy.
S. S. Thingvalla, N. 43° 04′, W. 46° 59′ †	30.06	763.5	47.3	8.5		w.			3		10			4 h'r	4 h'r	mod.	w.	overcast.
S. S. Toledo, N. 41° 54′ W. 9° 30′ *†	30.22	767.6	66	18.9		n.			3		2		n.	0	0	hv'y	wsw.	clear.
S. S. Romano, N 45° 31′, W. 32° 09′ †	30.06	763.5	58	14.4		ssw.			4		8		ssw.	0	0	mod.	s.	cloudy.
S. S. Dominion, N. 57° 04′, W. 19° 45′*†	30.20	767.1	52	11.1		sw.			3		10		wsw.			sm'h	wsw.	cloudy.
S. S. Lake Huron, N. 52° 50′, W. 16° 34′	30.24	768.1	56	13.3		wnw.			2		2		wnw.	0	0	sm'h	wnw.	clear.
S. S. Lake Manitoban, N. 47° 56′, W. 60° 05′	29.95	760.7	40	4.4		ene.			3		10			2 h'r	2 h'r	sm'h		overcast.
S. S. Daniel Steinmann, N. 50° 20′ W. 33° 40′†	29.91	759.7	60	15.6		s.			2		0			0	0	long	s.	dense fog.
S. S. Plantyn, N. 49° —′, W. 16° 55′									2		3		ssw.	0	0	sm'h	sw.	clear.
S. S. Aries, N. 40° 05′, W. 73° 45′*†	29.80	756.9				ssw.			5		fg.			0	0	long	se.	dense fog.
S. S. Norman, N. 39° 56′, W. 75° 08′	29.78	756.4				sw.			5		0			0	0			clear.
S. S. Saxon, N. 41° 25′, W. 70° 45′ †	29.90	759.4				ssw.			0		10							dense fog.
S. S. Britannic, N. 40° 40′, W. 69° 55′ †	29.97	761.2	60	15.6		sw.			2		10		sw	0	0	mod.	sw.	misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S Celtic, N. 46° 35′, W. 40° 45′†	29.92	760.0	56	13.3		var.			1		0			0	0	sm'h		clear.
S. S. Antonio Lopez, Cadiz, Spain	30.12	765.0	68	20.0	77	wnw.			3		1			0	0			clear.
Schr. Abbie H. Gheen, N. 34° 50′, W. 76° 40′†	30.18	766.6	80	26.7		ssw.			5							h'vy	se.	clear.
Bk. Aquidneck, N. 34° 07′, W. 55° 03′*†	30.20	767.1				wnw.			2		0			0	0	light	nw.	clear.
Bg. Alcira, N. 36° 49′, W. 74° 03′	29.98	761.5	74	23.3		s.			4		fg.		s.			long	s.	foggy.
Schr. Anna A. Holton, N. 36° 44′, W. 74° 35′ *†	30.04	763.0	74	23.3		ssw.			3		5		s.	0	0	mod.	s.	hazy.
Schr. Authur Burton, N. 37° 00′, W. 74° 26′†	29.95	760.7				ssw.			2		2		ssw.	0	0	mod.	ssw.	fine.
Bk. Aureola, N. 40° 42′, W. 39° 17†	29.90	759.4	76	24.4		ese.			1		2		calm	0	0	h'vy	e.	clear.
Bk. Arda, Sackville, N. B.						w.			2		5		wsw.	0	0			fair.
Bk. Alba, N. 42° 30′, W. 59° 29′ *†	30.08	764.0	63.5	17.5		sse.			3					0	0			
Bg. Belle of the Bay, N. 29° 07′, W. 93° 03′†	29.85	758.2				s.			5		4		sse.	light	light	short	sse.	fair.
Sch. C. R. Flint, N. 23° 20′, W. 92° 44′†	29.82	757.4	81	27.2		sse.			4		5		sse.	0	0	short	sse.	fair.
Bk. Childwall, N. 48° 28′, W. 8° 47′			58	14.4		n.			5		5		n.	0	0	sm'h		hazy.
Bk. Cato, Bodöe, Norway *†	29.98	761.5				nne.			1									
S Criterion, N. 44° 37′, W. 47° 00′*†	30.00	762.0				nne.			3		10		nne.	sh'rs	sh'rs	light	ene.	foggy.
Schr. Clotilde, Tampico Bar, Mexico *†	29.72	754.9	84	28.9		calm			0		0			0	0	sm'h	ese.	clear.
S. David Stewart, N. 6° 53′, W. 27° 33′†	29.85	758.2				ne.			6		hz			0	0	mod.	ne.	
S. S. D. J. Foley, N. 35° 15′, W. 75° 00′*†	30.00	762.0	79	26.1	86	sw.			4		3		sw.	6 h'r	6 h'r	sm'h		fair.
Bkt. David A. Preston, N. 19° 12′, W. 74° 45′						e.			3		2		e.	0	0	sm'h		
S. E. J. Spicer, N. 45° 57′, W. 36° 46′	29.96	761.0	61	16.1	94	ssw.			3		7		sw.	0	0	mod.	s.	fair.
Bk. E. D. Bigelow, N. 52° 00′, W. 6° 20′ *†	30.00	762.0	64	17.8		calm			0		3		ssw.	0	0	sm'h		fair.
U. S. Fish Com. S. S. Fish Hawk, Hampton Roads, Va†	29.90	759.4	70	24.4	95	ssw.			4		5		sw.	0	0			fair.
Schr. F. E. Waters, N. 36° 50′, W. 75° 50′*†	30.00	762.0				sw.			1				sw.	0	0	sm'h	s.	fair.
Bgt. George, N. 30° 53′, W. 64° 49′ *†	30.22	767.6	75	23.9		ssw.			2		2		sw.	0	0	mod.	sse.	fair.
Bk. Galeon, N. 22° 10′, W. 87° 20′†	29.91	759.7	80	26.7		se.			4		3		se.	0	0		e.	misty.
Bk. Heinrich & Tonio, N. 45° 50′, W. 24° 17′†	30.24	768.1	73	22.8		s.			3		3		sw.	0	0	light	nw.	fair.
S Hedwig, N. 37° 02′, E. 12° 00′	30.02	762.5	71.6	22.0	89	nnw.			1		1		nnw.	0	0	sm'h	se.	
Bk. Hattie G. McFarland, Port Royal, S. C †	30.04	763.0	78	25.6		wsw.			2		4		w.	6 h'r	6 h'r			
Bk. Horace Scudder, N. 5° 19′, W. 36° 26′ *†	30.10	764.5	82	27.8		s.			1		8		se.	5 h'r	5 h'r	long	e.	fine.
Schr. Isabel Alberto, N. 39° 14′, W. 73° 24′ †	29.94	760.5				sw.			2		fg.			0	0	light	sse.	foggy.
Bk. Johanne, N. 43° 52′, W. 16° 32′*†	30.25	768.3	62	16.7		n.			2		2		nne.	2 h'r	2 h'r	sm'h		clear.
Schr. John L. Thomas, N. 16° 10′, W. 83° 44′*†	30.02	762.5				sse.			3		2		s.	0	0	mod.	e.	fair.
Bg. John Wesley, N. 31° 14′, W. 41° 43′*†	30.00	762.0	76	24.4		wnw.			4		3		wnw.	3½h'r	3½h'r	long	nw.	fair.
Schr. Jennie N. Huddell, Charleston, S. C.†	30.03	762.7	82	27.8	91	se.			1		2		wsw.	0	0			fair.
S. J. W. Gildemeister, N. 30° 29′, W. 57° 00′	30.09	764.3	73.4	23	87	nw.			4–5		3 k		var.	0	0	4	w.	d. clouds.
Bkt. Kryolith, Ivigtut, Greenland *†	29.76	755.9				var.			1		10			0	0			foggy.
Bg. L. & W. Armstrong, N. 31° 55′, W. 02° 15′*†	30.36	771.1				sw.			2		1		ssw.	0	0	sm'h	nw.	fine.
Light House Tender Laurel, Key West, Fla†	30.02	762.5	84	28.9		sse.			4		3		sse.	0	0			clear.
Bg. Lilian, N. 38° 36′, W. 75° 00′†	29.85	758.2	09	20.6		sw.			2		fg.			0	0	mod.	sse.	foggy.
Bk. Louise Adelaide, Matanzas, Cuba, W. I†	30.02	762.5	78	25.6		calm			0					1 h'r	1 h'r			fair.
Bk. Milo, N. 44° 45′, W. 43° 40′†	29.95	760.7				nne.			6				n.			small	nne.	overcast.
S. S. Madrid, N. 35° 55′, W. 12° 27′†	30.23	767.8	64	17.8	83	n.			4		0			0	0	mod.	nnw.	clear.
Schr. Minnie A. Bonsall, Bridgeport, Conn †	29.89	759.2	78	25.6		s			2					4 h'r	4 h'r			cloudy.
Bk. Matilda C. Smith, N. 48° 24′, W. 9° 30′†	30.21	767.3				n.			5		7		n.	0	0	mod.	nw.	fine.
Bgt. Myrtle, Barbadoes, W. I.*†	30.15	765.8				ene.			4					rain	rain			fair.
Schr. Maggie Abbott, Baracoa, Cuba†	30.03	762.7									2		calm	0	0			clear.
Bk. National Eagle, N. 37° 49′, W. 35° 50′						e.			3		2		ese.	0	0	mod.	w.	fair.
Bg. O. C. Clary, N. 31° 02′, W. 62° 50′*†	30.20	767.1				sw.			2		0					sm'h	nnw.	clear.
Bk. Ottawa, near Portland, Eng	29.95	760.7	59	15.0		n.			1		3		sw.	0	0	sm'h		foggy.
S. Paramita, N. 20° 13′, W. 38° 26′ †	30.15	765.8	83	28.3		ene.			1		5		n.	0	0	small	se.	fair.
S. S. Raleigh, N. 35° 50′, W. 74° 23′†	30.07	763.8	76	24.4		sw.			3		3		sw.	rain	rain	mod.	sw.	fine.
S. Rudolph, N. 56° 22′, W. 2° 01′*	29.65	753.1	59.0	15.0		nnw.			4		5		ne.	0	0	sm'h	n.	foggy.
Bg. Rising Sun, Barbadoes, W. I. †	30.02	762.5	81	27.2		e.			4					h'vy	hv'y			rainy.
Bk. Rosino, N. 41° 43′, W. 22° 27′			64	17.8		se.			4		0			0	0	mod.	s.	foggy.
Bk. Sunbeam, N. 40° 17′, W. 41° 34′†	29.92	760.0	71	21.7	80	e.			1		0			0	0	sm'h		clear.
Bk Southern Belle, N. 27° 15′, W. 42° —′†	30.09	764.3	73	22.8		nw.			4					0	0	mod	n.	clear.
S. Sovereign of the Seas, N. 35° 29′, W. 54° 06′			74	23.3	95	w.			4		5		wnw.	sh'rs	sh'rs	mod.	nw.	hazy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†	30.02	762.5	80	20.7		ssw.			3		5		s.	0	0			fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†	30.02	762.5	59	13.3	97	wnw.			2		1	n.						blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony, Africa	30.00	762.0	64	17.8		e.			2		1							blue sky.
H. M. S. Sylvia, Buenos Ayres, La Plata	29.97	761.2	47.7	8.7	92	w.			1		3	calm						d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*.	29.94	760.5	53	11.7	93	wnw.	5	2.2			8		calm	0.41	10.4	mod.	w.	foggy.
U. S. S. Galena, Montevideo, Uruguay*	29.92	760.0	55	12.8	87	w.			2		10					sm'h		foggy.
S. Wm. McGilvery, S. 28° 42′, W. 45° 46′ *†	30.10	764.5	73	22.8	90	nnw.			5		2		nnw.	0	0	mod.	w.	
May Hulse, S. 12° 28′, W. 26° 00′	30.12	765.0	70.7	24.8	88	e.			5		4							squally.
S. S Olbers. S. 8° 11′, W. 33° 10′ †	30.10	764.5	80	30.0	68	ese.			4		3		se.	½h'r	½h'r	mod.	se.	clear.
Bk. Achille F, S. 16° —′, W. 34° —′†	30.16	766.1	77	25.0	77	ese.			5		4		se.	0	0	mod.	se.	fair.
Bk. Alpheus Marshall, S. 17° 59′, W. 1° 15′ *†	30.05	763.3				ese.			3		4		se.	0	0	mod.	w.	fair.
Bk. Ceylon, S. 29° 05′, E. 9° 55′*†	30.20	767.1	68	20.0	84	ese.			6		7		se.	0	0	r'gh	se.	fair.
S. Dynomene, S. 23° 18′, E. 8° 10′	30.15	765.8	67	19.4	79	se.			6		9			mod.	mod.	long	ssw.	cloudy.
Bk. Adelaide, S. 18° 53′, W. 37° 41′*†	30.26	768.6	80	20.7		ese.			5		1		se.	0	0	mod.	sse.	clear.
H. P. M. S. Duque de Terceira, Mossamedes, Beng'la	29.93	760.3	68.0	20.9	77	sw.			3		10			0	0	1	sw.	overcast.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 37° 15′, E. 122° 53′	29.90	759.4	63	17.2	83	ene.			1		1	e.						misty.
H. M. S. Champion, Labuan Id., Borneo	29.74	755.4	85	29.4	79	wsw.			1		8	n.						d. clouds
H. M. S. Espiegle, N. 3° 30′, E. 172° 50′	29.89	759.2	82	27.8	79	ne.			4		2					2	e.	d. clouds
H. M. S. Flying Fish, N. 37° 13′, E. 126° 37′	29.93	760.2	68	20.0	87	calm			0		8							misty.
H. M. S. Magpie, N. 5° 16′, E. 115° 15′	29.80	759.9	85.2	29.6	74	w			1		8							d. clouds.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.97	761.2	70	21.1	95	calm			0		3							d. clouds.
H.P. M. S. Tamega, Macao, China	29.71	754.6	83.3	28.5	85	e.			2		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.20	767.1	64.5	18.1	86	calm			0		8		e.	0	0			cloudy.
U. S. S. Adams, Sitka, Alaska†	30.19	766.8	48	8.9	92	ne.			1		8							cloudy.
U. S. S. Essex, N. 13° 08′, W. 141° 32′	29.97	761.2	77	25.0	86	ne.			3		2			sm'h	ne.	clear.		
U. S. S. Hartford, Honolulu, Sandwich Ids*	30.00	762.0	74	23.3	86	ne.			1		5			0	0			fair.
U. S. S. Monocacy, Salee river, Corea	29.79	756.7	66	18.9	84	w.			1		8		calm					misty.
U. S. S. Palos, Hong Kong, China	29.61	752.1	76	24.4	100	e.			1		2		calm					clear.
U. S. S. Richmond, Amoy, China *	29.62	752.3	81	27.2	83	ene.			3		5		ene.	0	0			fair.
S. S. Arabic, N. 48° 06′, W. 168° 49′			43	6.1	100	nnw.			3		10		nnw.	light	light	sm'h		hazy.
S. S. Oceanic, Yokohama, Japan	30.11	764.8	70	21.1	75	var.			1		6							fair.
S. S. Columbia, N. 44° 40′, W. 124° 20′ †	30.02	762.5	55	12.8	93	n.			4		10		n.			h'vy	nnw.	misty.
S. S. Oregon, N. 39° 44′, W. 124° 02′†	29.77	756.1	55	12.8	93	se.			1							sm'h		foggy.
S. S. Willametta, N. 42° 24′, W. 124° 36′†	30.00	762.0	51	10.6	86	n.			5		0			0	0	r'gh	nnw.	foggy.
S. S. Ancon, N. 34° 35′, W. 120° 41′†	29.86	758.4	59	15.0	94	sse.			3		10							misty.
S. S. City of Chester, off Point Arenas, Cal.†	29.75	755.6	54	12.2	70	se.			0		10					long	nw.	overcast.
S. S. Dakota, N. 45° 10′, W. 124° 40′ †	30.03	762.7	56	13.3	75	wnw.			6		8		nw.			mod.	wnw.	cloudy.
S. S. Queen of the Pacific, San Francisco, Cal.†	29.78	756.4				calm			0		10			0	0			hazy.
S. S. City of Rio de Janeiro, N. 30° 10′, E. 128° 12′ †	29.93	760.2	73	22.8	90	e.			4		10		e.	rain	rain	large	e.	drizzling.
S. S. Colima, Acapulco, Mexico †	29.92	760.0	79	26.1	80	calm			0		3		calm	0	0			clear.
S. S. Granada, N. 15° 20′, W. 93° 20′ †	29.94	760.5	79	26.1	95	var.			1		10		s.	6 h'r	6 h'r			squally.
S. S. San Blas, Panama, Panama			81	27.2		nnw.			2		2		nnw.	0	0			clear.
S. S. Zealandia, N. 35° 02′, W 130° 41′			59	15.0	88	n.			6		10		ne.			hv'y	ne.	squally.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Benledi, N. 33° 30′, E. 126° 30′*.	29.92	760.0	73	22.8	90	var.			1–2		7		se.	0	0	light	n.	fair.
S. S. Radnorshire N. 33° 28′, E. 135° 32′ *†	29.95	760.7				ne.			2					0	0	light	se.	clear
S. Sacramento. N. 11° 10′ E. 121° 30′ *†	29.90	759.4	84	28.9	75	ssw.			3		8			1 h'r	1 h'r	sm'h		cloudy.
S. St. David, N. 10° 50′, E. 111° 26′ *†	29.70	754.4	85.3	29.6	83	sw.			5		9		sw.	0	0	short	sw.	hazy.
Bk. Xenia, Shanghai, China*†	29.06	761.0	75	23.9		ese.			5		10		s.	10 h'r	10 h'r			heavy rain.
H. M. S. Sappho, Acapulco, Mexico	29.86	758.4	84	28.9	91	sw.			1		3	nw.						d. clouds.
U. S. S. Ranger, N. 13° 49′, W. 90° 19′	29.93	760.2	79	25.1	82	e.			2		8		ene.	0.45	11.4	sm'h		cloudy.
S. Henry Failing, N. 33° 28, W. 120° 09′†	29.80	756.9	60	15.6		s.			2		10		s.	3 h'r	3 h'r	sm'h	w.	overcast.
S. Grecian, Yokohama, Japan†	30.08	764.0	69	20.6	80	e.			3		4		e.	0	0			clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W.			55	12.8	87	calm			0		0							blue sky.
H. M. S. Kingfisher, S. 31° 36′, W. 123° 47′	29.60	751.8	64	17.8		sw.			6		8					5	sw.	showery.
H. M. S. Nelson, Souva, Feejee Ids	29.73	755.1	73	22.8	90	calm			0		10							raining.
U. S. S. Iroquois, Valparaiso, Chili	30.14	765.5	54	12.2	93	sse.			1		0							clear.
U. S. S. Lackawanna, S. 22° 20′, W. 89° 18′*	30.11	764.8	67	19.4	84	nw.			2		8		w.			sm'h	w.	cloudy.
U. S. S. Onward, Callao, Peru†	30.13	765.3	64	17.8	78	e.			2		10		e.					cloudy.
U. S. S. Pensacola. Callao, Peru*	29.95	760.7	64	17.8	89	calm			0		10			0	0			cloudy.
U. S. S. Wachusetts, Tahiti Id, Society Ids*†	30.06	763.5	75	23.9	86	se.			1		0					sm'h		clear.
S. S. Australia, Sydney. N. S. W.	30.43	772.9	48	8.9	92	w.			2		2		wsw.	0	0			clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.89	759.2	79.3	26.3	93	ese.			2		7					sm'h		d. clouds.
S. S. City of Sydney, Sydney, N. S. W *†	30.30	769.6	54	12.2	74	wsw.			2		8 k		sw.					cloudy.
S. Parker M. Whitmore, S. 47° 14′, W. 89° 26′ *†	29.98	761.5	44	6.7		se.			4		3		sw.	0	0	long	se.	clear.
S. Storm King, S. 46° 00′, W. 80° 22′ *†	29.95	760.7				s.			4		5		s.	1 h'r	1 h'r	r'gh	s.	fair.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.08	764.0	77	25.0	91	sse.			3		2		sse.			2	sse.	d. clouds.
U. S. S. Enterprise, Tullear Bay, Madagascar, Africa*	30.04	763.0	72	22.2	72	sw.			2		2		calm			sm'h		clear.
U. S. S. Juniata, N. 10° 49′, E. 75° 03′	29.72	754.9	83	28.3	100	sw.			3		10		sw.	mod.	mod.	long	sw.	cloudy.
S. S. Galatia, N. 16° 32′, E. 57° 24′*†	29.65	753.1	84	28.9		sw.			4		3		sw.	0	0	r'gh	sw.	clear.
S. S. Malabar, Bassein, India *†	29.70	754.4				sw.			3		5		sw.	13 h'r	13 h'r	sm'h		fair.
S. Annie M. Law, S. 36° 50′ E. 22° 51′*†	30.43	772.9	66	18.9		wsw.			1		0			0	0	high	nw.	clear.

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

UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 11, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.03	762.7	71.6	22.0	87	n.			1		0			0	0	clear	Malaterre.
Algiers			30.00	762.0	72.0	22.2	72	n.			3		0			c	0	clear	Thève.
La Calle			29.94	760.5															Fonfréde.
Tunis			29.95	760.8															Jacques.
Saida			30.04	763.0															Pérès.
Tebessa			29.96	760.9	89.2	31.8	9	s.			3		3			inap.	inap.	pretty fair	St. Martin.
Geriville					89.6	32.0	3	nw.			4		0			inap.	inap.	clear	Forfert.
Laghouat			29.92	760.0	90.3	32.4	22	se.			3		0			0.004	0.1	clear	Abraham.
Biskra			29.90	759.4	96.8	36.0	22	sw.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.29	769.4	57.5	14.2	86	ne.	17	7.6		2 cs				0	0		Charles Todd, F. R.A.S.
Melbourne, Victoria	30.28	769.1	30.37	771.4	49.5	9.7	82	n.	6	2.7			7			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.35	745.4	29.87	758.6	78.3	25.7	48	se.			2		1			0.169	4.3		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.18	741.1	29.93	760.1	66.2	19.0	85	sse.	6.3	2.8			10			0.075	1.9		Dr. Wierzbiski
Eperies	29.02	737.1	29.85	758.2	79.3	26.3	58	calm			0		8 ks			0.079	2.0	light rain	Julius Mikolik.
Gratz	28.71	729.3	29.92	760.0	70.3	21.3	80	se.			1		6			1.469	37.3	lightning	Andreas Rospini.
Hermannstadt	28.45	723.5	29.82	757.4	83.1	28.4	40	nw.			2		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.59	726.1	29.87	758.8	70.9	21.6	61	ne.			1		6			0.051	1.3	heavy cl'ds	The Staff.
Lemberg	28.93	734.8	29.87	758.7	75.9	24.4	58	sw.			3		1			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.82	757.5	29.93	760.2	78.3	25.7	55	s.			2		1			0	0	foggy	I. R.Hydrographic Office.
Szathmar	29.40	746.7	29.84	758.0	82.0	27.8	41	sw.			3		6			0	0	thunder	Joseph Midlinszky, S. J.
Szegedin	29.60	751.8	29.87	758.6	75.0	23.9	66	sw.			2		6			0	0		Karl Stancel.
Trieste	29.82	757.3	29.91	759.8	76.3	24.6	57	w.			1		6			0.067	1.7		Royal Academy.
Vienna	29.26	743.1	29.95	760.7	72.0	22.2	51	ne.			1		5			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.10	764.5	30.20	767.1	56.0	13.3	57	sse.	13	5.8			9			0.050	1.3	overcast	W. Boswell.
Armagh, Observatory	30.06	763.5	30.29	769.4	57.7	14.3	64	nnw.	2	0.9			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.22	767.6	55.2	12.9	77	nnw.	8	3.6			10					overcast	John Hartnup.
Bolton, Sharples	29.66	753.4	30.20	767.1	56.6	13.7	66	nne.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.80	756.9	30.20	767.1	56.7	13.7	66	ne.			1		10					overcast	McLandsborough&Preston.
Bridgetown, Barbadoes	30.09	764.3	30.12	765.0	77.0	25.0	86	ne.			2		8					overcast	Corpl. W. I. Cull, A.H.C.
Cardington	30.08	764.0	30.19	766.8	53.4	11.9	77	ne.			0.6		10					overcast	John McLaren.
Chatham, School M. E.	30.00	762.0	30.13	765.3	53.9	12.2	83	ne.			1		10					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.97	761.2	30.20	767.1	62.2	16.8	72	sse.			1		8					d. clouds	The Staff.
Fort Napier, Natal	27.87	707.9	30.09	764.3	65.0	18.3	37	n.			1		2					threatening.	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.58	751.3	29.81	757.2	83.0	28.3	87	n.			2		6					raining	J. W. Smith.
Galway, Queen's College	30.21	767.3	30.24	768.1	58	14.4	82	s.			1		5			0.03	0.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.96	761.0	30.02	762.5	71.8	22.1	90	nw.			3		3					blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	30.00	762.0	30.21	767.3	60.2	15.7	49	w.			2		4					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.97	761.2	30.15	765.8	53.8	12.1	81	nne.			2		10					drizzling	The Staff.
Guernsey	29.86	758.4	30.16	766.1	56.3	13.5	92	nne.			1		9					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.13	765.3	30.17	766.3	54.3	12.4	77	n.	17	7.6			10					threatening.	The Staff.
Leicester, Museum	29.95	760.7	30.21	767.3	53.0	11.7	77	ne.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.88	758.9	29.95	760.7	77.0	25.0	82	nw.										blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.08	764.0	30.12	765.0	84.5	29.2	70	se.			3		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.70	754.4	30.22	767.6	51.6	10.9	78	ne.			1		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.96	761.0	30.19	766.8	53.0	11.7	80	nne.			3		10					overcast	The Staff.
Plymouth	30.09	764.3	30.16	766.1	64.5	18.1	67	se.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.07	763.8	30.17	766.3	51.9	11.1	79						8					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.75	755.6	29.81	757.2	76.2	24.6	71	sw.			1		6					d. clouds	W. H. Lyne.
Sheffield	29.93	760.2	30.21	767.3	58.9	14.9	81	ne.			1		10			blank	blank	overcast	W. F. Cooper.
Silloth Rectory	30.18	766.6	30.21	767.3	63.5	17.5	66	nw.			1		2			0.010	0.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.22	767.6	60.0	15.6	56	n.	3	1.3			10			blank	blank	misty	W. C. Carlisle.
Truro, Royal Institution	30.15	765.8	30.24	768.1	70	21.1	66	w.			4		3					d. clouds	W. Newcombe.
Valencia, Observatory	30.29	769.4	30.32	770.1	58.6	14.8	68	nw.	16	7.2			3					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.60	751.8	29.99	761.7	81.4	27.4	35	nnw.	3.7	1.7		2 c		w.		0	0		Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.76	755.9	29.80	756.9	52	11.1	95	nw.	10	4.5			10 s		calm	0.175	4.4	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.81	757.2	29.87	758.7	49	9.4	93	ne.	7	3.1			10 n		ne.	0.45	11.4	cloudy	G. A. Blair.
Cornwall, Ontario	29.25	742.9	29.44	747.8	55.7	13.2	97	e.			1		10 s			0.228	5.8	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.84	757.9	29.90	759.4	50.0	10.0		e.			2		10 s			0.100	2.5	gloomy	H. A. Johnson.
Father Point, Quebec*	29.80	756.9	29.82	757.4	40	4.4	86	ne.	40	17.9			10 n		ne.	inap.	inap.	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.68	728.5	29.50	749.3	52	11.1	100	sw.	4	1.8		5 k	0			1.66	42.2	hazy	James Stewart.
Fredericton, N. B	29.78	756.4	29.85	758.2	51.3	10.7	91	ne.	5	2.2			10 s			0.250	6.3	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.35	720.1	29.41	747.0	59.0	15.0	100	sw	12	5.4			10 n			0.60	15.2	raining	Jas. Grant.
Halifax, N. S*	29.67	753.6	29.80	756.9	53	11.7	100	calm	0	0			fg.			0.020	0.5	foggy	A. Allison.
Hamilton, Ontario	29.00	736.6	29.38	746.2	61.9	16.6	97	sw.			3	5 ck	0	sw.		0.45	11.4	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.10	739.1	29.42	747.3	65	18.3	93	s.	8	3.6			10 k		sw.	0.12	3.0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	29.77	756.1	29.76	755.9	49.0	9.4	92	s.			2		10 n			0.60	15.2	raining	C. H. Rigby.
London, Ontario	28.59	726.2	29.46	748.3	60.7	15.9	88	w.					10 n			0	0	overcast	E. B. Reed.
Montreal, Quebec*	29.30	744.2	29.50	749.3	53	11.7	96	ne.	2	0.9			10 n			0.30	7.6	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.22	742.2	29.46	748.3	55.5	13.1	94	ne.					10 s			0.44	11.2	raining	A. McGill, M. A.
Parry Sound, Ontario*	28.64	727.4	29.30	744.2	59	15.0	96	se.	7	3.1			10n		se.	0.86	21.8	light rain	Rev. R. Mosley.
Peterboro, Ontario	28.69	728.7	29.39	746.5	65.7	18.7	84	sw.			2	0	8 ks			0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	28.78	731.0	29.44	747.8	63	17.2	89	sw.	21	9.4		10 c	0	sw.		0.49	12.4	cloudy	H Morgan.
Port Stanley, Ontario	28.85	732.8	29.47	748.5	58	14.4	93	sw.	16	7.2			10 n		sw.	0.30	7.6	cloudy	M. Payne.
Quebec, Quebec*	29.31	744.5	29.66	753.4	49	9.4	100	n.	24	10.7			10 n		ne.	0.01	0.3	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	28.82	732.0	29.26	743.2	58	14.4	93	e.	4	1.8			10 n			0.50	12.7	heavy rain.	W. H. McIntyre.
St. Andrews, N. B	29.71	754.6	29.76	755.9	54	12.2	93	ne.	4	1.8			10 n			0	0	cloudy	
St. John, N. B	29.64	752.8	29.81	757.2	53.0	11.7	93	ne.	6	2.7			10 s			0.300	7.6	overcast	G. Murdock, C. E.
Saint John's, N. F	29.88	758.9	30.13	765.3	46	7.8	92	s.			1		10 n			0.48	12.2	raining	J. Higgins.
St. Pierre, N. F			29.88	758.9	44.6	7.0		se.			4					0	0		The Commandant.
Saugeen, Ontario*	28.62	726.9	29.31	744.5	55	12.8	93	sw.	12	5.4			10 s			0.73	18.5	cloudy	
Stratford, Ontario	28.17	715.5	29.41	747.0	56.9	13.8	92	w.	19	8.5			10 s			0.554	14.1	d. clouds	C. J. Macgregor, M A.
Sydney, C. B*	29.76	755.9	29.82	757.4	50	10.0	93	nw.	4	1.8			10 n			0.25	6.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.04	737.6	29.41	747.0	58	14.4	93	s.	7	3.1			10 n		sw.	0.41	10.4	cloudy	Magnetic Observatory.
Windsor, N. S	29.69	754.1	29.78	756.4	66.0	18.9	95	nw.	1	0.4			10 n			0	0	overcast	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.40	721.3	29.42	747.3	61.0	16.1	92	s.	27	12.1		8 k	0	w.		0.53	13.5	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.71	754.6	29.78	756.4	56	13.3	96	se.	2	0.9			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	29.91	759.7	29.94	760.5	68.0	20.0	52	ne.	11.6	5.2		5c	0			0	0	fine	John Burtle
Springbok Fontein	28.03	711.9			70	21.1	90	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.87	758.9	29.99	761.7	78.8	26.0	43	calm			0		5			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.93	760.1	29.95	760.8	67.6	19.8	95	calm	0	0			10k;fg			0.331	8.4	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.81	757.2	29.86	758.4	63.0	17.2	77	nne.	11	5			4						Oversergent Fischer.
Fanoe	29.93	760.1	29.95	760.6	56.7	13.7	82	nnw.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.80	756.8	29.84	757.9	36.5	2.5	75	s.			4		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.74	755.5	29.79	756.7	35.1	1.7		s.			2		7						
Stykkisholm, Iceland	29.67	753.7	29.72	754.8	48.6	9.2	83	se.			4		10					raining	A. O. Thorlacius.
Thorshavn	29.99	761.8	30.02	762.4	50.5	10.3	88	sw.	9	4			7						Overloerer Bergh.
Vestervig	29.85	758.2	29.94	760.5	58.1	14.5	83	nw.			4		9						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.74	755.0			89.1	31.7		n.	5.4	2.4		0	0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.44	747.8	30.09	764.2	59.0	15	96	wsw.			1		10 n			0.185	4.7	raining	M. Labroue, Director.
Alençon, Normal School	29.52	749.8	30.07	763.8	59.4	15.2	91	ne.			3		n		sw.	0.63	16.		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.88	758.9	29.96	760.9	71.6	22	61	nw.			1		5		nw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.42	747.2	29.96	761.0	62.6	17.0	61	nnw.			2		8kn		wnw.	0.413	10.5	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.78	756.4	30.04	763.1	59.7	15.4	76	ne.			2		10		ne.	0.205	5.2	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.02	737.2	29.91	759.6	68.0	20	81	sw.			2	0	0			0.04	1.	clear	M. Gobin, Director.
Bordeaux, Observatory	29.76	755.8	30.01	762.3	65.8	18.8	67	sw.			1		8		wnw.	0.299	7.6	almost cov'd	M. Rayet, Director.
Bourges, Normal School	29.41	747.0	29.95	760.6	64.4	18	71	nw.			1		k		nw.	0.484	12.3		M. Malet, Director.
Brest, Naval Observatory	29.94	760.4	30.18	766.6	59.4	15.2	78	nne.			2		9		nne.	0	0	hazy	M. de Kermarée, Dir.
Caen, Normal School	30.00	761.9	30.07	763.7	58.6	14.8	89	s.			3		5		s.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.64	752.8	29.95	760.8	64.6	18.1	70	sw.			2		2		sw.	0.126	3.2	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.46	748.2	29.97	761.1	58.3	14.6	82	ne.			1		10			0.08	2.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.62	727.0	29.95	760.6	66.2	19.0	66	ne.			1		8		w.	0.248	6.3	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.13	739.9	29.97	761.3	64.4	18	62	nw.			1		9		nw.	0.083	2.1		M. de Villeinontée, Dir.
Commercy, Normal School	29.14	740.2	29.99	761.8	59.0	15	74	s.			1		10 n	s.	s.	0.106	2.7	raining	Dr. Coulet, Director.
Gap, Normal School	27.48	697.9	29.99	761.8	57.2	14	95	calm			0	0	9 n		s.	0.098	2.5		M. Jeangirard, Director.
Gréasque, du Rhone	28.85	732.7	29.94	760.5	68.0	20.0	68	sw.			2		9		sw.	0.094	2.4		M. Kina, Director.
Grenoble. Normal School	29.21	742.0	29.97	761.2	64.0	17.8	76	w.			1		10kn			0.402	10.2	raining	M. Ablard, Director.
Guéret, Normal School	28.37	720.7	29.93	760.3	60.8	16	66	nne.			1		10 n			0.130	3.3	covered	M. Delorme, Dir.
Lamballe, Normal School	30.01	762.2	30.28	769.0	60.8	16	82	nw.					k		nw.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.46	748.3	30.02	762.5	62.2	16.8	81	w.			1	0	5kn			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.01	762.2	30.11	764.8	66.6	19.2	60	ne.			2		8		ne.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.92	734.6	29.96	761.0	63.9	17.7	64	n.			1	0	2 n			0.051	1.3	slightly cl'dy	M. André, Director.
Mans, Normal School	29.74	755.4	30.05	763.2	60.4	15.8	87	nne.			3		5		e.	0.209	5.3	cloudy	M. Piboën, Director.
Marseille, Observatory	29.69	754.2	29.96	760.9	67.1	19.5	73	w.			2		10		wsw.	0.055	1.4		M. Stephan, Director.
Montlouis	24.86	631.5	29.71	754.5	46.4	8.0	72	wsw.	13.0	5.8			9			0.268	6.8		M. Cave for Dr. Fines.
Montpellier, Normal School	29.87	758.7	29.99	761.8	71.6	22	74	w.			2		5		w.	0.102	2.6	thund'rst'm	M. Galzin, Director.
Nancy, Normal School	29.20	741.7	29.97	761.3	58.6	14.8	80	wsw.			1		n			0.028	0.7		M. Hasse, Director.
Nantes, Observatory	29.92	760.0	30.08	764.1	65.3	18.5	69	n.			1–2	0	9k;kn		nne.	0.118	3.0		M. Larocque, Director.
Perpignan, Observatory	29.91	759.6	30.02	762.4	67.5	19.7	67	s.	3.8	1.7			10		nw.	0.110	2.8		Dr. Fines, Director.
Pic-du-Midi, Summit	21.20	538.4			32.5	0.3		w.			1		10		w.	0.276	7.0	snowy	M. Vaussenat, Director.
Privas, Normal School	28.91	734.4	29.95	760.7	66.9	19.4	60	n.			1		10 n		n.	0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.14	638.5			43.2	6.2	99	w.			3		10		w	0.150	3.8	covered	M. Alluard.
Rochefort, Naval Obs'y	29.97	761.3	30.00	762.1	72.3	22.4	64	w.			2		2		nnw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.79	756.7	30.00	762.0	70.0	21	57	nw.			1		8		se.	0	0	very cloudy.	M. Brotier, Director.
Rodez, Normal School	27.89	708.3	30.00	762.1	60.8	16.0		nw.			1		10		nw.	0.110	2.8	light rain	M. Seger, Director.
Rouen, Normal School	29.97	761.3	30.02	762.5	63.0	17.2	73	n.			3		5		n.	0.055	1.4	cloudy	M. Moullilot, Dir.
Saint Maur, Observatory	29.84	757.8	30.00	761.9	63.1	17.3	72	nne.			2		9		n.	0.035	0.9		M. Renou, Director.
Toulouse, Observatory	29.37	745.9	30.09	764.3	65.8	18.8	73	sw.			1		8	w.		0.394	10.0	very cloudy	M. Bailland, Director.
Tours	29.83	757.6	30.00	762.1	63.0	17.2	75	n.			1		10		ne.	0.106	2.7	rainy	M. de Tastes.
Versailles, Observatory	29.82	749.8	30.01	762.3	58.6	14.8	89	n.			3					0.126	3.2		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.93	760.2	30.08	764.0	59.5	15.3	93	n.	2.0	0.9		0	8 k		ne.	0.874	22.2		M. Cartier, Director.
GERMAN.																			
Ansbach	28.52	724.5	29.93	760.1	67.6	19.8	50	n.			2		3	n.		0.213	5.4		Prof. Jnedt.
Bamberg	29.08	738.6	29.92	760.0	68.9	20.5	60	sw.			1	0	3 ks		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.76	755.9	29.90	759.4	70.5	21.4	62	nw.			1		6			0.016	0.4		Dr. Sensch.
Breslau	29.44	747.8	29.97	761.3	71.4	21.9	47	sw.			1		4	s.		0.205	5.2		Royal University Obs'y.
Carlsruhe	29.49	749.0	29.93	760.3	70.9	21.6	47	w.			1		8	sw.		0.236	6.0		Albert Senz.
Cassel	29.23	742.4	29.94	760.5	59.4	15.2	74	nw.			3		8	nw.		0.016	0.4		Dr. H. Möhl.
Frankfort-on-the-Main			29.91	759.8	68.2	20.1	59	n.			1		7			0.213	5.4		Physical Society.
Friedrichshafen	28.54	724.8	29.91	759.6	68.0	20.0	57	sw.			2		4	sw.		1.472	37.4		Wilhelm, Chief Tel.
Hamburg	29.86	758.4	29.95	760.7	58.6	14.8	89	nnw.			3		10					sprinkling	E. Preller.
Kiel	29.91	759.7	29.93	760.1	58.8	14.9	89	nw.			2		10			0.169	4.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.52	749.7	29.92	760.0	71.4	21.9	48	sw.			2		6	wsw.		0.067	1.7		H. Lepping, Asst.
Magdeburg	29.74	755.3	29.92	759.9	65.5	18.6	75	w.			2		9	wsw.		0.295	7.5		Weather Observatory
Memel	29.89	759.1	29.93	760.3	66.4	19.1	86	sw.			1		10 ks						Issermann.
Munich	28.14	714.8	30.00	762.0	67.1	19.5	47	ne.			2		5	e.		0.031	0.8		Central Station.
Neufahrwasser	29.89	759.2	29.91	759.6	69.1	20.6	70	e.			2		8	w.		0	0		A. Lothes.
Neustadt, Palatinate	29.37	746.1	29.90	759.4	67.5	19.7	59	w.			2		8	w.		0	0		Dicknether.
Stuttgart	29.00	736.5	29.86	758.5	68.4	20.2	54	n.			1		4	w.		0.748	19.0		Prof. Dr. Schoder.
Wustrow	29.91	759.6	29.93	760.3	60.1	15.6	84	n.			3		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.53	750.1	29.90	759.5	82.4	28.0		s.			3.9		1 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.43	747.4	29.48	748.6	89.5	31.9	69	wnw.	20.0	8.9			3			0	0	d. clouds	
Deesa	29.00	736.5	29.44	747.9	101.1	38.4	30	s.	13.0	5.8			0			0	0	blue sky	
Bombay	29.53	750.1	29.57	751.0	83.5	28.6	83	sse.	37.0	16.5			7	ssw.	s.	0	0	d. clouds	
Poona, Yarrowda	27.78	705.5	29.62	752.4	77.3	25.2	80	sw.	12.0	5.4			10			0.82	20.8	overcast	
Trichinopoly	29.44	747.8	29.72	754.8	94.2	34.6	41	wnw.	3.0	1.3			4	nne.	nne.	0	c	d clouds	
Belgaum	27.16	689.8	29.71	754.6	69.9	21.1	92	w.	13.0	5.8			7	w.	s.	0.08	2.0	d. clouds	
Lahore	28.59	726.2	29.28	743.6	110.3	43.5	17	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.47	723.2	29.32	744.6	102.9	39.4	35	calm	0	0						0	0	misty	
Agra	28.77	730.6	29.29	743.9	109.9	43.3	18	w.	2.0	0.9			0			0	e	blue sky	
Nagpur	28.48	723.3	29.48	748.9	93.5	34.2	39	nw.	8.0	3.6			9		nw.	0	0	gloomy	
Jubbulpore	28.11	714.0	29.42	747.4	90.7	32.6	23	s.	8.0	3.6			7		s.	0.05	1.3	d. clouds	
Lucknow	29.02	737.0	29.37	746.0	101.4	38.6	39	ese.	3.0	1.3			0			0	0	blue sky	
Allahabad	29.05	737.9	29.35	745.4	99.9	37.7	42	e.	8.0	3.6			10			0	0	overcast	
Patna	29.25	742.8	29.42	747.4	94.9	34.9	45	se.	8.1	3.6			8	se.	se.	0	0	d. clouds	
Hazaribagh	27.48	697.9	29.45	748.1	80.5	26.9	79	ese.	7.2	3.2			10					drizzling	
Cuttack	29.36	745.8	29.44	747.8	87.8	31.0	76	w.	5.0	2.2			3			2.44	62.0	d. clouds	
Calcutta, Alipore	29.44	747.8	29.46	748.3	82.0	27.8	90	ese.	7.0	3.1			10		s.	0	0	overcast	
Dhubri	29.38	746.2	29.50	749.2	84.3	29.1	81	e.	2.6	1.2			6			0.10	2.5	d. clouds	
Chittagong	29.46	748.2	29.54	750.4	81.2	27.3	86	ssw.	5.4	2.4			8	s.		0	0	d. clouds	
Sibsagar	29.19	741.4	29.52	749.7	85.3	29.6	78	ne.	2.0	0.9			8	e.	e.	0	0	d. clouds	
Jeypore	28.02	711.8	29.38	746.4	103.7	39.8	39	wnw.	15.0	6.7			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Zanzibar	29.99	761.8	30.02	762.4	83.5	28.6	51	s.	8.6	3.8			9	s.		0	0	d. clouds	
Bellary	28.20	716.3			88.5	31.4	45	w.	14	6.3		5 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.53	750.0	29.93	760.1	76.8	24.9	60	s.	2.5	1.1			4			0.260	6.6		Prof. Giovanni Clodig.
Milan	29.43	747.6	29.94	760.5	64.0	17.8	69	nne.	7.4	3.3			10	ssw.		0	0		Prof. G.V.Schiapparelli.
Padua	29.80	756.9	29.91	759.6	76.8	24.6	49	se.	4.3	1.9			6	ssw.		0.291	7.4		Prof. Dott. Lorenzoni.
Moncalieri	29.03	737.4	29.92	759.9	62.8	17.1	86	nw.	2.5	1.1			10	n.		0.362	34.6		Prof. F. F. Denza.
Genoa	29.76	755.9	29.93	760.3	67.3	19.6	74	se.	12.5	5.6			10	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.04	712.1	29.92	760.0	59.5	15.3	84	e.			2		9			0.028	0.7		Prof. D. C. Bruno.
Pesaro	29.88	759.0	29.93	760.2	74.1	23.4	64	se.	13.7	6.1			6			0	0		Prof. Luigi Guidi.
Florence	29.68	753.9	29.93	760.3	76.6	24.8	38	sw.			2		1	sw.		0	0		Prof. Costantino Pittei.
Leghorn	29.81	757.2	29.89	759.3	73.9	23.3	58	wsw.	1.3	0.6			0			0	0		Prof. P. Monte.
Rome	29.76	755.8	29.93	760.1	78.4	25.8	34	ne.	1.3	0.6			5			0	0		Prof. P. Tacchini.
Lecce	29.70	754.4	29.94	760.5	83.8	28.8	35	ene.	9.4	4.2			1			0	0		Prof. C. de Giorgi.
Cosenza	29.06	738.2	29.91	759.7	85.3	29.6	67	wsw.	1.8	0.8			5	sw.		0	0		Prof. D. Conti.
Cagliari	29.72	755.0	29.91	759.8	72.0	22.2	73	se.			2		4			0.028	0.7		Prof. A. Pacinotti.
Palermo	29.76	755.9	30.00	762.1	72.1	22.3	74	ne.	6.9	3.1			8			0	0		Prof. G. Cacciatore.
Syracuse	29.84	757.8	29.88	758.9	87.6	30.9	42	nne.	3.1	1.4			5	wsw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.45	748.1	29.97	761.1	74.7	23.7	72	e.	0	0			5	w.		0	0		Prof. F. Brioschi.
Stelvio	22.17	563.0			39.7	4.3	77	sse.			2		10			0.425	10.8	covered	Prof. P. F. Denza.
Valdobbia	22.17	563.2			40.1	4.5	72	n.			2		10			0.138	3.5	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.07	763.7	30.10	764.6	61.4	16.3	96	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	30.11	764.8	30.15	765.8	55.0	12.8	82	n.	4.7	2.1		0	0			0	0	clear	K. Ogawa.
Hamamatsu	30.10	764.5	30.13	765.2	66.0	18.9	78	e.			4	4 ck	5 s;ks	n.	n.	0	0	cloudy	Y. Sekigawa.
Kanazawa	29.98	761.5	30.08	764.1	64.1	17.8	86	e.	10.1	4.5		3	3			0	0	cloudy	S. Endo.
Kagoshima	30.01	762.3	30.02	762.6	69.4	20.8	81	e.			2		9 s		e.	0.012	0.3	cloudy	G. Miyanohaza.
Kioto	29.91	759.8	30.09	764.2	67.7	19.8	71	ne.	3.4	1.5		9 cs	0			0	0	cloudy	M. Tojima.
Kochi	30.07	763.7	30.09	764.2	68.9	20.5	84	ene.	5.7	2.5			10 n			0.068	1.5	raining	K. Kusunose.
Miasaka	30.03	762.7	30.06	763.4	67.1	19.5	88	nne.			1		10ks;s		e.	0.063	1.6	cloudy	K. Masuzaki.
Miyako	30.10	764.7	30.22	767.5	52.0	11.1	87	calm	0	0			10 s			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.81	757.2	30.01	762.2	66.9	19.4	92	calm	0	0		1 c	9 s	w.		0.170	4.3	overcast	S. Takehayashi.
Niigata	30.07	763.8	30.10	764.5	59.8	15.4	92	n.	2.6	1.2		0	0			0	0	clear	M. Morita.
Nobiru	30.17	766.3	30.18	766.7	54.1	12.3	90	ne.	7.2	3.2		0	2 ks		se.	0	0	fair	H. Midzushima.
Numazu	30.10	764.5	30.14	765.5	65.1	18.4	74	se.			2	1 ck	9 s;ks			0	0	cloudy	R. Kaneda.
Osaka	30.06	763.5	30.07	763.9	67.9	19.9	78	ne.	5.1	2.2		6 cs	4 s			0	0	cloudy	H. Omura.
Sakai	30.05	763.4	30.06	763.6	64.0	17.8	84	ne.			4	8 cs	1 ks	wsw.	ne.	0	0	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	30.09	764.3	30.17	766.2	60.8	16.0	81	e.	5.4	2.4		3 cs	0	w.		0	0	fair	The Staff.
Wakayama	30.01	762.3	30.06	763.6	68.3	20.2	71	calm	0	0		9 ck	1 ck	w.	s.	0	0	cloudy	K. Sakai.
Shimonoseki	29.89	759.2	30.03	762.9	68.1	20.1	80	e.			2	0	3 k		w.	0	0	fair	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.87	758.7	30.06	763.5	74.1	23.4	54	se.	13.0	5.8		0	1 k			0	0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.67	601.3	29.89	759.3	58.5	14.7	71	ese.	inap.	inap.		2 c	0	s.		0	0	clear	Prof. Vicente Fernandez.
Leon	24.31	617.5	29.99	761.7	57.2	14.0	74	nnw.	0.9	0.4		6 c	0			0	0	fair	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.6	70.0	21.1	95	ne.	0.9	0.4		0	0			0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					65	18.3	90	e.	11.2	5.0		0	3 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.08	763.9	30.08	763.9	57.2	14.0		n.			3					0.268	6.8		
Groningen	29.97	761.1	30.02	762.5	53.1	11.7		n.			2					0	0		
Helder	30.05	763.3	30.05	763.3	53.6	12.0		n.			4					0	0		
Hellevoetsluis	30.05	763.3	30.05	763.3	57.4	14.1	80	n.			3					0	0		
Utrecht	30.01	762.2	30.06	763.4	58.1	14.5	74	nne.			3		8			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.1			80.1	26.7	84	nne.	0	0			3			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.98	761.4	30.04	763.0	53.2	11.8	60	nnw.	9	4			8			0	0		
Brono	29.91	759.8	29.95	760.8	51.8	11.0	82	nw.			2		9			0.039	1.0		
Christiania	29.67	753.7	29.82	757.3	71.1	21.7	49	sw.	7	3			4			0	0		
Gjæsvær	29.90	759.4	29.92	760.0	53.1	11.7		calm			0		10						
Lodingen	29.87	758.8	29.92	760.0	51.8	11.0	83	wsw.			2		10			0	0	foggy	
PORTUGUESE.																			
Angra, Azores	29.75	755.7	29.91	759.7	62.4	16.9	94	se.	18.6	8.3			10			0.646	16.4		Dr. J. A. Sampaio.
Campo Major	29.06	738.1	30.04	762.9	72.0	22.2	42	nnw.	6.3	2.8			7			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.12	765.0	30.21	767.2	68.4	20.2	55	ese.	8.1	3.6			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.78	756.3	30.11	764.7	66.7	19.3	55	n.	18.6	8.3			3			0	0		The Staff.
Ponta Delgada, Azores	29.95	760.7	30.02	762.5	63.3	17.4	92	se.	24.8	11.1			10			1.599	40.6	raining	
Saint Paul de Loando	29.76	755.8	29.96	760.9	74.5	23.6	81	w.			2		0			0	0		
San Salvador	28.07	713.0	29.89	759.1	82.0	27.8	48	sw.			2		0			0	0		
Serra da Estrella	25.36	644.0	30.11	764.7	47.8	8.8	75	ne.	9.8	4.4			10			0.004	0.1		
RUSSIAN.																			
Akmolinski	28.84	732.5	29.88	759.0	65.7	18.7	29	nne.	4	2		3 c	0			0	0		Major K. Lasarew.
Archangel	29.98	761.6	30.00	762.1	77.7	25.4	37	calm	0	0		0	8 ks			0	0		Capt. Sseliwerstow.
Ashurada	29.94	760.5	29.85	758.1	80.6	27.0	66	wnw.	11	5		0	2 k			0	0		
Astrakhan	29.97	761.2	29.89	759.1	84.2	29.0	37	se.	9	4		0	0			0	0		Capt. Wisganow.
Baku	29.93	760.2	29.88	759.0	77.7	25.4	59	sse.	9	4		0	0			0	0		
Barnaul	29.31	744.5	29.81	757.1	48.7	9.3	71	nw.	18	8			10			0.083	2.1		Meteorological Obs'y
Bielosersk	29.60	751.7	30.04	763.0	77.2	25.1	52	nw.	2	1		0	2 k			0	0		
Dorpat	29.63	752.6	29.85	758.3	82.8	28.2	43	se.	7	3		0	7 k			0.114	2.9		Observatory.
Ekaterinburg	29.08	738.6	30.02	762.5	64.9	18.3	41	ese.	9	4		1 c	0			0	0		Meteorological Obs'y
Elissawetgrad	29.44	747.7	29.86	758.5	81.1	27.3	55	nnw.	4	2		6 ck	0			1.921*	48.8*		
Irkutsk	28.08	713.1	29.67	753.5	59.2	15.1	67	calm			0		9			0.012	0.3		
Kasalinsk	29.24	742.8	29.42	747.3	89.6	32.0	30	w.	2	1			10 k						
Kasan	29.63	752.6	29.89	759.2	63.9	17.7	78	wsw.	4	2			9 n			blank	blank		Observatory.
Kem	29.88	759.0	29.93	760.3	78.6	25.9	40	se.	13	6			9 k			0	0		
Kertch	29.78	756.4	29.80	757.0	74.8	23.8	75	calm	0	0		3 c	0			0	0		Lagorio & Sastyrea.
Kieff	29.25	743.0	29.85	758.3	77.7	25.4	57	calm	0	0		0	7ks;n			0.047	1.2		Observatory.
Koslov	29.39	746.4	29.90	759.5	70.3	21.3	87	ene.	4	2		0	6 k			0.205	5.2	heavy rain.	
Libau	29.87	758.8	29.90	759.4	59.4	15.2	87	sw.	7	3			10			0.130	3.3	foggy	E. Quaas.
Lugan	29.60	751.7	29.77	756.1	85.6	29.8	27	se.	9	4			1			0	0		Meteorological Obs'y.
Moscow	29.52	749.9	29.97	761.3	74.5	23.6	42	ene.	7.8	3.5		0	4 k			0	0		Meteorological Obs'y
Nikolaiev	29.80	756.8	29.85	758.2	84.6	29.2	57	nnw.	9	4		0	6 kn			0.366	9.3		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.64	752.9	29.73	755.1	54.9	12.7	89	se.	13	6			10			0	0		Iwanow.
Pekin, China	29.78	756.4	29.92	760.0	80.8	27.1	47	calm	0	0		0	1 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.65	753.1	29.98	761.5	87.4	30.8	16	calm	0	0			0			0	0		
Petrozavodsk	29.80	757.0	29.99	761.8	72.0	22.2	52	se.	11	5		3 ck	0			0	0		Dr. Bergmann.
Pinsk	29.39	746.5	29.86	758.5	76.8	24.7	64	ese.	2	1		8 ck	0			0.650	16.5		
Poti	29.79	756.6	29.82	757.4	73.8	23.2	75	nw.	4	2		0	0			0	0		

* Total for 2 days.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
St. Petersburg	29.95	760.8	29.98	761.4	81.0	27.2	25	s.	13	6		0	2 k			0	0		Central Physical Obs'y.
Samarkand	27.57	700.3	29.93	760.2	77.2	25.1	26	ne.	13	6		0	0			0	0		
Semipalatinsk	29.26	743.1	29.91	759.6	58.1	14.5	63	n.	4	2			8			0	0		Major Lasarew
Sevastopol	29.58	751.2	29.79	756.7	79.9	26.6	54	wsw.	11	5		0	7 n			0	0		
Staroi Bykhov	29.55	750.5	29.99	761.7	73.6	23.1	68	ese.	11	5		cs	9 kn			0.579	14.7		
Tashkend	28.32	719.2	29.90	759.5	78.4	25.8	21	n.	9	4		0	1 s			0	0		Terch, A. M.
Tiflis	28.48	723.4	29.82	757.3	82.8	28.2	40	s.	4	2		0	7 ks			0	0		Physical Observatory.
Vernoe	27.51	698.7	29.97	761.1	61.2	16.2	54	sw.	4	2		0	5 k			0.614	15.6		
Viatka	29.34	745.2	29.95	760.7	70.2	21.2	61	calm	0	0			7			0	0		
Warsaw	29.50	749.4	29.91	759.6	74.3	23.5	48	wsw.	2	1		0	2 k			0.016	0.4		Astronomical Obs'y.
Yeniseisk	29.52	749.7	29.80	757.0	45.7	7.6	67	w.	4	2			1			0.039	1.0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.17	766.3	52	11.1	93	sw.			4	5	3	sw.		0	0	cloudy	J. Youngclauss
North Unst			30.05	763.3				w.			4	3	4	nw.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.94	760.4	30.04	763.1	68.0	20.0	70	e.	3.4	1.5		0	7			0.299	7.6	almost cov'd	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.05	763.3	30.11	764.8	62.6	17.0	85	nw.	2.2	1.0			10			0.236	6.0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.16	689.8	30.11	764.8	57.2	14.0	73	n.	4.9	2.2		0	6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.0	30.01	762.2	68.0	20.0	43	n.	6.7	3.0		0	8			inap.	inap.	cloudy	The Staff.
Murcia, Met. Obs'y	29.78	756.4	29.92	759.9	73.4	23.0	53	ese.	4.0	1.8		4	5	nw.		0.028	0.7	almost cov'd	Olayo Diaz, Director.
Oviedo	29.36	745.8	30.12	765.1	55.0	12.8	91	se.	4.7	2.1		10 n	4 n	se.	s.	0.898	22.8	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.24	742.8	30.15	765.7	58.3	14.6	74	n.	12.5	5.6			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.97	761.3	30.04	763.0	79.3	26.3	82	sse.	2.2	1.0		6 cs	k	ne.		0.07	1.9	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.4	29.87	758.8	79.5	26.4	84	wsw.	17.6	7.9		4 c	3 ks		sw.	0.079	2.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.2	30.07	763.7	68.5	20.3	67	wnw.	7.0	3.1		4	1	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.97	761.2	30.06	763.5	75.2	24.0	98	calm	0	0			10 kn		se.	1.504	38.2	raining	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.84	758.0	29.88	759.0	69.1	20.6	83	nnw.			4		10			0	0		
Umea	29.81	757.1	29.86	758.4	60.1	15.6	93	ne.			2		10			0.295	7.5		
Hernosand	29.78	756.5	29.84	757.8	58.6	14.8	89	n.			2		10			0.720	18.3		
Stockholm	29.62	752.4	29.80	756.9	60.1	15.6	87	nnw.			2		10			0.193	4.9		
Wisby	29.74	755.4	29.80	756.9	58.3	14.6	87	w.			2		10			0	0	foggy	
Sub-series.																			
Upsala	29.70	754.4	29.79	756.6	54.5	12.5	95	n.	9.6	4.3			10			0.465	11.8		S. G. Fineman
SWISS.																			
Geneva	28.56	725.5	29.97	761.1	63.0	17.2	62	nne.			2		9			0.083	2.1	covered	The Observatory.
TURKISH.																			
Constantinople			29.87	758.7	78.4	25.8	69	sw.	10	4.5			5		nw.	0	0		The Observatory.
Valona			30.09	764.3	80.8	27.1		sw.			1		0			0	0	clear.	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.84	757.9	82.9	28.3	57	sw.			2		2 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.70	678.2																	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.50	749.3	29.58	751.3	77	25.0	76	s.	12	5.4			10 s		s.	0.15	3.8	cloudy	J. O. Barnes.
Alpena, Michigan	28.91	734.3	29.56	750.8	54	12.2	93	nw.	20	8.9			10 n			1.54	39.1	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.99	634.7	29.74	755.4	50	10.0	68	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.07	687.6	29.86	758.4	45	7.2	86	nw.	11	4.9			10 s		nw.	0.04	1.0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.82	732.0	29.97	761.2	73.5	23.1	97	sw.	7	3.1			10 s			0.28	7.1	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.70	754.4	29.71	754.6	65	18.3	93	s.	16	7.2			10 ks		sw.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.81	757.2	30.00	762.0	76.0	24.4	97	sw.	3	1.3		0	9 ks		sw.	0.67	17.0	cloudy	John Healy.
Baltimore, Maryland	29.66	753.4	29.70	754.4	76	24.4	85	sw.	14	6.3			10 s		sw.	0.47	11.9	cloudy	Geo. W Felger.
Barnegat City, New Jersey	29.69	754.1	29.71	754.6	65.5	18.6	95	sw.	24	10.7			10s;fg		sw.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.66	753.4	29.68	753.9	39.0	3.9	89	n.	32	14.3			10 n		n.	0.03	0.8	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.07	713.0	29.61	752.1	54.5	12.5	86	nw.	14	6.3			10 s		nw.	0.16	4.1	cloudy	A. Pritchard.
Benton, Fort, Montana	27.10	688.3	29.87	758.7	47	8.3	100	ne.	8	3.6			10 n		ne.	0.06	1.5	light rain	S. Wheaton.
Billings, Montana	26.61	675.9	29.75	755.6	45	7.2	100	n.	2	0.9			10 n			0.46	11.7	light rain	T. Gibson.
Bismarck, Dakota	27.81	706.4	29.57	751.1	50	10.0	93	calm	0	0		3 c	0		sw.	0.15	3.8	clear	Cyrus Cramer.
Block Island, Rhode Island	29.67	753.6	29.70	754.4	63.5	17.5	100	sw.	18	8.0		7 cs	fg.		sw.	0.01	0.3	fair	J. T. Elker.
Boise City, Idaho	26.90	683.2	29.68	753.9	47	8.3	58	nw.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.52	749.8	29.67	753.6	67.0	19.4	93	s.	8	3.6			10 n		s.	0.06	1.5	light rain	O. B. Cole.
Brownsville, Texas	29.80	756.9	29.84	757.9	82.0	27.8	85	s.	5	2.2		3 c	3 s	w.	s.	0	0	fair	E. C. Imlay.
Buffalo, New York	28.75	730.2	29.49	749.0	63	17.2	86	sw.	24	10.7		3 k	3 ks	s.	s.	0.68	17.3	clearing	W. Finn.
Buford, Fort, Dakota	27.70	703.6	29.66	753.4	47	8.3	86	w.	5	2.2		4 ck	2 s	nw.	nw.	0.11	2.8	fair	A. Schneider.
Burlington, Vermont	29.24	742.7	29.53	750.0	64.0	17.8	93	calm			0	3 cs	5 s	w.	w.	0.60	15.2	cloudy	D. N. Farnell.
Cairo, Illinois	29.57	751.1	29.96	761.0	69.7	20.9	77	nw.	4	1.8		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	29.84	757.9	29.86	758.4	79.0	26.1	77	s.	16	7.2			10 s		sw.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.68	753.9	29.72	754.9	73.0	22.8	90	sw.	23	10.3			9 s		s.	0.07	1.8	cloudy	W. E. Smith.
Cape Mendocino, California	29.15	740.4	29.83	757.7	46	7.8	100	calm	0	0			fg.			0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.03	762.7	30.05	763.3	82	27.8	74	s.	16	7.2		3 ck	4 k	sw.	s.	0	0	fair	G. W. Davis.
Charleston, S. Carolina	29.94	760.5	29.99	761.7	79	26.1	91	sw.	10	4.5			10 s		sw.	inap.	inap.	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.07	738.4	29.90	759.4	76.0	24.4	84	sw.	9	4.0			10 s		sw.	0.29	7.4	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.15	740.4	29.96	761.0	75.0	23.9	76	sw.	4	1.8		2 k	0		sw.	0.09	2.3	clear	B. L. Goulding.
Cheyenne, Wyoming	23.80	606.0	29.60	751.8	44.1	6.7	80	n.	10	4.5		5 k	5 s	w.	n.	inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.13	739.9	29.82	757.4	55.9	13.3	87	w.	8	3.6		0	6 k		w.	0.59	15.0	fair	John Laurens.
Chincoteague, Virginia	29.77	756.1	29.79	756.7	70	21.1	94	s.	11	4.9			10 s		w.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.21	741.9	29.86	758.4	66.0	18.9	68	w.	8	3.6			10 ks		w.	0.95	24.1	cloudy	L. Dunne.
Cleveland, Ohio	28.92	734.6	29.65	753.1	61	16.1	72	w.	21	9.4			10 ks		w.	0.45	11.4	threatening	J. B. Newlin.
Coleman City, Texas	28.08	713.2	29.83	757.7	66	18.9	70	se.	2	0.9		0	0			0.02	0.5	clear	T. J. Kenan.
Columbus, Ohio	28.92	734.6	29.76	755.9	63	17.2	84	w.	21	9.4			10 n		sw.	1.11	28.2	light rain	D. Cuthbertson.
Concho, Fort, Texas	27.94	709.7	29.80	756.9	68.0	20.0	90	se.	2	0.9		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.16	740.7	29.80	756.9	58	14.4	86	w.	5	2.2		7 ck	fg.	w.		0.35	8.9	fair	R. R. Martin.
Davis, Fort, Texas	25.11	637.8	29.72	754.9	68	20.0	55	sw.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.14	714.7	29.88	758.9	50.5	10.3	83	ne.	1	0.4		7 k	0			0.03	0.8	fair	D. Moore.
Deadwood, Dakota	25.16	639.1	29.60	751.8	49	9.4	86	calm	0	0			10 n			0.23	5.8	light rain	F. Willson.
Delaware Breakwater, Del.	29.70	754.4	29.72	754.9	76	24.4	82	n.	36	16.1			7 k		w.	0	0	fair	T. S. Townsend.
Denver, Colorado	24.53	623.1	29.57	751.1	52.0	11.1	74	ne.	6	2.7		5 cs	0	w.		0	0	fair	F. M. Neal.
Des Moines, Iowa	28.84	732.5	29.72	754.9	61	16.1	84	s.	3	1.3		7 cs	0	w.		0.05	1.3	fair	F. W. Conrad.
Detroit, Michigan	28.90	734.0	29.59	751.6	57.0	13.9	93	sw.	16	7.2			10 s			0.40	10.2	cloudy	E. R. Brace.
Dodge City, Kansas	27.10	688.3	29.61	752.1	62	16.7	90	sw.	22	9.8		0	0			0	0	clear	D. J. Carr.
Dubuque, Iowa	29.09	738.9	29.78	756.4	54.7	12.6	91	s.	7	3.1			10s;fg			0.03	0.8	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.95	735.3	29.68	753.9	43	6.1	83	ne.	6	2.7			10 s		ne.	0.01	0.3	threatening	N. B. Conger.
Eagle Pass, Texas	29.08	738.6	29.87	758.7	76.0	24.4	68	se.	1	0.4			1 s		se.	0	0	clear	F. Belford.
Eagle Rock, Idaho	24.97	634.2	29.56	750.8	43	6.1	93	n.	6	2.7		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	29.72	754.9	29.79	756.7	50.0	10.0	90	ne.	14	6.3			fg.		ne.	0.05	1.3	light fog	D. C. Murphy.
Elliott, Fort, Texas	27.04	686.8	29.71	754.6	59	15.0	49	s.	12	5.4		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.18	665.0	29.77	756.1	72.0	22.2	40	nw.	4	1.8		0	2 s		nw.	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.82	732.0	29.54	750.3	65	18.3	73	w.	12	5.4		0	8 s		w.	0.07	1.8	cloudy	C. A. Shaw.
Escanaba, Michigan	29.04	737.6	29.89	754.1	50.0	10.0	86	n.	4	1.8		3 c	2 s			0	0	fair	George Heathcote.
Galveston, Texas	29.86	758.4	29.90	759.4	82	27.8	80	s.	8	3.6		5 cs	0	s.		inap.	inap.	fair	E. O'C. Macherney.
Grand Haven, Michigan	29.07	738.4	29.72	754.9	54.0	12.2	86	nw.	20	8.9		0	3 k		nw.	1.47	37.3	clear	J. E. Mueller.
Grant, Fort, Arizona	25.20	640.1	29.74	755.4	63.9	17.7	50	e.	2	0.9		0	1 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.92	760.0	29.94	760.5	76	24.4	90	sw.	30	13.4		hz.	7 k		sw.	0	0	fair	R. M. Crawford.
Helena, Montana	25.82	655.8	29.94	760.5	44	6.7	68	sw.	6	2.7			10 s			0.30	7.6	cloudy	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.19	716.0	29.53	750.0	57.9	14.4	92	nw.	8	3.6	.....	.....	10 ks	.....	nw.	0.05	1.3	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.06	738.1	29.84	757.9	60.3	15.7	75	nw	6	2.7	.....	.....	10 s	.....	nw.	0.48	12.2	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.86	758.4	29.90	759.4	79.2	26.2	92	s.	8	3.6	.....	4 cs	0	sw.	.....	0	0	fair	I. A. Reed.
Jacksonville Florida	30.02	762.5	30.06	763.5	78.0	25.6	88	s.	6	2.7	.....	3 cs	7 s	.....	s.	0.97	24.6	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.27	692.6	29.70	754.4	50	10.0	59	nw.	8	3.6	.....	8 k	0	.....	.....	0.06	1.5	cloudy	W. B. Lamar.
Keokuk, Iowa	29.15	740.4	29.79	756.7	61.0	16.1	87	s.	4	1.8	.....	1 k	0	w.	.....	0.40	10.2	clear	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	84.0	28.9	74	se.	7	3.1	.....	4 c	2 k	.....	se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.90	759.4	29.92	760.0	79	26.1	88	sw.	25	11.2	.....	0	8 k	.....	w.	0	0	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	28.93	734.8	29.94	760.5	72	22.2	84	sw.	9	4.0	.....	0	3 s	.....	sw.	0.05	1.3	clear	J. A. Cody.
La Crosse, Wisconsin	28.94	735.1	29.70	754.4	63	17.2	63	se.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.89	733.8	29.76	755.9	63	17.2	78	s.	14	6.3	.....	2 ck	0	nw.	.....	0.01	0.3	clear	A. W. Browne.
Lewiston, Idaho	29.00	736.6	29.82	757.4	57.8	14.3	64	ne.	1	0.4	.....	8 k	2 s	e.	.....	inap.	inap.	cloudy	H. S. Blandford.
Little Rock, Arkansas	29.62	752.3	29.93	760.2	65	18.3	90	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.59	751.6	29.98	761.5	62	16.7	93	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.33	745.0	29.88	758.9	65	18.3	73	w.	12	5.4	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	L. M. Dey.
Lynchburg, Virginia	29.12	739.6	29.79	756.7	78	25.6	76	sw.	5	2.2	.....	2 ck	3 ks	sw.	sw.	0.72	18.3	fair	Lou's Duane.
Mackinaw City, Michigan	29.00	736.6	29.64	752.8	51.0	10.6	90	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.43	10.9	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.96	761.0	29.97	761.2	76.0	24.4	97	sw.	22	9.8	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy	William Daly.
Maginnis, Fort, Montana	25.47	646.9	29.80	756.9	42	5.6	76	ne.	14	6.3	.....	.....	10 n	.....	ne.	0.27	6.9	heavy rain.	F. Burke.
Marquette, Michigan	29.01	736.8	29.73	755.1	43	6.1	83	n	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. Gilligan.
Memphis, Tennessee	29.62	752.3	29.95	760.7	72	22.2	76	calm	0	0	.....	.....	hz.	.....	.....	0.01	0.3	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.04	737.6	29.78	756.4	55	12.8	86	nw.	12	5.4	.....	0	0	.....	.....	0.42	10.7	clear	W. Line.
Missoula, Fort, Montana	26.65	676.9	29.91	759.7	50	10.0	80	nw.	3	1.3	.....	.....	10 s	.....	.....	0.15	3.8	threatening.	J. H. Young.
Mobile, Alabama	29.93	760.2	29.97	761.2	78.4	25.8	95	sw.	1	0.4	.....	.....	10 n	.....	sw.	1.04	26.4	light rain	C. A. Read.
Montgomery, Alabama	29.71	754.6	29.94	760.5	75	23.9	98	calm	0	0	.....	.....	10s;fg	.....	.....	1.21	30.7	threatening.	J. B. McLaughlin.
Moorhead, Minnesota	28.59	726.2	29.56	750.8	52	11.1	93	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.05	1.3	light rain	H. White.
Mt. Washington, N. H.	23.65	600.7	29.77	756.1	52.4	11.3	97	s.	52	23.3	.....	.....	10n;fg	.....	s.	1.07	27.2	light rain	S. W. Beall.
Nashville, Tennessee	29.38	746.2	29.94	760.5	72.0	22.2	71	w.	4	1.8	.....	0	0	.....	.....	0.77	19.6	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.56	750.8	29.68	753.0	70	21.1	90	sw.	8	3.6	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	29.65	753.1	29.70	754.4	73	22.8	76	sw.	4	1.8	.....	5 c	0	sw.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.90	759.4	29.95	760.7	79.5	26.4	91	se.	1	0.4	.....	.....	10 ks	.....	sw.	0.78	19.8	cloudy	M. Herman.
New York, New York	29.52	749.8	29.70	754.4	72	22.2	90	s	10	4.5	.....	.....	10 s	.....	s.	0.25	6.3	cloudy	G. E. Franklin.
Norfolk, Virginia	29.80	756.9	29.83	757.7	78.3	25.7	82	sw.	17	7.6	.....	.....	10 ks	.....	w.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	26.75	679.4	29.55	750.6	57.6	14.2	86	nw.	16	7.2	.....	.....	10 s	.....	nw.	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.99	761.7	30.03	762.7	44.0	6.7	83	calm	0	0	.....	.....	10 s	.....	n.	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.55	725.2	29.69	754.1	63.5	17.5	89	calm	0	0	.....	.....	10 n	.....	s.	inap.	inap.	light rain	A. Pollak.
Ooglaamie, Alaska	30.01	762.2	30.03	762.7	26.0	— 3.3	99	ene.	3	1.3	.....	.....	10 n	.....	e.	inap.	inap.	light snow	P. H. Ray.
Oswego, New York	29.14	740.1	29.46	748.3	73.5	23.1	79	s.	11	4.9	.....	0	8 k	.....	sw.	0.10	2.5	cloudy	J. G. Linsley.
Palestine, Texas	29.39	746.5	29.93	760.2	70.0	21.1	87	e.	8	3.6	.....	3 ck	4 k	w.	s.	0.16	4.1	fair	J. W. Byram.
Pensacola, Florida	29.95	760.7	29.98	761.5	77.7	25.4	93	sw.	14	6.3	.....	.....	10 s	.....	sw.	2.67	67.8	cloudy	M. McGauran.
Philadelphia, Pa	29.60	751.8	29.70	754.4	76	24.4	97	sw.	12	5.4	.....	.....	10 ks;fg	.....	sw.	0.51	13.0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.78	451.6	29.60	751.8	27	— 2.8	100	sw.	60	26.8	.....	5 c	2 k	.....	sw.	0	0	fair	H. Hall.
Pioche, Nevada	23.86	606 0	29.66	753.4	64.5	18.1	48	sw.	15	6.7	.....	7 k	0	nw.	.....	0	0	fair	F. R. Day.
Pittsburg, Pennsylvania	28.89	733.8	29.68	753.9	68.5	20.3	78	w.	12	5.4	.....	.....	10 k	.....	w.	0.42	10.7	cloudy	W. A. Reid.
Poplar River, Montana	27.56	700.0	29.66	753.4	.....	.....	.....	nw.	.....	.....	6	5 k	0	nw.	.....	0.21	5.3	fair	W. D. Maxwell.
Port Huron, Michigan	28.82	732.0	29.49	749.0	53.0	11.7	91	w.	20	8.9	.....	.....	10 s	.....	.....	0.43	10.9	cloudy	M. H. Perry
Portland, Maine	29.62	752.3	29.66	753.4	55.0	12.8	86	se.	11	4.9	.....	.....	10n;fg	.....	.....	0.55	14.0	light rain	W. W. Eichelberger
Portland, Oregon	29.90	759.4	29.96	761.0	55.0	12.8	74	n.	2	0.9	.....	.....	10 s	.....	n	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	76	24.4	100	sw.	23	10.3	.....	.....	10 n	.....	sw.	0.18	4.6	light rain	F. P. Chaffee.
Prescott, Arizona	24.70	627.4	29.72	754.9	61.6	16.4	50	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	29.65	753.1	29.68	753.9	64.5	18.1	93	s.	14	6.3	.....	.....	fg.	.....	s.	0	0	dense fog	C. N. Kitchel.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	79	26.1	85	se.	11	4.9	.....	4 c	0	nw.	.....	0	0	fair	W. J. Evans.
Red Bluff, California	29.47	748 5	29.82	757.4	60	15.6	81	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	28.82	732.0	29.47	748.5	71	21.7	84	sw.	11	4.9	.....	1 ck	6 ks	sw.	sw.	0.24	6.1	fair	E. W. McGann.
Roseburg, Oregon	29.40	746.7	29.95	760.7	51.1	10.6	72	nw.	2	0.9	.....	.....	10 s	.....	nw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.77	756.1	29.84	757.9	62.5	16.9	78	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.34	745.2	29.93	760.2	61.5	16.4	93	s.	6	2.7	.....	0	sk.	.....	.....	0.48	12.2	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.05	763.3	30.08	764.0	41	5.0	92	nw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.76	730.5	29.60	751.8	57.5	14.2	93	s.	4	1.8	.....	2 k	6 s	.....	s.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.68	728.5	29.53	750.0	55	12.8	86	sw.	4	1.8	.....	0	0	.....	.....	0.33	8.4	clear	C. B. Dilley
Salt Lake City, Utah	25.35	643.9	29.57	751.1	64	17.8	38	nw.	4	1.8	.....	4 k	0	sw.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.10	739.1	29.78	756.4	76	24.4	90	e.	3	1.3	.....	.....	9 s	.....	.....	0	0	cloudy	J. H. Davis.
San Diego, California	29.86	758.4	29.93	760.2	63.4	17.4	70	s.	5	2.2	.....	.....	10 s	.....	se.	0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	29.66	753.4	29.69	754.1	74.0	23.3	84	sw.	18	8.0	.....	10 k	0	sw.	.....	0.03	0.8	cloudy	B. A. Blundon.
Sanford, Florida	29.99	761.7	.....	.....	82.5	28.1	82	s.	6	2.7	.....	10 c	0	.....	.....	0.67	17.0	cloudy	J. B. Marbury.
San Francisco, California	29.79	756.7	29.86	758.4	59	15.0	87	s.	10	4.5	.....	.....	8s;fg	.....	sw.	inap.	inap.	cloudy	N. Gorom.
Santa Fé, New Mexico	23.16	588.3	29.67	753.6	55	12.8	46	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.94	760.5	30.04	763.0	78	25.6	85	sw.	7	3.1	.....	.....	10 ks	.....	sw.	0.27	6.9	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.33	668.8	29.90	759.4	44	6.7	93	nw.	9	4.0	.....	.....	10 k	.....	n.	0.28	7.1	cloudy	A. L. Mathews
Shreveport, Louisiana	29.67	753.6	29.90	759.4	70.5	21.4	85	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.61	726.7	29.81	757.2	63.5	17.5	89	s.	8	3.0	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Sitka, Alaska	30.16	766.1	30.22	767.6	47.1	8.4	89	nw.	3	1.3	.....	.....	10 s	.....	nw.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.44	747.8	29.90	759.4	62.5	16.9	88	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville North Carolina	29.94	760.5	29.98	761.5	79	26.1	88	sw.	13	5.8	.....	.....	10 s	.....	sw.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	30.00	762.0	51	10.6	86	ne.	4	1.8	.....	3 c	4 s	.....	.....	0.60	15.2	fair	John F. Hemenway.
Springfield, Illinois	29.20	741.7	29.87	758 7	60	15.6	87	calm	0	0	.....	0	0	.....	.....	0.05	10.5	clear	T. B. Jennings.
Starkville, Miss	29.50	749.3	29.97	761.2	74	23.3	76	n.	4	1.8	.....	0	3 k	.....	n.	inap.	inap.	clear	C. Dill.
Stockton, Fort, Texas	26.85	682.0	29.77	756.1	67	19.4	78	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.12	688.8	29.75	755.6	74	23.3	54	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Toledo, Ohio	28.98	736.1	29.66	753.4	60	15.6	75	w.	23	10.3	.....	.....	10 s	.....	w.	0.29	7.4	cloudy	A. Buell.
Tucson, Arizona	27.45	697.2	29.75	755.6	73	22.8	51	s.	6	2.7	.....	1 k	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	30.06	763.5	30.08	764.0	42	5.6	82	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	72	22.2	16	se.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.70	754 4	29.95	760.7	74.8	23.8	78	n.	2	0.9	.....	6 k	0	n.	.....	0.01	0.3	fair	James Kenealy.
Visalia, California	29.46	748.3	29.83	757 7	64.0	17.8	69	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.25	615.9	29.63	752.6	46.5	8.1	88	calm	0	0	.....	2 c	4 k	w.	se.	0	0	fair	T. M. Ambler.
Washington, D. C.	29.62	752.3	29.73	755.1	76.2	24.6	85	sw.	10	4.5	.....	8 k	0	sw.	.....	1.32	33.5	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.74	653.8	29.51	749.5	57	13.9	78	w.	6	2.7	.....	0	4 s	.....	w.	0	0	fair	F. H. Brandenburg.
Williamsport, Pa	29.02	737.1	29.62	752.3	75.5	24.2	83	calm	0	0	.....	.....	10 ks	.....	w.	0.42	10.7	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.92	760.0	29.97	761.2	77.0	25.0	90	sw.	20	8.9	.....	.....	10 n	.....	w.	0.04	1.0	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.40	645.1	29.66	753.4	52	11.1	64	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.28	718.3	29 56	750.8	64	17.8	73	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.58	751.3	29.72	754.9	73.9	23.3	70	s.	5	2.2	.....	2 cs	0	nw.	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.04	763.0	79	26.1	75	calm	0	0	.....	8 cs	2 s	.....	.....	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	se.	.....	.....	2	4 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.40	746.7	29.96	761.0	79	26.1	95	calm	.....	.....	0	1 c	2 k	calm	s.	0.02	0.5	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	97	ne.	.....	.....	1	cs	.....	.....	.....	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallot
York Factory, B. A.	29.70	55.9	29.82	757.4	40.5	4.7	96	sw.	8	3.6	.....	2 c	2 s	s.	s.	inap.	inap.	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 45° 11′, E. 14° 17′	29.96	761.0	79	26.1	74	calm			0		3	ssw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.16	766.1	75.5	24.2	84	ssw.			2		3	ssw.						d. clouds.
H. M. S. Gannet, N. 23° 50′, W. 21° 20′	30.11	764.8	72.5	22.5	69	nne.			3		4					2	var.	d. clouds.
H. M. S. Himalaya, N. 34° 36′, E. 33° 02′	29.82	757.4	82	27.8	75	sw.			2		1							blue sky.
H. M. S. Iris, Port Said, Egypt	29.87	758.7	75	23.9	95	wnw.			3		1							blue sky.
H. M. S. Monarch, 45° 30′, E. 13° 30′	29.90	759.4	72	22.2		ssw.			3		3	ese.				1	ssw.	d. clouds.
H. M. S. Minotaur, Vigo Bay, Spain	30.17	766.3	64	17.8	75	ne.			1		8	w.						d. clouds.
H. M. S. Opal, N. 12° 06′, W. 21° 24′	30.02	762.5	79	26.1	82	nne.			3		0					3	nne.	blue sky.
H. M. S. Satellite, N. 34° 39′, W. 14° 30′	30.22	767.6	68	20.0	74	nne.			2		4	nne.				4	wsw.	d. clouds.
H. M. S. Tyne, N. 8° 27′, W. 30° 41′	29.99	761.7	79	26.1	82	ene.			4		8	ene.				3	ene.	d. clouds.
H. M. S. Tenedos, St. John's, N. F.	30.05	763.3	44	6.7	92	ene.			1		9	e.						raining.
H. S. M. S. Eugenie, N. 50° 15′, W. 4° 13′	30.16	766.1	62.4	16.9	79	calm	0	0			10							overcast.
U. S. Navy Yard, Portsmouth, N. H *	29.63	752.6	60	15.6	88	e.	5	2.2			10		e.	0.6	15.			foggy.
U. S. S. Lancaster, Kronstadt, Russia	30.01	762.2	77	25.0	65	sse.			1		2		ese.			sm'h		fair.
U. S. S. Nipsic, Tompkinsville, Staten Island, N. Y*	29.65	753.1	73	22.8	100	ssw.			3		8							cloudy.
U. S. S. Portsmouth, Conimicut, R.I.	29.72	754.9	63	17.2	94	ssw.			3		10							foggy.
U. S. S. Powhatan, Port Royal, S. C.	29.99	761.7	80	26.7	91	ssw.			2		10		sw.					cloudy.
U. S. S. Quinnebaug, N 1° 11′ E. 6° 33′	29.97	761.2	79	26.1	78	sw.			3		5		s.			sm'h	var.	fair.
U. S. S. Saratoga, Poughkeepsie, N. Y	29.67	753.6	76	24.4	91	s.			2–3		5?		s.	light	light	sm'h		cloudy?
U. S. S. Vandalia, N. 33° 09′ W 67° 37′	30.20	767.1	75	23.9	95	sw.			3		5		sw.			sm'h		fair.
Inchkeith, N. 46° 55′, W. 21° 39′	30.33	770.4	60.9	16.1	85	ese.			2–3		3							d. clouds.
H.P.M.S. Rio Lima, Porto Praya, Cape Verd Islands			77.0	25.0	84	ne.			3		0					3	se.	blue sky.
S. S. Illinois, N. 39° 08′, W. 65° 43′	29.97	761.2	75	23.9		ssw.			4		5		sw.			sm'h	sw.	fine.
S. S. Lord Gough, N. 48° 04′, W. 24° 26′	30.26	768.6	65	18.3		sse.			4		10		sse.	0	0	sm'h		cloudy.
S. S. Ohio, Liverpool, Eng †	30.22	767.6	56	13.3		nw.			1		5		w.	0	0	sm'h	nw.	hazy.
S. S. Pennsylvania, Philadelphia, Pa†	29.80	756.9	68	20.0		wsw.			2		3		sw.	0	0			clear.
S. S. British Princess, N. 51° 09′, W. 12° 58′			58	14.4		n			2		1		nw.	0	0	sm'h	sw.	clear.
S. S. Circassian, N. 53° 45′, W. 27° 45′	30.00	762.0	50	10.0	100	wsw.			3		10					3	sw.	foggy.
S. S. Grecian, N. 48° 52′ W. 63° 41′	29.90	759.4	44	6.7	92	e.			3		10			6 h'r	6 h'r	sm'h		overcast.
S. S. Nova Scotian, N. 49° 56′ W. 43° 32			57	13.9		e.			4		10		ese.			sm'h		cloudy.
S. S. Scandinavian, N. 51° 38′, W. 23° 43′	30.20	767.1	54	12.2		ssw.			2		9					light	ssw.	foggy.
S. S. Prussian, Glasgow, Scotland	30.08	764.0	57	13.9		wnw.			4		5		nw.					
S. S. Jason, N. 42° 14′ W. 49° 47′						e.			1–2		8 n						nw.	gloomy.
S. S. Alvo, St. Mark, Hayti, W. I *	29.97	761.2	82	27.8		calm			0		6		calm	2 h'r	2 h'r			fine.
S. S. Assyria, N. 50° 40′, W. 6° 19′	30.22	767.6	59	15.0		ne.			4		8		ne.			sm'h		misty.
S. S. Devonia, N. 40° 35′, W. 69° 10′ *†	29.78	756.4	60	15.6		ssw.			3		0					slt't	s.	foggy.
S. S. Furnessia, Liverpool, Eng†	30.16	766.1	64.8	18.2	96	nnw.			2		8		nw.	0	0			cloudy.
S. S. Elysia, N. 54° 05′, W. 18° 50′	30.12	765.0	57.8	14.3		sw.			4		10		sw.	0	0	mod.	sw.	cloudy.
S. S. Carroll, N. 42° 27′, W 70° 37′ *†	29.78	756.4	69	20.6	100	sw.			2		6		sw.; w.	rain	rain	short	sw.	dense fog.
S. S. Llandaff City, N. 51° 20′, W. 7° 25′			56	13.3		ne.			5		3		ene.	0	0	sm'h		fair.
S. S. Gallia, N. 51° 13′, W. 15° 54′	30.22	767.6	60	15.6	71	sw.			3		2		s.	0	0	sm'h		clear.
S. S. Marathon, N. 37° 09′ E. 2° 10′	29.97	761.2	70	21.1		w.			2		3		w.	1 h'r	1 h'r	sm'h	w.	fine.
S.S. Pavonia, N. 45° 15′, W. 39° 52′	29.89	759.2	65	18.3	89	ene.			1		8		ene.	0	0	slt't	ese.	cloudy.
S. S. Scythia, N. 40° 48′ W. 68° 10′	29.80	756.9	58	14.4	100	sw.			1		10			0	0	slt't	sw.	foggy.
S. S. Colina, N. 48° 54′, W. 69° 32′†	29.65?	753.1?				e.			4		8		e.	0	0	chop	e.	overcast.
S. S. Rhiwindda, N. 44° 45′, W. 53° 05′*†	29.90	759.4	53	11.7		se.			5		9		sse.	4 h'r	4 h'r	sm'h		rain & fog.
S. S. Ville de Marseilles, N. 49° 19′, W. 3° 30′*	30.16	766.1	49	9.4		ne.			3		9		ne.	mist	mist	sm'h		misty.
S. S. Abyssinia, N. 46° 52′, W. 37° 09′	30.01	762.2	60	15.6	100	se.			2		10		se.	3 h'r	3 h'r	sm'h		foggy.
S. S. Wisconsin, N. 51° 12′, W. 17° 00′	30.18	766.6	60	15.6		ssw.			2		3		ssw.	0	0	sm'h		fair.
S. S. Bohemia, N. 40° 16′, W. 62° 30′						wsw.			3		10			0	0	sm'h	wsw.	overcast
S. S. Gellert, N. 40° 40′, W. 68° 02′	29.78	756.4	72	22.2	95	sw.			3		10		w.	0	0	mod.	nw.	covered.
S. S. Rugia, N. 56° 30′, E. 1° 50′	30.15	765.8	56	13.3		nnw.			5		4		n.	0	0	mod.	nnw.	fair.
S. S. Silesia, N. 49° 19′, W. 9° 03′	30.22	767.6	60.5	15.8		e.			4		7		ne.	0	0	4	ne.	cloudy.
S. S. Wieland, N. 50° 20′, W. 4° 09′	30.29	769.4				calm			0		8			0	0	sm'h		hazy.
S. S. City of Berlin, N. 45° 02′, W. 44° 20′	30.01	762.2	60	15.6	94	nw.			2		10		e.	10 h'r	10 h'r	slt't	e.	dense fog.
S. S. City of Paris, N. 40° 15′, W. 61° 17′†*	29.89	759.2				sw.			2		5?		sw.	0	0	mod.	e.	cloudy?
S. S. Bulgarian, N. 42° 58′, W. 60° 17′*	29.93	760.2				sw.			1		fg.			0	0	light	sw.	dense fog.
S. S. Virginian, N. 42° 23′ W. 67° 27′			62	16.7		sw.			6		0			½ h'r	½ h'r	sm'h		clear.
S. S. Archimedes, N. 40° 28′, W. 69° 56′	29.67	753.6				ssw.			4		10		ssw.	0	0	mod.	ssw.	dense fog.
S. S. Hevelius, N. 27° 00′, W. 21° 00′			72	22.2		ne.			2		3		ne.	0	0	sm'h		clear.
S. S. Ptolemy, N. 35° —′ W. 15° —′	30.26	768.6	71.5	21.9	53	ne.			3	c	6 k			0	0	3	n.	fair.
S. S. Colorado, N. 36° 16′, W. 74° 36′ †	29.95	760.7	65	18.3		ssw.			4		8		ssw.	0	0	high	ssw.	cloudy.
S. S. Chalmette, N. 34° 36′, W. 75° 10′†	30.12	765.0	78	25.6		ssw.			5		9		ssw.	½ h'r	½ h'r	mod.	ssw.	cloudy.
S. S. Hermod, N. 28° 45′, W. 63° 40′†	30.26	768.6	79	26.1		ene.			1		1		ne.	0	0	sm'h	ne.	clear.
S. S. Allegheny, N. 37° 30′, W. 75° 13′†	29.71	754.6	70	21.1		sw.			5		5		w.			light	sw.	fair.
S. S. City of Merida, N. 21° 20′, W. 89° 40′†	29.91	759.7	81	27.2		ne.			1		10		ne.	1 h'r	1 h'r	light	e.	overcast.
S. S. City of Washington, N. 31° 32′ W. 79° 03′†	30.13	765.3	81	27.2		s.			3		5		s.	0	0	light	s.	fair.
S. S. Denmark, N. 40° 50′, W. 62° 00′†	29.98	761.5	73	22.8		wsw.			4		10		w.	14 h'r	14 h'r	slt't	w.	showery.
S. S. Egypt, N. 40° 38′, W. 61° 48′	29.95	760.7	74	23.3		ssw.			2		8		ssw.	2 h'r	2 h'r	mod.	sw.	cloudy
S. S. England, off Fire Island, N. Y	29.68	753.9	70	21.1		wsw.			4		5		wnw.	0	0	mod	wsw.	fair.
S. S. Erin, N. 48° 07′. W. 26° 59′	30.31	769.9	59	15.0		sw.			6		6		sw.	0	0	mod.	w.	fair.
S. S. Helvetia, N. 47° 50′, W. 34° 45′	30.05	763.3	60	15.6	100	s.			4		10		s.	0	0	sm'h	s.	overcast.
S. S. The Queen, N. 49° 44′ W. 20° 08′	30.25	768.3	60	15.6	?	sw.			2		0			0	0	sm'h		clear.
S. S. Braunschweig, N. 40° 03′, W. 65° 56′	29.89	759.2	79.07	26.11	91	wsw.			3		10		wsw.	4 h'r	4 h'r	sm'h	w.	cloudy.
S. S. Fulda, N. 46° 06′, W. 37° 01′	30.01	762.2	60	15.6	94	sw.			2		10		sw.	0	0	sm'h	w.	misty.
S. S. Habsburg, N. 43° 52′, W. 42° 38′	30.02	762.5				wnw.			3		10		wnw.	0	0	sm'h	nw.	hazy.
S. S. Hohenstaufen, N. 40° 06′, W. 59° 49′	29.95	760.7				sw.			4		7		wsw.	1 h'r	1 h'r	mod.	wsw.	drizzling.
S. S. Hermann, N. 47° 56′, W. 25° 42′	30.26	768.6	63	17.2	83	ssw.			4		5		ssw.	0	0	mod.	ssw.	fair.
S. S. Main, N. 44° 23′, W. 40° 48′	29.95	760.7	66	18.9		e.			1		4			1 h'r	1 h'r	sm'h		fair.
S. S. Strassburg, N. 48° 26′, W. 19° 57′	30.33	770.4	60.5	15.8	85	s.			1		4		calm	0	0	2	sse.	clear.
S. S. City of Augusta, N. 33° 10′, W. 78° 38′†	30.08	764.0				ssw.			4		6		ssw.	0	0	sm'h		fair
S. S. Colon, New York, N. Y †	29.68	753.9	71	21.7		sw.			3					0	0			
S. S. Muriel, Barbadoes, W. I.	30.11	764.8	81	27.2		e.			3		10		e.	0	0	sm'h		overcast.
S. S. Orinoco, New York, N. Y†	29.70	754.4	74	23.3		sw.			3		10			1 h'r	1 h'r			cloudy.
S. S. Belgenland, N. 40° 18′, W. 68° 30′			60	15.6	100	ssw.			5		0			0	0	sm'h		dense fog.
S. S. Nederland, N. 49° 45′, W. 7° 05′			57	13.9		n.			4		8		n.	0	0	mod	n.	cloudy.
S. S. Rhynland, Antwerp, Belgium	30.11	764.8	59	15.0	82	n.			3		4		ne.	7 h'r	7 h'r			rainy.
S. S. Pennland, N. 47° 38′ W. 22° 21′	30.31	769.9	59	15.0	82	sse.			2		3		sse.	0	0	sm'h		misty.
S. S. Waesland, N. 41° 32′, W. 56° 29′	29.99	761.7	67	19.4		w.			4		10		w.	0	0	long	sw.	dense fog.
S. S. P. Caland, Jersey City, N. J	29.69	754.1	74.8	23.8	93	sw.			2		3		sw.					clear.
S. S. Rotterdam, N. 49° 41′. W. 7° 56′	30.28	769.1	59	15.0	82	nne.			5		7		nne.	0	0	4	nne.	fair.
S. S. Schiedam, N. 49° 43′, W. 6° 22′	30.18	766.6	59	15.0	88	n.			3		6		nw.	0	0	mod.	nw.	hazy.
S. S. W. A. Scholten, Rotterdam, Holland	29.96	761.0	59.0	15.0	88	nnw.			2		9		nw.	0	0			cloudy.
S. S. Balize, N. 28° 12′, W. 73° 24′*†	30.23	767.8	78	25.6		se.			3		1		se.	0	0	long	se.	clear.
S. S. Caracas, Curacao, W. I†	30.02	762.5	81.5	27.5	87	ese.			4		8		ese.	½ h'r	½ h'r	mod.	se.	showery
S. S. State of Indiana, N. 42° 40′, W. 60° 56′ *†	29.75	755.6	58	14.4		w.			3		10			0	0	sm'h		foggy.
S. S. State of Nebraska, N. 41° 38′, W. 49° 15′*†	30.03	762.7	46?	7.8?					1		5			0	0	sm'h		foggy.
S. S. Thingvalla, N. 42° 05′, W. 54° 27′ †	29.95	760.7	53.6	12.0		sse.			3		6		ese.	0	0	mod.	sse.	fair.
S. S. Toledo, N. 37° 19′, W. 9° 30′*†	30.20	767.1	65	18.3		nnw.			5		2		n.	0	0	slt't	w.	clear.
S. S. Romano, N. 44° 15′, W. 37° 26′†	30.00	762.0	63	17.2		ssw.			3		10		ssw.	3 h'r	3 h'r	mod.	s.	overcast.
S. S. Dominion, N. 56° 56′, W 37° 05′ *†	29.96	761.0	51	10.6		w.			4		10		w.			mod.	w.	cloudy.
S. S. Lake Huron, N. 52° 29′, W. 24° 40′	30.08	764.0	54	12.2		ssw.			4		fg.		sw.			mod.	sw.	foggy.
S. S. Lake Manitoba, N. 46° 20′, W. 34° 00′	29.91	759.7	44	6.7		ese.			4		10			23 h'r	23 h'r	sm'h		rain & fog.
S. S. Daniel Steinmann, N. 49° 44′, W. 39° 08′†	30.05	763.3	52	11.1		n.			4		9		n.	0	0	mod.	n.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Plantyn, N. 48° 20′, W. 22° 35′	30.15	765.8							1		4		se.	0	0	sm'h	sse.	fair.
S. S. Norman, N. 39° 56′, W. 75° 08′						wnw.			5		0			3 h'r	3 h'r			clear.
S. S. Saxon, Boston, Mass†	29.67	753.6				sw.			5		10							raining.
S. S. Celtic, N. 44° 00′, W. 48° 00′†	30.03	762.7	60	15.6		ne.			2		10			0	0	sm'h		foggy.
S. S. Antonio Lopez, Cadiz, Spain	30.08	764.0	66.5	19.2	76	w.			3		2			0	0			clear.
Schr. Abbie H. Gheen, N. 36° 45′, W. 74° 45′			80	26.7		sw.			5		0					mod.		squally.
Bk. Aquidneck, N. 33° 17′, W. 51° 43′*†	30.10	764.5				nw.			3					0	0	light	n.	clear.
Bg. Alcira, N. 39° 37′, W. 74° 01′	29.74	755.4	74	23.3		s.			4		fg.		sw.				s.	foggy.
Schr. Anna A. Holton, N. 35° 20′, W. 72° 59′*†	30.06	763.5	82	27.8		ssw.			7		8		sw.	0	0	cross	ssw.	fair.
Schr. Arthur Burton, N. 39° 00′, W. 73° 26′ †	29.79	756.7				ssw.			3		8		wsw.	0	0	r'gh	ssw.	threatening.
Bk. Aureola, N. 41° 04′, W. 38° 24′ †	29.87	758.7	72	22.2		e.			5		6		ese.	3 h'r	3 h'r	mod.	e.	fair.
Bk. Arda, Sackville, N. B†	29.75	755.6				wsw.			3		3		wsw.	0	0			foggy.
Bk. Alba, N. 42° 43′, W. 61° 26′ *†	29.91	759.8	56.1	13.4		ssw.			2					0	0			
Bg. Belle of the Bay, N. 29° 07′, W. 92° 12′†	29.95	760.7				s.			2		3		sse.	0	0	long	se.	clear.
Schr. C. R. Flint, N. 22° 40′, W. 95° 04′ †	29.88	758.9	83	28.3		ese.			3		2		sse.	0	0	short	sse.	fair.
Bk. Childwall, N. 49° 00′, W. 5° 51′			58	14.4		nne.			4		hz		nne.	0	0	small		hazy
Bk. Cato, Bodöe, Norway *†	30.01	762.2				nw.			2									
S. Criterion, N. 43° 50′, W. 48° 30′ *†	30.05	763.3				ne.			1		9		wnw.	sh'rs	sh'rs	light	ene.	misty.
Schr. Clotilde, Tampico Bar, Mexico *†	29.83	757.7	85	29.4		calm			0		2		se.	0	0	sm'h	ese.	clear.
S. David Stewart, N. 6° 05′, W. 27° 10′ †	29.88	758.9				var.			2		hz			0	0	mod.	ne.	
S. S. D. J. Foley, Cape Henlopen, Del.*†	29.80	756.9	77	25.0	82	wsw.			5		6		wsw.	0	0	short	wsw.	fair.
Bkt. David A. Preston, N. 19° 45′, W. 73° 45′						e.			3		2		e.	0	0	mod.	ne.	
S. E. J. Spicer, N. 45° 21′, W. 38° 30′	30.00	762.0	64	17.8	94	s.			2		10		sw.	12 h'r	12 h'r	mod.	s.	cloudy.
Bk. E. D. Bigelow, N. 52° 13′, W. 5° 10′*†	30.12	765.0	62	16.7		nne.			5		7		e.	0	0	sm'h		hazy.
U. S. Fish Com. S. S. Fish Hawk, Hampton Roads, Va†.	30.03	762.7	77	25.0	91	ssw.			5		10		s.	0	0			cloudy.
Sch. F. E. Waters, N. 36° 09′, W. 75° 25′*†	29.95	750.7				s.			2				sw.	2 h'r	2 h'r	long	s.	squally.
Bgt. George, N. 30° 13′, W. 63° 28′*†	30.21	767.3	79	26.1		wsw.			2		2		sw.	0	0	mod.	sse.	fair.
Bk. Galeon, N. 23° 35′, W. 85° 30′ †	30.00	762.0	82	27.8		se.			3		3		se.	0	0	mod	s.	squally.
Bk. Heinrich & Tonio, N. 45° 24′, W. 27° 20′ †	30.29	769.4	68	20.0		sse.			4		0			0	0	mod.	ssw.	clear.
S. Hedwig, N. 36° 47′, E. 12° 34′	29.98	761.4	70.7	21.5	95	ene.			1		1		ene.	0	0	1	se.	
Bk. Hattie G. McFarland, Port Royal, S. C†.	30.03	762.7	78	25.6		ssw.			2		9		s.	4 h'r	4 h'r			threatening
Bk. Horace Scudder N. 6° 12′, W. 37° 40′ *†	30.05	763.3	81	27.2		ne.			4		1		ene.	5 h'r	5 h'r	long	ne.	
Schr. Isabel Alberto, N. 38° 55′, W. 73° 38′†	29.84	757.9				sw.			4		8		sw.	0	0	high	sse.	cloudy.
Bk. Johanne, N. 44° 04′, W. 17° 54′ *†	30.32	770.1	64	17.8		e.			2		2		ene.	0	0	sm'h		clear.
Schr. John L. Thomas, Vivorilla Cays, C. A *†	30.02	762.5				e.			3		2		ese.	½h'r	½h'r			fair.
Bg. John Wesley, N. 29° 00′, W. 39° 25′ *†	29.90	759.4	75	23.9		n.			4		5		nnw.	6 h'r	6 h'r	mod.	nnw	squally.
Schr. Jennie N. Huddell, Charleston, S. C.†	30.02	762.5	83	28.3	87	sw.			1		5		wsw.	0	0			fair.
S. J. W. Gildemeister, N. 35° 28′, W. 54° 03′	30.11	764.8	76.1	24.5	83	wnw.			4		8 k		wnw.	0	0	3	wnw.	overcast.
Bg. L. & W. Armstrong, N. 30° 55′, W. 61° 10′ *†	30.30	769.6				w.			2		1		sw.	0	0	sm'h	nnw	clear.
Light-house Tender Laurel, Key West, Fla†	30.03	762.7	84	28.9		se.			1-2		6		se.	0	0			fair.
Bg. Lillan, Delaware Breakwater, Del.†	29.75	755.6	78	25.6		wsw.			5		7		wsw.	0	0			cloudy.
Bk. Louise Adelaide, Matanzas, Cuba, W. I†	30.06	763.5	79	26.1		calm			0		hz			2 h'r	2 h'r			fair.
Bk. Milo, N. 44° 20′, W. 47° 10′†	30.00	762.0				nne.			1				n.			sm'h		overcast.
S. S. Madrid, N. 35° 58′, W. 16° 55′†	30.27	768.8	65	18.3	83	ne.			3		0			0	0	sm'h	n.	clear.
Schr. Minnie A. Bonsall, Bridgeport, Conn.†	29.72	754.9	78	25.6		wsw.			2				s.	0	0			clear.
Bk. Matilda C. Smith, N. 49° 08′, W. 6° 30′ †	30.26	768.6				n.			5		7		nne.	0	0	mod	nw.	fine.
Bgt. Myrtle, Barbadoes, W. I *†	30.11	764.8				e.			5					0	0			fair.
Schr. Maggie Abbott, Baracoa, Cuba†	29.89	759.2									2		calm	0	0			clear.
Bk. National Eagle, N. 37° 36′, W. 34° 40′						e.			1		2		e.	0	0	mod.	sse.	clear.
Bg. O. C. Clary, N. 30° 23′, W. 61° 17′ *†	30.24	768.1				nw.			1		0					sm'h	nne.	clear.
Bk. Ottawa, N. 50° 00′, 0° 00′	30.07	763.8	59	15.0		ne.			4		4		ne.	2 h'r	2 h'r	small	ne.	fair.
S. Paramita, N. 20° 26′, W. 38° 06′†	30.07	763.8	85	29.4		n.					2		nw.	0	0	long	n.	clear.
S. S. Raleigh, off Absecum, N. .†	29.87	758.7	65	18.3		sw.			5		9		sw.	0	0	light	sw.	threatening
S. Rudolph, N. 49° 55′, W. 4° 17′			59.5	15.3		nnw.			2-3		1		ne.	0	0	sm'h	n.	hazy.
Bg. Rising Sun, Barbadoes, W. I.†	30.01	762 2	82	27.8		e.			4					hv'y	hv'y			rainy.
Bk. Rosino, N. 42° 10′, W. 21° 32′			67	19.4		se.			4		8		ese.	0	0	mod.	ne.	cloudy.
Bk. Sunbeam, N. 39° 41′, W. 40° 08′†	29.93	760.2	68	20.0	84	ene.			5		10		ene.	2 h'r	2 h'r	mod.	e.	cloudy.
Bk. Southern Belle, N. 25° 30′, W. 43° 08 †	30.07	763.8	74	23.3		wnw.			3					0	0	mod.	n.	clear.
S. Sovereign of the Seas, N. 34° 23′, W. 51° 44′*†	30.22	767.6	75	23.9	90	wnw.			3		9		wnw.	light	light	mod.	nw.	hazy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I *†	30.04	763.0	79	26.1		sw.			2		5		se.	2 h'r	2 h'r			fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†	30.07	763.8	58	14.4	94	n.			3		4		n.					d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.92	760.0	64	17.8		w.			1		4							d. clouds
H. M. S. Sylvia, Buenos Ayres, La Plata	30.04	763.0	55	12.8	90	nw.			1		7		calm					d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.09	764.3	51	10.6	93	nnw.	6	2.7			8		calm	0	0	sm'h		fair.
U. S. S Galena, Montevideo, Uruguay*.	30.06	763.5	51	10.6	86	nnw.			2		8					sm'h		fair.
S. Wm. McGilvery, S. 29° 09′, W. 45° 59′ *†	30.20	767.1	68	20.0	69	ssw.			2		5		ssw.	0	0	sm'h		
May Hulse, S. 9° 10′, W. 26° 18′	30.06	763.5	77.2	25.1	82	ene.			5		0							showery.
S. S. Olbers, N. 11° 25′, W. 36° 21′ †	30.17	766.3	88	31.1	76	ese.			3		6		se.	4 h'r	4 h'r	sm'h		fair.
Bk. Achille F, S. 18° —′, W. 35° —′ †	30.17	766.3	76	24.4	82	ese.			5		3		se.	0	0	mod.	se.	clear.
Bk. Alpheus Marshall, S. 16° 51′, W. 3° 30′ *†	30.03	762.7				ese.			2		8		ese.	0	0	str'g	s.	cloudy.
Bk. Ceylon, S. 27° 58′, E. 8° 21′ *†	30.39	771.9	67	19.4	79	wsw.			5		2		wsw.	0	0	mod.	sw.	clear.
S. Dynomene, S. 21° 40′, E. 5° 12′	30.12	765.0	68	20.0	84	s.			5		7			sli't	sli't	mod.	s.	fair.
Bk. Adelaide, S. 20° 14′, W. 38° 51′*†	30.28	769.1	80	26.7		ne.			3		2		ene.	0	0	mod.	e.	clear.
H. P. M. S. Duque de Terceira, Mossamedes, Beng'la.	29.99	761.8	69.8	21.0	77	w.			2		0			0	0	1	sw.	blue sky
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.98	761.5	76	24.4	52	se.			1		1		e.					misty.
H. M. S. Champion, N. 6° 30′, E. 116° 00′	29.80	756.9	84	28.9	91	sw.			2		9					1	w.	d. clouds.
H. M. S. Espiegle, N. 4° 27′, E. 172° 34′	29.87	758.7	74	23.3	?	sw.			1		9					1	sw.	showery.
H. M. S. Flying Fish, N. 37° 28′, E. 126° 34′	29.96	761.0	69	20.6	90	wsw.			1		3							misty.
H. M. S. Magpie, N. 5° 52′, E. 115° 50′	29.87	758.7	78.7	25.9	100	wnw.			2		9					3	w.	d. clouds.
H. M. S. Sheldrake, N. 5° 08′, E. 115° 59′			83	28.3		w.			2		3					4	sw.	d. clouds.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	30.04	763.0	71	21.7	85	calm			0		2							d clouds.
H. P. M. S. Tamega, Macao, China	29.71	754.7	83.3	28.5	83	s.			4		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.20	767.1	63	17.2	83	calm			0		10			0	0			gloomy.
U. S. S. Adams, Sitka, Alaska †	30.21	767.3	49	9.4	93	wsw.			1		10							cloudy.
H. M. S. Essex, N. 14° 25′, W. 143° 32′	29.95	760.7	75	23.9	86	ne.			5		2		ne.			sm'h	nne.	clear
U. S. S. Hartford, Honolulu Sandwich Ids*	30.02	762.5	76	24.4	77	calm			0		0							clear.
U. S. S. Monocacy, Salee river, Corea	29.99	761.7	68	20 0	84	wnw.			2		2		w.					misty.
U. S. S. Palos, Hong Kong, China	29.60	751.8	82	27.8	75	e.			1		2		se.					clear.
U. S. S. Richmond, Amoy, China *	29.61	752.1	80	26.7	91	ne.			4		8		ne.	0	0			cloudy.
S. S. Arabic, N. 47° 57′, W. 159° 43′			43	6.1	100	sw.			3		10		sw.	rain	rain	sm'h		hazy.
S.S. Oceanic, Yokohama, Japan	30.15	765.8	70	21.1	75	var.			2.		4							fair.
S. S. Oregon, San Francisco, Cal.†	29.88	758.9	60	15.6	94	calm			0		10							gloomy.
S. S. Willamette, N. 46° 05′, W. 124° 16′†	30.10	764.5	51	10.6	93	n.			1		0			0	0	sm'h		hazy.
S. S. Ancon, N. 37° 24′, W. 122° 34′†	29.86	758.4	58	14.4	94	se.			3		10					mod.	sw.	misty.
S. S. City of Chester, San Francisco, Cal.†	29.83	757.7	58	14.4	88	sw.			4		8					long		cloudy
S. S. Dakota, N. 40° 40′, W. 124° 38′†	29.95	760.7	52	11.1	86	wnw.			6		3		nw.			mod.	wnw.	hazy.
S. S. Queen of the Pacific, San Francisco, Cal †	29.88	758.9				sw.			2		5			0	0			fair.
S. S. City of New York, N. 36° 09′, W. 126° 21′†	29.86	758.4	55	12.8	68	nnw.			5		10		nnw.	0	0	h'vy	nw.	hazy.
S. S. City of Rio de Janeiro, N. 28° 01′, E. 123° 31′†	29.67	753.6	77	25.0	91	n.			6		10		ne.	rain	rain	long	ne.	drizzling.
S. S. Colima, N. 15° 37′, W. 96° 30′ †	29.92	760.0	83	28.3	75	calm			0		9		calm	0	0	small	s.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Granada, N. 15° 50′, W. 97° 27′ †..	29.88	758.9	82	27.8	83	w.			1		3		w	5 h'r.	5 h'r	sm'h	w.	fair.
S. S. San Blas, Panama, Panama			82	27.8		var.			1		7		nw.	0	0			fair
S. S. Zealandia, N. 37° 48′ W. 125° 30′	29.92	760.0	60	15.6	88	ne.			5		0					mod.	ne.	clear.
S. S. Benledi, N. 31° —′, E. 122° 30′*	29.89	759.2	70	21.1	95	wsw.			2-3		6		s.	0	0	mod.	sse.	foggy.
S. S. Radnorshire, Hiogo, Japan*†	30.02	762.5				ese.			2					0	0			clear.
S. Sacramento, N. 11° 00′, E. 121° 50′ *†	29.92	760.0	82	27.8	75	n.			6		10		n.	3 h'r	3 h'r	sm'h		squally.
S. St. David, N. 12° 48′ E. 112° 47′*†	29.73	755.1	85	29.4	87	sw.			5		5		sw.	0	0	short	sw.	hazy.
Bk. Xenia, Shanghai, China			77	25.0		e.			2		9		nw.	0	0			cloudy.
H. M. S. Sappho, Acapulco, Mexico	29.85	758.2	82	27.8	100	w.			1		3	nw.						d. clouds.
U. S. S. Ranger. Acajutla, San Salvador	29.92	760.0	80	26.7	82	nne.			1		5		nne.	0	0	sm'h		fair.
S. Henry Failing, N. 33° 35′, W. 119° 10′†	29.85	758.2	62	16.7		s.			2		5		s.	2 h'r	2 h'r	sm'h	w.	fair.
S. Grecian, Yokohama, Japan †	30.17	766.3	66	18.9	84	ene.			4		0			0	0			clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W			58	14.4	70	calm			0		2	sw.						d. clouds
H. M. S. Kingfisher, S. 32° 56′, W. 121° 02′	29.80	756.9	65	18.3		w.			6		6					5	sw.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids, Oceania	29.73	755.1	75	23.9	86	calm			0		10							raining.
U. S. S. Iroquois, Valparaiso, Chili	30.14	765.5	56	13.3	87	nne.			2		10							drizzling.
U. S. S. Lackawanna, S. 22° 22′, W. 88° 41′*	30.11	764.8	67	19.4	84	nne.			1		8		e.			sm'h	ssw.	cloudy.
U. S. S. Onward. Callao Peru†	30.13	765.3	65	18.3	84	n.			1		10							cloudy.
U. S. S. Pensacola, Callao, Peru*..	29.96	761.0	65	18.3	89	ne.	1	0.4			10			0	0			misty.
U. S. S. Wachusetts, Tahiti Id, Society Ids*†	30.10	764.5	76	24.4	86	s.			1		0					sm'h		clear.
S. S. Australia, Sydney, N. S. W	30.43	772.9	49	9.4	93	nw.			1		4		nw.	0	0			fair.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.92	760.0	80.3	26.8	85	calm			0		4					sm'h		d. clouds.
S. S. City of Sydney, Sydney, N. S. W *†..	30.45	773.4	53	11.7	92	sw.			2		0							clear.
Bk. Edmund Phinney, Pisagua, Peru*†	30.07	763.8	58	14.4		ese			2		3			0	0	light	w.	clear.
S. Parker M. Whitmore, S. 45° 32′, W. 92° 25′ *†	29.85	758.2	43	6.1		sse.			5		3		s.	3 h'r	3 h'r	long	sse.	clear.
S. Storm King, S. 43° 24′, W. 80° 58′ *†	29.49	749.0				s.			2		2		s.	0	0	high	s.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.05	763.3	80	26.7	91	se.			2		1	ese.				3	sse.	blue sky.
U. S. S. Enterprise, Madagascar, Africa*	30.11	764.8	74	23.3	69	ssw.			4		2		calm			sm'h		clear.
U. S. S. Juniata, N. 8° 29′, E. 76° 29′	29.79	756.7	82	27.8	96	nw.			3		8		nw.	sli't	sli't	long	nw.	cloudy.
S. S. Galatia, N. 17° 38′, E. 61° 45′ *†	29.62	752.3	88	31.1		wsw.			5		8		wsw.	0	0	r'gh	sw.	cloudy.
S. S. Malabar, Bassein, India *†	29.60	751.8				sw.			6		5		sw.	14 h'r	14 h'r	sm'h		heavy rain.
S. Annie M Law, S. 36° 35′, E. 22° 51′ *†	30.00	762.0	60	15.6		wnw.			2		5		wnw.	0	0	high	wnw.	fair.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 12, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.4	71.2	21.8	82	n.			4		0			0	0	clear	Malaterre.
Algiers			30.00	761.9	73.8	23.2	70	n.			3		0			inap.	inap.	clear	Thève.
La Calle			29.94	760.5															Fonfrède.
Tunis			29.97	761.1															Jacques.
Saida			30.04	763.0															Pérès.
Tebessa			29.95	760.8	79.5	26.4	44	e.			3		3			0	0	pretty fair	St. Martin.
Geriville					86.9	30.5	1	nw.			3		2			0	0	fair	Forfert.
Laghouat			29.91	759.8	89.6	32.0	13	e.			2		2			0	0	fair	Abraham.
Biskra			29.84	758.0	95.0	35.0	18	e.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.20	767.1	59.2	15.1	51	ne.	13	5.8			10 ks			0	0	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.20	767.1	30.29	769.3	53.9	12.2	75	ne.	7	3.1			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.45	748.0	29.98	761.5	70.9	21.6	52	sw.			2		1			0.016	0.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.21	741.8	29.94	760.5	75.9	24.4	62	n.	2.5	1.1			7			0.224	5.7		Dr. Wierzbiski
Eperies	29.08	738.5	29.91	759.6	80.4	26.9	56	calm			0		4 ks			0	0		Julius Mikolik.
Gratz	28.71	729.3	29.91	759.8	73.0	22.8	71	se.			1		3			0	0	lightning	Andreas Rospini.
Hermannstadt	28.58	725.9	29.92	759.9	83.1	28.4	35	nw.			2		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.63	727.3	29.93	760.2	69.3	20.7	68	w.			1		8			1.205	30.6	heavy cl'ds.	The Staff.
Lemberg	29.00	736.7	29.95	760.7	74.1	23.4	65	ne.			3		9			0.012	0.3		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.91	759.7	30.02	762.4	71.8	22.1	71	se.			2		8			0.020	0.5	thund'rst'm	I. R. Hydrographic Office.
Szathmar	29.49	749.0	29.94	760.4	84.0	28.9	41	nw.			3		4			0	0		Joseph Midlinszky, S. J.
Szegedin	29.67	753.7	29.94	760.4	81.3	27.4	45	sw.			2		6			0	0		Karl Stancel.
Trieste	29.93	760.2	30.03	762.7	66.9	19.4	83	nw.			2		10			0.118	3.0		Royal Academy.
Vienna	29.26	743.2	29.95	760.7	73.2	22.9	60	sse.			1		9			0.539	13.7	lightning	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.04	763.0	30.14	765.5	65.4	18.6	59	wnw.	13	5.8			5			0.070	1.8	blue sky	W. Boswell.
Armagh, Observatory	30.10	764.5	30.33	770.4	63.1	17.3	77	w.	6	2.7			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.33	770.4	59.0	15.0	70	w.	24	10.7			4					d. clouds	John Harnup.
Bolton, Sharples	29.78	756.4	30.31	769.9	61.8	16.6	62	w.	12	5.4			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.88	758.9	30.27	768.8	62.0	16.7	59	nw.			1		8			0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	81.0	27.2	78	ne.			3		6					gloomy	Corpl. W. I. Cull, A. H. C.
Cardington	30.20	767.1	30.30	769.6	72.0	22.2	50	n.			0.4		6					d. clouds	John McLaren.
Chatham, School M. E.	30.17	766.3	30.30	769.6	67.5	19.7	62	calm			0		3					misty	Corpl. G. A. Pickles.
Falmouth, Observatory	30.16	766.1	30.39	771.9	64.6	18.1	57	n.			2		1					blue sky	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	79.0	26.1	26	e.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	86.0	30.0	80	n.			1		5					raining	J. W. Smith.
Galway, Queen's College	30.31	769.9	30.34	770.6	59	15.0	82	sw.			3		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	69.8	21.0	87	e.			2		9					gloomy	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	30.04	763.0	30.24	768.1	57.9	14.4	82	w.			4		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	30.13	765.3	30.30	769.6	69.1	20.6	52	nnw.			1		4					misty	The Staff.
Guernsey	30.06	763.5	30.36	771.1	60.0	15.6	74	nne.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.28	769.1	30.31	769.9	66.3	19.1	43	nw.	5	4.0			5					d. clouds	The Staff.
Leicester, Museum	30.04	763.0	30.29	769.4	64.8	18.2	62	nw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.98	761.5	75.8	24.3	90	sw.					4					d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.09	764.3	83.2	28.4	73	se.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.81	757.2	30.32	770.1	65.5	18.6	52	nw.			2		6					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.10	764.5	30.33	770.4	65.9	18.8	52	nw.			2		6					misty	The Staff.
Plymouth	30.28	769.1	30.36	771.1	65.3	18.5	68	sw.			2		4					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.02	762.5	30.12	765.0	51.8	11.0	94						10					foggy	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.86	758.4	29.92	760.0	76.0	24.4	71	sw.			1		3					d. clouds	W. H. Lyne.
Sheffield	29.99	761.7	30.27	768.8	68.8	20.4	69	wnw.			4		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.25	768.3	30.28	769.1	56.7	13.7	83	sw.			3		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.32	770.1	62.5	16.9	51	w.	12	5.4			6					d. clouds	W. C. Carlisle.
Truro, Royal Institution	30.36	771.1	30.47	773.9	70	21.1	57	nw.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.42	772.7	30.45	773.4	59.8	15.4	72	w.	11	4.9			7					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.61	752.1	30.01	762.2	79.5	26.4	45	e.	11.2	5.0		c	9 n	w.	w.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.28	743.7	29.32	744.7	58	14.4	96	calm	0	0			10 n			0.112	2.9	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.27	743.4	29.33	745.0	49	9.4	93	sw.	3	1.3			10 s		sw.	0.96	24.4	cloudy	G. A. Blair.
Cornwall, Ontario	29.56	750.8	29.75	755.6	60.0	15.6	77	sw.			3		0			0.033	0.8	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	29.26	743.2	29.32	744.7	46.0	7.8		w.			1		10 n					raining	H. A. Johnson.
Father Point, Quebec*	29.28	743.7	29.30	744.2	40	4.4	86	ne.	25	11.2			10 n		ne.	0.22	5.6	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.89	733.8	29.71	754.6	49	9.4	93	n.	20	8.9			10 k		n.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.31	744.5	29.37	746.0	54.5	12.5	91	nw.	1	0.4			10 s			0.310	7.9	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.63	727.2	29.08	753.9	64.0	17.8	83	sw.	5	2.2			10 n			0.22	5.6	cloudy	Jas. Grant.
Halifax, N. S*	29.28	743.7	29.40	746.7	56	13.3	96	w.	5	2.2			10 k			0.030	0.8	cloudy	A. Allison.
Hamilton, Ontario	29.26	743.2	29.64	752.8	62.5	16.9	97	sw.			2	o	o			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.39	746.5	29.72	754.9	55	12.8	90	sw.	6	2.7			10 ks		w.	inap.	inap.	light rain	A. P. Knight, M. A.
Little Glace Bay, N. S	29.35	745.5	29.39	746.5	53.5	11.9	95	s.			3		10 n			0.82	20.8	raining	C. H. Rigby.
London, Ontario	28.83	732.3	29.69	754.1	64.2	17.9	82	s.				o	6 ks			0	0	d. clouds	E. B. Reed.
Montreal, Quebec*	29.39	746.5	29.59	751.6	63	17.2	70	w.	20	8.9		o	o			0.03	0.8	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.40	746.7	29.63	752.6	59.0	15.0	82	sw.				o	9 ks			1.10	29.5	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	28.90	734.0	29.58	751.3	55	12.8	100	se.	6	2.7		2 k	8 ks	w.	w.	0.34	8.6	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.92	734.6	29.62	752.3	63.2	17.3	86	w.			1	5 c	o	w.		o	o	fair	J. Dixon, B. A.
Port Dover, Ontario	29.06	738.1	29.73	755.1	59	15.0	88	sw.	10	4.5		10 c	o	sw.		0.01	0.3	fair	H Morgan.
Port Stanley, Ontario	29.12	739.6	29.75	755.6	60	15.6	84	sw.	10	4.5		5 ck	o	sw.		inap.	inap.	fair	M. Payne.
Quebec, Quebec*	29.04	737.6	29.39	746.5	55	12.8	90	sw.	24	10.7			10 s		w.	0.45	11.4	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.18	741.2	29.63	752.6	50	10.0	93	calm	0	0			10 n			0.38	9.7	heavy rain	W. H. McIntyre.
St. Andrews, N. B	29.32	744.7	29.36	745.7	54	12.2	96	nw.	1	0.4		2 k	2 k	nw.		0.30	7.6	clear	
St. John, N. B	29.22	742.2	29.38	746.2	53.0	11.7	100	sw.	4	1.8		0	o			0.110	2.8	blue sky	G. Murdock, C. E.
Saint John's, N. F	29.75	755.6	30.01	762.2	43	6.1	83	se.			2		10 n			0.43	10.9	foggy	J. Higgins.
St. Pierre, N. F			29.65	753.1	44.2	6.8		se.			6					0	0		The Commandant.
Saugeen, Ontario*	28.89	733.8	29.58	751.3	63	17.2	81	sw.	35	15.6			10 ks			0.05	1.3	cloudy	
Stratford, Ontario	28.44	722.4	29.67	753.6	62.9	17.2	87	w.	8	3.6			10 s			0.026	0.6	d. clouds	C. J. Macgregor, M. A.
Sydney, C. B*	29.36	745.7	29.42	747.3	49	9.4	96	calm	0	0			10 n			0.37	9.4	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.32	744.7	29.69	754.1	60	15.6	81	sw.	8	3.6		5 cs	2 ks	w.	w.	0.02	0.5	cloudy	Magnetic Observatory.
Windsor, N. S	29.26	743.2	29.36	745.7	60.0	15.6	88	sw.	6	2.7			10 ks			0	0	overcast	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.69	728.7	29.71	754.6	63.7	17.6	94	s.	19	8.5		7 cs	0	w.		0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.40	746.7	29.46	748.3	52	11.1	90	w.	13	5.8		0	5 k		nw.	0.18	4.6	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.03	762.7	30.06	763.5	59.0	15.0	88	sw.	16.0	7.2		3 cs	0			0	0	light haze	John Duthie
Springbok Fontein	28.07	713.0			49	9.4	78	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Guelny.
Tchang-kia-tchouang	29.88	758.9	29.99	761.7	80.8	27.1	33	calm			0		8			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.93	760.2	29.96	760.9	69.1	20.6	89	e.	13.9	6.2		ck	9 k		ese.	0.055	1.4	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.98	761.6	30.03	762.8	64.2	17.9	52	nnw.	18	8			0						Oversergent Fischer.
Fanoe	30.12	765.1	30.14	765.6	56.7	13.7	62	wnw.			6		3						Overloerer Lauridsen.
Godthaab, Greenland	30.02	762.4	30.06	763.5	34.9	1.6	93	ssw.			2–4		9						S. Kleinschmidt.
Jacobshavn, Greenland	29.85	758.1	29.89	759.3	36.7	2.6		s.			2		7						
Stykkisholm, Iceland	29.68	753.8	29.72	754.9	47.8	8.8	74	sw.			4		10					raining.	A. O. Thorlacius.
Thorshavn	29.95	760.8	29.98	761.4	52.9	11.6	80	w.	18	8			6						Overloerer Bergh.
Vestervig	29.97	761.2	30.06	763.5	54.1	12.3	67	wnw.			7		1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.77	756.2			90.0	32.2		nw.	7.4	3.3		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.57	751.0	30.22	767.5	61.2	16.2	98	nnw.			1		n			0.154	3.9		M. Labroue, Director.
Alençon, Normal School	29.78	756.3	30.33	770.3	59.4	15.2	68	ne.			1		cs		sw.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.92	760.0	30.00	762.0	73.8	23.2	54	nnw.			2		0			0.071	1.8	clear	M. Giraud, Director.
Bar-sur-Seine	29.65	753.2	30.21	767.3	58.6	14.8	62	ese.			2		10		e.	0	0	covered.	M. Saillard, Director.
Beauvais, Normal School	30.04	763.1	30.31	769.8	58.8	14.9	56	n.			2		5		ne.	0.063	1.6	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.82	757.4	30.06	763.5	59.9	15.5	96	ne.			1	9	5 n		sw.	0.720	18.3	raining	M. Gobin, Director.
Bordeaux, Observatory	29.93	760.2	30.19	766.7	63.3	17.4	70	n.			2		8		n.	0.161	4.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.67	753.6	30.22	767.6	57.2	14	78	nnw.			4		n		nnw.	0.067	1.7		M. Malet, Director.
Brest, Naval Observatory	30.14	765.5	30.38	771.6	60.8	16.0	83	n.			2		3		n.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.23	767.9	30.31	769.9	60.1	15.6	73	nw.			1		5		nw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.91	759.6	30.22	767.7	57.7	14.3	72	nw.			4		10			0.579	14.7	covered	M. Jadot, Director.
Charleville, Normal School	29.73	755.1	30.24	768.0	55.4	13.0	62	n.			2		10			1.42	36.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.79	731.3	30.13	765.4	61.5	16.4	73	n.			1		10			0.220	5.6	covered	M. Alluard, Director.
Cluny, Normal School	29.27	743.4	30.10	764.5	65.3	18.5	71	n.			1		9		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.35	745.6	30.22	767.6	55.8	13.2	68	n.			6		n	n.	n.	0.	0		Dr. Coulet, Director.
Gap, Normal School	27.48	697.9	29.96	760.9	65.3	18.5	62	calm			0		6 kn		s.	0.16	4.		M. Jeangirard, Director.
Gréasque, du Rhone	28.88	733.6	29.97	761.2	72.0	22.2	56	n.			1		5		sw.	0.08	2.		M. Kina, Director.
Grenoble, Normal School	29.26	743.3	30.10	764.5	64.0	17.8	76	nw.			2	ck	0	nw.		0.79	20.		M. Ablard, Director.
Guéret, Normal School	28.58	725.8	30.14	765.6	50.9	10.5	100	nne.			1		10		ne.	0.102	2.6	rain & fog	M. Delorme, Dir.
Lamballe, Normal School	30.21	767.2	30.47	774.0	62.6	17	72	n.					k		n.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.56	750.8	30.11	764.9	66.2	19.0	70	w.			3	0	5 kn			0.630	16.0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.24	768.2	30.35	770.8	66.6	19.2	61	nne.			2		5	ne.	ne.	0	0	½ covered.	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.04	737.5	30.08	764.0	64.8	18.2	72	n.			2		10 n			0.598	15.2	covered	M. André, Director.
Mans, Normal School	29.98	761.4	30.28	769.2	60.1	15.6	80	ene.			3		5		n.	0.008	0.2	cloudy	M. Piboën, Director.
Marseille, Observatory	29.71	754.6	29.98	761.4	68.7	20.4	66	wnw.			2		5		nne.	0	0		M. Stephan, Director.
Montlouis	24.91	632.7	29.75	755.7	53.6	12.0	54	nw.	5.6	2.5			6		w.	0.185	4.7		M. Cave for Dr. Fines.
Montpellier, Normal School	29.82	757.3	29.94	760.4	75.9	24.4	71	w.			2		5		w.	0.071	1.8	cloudy	M. Galzin, Director.
Nancy, Normal School	29.37	746.1	30.15	765.8	56.8	13.8	73	wnw.			2		kn		n.	0.795	20.2		M. Hasse, Director.
Nantes, Observatory	30.15	765.9	30.32	770.0	65.3	18.5	58	ne.			1–2	0	6 k; kn		ne.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.96	761.0	30.07	763.8	71.1	21.7	45	nw.	15.0	6.7			4		wnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.28	540.6			34.3	1.3		se.			1					0.984	25.0		M. Vaussenat, Director.
Privas, Normal School	28.94	735.1	29.98	761.6	64.8	18.2	60	n.			1		10 n		n.	0.020	0.5	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.27	641.8			43.3	6.3	100	nne.			3		10			0.083	2.1	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.19	766.8	30.22	767.6	66.9	19.4	67	nne.			3		10		ne.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.06	763.5	30.28	769.0	57.9	14.4	80	n.			3		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.88	708.1	30.01	762.2	55.8	13.2		nw.			1		10		nw.	0	0	stormy	M. Seger, Director.
Rouen, Normal School	29.85	758.1	30.29	769.3	61.9	16.6	62	n.			2		5	n.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	30.11	764.9	30.28	769.0	58.8	14.9	63	n.			3		10		nne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.47	748.4	30.19	766.9	61.3	16.3	84	sw.			2		10	w.		0.390	9.9	raining	M. Baillaud, Director.
Tours	30.09	764.3	30.27	768.8	59.4	15.2	66	nnw.			3		10	nne.	nne.	0.091	2.3	covered	M. de Tastes.
Versailles, Observatory	29.78	750.5	30.28	769.0	59.4	15.2	60	ne.			3					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.05	763.3	30.20	767.1	63.9	17.7	76	nw.	7.8	3.5		0	9 kn		ne.	0.551	14.0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.66	727.9	30.10	764.5	57.7	14.3	85	ne.			2		10	ne.		0.079	2.0		Prof. Jaedt.
Bamberg	29.21	741.8	30.05	763.3	62.1	16.7	70	nw.			3	0	9 ks			0.004	0.1		Prof. Dr. Hoh.
Berlin	29.96	760.9	30.10	764.5	64.4	18.0	69	nw.			3		4			0	0		Dr. Sensch.
Breslau	29.52	749.7	30.05	763.2	73.6	23.1	45	nne.			2		7	sse.		0	0		Royal University Obs'y
Carlsruhe	29.69	754.2	30.15	765.8	61.2	16.2	69	nw.			3		10	n.		0	0		Albert Senz.
Cassel	29.43	747.6	30.15	765.7	54.7	12.6	77	n.			4		8	n.		0.016	0.4		Dr. H. Möhl.
Frankfort-on-the-Main			29.82?	757.4?	61.5	16.4	66	n.			1		10			0	0		Physical Society.
Friedrichshafen	28.66	728.0	30.06	763.5	61.0	16.1	79	ne.			5		9	ne.		0.201	5.1		Wilhelm, Chief Tel.
Hamburg	30.08	763.9	30.17	766.2	61.2	16.2	71	wnw.			5		1	nw.		0	0		E. Preller.
Kiel	30.11	764.9	30.13	765.3	60.3	15.7	57	nw.			4		1			0.043	1.1		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.72	754.8	30.13	765.4	60.4	15.8	74	nw.			2		10			0	0		H. Leppig, Asst.
Magdeburg	29.94	760.4	30.13	765.2	59.2	15.1	78	w.			3		8	n.		0	0		Weather Observatory
Memel	29.97	761.2	30.01	762.3	67.8	19.9	73	sw.			3	2 c	0						Issermann.
Munich	28.22	716.8	30.09	764.2	64.6	18.1	66	nw.			1		7	nw.		0.094	2.4		Central Station.
Neufahrwasser	30.01	762.3	30.03	762.7	72.0	22.2	67	ne.			1		7			0	0		A. Lothes.
Neustadt, Palatinate	29.60	751.7	30.12	765.1	61.2	16.2	68	n.			2		8	n.		0	0		Dicknether.
Stuttgart	29.15	740.5	30.04	763.0	59.9	15.5	79	n.			1		10			0.031	0.8		Prof. Dr. Schoder.
Wustrow	30.08	764.1	30.11	764.8	60.4	15.8	74	wnw.			4	0	5 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.61	752.2	29.98	761.5	84.6	29.2		sw.			2.0		1 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.37	745.9	29.42	747.1	91.0	32.8	70	ssw.	22.0	9.8			4			0	0	d. clouds	
Deesa	28.98	736.2	29.44	747.7	98.6	37.0	36	ssw.	27.0	12.1			1	ssw.		0	0	d. clouds	
Bombay	29.55	750.6	29.59	751.5	84.4	29.1	83	s.	29.0	13.0			3	ssw.		0.32	8.1	d. clouds	
Poona, Yarrowda	27.79	705.8	29.63	752.5	80.3	26.8	71	sw.	27.0	12.1			9			0	0	d. clouds	
Trichinopoly	29.45	748.0	29.72	755.0	95.1	35.1	42	sw.	2.0	0.9			6	nne.	ne.	0	0	d. clouds	
Belgaum	27.17	690.2	29.72	754.8	71.5	21.9	92	sw.	13.0	5.8			10		s.	0.83	21.1	d. clouds	
Lahore	28.57	725.8	29.26	743.2	107.3	41.8	21	w.	2.0	0.9			6			0	0	misty	
Roorkee	28.49	723.7	29.35	745.5	97.5	36.4	41	se.	5.0	2.2			0			0	0	misty	
Agra	28.82	732.0	29.35	745.4	104.1	40.1	26	s.	10.0	4.5			9		s.	0	0	d. clouds	
Nagpur	28.48	723.5	29.51	749.5	83.9	28.8	70	w.	0	0			10		w.	0.11	2.8	overcast	
Jubbulpore	28.16	715.4	29.50	749.2	82.8	28.2	63	w.	4.0	1.8			10		w.			drizzling	
Lucknow	29.07	738.3	29.44	747.7	82.2	27.9	81	e.	5.0	2.2			7	ese.		0	0	d. clouds	
Allahabad	29.12	739.7	29.43	747.5	83.7	28.8	72	calm	0	0			8		e.	1.00	25.4	d. clouds	
Patna	29.26	743.2	29.44	747.7	89.9	32.2	62	ssw.	8.1	3.6			8	ssw.	ssw.	0.03	0.8	d. clouds	
Hazaribagh	27.50	695.6	29.50	749.2	76.5	24.7	92	n.	6.2	2.8			10			1.18	30.0	gloomy	
Cuttack	29.36	745.8	29.44	747.8	84.2	29.0	69	wnw.	5.0	2.2			10			0.70	17.8	d. clouds	
Calcutta, Alipore	29.45	748.0	29.47	748.6	82.9	28.3	84	s.	7.0	3.1			10			0	0	overcast	
Dhubri	29.39	746.4	29.50	749.4	86.5	30.3	90	calm	0	0			9			0.01	0.3	d. clouds	
Chittagong	29.46	748.3	29.55	750.5	82.7	28.2	80	se.	5.9	2.6			3			0	0	blue sky	
Sibsagar	29.17	741.0	29.50	749.3	87.2	30.7	76	se.	2.0	0.9			8	sw.	sw.	0	0	d. clouds	
Jeypore	28.05	712.4	29.45	748.0	88.7	31.5	60	nw.	4.8	2.2			9		nw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.02	762.4	30.04	763.0	82.5	28.1	58	s.	9.7	4.3			2	e.		0	0	d. clouds	
Bellary	28.20	716.3			90.0	32.2	39	sw.	18.0	8.0		4 ck	6			0	0	gloomy	
ITALIAN.																			
Udine	29.64	752.8	29.93	760.1	76.8	24.9	60	s.	2.5	1.1			4			0.260	6.6		Prof. Giovanni Clodig.
Milan	29.53	750.1	30.04	763.0	68.5	20.3	62	se.	4.3	1.9			9	ssw.		0.201	5.1		Prof. G.V.Schiapparelli.
Padua	29.89	759.1	29.99	761.8	69.3	20.7	61	e.	5.6	2.5			10			0.543	13.8		Prof. Dott. Lorenzoni.
Moncalieri	29.12	739.7	30.01	762.2	64.8	18.2	76	nw.	3.1	1.4			8	ne.		1.508	38.3		Prof. F. F. Denza.
Genoa	29.82	757.4	30.01	762.2	70.9	21.6	55	se.	9.4	4.2			6	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.13	714.6	30.02	762.5	59.7	15.4	77	wnw.			2		9			0.047	1.2		Prof. D. C. Bruno.
Pesaro	29.93	760.2	29.98	761.4	72.0	22.2	76	nw.	4.9	2.2			10			0.299	7.6		Prof. Luigi Guidi.
Florence	29.77	756.1	30.02	762.5	73.4	23.0	59	se.			2		10	s.		0	0		Prof. Costantino Pittei.
Leghorn	29.86	758.5	29.95	760.6	73.6	23.1	64	wsw.	1.3	0.6			8	w.		0.098	2.5		Prof. P. Monte.
Rome	29.83	757.7	30.00	762.0	77.4	25.2	42	calm	0	0			10			0	0		Prof. P. Tacchini.
Lecce	29.76	755.9	30.00	762.0	85.6	29.8	29	e.	8.7	3.9			2	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.11	739.4	29.96	760.9	86.7	30.4	69	sse.	2.5	1.1			6	se.		0	0		Prof. D. Conti.
Cagliari	29.76	755.9	29.95	760.7	77.0	25.0	60	se.			2		6			0.098	2.5		Prof. A. Pacinotti.
Palermo	29.75	755.6	29.99	761.8	82.2	27.9	34	ne.	6.3	2.8			7			0	0		Prof. G. Caccintore.
Syracuse	29.93	760.2	29.97	761.3	81.3	27.4	64	nne.	3.8	1.7			10	sw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.52	749.8	30.03	762.7	76.1	24.5	66	se.	1.3	0.6			10	sw.		0	0		Prof. F. Brioschi.
Stelvio	22.23	564.7			38.1	3.4	83	se.			2		10			0.445	11.3	covered	Prof. P. F. Denza.
Valdobbia	22.22	564.5			42.3	5.7	72	e.			4		10			0.142	3.6	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.07	763.7	30.10	764.6	59.1	15.1	95	calm			0	6 ck	4 ck	nw.	nw.	0	0	cloudy	H. Hattori.
Awomori	30.06	763.5	30.10	764.5	55.8	13.2	88	nw.	6.6	2.9		0	0			0	0	clear	K. Ogawa.
Hamamatsu	30.11	764.8	30.14	765.5	65.6	18.7	80	calm			0	4 ck	0	e.		0	0	fair	Y. Sekigawa.
Kanazawa	29.99	761.7	30.09	764.3	63.4	17.4	90	e.	8.0	3.6		0	0			0	0	clear	Se Endo.
Kagoshima	30.05	763.1	30.06	763.4	69.9	21.1	73	ne.			4		10 s			0	0	cloudy	G. Miyanohaza.
Kioto	29.92	760.0	30.09	764.4	65.9	18.8	74	nne.	2.8	1.2		1 cs	0			0	0	foggy	M. Tojima.
Kochi	30.07	763.7	30.09	764.2	68.9	20.5	84	ene.	5.7	2.5			10 n			0.006	1.5	raining	K. Kusunose.
Miasaka	30.06	763.6	30.09	764.3	67.5	19.7	85	ne.			2		10 n		e.	0.283	7.2	raining	K. Masusaki.
Miyako	30.04	762.9	30.15	765.7	53.8	12.1	88	s.	3.7	1.6			10 s			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.84	757.9	30.04	763.0	71.7	22.1	86	sw.	1.2	0.5			9 s		ne.	0.020	0.5	cloudy	S. Takehayashi.
Niigata	30.08	764.0	30.12	765.0	58.1	14.5	90	ne.	1.2	0.5			10 ck		s.	0	0	cloudy	M. Morita.
Nobiru	30.14	765.5	30.15	765.9	60.0	15.6	83	sse.	4.6	2.1			10ks;s		sse	0	0	covered	H. Midzushima.
Numazu	30.11	764.8	30.14	765.6	62.1	16.7	87	sse.			2	10 ck	0	w.		0	0	cloudy	R. Kaneda.
Osaka	30.07	763.7	30.08	764.1	68.7	20.4	77	nw.	1.0	0.4			10ck;s			0	0	cloudy	H. Omura.
Sakai	30.08	764.0	30.09	764.2	65.1	18.4	85	nne.			2		10 ks		ese.	0	0	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	30.08	764.0	30.15	765.9	62.5	16.9	80	se.	5.8	2.6		0	7 ck		n.	0	0	cloudy	The Staff.
Wakayama	30.02	762.5	30.07	763.8	69.8	21.0	76	sw.	4.7	2.1		0	9 ck		n.	0	0	cloudy	K. Sakai.
Shimonoseki	29.93	760.2	30.07	763.8	68.4	20.2	81	ene.			2	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.89	759.2	30.08	764.0	73.7	23.2	57	se.	11.5	5.1			10 ks			0	0	cloudy	The Staff.
MEXICAN.																			
Guanajuato	23.62	600.0	29.84	758.0	63.5	17.5	70	nnw.	inap.	inap.		4 cs	0	se.		0	0	fair	Prof. Vicente Fernandez.
Leon	24.25	615.9	29.86	758.4	61.7	16.5	76	n.	0.9	0.4		10 c	0	e.		0	0	covered	Prof. M. Leal.
Mazatlan	29.62	752.2	29.87	758.8	71.5	21.9	92	e.	1.6	0.8		1 cs	0			0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					67	19.4	93	e.	4.8	2.1		1 c	0	se.					H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.31	769.9	30.31	769.9	59.4	15.2		n.			3					0	0		
Groningen	30.07	763.8	30.13	765.2	56.3	13.5		n.			1					0	0		
Helder	30.27	768.8	30.27	768.8	54.9	12.7		nw.			2					0	0		
Hellevoetsluis	30.29	769.3	30.29	769.3	61.5	16.4	52	nw.			2					0	0	cloudy	H. van der Brink.
Utrecht	30.22	767.7	30.27	768.9	61.7	16.5	56	nnw.			2		5						
Sub-series.																0	0		Lt. J. J. Roptman.
Batavia, Java	29.88	758.9			79.2	26.2	83	e.	0	0			7						
NORWEGIAN.																			
Bergen	30.00	762.1	30.07	763.7	53.2	11.8	54	nnw.	9	4			6			0	0		
Brono	29.98	761.5	30.02	762.5	50.4	10.2	72	sw.			4		5			0	0		
Christiania	29.71	754.5	29.85	758.1	72.3	22.4	45	ne.	2	1			5			0	0	thunder	
Gjæsvær	29.95	760.6	29.97	761.2	51.4	10.8		calm			0		10						
Lodingen	29.90	759.5	29.95	760.7	55.2	12.9	74	wsw.			2		10			0	0	foggy	
PORTUGUESE.																			
Angra, Azores	29.79	756.6	29.95	760.6	63.3	17.4	94	se.	21.7	9.7			10			0.276	7.0		Dr. J. A. Sampaio.
Campo Major	29.08	738.5	30.05	763.2	73.8	23.2	39	nne.	9.8	4.4			5			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.13	765.2	30.22	767.5	69.3	20.7	57	sw.	7.4	3.3			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.77	756.2	30.10	764.5	70.3	21.3	46	ne.	18.1	8.1			2			0	0		The Staff.
Ponta Delgada, Azores	29.95	760.7	30.02	762.5	65.5	18.6	94	se.	12.5	5.6			10			0.236	6.0		
Saint Paul de Loando	29.76	755.9	29.96	761.0	76.0	24.8	76	nw.			1		0			0	0		
San Salvador	28.09	713.5	29.93	760.1	77.0	25.0	61	sw.			2		0			0	0		
Serra da Estrella	25.43	645.8	30.16	766.0	50.5	10.3	67	e.	19.9	8.9			2			1.118	28.4		
RUSSIAN.																			
Akmolinski	28.76	730.5	29.82	757.3	58.5	14.6	94	e.	2	1			10 n			0.350	8.9		Major K. Lasarew.
Archangel	29.93	760.2	29.95	760.7	80.6	27.0	37	w.	9	4		2 cs	0			0	0		Capt. Ssellwerstow
Ashurada	29.93	760.3	29.84	757.9	81.9	27.7	77	nw.	11	5		0	1 k			0	0		
Astrakhan	29.90	759.5	29.82	757.4	82.8	28.2	42	sse.	9	4		0	1 s			inap.	inap.		Capt. Wisganow.
Baku	29.88	759.0	29.84	757.8	80.1	26.7	65	s.	4	2		0	0			0	0		
Barnaul	29.55	750.5	30.04	763.1	56.8	13.8	43	sse.	4	2			4			0	0		Meteorological Obs'y
Bielosersk	29.60	751.9	30.04	763.0	84.2	29.0	35	ssw.	7	3		0	2 k			0	0		
Dorpat	29.77	756.1	30.00	762.1	70.7	21.5	70	sw.	7	3			10 ks			0.012	0.3		Observatory.
Ekaterinburg	29.02	737.1	29.94	760.4	75.7	24.3	32	nw.	7	3		0	7 k;ks			0	0		Meteorological Obs'y
Elisawetgrad	29.50	749.3	29.93	760.2	78.8	26.0	60	nne.	11	5		c	8 kn			0.173	4.4		
Irkutsk	28.17	715.4	29.74	755.5	63.9	17.7	66	calm			0		10			0.220	5.6		
Kasalinsk	29.43	747.5	29.61	752.0	89.2	31.8	26	calm	0	0		0	0						
Kasan	29.74	755.5	30.00	762.1	73.9	23.3	52	ene.	9	4		0	3 k			0	0		Observatory.
Kem	29.78	756.1	29.83	757.7	84.4	29.1	31	sw.	22	10		0	1 ks			0	0	light clouds	
Kertch	29.85	758.3	29.88	758.9	80.2	26.8	61	calm	0	0		3 c	0			0	0		Lagorio & Sastyrez.
Kieff	29.32	744.8	29.93	760.1	78.3	25.7	55	ne.	7	3		0	7ks;n			0	0		Observatory.
Koslov	29.47	748.6	29.99	761.7	74.3	23.5	95	nne.	9	4		0	5 k			blank	blank		
Libau	29.98	761.5	30.00	762.1	64.6	18.1	71	sw.	7	3			0			0	0		E. Quaas.
Lugan	29.63	752.7	29.81	757.1	84.6	29.2	36	n.	18	8			3			0	0		Meteorological Obs'y.
Moscow	29.58	751.3	30.02	762.6	79.9	26.6	29	se.	2.2	1.0		0	1 ks			0	0		Meteorological Obs'y
Nikolaiev	29.87	758.7	29.95	760.6	85.1	29.5	59	calm	0	0		0	8 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.77	756.2	29.86	758.4	54.9	12.7	80	e.	9	4			5			0	0		Iwanow.
Pekin, China	29.74	755.5	29.89	759.1	83.1	28.4	41	calm	0	0		2 c	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.59	751.5	29.91	759.8	90.7	32.6	9	e.	2.2	1.0			0			0	0		
Petrozavodsk	29.76	756.0	29.95	760.7	83.8	28.8	33	s.	16	7		0	3 k			0.150	3.8		Dr. Bergmann.
Pinsk	29.50	749.3	29.97	761.3	80.1	26.7	57	se.	4	2		0	3 k			0	0		
Poti	29.85	758.2	29.88	759.0	74.5	23.6	88	sw.	4	2		0	0						

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
St. Petersburg	29.93	760.1	29.95	760.7	80.8	27.1	38	s.	16	7		0	4 kn			0	0		Central Physical Obs'y.
Samarkand	27.52	699.0	29.85	758.3	81.7	27.6	26	ne.	3.4	1.5		0	0			0	0		
Semipalatinsk	29.34	745.3	29.98	761.5	66.7	19.3	25	calm	0	0			1			0	0		Major Lasarew
Sevastopol	29.70	754.4	29.92	760.0	68.4	20.2	88	w.	11	5			10 n			0.008	0.2	heavy clouds	
Starol Bykhov	29.63	752.5	30.06	763.6	76.6	24.8	61	e.	4	2			10			0.004	0.1		
Tashkend	28.31	719.1	29.87	758.7	85.1	29.5	25	calm	0	0		0	0			0	0		Terch, A. M.
Tiflis	28.42	721.8	29.74	755.3	91.4	33.0	27	s.	4	2		2 ck	0			0	0		Physical Observatory.
Vernoe	27.54	699.6	29.95	760.8	71.2	21.8	47	calm	0	0		0	1 k			0	0		
Viatka																			
Warsaw	29.58	751.2	29.98	761.4	76.6	24.8	52	e.	11	5			9 k			0.039	1.0	hvy. clouds	Astronomical Obs'y.
Yeniseisk	29.65	753.1	29.94	760.4	50.4	10.2	53	sw.	2	1			8			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.17	766.3	52	11.1	93	w.			4	10	5	w.		0.3	8.	overcast	J. Youngclause.
North Unst			30.07	763.8				w.			4		7						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.00	762.0	30.10	764.6	75.9	24.4	46	s.	3.8	1.7		0	3			0.008	0.2		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.19	766.7	30.24	768.2	63.3	17.4	86	nw.	3.6	1.6			10			0.626	15.9	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.26	692.3	30.25	768.3	54.0	12.2	71	n.	12.1	5.4		0	7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.4	30.05	763.2	70.7	21.5	38	ne.	15.0	6.7		0	4			0	0		The Staff.
Murcia, Met. Obs'y	29.92	759.9	30.04	763.0	65.7	18.7	73	e.	4.0	1.8		5	5	wnw.		0.350	8.9	covered	Olayo Diaz, Director.
Oviedo	29.50	749.2	30.26	768.5	59.0	15.0	75	ne.	8.9	4.0		6 kn	6 n	nw.	w.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.31	744.4	30.19	766.9	66.0	18.9	65	ne.	19.2	8.6			2			0	0	light clouds	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.95	760.7	30.01	762.3	79.7	26.5	81	ene.	2.2	1.0		c	0	ne.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.89	759.3	81.2	27.3	81	sw.	22.0	9.8		8 c	2 ks			0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.4	30.07	763.8	70.5	21.4	72	s.	9.4	4.2		0	3		s.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.7	30.04	763.0	77.4	25.2	97	calm	0	0		2 cs	3kn	s.	s.	0.008	0.2	cloudy	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.78	756.5	29.82	757.5	60.4	15.8	91	ne.			4		10			0.075	1.9	raining.	
Umea	29.79	756.6	29.84	757.9	61.2	16.2	91	e.			2		10			0.134	3.4		
Hernosand	29.82	757.5	29.87	758.8	63.0	17.2	80	calm			0		10			0	0		
Stockholm	29.70	754.4	29.88	758.9	63.7	17.6	82	calm			0		10			0	0		
Wisby	29.82	757.5	29.88	759.0	63.7	17.0	74	w.			6		3			0	0		
Sub-series.																			
Upsala	29.80	756.8	29.88	759.0	57.9	14.4	99	nnw.	2.0	0.9			10			0.606	15.4	raining.	S. G. Fineman.
SWISS.																			
Geneva	28.65	727.8	30.06	763.6	59.7	15.4	74	nne.			6		10			0.012	0.3	covered	The Observatory.
TURKISH.																			
Constantinople			30.00	761.9	79.5	26.4	67	ene.	8	3.5			5		n.	0	0		The Observatory.
Valona			30.21?	767.4?	86.2	30.1		sw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.1	81.5	27.5	58	wsw.			2		3 k		se.;sw	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.80	680.7			68	20.0	81						4 k		e.	0	0		Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.72	754.9	29.80	756.9	70	21.1	55	w.	2	0.9		0	0			0.35	8.9	clear	J. O. Barnes.
Alpena, Michigan	28.92	734.6	29.57	751.1	64	17.8	84	sw.	11	4.9		3 c	4 s	w.		0.02	0.5	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.97	634.2	29.72	754.9	45	7.2	58	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.27	692.6	30.06	763.5	42	5.6	68	sw.	12	5.4		0	0			0.03	0.8	clear	B. O. Lenoir.
Atlanta, Georgia	28.87	733.3	30.02	762.5	74.5	23.6	90	sw	5	2.2			10 s			inap.	inap.	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.92	760.0	29.93	760.2	66	18.9	78	sw.	5	2.2		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.85	758.2	30.04	763.0	73.8	23.2	90	s.	1	0.4			10 s		sw.	0.13	3.3	cloudy	John Healy.
Baltimore, Maryland	29.91	759.7	29.96	761.0	71	21.7	62	w.	5	2.2		0	0			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.87	758.7	29.89	759.2	71.5	21.9	62	w.	18	8.0		0	0			0.01	0.3	clear	G. A. Hill.
Behring Id., Behring Sea	29.84	757.9	29.86	758.4	38.3	3.5	95	n.	16	7.2			10 n			inap.	inap.	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.40	721.3	29.94	760.5	50.0	10.0	80	nw.	14	6.3		1 c	0	nw.		inap.	inap.	clear	A. Pritchard.
Benton, Fort, Montana	27.26	692.4	30.03	762.7	40	4.4	67	calm	0	0		0	2 s			0.10	2.5	clear	S. Wheaton.
Billings, Montana	26.87	682.5	30.01	762.2	45	7.2	63	sw.	1	0.4		0	0			0.16	4.1	clear	T. Gibson.
Bismarck, Dakota	28.15	715.0	29.91	759.7	50	10.0	86	nw.	9	4.0		0	0			inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	29.75	755.6	29.78	756.4	63	17.2	84	w.	21	9.4		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.23	691.6	30.01	762.3	56	13.3	69	e.	4	1.8			10 s			inap.	inap.	cloudy	J. Kenealy.
Boston, Massachusetts	29.52	749.8	29.67	753.6	68.0	20.0	51	sw.	20	8.9		0	0			0.08	2.0	clear	O. B. Cole.
Brownsville, Texas	29.78	756.4	29.82	757.4	82.0	27.8	88	s.	6	2.7		0	4 ks		s.	0	0	fair	E. C. Imlay.
Buffalo, New York	29.00	736.6	29.74	755.4	63.8	17.7	75	s.	22	9.8		5 cs	2 ks	sw.	sw.	inap.	inap.	fair	W. Finn.
Buford, Fort, Dakota	28.08	713.2	30.04	763.0	45	7.2	93	w.	9	4.0		0	0			0.05	1.3	clear	A. Schneider.
Burlington, Vermont	29.41	747.0	29.70	754.4	63.6	17.0	62	sw.	9	4.0		0	0			1.20	30.5	clear	D. N. Farnell.
Cairo, Illinois	29.47	748.5	29.86	758.4	73.8	23.2	83	sw.	12	5.4		7 cs	0	sw.		0	0	fair	W. H. Ray.
Cape Henry, Virginia	29.95	760.7	29.97	761.2	72.5	22.5	74	se.	8	3.6		0	0			0.07	1.8	clear	A. K. Alderson.
Cape May, New Jersey	29.94	760.5	29.97	761.2	69.0	20.6	76	w.	11	4.9		0	0			0.17	4.3	clear	W. E. Smith.
Cape Mendocino, California	29.20	741.7	29.88	758.9	48	8.9	100	se.			2		fg.		se.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	82	27.8	79	s.	5	2.2		4 c	2 k	w.	s.	0	0	fair	G. W. Davis.
Charleston, S. Carolina	29.97	761.2	30.02	762.5	80.	26.7	88	sw.	5	2.2		0	hz.			0.72	18.3	clear	J. H. Smith.
Charlotte, N. Carolina	29.17	740.9	30.00	762.0	76.0	24.4	69	w.	1	0.4		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.01	762.2	68.5	20.3	84	calm	0	0		2 cs	0	nw.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	29.83	757.7	38.2	3.4	82	n.	10	4.5			10 n			0.58	14.7	light rain	E. McGovern.
Chicago, Illinois	28.99	736.3	29.68	753.9	64.9	18.3	90	sw.	5	2.2			10 n			0.57	14.5	heavy rain	John Laurens.
Chincoteague, Virginia	29.92	760.0	29.94	760.5	70	21.1	70	s.	3	1.3		0	0			0.02	0.5	clear	C. F. Dickens.
Cincinnati, Ohio	29.23	742.4	29.88	758.9	68.0	20.0	73	se.	6	2.7		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.07	738.4	29.80	756.9	67.2	19.6	65	s.	10	4.5		1 c	0	w.		inap.	inap.	clear	J. B. Newlin.
Coleman City, Texas	28.03	711.9	29.78	756.4	73	22.8	76	s.	4	1.8		5 k	0			0	0	fair	T. J. Kenan.
Columbus, Ohio	29.03	737.3	29.87	758.7	64	17.8	78	s.	6	2.7		5 ck	0	sw.		0.02	0.5	fair	D. Cuthbertson.
Concho, Fort, Texas	27.91	708.9	29.78	756.4	75.4	24.1	88	w.	4	1.8			10 k		w.	0	0	cloudy	J. McGlone.
Davenport, Iowa	28.99	736.3	29.63	752.6	66	18.9	93	sw.	10	4.5			10 s		sw.	1.39	35.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.10	637.5	29.71	754.6	69	20.6	51	sw.	4	1.8		0	0			inap.	inap.	clear	J. Williams.
Dayton, Washington T'y	28.31	719.1	30.05	763.3	47	8.3	66	ne.	5	2.2		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.43	645.9	29.87	758.7	44	6.7	100	ne.	2	0.9			10 n			0.15	3.8	light rain	F. Willson.
Delaware Breakwater, Del.	29.93	760.2	29.95	760.7	68	20.0	73	sw.	11	4.9		0	hz.			inap.	inap.	clear	T. S. Townsend.
Denver, Colorado	24.81	630.2	29.85	758.2	43.5	6.4	93	n.	4	1.8			10 n			0.12	3.0	light rain	F. M. Neal.
Des Moines, Iowa	28.85	732.8	29.73	755.1	63	17.2	84	n.	3	1.3		5 cs	5 s	w.		0.30	7.6	cloudy	F. W. Conrad.
Detroit, Michigan	29.02	737.1	29.71	754.6	68.0	20.0	78	sw.	15	6.7		3 cs	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.22	691.4	29.73	755.1	57	13.9	86	e.	28	12.5		0	8 ks		sw.	0	0	cloudy	D. J. Carr.
Dubuque, Iowa	28.93	734.8	29.62	752.3	62	16.7	91	w.	1	0.4			10 s		w.	1.24	31.5	threatening	J. Harvey Smith.
Duluth, Minnesota	28.83	732.3	29.56	750.8	60	15.6	75	w.	16	7.2		0	2 k		w.	0.60	15.2	clear	N. B. Conger.
Eagle Pass, Texas	29.03	737.3	29.82	757.4	82.0	27.8	66	se.	7	3.1			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.29	642.4	29.88	758.9	38	3.3	76	n.	8	3.6		0	0			0.03	0.8	clear	H. R. Boynton.
Eastport, Maine	29.33	745.0	29.40	746.7	60.0	15.6	87	sw.	4	1.8		2 k	0	w.		0.20	5.1	clear	D. C. Murphy.
Elliott, Fort, Texas	27.04	686.8	29.72	754.9	61	16.1	62	n.	12	5.4		7 k	0	n.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.20	665.5	29.79	756.7	71.0	21.7	48	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.08	738.6	29.80	756.9	68	20.0	70	sw.	3	1.3		8 cs	0	sw.		0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	28.90	734.0	29.55	750.6	59.0	15.0	87	s.	3	1.3		40k;cs	6 s	w.	s.	0.32	8.1	cloudy	George Heathcote.
Galveston, Texas	29.84	757.9	29.88	758.9	82	27.8	88	s.	16	7.2		0	8 ks		s	0	0	cloudy	E. O'C. Macluerney.
Grand Haven, Michigan	28.98	736.1	29.63	752.6	58.0	14.4	86	s.	13	5.8			10 s		sw.	0.11	2.8	threatening	J. E. Mueller.
Grant, Fort, Arizona	25.18	639.6	29.72	754.9	61.4	16.3	46	e.	3	1.3		0	0			inap.	inap.	clear	Robert C. Lord.
Hatteras, North Carolina	29.97	761.2	29.99	761.7	75	23.9	97	sw.	13	5.8			10 k		sw.	0.33	8.4	cloudy	R. M. Crawford.
Helena, Montana	25.82	655.8	29.94	760.5	56	13.3	69	sw.	4	1.8		5 ck	0			0.02	0.5	fair	H. W. Dodge.

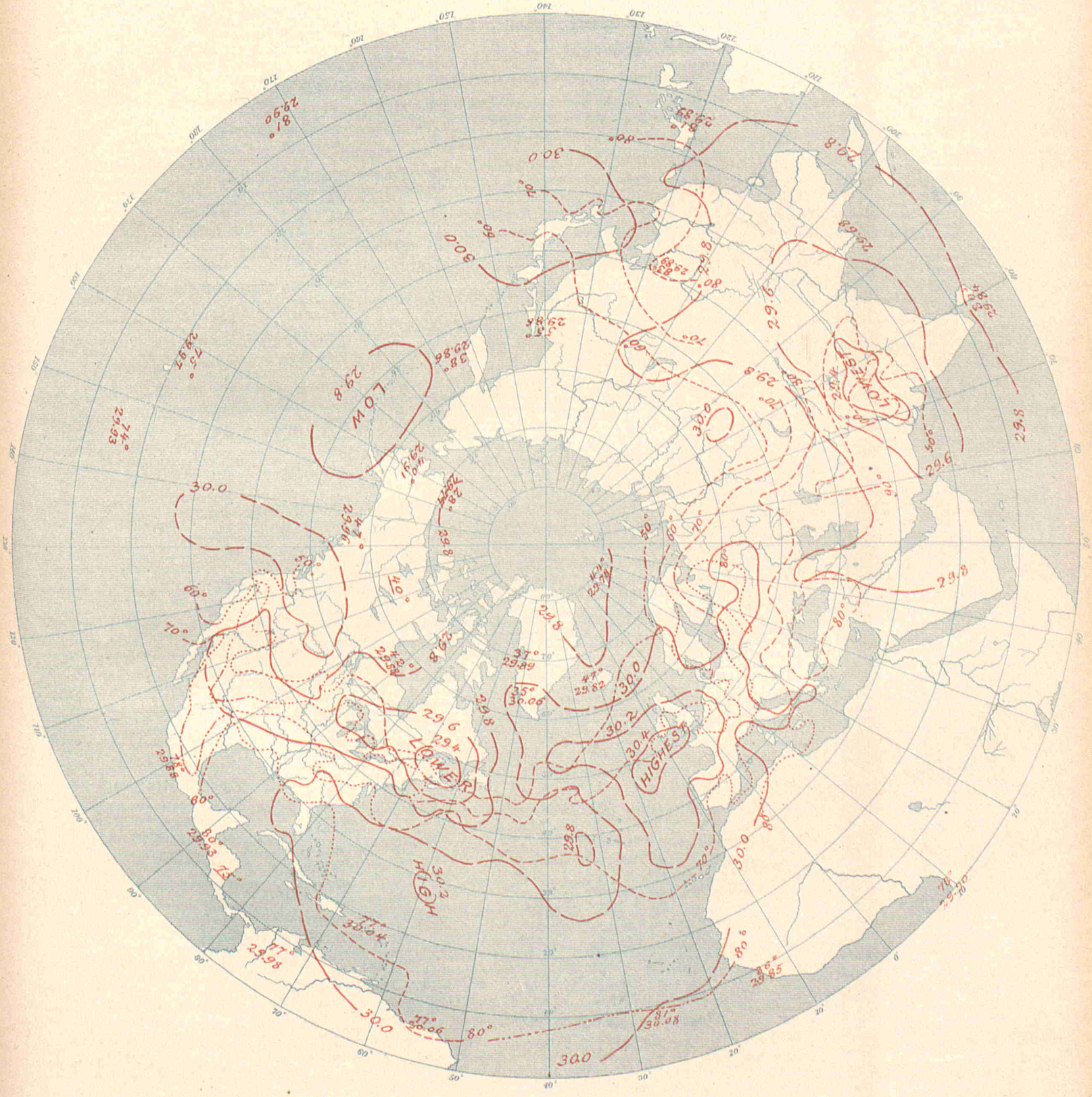
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES,—Cont'd.																			
Huron, Dakota	28.46	722.9	29.80	756.9	49.9	9.9	74	nw.	13	5.8		5 k	0	nw.		0.02	0.5	fair	S. W. Glenn.
Indianapolis, Indiana	29.02	737.1	29.80	756.9	69.4	20.8	70	sw.	7	3.1			10 s			0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.82	757.4	29.85	758.2	80.8	27.1	89	s.	16	7.2		0	2 ks		s.	0	0	clear	I. A. Reed.
Jacksonville Florida	30.02	762.5	30.06	763.5	82.0	27.8	80	s.	5	2.2		5ck;cs	0	sw.		0.14	3.6	fair	J. W. Smith.
Keogh, Fort, Montana	27.59	700.8	30.02	762.5	49	9.4	86	nw.	10	4.5		0	2 s			0	0	clear	W. B. Lamar.
Keokuk, Iowa	29.03	737.3	29.67	753.6	68.0	20.0	84	sw.	15	6.7			10 n		sw.	0.68	17.3	heavy rain	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762.0	84.0	28.9	74	se.	2	0.9		0	3 k		se.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.96	761.0	29.98	761.5	71.2	21.8	94	n.	6	2.7		hz.	1 k			0.86	21.8	clear	H. Mc P. Baldwin
Knoxville, Tennessee	28.99	736.3	30.00	762.0	65.8	18.8	84	ne.	3	1.3		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	28.84	732.5	29.60	751.8	62	16.7	60	sw.	3	1.3		0	6 s		w.	1.41	35.8	fair	S. C. Emery.
Leavenworth, Kansas	28.85	732.8	29.72	754.9	66	18.9	93	n.	3	1.3			10 n			0.71	18.0	thund'r st'm	A. W. Browne.
Lewiston, Idaho	29.26	743.2	30.08	764.0	48.3	9.1	71	calm	0	0		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.51	749.5	29.82	757.4	77	25.0	90	sw.	3	1.3		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.59	751.6	29.98	761.5	60	15.6	87	se.	2	0.9			fg.			0.02	0.5	dense fog	T. S. Collins.
Louisville, Kentucky	29.28	743.7	29.83	757.7	71	21.7	76	s.	6	2.7		3 c	7 s	w.	w.	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.29	744.0	29.96	761.0	69.8	21.0	65	sw.	1	0.4		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	28.90	734.0	29.54	750.3	57.0	13.9	80	sw.	17	7.6		0	8 s		sw.	0.29	7.4	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.99	761.7	30.00	762.0	74.0	23.3	100	w.	6	2.7			10 s		sw.	0.18	4.6	cloudy	William Daly.
Maginnis, Fort, Montana	25.69	652.5	30.02	762.5	45	7.2	41	w.	11	4.9		0	0			0.17	4.3	clear	F. Burke.
Marquette, Michigan	28.82	732.0	29.54	750.3	61	16.1	78	nw.	7	3.1		6 c	0	nw.		0.04	1.0	fair	J. Gilligan.
Memphis, Tennessee	29.52	749.8	29.85	758.2	79	26.1	82	se.	6	2.7		0	1 s		s	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	28.88	733.5	29.62	752.3	65	18.3	93	w.	7	3.1			10n;fg		w.	0.08	2.0	light rain	W. Line.
Missoula, Fort, Montana	26.88	682.7	30.14	765.5	44	6.7	63	w.	1	0.4		0	7 s			0.12	3.0	fair	J. H. Young.
Mobile, Alabama	29.96	761.0	30.00	762.0	79.3	26.3	92	s.	2	0.9		0	5 ks		sw.	1.11	28.3	fair	C. A. Read.
Montgomery, Alabama	29.74	755.4	29.97	761.2	79	26.1	89	s.	4	1.8		0	4 k		w.	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.69	728.7	29.66	753.4	48	8.9	77	nw.	16	7.2			10 s		nw.	0.03	0.8	cloudy	H. White.
Mt. Washington, N. H.	23.27	591.0	29.39	746.5	36.0	2.2	100	nw.	116	48.8			10n;fg		nw.	1.75	44.4	heavy rain	S. W. Beall.
Nashville, Tennessee	29.34	745.2	29.90	759.4	69.5	20.8	81	se.	2	0.9		6 cs	0	w.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.69	754.1	29.80	756.9	67	19.4	63	w.	6	2.7		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.76	755.9	29.81	757.2	70	21.1	53	w.	6	2.7		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.91	759.7	29.96	761.0	80.0	26.7	88	s.	5	2.2		0	0			1.12	28.4	clear	M. Herman.
New York, New York	29.71	754.6	29.88	758.9	65	18.3	73	sw.	10	4.5		0	0			inap.	inap.	clear	G. E. Franklin.
Norfolk, Virginia	29.93	760.2	29.96	761.0	76.8	24.9	56	se.	8	3.6		0	hz.			inap.	inap.	clear	Wm. Davis.
North Platte, Nebraska	27.04	686.8	29.84	757.9	52.6	11.4	78	nw.	14	6.3			10 s			0.14	3.6	cloudy	E. F. Brady.
Olympia, Washington T'y	30.02	762.5	30.06	763.5	47.0	8.3	77	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.60	726.4	29.74	755.4	62.3	16.8	80	n.	2	0.9			10 s			0.09	2.3	cloudy	A. Pollak.
Oogliamie, Alaska	29.75	755.6	29.77	756.1	28.0	— 2.2	100	nne.	16	7.2			10 s			0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.44	747.8	29.76	755.9	63.0	17.2	75	sw.	7	3.1			10 s		w.	0.23	5.8	cloudy	J. G. Linsley.
Palestine, Texas	29.34	745.2	29.88	758.9	77.0	25.0	90	s.	12	5.4		0	8 k		sw.	0	0	cloudy	J. W. Byram.
Pensacola, Florida	30.00	762.0	30.03	762.7	75.2	24.0	97	sw.	13	5.8			10 n		s.	1.21	30.7	thnd'r storm	M. McGauran.
Philadelphia, Pa	29.84	757.9	29.94	760.5	68.5	20.3	84	w.	11	4.9		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.81	452.4	29.63	752.6	26	— 3.3	100	sw.	17	7.6			10 n		sw.	0.68	17.3	light snow	H. Hall.
Pioche, Nevada	23.98	609.1	29.78	756.4	50.0	10.0	61	nw.	5	2.2		7 k	0	nw.		0.03	0.8	fair	F. R. Day.
Pittsburg, Pennsylvania	29.11	739.4	29.90	759.4	64.5	18.1	75	s.	9	4.0		0	0			0.01	0.3	clear	W. A. Reid.
Poplar River, Montana	27.86	707.6	29.96	761.0				nw.			1	0	0			0.14	3.6	clear	W. D. Maxwell.
Port Huron, Michigan	28.98	736.1	29.65	753.1	66.0	18.9	78	sw.	8	3.6		6 c	0	s.		inap.	inap.	fair	M. H. Perry
Portland, Maine	29.49	749.0	29.54	750.3	66.5	19.2	54	w.	17	7.6		2 k	0	w.		0.11	2.8	clear	W. W. Eichelberger
Portland, Oregon	29.94	760.5	30.01	762.2	56.0	13.3	80	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					77	25.0	85	sw.	6	2.7			10 k		w	0.93	23.6	cloudy	F. P. Chaffee.
Prescott, Arizona	24.68	626.9	29.70	754.4	53.0	11.7	51	s.	1	0.4		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass.	29.66	753.4	29.69	754.1	65.5	18.6	58	w.	10	4.5		0	0			0.27	6.9	clear	C. N. Kitchel.
Punta Rassa, Florida	30.02	762.5	30.03	762.7	77.5	25.3	84	e.	5	2.2		2 c	1 k	ne.		0	0	clear	W. J. Evans.
Red Bluff, California	29.55	750.6	29.90	759.4	61	16.1	84	nw.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.12	739.6	29.77	756.1	60	15.6	81	sw.	14	6.3		9 k	hz.	w.		inap.	inap.	cloudy	E. W. McGann.
Roseburg, Oregon	29.42	747.3	29.97	761.2	50.2	10.1	83	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	57.5	14.2	83	se.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.19	741.4	29.78	756.4	70.0	21.1	90	s.	5	2.2			10 s		sw	inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.87	758.7	29.91	759.7	40	4.4	82	calm	0	0			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.79	731.3	29.03	752.6	58.5	14.7	75	w.	3	1.3		0	0			0.74	18.8	clear	P. F Lyons.
St. Vincent, Minnesota	28.85	732.8	29.70	754.4	50	10.0	86	n.	23	10.3			10 s		n.	0.03	0.8	cloudy	C. B. Dilley
Salt Lake City, Utah	25.57	649.5	29.79	756.7	56	13.3	40	nw.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.16	740.7	29.84	757.9	78	25.6	88	s.	3	1.3			9 s		s.	0	0	cloudy	J. H. Davis.
San Diego, California	29.88	758.9	29.95	760.7	59.7	15.4	90	ne.	3	1.3			10 n			0.03	0.8	light rain	A. C. Dobbins.
Sandy Hook, New Jersey	29.85	758.2	29.88	758.9	67.0	19.4	63	sw.	23	10.3		0	0			0.34	8.6	clear	B. A. Blundon.
Sanford, Florida	29.99	761.7			77.9	25.5	89	s.	1	0.4			10 ks		s.	0.31	7.9	cloudy	J. B. Marbury.
San Francisco, California	29.80	758.4	29.93	760.2	58	14.4	86	w.	4	1.8			9 s		s.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.17	588.5	29.68	753.9	55	12.8	40	e.	2	0.9		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.97	761.2	30.06	763.5	82	27.8	74	sw.	5	2.2		1 c	0			0.35	8.9	clear	H. W. Ford.
Shaw, Fort, Montana	26.48	672.6	30.04	763.0	37	2.8	72	sw.	5	2.2		0	0			0.11	2.8	clear	A. L. Mathews.
Shreveport, Louisiana	29.62	752.3	29.84	757.9	79.5	26.4	86	s.	3	1.3		0	5 k		s.	0	0	fair	L. A. Welsh.
Sill, Fort, Indian Territory	28.49	723.6	29.69	754.1	72.5	22.5	89	s.	8	3.6		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.90	759.4	29.96	761.0	46.5	8.1	88	calm	0	0			10 n			0.17	4.3	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.30	744.2	29.76	755.9	76.6	24.8	85	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.97	761.2	30.01	762.2	77	25.0	85	w.	7	3.1			9 k		w.	0.12	3.0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.07	713.0	30.11	764.8	48	8.9	86	nw.	1	0.4		3 c	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.08	738.6	29.75	755.6	67.5	19.7	90	sw.	11	4.9			10 s		sw.	0.02	0.5	cloudy	T. B. Jennings.
Starkville, Miss.	29.48	748.8	29.95	760.7	70	24.4	85	s.	13	5.8			10 s		s.	0	0	cloudy	C. Dill.
Stockton, Fort, Texas	26.86	682.2	29.78	756.4	63	17.2	90	sw.	4	1.8		2 k	0	w.		0.18	4.6	clear	A. J. Warren.
Thomas, Camp, Arizona	27.12	688.8	29.75	755.6	60	15.6	48	e			1	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.06	738.1	29.74	755.4	70	21.1	71	sw.	14	6.3		5 c	0	w.		0	0	fair	A. Buell.
Tucson, Arizona	27.44	697.0	29.74	755.4	66	18.9	36	e.	1	0.4		0	0			0	0	clear	J. L. Whitesides.
Unalaska, Alaska	29.58	751.3	29.61	752.1	44	6.7	63	sw.	12	5.4			10 s		sw.	0.20	5.1	cloudy	Samuel Applegate.
Verde, Fort, Arizona					70	21.1	42	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.69	754.1	29.94	760.5	76.5	24.7	88	se.	0	2.7			10 s		se.	0	0	threatening	James Kenealy.
Visalia, California	29.51	749.5	29.88	758.9	61.8	16.0	71	w.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.57	624.1	29.95	760.7	40.6	4.8	90	sw.	1	0.4			10 ks			0.11	2.8	cloudy	T. M. Ambler.
Washington, D. C.	29.87	758.7	29.98	761.5	71.1	21.7	76	s.	2	0.9		0	0			0.11	2.8	clear	B. M. Purssell.
West Las Animas, Colorado	25.99	660.1	29.76	755.9	56.5	13.6	76	e.	8	3.6			10 s		ne.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.31	744.5	29.91	759.7	63.8	17.7	73	calm	0	0		6 ck	fg.	w.		0.17	4.3	fair	B. F. Hough.
Wilmington, N. Carolina	29.95	760.7	30.00	762.0	78.0	25.6	88	sw.	4	1.8		hz.	7 k		w.	0.22	5.6	fair	Samuel A. Haney.
Winnemucca, Nevada	25.54	648.7	29.80	756.9	47	8.3	52	ne.	6	2.7		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.58	725.9	29.86	758.4	56	13.3	74	n.	18	8.0		10 ck	0	ne.		0.02	0.5	cloudy	J. H. Atfield.
Yuma, Arizona	29.61	752.1	29.75	755.6	70.6	21.4	76	se.	0	2.7		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.00	762.0	80	26.7	79	nw.	1	0.4		10 cs	0			0.40	10.2	cloudy	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	77	25.0	91	se.			2	5 ck	6 k	e.		0.190	4.8	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761.5	77	25.0	94	calm			0	3 c	4 k	calm	s.	0.10	2.5	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74.5	23.6	92	ne.			1		10 ks		ne.	1.12	28.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	29.81	757.2	29.88	758.9	41.5	5.3	96	s.	14	6.3		3 k	1 s	sw.	s.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 45° 19′ E. 14° 26′	30.05	763.3	72	22.2	85	wsw.			1		6	ssw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.09	764.3	76	24.4	84	wsw.			2		6	wsw.						d. clouds.
H. M. S. Gannet, N. 26° 20′, W. 19° 55′	30.13	765.3	72	22.2	62	nne.			2		5	w.				2	var.	d. clouds.
H. M. S. Himalaya, N. 34° 09′, E. 29° 16′	29.89	759.2	75	23.9	86	nw.			3		0					1	wsw.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.89	759.2	77	25.0	95	nw.			1-4		0							blue sky.
H. M. S. Monarch, Trieste, Austria	30.02	762.5	69	20.6		calm			0		10							raining.
H. M. S. Minotaur, Vigo Bay, Spain	30.19	766.8	69	20.6	49	nne.			1		1							heavy mist.
H. M. S. Opal, N. 11° 40′, W. 20° 44′	30.01	762.2	78	25.6	78	calm			0		4	calm				3	nne.	d. clouds.
H. M. S. Satellite, N. 36° 20′, W. 15° 53′	30.22	767.6	70	21.1	70	nne.			3		4	nne.				3	wsw.	d. clouds.
H. M. S. Tyne, N. 8° 22′, W. 27° 06′	30.08	764.0	81	27.2	78	ese.			3		5	ese.				2	se.	d. clouds.
H. M. S. Thetis, N. 24° 53′, W. 21° 10′	30.18	766.6	73	22.8	72	nne.			2		3	nne.				2	nne.	d. clouds.
H. M. S. Tenedos, St. Johns, N.F	29.94	760.5	43	6.1	92	se.			1		8	se.						drizzling.
H. S. M. S. Eugenie, N. 49° 41′, W. 5° 09′	30.39	771.9	64.0	17.8	87	calm			0		0							blue sky.
U. S. Navy Yard, Portsmouth, N.H.*	29.58	751.3	68	20.0	60	nw.	23	10.3			2		nw.	0.1	3.			fair.
U. S. S. Lancaster, Kronstadt, Russia	29.99	761.7	76	24.4	68	sse.			2		5		sse.			sm'h		fair.
U. S. S. Nipsic, Tompkinsville, Staten Id, N. Y*	29.89	759.2	65	18.3	100	w.			3		2							clear.
U. S. S. Portsmouth, Conimicut, R.I	29.78	756.4	65	18.3	89	wnw.			3									clear.
U. S. S. Powhatan, Port Royal, S.C	30.02	762.5	79	26.1	91	wsw.			1		5		w					fair.
U. S. S. Quinnebaug, N. 0° 07′, E. 8° 41′	30.00	762.0	78	25.6	82	ese.			2		5		se.			sm'h	sse.	fair.
U. S. S. Saratoga, Poughkeepsie, N.Y	29.84	757.9	72	22.2	67	sw.			1-2		0			0	0	sm'h		clear.
U. S. S. Vandalia, N. 31° 26°, W. 65° 48′	30.17	766.3	75	23.9	90	sw.			3		2		sw.					fair.
Inchkeith, N. 47° 37′, W. 18° 44′	30.46	773.7	63	17.2	86	se.			4		3							d. clouds.
H. P. M. S. Rio Lima, Porta Praya, Cape Verd Islands			77.4	25.2	86	ne.			3		2					3	se.	d. clouds.
S. S. Illinois, N. 39° 29′, W. 58° 54′	29.82	757.4	76	24.4		w.			5		5		wsw.			sm'h	wsw.	fine.
S. S. Lord Gough, N. 49° 53′, W. 17° 02′	30.31	769.9	60	15.6		ssw.			5		5		ssw.	0	0	sm'h		fair.
S. S. Ohio, Liverpool, Eng †	30.30	769.6	62	16.7		nnw.			4		3		w.	0	0			clear.
S. S. Pennsylvania, Philadelphia, Pa †.	29.91	759.7	76	24.4		ssw.			2		3		sw.	0	0			clear.
S. S. British Princess, N. 49° 58′, W. 20° 42′			61	16.1		sw.			2		0			0	0	sm'h	sw.	clear.
S. S. Circassian, N. 52° 25′, W. 35° 39′	30.26	768.6	46	7.8	92	nnw.			3		4					4	nw.	d. clouds
S. S. Grecian, N. 47° 54′, W. 69° 38′	29.30	744.2	44	6.7	100	e.			2		10			10 h'r	10 h'r	sm'h		foggy.
S. S. Nova Scotian, N. 47° 54′, W. 50° 30′			41	5.0		se.			4		10		wnw.			mod.	sse.	drizzling.
S. S. Scandinavian, N. 49° 44′, W. 30° 40′	30.20	767.1	55	12.8		se.			3		5		se.			sm'h		d. clouds.
S. S. Prussian, Glasgow, Scotland	30.10?	764.5?	60	15.6		nw.			4		4		wnw.					
S. S. Jason, N. 42° 04′, W. 54° 51′			60.8	16		wsw.			5	3 c	0					3	s.	foggy.
S. S. Alvo, Gonalves, Hayti, W. I*	30.06	763 5	79	26.1		sw.			3		7		ssw.	3 h'r	3 h'r			fine.
S. S. Devonia, N. 41° 12′, W. 62° 50′ *†.	29.80	756.9	69	20.6		wsw.			4		1		wsw.			mod.	wsw.	clear.
S. S. Furnesia, Liverpool, Eng†	30.27	768.8	62	16.7	91	wsw.			3		10		wsw.	0	0			cloudy.
S. S. Elysia, N. 55° 03′, W. 13° 30′	30.23	767.8	58.2	14.6		wsw.			3		10			8 h'r	8 h'r	mod.	wsw.	misty.
S. S. Landaff City, Bristol, Eng			60	15.6		calm			0		3			0	0	sm'h		clear.
S. S. Gallia, N. 50° 49′, W. 24° 48′	30.21	767.3	57	13.9	94	s.			3		8		s.	0	0	sm'h		fair.
S. S. Marathon, N. 36° 37′, W. 2° 28′	30.09	764.3	70	21.1		e.			2		3		e.	0	0	sm'h	e.	fine.
S. S. Pavonia, N. 47° 40′, W. 33° 15′	30.00	762.0	60	15.6	94	e.			5		10		ese.	6 h'r	6 h'r	sli't	se.	cloudy.
S. S. Colina, N. 49° 04′, W. 63° 55′ †	29.17?	740.9?				se.			3		10		se.	0	0	chop	se.	foggy.
S. S. Rhiwindda, N. 43° 05′, W. 57° 40′*†	29.65	753.1	63	17.2		s.			4		10		s.	12 h'r	12 h'r	sm'h		rain & fog.
S. S. Ville de Marseille, N. 49° 28′, —. 0° 00′ *	30.28	769.1	45	7.2		nnw.			3		0			8 h'r	8 h'r			clear.
S. S. Abyssinia, N. 49° 01′, W. 30° 38′	30.17	766.3	57	13.9	100	se.			3		5		se.	2 h'r	2 h'r	sm'h		hazy.
S. S. Wisconsin, N. 50° 33′, W. 24° 15′	30.18	766.6	58	14.4		sw.			2		4		sw.	0	0	sm'h		fair.
S. S. Wyoming, New York, N. Y						sw.			6		0			0	0			clear.
S. S. Bohemia, N. 40° 16′, W. 56° 20′						sw.			3		8		sw.	0	0	sm'h	sw.	overcast.
S. S. Gellert, New York, N. Y	29.87	758.7	59	15.0	95	w.			3		3		w.	0	0			clear.
S. S. Rugia, N 58° 39′, W. 6° 00′	30.13	765.3	55	12.8		w.			5		4		w.			long	wsw.	misty.
S. S. Silesia, Havre, France	30.43	772.9	61.0	16.1		ne.			1		4		ne.	0	0			fair.
S. S. City of Berlin, N. 46° 56′, W. 38° 31′	29.99	761.7	61	16.1	94	e.			3		9		se.	9 h'r	9 h'r	sli't	ene.	overcast.
S. S. City of Paris, N. 40° 37′, W. 54° 00′*†	29.80	756.9				se.			2		10		se.			mod.	se.	showery.
S. S. Bulgarian, N. 42° 46′ W. 63° 49′*	29.67	753.6				wsw.			4					0	0			clear.
S. S. Virginian, N. 41° 58′, W. 61° 20′			64	17.8		sw.			5		0			0	0	mod.	sw.	clear.
S. S. Archimedes, N. 40° 36′, W. 65° 35′	29.66	753.4				w.			5		2		calm	0	0	mod.	var.	fine.
S. S. Hevelius, N. 30° 00′, W. 19° 00′			68	20.0		ne.			3		9		nne.	0	0	sm'h		cloudy.
S. S. Ptolemy, N. 38° 15′, W. 13° 15′	30.27	768.8	64.9	18.3	59	nne.			4		6 k		ne.	0	0	3	n.	fair.
S. S. Colorado, N. 32° 48′, W. 76° 05′ †	30.05	763.3	74	23.3		sw.			4		8		sw.	h'vy	h'vy	mod.	sw.	cloudy.
S. S. Chalmette, N. 39° 15′, W. 74° 06′ †	30.02	762.5	65	18.3		wsw.			3		0			1 h'r	1 h'r	mod.	s.	clear.
S. S. Hermod, N. 31° 42′, W. 66° 10′ †	30.20	767.1	77	25.0		wsw.			3		6		w.	0	0	sm'h	sw.	fair.
S. S. Allegheny, Chesapeake Bay †	29.96	761.0	72	22.2		e.			3		4		se.	0	0			fair.
S. S. City of Merida, N. 22° 16′, W. 87° 57′ †	29.97	761.2	82	27.8		se.			1		5		se.	0	0	light	se.	fair.
S. S. City of Washington, N. 36° 11′, W. 74° 35′ †	30.08	764.0	72	22.2		se.			3		1		se.	0	0	sm'h		clear.
S. S. Denmark, N. 40° 36′, W. 66° 20′ †	29.76	755.9	72	22.2		wsw.			5		8		wsw.	19 h'r	19 h'r	mod.	wsw.	cloudy.
S. S. Egypt, N. 40° 40′, W. 54° 37′	29.87	758.7	68	20.0		se.			1		8		se.	0	0	sm'h		hazy.
S. S. Erin, N. 48° 58′, W. 20° 32′	30.34	770.6	63	17.2		ssw.			4		3		sw.	0	0	sm'h		clear.
S. S. Helvetia, N. 45° 31′, W. 40° 36′	29.92	760.0	65	18.3	94	var.			1		8		e.	0	0	sm'h	sw.	cloudy.
S. S. The Queen, N. 51° 01′, W. 12° 37′	30.38	771.6	61	16.1	94	w.			1		1		w.	0	0	sm'h		clear.
S. S. Braunschweig, N. 38° 42′, W. 70° 32′	29.94	760.5			78	wsw.			2		2		wsw.	2 h'r	2 h'r	sm'h	w.	clear.
S. S. Fulda, N. 43° 39′, W. 45° 22′	29.91	759.7	55	12.8	93	wnw.			4		4		wnw.	0	0	sm'h	wnw.	foggy.
S. S. Habsburg, N. 41° 40′ W. 48° 40′	29.98	761.5				ese.			2		5		ene.	0	0	sm'h	ese.	fair
S. S. Hohenstaufen, N. 41° 11′, W. 53° 06′	29.82	757.4				s.			3		6		s.			light	s.	fair.
S. S. Hermann, N. 46° 29′ W. 32° 43′	30.04	763.0	59	15.0	88	ese.			3		9		ese.	2 h'r	2 h'r	mod.	ese	covered.
S. S. Main, N. 46° 20′, W. 34° 45′	29.96	761.0	57	13.9		se.			5		6		se.	3 h'r	3 h'r	mod.	se.	fair.
S. S. Strassburg, N. 49° 06′, W. 13° 13′	30.46	773.7	66.0	18.9	71	ene.			1		2		calm	0	c			clear.
S. S. City of Augusta, Savannah, Ga †	30.05	763.3				wnw.			6		10		w.	0	0			smoky.
S. S. Colon, N. 38° 01′, W. 73° 52′ †	29.97	761.2	64	17.8		sw.			3		3		sw.	½ h'r	½ h'r	small	s.	clear.
S. S. Muriel, Tobago, W. I	30.05	763.3	83	28.3		ene.			3		10		e.			sm'h		drizzling.
S. S. Orinoco, New York, N. Y†	29.86	758.4	68	20.0		wsw.			3		0			0	0			clear.
S. S. Belgenland, N. 40° 15′, W. 61° 40′ †	29.84	757.9	75	23.9	100	wsw.			5		5		w.	sh'rs	sh'rs	sm'h		fair.
S. S. Nederland, N 49° 25′, W. 13° 55′			59	15.0		s.			1		2		sw.	0	0	sm'h		clear.
S. S. Rhynland, Antwerp, Belgium	30.34	770.6	60	15.6	76	n.			2		6		n.	0	0			fair.
S. S. Pennland, N. 48° 50′, W. 15° 22′	30.42	772.7	61	16.1	66	sse.			2		3		sse.	0	0	sm'h		clear
S. S. Waesland, N. 40° 47′, W. 62° 15′	29.75	755.6	73	22.8		ssw.			6		4		sw.	2 h'r	2 h'r	r'gh	sw.*	fair.
S. S. P. Caland, Jersey City, N. J	29.86	758.4	70.9	21.6	85	s.			2		0							clear.
S. S. Rotterdam, N. 50° 25′, W. 1° 26′	30.37	771.4	66	18.9	79	nnw.			2		2			0	0			clear.
S. S. Schiedam, N. 49° 27′ W. 12° 51′	30.47	773.9	64	17.8	73	calm			0		0			0	0	sm'h		clear.
S. S. W. A. Scholten, Rotterdam, Holland	30.22	767.6	57.0	13.9	75	nne.			3		4		nnw.	0	0			fair.
S. S. Belize, N. 24° 46′ W. 73° 55′*†	30.17	766.3	78	25.6		se.			2		0			0	0	sm'h		clear.
S. S. Caracas, Curacao, Venezuela†	30.02	762.5	83.5	28.6	83	ese.			4		8		ese.	2 h'r	2 h'r	mod.	ese.	hazy.
S. S. State of Indiana, N. 40° 47′, W. 64° 55′*†	29.60	751.8	65	18.3		w.			6		0			4 h'r	4 h'r	mod.	w.	clear.
S. S. State of Nebraska, N. 44° 19′, W. 43° 20′*†	29.90	759.4	64	17.8		ne.			3		3		n.	0	0	sm'h		clear.
S. S. Thingvalla, N. 41° 23′, W. 59° 49′†	29.73	755.1	70.7	21.5		ssw.			3		10		ssw.	5 h'r	5 h'r	rg'h	ssw.	raining.
S. S. Toledo, N. 36° 15′, W. 6° 08′ *†	30.00	762.0	67	19.4		n.			2		0			0	0			clear.
S. S. Romano, N. 43° 28′, W. 42° 41′ †	29.92	760.0	66	18.9		wnw.			2		2		wnw.	0	0	sm'h		clear.
S. S. Dominion, N. 56° 00′, W. 33° 45′*†	30.20	767.1	46	7.8		wsw.			4		0					mod.	w.	clear.
S. S. Lake Huron, N. 51° 53′, W 32° 09′	30.18	766.6	54	12.2		ne.			4		8		ne.	6 h'r	6 h'r	sm'h	ene.	cloudy.
S. S. Lake Manitoban, N. 48° 20′, W. 48° 28′	29.99	761.7	41	5.0		ese.			4		10		ese.	10 h'r	10 h'r	sm'h		dense fog.
S. S. Daniel Steinmann, N. 48° 42′, W. 44° 44′†	30.07	763.8	49	9.4		nne.			3		10			0	0	light	ne.	hazy.
S. S. Plantyn, N. 47° 55′, W. 28° 33′									4		3		s.	4½h'r	4½h'r	sm'h	se.	misty.
S. S. Norman, N. 39° 56′, W. 75° 08′						sw.			5		5		sw.	0	0			fair.
S. S. Saxon, Boston, Mass †	29.69	754.1				wnw.			4		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Celtic, N. 42° 54′, W. 55° 42′ †	29.68	753.9	47	8.3		s			5		10			12 h'r	12 h'r	sm'h		hazy.
S. S. Antonio Lopez, Cadiz, Spain	30.07	763.8	68.5	20.3	82	w.			3		1			0	0			clear.
Schr. Abbie H. Gheen, N. 38° 40′, W. 74° 40′			72	22.2		se.			5							sm'h		clear.
Bk. Aquidneck, N. 31° 53′, W. 48° 38′*†	30.10	764.5				nw.			3		0			0	0	light	nw.	clear.
Schr. Anna A. Holton, N. 34° 43′, W. 72° 07′*†	30.06	763.5	80	26.7		wsw.			4		8		sw.	1 h'r	1 h'r	rg'h	s.	cloudy.
Schr. Arthur Burton, Block Island, R. I.†	29.75	755.6				ssw.			2		1		ssw.	0	0	r'gh	ssw	fine.
Bk. Aureola, N. 42° 40′, W 38° 46′ †	29.87	758.7	70	21.1		ene.			5		9		e.	0	0	h'vy	ese.	gloomy.
Bk. Arda, Sackville, N. B†	29.50	749.3				wsw.			4		2		wsw.	1 h'r	1 h'r			clear.
Bk. Alba, N. 43° 10′, W. 63° 00′*†	29.57	751.0	56.7	13.7		sw.			6					0	0			
Bg. Belle of the Bay, N. 29° 51′, W. 91° 40′†	29.96	761.0				sse.			5		5		s.	0	0	long	sse.	fair.
Bk. Bayonnaise. N. 45° 44′, W. 9° 20′			61.7	16.5		ne.			4		hz.					sm'h	ne.	fine.
Schr. C. R. Flint, N. 22° 19′, W 97° 22′			83	28.3		e.			2		2		se.	0	0	sm'h		fair.
Bk. Cato, Bodöe, Norway*†	30.03	762.7				nw.			2									
S. Criterion, N. 42° 54′, W. 49° 45′ *†	29.85	758.2				se.			2		7		w.	0	0	light	sw.	hazy.
Schr. Clotilde, N. 22° 29′, W. 97° 19′*†	29.85	758.2	85	29.4		se.			2		2		se.	0	0	short	se.	hazy.
S. David Stewart, N. 5° 31′, W. 26° 45′†	29.88	758.9				var.			1		2		e.	0	0	mod.	ene.	
Bkt. David A. Preston, N. 21° 06′, W. 73° 46′						se.			4		2		se.	0	0	sm'h		
S. E. J. Spicer, N. 44° 55′, W. 40° 50′	29.90	759.4	64	17.8	94	se.			3		3		se.	4 h'r	4 h'r	mod.	ssw.	clear.
Bk. E. D. Bigelow, N. 52° 44′, W. 5° 10′ *†	30.26	768.6	62	16.7		wsw.			1		2			0	0	sm'h		hazy.
U. S. Fish. Com. S. S. Fish Hawk, Hampton Roads, Va†	29.92	760.0	75	23.9	95	e.			3		0			0.40	10.2			clear.
Schr. F. E. Waters, N. 35° 52′, W. 75° 19′*†	30.05	763.3				calm			0				sw.	0	0	long	s.	clear.
Bgt George, N. 29° 38′, W. 62° 50′*†	30.18	766.6	79	26.1		wsw.			1		2		sw.	0	0	mod.	sse.	fair.
Bk. Galeon, N. 23° 50′, W. 84° 40′ †	30.00	762.0	80	26.7		ese.			2		2		ese.	0	0	sm'h	ese.	blue sky.
Bk. Heinrich & Tonio, N. 44° 33′, W. 31° 48′†	29.96	761.0	67	19.4		se.			4		10		se.	10 h'r	10 h'r	mod.	se.	clearing.
S. Hedwig, N. 36° 42′, E. 13° 21′	30.04	763.0	71.2	21.8	98	e.			3		3		s.	0	0	1	se.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C†	30.04	763.0	76	24.4		w.			2		3		nw.	0	0			fine.
Bk. Horace Scudder, N. 7° 40′, W. 40° 11′*†	30.05	763.3	80	26.7		ne.			3		8		e.	0	0	light	ne.	fine.
Schr. Isabel Alberto, N. 38° 08′, W. 73° 55′†	29.99	761.7				sw.			2		0			sh'rs	sh'rs	high	s.	clear.
Bk. Johanne, N. 44° 18′, W. 20° 46′*†	30.35	770.9	63	17.2		se.			5		2		se.	0	0	mod.	se.	clear.
Schr. John L. Thomas, Vivorilla Cays, C. A.*†	30.02	762.5				ene.			3		4		se.	¼ h'r	¼ h'r			squally.
Bg. John Wesley, N. 27° 31′, W. 37° 38′ *†	29.96	761.0	76	24.4		nw.			3		9		wnw.	0	0	mod.	nw.	cloudy.
Schr. Jennie N. Huddell, Charleston, S. C†	30.03	762.7	81	27.2	96	sw.			1		2		sw.	sh'rs	sh'rs			clear
S. J. W. Gildemeister, N. 34° 53′, W. 52° 04′	30.00	762 0	73.0	22.8	86	w.			3–4	10 c	0	sw.		0	0	3	w.	overcast.
Bkt. Kryolith, Ivigtut, Greenland *†	30.24	768.1				nw.			1					0	0			foggy.
Bg. L. & W. Armstrong, N. 29° 38′, W. 60° 41′*†	30.22	767.6				nw.			2		1		wnw.	0	0	sm'h	se.	clear.
Light House Tender, Laurel, Key West, Fla†	30.00	762.0	84	28.9		se.			1–2		3		se.	0	0			clear.
Bk. Louise Adelaide, Matanzas, Cuba, W. I †	30.06	763.5	82	27.8		se.			1		0			1 h'r	1 h'r			clear.
Bk. Milo, N. 44° 08′, W. 49° 00′ †	29.85	758.2				se.			2				sw.			sm'h		foggy.
S. S. Madrid, N. 36° 16′, W. 21° 18′†.	30.23	767.8	68	20.0	79	se			5		6			0	0	r'gh	ssw.	fair.
Schr. Minnie A. Bonsall, Bridgeport, Conn†	29.71	754.6	78	25.6		w.			2				s.	0	0			clear.
Bk. Matilda C. Smith, N. 49° 28′, W. 5° 12′†	30.41	772.4				calm			0		8		n.	0	0	sm'h		fine.
Bgt. Myrtle, Barbadoes, W. I *†	30.10	764.5				e.			5				e.	0	0			fair.
Schr. Maggie Abbott, Baracao, Cuba†	29.88	758.9									2		calm	0	0			clear.
Bk. National Eagle, N. 37° 43′, W. 33° 20′						s.			2		2		ese.	2 h'r	2 h'r	mod.	se.	clear.
Bg. O. C. Clary, N. 29° 27′, W. 60° 50′ *†	30.18	766.6				n.			2		0					sm'h	nne.	clear.
Bk. Ottawa, N. 50° 40′, W. 0° 05′	30.30	769.6	58	14.4		w			1		1		w.	0	0	sm'h		clear.
S. Paramita, N. 20° 38′, W. 37° 51′†	30.07	763.8	83	28.3		nw.			1		1		nw.	0	0	long	n.	clear.
S. Rudolph, N. 49° 30′, W. 6° 20′			60.4	15.8		nnw.			4		0			0	0	sm'h	n.	clear.
Bg. Rising Sun, Barbadoes, W. I.†	30.05	763.3	83	28.3		e.								0	0			clear.
Bk. Rosino, N. 42° 34′, W. 20° 29′			67	19.4		se.			4		1		ese.	0	0	r'gh	se.	foggy.
Bk. Sunbeam, N. 39° 40′, W. 39° 93′ †	29.85	758.2	68	20.0	95	ene.			3		5		ene.	0	0	mod.	e.	fair.
Bk. Southern Belle, N. 24° 15′, W. 43° 55′†	30.07	763.8	74	23.3		wnw.			3					1 h'r	1 h'r	mod.	n.	clear.
S. Sovereign of the Seas, N. 33° 33′, W. 48° 51′ *†	30.14	765.5	73	22.8	95	n.			1		8		ne.	7 h'r	7 h'r	sm'h	wnw.	showery.
Bkt. Wandering Jew, Matanzas, Cuba *†	30.00	762.0	80	26.7		ssw.			2		5		sw.	0	0			fair.
Bgt. Sunlight, N. 39° 06′, W. 72° 15′						wsw.			4		0			0	0	long	sse.	hazy.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay †	29.88	758.9	55.2	12.9		n.			2		6		n.					d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.11	764.8	57	13.9		sw.			1		8							overcast.
H. M. S. Sylvia, Buenos Ayres, La Plata,	29.81	757.2	56	13.3	88	n.			2		9							d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.87	758.7	56	13.3	87	n.	12	5.4			5		calm	0	0	sm'h		fair.
U. S. S. Galena, Montevideo, Uruguay*	29.85	758.2	55	12.8	81	nnw.			3		2					sm'h		clear.
S. Wm. McGilvery, S. 30° 09′, W. 46° 58 *†	30.20	767.1	77	25.0	77	ne.			3		5		ne.	0	0	sm'h		
May Hulse, S. 5° 55′, W. 26° 20′	30.01	762.2	79	20.1	82	ese.			4		2							blue sky.
S. S. Olbers, S. 12° 57′, W. 38° 31′†	30.23	767.8	83	28.3	87	ese.			3		6		se.	3 h'r	3 h'r	sm'h		showery.
Bk. Achille F., S. 20° —′, W. 36° —′ †	30.18	766.6	77	25.0	77	ene.			5		4		e.	0	0	mod.	se.	fair.
Bk. Alpheus Marshall, St. Helena Island, Africa *†	30.10	764.5							5		4							fair.
Bk. Ceylon, S. 26° 00′, E. 5° 40′ *†	30.46	773.7	66	18.9	89	s.			6		2		ssw.	sli't	sli't	r'gh	ssw.	clear.
S. Dynomene, S. 19° 52′, E. 2° 20′	30.23	767.8	69	20.6	90	se.			6		7					high	s.	showery.
Bk. Adelaide, S. 21° 37′, W. 39° 40′ *†	30.28	769.1	79	26.1		ne.			4		1		nne.	0	0	mod.	ene.	clear.
H. P. M. S. Duque de Terceira, Mossamedes, Beng'la	29.98	761.6	67.3	19.6	76	sw.			3		0			0	0	2	sw.	blue sky.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.99	761.7	73	22.8	59	calm			0		0							blue sky
H.M. S. Champion, Kudat Harbor, Borneo	29.78	756.4	85	29.4	79	calm			0		6					2	sw.	d. clouds.
H. M. S. Espiegle, N. 5° 18′, E. 172° 00′	29.90	759.4	81	27.2	78	ne.			1		5					3	ne.	d. clouds.
H. M. S. Flying Fish, N. 37° 28′, E. 126° 34′	30.01	762.2	68	20.0	87	sw.			1		0					2		blue sky.
H. M. S. Magpie, N. 6° 52′, E. 116° 51′	29.86	758.4	83.2	28.4	81	n.			1		6	ne.						d. clouds.
H. M. S. Sheldrake, N. 4° 37′, E. 113° 19′			81	27.2		calm			0		2					2	sw.	d. clouds.
H. M. S. Zephyr, N. 34° 41′ E. 135° 12′	30.02	762.5	71	21.7	90	calm			0		6							misty.
H. P. M. S. Tamega, Macao, China	29.73	755.1	82.4	28.0	81	calm			0		10			5 h'r	5 h'r			overcast.
U. S. Naval Hospital, Yokohama, Japan	30.17	766.3	65.5	18.6	84	se.			1		5		se.	0	0			fair.
U. S. S. Adams, Sitka, Alaska†	29.97	761.2	46	7.8	92	sse.			2		10							raining.
U. S. S. Essex, N. 15° 38′, W. 145° 12′	29.93	760.2	74	23.3	90	nne.			3		2		nne.			sm'h	nne.	clear.
U. S. S. Hartford, Honolulu, Sandwich Ids *	29.97	761.2	75	23.9	77	calm			0		2			0	0			clear.
U. S. S. Monocacy, Salee river, Corea	30.04	763.0	68	20.0	84	w.			1		0							hazy.
U. S. S. Palos, Hong Kong, China	29.64	752.8	81	27.2	96	e.			1		10		sse.					cloudy.
U. S. S. Richmond, N. 24° 39′, E. 119° 02′*	29.64	752.8	78	25.6	91	nne.			4		8		nne.	0	0	mod.	ne	cloudy.
S. S. Arabic, N. 47° 19′, W. 153° 33′			46	7.8	77	e.			2		10		e.	0	0	sm'h		hazy.
S. S. Oceanic, N. 35° 31′, E. 141° 13′	30.18	766.6	67	19.4	89	e.			4		7		se.			light	var.	fair.
S. S Oregon, San Francisco, Cal.†	29.92	760.0	59	15.0	88	calm			0		8		nw.					cloudy.
S. S. Willametta, Puget Sound, Wash. Ter. †	30.10	764.5	50	10.0	93	s.			1		0			0	0			clear.
S. S. Ancon, San Francisco, Cal.†	29.92	760.0	57	13.9	87	w.			3		5		sw.					fair.
S. S. City of Chester, San Francisco, Cal.†	29.93	760.2	56	13.3	87	sw.			2		8							cloudy.
S. S. Dakota, San Francisco, Cal.			53	11.7	86	nnw.			3		10		nw.			mod.	w.	hazy.
S. S. Queen of the Pacific, N. 46° 58′, W. 124° 33′†	29.91	759.7	48	8.9		sse.			2		10			0	0	long	nw.	foggy.
S. S. City of New York, N. 34° 17′, W. 131° 34′†	30.03	762.7	58	14.4	76	nnw.			5		10		nnw.	0	0	mod.	nnw.	cloudy.
S. S. City of Rio de Janeiro, N. 25° 19′, E. 120° 12′ †	29.77	756.1	79	26.1	91	s.			1		8		wsw.	driz.	driz.	mod.	sw.	cloudy.
S. S. Colima, N. 14° 53′, W. 92° 45′†	29.93	760.2	78	25.6	86	e.			3		8		e.	0	0	small	se.	cloudy.
S. S. Granada, Acapulco, Mexico †	29.88	758.9	78	25.6	91	var.			1		10		se.	0	0			cloudy
S. S. San Blas, Panama, Panama			83	28.3		e.			1		2		sw.	0	0			clear.
S. S. Benledi, Shanghai, China *	29.84	757.9	71	21.7	90	ese.			2–3		4		se.	0	0			fair.
S. S. Radnorshire, Hiogo, Japan *†	30.00	762.0				se.			2		8		ne.	1 h'r	1 h'r			cloudy.
S. Sacramento, N. 10° 30′, E. 122° 00′*†	29.95	760.7	82	27.8	83	sw.			4		8		sw.	4 h'r	4 h'r	sm'h		cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. St. David, N. 15° 25′, E. 114° 28′ *†	29.76	755.9	87	30.6	88	ssw.			4		5		ssw.	0	0	short	ssw.	hazy.
Bk. Xenia, Shanghai, China			72	22.2		se.			4		8		se.	0	0			cloudy.
H. M. S. Sappho, Acapulco, Mexico	29.89	759.2	79	26.1	?	calm			0		3	nw.						d. clouds.
U. S. S. Ranger, Acajutla, San Salvador	29.93	760.2	80	26.7	87	e.			1		8			0.02	0.5	sm'h		cloudy.
S. Henry Failing, N. 33° 41, W. 118° 14′†	29.84	757.9	62	16.7		sw.			2		5		se.	0	0	sm'h	w.	fair.
S. Grecian, Yokohama, Japan†	30.17	766.3	68	20.0	84	ese.			4		8		se.	0	0			fair.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W.			58	14.4	94	calm			0		4	sw.						d. clouds.
H. M. S. Kingfisher, S. 34° 13′, W. 119° 23′	29.82	757.4	63	17.2		ene.			6		10					7	ne.	squally.
H. M. S. Nelson, Souva, Feejee Ids	29.69	754.1	78	25.6	100	s.			5-7		10							squally.
U. S. S. Iroquois, Valparaiso, Chili	30.13	765.3	59	15.0	82	se.			1		10							cloudy.
U. S. S. Lackawanna, S. 22° 10′, W. 88° 48′*	30.11	764.8	67	19.4	69	e.			2		10		e.			sm'h	e.	cloudy.
U. S. S. Onward, Callao, Peru†	30.09	764.3	64	17.8	94	sse.			4		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.93	760.2	64	17.8	83	se.	7	3.1			10			0	0			cloudy.
U. S. S. Wachusetts, Tahiti Id, Society Ids*†	30.06	763.5	72	22.2	90	e.			2		0					sm'h		clear.
S. S. Australia, Sydney, N. S. W	30.33	770.4	50	10.0	93	wnw.			4		4		w.	0	0			fair.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.92	760.0	80.3	26.8	89	calm			0		7					sm'h		d. clouds.
S. S. City of Sydney, Sydney, N. S. W *†	30.37	771.4	54	12.2	74	w.			2		8 k		w.					cloudy.
Bk. Edmund Phinney, Pisagua, Peru			58	14.4		ne.			2		2			0	0	light	w.	light haze.
S. Parker M. Whitmore, S. 43° 13′, W. 96° 30′ *†	29.98	761.5	44	6.7		s.			5		3		ssw.	sh'rs	sh'rs	long	s.	squally.
S. Storm King, S. 40° 48′, W. 82° 50′ *†	29.85	758.2				w.			5		5		s.	0	0	r'gh	sw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.05	763.3	77	25.0	86	sse.			2		3	sse.				2	sse.	d. clouds.
U. S. S. Enterprise, Madagascar, Africa*	30.18	766.6	75	23.9	60	sse			4		0					sm'h		clear
U. S. S. Juniata, N. 7° 11′, E. 79° 00′	29.84	757.9	80	26.7	96	wsw.			4		10		sw.	sli't	sli't	long	wsw.	cloudy.
S. S. Galatia, N. 17° 56′, E. 66° 14′*†	29.60	751.8	85	29.4		sw.			6		8		sw.	0	0	r'gh	sw.	stormy.
S. S. Malabar, Bassein, India *†	29.68	753.9				sw.			4		5		sw.	8 h'r	8 h'r	sm'h		raining.
S. Annie M. Law, S. 36° 15′ E. 21° 17′*†	29.90	759.4	57	13.9		wsw.			3		7		wsw.	0	0	high	w.	fair.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 13, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.10	764.5	72.0	22.2	84	e.			2		0			0	0	clear	Malaterre.
Algiers			30.05	763.2	73.0	22.8	70	n.			3		0			0	0	clear	Thève.
La Galle			30.02	762.5															Fonfrède.
Tunis			30.01	762.3															Jacques.
Saida			30.07	763.7															Pérès.
Tebessa			29.98	761.6	73.4	23.0	52	se.			3		3			inap.	inap.	pretty fair	St. Martin.
Geriville					77.4	25.2	37	ne.			1		1			0	0	very fair	Forfert.
Laghouat			29.95	760.6	80.6	27.0	27	ne.			4		2			0	0	fair	Abraham.
Biskra			29.88	759.0	89.2	31.8	36	w.			2		3			0.071	1.8	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.13	765.3	55.2	12.9	79	ne.	16	7.2			10 n			0.340	8.6	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.09	764.3	30.18	766.6	55.2	12.9	65	n.	12	5.4			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.51	749.6	30.04	763.0	76.1	24.5	43	w.			2		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.24	742.6	29.97	761.3	74.5	23.6	62	wnw.	3.8	1.7			10			0.079	2.0		Dr. Wierzbiski
Eperies	29.12	739.7	29.95	760.8	79.9	26.6	62	s.			2	cs	5 s		n.	0.110	2.8		Julius Mikolik.
Gratz	28.82	732.0	30.02	762.4	75.0	23.9	71	ne.			1		5			0.126	3.2	lightning	Andreas Rospini.
Hermannstadt	28.65	727.8	30.00	761.9	84.2	29.0	36	nw.			3		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.81	731.7	30.14	765.5	59.2	15.1	92	w.			1		10			0.409	10.4	raining	The Staff.
Lemberg	29.05	737 9	29.99	761.8	76.8	24.9	59	sw.			4		2			0.224	5.7		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.98	761.4	30.08	764.1	72.0	22.2	68	nw.			2		8			0	0		I. R. Hydrographic Office.
Szathmar	29.55	750.6	30.00	761.9	82.4	28.0	47	w.			3		3			0.173	4.4		Joseph Midlinszky, S. J.
Szegedin	29.78	756.3	30.04	763.0	81.0	27.2	49	s.			2		5			0	0		Karl Stancel.
Trieste	29.99	761.8	30.09	764.3	75.9	24.4	62	nw.			1		5			0	0		Royal Academy.
Vienna	29.38	746.3	30.08	760.0	68.0	20.0	72	nw.			2		9			0.047	1.2	lightning	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.22	767.6	30.31	769.9	55.1	12.8	81	se.	8	3.6			9			0.220	5.6	overcast	W. Boswell.
Armagh, Observatory	30.17	766.3	30.40	772.1	63.0	17.2	72	sw.	6	2.7			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.40	772.1	62.2	16.8	76	wnw.	9	4.0			9					overcast	John Hartnup.
Bolton, Sharples	29.84	757.9	30.38	771.6	67.7	19.8	65	wnw.	6	2.7			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.96	761.0	30.36	771.1	67.9	19.9	54	nw.			2		7			0.02	0.5	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	83.0	28.3	71	ne.			3		3					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	30.28	769.1	30.39	771.9	73.4	23.0	57	nw.			0.4		7					d. clouds	John McLaren.
Chatham, School M. E.	30.25	768.3	30.38	771.6	68.9	20.5	69	calm			0		9					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	30.22	767.6	30.45	773.4	67.1	19.5	62	nnw.			2		3					blue sky	The Staff.
Fort Napier, Natal	27.67	702.8	29.89	759.2	74.5	23.6	66	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.68	753.9	29.91	759.7	84.0	28.9	79	s.			1		7					raining	J. W. Smith.
Galway, Queen's College	30.37	771.4	30.40	772.1	61	16.1	77	sw.			1		3			0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.07	763.8	30.15	765.3	69.0	20.6	90	e.			3		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.16	766.1	30.36	771.1	59.4	15.2	83	sw.			5		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	30.21	767.3	30.38	771.6	72.8	22.7	58	n.			1		8					d. clouds	The Staff.
Guernsey	30.13	765.3	30.43	772.9	65.1	18.4	75	nw.			1		1					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.36	771.1	30.40	772.1	68.0	20.0	61	n.	4	1.8			9					d. clouds	The Staff.
Leicester, Museum	30.12	765.0	30.36	771.1	70.5	21.4	59	ne.			1		7					d. clouds	J. C. Smith.
Malta, Mediterranean	29.95	760.7	30.03	762.7	76.4	24.7	81	e.					2					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.02	762.5	30.06	763.5	85.0	29.4	70	se.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.87	758.7	30.38	771.6	69.4	20.8	62	w.			2		7					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.16	766.1	30.39	771.9	67.1	19.5	73	n.			3		8					d. clouds	The Staff.
Plymouth	30.30	769.6	30.41	772.4	70.3	21.3	61	ssw.			3		3					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.16	766.1	30.26	768.6	52.1	11.2	73						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.93	760.2	29.99	761.7	78.4	25.8	69	wsw.			1		1					d. clouds	W. H. Lyne.
Sheffield	30.08	764.0	30.35	770.9	73.1	22.8	67	nnw.			1		4			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.35	770.9	30.38	771.6	61.8	16.6	79	sw.			2		8			0.005	0.1	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.40	772.1	67.0	19.4	67	w.	10	4.5			10					overcast	W. C. Carlisle.
Truro, Royal Institution	30.42	772 7	30.52	775.2	72	22.2	67	nw.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.47	773.9	30.49	774.4	60.5	15.8	74	w.	13	5.8			4					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.68	753.9	30.07	763.8	79.5	26.4	55	e.	12.4	5.5		2 c		w.		0	0		Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.51	749.5	29.55	750.6	58	14.4	86	s.	10	4.5			10 s		sw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.46	748.3	29.52	749.8	65	18.3	78	sw.	7	3.1		8 c	2 k	sw.	sw.	0.02	0.5	fair	G. A. Blair.
Cornwall, Ontario	29.41	747.0	29.59	751.6	61.2	16.2	91	w.			2	2 cs	2 s			0.344	8.7	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.38	746.2	29.43	747.5	57.0	13.9		w.			1	5 cs	0	e.		0	0	d. clouds	H. A. Johnson.
Father Point, Quebec*	29.39	746.5	29.41	747.0	53	11.7	86	wsw.	30	13.4		0	2 s		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.95	735.3	29.77	756.1	49	9.4	74	sw.	17	7.6		2 k	2 s	nw.	nw.	0	0	fair	James Stewart.
Fredericton, N. B.	29.50	749.3	29.57	751.1	65.0	18.3	84	sw.	3	1.3		0	8 ks			inap.	inap.	d. clouds	Prof. Harrison, L. L. D.
Granton, Ontario	28.66	728.0	29.73	755.1	57.0	13.9	100	nw.	2	0.9		3 cs	0	nw.		0.10	4.1	fair	Jas. Grant.
Halifax, N. S*	29.51	749.5	29.64	752.8	60	15.6	84	s.	1	0.4		10 k	0	w.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.28	743.7	29.66	753.4	63.7	17.6	93	sw.			1	8 ck	0	sw.		0.25	6.3	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.33	745.0	29.65	753.1	58	14.4	96	sw.	4	1.8		2 cs	5 ks	sw.	sw.	0.03	0.8	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.56	750.8	29.60	751.8	65.0	18.3	73	sw.			3		10 n			0.30	7.6	overcast	C. H. Rigby.
London, Ontario	28.86	733.0	29.74	755.4	61.7	16.5	88	w.				0	5 ks			0.02	0.5	d. clouds	E. B. Reed.
Montreal, Quebec*	29.40	746.7	29.59	751.6	63	17.2	81	sw.	15	6.7		0	5 ks		sw.	0.01	0.3	fair	C. H. McLeod, C. E.
Ottawa, Ontario	29.36	745.7	29.60	751.8	61.0	16.1	87	w.				8 c	0			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.00	736.6	29.68	753.9	52	11.1	93	sw.	9	4.0		5 k	0	sw.		0.22	5.6	fair	Rev. R. Mosley.
Peterboro, Ontario	28.94	735.1	29.65	753.1	63.7	16.6	86	w.			1	3 c	0	w.		0.550	14.0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.03	737.3	29.70	754.4	63	17.2	94	w.	6	2.7		5 c	0	w.		0	0	fair	H Morgan.
Port Stanley, Ontario	29.09	738.9	29.71	754.6	62	16.7	87	w.	8	3.6		5 ck	0	w.		0.01	0.3	fair	M. Payne.
Quebec, Quebec*	29.20	741.7	29.54	750.3	63	17.2	90	sw.	15	6.7			10 k		sw.	0.01	0.3	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.13	739.9	29.58	751.3	54	12.2	90	calm	0	0		5 c	0	w.		0.01	0.3	fair	W. H. McIntyre.
St. Andrews, N. B.	29.48	748.8	29.53	750.0	59	15.0	93	s.	1	0.4			10 n			0.06	1.5	cloudy	
St. John, N. B	29.41	747.0	29.57	751.1	53.0	11.7	93	sw.	4	1.8			10 ks			0.430	10.9	overcast	G. Murdock, C. E.
Saint John's, N. F.	29.44	747.8	29.69	754.1	50	10.0	93	sw.			2	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F.			29.65	753.1	52.9	11.6		nw.			6					0	0		The Commandant.
Saugeen, Ontario*	29.07	738.4	29.79	756.7	45	7.2	89	nw.	12	5.4			10 ks			0.14	3.6	cloudy	
Stratford, Ontario	28.49	723.6	29.74	755.4	59.0	15.0	82	nw.	9	4.0		3 cs	2 s	nw.		0.038	1.0	blue sky	G. J. Macgregor, M A.
Sydney, C. B*	29.57	751.1	29.62	752.3	62	16.7	78	sw.	14	6.3		10 k	0	w.		0.21	5.3	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.33	745.0	29.70	754.4	62	16.7	84	nw.	12	5.4		5 ck	0			0.03	0.8	fair	Magnetic Observatory.
Windsor, N. S	29.50	749.3	29.59	751.6	65.0	18.3	84	w.	4	1.8			10 ks			0	0	overcast	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.70	729.0	29.72	754.9	62.7	17.1	91	sw.	10	4.5		7 k	0	n.		0.48	12.2	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.57	751.1	29.64	752.8	55	12.8	86	w.	6	2.7		8 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.20	767.1	30.23	767.8	53.0	11.7	86	w.	11.4	5.1			10 n			0.315	8.0	raining	John Duffie
Springbok Fontein	28.11	714.0			48	8.9	63	e.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.88	759.0	29.99	761.8	81.3	27.4	36	calm			0		3			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.91	759.8	29.94	760.5	69.3	20.7	86	e.	15.7	7.0		10 ck	1g			0	0	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.08	763.9	30.12	765.1	65.3	18.5	56	nw.	20	9			2						Oversergent Fischer.
Fance	30.22	767.6	30.24	768.1	55.8	13.2	78	nww.			6		10						Overloerer Lauridsen.
Godthaab, Greenland	29.95	760.8	30.00	761.9	43.3	6.3	66	ene.			4		10						S. Kleinschmidt.
Jacobshavn, Greenland	30.21	767.3	30.26	768.5	40.3	4.6		e.			4		0						
Stykkisholm, Iceland	29.76	755.9	29.80	757.0	46.0	7.8	88	calm			0		8						A. O. Thorlacius.
Thorshavn	30.01	762.2	30.03	762.8	52.5	11.4	84	w.	25	11			4						Overloerer Bergh.
Vestervig	30.08	764.1	30.17	766.4	54.7	12.6	80	nw.			7		9						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.78	756.3			90.0	32.2		n.	2.9	1.3		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.71	754.6	30.36	771.2	63.3	17.4	94	nnw.			1		k			0	0		M. Labroue, Director.
Alençon, Normal School	29.84	758.0	30.39	772.0	68.4	20.2	71				1		k			0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	30.07	763.8	30.15	765.8	69.8	21	59	nnw.			3					0	0		M. Giraud, Director.
Bar-sur-Seine	29.76	756.0	30.31	769.8	67.8	19.9	49	ene.			2	0	8 kn		ne.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	30.13	765.2	30.39	772.0	68.4	20.2	61	ene.			1		5		nne.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.19	741.3	30.22	767.5	65.3	18.5	80	ne.			2		10 cn		sw.	0.055	1.4	covered	M. Gobin, Director.
Bordeaux, Observatory	29.66	753.4	29.92	759.9	67.3	19.6	55	n.			1		8		n.	c	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.74	755.3	30.28	769.0	68.0	20	55	nne.			6	c	0	nne.		0	0		M. Malet, Director.
Brest, Naval Observatory	30.21	767.4	30.46	773.6	65.1	18.4	69	n.			2		1		n.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.30	769.5	30.37	771.5	70.2	21.2	67	nnw.			1		2		nw.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.00	762.0	30.32	770.1	64.2	17.9	74	ne.			2		5		ne.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.84	757.9	30.34	770.7	64.0	17.8	72	ne.			2		10			0	0	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.95	735.2	30.30	769.6	59.0	15.0	68	n.			1		10			0	0	covered	M. Alluard, Director.
Cluny, Normal School	29.41	747.0	30.25	768.4	66.2	19	67	n.			3		8		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.47	748.6	30.32	770.0	65.8	18.8	44	ne.			4		k	ne.	ne.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.63	701.9	30.12	765.0	64.4	18	65	n.				0	7 kn		n.	0.256	6.5		M. Jeanginard, Director.
Gréasque, du Rhone	29.04	737.6	30.13	765.3	72.7	22.6	41	n.			3		10		sw.			light rain	M. Kina, Director.
Grenoble, Normal School	29.43	747.4	30.19	766.8	61.0	16.1	81	nw.			2	ck	0	nw.		0.177	4.5		M. Ablard, Director.
Guéret, Normal School	28.73	729.8	30.31	769.9	60.8	16	69	ne.			1	0	8 kn		ne.	0.039	1.0	very cloudy	M. Delorme, Dir.
Lamballe, Normal School	30.33	770.3	30.60	777.2	68.0	20	67	n.					k		n.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.72	754.9	30.28	769.2	65.8	18.8	56	nww.			3	0	5 k			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.31	769.9	30.41	772.5	68.9	20.5	65	w.			1		10	ne.	ne.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.18	741.1	30.23	767.9	62.8	17.1	67	n.			2		10 n		n.	0.020	0.5	covered	M. André, Director.
Mans, Normal School	30.07	763.8	30.38	771.6	64.4	18	84	ne.			1		2			0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.84	757.8	30.10	764.5	72.9	22.7	62	sw.			1		5		ene.	0.213	5.4		M. Stephan, Director.
Montlouis	25.04	636.0	29.88	759.0	50.0	10.0	52	nw.	15.0	6.7			6	nw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.00	761.9	30.08	764.0	74.1	23.4	70	nnw.			2		5		n.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.51	749.5	30.28	769.1	64.8	18.2	66	nw.			2		kn		n.	0.008	0.2		M. Hasse, Director.
Nantes, Observatory	30.24	768.1	30.40	772.2	71.8	22.1	55	nne.			1–2	c;ck	8 k;kn	nne.	nne.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.08	764.0	30.18	766.6	70.3	21.3	45	nw.	16.8	7.5			7	ne.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.5			32.0	0.0		ne.			1		10		ne.	0.315	8.0		M. Vaussenat, Director.
Privas, Normal School	29.10	739.2	30.16	766.0	61.5	16.4	64	n.			3	5 c	0	n.		0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.39	644.9			40.1	4.5	100	nne.			3		10			0.102	2.6	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.92?	759.9?	29.95?	760.7?	73.8	23.2	49	ne.			2		2		nw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.13	765.2	30.34	770.6	68.7	20.4	62	n.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.10	713.8	30.23	767.8	60.6	15.9		se.			2	0	5 kn		sw.	0.429	10.9	fair	M. Seger, Director.
Rouen, Normal School	30.23	767.9	30.28	769.1	72.0	22.2	54	nnw.			2		5	nnw.		0	0	cloudy	M. Moullilot, Dir.
Saint Maur, Observatory	30.20	767.1	30.36	771.2	69.1	20.6	56	n.			1		5		nne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.61	752.0	30.34	770.5	62.8	17.1	77	nw.			2		10		nw.	0	0	covered	M. Baillaud, Director.
Tours	30.18	766.6	30.36	771.1	69.8	21.0	53	n.			1		2	ne.	nne.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.87	758.6	30.36	771.1	67.6	19.8	55	ne.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.21	767.2	30.35	771.0	65.1	18.4	65	w.	13.9	6.2		0	9 k		n.	0.417	10.6		M. Cartier, Director.
GERMAN.																			
Ansbach	28.81	731.8	30.24	768.1	64.0	17.8	56	ne.			2		7	ne.		0.008	0.2		Prof. Jnedt.
Bamberg	29.36	745.7	30.21	767.3	69.8	21.0	46	w.			3	0	3 k; s		w.	0.020	0.5		Prof. Dr. Hoh.
Berlin	30.07	763.8	30.21	767.4	65.8	18.8	49	nw.			3		6			0	0		Dr. Sensch.
Breslau	29.64	752.8	30.17	766.4	63.9	17.7	60	nnw.			4		10			0.157	4.0		Royal University Obs'y.
Carlsruhe	29.83	757.6	30.28	769.1	68.7	20.4	43	n.			1		9	n.		0	0		Albert Senz.
Cassel	29.57	751.1	30.28	769.2	63.0	17.2	59	nw.			4		8	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.26	768.5	68.5	20.3	47	n.			1		4			0	0		Physical Society.
Friedrichshafen	28.86	733.0	30.28	769.1	56.5	13.6	89	ne.			3		10	ne.		0.043	1.1		Wilhelm, Chief Tel.
Hamburg	30.19	766.8	30.28	769.1	58.4	14.8	80	nnw.			4		8			0	0		E. Preller.
Kiel	30.21	767.4	30.23	767.8	61.3	16.3	65	nw.			3		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.84	757.8	30.25	768.4	65.8	18.8	45	nnw.			2		3	nnw.		0	0		H. Leppig, Asst.
Magdeburg	30.06	763.5	30.25	768.4	65.8	18.8	67	wnw.			3		8	w.		0	0		Weather Observatory
Memel	30.12	765.1	30.17	766.3	60.1	15.6	74	wnw.			3		0					clear	Issermann.
Munich	28.41	721.7	30.29	769.4	53.8	12.1	97	n.			2		10	w.		1.681	42.7	raining	Central Station.
Neufahrwasser	30.15	765.8	30.16	766.2	62.6	17.0	68	ne.			2		2			0	0		A. Lothes.
Neustadt, Palatinate	29.71	754.6	30.24	768.1	69.4	20.8	43	ne.			1		0			0	0		Dicknether.
Stuttgart	29.30	744.3	30.19	766.7	64.9	18.3	63	w.			1		8	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.21	767.3	30.24	768.0	59.7	15.4	54	wsw.			3		8 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.68	753.8	30.04	763.1	85.8	29.9		sw.			2.5		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.34	745.3	29.39	746.5	90.9	32.7	68	sw.	22.0	9.8			2			0	0	d. clouds	
Deesa	28.94	735.1	29.39	746.5	98.8	37.1	39	s.	18.0	8.0			7	s.	s.	0	0	d. clouds	
Bombay	29.56	750.9	29.60	751.8	79.6	26.4	91	wsw.	24.0	10.7			10		wsw.	1.78	45.2	overcast	
Poona, Yarrowda	27.76	705.2	29.60	751.9	78.6	25.9	73	w.	28.0	12.5			9			0	0	d. clouds	
Trichinopoly	29.44	747.7	29.71	754.6	94.9	34.9	43	w.	2.0	0.9			6	nne.	nne.	0	0	d. clouds	
Belgaum	27.15	689.6	29.70	754.2	71.7	22.1	92	wsw.	9.0	4.0			9	w.	s.	0.42	10.7	d. clouds	
Lahore	28.61	726.7	29.30	744.3	105.3	40.7	24	n.	6.0	2.7			5			0	0	d. clouds	
Roorkee	28.48	723.5	29.34	745.1	99.9	37.7	42	calm	0	0			4		s.	0	0		
Agra	28.87	733.3	29.41	747.1	92.2	33.4	55	s.	8.0	3.6			10		s.	0.09	2.3	overcast	
Nagpur	28.47	723.2	29.50	749.3	81.7	27.6	77	calm	0	0			10		w.	1.86	47.2	overcast	
Jubbulpore	28.09	713.6	29.39	746.4	98.3	36.8	34	nw.	6.0	2.7			7		w.	0.15	3.8	gloomy	
Lucknow	29.05	737.8	29.41	747.0	94.5	34.7	57	e.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.13	739.8	29.44	747.7	80.0	26.7	95	ene.	2.0	0.9			10			1.07	27.2	raining	
Patna	29.24	742.8	29.42	747.4	88.2	31.2	69	w.	5.0	2.2			8	w.	w.	0	0	d. clouds	
Hazaribagh	27.48	698.0	29.47	748.5	77.3	25.2	89	wnw.	4.4	2.0			10		e.	0.65	16.5	thund'rst'm	
Cuttack	29.38	746.1	29.46	748.2	84.0	28.9	82	wnw.	10.0	4.5			5			1.29	32.8	d. clouds	
Calcutta, Alipore	29.43	747.5	29.45	748.0	84.4	29.1	79	s.	5.0	2.2			9			0.31	7.9	d. clouds	
Dhubri	29.37	745.9	29.48	748.9	87.4	30.8	80	calm					4			0	0	d. clouds	
Chittagong	29.44	747.9	29.53	750.1	83.7	28.7	80	se.	7.2	3.2			8	s.	se.	0	0	d. clouds	
Sibsagar	29.18	741.2	29.51	749.5	84.2	29.0	84	ne.	2.0	0.9			8	w.	w.	0.08	2.0	d. clouds	
Jeypore	28.03	711.9	29.40	746.9	97.6	36.4	40	w.	1.3	0.6			6		w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Zanzibar	30.01	762.3	30.04	762.9	82.3	27.9	65	sw.	8.4	3.8			5	ese.	ne.	0	0	d. clouds	
Bellary	28.19	716.0			87.0	30.6	46	sw.	14	6.3		5 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.71	754.5	30.10	764.6	76.5	24.7	64	sw.	2.5	1.1			7			0.075	1.9		Prof. Giovanni Clodig.
Milan	29.61	752.2	30.12	765.1	73.0	22.8	48	nnw.	3.1	1.4			5	ene.		0	0		Prof. G.V.Schiapparelli.
Padua	29.99	761.7	30.10	764.4	73.8	23.2	51	calm	0	0			5	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.21	741.9	30.10	764.4	68.4	20.2	68	nw.	2.5	1.1			4	nnw.		0.043	1.1		Prof. F. F. Denza.
Genoa	29.92	759.9	30.11	764.7	72.5	22.5	51	sw.	2.5	1.1			8	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.22	716.9	30.11	764.8	67.3	19.6	49	wnw.			2		2			0.402	10.2		Prof. D. C. Bruno.
Pesaro	29.91	759.8	29.96	761.0	68.7	20.4	74	ne.	6.3	2.8			10			0.110	2.8		Prof. Luigi Guidi.
Florence	29.83	757.7	30.08	764.1	79.2	26.2	50	s.			2		10	s.		0.697	17.7		Prof. Costantino Pittei.
Leghorn	29.95	760.8	30.04	762.9	72.1	22.3	64	wnw.	3.1	1.4			10			0	0		Prof. P. Monte.
Rome	29.84	758.0	30.01	762.3	74.5	23.6	60	nw.	1.3	0.6			10			0	0		Prof. P. Tacchini.
Lecce	29.81	757.2	30.05	763.3	90.7	32.6	26	ese.	7.4	3.3			2	se.		0	0		Prof. C. de Giorgi.
Cosenza	29.18	741.1	30.02	762.6	87.8	31.0	68	wsw.	1.8	0.8			3	sw.		0	0		Prof. D. Conti.
Cagliari	29.91	759.8	30.10	764.6	68.5	20.3	73	nw.			2		10			0.142	3.6		Prof. A. Pacinotti.
Palermo	29.83	757.7	30.08	763.9	78.3	25.7	40	e.	4.9	2.2			10			0	0		Prof. G. Cacciatore.
Syracuse	30.00	761.9	30.04	763.0	76.1	24.5	68	nne.	2.5	1.1			8	sw.		0	0		Sig. Vincenzo Giuliano.
Sub-series.																			
Naples, S. R	29.57	751.0	30.07	763.8	80.8	27.1	47	w.	2.5	1.1			9	nw.		0	0		Prof. F. Brioschi.
Stelvio	22.37	568.2			41.2	5.1	83	ne.			1		10			0.643	16.3	misty	Prof. P. F. Denza.
Valdobbia	22.35	567.7			38.3	3.5	73	ne.			4		10			0.071	1.8	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.09	764.3	30.12	765.2	59.5	15.3	92	calm			0	10 ck	0	nw.		0	0	cloudy	H. Hattori.
Awomori	30.06	763.5	30.09	764.3	59.8	15.4	85	nne.	0.7	0.3			10 s		s.	0	0	overcast	K. Ogawa.
Hamamatsu	30.08	764.0	30.11	764.7	64.6	18.1	83	calm			0	0	0			0	0	clear	Y. Sekigawa.
Kanazawa	30.01	762.3	30.11	764.9	63.1	17.3	91	ne.	4.2	1.9		0	0			0	0	clear	S. Endo.
Kagoshima	30.04	763.0	30.05	763.3	70.0	21.1	69	e.			2	0	9 s		e.	0	0	cloudy	G. Miyanohaza.
Kioto	29.91	759.7	30.08	764.1	64.3	17.9	71	nne.	2.5	1.1		0	0			0	0	clear	M. Tojima.
Kochi	30.09	764.2	30.11	764.7	68.9	20.5	80	sw.	3.3	1.4		6cs;ck	0			0	0	fair	K. Kusunose.
Minsaka	30.06	763.4	30.08	764.1	68.7	20.4	84	ene.			2	1cs;ck	7ck;ks	w.	e.	0.047	1.2	cloudy	K. Masusaki.
Miyako	30.00	762.1	30.11	764.9	56.0	13.3	93	calm	0	0		5 ck	0	nw.		0	0	fair	N. Honno.
Nagasaki, I. M. Obs'y	29.82	757.4	30.02	762.5	73.3	22.9	72	nne.	2.7	1.2		0	6 c		ne	0	0	cloudy	S. Takehayashi.
Niigata	30.10	764.5	30.13	765.3	60.0	15.6	83	n.	2.1	0.9			10ks;s		sw.	0	0	cloudy	M. Morita.
Nobiru	30.11	764.9	30.13	765.3	59.9	15.5	83	sse.	8.8	3.9		3 ck	0	ne.		0	0	fair	H. Midzushima.
Numazu	30.08	764.0	30.11	764.9	65.5	18.6	86	wnw.			1	1 ck	9 s;ks			0	0	cloudy	R. Kanedn.
Osaka	30.06	763.6	30.08	764.0	68.5	20.3	75	nw.	7.7	3.4		0	0			0	0	clear	H. Omura.
Sakai	30.09	764.3	30.10	764.5	64.6	18.1	85	ne.			4	0	8 ks		ne.	0	0	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	30.06	763.4	30.13	765.3	62.6	17.0	80	ese.	6.8	3.0		2cs;ck	4 ks	n.	s.	0	0	fair	The Staff.
Wakayama	30.02	762.6	30.07	763.9	68.1	20.1	75	sw.	3.9	1.7		0	0			0	0	clear	K. Sakai.
Shimonoseki	29.92	759.9	30.06	763.5	69.4	20.8	73	calm			0	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.93	760.2	30.12	765.0	74.4	23.6	62	se.	21.5	9.6		0	3 k;ks		ssw;se	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.65	600.6	29.87	758.6	65.7	18.7	72	ene.	inap.	inap.		10 cs	0			0	0	very cloudy	Prof. Vicente Fernandez.
Leon	24.27	616.4	29.84	757.9	65.3	18.5	82	nw.	0.9	c.4		10 c	0			0	0	covered	Prof. M. Leal.
Mazatlan	29.59	751.6	29.85	758.1	75.1	23.9	93	ese.	0.9	0.4			10 n		ese.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					70	21.1	93	e.	11.5	5.1		2 c	0	e.		0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.38	771.7	30.38	771.7	69.4	20.8		e.			2					0	0		
Groningen	30.26	768.6	30.32	770.0	61.3	16.3		nnw.			1					0	0		
Helder	30.33	770.3	30.33	770.3	59.7	15.4		wnw.			2					0	0		
Hellevoetsluis	30.37	771.4	30.37	771.4	67.5	19.7	66	w.			2					0	0		
Utrecht	30.31	769.8	30.35	771.0	70.2	21.2	60	wnw.			3		5			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	758.9			81.5	27.5	80	ne.	0.5	0.2			7			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	30.13	765.3	30.19	766.9	51.4	10.8	86	wnw.	11	5			10			0.031	0.8	raining	
Brono	29.93	760.3	29.97	761.3	50.4	10.2	79	sw.			6		10			0	0		
Christiania	29.85	758.1	29.99	761.7	69.1	20.6	47	sw.	7	3			5			0.016	0.4		
Gjesvær	29.82	757.5	29.85	758.1	47.5	8.6		w.			2		10						
Lodingen	29.88	758.9	29.93	760.1	49.5	9.7	71	wsw.			6		9			0.075	1.9		
PORTUGUESE.																			
Angra, Azores	29.88	758.9	30.04	762.9	65.7	18.7	92	s.	7.4	3.3			6			0.669	17.0		Dr. J. A. Sampaio.
Campo Major	29.20	741.6	30.17	766.4	74.1	23.4	44	ene.	4.9	2.2			4			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.15	765.9	30.24	768.1	68.0	20.0	61	calm	2.5	1.1			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.86	758.5	30.19	766.8	73.6	23.1	41	nne.	15.4	6.9			1			0	0		The Staff.
Ponta Delgada, Azores	30.02	762.4	30.09	764.2	64.8	18.2	94	sse.	15.0	6.7			10			0.693	17.6		
Saint Paul de Loando	29.82	757.3	30.02	762.4	76.8	24.9	80	wnw.			1		5	s.		0	0		
San Salvador	28.15	714.9	29.99	761.8	74.3	23.5	63	s.			2		8			0	0		
Serra da Estrella	25.50	647.8	30.24	768.1	51.8	11.0	66	e.	23.0	10.3			2			0	0		
RUSSIAN.																			
Akmolinski	28.77	730.8	29.82	757.3	64.9	18.3	35	n.	11	5		5 c	0			0.047	1.2		Major K. Lasarew.
Archangel	29.85	758.2	29.87	758.7	65.8	18.8	83	sw.	4	2			9 k			0.276	7.0		Capt. Sseliwerstow
Ashurada	29.91	759.7	29.82	757.3	83.7	28.7	72	wnw.	20	9		0	1 k			0	0		
Astrakhan	29.92	760.0	29.84	757.9	85.3	29.6	37	s.	11	5			9 s			0	0	light clouds	Capt. Wisganow.
Baku	29.95	760.8	29.91	759.6	79.2	26.2	52	n.	22	10		0	2 ks			0	0		
Barnaul	29.26	743.1	29.75	755.6	54.1	12.3	61	n.	13	6			10			0.012	0.3		Meteorological Obs'y
Bielosersk	29.53	750.1	29.97	761.3	81.7	27.6	42	s.	4	2		0	8 k			0.118	3.0		
Dorpat	29.78	756.5	30.02	762.5	69.8	21.0	61	wsw.	4	2		0	2 k			0	0		Observatory.
Ekaterinburg	28.95	735.2	29.85	758.3	78.3	25.7	30	wnw.	18	8			10			inap.	inap.	hazy	Meteorological Obs'y
Elissawetgrad	29.60	751.9	30.03	762.7	79.9	26.6	50	ese.	9	4		c	7 ks			0	0		
Irkutsk	28.28	718.2	29.88	758.9	58.8	14.9	51	w.			1		0			0	0		
Kasalinsk	29.36	745.7	29.54	750.2	92.1	33.4	23	nw.	4	2		0	8 k						
Kasan	29.78	756.3	30.03	762.8	80.2	26.8	36	ssw.	2	1		0	1 k			0	0		Observatory.
Kem	29.72	755.0	29.78	756.3	73.4	23.0	46	sw.	45	20			9 k			0	0		
Kertch	29.94	760.5	29.97	761.1	80.6	27.0	61	calm	0	0		0	4 k			0	0		Lagorio & Sastyrea.
Kieff	29.37	746.0	29.97	761.1	82.2	27.9	47	e.	2	1		0	6ks;n			0	0		Observatory.
Koslov	29.46	748.3	29.98	761.5	71.1	21.7	95	ne.	13	6		0	7 ks			0.079	2.0		
Libau	30.10	764.4	30.12	765.0	58.6	14.8	67	wsw.	4	2			0			0	0		E. Quaas.
Lugan	29.70	754.4	29.88	758.9	80.4	26.9	35	nnw.	13	6			5			0	0		Meteorological Obs'y.
Moscow	29.54	750.2	29.98	761.5	78.1	25.6	40	ne.	2.2	1.0		0	0 ks			0	0		Meteorological Obs'y
Nikolaiev	29.94	760.4	30.01	762.3	85.6	29.8	47	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.71	754.6	29.80	756.8	55.6	13.1	91	e.	2	1			0			0	0		Iwanow.
Pekin, China	29.78	756.5	29.93	760.1	81.1	27.3	47	se.	3.4	1.5		0	1 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.52	749.8	29.85	758.1	93.6	34.2	11	ne.	1.1	0.5			0			0	0		
Petrozavodsk	29.73	755.1	29.92	759.9	76.6	24.8	50	nw.	11	5		0	7 ks			0.020	0.5		Dr. Bergmann.
Pinsk	29.51	749.5	29.98	761.6	78.1	25.6	63	ssw.	4	2			10 n			0	0		
Poti	29.93	760.3	29.97	761.1	75.4	24.1	88	w.	4	2			10 n			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
St. Petersburg	29.94	760.4	29.96	761.0	72.1	22.3	63	nw.	11	5		0	8 n			0.079	2.0	heavy clouds	Central Physical Obs'y.
Samarkand	27.43	696.6	29.73	755.2	84.9	29.4	26	e.	7.8	3.5		0	0			0	0		Major Lasarew
Semipalatinsk	29.16	740.7	29.80	757.0	62.1	16.7	66	calm	0	0			9			0.520	13.2		
Sevastopol	29.76	755.8	29.97	761.3	79.3	26.3	49	nw.	4	2		0	3 n			0	0		
Staroi Bykhov	29.61	752.0	30.05	763.2	72.9	22.7	67	sse.	7	3			10 n					thund'r st'm	
Tashkend	28.19	715.9	29.73	755.2	88.5	31.4	27	calm	0	0		0	0			0	0		Torch, A. M.
Tiflis	28.48	723.3	29.83	757.6	77.5	25.3	45	w.	4	2			9 ks			0	0		Physical Observatory.
Vernoe	27.35	694.8	29.72	755.0	76.6	24.8	39	calm	0	0		0	1 k			0	0		
Viatka	29.40	746.7	30.00	761.9	81.0	27.2	30	calm	0	0			0			0	0		
Warsaw	29.64	752.8	30.05	763.3	64.4	18.0	80	nnw.	9	4			10 kn			1.571	39.9	thund'r st'm	Astronomical Obs'y.
Yeniseisk	29.45	748.1	29.74	755 4	45.9	7.7	83	w.	11	5			10			0.039	1.0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.28	769.1	53	11.7	86	wsw.			3	3	0	wsw.		0.1	3.	light clouds	J. Youngclause
North Unst			30.14	765.5				sw.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.06	763.5	30.16	766.1	70.9	21.6	70	s.	2.7	1.2		0	7			0.169	4.3		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.30	769.7	30.36	771.2	70.9	21.6	63	nw.	1.3	0.6		2	3	se.		0.154	3.9	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.34	694.5	30.32	770.1	57.2	14.0	70	ne.	6.3	2.8		0	8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.00	711.1	30.16	766.1	73.4	23.0	41	ne.	14.3	6.4		0	7			0.047	1.2	cloudy	The Staff.
Murcia, Met. Obs'y	30.03	762.7	30.13	765.2	66.6	19.2	70	ene.	2.2	1.0		5	5	wnw.		0.024	0.6	covered	Olayo Diaz, Director.
Oviedo	29.60	751.9	30.36	771.2	61.7	16.5	69	n.	8.9	4.0		4 k	4 k	s.	n.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.35	745.5	30.23	767.9	68.2	20.1	51	ne.	17.4	7.8		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.93	760.2	29.99	761.8	80.3	26.8	81	ese.	2.2	1.0		c	0	nne.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.5	29.88	758.9	81.0	27.2	84	sw.	19.8	8.9		0	8 ks		e.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.08	764.0	30.18	766.4	73.9	23.3	61	wnw.	9.1	4.1		0	5		nw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.8	30.04	763.1	78.1	25.6	95	s.	5.6	2.5			10 kn		s.	0.008	0.2	overcast	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.80	756.8	29.84	757.8	67.3	19.6	61	nw.			4		5			0.547	13.9		
Umea	29.84	757.8	29.89	759.1	69.1	20.6	38	nw.			4		1			0	0		
Hernosand	29.88	758.9	29.93	760.2	68.7	20.4	37	sw.			4		0			0.150	3.8		
Stockholm	29.84	757.8	30.01	762.3	66.2	19.0	69	ssw.			2		8			0.079	2.0		
Wisby	29.91	759.8	29.97	761.3	57.6	14.2	72	w.			4		0			0	0		
Sub-series.																			
Upsala	29.92	759.9	30.00	762.1	63.9	17.7	70	ne	2.9	1.3			2		w.	0.031	0.8		S. G. Fineman.
SWISS.																			
Geneva	28.78	730.9	30.17	766.4	64.6	18.1	58	nne.			6		4			0	0	cloudy	The Observatory.
TURKISH.																			
Constantinople			30.04	763.0	79.2	26.2	62	ese.	9	4.0			4		ne.	0	0		The Observatory.
Valona			30.23?	767.9?	86.9	30.5		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.93	760.2	82.0	27.8	59	wsw.			2		1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.90	683.2			72	22.2	79						7 k		nw.			rainy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.60	751.8	29.68	753.9	73	22.8	71	s.	8	3.6			10 s		sw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.17	740.9	29.82	757.4	50	10.0	64	nw.	20	8.9		3 k	2 s	w.		0.01	0.3	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.02	635.5	29.77	756.1	42	5.6	62	e	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.98	685.3	29.76	755.9	49	9.4	52	sw.	13	5.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.78	731.0	29.93	760.2	73.5	23.1	90	sw.	14	6.3			10 n			0.13	3.3	light rain	Edward A. Beals.
Atlantic City, New Jersey	29.75	755.6	29.76	755 9	60	15.6	100	s.	12	5.4			fg			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	29.79	756.7	29.98	761.5	74.5	23.6	88	s.	2	0.9			10 s		sw.	0.15	3.8	cloudy	John Healy.
Baltimore, Maryland	29.73	755.1	29.78	756.4	75	23.9	69	s.	6	2.7		2 ck	7 s	sw.	sw.	0	0	cloudy	Geo. W Felger.
Barnegat City, New Jersey	29.75	755.6	29.77	756.1	64.5	18.1	90	sw.	12	5.4			fg			0	0	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.84	757.9	29.86	758.4	38.8	3.8	89	sw.	22	9.8			10 n			0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.46	722.9	30.00	762.0	47.0	8.3	86	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.06	687.3	29.82	757.4	69	20.6	61	calm	0	0		3 c	0			0	0	clear	S. Wheaton.
Billings, Montana	26.66	677.2	29.80	750.9	46	7.8	56	w.	2	0.9		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.15	715.0	29.91	759.7	52	11.1	69	sw.	8	3.6		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.72	754.9	29.76	755.9	62	16.7	93	sw.	19	8.5			fg.			0	0	dense fog	J. T. Elker.
Boise City, Idaho	27.06	687.3	29.84	757.9	59.5	15.3	57	sw.	4	1.8		1 k	0	s.		0	0	clear	J. Kenealy.
Boston, Massachusetts	29.53	750.0	29.68	753.9	73.5	23.1	71	sw.	12	5.4		3 c;ck	2 s			0	0	fair	O. B. Cole.
Brownsville, Texas	29.79	756.7	29.83	757.7	83.0	28.3	85	s.	12	5.4			10 s		s.	0	0	cloudy	E. C. Imlay.
Buffalo, New York	28.98	736.1	29.72	754.9	55.2	12.9	100	s.	6	2.7			fg			0.25	6.3	dense fog	W. Finn.
Buford, Fort, Dakota	27 89	708 4	29.85	758.2	49	9.4	86	s.	4	1.8		5 k	0	w.		0	0	fair	A. Schneider.
Burlington, Vermont	29.34	745.2	29.63	752.6	68.0	20.0	78	n.	6	2.7			10 s		w.	0.98	24.9	cloudy	D. N. Farnell.
Cairo, Illinois	29.51	749.5	29.96	759.4	69.7	20.9	91	w.	5	2.2			10 s		w.	1.04	26.4	threatening	W. H. Ray.
Cape Henry, Virginia	29.84	757.9	29.86	758.4	79.0	26.1	82	s.	14	6.3		8 cs	0	w.		0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.74	755.4	29.77	756.1	70.0	21.1	90	s.	13	5.8		3 c	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.24	742.7	29.92	760.0	47	8.3	100	nw.			1		fg.		nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.00	762.0	30.02	762.5	83	28.3	74	s.	7	3.1		0	3 k		s.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.95	760.7	30.00	762.0	80	26.7	88	sw.	7	3.1		3 ck	5 s	sw.	sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.08	738.6	29.92	760.0	78.0	25.6	74	sw.	5	2.2		6 cs	0	sw.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.07	738.4	29.88	758.9	70.5	21.4	90	e.	3	1.3		0	9 s		w.	0.96	24.4	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.14	613.1	29.88	758.9	35.9	2.2	86	w.	3	1.3		0	0			0.07	1.8	clear	E. McGovern.
Chicago, Illinois	29.23	742.4	29.92	760.0	54.9	12.7	68	n.	12	5.4		10 ck	0	w.		0.63	16.0	cloudy	John Laurens.
Chincoteague, Virginia	29.79	756.7	29.81	757.2	73	22.8	97	s.	6	2.7		2 ck	0	nw.		0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.19	741.4	29.84	757.9	72.0	22.2	82	nw.	3	1.3			10 ks		w.	0.33	8.4	cloudy	L. Dunne.
Cleveland, Ohio	29.07	738.4	29.80	756.9	64.9	18.3	82	w.	5	2.2			10 s		w.	0.44	11.2	cloudy	J. B. Newlin.
Coleman City, Texas	28.17	715.5	29.92	760.0	67	19.4	70	ne.	16	7.2			10 s			0	0	cloudy	T. J. Kenan.
Columbus, Ohio	28.95	735.0	29.80	756.9	68	20.0	84	s.	4	1.8			10 s		s.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.04	712.2	29.92	760.0	68.0	20.0	84	ne.	18	8.0			10 s			0	0	cloudy	J. McGlone.
Davenport, Iowa	29.32	744.7	29.96	761.0	59	15.0	81	n.	5	2.2			10 s		nw.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	29.81	757.2	61	16.1	84	ne.	8	3.6		0	5 ks		n.	0	0	threatening	J. Williams.
Dayton, Washington T'y	28.07	713.0	29.81	757.2	50	10.0	74	sw.	1	0.4		5 c	0			0	0	fair	D. Moore.
Deadwood, Dakota	25.34	643.6	29.78	756.4	45	7.2	65	s.	2	0.9		0	0			0.08	2.0	clear	F. Wilson.
Delaware Breakwater, Del.	29.76	755.9	29.78	756.4	75	23.9	82	sw.	20	8.9		2 cs	0			0	0	clear	T. S. Townsend.
Denver, Colorado	24.80	631.4	29.90	759.4	41.5	5.3	70	s.	5	2.2		0	0			0.23	5.8	clear	F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.06	763.5	55	12.8	74	n.	4	1.8		5 cs	5 s	w.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.10	739.1	29.79	756.7	63.0	17.2	84	nw.	5	2.2		0	3 k			inap.	inap.	clear	E. R. Brace.
Dodge City, Kansas	27.54	699.5	30.06	763.5	50	10.0	86	ne.	8	3.6		0	5 ks		nw.	inap.	inap.	fair	D. J. Carr.
Dubuque, Iowa	29.32	744.7	30.01	762.2	55	12.8	56	n.	5	2.2			10 s		nw.	0.02	0.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.26	743.2	29.99	761.7	53	11.7	66	calm	0	0		0	0			0.02	0.5	clear	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho	25.23	640.8	29.82	757.4	41	5.0	70	n.	5	2.2		0	0			0	0	clear	H. R. Boynton.
Eastport, Maine	29.50	749.3	29.56	750.8	55.0	12.8	90	s.	10	4.5			10 s		w.	0.04	1.0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.31	693.7	29.98	761.5	54	12.2	77	n.	16	7.2		9 k	0	n.		0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.26	667.0	29.84	757.9	66.0	18.9	47	se.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.03	737.3	29.75	755.6	63	17.2	90	sw.	4	1.8			10 s		sw.	0.57	14.5	cloudy	C. A. Shaw.
Escanaba, Michigan	29.20	743.2	29.91	759.7	49.5	9.7	55	nw.	15	6.7		0	0			0	0	clear	George Heathcote.
Galveston, Texas	29.88	758.9	29.92	760.0	83	28.3	74	s.	10	4.5		3 ck	0	sw.		0.16	4.1	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.23	742.4	29.88	758.9	55.0	12.8	79	n.	14	6.3			10 s		n.	0.95	24.1	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.20	640.1	29.74	755.4	61.9	16.6	46	calm	0	0		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.93	760.2	29.95	760.7	76	24.4	90	sw.	22	9.8		4 c	0	nw.		0	0	fair	R. M. Crawford.
Helena, Montana	25.07	652.0	29.79	756.7	48	8.9	66	w.	4	1.8		3 k	0			0	0	clear	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.66	728.0	30.00	762.0	50.1	10.1	63	s.	5	2.2		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.04	737.6	29.82	757.4	67.3	19.6	78	n.	7	3.1			10 s		n.	0.02	0.5	cloudy	O. F. R. Wappenhans.
Indianola, Texas	29.85	758.2	29.88	758.9	81.6	27.6	90	s.	8	3.6		8 k	0	s.		0	0	cloudy	I. A. Reed.
Jacksonville Florida	29.99	761.7	30.03	762.7	79.5	26.4	60	sw.	8	3.6		3 cs	0	w.		0.11	2.8	clear	J. W. Smith.
Keogh, Fort, Montana	27.39	695.7	29.82	757.4	50	10.0	74	se.	8	3.6		0	0			0	0	clear	W. B. Lamar.
Keokuk, Iowa	29.32	744.7	29.96	761.0	58.0	14.4	75	nw.	8	3.6		10 k	0	nw.		0.12	3.0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.96	761.0	29.98	761.5	81.0	27.2	82	se.	1	0.4		0	4 k		se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.91	759.7	29.93	760.2	78	25.6	90	sw.	17	7.6		2 k	0	w.		0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	28.89	733.8	29.90	759.4	69.2	20.7	98	sw.	6	2.7			10 n		sw.	0.44	11.2	light rain	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.00	762.0	55	12.8	39	nw.	8	3.6		2 c	2 s	nw.		0	0	fair	S. C. Emery.
Leavenworth, Kansas	29.20	741.7	30.07	763.8	58	14.4	70	n.	10	4.5		6 k	0	nw.		0.08	2.0	fair	A. W. Brown.
Lewiston, Idaho	29.01	736.8	29.83	757.7	49.5	9.7	63	calm	0	0		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.55	750.6	29.86	758.4	72	22.2	90	calm	0	0			10 k		sw.	0.46	11.7	cloudy	W. U. Simons.
Los Angeles, California	29.58	751.3	29.97	761.2	53.5	11.9	96	ne.	8	3.6			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.25	742.9	29.80	756.9	72	22.2	84	s.	5	2.2			10 s		sw.	0.15	3.8	cloudy	L. M. Dey.
Lynchburg, Virginia	29.14	740.1	29.81	757.2	76	24.4	74	sw.	2	0.9		0	4 ks		sw.	0	0	fair	Lou's Duane.
Mackinaw City, Michigan	29.22	742.2	29.36	758.4	56.0	13.3	47	nw.	19	8.5		0	8 s			0.03	0.8	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.95	760.7	29.96	761.0	76.0	24.4	97	sw.	19	8.5		5 cs	0	sw.		0	0	fair	William Daly.
Maginnis, Fort, Montana	25.45	646.4	29.78	756.4	54	12.2	51	sw.	13	5.8		6 c	0	sw.		0	0	fair	F. Burke.
Marquette, Michigan	29.24	742.7	29.96	761.0	49	9.4	50	n.	16	7.2		0	0			0.08	2.0	clear	J. Gilligan.
Memphis, Tennessee	29.55	750.6	29.88	758.9	70	21.1	100	s.	2	0.9			10 s		s.	1.53	38.9	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.20	741.7	29.94	760.5	55	12.8	62	ne.	15	6.7		9 cs	0	w.		0.09	2.3	cloudy	W. Line.
Missoula, Fort, Montana	26.62	676.1	29.88	758.9	53	11.7	61	w.	4	1.8		0	0			0	0	clear	J. H. Young.
Mobile, Alabama	29.96	761.0	30.00	762.0	78.5	25.8	89	sw.	1	0.4		7 cs	1 ks	sw.		0.67	17.0	cloudy	C. A. Read.
Montgomery, Alabama	29.68	753.9	29.91	759.7	77	25.0	89	sw.	6	2.7			10 s		sw.	0.09	2.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.97	735.8	29.94	760.5	42	5.6	73	sw.	5	2.2		0	0			0	0	clear	H. White.
Mt. Washington, N. H.	23.60	599.4	29.72	754.9	49.0	9.4	100	nw.	52	23.1			10n;fg		nw.	1.75	44.4	light rain	S. W. Beall.
Nashville, Tennessee	29.29	744.0	29.85	758.2	72.5	22.5	94	w.	5	2.2			10 ks		w.	0.45	11.4	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.61	752.1	29.72	754.9	70	21.1	76	sw.	2	0.9		3 c	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.70	754.4	29.74	755.4	73	22.8	66	sw	6	2.7		1 c	0	sw.		0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.93	760.2	29.98	761.5	79.0	26.1	89	s.	1	0.4		6 cs	3 ks	w.	sw.	0.03	0.8	cloudy	M. Herman.
New York, New York	29.59	751.6	29.76	755.9	70	21.1	84	s.	5	2.2		5 cs	0	sw.		0	0	fair	G. E. Franklin.
Norfolk, Virginia	29.83	757.7	29.86	758.4	82.0	27.8	80	s.	10	4.5		5 cs	0			0	0	fair	Wm. Davis.
North Platte, Nebraska	27.20	690.9	30.00	762.0	49.6	9.8	84	calm	0	0		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.96	761.0	30.00	762.0	46.0	7.8	76	w.	1	0.4		0	1 s			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.10	764.5	56.0	13.3	74	n.	2	0.9		8 c	0			0	0	cloudy	A. Pollak.
Oogiaamie, Alaska	29.56	750.8	29.57	751.1	31.6	— 0.2	100	ese.	9	4.0			10 n			0.02	0.5	light snow	P. H. Ray.
Oswego, New York	29.36	745.7	29.68	753.9	60.0	15.6	90	w.	1	0.4			10 s		w.	0.24	6.1	cloudy	J. G. Linsley.
Palestine, Texas	29.42	747.3	29.96	761.0	77.0	25.0	90	e.	2	0.9			10 ks		s.	0	0	threatening	J. W. Byram.
Pensacola, Florida	29.97	761.2	30.00	762.0	80.8	27.1	84	sw.	5	2.2		6c;ck	1 s		w.	sw.	0.27	6.9	fair	M. McGauran.
Philadelphia, Pa.	29.66	753.4	29.76	755.9	73.5	23.1	97	s.	6	2.7		2 c	0	w.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.88	454.1	29.70	754.4	15	— 9.4	87	nw.	33	14.8		1 cs	0			0.22	5.6	clear	H. Hall.
Pioche, Nevada	24.02	610.1	29.82	757.4	56.0	13.3	55	s.	4	1.8		3 k	0	nw.		inap.	inap.	clear	F. R. Day.
Pittsburg, Pennsylvania	28.98	736.1	29.77	756.1	69.5	20.8	90	sw.	8	3.6			10 n		sw.	0.05	1.3	light rain	W. A. Reid.
Poplar River, Montana	27.67	702.8	29.77	756.1				nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.10	739.1	29.77	756.1	55.0	12.8	86	n.	13	5.8		5 ck	0	sw.		inap.	inap.	fair	M. H. Perry
Portland, Maine	29.55	750.6	29.60	751.8	73.0	22.8	71	sw.	12	5.4		7 cs	0	w.		0	0	fair	W. W. Eichelberger
Portland, Oregon	29.87	758.7	29.94	760.5	54.0	12.2	80	nw.	3	1.3		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					78	25.6	88	sw.	14	6.3		10 k	0	w.		0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.73	628.1	29.75	755.6	45.0	7.2	51	calm	0	0		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass.	29.68	753.9	29.71	754.6	66.5	19.2	81	sw.	13	5.8		2 c	2 s;hz	w.	w.	0	0	fair	C. N. Kitchel.
Punta Rassa, Florida	30.00	762.0	30.01	762.2	78	25.6	89	e.	5	2.2		1 c	1 k		se.	0.50	12.7	clear	W. J. Evans.
Red Bluff, California	29.55	750.6	29.90	759.4	65	18.3	58	s.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.05	737.9	29.70	754.4	63	17.2	100	w.	3	1.3			10n;fg		w.	0.19	4.8	light rain	E. W. McGann.
Roseburg, Oregon	29.40	746.7	29.95	760.7	48.8	9.3	77	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.82	757.4	29.89	759.2	60.0	15.6	81	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.35	745.5	29.94	760.5	60.7	15.9	80	nw.	12	5.4			10 s		nw.	0.41	10.4	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.49	749.0	29.52	749.8	43	6.1	93	ne.	8	3.6			10 s			0	0	threatening	A. P. Leavitt.
St. Paul, Minnesota	29.17	740.9	30.01	762.2	50.0	10.0	71	calm	0	0		0	hz.			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	28.96	735.6	29.81	757.2	48	8.9	77	sw.	11	4.9		2 cs	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.62	650.7	29.84	757.9	58	14.4	40	calm	0	0		10 k	0	sw.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.22	742.2	29.90	759.4	79	26.1	82	se.	4	1.8			9 s			0	0	cloudy	J. H. Davis.
San Diego, California	29.87	758.7	29.94	760.5	62.7	17.1	81	n.	2	0.9			8 s		nw.	0.05	1.3	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	29.73	755.1	29.76	755.9	74.0	23.3	71	s.	12	5.4		7 c	0	nw.		0	0	fair	B. A. Blundon.
Sanford, Florida	29.97	761.2			83.1	28.4	82	s.	2	0.9		3 c	0	w.		0.12	3.0	clear	J. B. Marbury.
San Francisco, California	29.89	759.2	29.96	761.0	57.5	14.2	90	sw.	6	2.7			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.32	592.3	29.82	757.4	52	11.1	64	s.	14	6.3		5 k	0	s.		0	0	fair	H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	83	28.3	72	sw.	8	3.6		1 c	0	sw.		0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.23	666.2	29.80	756.9	47	8.3	71	sw.	1	0.4		1 cs	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.72	754.9	29.95	760.7	72.8	22.7	90	nw.	6	2.7			10 s		nw.	0.78	19.8	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.78	731.0	29.98	761.5	66.5	19.2	48	ne.	24	10.7		0	8 ks		sw.	0	0	cloudy	W. M. Mattingly.
Sitka, Alaska	30.00	762.0	30.06	763.5	47.1	8.4	77	w.	3	1.3			10 k		w.	0.02	0.5	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.45	748.0	29.91	759.7	70.3	21.3	90	n.	8	3.6			10 s		w	0.33	8.4	cloudy	J. B. Campbell.
Smithville North Carolina	29.94	760.5	29.98	761.5	79	26.1	88	sw.	14	6.3		1 ck	8 k		sw.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.68	703.1	29.72	754.9	51	10.6	74	sw.	4	1.8		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.26	743.2	29.93	760.2	59.5	15.3	81	n.	8	3.6			10 s		w.	0.08	2.0	cloudy	T. B. Jennings.
Starkville, Miss.	29.46	748.3	29.93	760.2	70	21.1	90	sw.	6	2.7			10 n		sw.	1.17	29.7	thund'r st'm	C. Dill.
Stockton, Fort, Texas	27.00	685.8	29.92	760.0	65	18.3	93	n.	12	5.4			10 s		ne.	0	0	cloudy	A. J. Warren.
Thomas, Camp, Arizona	27.15	689.6	29.78	756.4	58	14.4	44	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.10	739.1	29.78	756.4	66	18.9	84	w.	5	2.2		4 k	4 s	w.	w.	0.21	5.3	clearing	A. Buell.
Tucson, Arizona	27.47	697.7	29.77	756.1	62	16.7	39	se.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.33	745.0	29.35	745.5	44	6.7	83	se.	8	3.6			10 n		se.	0.25	6.3	light rain	Samuel Applegate.
Verde, Fort, Arizona					56	13.3	29	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.68	753.9	29.93	760.2	78.0	25.6	88	n.	4	1.8			10 s		s.	inap.	inap.	threatening	James Kenealy.
Visalia, California	29.52	749.8	29.89	759.2	62.1	16.7	79	calm	0	0		2 ck	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.61	625.1	29.99	761.7	35.5	1.9	91	sw.	3	1.3		0	0			0.07	1.8	clear	T. M. Ambler.
Washington, D. C.	29.67	753.6	29.78	756.4	76.7	24.8	73	s.	3	1.3		10 cs	0	sw.		0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.22	666.0	29.99	761.7	43.5	6.4	84	sw.	5	2.2		2 k	2 s	sw.	sw.	0.41	10.4	fair	F. H. Brandenburg.
Williamsport, Pa.	29.15	740.4	29.75	755.6	71	21.7	83	calm	0	0			10 ks		w.	0.22	5.6	threatening	B. F. Hough.
Wilmington, N. Carolina	29.92	760.0	29.98	761.5	79.5	26.4	85	sw.	12	5.4			10 s		sw.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.54	648.7	29.80	756.9	46	7.8	59	ne.	3	1.3		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.83	732.3	30.11	764.8	54	12.2	67	nw.	3	1.3		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.76	755.9	69.6	20.9	71	se.	3	1.3		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquim Gomez.
Kingston, Jamaica, W. I.			30.00	762.0	84	28.9	58	e.	3	1.3		9 cs	1 s	sw.	e.	0.01	0.3	cloudy	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.05	763.3	79	26.1	87	s.			2	4 c	5 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.43	747.5	29.99	761.7	77	25.0	89	calm			0		10 ks		calm	0.08	17.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.																			Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	29.87	758.7	29.93	760.2	39.5	4.2	95	sw.	13	5.8		3 k	1 s	sw.	sw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 45° 19′, E. 14° 26′	30.12	765.0	76	24.4	68	calm			0		3	ssw.						d. clouds
H. M. Dockyard, Bermuda, Atlantic	30 11	764.8	76.5	24.7	88	wsw.			2		4	wsw.						d. clouds.
H. M. S. Gannet, N. 29° 00′, W. 18° 35′	30.22	767.6	69.5	20.8	65	nne.			3		10					2	var.	d. clouds.
H. M. S. Himalaya, N. 34° 25′, E. 24° 38′	30.08	764.0	75	23.9	81	nw.			2		0					2	wnw.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.90	759.4	76	24.4	100	nnw.			2		0							blue sky.
S. S. Monarch, Trieste, Austria	30.08	764.0	74	23.3		nw			1		2							d. clouds.
H. M. S. Minotaur, N. 42° 03 W. 9° 00′	30.26	768.6	67	19.4	72	wnw.			1		0					1	nw.	dense mist.
H M. S. Opal, N. 10° 52′, W. 18° 26′	29.97	761.2	82	27.8	83	calm			0		4	ene.				4	nnw	d. clouds.
H. M. S. Tyne, N. 7° 40′ W. 23° 30′	30.08	764.0	81	27.2	78	ese.			3		5	ese.				2	se.	d. clouds
H. M. S. Thetis, N. 27° 05′, W. 20° 03′	30.23	767.8	71	21.7	75	nne.			1		6	nne.				2	nne.	d. clouds.
H. S. M. S. Eugenie, N 47° 55′, W. 7° 43′	30.49	774.4	63.0	17.2	93	ene.			3		1							blue sky.
U. S. Navy Yard, Portsmouth, N. H*	29.59	751.6	73	22.8	72	w.	11	4.9			8		w.	0	0			fair.
U. S. S. Lancaster, Kronstadt, Russia	30.02	762.5	68	20.0	84	wnw.			5		8		wnw.			sm'h		fair.
U. S. S. Nipsic, Tompkinsville, Staten Island, N.Y*	29.73	755.1	72	22.2	100	w.			1		8							cloudy.
U. S. S. Portsmouth, Conimicut, R.I	29.75	755.6	65	18.3	100	sw.			3		5							foggy.
U. S. S. Powhatan, Port Royal, S. C	29.96	761.0	80	26.7	91	sw.			2		2		sw.					clear.
U. S. S. Quinnebaug, Libreville, Guiana	30.04	763 0	82	27.8	75	sse			1		8		se.			sm'h		cloudy.
U. S. S. Saratoga, Poughkeepsie, N. Y	29.75	755.6	80	26.7	55	sse.			3		5?		sse.	0	0	sm'h		clear?
U. S. S. Vandalia, N. 29° 34′, W. 65° 03′	30.21	767.3	75	23.9	86	sw.			2		2		calm			sm'h		fair.
Inchkeith, N. 48° 13′, W. 16° 40′	30.52	775.2	62.5	16.9	83	var.			1		4							d. clouds.
H. P. M. S. Rio Lima, Porto Praya, Cape Verd Islands			76.5	24.7	80	ne			3		0					3	se.	blue sky.
S. S. Illinois, N. 39° 45′, W. 51° 44′			72	22.2		nnw.			5		3		nw.			sm'h	nw.	fine.
S. S. Lord Gough, N. 51° 20′, W. 9° 40′	30.50	774.7	60	15.6		wnw.			2		2			0	0	sm'h		clear.
S. S. Ohio, Liverpool, Engt	29.39	746.5	66	18.9		w.			1		4		w.	0	0			clear.
S. S Pennsylvania, Philadelphia, Pat	29.80	756.9	75	23.9		n.			2		4		n.	0	0			clear.
S. S. British Princess, N. 48° 12′, W. 28° 27′			59	15.0		s.			4		8		s.	0	0	mod.	ssw.	cloudy.
S. S. Circassian, N. 50° 26′, W. 43° 35′	29.89	759.2	55	12.8	100	s.			4		10					3	e.	foggy.
S. S. Grecian, Quebec, Canada	29.52	749.8	65	18.3	89	sw.			2		2		wsw.	0	0			clear.
S. S. Nova Scotian, St. Johns, N. F	29.69	754.1	50	10.0		wsw.			2		0							clear.
S. S. Scandinavian, N. 47° 41′, W. 37° 21′	30.00	762.0	51	10.6		se.			2		10					light	se.	foggy.
S. S. Prussian, Glasgow, Scotland	30.32	770.1	72	22.2		wnw.			5		8		nw.					
S. S. Jason, N. 41° 23′, W. 59° 26′			65.3	18.5		sw.			4		9		n.			4	wsw.	foggy.
S. S. Alvo, off Monte Christi, Hayti. W.I*	29.98	761.5	78	25.6		e.			5		6		ene.	0	0	long	e.	cloudy.
S. S. Devonia, N. 42° 05′, W. 56° 38′*†	30.00	762.0	68	20.0		wsw.			3		2		wsw.			sli't	sw.	clear
S. S. Furnesia, Liverpool, Engt	30.36	771.1	64	17.8	94	wnw.			2		6		wnw.	0	0			fair.
S. S. Elysia, N. 55° 30′ W. 7° 20′	30.42	772.7	56.5	13.6		wsw.			3		10			6 h'r	6 h'r	sli't	wsw.	rain & fog.
S. S. Llandaff City, Bristol, Engt	30.32	770.1	60	15.6		s.			2		8		sw.	0	0			cloudy.
S. S. Gallia, N. 49° 18′ W. 34° 00′	30.01	762.2	56	13.3	94	sse.			5		10			rain	rain	sm'h		misty.
S. S. Marathon, Gibraltar, Mediterranean	30.18	766.6	70	21.1		e.			4		2		e.	0	0	sm'h	e.	fine.
S. S. Pavonia, N. 49° 41′, W. 25° 43′	30.26	768.6	61	16.1	88	ese.			5		6?		ese.	5 h'r	5 h'r	mod.	sse.	clear?
S. S. Colina, N. 47° 21′, W. 60° 08′†	29.49	749.0				sse.			2		2		sse.	0	0	sm'h		clear.
S. S. Rhinwindda, N. 41° 57′ W. 60° 40′			64	17.8		wsw.			5		1		n.			chop	wsw.	fine.
S. S. Abyssinia, N. 50° 14′, W. 22° 56′	30.39	771.9	58	14.4	94	ese.			3		0			0	0	light	var.	blue sky.
S. S. Wisconsin, N. 48° 36′ W. 32° 46′			59	15.0		se.			4		10		sse.	4 h'r	4 h'r	mod.	sse.	drizzling.
S. S. Wyoming, N. 40° 44′, W. 68° 31′	29.84	757.9	56	13.3		sw.			4		fg.			0	0	mod.	w.	foggy.
S. S. Bohemia, N. 41° 25′, W. 49° 30′						n.			4		0			0	0	sm'h	nw.	clear.
S. S. Gellert, New York, N. Y	29.77	756.1	77	25.0	73	sw.			1		2			0	0			clear.
S. S. Rugia, N. 57° 17′, W. 14° 14′	30.27	768.8	55	12.8		w.			5		5?		w.	0	0	long	wsw.	overcast?
S. S. Silesia, Havre, France	30.48	774.2	64.0	17.8		e.			2		5		e.	0	0			fair.
S. S. City of Berlin, N. 49° 50′, W. 30° 00′	30.19	766.8	58	14.4	88	e.			4		10		se.	20 h'r	20 h'r	mod.	e.	overcast.
S. S. City of Paris, N. 41° 01′, W. 47° 48′*†	29.79	756.7				var.			3		1		var.	0	0	mod.	s.	clear.
S. S. Virginian, N. 41° 25′, W. 55° 19′*	30.01	762.2	72	22.2		ssw.			4		0			0	0	sm'h		dense fog.
S. S. Archimedes, N. 40° 47′, W. 60° 30′	29.86	758.4				wsw.			5		2		calm	0	0	mod.	sw.	fine.
S. S. Hevelius, N. 32° 30′, W. 17° 00′†	30.32	770.1	70	21.1		ne.			3		2		nne.	0	0	sm'h		clear.
S. S. Ptolemy, N. 41° —′, W. 11° 15′	30.29	769.4	66.1	18.9	74	ene.			4	1 c	0			0	0	2	n.	clear.
S. S. Colorado, N. 28° 52′, W. 78° 24′†	30.08	764.0	75	23.9		sse.			2		4		s.	light	light	small	s.	fair.
S. S. Chalmette, New York, N. Y†	29.86	758.4	83	28.3		ssw.			1		3			0	0			clear
S. S. Hermod. N. 34° 28′, W. 69° 00′†	30.10	764.5	73	22.8		sw.			4		6		wsw.	0	0	sm'h	sw.	fair
S. S. City of Merida, N. 23° 11′, W. 83° 39′†	30.03	762.7	82	27.8		e.			1		5		e.	0	0	light	e.	fair.
S. S. Denmark, N. 40° 32′, W 71° 00′†	29.77	756.1	58	14.4		sw.			4		5		sw					dense fog.
S. S. Egypt, N. 41° 21′. W. 47° 46′	29.75	755.6	64	17.8		nnw.			4		2		nnw.	3 h'r	3 h'r	mod.	nnw	clear.
S. S. Erin, N. 49° 33′ W. 13° 31′			63	17.2		calm			0		0			0	0	sm'h		clear
S. S. Helvetia, N. 42° 18′, W. 45° 43′	29.82	757.4	68	20.0	90	ssw.			4		10		wsw.	0	0	sm'h	ssw.	overcast.
S. S. The Queen, English Channel	30.36	771.1	65	18.3	63	calm			0		0			0	0	sm'h		hazy.
S. S. Braunschweig, off Smith's Light, Va	29.84	757.9	75.5	24.2	90	sw.			3		2		sw.	0	0	sm'h	sw.	clear.
S. S. Donau, N. 50° 06′, W. 3° 37′	30.59	777.0				calm			0		5		n.	0	0	sm'h		fair.
S. S. Fulda, N. 42° 00′, W. 53° 11′	29.88	759.0	65	18.3	89	wsw.			5		2		wsw.	2 h'r	2 h'r	long	w.	clear.
S. S. Habsburg, N. 41° 09′, W. 54° 42′	29.92	760.0				w.			6		1		w.	0	0	r'gh	w.	clear.
S. S. Hohenstaufen, N. 42° 36′, W. 46° 24′	29.74	755.4				s.			4		9		nne.	3 h'r	3 h'r	light	var.	cloudy.
S. S. Hermann, N. 44° 30′, W. 39° 06′	29.88	758.9	64	17.8	83	sse.			3		6		sse.	0	0	long	ese.	fair.
S. S. Main, N. 47° 55′, W. 27° 31′	30.19	766.8	59	15.0		sse.			5		7		sse.	4 h'r	4 h'r	mod.	se.	fair.
S. S. Strassburg, N. 49° 48′, W. 6° 39′	30.46	773.7	60.0	15.6	88	n.			2		5		n.	0	0	1	nnw.	fair.
S. S. City of Augusta, Savannah, Ga†	30.11	764.8				wnw.			4		8		w.	0	0			cloudy.
S. S. Colon, N. 34° 18′, W. 73° 38′†	30.05	763.3	78	25.6		sw.			4		0			0	0	mod.	sw.	clear.
S. S. Muriel, Trinidad, W. I	30.00	763.5	83	28.3		e.			2		10		e.			sm'h		drizzling.
S. S. Orinoco, New York, N. Y†	29.79	756.7				sw.			2		4		wsw.	0	0			fair.
S. S. Belgenland, N. 40° 22, W. 54° 30′			69	20.6	100	wnw.			6		1			0	0	mod.	w.	clear.
S. S. Nederland, N. 48° 51′, W. 26° 17′			60	15.6		sse.			3		2		s.	0	0	mod.	ssw.	clear.
S. S. Rhynland, Antwerp Belgium	30.43	772.9	66	18.9	74	n.			4		6		nne.	0	0			fair.
S. S. Pennland, N. 49° 33′, W. 8° 12′	30.46	773 7	58	14.4	94	nne.			2		1		nne.	0	0	sm'h		clear.
S. S. Waesland, N. 40° 39′, W. 67° 34′	29.89	759.2	58	14.4		ssw.			5		9		ssw.	0	0	mod.	ssw.	dense fog.
S. S. P. Caland, Jersey City, N. J	29.76	755.9	74.8	23.8	88	ssw.			2		3		ssw.					clear.
S. S. Schiedam, N. 48° 53′ W. 19° 07′	30.47	773.9	63	17.2	78	sse.			3		2		s.	0	0	sm'h		clear.
S. S. W. A. Scholten, Rotterdam, Holland	30.35	770.9	63.0	17.2	78	wnw.			2		3		w.	0	0			clear.
S. S. Belize, N. 21° 25′, W 74° 07′*†	30.09	764.3	79	26.1		e.			4		10		e.	3 h'r	3 h'r	sm'h		cloudy.
S. S. Caracas, N. 14° 20′, W. 68° 50′†	30.02	762.5	83	28.3	83	ene.			6		5		ene.	0	0	r'gh	ene.	hazy.
S. S. Valencia, N. 38° 18′, W. 72° 18′†	30.07	763.8	72	22.2	90	s.			4					0	0	light	ssw.	dense fog.
S. S. State of Indiana, N. 40° 30′, W. 69° 10′*†	29.75	755.6	58	14.4		sw.			3		8		sw.	0	0	sm'h		foggy.
S. S. State of Nebraska, N. 47° 00′, W. 37° 30′*†	29.94	760.5	60	15.6		ene.			4		8		ne	driz.	driz.	sm'h		foggy.
S. S. Thingvalla, N. 41° 07′, W. 64° 06′†	30.00	762.0	67.1	19.5		ssw.			3		2		ssw.	2 h'r	2 h'r	mod.	ssw.	clear.
S. S. Toledo, N. 36° 13′ W. 2° 30′*†	30.21	767.3	68	20.0		ene.			4		1			0	0	sli't	ne.	clear.
S. S. Romano, N 42° 41′, W. 48° 03′†	29.80	756.9	65	18.3		wnw.			4		8		wnw.			mod.	sw.	showery.
S. S. Dominion, N. 54° 50′, W. 41° 23′			49	9.4		sse.			4		10		s.			mod.	se.	foggy.
S. S. Lake Huron, N. 50° 27′, W. 39° 35′	29.95	760.7	55	12.8		sse.			2		10		sse.			sm'h		dense fog.
S. S. Lake Manitoban, N. 50° 02′, W. 43° 30′	29.91	759.7	52	11.1		se.			4		10		se.	3 h'r	3 h'r	sm'h		dense fog.
S. S. Daniel Steinmann, N. 47° 33′ W. 49° 43′†	29.70	754.4	46	7.8		s.			3		10			0	0	mod.	e.	dense fog.
S. S. Plantyn, N. 47° 11′, W. 34° 29′	29.99	761.7							2		0			4 h'r	4 h'r	sm'h	se.	clear.
S. S. Norman, N. 39° 56′, W. 73° 44′	29.66	753.4				sw.			1		fg		sw.					dense fog.
S. S. Saxon, Boston, Mass.†	29.70	754.4				sw.			4		2							clear.
S. S Celtic, N. 41° 52′, W. 61° 10′†	29.85	758.2	60	15.6		wsw.			6		5		wsw.	0	0	mod.	w.	fair
S. S. Antonio Lopez, Cadiz, Spain	30.19	766.8	67	19.4	76	nw.			3		1			0	0			clear.
Schr. Abbie H. Gheen, N. 39° 40′, W. 74° 20′†	29.92?	760.0?	68	20.0		ssw.			4									foggy
Bk. Aquidneck, N. 30° 26′, W. 46° 51′ *†	30.10	764.5				nw.			2		0			0	0	light	nw.	clear.
Schr. Anna A. Holton, N. 33° 07′, W. 71° 22′ *†	30.12	765.0	80	26.7		sw.			4		2		sw.	0	0	mod.	ssw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Authur Burton, Boston Light, Mass.†	29.65	753.1				ssw.			1		1		ssw.	0	0	sm'h		fine.
Bk. Aureola, N. 42° 20′, W. 38° 20†.	29.85	758.2	74	23.3		calm			0		5		ne.	0	0	mod.	e.	fair.
Bk. Arda, Sackville, N. B.						w.			6		7		w.	2 h'r	2 h'r			fair.
Bk. Alba, N. 41° 17′, W. 63° 31′*†.	29.94	760.5	64.4	18.0		sw.			5					0	0			
Bg. Belle of the Bay, N. 28° 20′, W. 91° 20′†.	29.96	761.0				sse.			5		4		s.	0	0	short	sse.	fair.
Bk. Bayonnaise, N. 44° 20′, W. 11° 10′.			60.8	16		ene.			5		7		e.			sm'h	e.	fine.
Schr. C. R. Flint, Tampico Bar, Mexico†.	29.84	757.9	85	29.4		s.			2		8		se.	1 h'r	1 h'r	r'gh	se.	fair.
Bk. Cato, Bodöe, Norway *†.	29.94	760.5				w.			1									
S Criterion, N. 41° 00′, W. 51° 23′*†.	29.78	756.4				wnw.			5		2		wnw.	sh'rs	sh'rs	light	w.	clear.
Schr. Clotilde, N. 22° 00′, W. 97° 31′*†.	29.85	758.2	85	29.4		se.			3		2		se.	0	0	short	se.	hazy.
S. David Stewart, N. 5° 28′, W. 26° 25′†.	29.90	759.4				var.			1		1		s.	0	0	sm'h		clear.
Bkt. David A. Preston, N. 21° 55′, W. 74° 10′.						se.			4		10		se.	1 h'r	1 h'r	sm'h		squally.
S. E. J. Spicer, N. 44° 15′, W. 42° 30′.	29.84	757.9	68	20.0	95	s.			3		5		sse.	0	0	cross	var.	fair.
Bk. E. D. Bigelow, N. 53° 50′, W. 4° 30′ *†.	30.30	769.6				wsw.			2		8			0	0	sm'h		misty.
U. S. Fish Com. S. S. Fish Hawk, New Pt. Comfort, Va†	30.05	763.3	78	25.6	91	ssw.			3		2		calm	0	0			clear.
Schr. F. E. Waters, N. 35° 30′, W. 75° 20′*†.	30.05	763.3				sw.			4				sw.	0	0	h'vy	sw.	cloudy.
Bgt. George, N. 28° 50′, W. 62° 55′ *†.	30.18	766.6	76	24.4		calm			0		0			0	0	mod.	se.	clear.
Bk. Galeon, N. 23° 50′, W. 84° 00′†.	30.00	762.0	80	26.7		ese.			1		0			0	0	sm'h	e.	blue sky.
Bk. Heinrich & Tonlo, N. 43° 48′. W. 34° 40′†.	29.80	756.9	67	19.4		n.			2		10			0	0	long	se; e.	hazy.
S. Hedwig, N. 36° 23′, E. 13° 56′.	30.06	763.6	74.1	23.4	88	ene.			4		2		ene.	0	0	1	ene.	fine.
Bk. Hattie G. McFarland, Port Royal, S. C†.	30.11	764.8	78	25.6		sw.			2		3		w.	0	0			fine.
Bk. Horace Scudder, N. 9° 26′, W. 43° 00′ *†.	30.11	764.8	77	25.0		ne.			6		10		nne.	8 h'r	8 h'r	long	ne.	squally.
Schr. Isabel Alberto, N. 37° 30′, W. 75° 00′ †.	29.89	759 2				sw.			3		0			0	0	light	s.	hazy.
Bk. Johanne, N. 44° 44′, W. 25° 54′*†.	30.17	766.3	63	17.2		se.			5		10		se; e.	3 h'r	2 h'r	cross	se; e.	hazy.
Bg. John Wesley, N. 26° 44′, W. 36° 32′*†.	30.05	763.3	76	24.4		w.			2		6		w.	1¼ h'r	1¼ h'r	cross	var.	squally.
Schr. Jennie N. Huddell, Charleston, S. C†.	29.99	761.7	81	27.2		sw.			1		2		sw.	0	0			fair.
S. J. W. Gildemeister, N. 33° 57′, W. 50° 06′.	30.05	763.3	75.2	24	90	wnw.			3		7 k		wnw.			3	wnw.	drizzling.
Bkt. Kryolith, Ivigtut, Greenland *†.	30.00	762.0				calm			0		2			0	0			clear.
Bg. L. & W. Armstrong, N. 28° 30′, W. 60° 07′*†.	30.22	767.6				n.			1		1		nne.	0	0	sm'h	se.	clear.
Light House Tender Laurel, Key West, Fla†.	30.00	762.0	84	28.9		ese.			1–2		9		se.	1½ h'r	1½ h'r			cloudy.
Bk. Louise Adelaide, Matanzas, Cuba, W. I†.	30.04	763.0	82	27.8		calm			0		0			0	0			clear.
Bk. Milo, N. 44° 46′, W. 53° 00′†.	29.70	754.4				wnw.			2				nw.			sm'h		overcast.
S. S. Madrid, N. 36° 30′, W. 25° 32′†.	30.07	763.8	62	16.7	100	se.			5		10		sw.	10 h'r	10 h'r	r'gh	se.	rainy.
Schr. Minnie A. Bonsall, Bridgeport, Conn †.	29.74	755.4	75	23.9		w.			5				s.	4 h'r	4 h'r			
Bk. Matilda C. Smith, N. 50° 00′, W. 3° 20′†	30.43	772.9				var.			1		2		w.	0	0	sm'h		fine.
Bgt. Myrtle, Barbadoes, W. I.*†.	30.15	765.8				e.			5				e.	0	0			fair.
Schr. Maggie Abbott, Baracao, Cuba†	29.99	761.7									3		calm	0	0			clear.
Bk. National Eagle, N. 38° 09′, W. 31° 34′.						s.			3		5		sse.	3 h'r	3 h'r	mod.	se.	fair.
Bg. O. C. Clary, N. 28° 16′, W. 60° 36′*†.	30.18	766.6				ne.			2		0					sm'h	ne.	clear.
Bk. Ottawa, off Folkstone, Eng.	30.35	770.9	59	15.0		ene.			3		6		ne.	0	0	sm'h		fair.
S. Paramita, N. 20° 50′, W. 37° 51′ †.	30.15	765.8	81	27.2		ne.			1		1		wsw.	0	0	long	nnw.	clear.
S. Rudolph,, N. 48° 52′, W. 9° 44′*.			65.4	18.6		nw.			3		1		n.	0	0	sm'h	nw.	clear.
Bg. Rising Sun, Barbadoes, W. I.†.	30.05	763.3	83	28.3		e.								0	0			
Bk. Rosino, N. 42° 22′, W. 19° 48′.			67	19.4		se.			4		fg.			0	0	r'gh	se.	foggy.
Bk. Sunbeam, N. 39° 52′, W. 38° 36′†.	29.92	760.0	67	19.4	89	wnw.			1		2		w.	0	0	mod.	e.	clear.
Bk. Southern Belle, N. 23° 30′, W. 44° 30′†.	30.17	766.3	80	26.7		calm			0					0	0	mod.	n.	clear.
S. Sovereign of the Seas, N. 33° 58′, W. 46° 49′ *†.	30.16	766.1	73	22.8	90	ssw.			2		8		wnw.	5 h'r	5 h'r	sm'h	wnw.	showery.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†.	30.00	762.0	81	27.2		calm			0		7		calm	0	0			fair.
Bgt. Sunlight, N. 37° 38′, W. 69° 37′.						sw.			4		2		sw.	0	0	mod.	ssw.	hazy.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†	29.88	758.9	60	15.6	100	ese.			1		10							threatening.
H. M. S. Boadicea, Simon's Bay, Cape Colony, Africa.	30.30	769.6	57	13.9		nw.			2		3							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata.	29.85	758.2	58	14.4	98	ese.			2		10							overcast.
U. S. S. Brooklyn, Montevideo, Uruguay*.	29.92	760.0	59	15.0	94	e.	8	3.6			10		nw.	0.68	17.3	sm'h		raining.
U. S. S. Galena, Montevideo, Uruguay*.	29.92	760.0	61	16.1	100	ase.			2		10		se.			sm'h		cloudy.
S. Wm. McGilvery, S. 31° 29′, W. 48° 18′ *†.	30.17	766.3	70	21.1	90	ne.			2		8		nnw.	0	0	sm'h		
May Hulse, S. 2° 55′, W. 26° 22′.	30.04	763.0	80	26.7	78	se.			4		2							blue sky.
S. S. Olbers. Bahia, Brazil †.	30.24	768.1	81	27.2	96	ese.			2		8		se.	4 h'r	4 h'r	sm'h		showery.
Bk. Achille F, S. 23° —′, W. 37° —′†.	30.27	768.8	76	24.4	77	ese.			5		4		ene.	0	0	mod.	sse.	fair.
Bk. Ceylon, S. 24° 05′, E. 2° 38′*†.	30.40	772.1	69	20.6	85	ese.			6		9		se.	slt't	slt't	r'gh	se.	cloudy.
S. Dynomene, S. 18° 06′, E. 1° 12′.	30.26	768.6	69	20.6	80	se.			6		6			mod.	mod.	high	sse.	fair.
Bk. Adelaide, S. 23° 00′, W. 41° 30′*†.	30.29	769.4	76	24.4		ne.			5		4		n.	0	0	mod.	ene.	fair.
H. P. M. S. Duque de Tercelra, Mossamedes, Beng'la.	30.03	762.8	69.8	21.0	73	n.			2		10			0	0	2	sw.	overcast.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China.	29.99	761.7	72	22.2	62	calm			0		2	se.						d. clouds
H. M. S. Champion, north coast Bornes Islands.	29.80	756.9	86	30.0	76	calm			0		7							d. clouds
H. M. S. Espiegle, N. 6° 40′, E. 172° 32′.	29.85	758.2	81	27.2	76	ne.			3		10							showery
H. M. S. Flying Fish, N. 37° 28′, E. 126° 34′.	30.01	762.2	70	21.1	82	sw.			1		2							d. clouds.
H. M. S. Magpie, N. 6° 38′, E. 117° 54′.	29.85	758.2	83.6	28.7	75	e.			1		7	e.						d. clouds.
H. M. S. Sheldrake, N. 3° 48′, E. 111° 44′.			83	28.3		sw.			1		2					1	sw.	d. clouds.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′.	30.07	763.8	71	21.7	85	sw.			1		3							d. clouds.
H.P. M. S. Tamega, Macao, China.	29.70	754.4	83.3	28.5	88	sw.			2		10			9 h'r	9 h'r			showery
U. S. Naval Hospital, Yokohama, Japan.	30.18	766.6	65	18.3	84	calm			0		5		s.	0	0			fair.
U. S. S. Adams, Sitka, Alaska†.	30.03	762.7	49	9.4	85	w			1		10							cloudy.
U. S. S. Essex, N. 16° 46′, W. 147° 06′.	29.93	760.2	74	23.3	95	ne.			4		5					sm'h		fair.
U. S. S. Hartford, Honolulu, Sandwich Ids*.	29.93	760.2	71	21.7	95	calm			0		5			0	0			fair.
U. S. S. Monocacy, Salee river, Corea.	30.00	762.0	69	20.6	85	w.			2		2		w.					misty.
U. S. S. Palos, Hong Kong, China.	29.59	751.6	82	27.8	91	se.			1		10		ne.					cloudy.
U. S. S. Richmond, N. 25° 59′, E. 120° 22′ *.	29.64	752.8	77	25.0	100	ne.			4		10		ne.	0.7	18.	mod.	ne.	cloudy.
S. S. Arabic, N. 46° 12′, W. 146° 45′.			50	10.0	93	calm			0		10			0	0	sm'h		hazy.
S. S. Coptic, N. 22° 18′, E. 115° 09′.	29.66	753.4	79.5	26.4	80	se.			3		9		se.	8 h'r	8 h'r	sm'h		raining.
S. S. Oceanic, N. 37° 34′, E. 146° 15′.	30.19	766.8	61	16.1	77	ne.			4		6		ne.			light	var.	fair.
S. S. Oregon, San Francisco, Cal.†.	29.98	761.5	56	13.3	87	calm			0		2?		nw.					
S. S. Willametta, Seattle, Wash. Ter.†.	30.00	762.0	52	11.1	93	sse.			2		10		sse.	0	0			overcast.
S. S. Ancon, San Francisco, Cal †.	29.96	761.0	57	13.9	87	wsw.			3		10							overcast.
S. S. City of Chester, San Francisco, Cal.†	29.93	760.2	56	13.3	94	sw.			2		10							overcast.
S. S. Queen of the Pacific. N. 45° 35′, W. 124° 15′†.	30.02	762.5	50	10.0		nw.			6		5			0	0	sm'h		fair.
S. S. City of New York, N. 31° 45′, W. 136° 36′ †.	30.16	766.1	64	17.8	73	ne.			1		10		nnw.			sm'h		hazy.
S. S. City of Rio de Janeiro, N. 22° 36′, E. 116° 20′ †.	29.71	754.6	78	25.6	91	e.			1		10		ene.			sm'h		light rain.
S. S. Colima, San Jose, Guatemala†.	29.95	760.7	77	25.0	91	e.			3		6		e.	0	0	small	se.	fair.
S. S. Granada, N. 17° 24′, W. 101° 36′ †.	29.89	759.2	80	26.7	87	nw.			1		2		w.	2 h'r	2 h'r	sm'h	w.	clear.
S. S. San Blas, Panama, Panama.			81	27.2		e.			1		4		nw.	0	0			fair.
S. S. Benledi, Shanghai, China *.	29.82	757.4	69	20.6	90	e.			2–3		5		e.	0	0			fair.
S. S. Radnorshire, Hiogo, Japan *†.	30.02	762.5				se.			3		0			0	0			clear.
S. Sacramento, N. 9° 22′, E. 122° 30′*†.	29.92	760.0	84	28.9	75	sw.			2		5		sw.	0	0	sm'h		fair.
S. St. David, N. 16° 50′, E. 116° 25′*†.	29.72	754.9	86	30.0	84	ssw.			4		4		ssw.	1 h'r	1 h'r	short	ssw.	fair.
Bk. Xenia, Shanghai, China.			72	22.2		ese.			5		8		e.	0	0			cloudy.
H. M. S. Sappho, N. 17° 34′, W. 101° 54′.	29.88	758.9	80	26.7	91	nw.			1		1	ssw.				2	nw.	blue sky.
U. S. S. Ranger, N. 13° 28′, W. 89° 19′.	29.98	761.5	78	25.6	86	nne.			1		10			0.12	3.0	sm'h		raining.
S. Henry Failing, Wilmington, Cal.	29.86	758.4	60	15.6		ene.			1		3		se.	0	0	sm'h	w.	clear.
S. Grecian, Yokohama, Japan †.	30.12	765.0	69	20.6	80	ne.			3		3		nw.	0	0			clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W	.....	.....	55	12.8	87	calm	.....	.....	0	.....	3	sw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Kingfisher, S. 35° 12′, W. 118° 13′	29.75	755.6	64	17.8	.....	ene.	.....	.....	4	.....	10	.....	.....	.....	.....	6	ne.	raining.
H. M. S. Nelson, Souva, Feejee Ids	29.71	754.6	72	22.2	100	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
U. S. S. Iroquois, Valparaiso, Chili	29.84	757.9	58	14.4	88	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lackawanna, S. 21° 36′, W. 88° 45′ *	30.02	762.5	68	20.0	78	w.	.....	.....	2	.....	10	.....	w.	.....	.....	sm'h	sw.	cloudy.
U. S. S. Onward, Callao, Peru†	30.06	763.5	63	17.2	89	n.	.....	.....	1	.....	10	.....	n.	.....	.....	.....	.....	cloudy.
U. S. S. Pensacola, Callao, Peru *	29.91	759.7	63	17.2	89	nnw.	2	0.9	.....	.....	10	.....	.....	0	0	.....	.....	misty.
U. S. S. Wachusetts, Tahiti Id, Society Ids *†	30.06	763.5	76	24.4	91	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear
S. S. Australia, Sydney, N. S. W	30.23	767.8	48	8.9	92	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.91	759.7	80.3	26.8	80	ese.	.....	.....	1	.....	6	.....	.....	.....	.....	sm'h	.....	showery.
S. S. City of Sydney, Sydney, N. S. W*†	30.28	769.1	60	15.6	88	w	.....	.....	2	1 c	0	w.	.....	.....	.....	.....	.....	fair.
S. S. Gordon Castle, S. 32° 47′, E. 152° 25′*	30.27	768.8	61.0	16.1	71	sw.	.....	.....	4-5	.....	6	.....	sw.	.....	.....	.....	.....	fair
Bk. Edmund Phinney, Pisagua, Peru*†	29.95	760.7	58	14.4	.....	e.	.....	.....	2	.....	3	.....	.....	0	0	light	w.	hazy.
S. Parker M. Whitmore, S. 40° 20′, W. 100° 05′ *†	30.37	771.4	48	8.9	.....	sse.	.....	.....	6	.....	4	.....	sse.	4 h'r	4 h'r	long	sse.	squally.
S. Storm King, S. 37° 53′ W. 83° 50′ *†	29.74	755.4	.....	.....	.....	sw.	.....	.....	3	.....	1	.....	w.	rain	rain	r'gh	s.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.03	762.7	80	26.7	91	ese.	.....	.....	2	.....	2	sse.	.....	.....	.....	2	sse.	d. clouds.
U. S. S. Enterprise, Tullaer Bay, Madagascar*	30.16	766.1	76	24.4	56	sw.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Juniata, Colombo, Ceylon, India	29.81	757.2	83	28.3	100	wsw.	.....	.....	1	.....	10	.....	calm	mod.	mod.	sm'h	.....	cloudy.
S. S. Galatia, N. 18° 29′, E. 70° 06′*†	29.61	752.1	85	29.4	.....	wsw.	.....	.....	4	.....	8	.....	wsw.	0	0	r'gh	wsw.	cloudy.
S. S. Malabar, Bassein, India*†	29.68	753.9	.....	.....	.....	sw.	.....	.....	2	.....	0	.....	.....	2 h'r	2 h'r	sm'h	.....	clear.
S. Annie M. Law, S. 35° 43′, E. 20° 25′ *†	30.20	767.1	62	16.7	.....	sse.	.....	.....	1	.....	0	.....	.....	0	0	mod	wsw.	clear.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 14, 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.16	766.1	72.7	22.6	94	n.			1		0			0	0	clear	Malaterre.
Algiers			30.10	764.6	72.0	22.2	64	n.			2		0			0.457	11.6	clear	Thève.
La Galle			30.06	763.4															Fonfrède.
Tunis			30.04	763.0															Jacques.
Saida			30.12	765.0															Pérès.
Tebessa			30.03	762.8	66.6	19.2	64	n.			1		4			0.217	5.5	cloudy	St. Martin.
Geriville					76.1	24.5	31	w.			3		0			0	0	clear	Forfert.
Laghouat			30.01	762.2	75.6	24.2	33	ne.			5		1			0	0	very fair	Abraham.
Biskra			29.95	760.6	86.7	30.4	29	sw.			2		0			0	0	clear	Gonzon.
Australian.																			
Adelaide, South Australia			29.84	757.9	55.3	12.9	91	ne.	12	5.4			10 n			0.233	5.9	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.85	758.2	29.94	760.5	56.9	13.8	70	n.	20	8.9			10					showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.64	752.9	30.18	766.5	72.0	22.2	61	se.			2		5			0.094	2.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.41	746.9	30.16	766.1	66.9	19.4	58	wnw.	6.3	2.8			7			0.071	1.8		Dr. Wierzbiski
Eperies	29.24	742.8	30.10	764.4	69.8	21.0	62	nw.			1	c	9 ks		se.	0	0		Julius Mikolik.
Gratz	28.97	735.7	30.14	765.5	71.8	22.1	73	se.			2		5			0.031	0.8		Andreas Rospini.
Hermannstadt	28.68	728.5	30.03	762.8	80.2	26.8	40	nw.			4		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.84	732.5	30.15	765.7	67.5	19.7	76	ene.			2		5			c	0	dense fog	The Staff.
Lemberg	29.11	739.3	30.07	763.8	66.0	18.9	65	w.			5		10			inap.	inap.		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.97	761.2	30.11	764.9	79.7	26.5	65	ne.			2		5			0	0	lightning	I. R. Hydrographic Office.
Szathmar	29.60	751.7	30.04	763.0	78.1	25.6	44	nw.			4		2			0	0		Joseph Midlinszky, S. J.
Szegedin	29.83	757.6	30.13	765.4	75.2	24.0	56	w.			2		6			0	0		Karl Stancel.
Trieste	30.01	762.2	30.11	764.7	78.4	25.8	40	ne.			3		7			0	0		Royal Academy.
Vienna	29.49	749.1	30.19	766.9	68.5	20.3	58	ne.			1		6			0.043	1.1	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.03	762.7	30.13	765.3	56.5	13.6	78	sse.	14	6.3			6			0.010	0.3	d. clouds	W. Boswell.
Armagh, Observatory	30.06	763.5	30.29	769.4	60.4	15.8	71	wsw.	8	3.6			9					overcast	S. Call.
Bidston, Liverpool Obs'y			30.30	769.6	60.5	15.8	69	wnw.	13	5.8			7					d. clouds	John Hartnup.
Bolton, Sharples	29.74	755.4	30.28	769.1	61.6	16.4	66	wsw.	6	2.7			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.85	758.2	30.25	768.3	64.6	18.1	52	nw.	3	1.3			6			0.12	3.0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	83.0	28.3	75	ne.			3		3					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	30.14	765.5	30.25	768.3	72.5	22.5	48	n.			0.4		4					d. clouds	John McLaren.
Chatham, School M. E.	30.11	764.8	30.24	768.1	68.3	20.2	72	w.			1		6					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	30.12	765.0	30.34	770.6	65.0	18.3	58	nnw.			3		3					blue sky	The Staff.
Fort Napier, Natal	27.67	702.8	29.89	759.2	62.0	16.7	94	e.			1		8					overcast	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.66	753.4	29.88	758.9	79.0	26.1	95	s.			1		6					showery	J. W. Smith.
Galway, Queen's College	30.28	769.1	30.31	769.9	59	15.0	82	sw.			3		4			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	68.4	20.2	89	e.			2		4					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.01	762.2	30.22	767.6	55.1	12.8	86	sw.			3		10					raining	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	30.08	764.0	30.24	768.1	72.6	22.6	64	nnw.			1		6					d. clouds	The Staff.
Guernsey	30.01	762.2	30.31	769.9	62.0	16.7	77	nw.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.21	767.3	30.25	768.3	68.9	20.5	55	nw.	7	3.1			5					d. clouds	The Staff.
Leicester, Museum	29.97	761.2	30.22	767.6	69.5	20.8	55	w.			1		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.01	762.2	74.0	23.3	94	e.					2					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.03	762.7	30.08	764.0	81.5	27.5	82	se.			1		8			blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.76	755.9	30.27	768.8	66.7	19.3	53	nw.			1		8					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.04	763.0	30.27	768.8	69.0	20.6	52	nnw.			2		5					d. clouds	The Staff.
Plymouth	30.23	767.8	30.30	769.6	71.6	22.1	53	nnw.			1		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.97	761.2	30.07	763.8	51.2	10.7	72						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.91	759.7	29.98	761.5	89.0	31.7	44	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.95	760.7	30.23	767.8	72.0	22.2	67	w.			2		2			0.07	1.8	d. clouds	W. F. Cooper.
Silloth Rectory	30.22	767.6	30.25	768.3	63.9	17.7	68	w.			2		5			0.245	6.2	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.29	769.4	63.0	17.2	67	w.	13	5.8			10					overcast	W. C. Carlisle.
Truro, Royal Institution	30.28	769.1	30.38	771.6	70	21.1	61	nw.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.37	771.4	30.40	772.1	58.7	14.8	82	w.	15	6.7			7					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.63	752.6	30.03	762.7	79.5	26.4	62	e.	14.9	6.7						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.62	752.3	29.66	753.4	60	15.6	87	w.	12	5.4			10 s		w.	0.020	0.5	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.66	753.4	29.72	754.9	59	15.0	65	nw.	14	6.3		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.91	759.7	30.11	764.8	50.5	10.3	78	nw.			1		0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.69	754.1	29.74	755.4	49.5	9.7		w.			4		10 k			0.090	2.3	gloomy	H. A. Johnson.
Father Point, Quebec*	29.78	756.4	29.81	757.2	46	7.8	93	nw.	25	11.2		2 cs	5 ks		calm	0.03	0.8	fair	J. McWilliams.
Fort Garry, Manitoba*	28.90	734.0	29.71	754.6	54	12.2	93	e.	6	2.7		2 c	0		w.	0.09	2.3	fair	James Stewart.
Fredericton, N. B.	29.74	755.4	29.80	756.9	57.8	14.3	54	nw.	20	8.9		0	0			inap.	inap.	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	29.10	739.1	30.22	767.6	44.0	6.7	100	calm	0	0		0	0		sw.	0	0	clear	Jas. Grant.
Halifax, N. S*	29.60	751.8	29.73	755.1	56	13.3	93	w.	4	1.8			10 n			0.210	5.3	cloudy	A. Allison.
Hamilton, Ontario	29.74	755.4	30.13	765.3	55.7	13.2	88	sw.			1	3 c	0		sw.	0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.83	757.7	30.16	766.1	52	11.1	72	w.	3	1.3		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.								sw.			3		10 n			0	0	overcast	C. H. Rigby.
London, Ontario	29.31	744.5	30.22	767.6	47.7	8.7	92	calm				0	0			0	0	blue sky	E. B. Reed.
Montreal, Quebec*	29.89	759.2	30.10	764.5	54	12.2	72	w.	8	3.6		0	0			0.30	7.6	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.88	758.9	30.12	765.0	51.2	10.7	79	sw.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.45	748.0	30.15	765.8	50	10.0	72	sw.	1	0.4		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.42	747.3	30.16	766.1	54.7	12.6	84	sw.			1	0	0			0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.49	749.0	30.19	766.8	48	8.9	93	calm	0	0		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.54	750.3	30.20	767.1	48	8.9	83	w.	4	1.8		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.65	753.1	30.00	762.0	49	9.4	80	sw.	12	5.4		0	0			0.08	2.0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.65	753.1	30.11	764.8	42	5.6	86	ne.	2	0.9		8 k	0		w.	inap.	inap.	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.73	755.1	29.78	756.4	57	13.9	75	nw.	15	6.7		2 k	3 ks			0.36	9.1	clear	
St. John, N. B	29.62	752.3	29.78	756.4	59.0	15.0	82	n.	11	4.9		8 k	0			0	0	d. clouds	G. Murdock, C. E.
Saint John's, N. F.	29.61	752.1	29.86	758.4	58	14.4	82	ne.			2	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F.			29.72	754.9	55.4	13.0		sw.			4					1.56	39.6		The Commandant.
Saugeen, Ontario*	29.44	747.8	30.18	766.6	39?	3.9?	89	n.	7	3.1		0	0			0	0	clear	
Stratford, Ontario	28.94	735.1	30.29	769.4	47.0	8.3	82	calm	0	0		0	0			0	0	blue sky	C. J. Macgregor, M. A.
Sydney, C. B*	29.59	751.6	29.65	753.1	58	14.4	90	sw	15	6.7			10 n		sw.	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.82	757.4	30.21	767.3	53	11.7	69	nw.	7	3.1		0	0			0	0	clear	Magnetic Observatory.
Windsor, N. S	29.62	752.3	29.71	754.6	60.0	15.6	97	nw.	3	1.3		0	9 ks			0	0	d. clouds	Prof. W. R. Butler, M.A.
Woodstock, Ontario	29.13	739.9	30.19	766.8	52.1	11.2	88	w.	3	1.3		0	0			0	0	hazy	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.75	755.6	29.81	757.2	53	11.7	100	nw.	3	1.3		8 k	2 s		n.	nw.	0.27	6.9	cloudy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	30.22	767.6	30.25	768.3	58.0	14.4	71	w.	13.2	5.9		0	2 k			0.970	24.6	clear	John Duthie
Springbok Fontein	28.05	712.5			50	10.0	45	e.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.83	757.7	29.94	760.5	79.2	26.2	39	calm			0		0			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.92	760.0	29.95	760.6	67.1	19.6	89	ene.	5.6	2.5		0	3 k		e.	0	0		M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.05	763.2	30.12	765.0	64.4	18.0	41	wnw.	22	10			1						Oversergent Fischer.
Fanoe	30.18	766.6	30.20	767.1	58.3	14.7	78	w.			4		7						Overloerer Lauridsen.
Godthaab, Greenland	29.62	752.4	29.67	753.5	43.2	6.2	91	s.			4–6		10					raining	S. Kleinschmidt.
Jacobshavn, Greenland	29.64	752.9	29.69	754.1	54.5	12.5		se.			7		5						
Stykkisholm, Iceland	30.24	768.1	30.28	769.2	43.9	6.6	81	ne.			2		5						A. O. Thorlacius.
Thorshavn	29.91	759.6	29.93	760.2	52.2	11.2	81	calm	0	0			3						Overloerer Bergh.
Vestervig	30.06	763.4	30.15	765.7	55.9	13.3	65	wsw.			6		7						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.69	754.0			94.5	34.7		ne.	4.9	2.2		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.60	751.7	30.23	767.9	72.7	22.6	64	nnw.			1		k			0	0		M. Labroue, Director.
Alençon, Normal School	29.78	756.5	30.34	770.5	69.4	20.8	48	nw.			1			se.		0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	30.03	762.7	30.11	764.7	70.9	21.6	68	nne.			1		10			0.39	10.	covered	M. Giraud, Director.
Bar-sur-Seine	29.65	753.0	30.19	766.8	70.2	21.2	50	ene.			1	0	8 kn		ne.	0	0	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	30.00	761.9	30.26	768.5	70.5	21.4	54	n.			1		8		n.	0	0	very cloudy.	M. Frère Eugène Marié.
Besançon, Normal School	29.34	745.1	30.11	764.8	71.6	22	78	ne.			1	0	0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.96	761.0	30.22	767.5	71.4	21.9	49	ne.			1		5		ne.	0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.65	753.2	30.19	766.8	72.5	22.5	50	n.			4		k		n.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.11	764.8	30.35	771.0	66.2	19.0	72	n.			2		2		n.	0	0		M. de Kermarés, Dir.
Caen, Normal School	30.20	767.0	30.28	769.0	74.1	23.4	58	w.			2		2		w.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.89	759.3	30.21	767.4	70.3	21.3	74	n.			2		8	e.	ne.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.72	754.9	30.22	767.5	73.4	23.0	53	ne.			1		5			0	0	½ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.82	732.0	30.14	765.6	68.7	20.4	53	n.			2		8		ne.	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.29	743.9	30.11	764.8	69.8	21	57	e.			2		6		ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.37	746.0	30.21	767.4	66.9	19.4	54	n.			2		kn	n.	n.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.56	700.1	30.05	763.2	64.4	18	90	calm			0		7 n		s.	0.256	6.5		M. Jeangirard, Director.
Gréasque, du Rhone	28.98	736.0	30.09	764.2	64.4	18.0	74	n.			1		9		s.	0.047	1.2	stormy	M. Kina, Director.
Grenoble. Normal School	29.35	745.6	30.11	764.8	66.9	19.4	70	nw.			1	ck	0	nw.		0.020	0.5		M. Ablard, Director.
Guéret, Normal School	28.61	726.7	30.18	766.5	67.1	19.5	63	ne.			1	0	5 kn		sw.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	30.19	766.9	30.46	773.7	68.0	20	89	nw.					k		nw.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.63	752.5	30.18	766.6	68.7	20.4	64	wnw.			1	0	5 k			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.20	767.1	30.30	769.7	74.1	23.4	64	w.			1		2	e.		0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.10	739.1	30.13	765.4	68.2	20.1	61	nne.			1		10 kn		nne.	0	0	covered	M. André, Director.
Mans, Normal School	29.97	761.2	30.27	768.9	70.2	21.2	63	nne.			3		5		n.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.82	757.4	30.08	764.1	72.0	22.2	49	wgw.			1		9		ene.	0.126	3.2	raining	M. Stephan, Director.
Montlouis	24.97	634.2	29.81	757.2	48.7	9.3	63	w.	9.4	4.2			8	se.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.96	761.0	30.08	764.1	73.4	23	77	se.			2		5		e.	0.220	5.6	cloudy	M. Galzin, Director.
Nancy, Normal School	29.43	747.4	30.19	766.8	69.4	20.8	63	n.			2		ckn			0	0		M. Hasse, Director.
Nantes, Observatory	30.14	765.6	30.30	769.6	74.7	23.7	55	ese.			0–1	0	6 k; kn		ne.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.03	762.7	30.14	765.5	71.2	21.8	45	nw.	15.0	6.7			10		n.	0.043	1.1		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.0			32.4	0.2		ne.			1		fg		ne.	0.039	1.0	dense fog	M. Vaussenat, Director.
Privas, Normal School	29.05	737.9	30.05	763.3	68.9	20.5	54	n.			1	0	5 n		n.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.34	643.6			46.6	8.1	91	ne.			3		8		ne.	0.004	0.1	¾ covered	M. Alluard.
Rochefort, Naval Obs'y	30.21	767.4	30.24	768.2	76.3	24.6	51	nne.			1		5		nne.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.02	762.6	30.23	767.9	74.8	23.8	49	nnw.			1		5		sw.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.08	713.1	30.20	767.1	60.6	15.9		nw.			2	5 ck	0	se.		0	0	fair	M. Seger, Director.
Rouen, Normal School	30.16	766.0	30.21	767.2	74.1	23.4	53	n.			1		5	n.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	30.10	764.4	30.26	768.5	71.1	21.7	57	n.			1		5		ne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.50	749.4	30.23	767.9	69.4	20.8	68	nw.			2		8	nw.		0	0	very cloudy	M. Baillaud, Director.
Tours	30.07	763.8	30.25	768.3	71.6	22.0	50	nnw.			1		8	ne.	nne.	0	0	almost cov'd	M. de Tastes.
Versailles, Observatory	29.76	755.9	30.25	768.4	71.6	22.0	51	n.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.10	764.6	30.25	768.4	69.8	21.0	72	nw.	15.7	7.0		0	7 k		w.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.78	731.0	30.19	766.9	68.7	20.4	50	ne.			2		3	ne.		0	0		Prof. Jnedt.
Bamberg	29.35	745.6	30.21	767.2	72.0	22.2	50	ne.			3	0	4 k		n.	0	0		Prof. Dr. Hoh.
Berlin	30.09	764.2	30.23	767.8	68.0	20.0	53	nw.			2		8			0	0		Dr. Sensch.
Breslau	29.71	754.6	30.24	768.2	65.3	18.5	45	n.			3		9			0	0		Royal University Obs'y.
Carlsruhe	29.74	755.4	30.19	766.8	72.1	22.3	39	ne.			1		9	se.		0	0		Albert Senz.
Cassel	29.51	749.6	30.22	767.7	68.9	20.5	56	nw.			2		8	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.20	767.1	72.7	22.6	50	ne.			1		6			0	0		Physical Society.
Friedrichshafen	28.75	730.3	30.17	766.3	65.8	18.8	67	ne.			5		6	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.18	766.5	30.27	768.6	63.3	17.4	72	nnw.			4		2	sw.		0	0		E. Preller.
Kiel	30.20	767.1	30.22	767.5	63.1	17.3	60	w.			2		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.84	757.8	30.25	768.3	68.5	20.3	54	nw.			2		10	nw.		0	0		H. Leppig, Asst.
Magdeburg	30.05	763.2	30.23	767.9	67.1	19.5	52	wnw.			2		7	wnw.		0	0		Weather Observatory
Memel	30.06	763.6	30.11	764.8	65.8	18.8	65	wsw.			4	0	9 ks						Isaermann.
Munich	28.37	720.6	30.24	768.2	65.3	18.5	58	e.			2		5	e.		0.122	3.1		Central Station.
Neufahrwasser	30.12	765.0	30.13	765.4	67.6	19.8	51	nw.			2		8			0	0		A. Lothes.
Neustadt, Palatinate	29.65	753.2	30.18	766.6	74.8	23.8	51	nne.			1		5	e.		0	0		Dicknether.
Stuttgart	29.22	742.2	30.09	764.2	69.8	21.0	51	n.			1		7	e.		0	0		Prof. Dr. Schoder.
Wustrow	30.22	767.6	30.25	768.3	58.6	14.8	69	wnw.			4	0	5 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.64	752.9	30.01	762.2	87.3	30.7		ne.			2.0		1 k						Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.37	745.9	29.42	747.2	91.0	32.8	70	ssw.	26.0	11.6			7		ssw.	0	0	d. clouds	
Deesa	28.94	735.0	29.39	746.5	99.5	37.5	36	sw.	22.0	9.8			3	sw.		0	0	d. clouds	
Bombay	29.56	750.9	29.60	751.9	84.7	29.3	80	wsw.	14.0	6.3			10		w.	0.21	5.1	overcast	
Poona, Yarrowda	27.78	705.6	29.62	752.4	78.1	25.6	74	wsw.	25.0	11.2			10		sw.	0	0	overcast	
Trichinopoly	29.42	747.2	29.69	754.2	95.5	35.4	47	wsw.	2.0	0.9			10	ne.	ne	0	0	overcast	
Belgaum	27.17	690.0	29.71	754.6	71.6	22.0	89	wsw.	11.0	4.9			10	s.	w.	0.54	13.7	d clouds	
Lahore	28.58	726.0	29.27	743.5	107.3	41.8	23	calm	0	0			0			0	0	blue sky	
Roorkee	28.47	723.2	29.34	745.1	92.8	33.8	41	e.	4.0	1.8			0?					th'nd'rst'm?	
Agra	28.81	731.8	29.34	745.4	102.6	39.2	34	ne.	6.0	2.7			7		n.	0	c	d. clouds	
Nagpur	28.44	722.4	29.47	748.4	83.5	28.6	68	sw.	20.0	8.9			10		nw.	0.07	1.8	overcast	
Jubbulpore	28.16	715.1	29.50	749.4	76.8	24.9	91	sw.	6.0	2.7			10		sw.	1.17	29.7	overcast	
Lucknow	29.06	738.2	29.42	747.4	93.0	33.9	50	ene.	5.0	2.2			4	ese.		0	0	d. clouds	
Allahabad	29.13	739.9	29.44	747.7	80.1	26.7	90	ne.	4.0	1.8			10			0.13	3.3	overcast	
Patna	29.23	742.4	29.41	747.0	94.5	34.7	45	e.	5.9	2.6			10	e.	e.	0.06	1.5	overcast	
Hazaribagh	27.45	697.1	29.41	747.1	82.3	27.9	70	ene.	5.5	2.5			10			0.99	25.2	thund'rst'm	
Cuttack	29.38	746.1	29.46	748.2	81.0	27.2	82	nw.	5.0	2.2			10		wnw.	1.10	27.9	d. clouds	
Calcutta, Alipore	29.38	746.3	29.40	746.8	79.3	26.3	93	ssw.	4.0	1.8			10			0.74	18.8	drizzling	
Dhubri	29.35	745.6	29.47	748.5	86.3	30.2	76	e.	8.3	3.7			8		ese.	0	0	d. clouds	
Chittagong	29.48	748.9	29.57	751.2	77.1	25.1	92	se.	9.3	4.2			10			0.06	1.5	overcast	
Sibsagar	29.20	741.7	29.53	750.0	86.9	30.5	77	se.	2.0	0.9			10	w.	w.	0.02	0.5	d. clouds	
Jeypore	28.00	711.3	29.39	746.5	92.7	33.7	50	wnw.	6.0	2.7			8		wnw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Zanzibar	29.99	761.8	30.02	762.4	84.2	29.0	62	se.	8.0	3.6			6	ne.	wsw.	0	0	d. clouds	
Bellary	28.18	715.8			85.8	29.9	51	w.	20	8.9		5 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.76	756.0	30.16	766.1	71.8	22.1	62	e.	4.3	1.9			10			0	0		Prof. Giovanni Clodig.
Milan	29.63	752.5	30.13	765.4	68.0	20.0	78	ne.	4.9	2.2			10	ese.		0.146	3.7		Prof. G. V. Schiapparelli.
Padua	30.00	762.1	30.11	764.8	69.8	21.0	78	nne.	9.4	4.2			10	sw.		0.055	1.4		Prof. Dott. Lorenzoni.
Moncalieri	29.26	743.1	30.14	765.6	79.0	26.1	90	nw.	1.3	0.6			10			1.071	27.2		Prof. F. F. Denza.
Genoa	29.89	759.2	30.08	764.0	68.9	20.5	74	n.	2.5	1.1			10	s.		0.197	5.0		Prof. G. M. Garibaldi.
Mondovi	28.25	717.5	30.13	765.4	54.9	12.7	94	wnw.			2		10			0.445	11.3		Prof. D. C. Bruno.
Pesaro	29.89	759.2	29.94	760.4	70.2	21.2	80	ne.	9.4	4.2			10			0	0		Prof. Luigi Guidi.
Florence	29.85	758.1	30.10	764.5	80.2	26.8	55	sw.			2		10			0.039	1.0		Prof. Costantino Pittei.
Leghorn	29.93	760.3	30.02	762.4	71.4	21.9	72	nw.	3.1	1.4			10			0.008	0.2		Prof. P. Monte.
Rome	29.85	758.1	30.02	762.4	83.1	28.4	45	wsw.	9.4	4.2			10			0.004	0.1		Prof. P. Tacchini.
Lecce	29.80	756.8	30.04	762.9	83.8	28.8	37	ne.	9.4	4.2			0			0	0		Prof. C. de Giorgi.
Cosenza	29.16	740.6	30.00	762.1	88.7	30.4	68	sw.	1.3	0.6			0			0	0		Prof. D. Conti.
Cagliari	29.84	758.0	30.03	762.8	61.0	16.1	89	nw.			2		8	sw.		0.079	2.0		Prof. A. Pacinotti.
Palermo	29.75	755.6	29.99	761.8	77.7	25.4	56	ne.	3.1	1.4			0			0	0		Prof. G. Caccatore.
Syracuse	29.98	761.5	30.02	762.6	76.3	24.6	60	nne.	6.9	3.1			0			0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.52	749.7	30.01	762.3	85.3	29.6	32	sw.	3.1	1.4			4	sw.		0	0		Prof. F. Brioschi.
Stelvio	22.32	567.0			44.1	6.7	69	se.			2		10			0.165	4.2	covered	Prof. P. F. Denza.
Valdobbia	22.35	567.7			36.9	2.7	72	e.			6		10			0.276	7.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.09	764.2	30.12	765.1	57.0	13.9	93	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	30.04	763.0	30.07	763.8	56.5	13.6	85	sw.	3.0	1.3		0	0			0	0	clear	K. Ogawa.
Hamamatsu	30.14	765.5	30.17	766.2	68.4	20.2	81	s.			2	5ck;ks	0	se.		0	0	fair	Y. Sekigawa.
Kanazawa	30.01	762.1	30.11	764.7	64.9	18.3	80	e.	7.1	3.1		0	0			0	0	clear	S. Endo.
Kagoshima	30.02	762.6	30.04	762.9	70.9	21.6	65	e.			7	0	1 ks		e.	0	0	clear	G. Miyanohara.
Kioto	29.94	760.4	30.11	764.8	70.3	21.3	71	se.	5.3	2.3		0	0			0	0	clear	M. Tojima.
Kochi	30.11	764.8	30.13	765.3	70.9	21.6	83	n.	4.3	1.9		2ck;c	0	e.		0	0	clear	K. Kusunose.
Miasaka	30.08	763.9	30.10	764.6	70.1	21.2	69	e.			2	9 cs	0	w.		0	0	fair	K. Masusaki.
Miyako	29.95	760.7	30.06	763.5	51.4	10.8	97	calm	0	0		0	0			0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.83	757.7	30.03	762.7	73.0	22.8	49	se.	7.5	3.3		0	0			0	0	clear	S. Takehayashi.
Niigata	30.08	764.0	30.12	765.0	59.5	15.3	93	ne.	0.8	0.4		0	0			0	0		M. Morita.
Nobiru	30.06	763.5	30.08	763.9	62.7	17.1	90	s.	4.7	2.1		0	0			0	0	clear	H. Midzushina.
Numazu	30.13	765.3	30.17	766.2	67.4	19.7	82	wnw.			1	2 ck	5 s			0	0	hazy	R. Kaneda.
Osaka	30.10	764.5	30.11	764.9	69.9	21.1	77	nw.	7.3	3.2		0	0			0	0	clear	H. Omura.
Sakai	30.08	764.1	30.09	764.3	67.4	19.7	76	ne.			2	0	0			0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	30.07	763.8	30.15	765.7	64.0	17.8	83	ssw.	8.2	3.7		0	0			0	0	clear	The Staff.
Wakayama	30.06	763.4	30.11	764.7	71.1	21.7	65	s.	5.8	2.6		4 ck	0	ese.		0	0	fair	K. Sakai.
Shimonoseki	29.93	760.1	30.07	763.8	70.2	21.2	72	calm			0	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.95	760.7	30.14	765.5	73.7	23.2	55	ese.	16.0	7.2		0	2ks;k		se.	0	0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.73	602.7	29.95	760.7	63.7	17.6	76	e.	4.7	2.2		2 ck	7 k	e.	e.	0	0	cloudy	Prof. Vicente Fernandez.
Leon	24.36	618.7	29.95	760.7	65.3	18.5	82	calm	0	0		7 c	3 ku	se.		0	0	covered	Prof. M. Leal.
Mazatlan	29.71	754.6	29.97	761.1	75.5	24.2	90	e.	1.6	0.8		0	7 n		e.	0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					74	23.3	82	se.	9.8	4.4			9 n		se.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.29	769.3	30.29	769.3	67.6	19.8		ssw.			3					0	0		
Groningen	30.19	766.8	30.24	768.2	63.5	17.5		nw.			1					0	0		
Helder	30.26	768.6	30.26	768.6	59.4	15.2		w.			1					0.039	1.0		
Hellevoetsluis	30.28	769.1	30.28	769.1	71.1	21.7	62	calm			0					0	0		
Utrecht	30.23	767.9	30.28	769.1	68.4	20.2	58	nne.			2		2			0	0	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.82	757.5			81.1	27.3	82	ne.	0	0			2			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	30.01	762.1	30.07	763.7	52.9	11.6	57	ssw.	20	9			10			0	0		
Brono	29.93	760.3	29.97	761.3	51.4	10.8	62	sw.			4		3			0.177	4.5		
Christiania	29.78	756.5	29.93	760.1	66.2	19.0	32	s.	9	4			3			0	0		
Gjæsvær	29.78	756.3	29.80	756.9	47.7	8.7		wsw.			7		10						
Lodingen	29.85	758.1	29.89	759.3	49.8	9.9	74	ssw.	13	6			5			e.031	0.8		
PORTUGUESE.																			
Angra, Azores	29.86	758.4	30.02	762.4	64.4	18.0	98	s.	1.8	0.8			9			0.118	3.0		Dr. J. A. Sampaio.
Campo Major	29.14	740.2	30.10	764.6	79.7	26.5	35	nne.	2.5	1.1			3			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.09	764.3	30.18	766.5	67.1	19.6	73	s.	3.8	1.7			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.81	757.2	30.13	765.4	76.8	24.9	36	ene.	8.1	3.6			4			0	0		The Staff.
Ponta Delgada, Azores	29.97	761.3	30.04	763.1	71.6	22.0	79	calm	1.3	0.6			4			0.252	6.4		
Saint Paul de Loando	29.83	757.7	30.03	762.8	73.4	23.0	91	wnw.			1		10			0	0		
San Salvador	28.16	715.2	30.00	762.1	74.7	23.7	55	wsw.			2		10			0	0		
Serra da Estrella	25.49	647.4	30.18	766.5	55.9	13.3	50	ese.	11.2	5.0			0			0	0		
RUSSIAN.																			
Akmolinski	28.84	732.5	29.89	759.3	61.0	16.1	31	ne.	18	8		0	0			inap.	inap.		Major K. Lasarew.
Archangel	29.77	756.2	29.79	756.7	66.6	19.2	68	nw.	18	8		0	4 ks			0	0		Capt. Sseliwerstow
Ashurada	29.92	760.0	29.83	757.6	82.0	27.8	75	w.	11	5		0	1 k			0	0		
Astrakhan	29.89	759.3	29.81	757.2	91.8	33.2	30	sw.	16	7		0	7 ks			0	0		Capt. Wieganow.
Baku	29.93	760.3	29.89	759.1	82.4	28.0	36	nne.	18	8		0	5 ks			0	0		
Barnaul	29.34	745.3	29.84	757.8	55.8	13.2	39	n.	9	4			9			0	0		Meteorological Obs'y
Bielosersk	29.45	747.9	29.89	759.3	63.7	17.6	96	sw.	0	0			10ks;n			0.406	10.3	light rain	
Dorpat	29.76	756.0	30.00	762.0	71.6	22.0	51	wsw.	4	2		0	6 k			0.059	1.5		Observatory.
Ekaterinburg	29.15	740.3	30.09	764.3	64.0	17.8	62	se.	4	2			10			inap.	inap.	hazy	Meteorological Obs'y
Elissawetgrad	29.52	749.9	29.95	760.7	80.6	27.0	54	w.	7	3			9 ks;n			inap.	inap.		
Irkutsk	28.00	711.3	29.57	751.1	64.9	18.3	53	sse.			1		10			0.205	5.2		
Kasalinsk	29.37	746.1	29.55	750.6	89.6	32.0	26	nne.	2	1		4 c	0						
Kasan	29.66	753.3	29.91	759.7	80.4	26.9	42	ssw.	4	2			10 kn			0.272	6.9	thnd'r str'm	Observatory.
Kem	29.77	756.1	29.82	757.4	61.7	16.5	69	nw.	18	8		0	7 ks			0	0		
Kertch	29.93	760.3	29.96	760.9	82.6	28.1	47	calm	0	0		3 c	0			0	0		Lagorio & Sastyrea.
Kieff	29.26	743.3	29.87	758.6	78.1	25.6	54	w.	7	3		0	4 ks			0	0		Observatory.
Koslov	29.35	745.5	29.86	758.5	79.0	26.1	93	ene.	13	6		0	3 ks			0	0		
Libau	30.03	762.8	30.06	763.4	61.5	16.4	75	sw.	7	3			0			0	0		E. Quaas.
Lugan	29.63	752.5	29.80	756.9	82.6	28.2	31	nw.	13	6			6			0	0		Meteorological Obs'y.
Moscow	29.39	746.4	29.82	757.5	83.3	28.5	35	sw.	5.6	2.5		0	6 ks			0	0		Meteorological Obs'y
Nikolaiev	29.89	759.2	29.97	761.1	85.5	29.7	60	calm	0	0		0	3 k			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.39	746.5	29.48	748.7	55.6	13.1	87	se.	16	7			10			0	0		Iwanow.
Pekin, China	29.71	754.5	29.85	758.1	83.1	28.4	38	s.	2.2	1.0		3 c	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.52	749.8	29.85	758.1	92.1	33.4	16	nw.	2.2	1.0			0			0	0		
Petrozavodsk	29.66	753.4	29.85	758.2	68.2	20.1	63	n.	9	4			5 ks			0.004	0.1		Dr. Bergmann.
Pinsk	29.49	749.1	29.98	761.5	64.8	18.2	85	nw.	11	5			10 n			0.744	18.9	raining	
Poti	29.92	759.9	29.95	760.7	75.4	24.1	81	w.	4	2		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
St. Petersburg	29.94	760.4	29.96	761.0	66.2	19.0	45	wnw.	13	6		0	1 ks			inap.	inap.		Central Physical Obs'y.
Samarkand	27.43	696.7	29.73	755.2	85.6	29.8	23	calm	0	0		0	0			0	0		
Semipalatinsk	29.23	742.4	29.88	758.9	56.3	13.5	35	nw.	9	4			9			0	0		Major Lasarew
Sevastopol	29.77	756.2	29.99	761.7	80.4	26.9	55	wnw.	16	7		2 ck	0			0	0		
Staroi Bykhov	29.47	748.6	29.91	759.8	70.9	21.6	65	ne.	2	1		0	8 n			0.102	2.6	thud'r st'rm	
Tashkend	28.15	714.9	29.69	754.0	88.9	31.6	27	calm	0	0		0	1 s			0	0		Terch, A. M.
Tiflis	28.52	724.3	29.85	758.2	83.8	28.8	30	se.	2	1			9 ks			0	0		Physical Observatory.
Vernoe	27.33	694.2	29.77	756.1	70.5	21.4	58	calm	0	0		0	8 n			0	0		
Viatka	29.29	744.0	29.89	759.1	83.5	28.6	43	calm	0	0			3			0.283	7.2		
Warsaw	29.72	754.8	30.13	765.4	64.8	18.2	55	nw.	9	4.0		0	7 k			0	0	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.67	753.5	29.95	760.8	43.5	6.4	59	nw.	7	3			8			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt.			30.13	765.3	55	12.8	93	w.			6	5	3	w.		0	0	light clouds	J. Youngclauss.
North Unst			30.01	762.2				w.			6	4	2	nw.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.05	763.2	30.15	765.9	68.9	20.5	75	sw.	1.6	0.7		0	6			0.075	1.9		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.22	767.5	30.28	769.0	73.8	23.2	60	nw.	1.8	0.8		2	2	ne.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.32	693.8	30.24	768.1	62.4	16.9	58	ne.	4.3	1.9		0	4			0	0		Domingo Martin.
Madrid, Royal Obs'y	27.96	710.2	30.12	765.0	73.4	23.0	39	ne.	11.6	5.2		0	1			0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.98	761.5	30.11	764.8	79.2	26.2	55	se.	1.8	0.8		2	3	w.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.50	749.3	30.26	768.6	62.6	17.0	82	s.	14.5	6.5		0	0			0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.28	743.7	30.15	765.8	73.8	23.2	49	ne.	3.8	1.7			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.97	761.3	30.04	763.0	80.6	27.0	81	ene.	2.2	1.0		4c;ck	1 k	n.	calm	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	756.9	29.85	758.3	81.0	27.2	86	sw.	15.4	6.9		2 cs	3 k		ne.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.03	762.7	30.13	765.2	76.5	24.7	36	e.	22.5	10.1		0	2		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	29.95	760.8	30.04	763.1	81.3	27.4	95	se.	6.3	2.8		2 cs	4 k	se.	se.	0	0		Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.81	757.2	29.85	758.2	62.6	16.8	64	sw.			4		2			0.283	7.2		
Umea	29.93	760.2	29.98	761.5	64.8	18.2	38	nw.			4		2			0.051	1.3		
Hernosand	29.95	760.7	30.00	762.0	61.5	16.4	54	ssw.			4		3			0	0		
Stockholm	29.83	757.6	30.00	762.1	67.1	19.5	64	s.			2		7			0.102	2.6		
Wisby	29.92	759.9	29.98	761.4	60.8	16.0	75	w.			4		0			0	0		
Sub-series.																			
Upsala	29.88	759.0	29.97	761.2	68.0	20.0	66	nne.	8.7	3.9			6		wsw.	0.154	3.9		S. G. Fineman.
SWISS.																			
Geneva	28.73	729.8	30.13	765.3	64.9	18.3	64	nne.			4		9			0	0	covered	The Observatory.
TURKISH.																			
Constantinople			30.03	762.7	81.7	27.6	49	ne.	14	6.5			1		ne.	0	0		The Observatory.
Valona			30.19	766.8	86.4	30.2		sw.			1		0			0	0	clear.	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.83	757.7	83.3	28.5	61	sw.			2		1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.05	763.3	30.13	765.3	60.5	15.8	48	n.	10	4.5		0	0			0.25	6.3	clear	J. O. Barnes.
Alpena, Michigan	29.44	747.8	30.10	764.5	56	13.3	45	sw.	2	0.9		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.03	635.8	29.78	756.4	43	6.1	58	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.03	686.5	29.82	757.4	50	10.0	74	w.	8	3.6		0	9 ks		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.89	733.8	30.04	763.0	74.5	23.6	84	nw.	2	0.9		4 ck	0			0.35	8.9	fair	Edward A. Beals.
Atlantic City, New Jersey	30.00	762.0	30.01	762.2	61	16.1	72	n.	16	7.2		3 c	0			0.81	20.6	clear	Jas. M. Watson.
Augusta, Georgia	29.83	757.7	30.02	762.5	77.5	25.3	86	sw.	1	0.4		3 ck	0	w.		0.02	0.5	clear	John Healy.
Baltimore, Maryland	30.00	763.5	30.11	764.8	66	18.9	54	n.	8	3.6		0	0			0.41	10.4	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.99	761.7	30.01	762.2	62.0	16.7	72	n.	19	8.5		1 ck	0			1.82	46.2	clear	G. A. Hill.
Behring Id., Behring Sea	29.00	753.4	29.08	753.9	38.0	3.3	94	sw.	20	8.9			fg.			0.02	0.5	dense fog	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.21	716.5	29.75	755.6	59.0	15.0	72	se.	5	2.2		3 c	3 s	se.	se.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.08	687.8	29.85	758.2	52	11.1	80	calm	0	0			10 s			0	0	cloudy	S. Wheaton.
Billings, Montana	26.51	673.3	29.65	753.1	51	10.6	74	e.	1	0.4			10 s		n.	0	0	cloudy	T. Gibson.
Bismarck, Dakota	27.93	709.4	29.69	754.1	56	13.3	74	w.	2	0.9		5 c	0	nw.		0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	29.95	760.7	29.98	761.5	60	15.6	81	n.	16	7.2		0	7 ks		w.	0.29	7.4	clearing	J. T. Elker.
Boise City, Idaho	27.05	687.1	29.83	757.7	48	8.9	80	nw.	4	1.8		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.81	757.2	29.96	761.0	59.0	15.0	60	nw.	24	10.7		1 ck	0			0.11	2.8	clear	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	83.0	28.3	85	s.	5	2.2		2 c	3 s		s.	0	0	fair	E. C. Imlay.
Buffalo, New York	29.45	748.0	30.19	766.8	52	11.1	84	sw.	4	1.8		0	sk.			0.10	2.5	clear	W. Finn.
Buford, Fort, Dakota	27.77	705.3	29.73	755.1	56	13.3	74	s.	1	0.4		0	0			0	0	clear	A. Schneider.
Burlington, Vermont	29.84	757.9	30.14	765.5	53.0	11.7	48	n.	9	4.0		0	0			0.02	0.5	clear	D. N. Farnell.
Cairo, Illinois	29.79	756.7	30.18	766.6	62.6	17.0	80	ne.	7	3.1		0	0			0.03	0.8	clear	W. H. Ray.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	68.5	20.3	77	n.	10	4.5		7 ck	0			3.52	89.4	fair	A. K. Alderson.
Cape May, New Jersey	30.00	762.0	30.04	763.0	62.0	16.7	72	n.	25	11.2		4 ck	0	ne.		1.83	46.5	fair	W. E. Smith.
Cape Mendocino, California	29.28	743.7	29.90	761.0	47	8.3	100	nw.			7		fg.		nw.	0	0	light fog	J. J. McLean.
Cedar Keys, Florida	30.03	762.7	30.05	763.3	84	28.9	72	w.	5	2.2		2 ck	2 k			0	0	fair	G. W. Davis.
Charleston, S. Carolina	29.92	760.0	29.97	761.2	79.5	26.4	88	w.	8	3.6		2 ck	0	sw.		0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.02	762.5	72.0	22.2	71	n.	9	4.0		0	0			0.65	16.5	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.27	743.4	30.08	764.0	71.0	21.7	76	ne.	8	3.6		2 cs	0	w.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	29.72	754.9	51.1	10.6	57	nw.	16	7.2		5 cs	0	w.		0	0	fair	E. McGovern.
Chicago, Illinois	29.48	748.8	30.17	766.3	52.2	11.2	62	se.	4	1.8		0	0			0	0	clear	John Laurens.
Chincoteague, Virginia	29.97	761.2	29.99	761.7	66	18.9	84	n.	27	12.1		3 ck	0			0.31	7.9	clear	C. F. Dickens.
Cincinnati, Ohio	29.50	750.8	30.21	767.3	62.0	16.7	60	ne.	7	3.1		0	0			0.06	1.5	clear	L. Dunne.
Cleveland, Ohio	29.50	749.3	30.23	767.8	52	11.1	78	s.	3	1.3		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.26	717.8	30.01	762.2	69	20.6	90	e.	4	1.8			10 s			0	0	threatening	T. J. Kenan.
Columbus, Ohio	29.35	745.5	30.19	766.8	55	12.8	74	n.	4	1.8		0	0			0.10	2.5	clear	D. Cuthbertson.
Concho, Fort, Texas	28.12	714.2	29.99	761.7	69.3	20.7	90	ne.	10	4.5			10 s		s.	0	0	cloudy	J. McGlone.
Davenport, Iowa	29.49	749.0	30.13	765.3	57	13.9	69	w.	2	0.9		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	29.86	758.4	64	17.8	75	sw.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.18	715.6	29.92	760.0	52	11.1	77	sw.	16	7.2		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.19	639.8	29.63	752.6	54	12.2	64	s.	5	2.2		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.01	762.2	30.03	762.7	62	16.7	78	n.	31	13.9		4ck	2 s	sw.	n.	1.19	30.2	fair	T. S. Townsend.
Denver, Colorado	24.64	625.8	29.68	753.9	54.0	12.2	72	nw.	2	0.9		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.24	742.7	30.12	765.0	56	13.3	74	sw.	3	1.3		3 c	0	w.		0	0	clear	F. W. Conrad.
Detroit, Michigan	29.49	749.0	30.18	766.6	56.0	13.3	80	calm	0	0		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.42	696.5	29.92	760.0	59	15.0	84	sw.	15	6.7		0	0			0	0	clear	D. J. Carr.
Dubuque, Iowa	29.44	747.8	30.13	765.3	56.2	13.4	44	sw.	0	2.7		0	hz.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.14	740.1	29.87	758.7	64	17.8	52	s.	12	5.4		0	3 k		sw.	0	0	clear	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho	25.05	630.3	29.64	752.8	56	13.3	45	w.	13	5.8			10 s		s.	0	0	cloudy	H. R. Boynton.
Eastport, Maine	29.70	755.9	29.83	757.7	57.0	13.9	69	nw.	20	8.9		2 k	2 s	w.	w.	0.45	11.4	fair	D. C. Murphy.
Elliott, Fort, Texas	27.34	694.4	30.01	762.2	57	13.9	60	se.	8	3.0		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.25	666.7	29.84	757.9	70.0	21.1	62	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.49	749.0	30.21	767.3	55	12.8	80	nw.	1	0.4		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.30	745.7	30.02	762.5	59.5	15.3	67	s.	9	4.0		hz.	hz.			0	0	dense haze	George Heathcote.
Galveston, Texas	30.01	762.2	30.05	763.3	82	27.8	72	s.	3	1.3		2 c	4 ks		sw.	0	0	fair	E. O'C. Maclnerney.
Grand Haven, Michigan	29.52	749.8	30.17	766.3	52.5	11.4	59	sw.	2	0.9		0	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	29.77	756.1	62.4	16.9	50	e.	3	1.3		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.97	761.2	29.99	761.7	73	22.8	84	n.	26	11.6			10 k		n.	0.19	4.8	cloudy	R. M. Crawford.
Helena, Montana	25.73	653.5	29.85	758.2	49	9.4	100	ne.	6	2.7			10 n			0.23	5.8	light rain	H. W. Dodge.

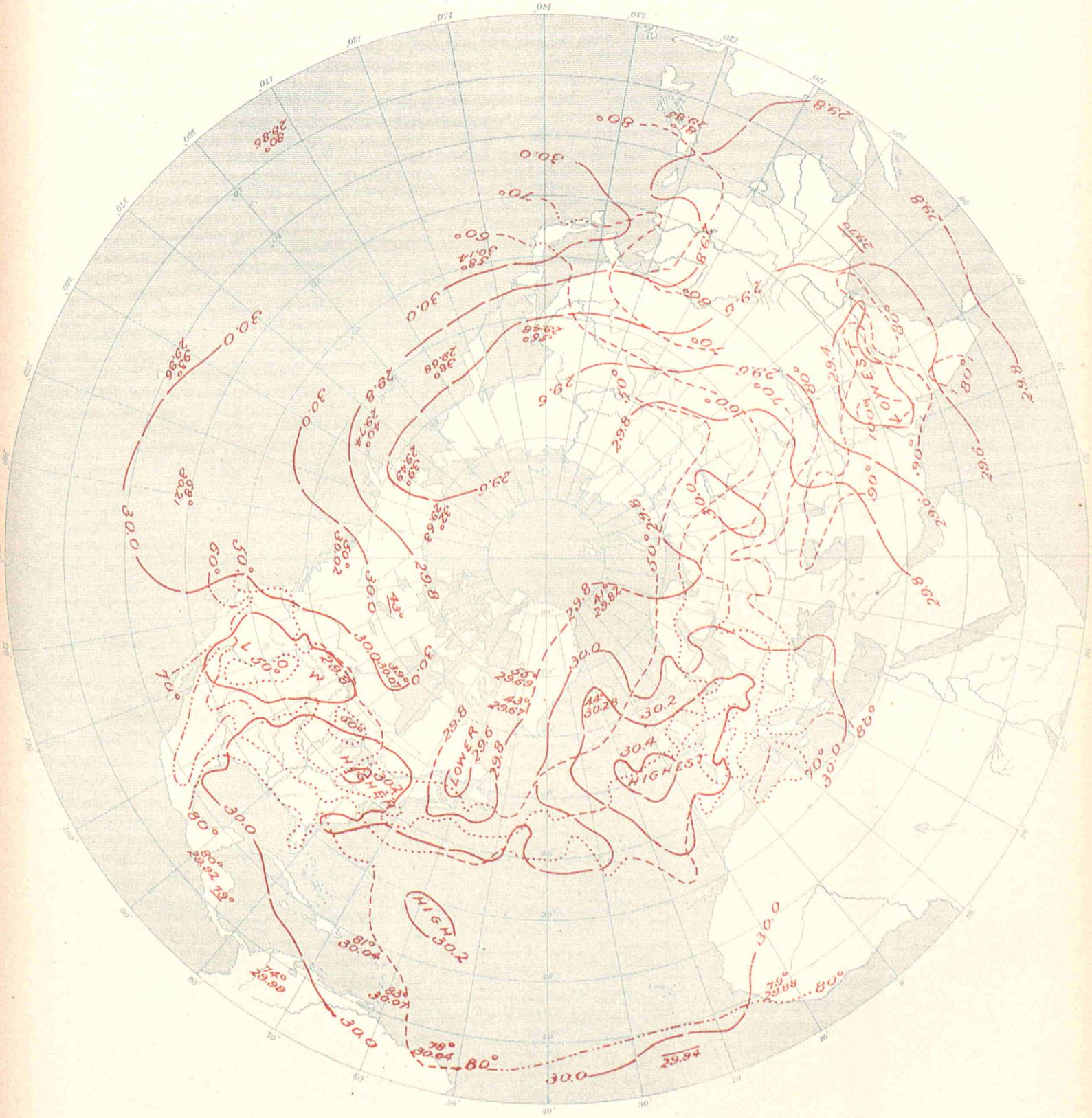
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.46	722.9	29.80	756.9	61.1	16.2	65	s.	16	7.2	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.38	746.2	30.16	766.1	57.0	13.9	67	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.99	761.7	30.02	762.5	80.2	26.8	89	s.	5	2.2	.....	3 cs	2 ks	nw.	s.	inap.	inap.	fair	I. A. Reed.
Jacksonville Florida	30.00	762.0	30.04	763.0	80.0	26.7	85	sw.	5	2.2	.....	3 cs	0	w.	.....	0.19	4.8	clear	J. W. Smith.
Keogh, Fort, Montana	27.24	691.9	29.67	753.6	53	11.7	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. B. Lamar.
Keokuk, Iowa	29.51	749.5	30.15	765.8	58.0	14.4	75	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	85.0	29.4	74	ne.	2	0.9	.....	3 c	2 ks	w.	.....	0.03	0.8	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.99	761.7	30.01	762.2	66	18.9	84	ne.	30	13.4	.....	.....	10 ks	.....	ne.	0.98	24.9	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	29.08	738.6	30.09	764.3	64.2	17.9	80	n.	8	3.6	.....	.....	9 s	.....	n.	0.26	6.6	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.28	743.7	30.04	763.0	64	17.8	58	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.25	742.9	30.12	765.0	60	15.6	81	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.06	738.1	29.88	758.9	49.8	9.9	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.78	756.4	30.09	764.3	67	19.4	90	e.	2	0.9	.....	3 c	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	62	16.7	87	e.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.59	751.6	30.14	765.5	60	15.6	87	n.	6	2.7	.....	0	0	.....	.....	0.08	2.0	clear	L. M. Dey.
Lynchburg, Virginia	29.38	746.2	30.05	763.3	74	23.3	59	ne.	3	1.3	.....	3 cs	3 s	ne.	.....	0.33	8.4	fair	Lou's Duane.
Mackinaw City, Michigan	29.40	746.7	30.04	763.0	59.0	15.0	60	sw.	15	6.7	.....	0	0	.....	.....	0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.96	761.0	29.98	761.5	75.0	23.9	90	nw.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.41	645.4	29.74	755.4	48	8.9	46	sw.	16	7.2	.....	10 k	0	sw.	.....	0	0	cloudy	F. Burke.
Marquette, Michigan	29.25	742.9	29.97	761.2	63	17.2	68	w.	18	8.0	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.78	756.4	30.11	764.8	67	19.4	84	ne.	3	1.3	.....	0	0	.....	.....	0.03	0.8	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.42	747.3	30.16	766.1	58	14.4	69	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. Line.
Missoula, Fort, Montana	26.67	677.4	29.93	760.2	51	10.6	66	sw.	4	1.8	.....	0	7 s	.....	.....	0	0	fair	J. H. Young.
Mobile, Alabama	30.02	762.5	30.06	763.5	77.8	25.4	89	n.	2	0.9	.....	3c;ck	1 ks	nw.	.....	0.31	7.9	fair	C. A. Read.
Montgomery, Alabama	29.78	756.4	30.01	762.2	73	22.8	99	nw.	3	1.3	.....	.....	fg.	.....	.....	0.23	5.8	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	28.79	731.3	29.76	755.9	56	13.3	74	s.	8	3.6	.....	3 c	0	s.	.....	0	0	clear	H. White.
Mt. Washington, N. H.	23.61	599.7	29.73	755.1	26.0	— 3.3	98	nw.	88	39.4	.....	0	0	.....	.....	0.88	22.4	clear	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.10	764.5	66.0	18.9	81	ne.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.92	760.0	30.03	762.7	61	16.1	60	n.	12	5.4	.....	0	0	.....	.....	0.10	2.5	clear	J. H. Sherman.
New London, Connecticut	29.97	761.2	30.02	762.5	65	18.3	63	n.	5	2.2	.....	0	3 s	.....	n.	0.36	9.1	clear	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.04	763.0	80.0	26.7	82	calm	0	0	.....	7 cs	0	nw.	.....	0.08	2.0	fair	M. Herman.
New York, New York	29.87	758.7	30.04	763.0	62	16.7	60	nw.	11	4.9	.....	2 cs	0	w.	.....	0.09	2.3	clear	G. E. Franklin.
Norfolk, Virginia	29.99	761.7	30.02	762.5	71.5	21.9	71	ne.	12	5.4	.....	6 k	4 s	nw.	ne.	3.77	95.8	cloudy	Wm. Davis.
North Platte, Nebraska	27.00	685.8	29.80	756.9	57.6	14.2	82	se.	14	6.3	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.00	762.0	30.04	763.0	47.0	8.3	77	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.93	734.8	30.07	763.8	62.0	16.7	74	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.61	752.1	29.63	752.6	31.8	— 0.1	100	ene.	13	5.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.85	758.2	30.17	766.3	52.0	11.1	80	ne.	3	1.3	.....	0	0	.....	.....	0.02	0.5	clear	J. G. Linsley.
Palestine, Texas	29.53	750.0	30.07	763.8	73.0	22.8	97	ne.	3	1.3	.....	.....	10k; ks	.....	w.	0.26	6.0	cloudy	J. W. Byram.
Pensacola, Florida	30.02	762.5	30.05	763.3	78.7	25.9	96	se.	3	1.3	.....	5 c	2 k	w.	sw.	0	0	fair	M. McGauran.
Philadelphia, Pa	29.98	761.5	30.08	764.0	61	16.1	84	n.	14	6.3	.....	0	0	.....	.....	0.15	3.8	clear	T. F. Townsend.
Pike's Peak, Colorado	17.84	453.1	29.66	753.4	24	— 4.4	92	sw.	64	28.6	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pioche, Nevada	23.91	607.3	29.71	754.6	58.0	14.4	47	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Pittsburg, Pennsylvania	29.40	746.7	30.19	766.8	51.5	10.8	83	n.	5	2.2	.....	0	0	.....	.....	0.20	5.1	clear	W. A. Reid.
Poplar River, Montana	27.64	702.0	29.74	755.4	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.48	748.8	30.14	765.5	51.0	10.6	80	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	29.92	760.0	29.96	761.0	57	13.9	51	n.	15	6.7	.....	0	0	.....	.....	0.70	17.8	clear	W. W. Eichelberger
Portland, Oregon	30.00	762.0	30.07	763.8	53.8	12.1	67	w.	5	2.2	.....	.....	10 s	.....	w.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	76	24.4	82	nw.	24	10.7	.....	.....	10 s	.....	nw.	0.46	11.7	cloudy	F. P. Chaffee.
Prescott, Arizona	24.71	627.6	29.73	755.1	50.0	10.0	42	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	29.92	760.0	29.95	760.7	60	15.6	67	nw.	14	6.3	.....	1 c	4s;hz	w.	w.	0.24	6.1	clearing	O. N. Kitchel.
Punta Rassa, Florida	30.01	762.2	30.02	762.5	74.5	23.6	90	ne.	4	1.8	.....	9 ck	0	ne.	.....	0.07	1.8	cloudy	W. J. Evans.
Red Bluff, California	29.55	750.6	29.90	759.4	61	16.1	72	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	29.53	750.0	30.18	766.6	51	10.6	86	nw.	4	1.8	.....	0	hz.	.....	.....	0.01	0.3	clear	E. W. McGann.
Roseburg, Oregon	29.54	750.3	30.10	764.5	52	11.1	66	n.	1	0.4	.....	.....	10 s	.....	n.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.84	757.9	29.90	759.4	58.5	14.7	81	s.	12	5.4	.....	.....	9 s	.....	.....	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.61	752.1	30.20	767.1	56.4	13.6	66	e.	3	1.3	.....	1 cs	0	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.45	748.0	29.49	749.0	39	3.9	89	s.	10	4.5	.....	.....	10 s	.....	.....	0.22	5.6	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.13	739.9	29.97	761.2	57.0	13.9	69	sw.	3	1.3	.....	1 cs	hz.	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	28.81	731.8	29.06	753.4	55	12.8	74	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.43	645.9	29.65	753.1	62	16.7	54	ne.	5	2.2	.....	4 k	1 ks	sw.	sw.	0.04	1.0	fair	J. Craig.
San Antonio, Texas	29.37	746.0	30.05	763.3	78	25.6	70	e.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Davis.
San Diego, California	29.89	759.2	29.96	761.0	64.0	17.8	85	w.	5	2.2	.....	.....	10 s	.....	w.	0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.00	762.0	30.03	762.7	61.0	16.1	65	nw.	24	10.7	.....	1 k	0	nw.	.....	0.13	3.3	clear	B. A. Blundon.
Sanford, Florida	29.99	761.7	.....	.....	79.5	26.4	91	sw.	1	0.4	.....	5 ck	3 ks	w.	sw.	1.08	27.4	cloudy	J. B. Marbury.
San Francisco, California	29.89	759.2	29.96	761.0	55.5	13.1	80	sw.	9	4.0	.....	.....	10 s	.....	sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.28	591.3	29.79	756.7	53.5	11.9	40	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	82.5	28.1	74	w.	7	3.1	.....	4 ck	0	w.	.....	0.02	0.5	fair	H. W. Ford.
Shaw, Fort, Montana	26.15	664.2	29.72	754.9	49	9.4	86	nw.	15	6.7	.....	.....	10 n	.....	.....	0.07	1.8	light rain	A. L. Mathews.
Shreveport, Louisiana	29.82	757.4	30.04	763.0	72.5	22.5	92	e.	4	1.8	.....	.....	10 s	.....	e.	0.21	5.3	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.84	732.5	30.04	763.0	63.5	17.5	80	e.	3	1.3	.....	0	7 s	.....	sw.	0	0	fair	W. M. Mattingly.
Sitka, Alaska	29.96	761.0	30.02	762.5	50	10.0	82	sw.	8	3.6	.....	.....	10 n	.....	sw.	0.60	15.2	light rain	F. W. Ficketts.
Smith, Fort, Arkansas	29.64	752.8	30.10	764.5	67.0	19.4	78	e.	5	2.2	.....	9 ck	0	s.	.....	0.02	0.5	cloudy	J. B. Campbell.
Smithville North Carolina	29.93	760.2	29.97	761.2	77	25.0	90	sw.	4	1.8	.....	4 cs	0	w.	.....	0.95	24.1	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	29.98	761.5	48	8.9	66	w.	1	0.4	.....	0	3 s	.....	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.52	749.8	30.19	766.8	54	12.2	55	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Starkville, Miss	29.62	752.3	30.09	764.3	72	22.2	82	n.	4	1.8	.....	0	2 k	.....	.....	0.56	14.2	clear	C. Dill.
Stockton, Fort, Texas	27.01	686.0	29.93	760.2	71	21.7	97	se.	8	3.6	.....	.....	10 s	.....	se.	0.06	1.5	cloudy	A. J. Warren.
Thomas, Camp, Arizona	27.15	689.6	29.78	756.4	55	12.8	47	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.50	749.3	30.18	766.6	60	15.6	65	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.47	697.7	29.77	756.1	62	16.7	30	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.72	754.9	29.74	755.4	40	4.4	82	se.	12	5.4	.....	.....	10 k	.....	se.	0.05	1.3	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	56	13.3	24	nw	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.83	757.7	30.08	764.0	74.5	23.6	88	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	James Kenealy.
Visalia, California	29.51	749.5	29.88	758.9	62.3	16.8	76	calm	0	0	.....	5 ck	0	nw.	.....	0	0	fair	O. D. Stewart.
Washakie, Fort, Wyoming	24.29	617.0	29.67	753.6	45.0	7.2	79	e.	2	0.9	.....	8 k	0	.....	.....	0	0	cloudy	T. M. Ambler.
Washington, D. C.	30.00	762.0	30.12	765.0	63.6	17.6	52	nw.	10	4.5	.....	0	0	.....	.....	1.01	25.7	clear	B. M. Purssell.
West Las Animas, Colorado	25.96	659.4	29.73	755.1	58	14.4	84	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.57	751.1	30.17	766.3	56.5	13.6	63	n.	6	2.7	.....	0	1 ks	.....	n.	0.29	7.4	clear	B. F. Hough.
Wilmington, N. Carolina	29.92	760.0	29.97	761.2	75.5	24.2	94	nw.	3	1.3	.....	3c;cs	0	.....	.....	0.51	13.0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.44	646.2	29.70	754.4	52.5	11.4	59	nw.	0	2.7	.....	0	0	.....	.....	inap.	inap.	clear	J. Grover.
Yankton, Dakota	28.70	729.0	29.98	761.5	61	16.1	65	sw.	17	7.6	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.76	755.9	71.8	22.1	58	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.06	763.5	79	26.1	80	calm	0	0	.....	.....	10 s	.....	e.	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.6	86	se.	.....	.....	2	5 ck	4 s	e.	.....	0.040	1.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.43	747.5	29.99	761.7	74	23.3	94	calm	.....	.....	0	.....	10 ks	.....	calm	2.09	53.1	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	79	26.1	91	n.	.....	.....	1	.....	6 ks	.....	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Walloe
York Factory, B. A.	30.01	762.2	30.07	763.8	38.5	3.6	95	w.	10	4.5	.....	3 k	2 s	w.	w.	0	0	fair	Fortesque & Wood.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 44° 44′, E. 14° 17′	30.11	764.8	79	26.1	58	nne.			2		3	ssw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.16	766.1	76.5	24.7	84	wsw.			2		3	wsw.						d. clouds.
H. M. S. Gannet, N. 31° 15′, W. 17° 30′	30.15	765.8	71	21.7	69	nne.			1		3					2	ne.	d. clouds.
H. M. S. Himalaya, N. 35° 12′, E. 19° 32′	30.03	762.7	75	23.9	86	n			2		0					1	nne.	blue sky.
H. M. S. Iris, Port Said, Egypt	29.85	758.2	79	26.1	95	nne.			3		0							blue sky.
H. M. S. Monarch, Trieste, Austria	30.08	764.0	74	23.3		ne.			4		9							d. clouds.
H. M. S. Minotaur, 42° 13′, W. 9° 43′	30.13	765.3	66.5	19.2	79	calm			0		1	wsw.				2	wnw.	dense mist.
H. M. S. Opal, N. 9° 42′, W. 16° 05′	30.03	762.7	86	30.0	76	wsw.			1		4	ssw.				2	wnw.	d. clouds.
H. M. S. Superb, N. 37° 00′, E. 15° 50′*	30.10	764.5	75	23.9	86	ne.			3							1	sw.	d. clouds.
H. M. S. Tyne, N. 8° 12′, W. 19° 50′	30.04	763.0	80	26.7	82	n.			3		5	nne.				2	var.	d. clouds.
H. M. S Thetis, N. 29° 10′, W. 18° 52′	30.20	767.1	71	21.7	71	nne.			1		6	nne.				3	nne.	d. clouds.
H. M. S. Tenedos, Trepassey, N. F			49	9.4	93	nw.			3		1	w.						blue sky.
H. S. M. S. Eugenie, N. 46° 13′, W. 9° 53′	30.38	771.6	68.4	20.2	84	e.			3		2							d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	29.91	759.7	60	15.6	65	n.	11	4.9			0			0.55	14.0			clear.
U. S. S. Lancaster, Kronstadt, Russia	30.05	763.3	64	17.8	83	wnw.			4		2		wnw.			sm'h		fair.
U. S. S. Nipsic, Tompkinsville, Staten Island, N. Y*	30.02	762.5	61	16.1	71	nnw.			3		2							fair.
U. S. S. Portsmouth, Conimicut, R. I	29.98	761.5	61	16.1	82	n.			6		5		w.					fair.
U. S. S. Powhatan, Port Royal, S. C	29.95	760.7	81	27.2	87				1		5							fair.
U. S. S. Quinnebaug, Gaboon river, Guinea	30.02	762.5	81	27.2	74	s.			1		5		s.			sm'h		fair.
U. S. S. Saratoga, Iona Island, N. Y	30.07	763.8	64	17.8	62	n.			3		8?		n.	light	light			clear?
U. S. S. Vandalia, N. 26° 49′ W. 65° 10′	30.26	768.6	76	24.4	86	se.			2		2					sm'h		fair.
H. P. M. S. Rio Lima, Porto Praya, Cape Verd Islands			77.0	25.0	84	ne.			3		0					3	se.	blue sky.
S. S. British Prince, N. 38° 45′ W. 72° 44′†	29.99	761.7	60	15.6		ne.			5		8?		e.	6 h'r	6 h'r	sli't	sw.	clear?
S. S. Illinois, N. 42° 06′, W. 46° 22′	30.03	762.7	63	17.2		nnw.			4		6		n.			sm'h	ese.	fair.
S. S. Lord Gough, off Ormes Head, Wales						ne.			2		2			0	0	sm'h		clear.
S. S. Ohio, Liverpool, Eng †	30.28	769.1	63	17.2		nw.			3		5?		nw.	0	0			clear?
S. S. Pennsylvania, Philadelphia, Pa†	30.08	764.0	72	22.2		w.			2		3		w.	0	0			clear.
S. S. British Princess, N. 46° 08′, W. 35° 06′			61	16.1		var.			2		5?		s.	8 h'r	8 h'r	mod.	s.	overcast?
S. S. Circassian, N. 49° 28′, W. 46° 24′	29.91	759.7	43	6.1	75	sse.			1		10					2	con.	foggy.
S. S. Grecian, Montreal, Canada	30.04	763.0	51	10.6	86	w.			3		0			2 h'r	2 h'r			clear.
S. S. Nova Scotian, N. 45° 41′ W. 57° 41	29.82	757.4	48	8.9		ssw.			3		10		w.			sm'h		misty.
S. S. Scandinavian, N. 45° 37′, W. 43° 15′	29.97	761.2	64	17.8		ene.			2		8		ene.			light	ene.	d. clouds.
S. S. Prussian, N. 53° 30′ W. 3° 32′	30.28	769.1	73	22.8		wnw.			2		5		nw.	0	0	sm'h	wnw.	
S. S. Jason, N. 41° 05′ W. 64° 13′			61.7	16.5		nnw.			4	2 c	0					3	nw.	clear.
S. S. Alvo, off Cape Enganno, Hayti, W. I *	30.02	762.5	78	25.6		ese.			5–6		6		se.	0	0	short	se.	d. clouds.
S. S. Devonia, N. 43° 30′, W. 50° 30′ *†	29.96	761.0	53	11.7		s.			2		0					sli't	ssw.	foggy.
S. S. Furnessia, Queenstown, Ireland †	30.28	769.1	60	15.6	94	sw.			2		7		sw.	0	0			fair.
S. S. Llandaff City, Bristol, Eng			58	14.4		ssw.			4		7		ssw.	sh'rs	sh'rs			cloudy.
S. S. Gallia, N. 46° 39′, W. 42° 05′	29.97	761.2	66	18.9	89	s.			1		2		calm	0	0	sm'h		hazy.
S. S. Marathon, N. 37° 38′ W. 9° 11′	30.13	765.3	70	21.7		nnw.			3		2		nnw.	0	0	mod	nw.	fine.
S. S. Pavonia, N. 50° 54′, W. 17° 32′	30.39	771.9	60	15.6	88	ssw.			2		3		sw.	0	0	long	nw.	clear.
S. S. Colina, N. 45° 49′, W. 55° 18′†	29.68	753.9				ssw.			2		10			0	0	sm'h		foggy.
S. S. Rhiwindda, N. 41° 20′, W. 65° 20′			67	19.4		wsw.			4		4		w.	18 h'r	18 h'r	chop		rainy.
S. S. Abyssinia, N. 51° 18′, W. 14° 58′	30.46	773.7	60	15.6	94	w.			2		0			0	0	sm'h		blue sky
S. S. Wisconsin, N. 46° 32′, W. 39° 28′			60	15.6		n.			1		9		nw.	0	0	mod.	ese.	cloudy
S. S. Wyoming, N 41° 21′, W. 60° 53′	29.91	759.7	64	17.8		ssw.			4		6		sw.	0	0	mod.	wsw.	foggy.
S. S. Bohemia, N. 43° 19′, W. 43° 11′						ne.			1		8		ne.	0	0	sm'h	ne.	overcast.
S. S. Gellert, New York, N. Y	30.07	763.8	76	24.4	70	ne.			3		1		wsw.	4 h'r	4 h'r			clear.
S. S. Rugia, N. 55° 27′, W. 22° 30′	30.38	771.6	53	11.7		w.			3		10					long	sw.	misty.
S. S. Silesia, Havre, France	30.32	770.1	60.0	15.6		e.			2		2		e.	0	0			fair.
S. S. City of Paris, N. 43° 08′, W. 41° 48′†*	29.95	760.7				calm			0					0	0	sm'h		clear.
S. S. Virginian, N. 40° 57′ W. 49° 01′ *	30.08	764.0	70	21.1		ssw.			3		10			0	0	sm'h		dense fog.
S. S. Archimedes, N. 40° 44′, W. 56° 00′	29.99	761.7				sw.			3		1		calm	0	0	sm'h		light haze.
S. S. Hevelius, N. 36° 15′, W. 14° 30′			70	21.1		ene.			3		2		ene.	0	0	sm'h		clear.
S. S. Ptolemy, N. 44° 15′ W. 10°	30.26	768.6	62	16.7	86	ene.			6	c	2 k		w.	0	c	4	nnw.	clear.
S. S. Colorado, N. 25° 05′, W. 80° 21′ †	30.05	763.3	72	22.2		nw.			1		2		nw.	0	0	sm'h		clear.
S. S. Chalmette, New York, N. Y †	30.06	763.5	60	15.6		n.			4		2		n.	2 h'r	2 h'r			clear.
S. S. Lone Star, N. 38° 15′, W. 74° 30′ †	29.95	760.7	66	18.9		n.			4		4		nne.	6 h'r	6 h'r	mod.	nne.	fair.
S. S. Hermod, N. 37° 10′, W. 71° 20′†	29.92	760.0	66	18.9		n.			8		10		var.	4 h'r	4 h'r	r'gh	var.	cloudy.
S. S. City of Merida, N. 23° 09′, W. 82° 22′†	30.05	763.3	79	26.1		calm			0		5			0	0			fair
S. S. Denmark, New York, N. Y †	30.03	762.7	65	18.3		nnw.			6		2		nnw.	12 h'r	12 h'r			clear.
S. S. Egypt, N. 44° 00′, W. 41° 50′	30.00	762.0	64	17.8		ene.			1		2		ene.	0	0	mod.	ese.	clear.
S. S. Erin, N. 49° 40′, W. 60° 21′	30.39	771.9	66	18.9		n.			6		4		n.	0	0	sm'h		fair.
S. S. Helvetia, N. 40° 33′, W. 51° 39′	30.02	762.5	74	23.3	95	w.			1		2		w.	0	0	sm'h	w.	clear.
S. S. Donau, N. 49° 39′, W. 11° 41′	30.50	774.7				n.			1–2		5		n.	0	0	sm'h	n.	fair.
S. S. Elbe, N. 39° 57′, W. 67° 48′	29.92	759.9	55	12.8		nnw.			4–5		10			8 h'r	8 h'r	mod.	var.	rain & fog.
S. S. Fulda, N. 41° 29′, W. 61° 36′	29.85	758.1	66	18.9	100	sw.			5		10		sw.	6 h'r	6 h'r	cross	w.	overcast.
S. S. Habsburg, N. 41° 08′, W. 60° 08′	29.96	761.0				ssw.			4		7		s.	0	0	mod.	ssw.	hazy.
S. S. Hohenstaufen, N. 44° 47′, W. 40° 29′	30.09	764.3				e.			4		10		e.	1½h'r	1½h'r	mod.	e.	rain & fog.
S. S. Hermann, N. 42° 09′, W. 44° 49′	29.99	761.7	68	20.0	84	nnw.			5		6		nnw.	0	0	mod.	nnw.	fair.
S. S. Main, N. 48° 49′, W. 19° 37′	30.41	772.4	61	16.1		sse.			2		4		sse.	1 h'r	1 h'r	mod.	se.	fair.
S. S. Strassburg, N. 50° 40′, E. 0° 20′	30.25	768.3	70.5	21.4	78	wsw.			1		3			0	0			clear.
S. S. Werra, N. 50° 48′, W. 0° 43′	30.28	769.1	56	13.3		w.			3					0	0	sm'h	wsw.	clear.
S. S. City of Augusta, Savannah, Ga †	30.07	763.8				ese.			6		10		ese.	0	0			squally.
S. S. Colon, N. 30° 40′, W. 73° 53′ †	30.13	765.3	79	26.1	95	ssw.			4		0			0	0	small	ssw.	clear.
S. S. Muriel, Trinidad, W. I	30.08	764.0	82	27.8		calm			0		10					sm'h		drizzling.
S. S. Orinoco, New York, N. Y†	30.00	762.0	70	21.1		ne.			4		1		ne.	3 h'r	3 h'r			clear.
S. S. Belgenland, N. 40° 55′, W. 48° 25′			64	17.8	89	nnw.			4		0			0	0	mod.	w.	clear.
S. S. Nederland, N. 47° 44′, W. 26° 07′			59	15.0		se.			5		5		se.	0	0	mod	sse.	hazy.
S. S. Rhynland, Antwerp, Belgium	30.35	770.9	70	21.1	75	nne.			2		2		n.	0	0			clear.
S. S. Pennland, N. 50° 31′ W. 6° 54′	30.32	770.1	58	14.4	88	ne.			1		2		ne.	6 h'r	6 h'r	sm'h		hazy.
S. S. Waesland, N. 40° 28′, W. 73° 40′	30.05	763.3	58	14.4		n.			5		0			4 h'r	4 h'r	light	n.	clear.
S. S. P. Caland, N. 40° 27′, W. 70° 15′	29.94	760.5	62.2	16.8	96	nnw.			2		10		wnw.			1	nw.	rainy.
S. S. Schiedam, N. 48° 40′, W. 24° 56′	30.31	769.9	65	18.3	89	se.			3		8		se.	0	0	mod.	sw.	cloudy.
S. S. W. A. Scholten, Rotterdam, Holland	30.23	767.8	59.0	15.0	85	wsw.			1		0			0	0			clear.
S. S. Belize, N. 18° 11′, W. 75° 59′ *†	30.13	765.3	79	26.1		ne.			2		10		ne.	0	0	mod.	ne.	overcast.
S. S. Caracas, N. 18° 20′, W. 67° 43′†	30.13	765.3	81.5	27.5	86	e.			4		8		ese.	½ h'r	½ h'r	sm'h		cloudy.
S. S. Valencia, N. 34° 49′, W. 71° 49′†	30.20	767.1	80.5	26.9	87	ssw.			6		4		ssw.	0	0	h'vy	sw.	fair.
S. S. State of Indiana, off New York, N. Y			50	10.0		nw.			5		0			4 h'r	4 h'r	sm'h		clear.
S. S. State of Nebraska, N. 49° 47′, W. 31° 42′*†	30.13	765.3	56	13.3		ese.			5		8		e.	0	0	mod	se.	foggy.
S. S. Thingvalla, N. 40° 46′, W. 69° 13′ †	29.77	756.1	51.6	10.9		wnw.			3		10		wnw.	8 h'r	8 h'r	long	nw.	overcast.
S. S. Toledo, N. 36° 30′, E. 1° 22′ *†	30.24	768.1	68	20.0		ne.			3		1		ne.	0	0	h'vy	ne.	clear.
S. S. Romano, N. 41° 51′, W. 52° 39′			62	16.7		wsw.			3		4		wsw.	0	0	hv'y	w.	fair.
S. S. Dominion, N. 53° 27′, W. 48° 53′			47	8.3		s.			3		0					sm'h	sse.	foggy.
S. S. Oregon, Liverpool, Eng	30.27	768.8				n.			1		5		n.					fair
S. S. Lake Huron, N. 48° 19′, W. 46° 30′	29.95	760.7	46	7.8		ssw.			1		fg.		sw.			sm'h		dense fog.
S. S. Lake Manitoban, N. 52° 00′, W. 37° 35′	30.12	765.0	53	11.7		se.			3		10		se.	0	0	sm'h		dense fog.
S. S. Daniel Steinmann, N. 46° 28′, W. 54° 40′†	29.75	755.6	48	8.9		ssw.			3		10			0	0	long	s.	dense fog.
S. S. Plantyn, N. 45° 44′, W. 39° 58′	29.97	761.2							3		6		nnw.	3 h'r	3 h'r	sm'h	sw.	foggy.
S. S. Aries, N. 39° 55′, W. 73° 48′*†	29.98	761.5				n.			5		2		n.	0	0	short	n.	clear.
S. S. Norman, N. 42° 14′, W. 70° 25′						nnw.			5		2		nw.	4 h'r	4 h'r			clear.
S. S. Saxon, N. 41° 02′, W. 71° 45′ †	29.93	760.2				nw.			9		2							clear.
S. S. Celtic, N. 40° 40′, W. 69° 40′ †	29.86	758.4	58	14.4		nnw.			4		10		var.	16 h'r	16 h'r	sm'h		misty.
S. S. Iowa, N. 42° 31′, W. 67° 44′ †	29.85	758.2	56	13.3		nw.			4		8		nw.	13 h'r	13 h'r	light	nw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1.—North Atlantic.—Continued.																		
S. S. Antonio Lopez, Cadiz, Spain	30.15	765.8	72	22.2	74	e.			5		2			0	0			clear.
Schr. Abbie H. Gheen, N. 40° 02′, W. 74° 40′	30.10	764.5	62	16.7		n.			6									clear.
Bk. Aquidneck, N. 28° 19′, W. 44° 03′*†	30.10	764.5				nw.			3		0			0	0	light	nw.	clear.
Schr. Anna A. Holton, N. 31° 45′, W. 69° 39′*†	30.16	766.1	80	26.7		ssw.			6		2		s.	0	0	long	ssw.	clear.
Schr. Arthur Burton, Boston, Mass †	29.95	760.7				nnw.			4		0			0	0			fine.
Bk. Aureola, N. 42° 11′, W. 37° 48′ †	29.92	760.0	76	24.4		e.			3		5		ene.	0	0	mod.	e.	fair.
Bk. Arda, Sackville, N. B†	29.75	755.6				w.			4		3		w.	0	0			clear.
Bk. Alba, N. 41° 30′, W. 65° 14′ *†	29.92	760.0	56.1	13.4		w.			4					0	0			
S. S. Burswell, Mouth of Thames, Eng*†	30.22	767.6	63	17.2		calm			0		8		ene.	0	0	sm'h		fine.
Bg. Belle of the Bay, N. 28° 27′, W. 90° 50′†	30.01	762.2				sw.			1		2		w.	10 minutes		sm'h	s.	clear.
Bk. Bayonaise, N. 42° 03′, W. 12° 40′			62.6	17.0		ene.					6		e.			sm'h	e.	fine.
Schr. C. R. Flint, Tampico Bar, Mexico†	30.00	762.0	86	30.0		se.			1		10		se.	1 h'r	1 h'r	r'gh	se.	cloudy.
Bk. Cato, Bodöe, Norway *†	30.00	762.0				wsw.			5									
S. Criterion, N. 41° 10′, W. 53° 00′ *†	29.75	755.6				w.			4		3		w.	0	0	light	w.	clear.
Schr. Clotilde, N. 21° 54′, W. 97° 07′ *†	29.95	760.7	85	29.4		e.			2		2		se.	0	0	short	ese.	clear.
S. David Stewart, N. 5° 10′, W. 25° 09′ †	29.84	757.9				var.			1		2		sse.	0	0	long	sse.	
Bkt. David A. Preston, N. 23° 12′, W. 74° 04′						se.			3		10		se.	6 h'r	6 h'r	mod.	ese.	
S. E. J. Spicer, N. 43° 33′, W. 44° 50′	30.04	763.0	52	11.1	93	nnw.			5		10		nw.	12 h'r	12 h'r	mod.	ne.	foggy.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′*†	30.20	767.1	61	16.1		sw.			5					0	0	sm'h		clear.
U. S. Fish Com. S. S. Fish Hawk, New Pt. Comfort, Va.			72	22.2	90	nne.			5		9		n.	0.65	16.5			cloudy.
Sch. F. E. Waters, N. 35° 15′, W. 75° 00′*†	30.00	762.0				n.			2				sw.	2 h'r	2 h'r	h'vy	sw.	cloudy.
Bgt. George, N. 28° 10′, W. 62° 20′*†	30.21	767.3	78	25.6		s.			1		8			sh'rs	sh'rs	mod.	sse.	squally.
Bk. Galeon, N. 23° 35′, W. 83° 10′†	30.04	763.0	83	28.3		e.			1		3			0	0	sm'h	e.	blue sky
Bk. Heinrich & Tonio, N. 43° 16′, W. 35° 28′†	29.90	759.4	70	21.1		ene.			2		0			0	0	light	e.	clear.
S. Hedwig, N. 36° 10′, E. 14° 32′	30.04	763.0	72.5	22.5	96	ene.			4		0			0	0	1	ene.	fine.
Bk. Hattie G. McFarland, N. 32° 49′, W. 78° 30′ †	30.01	762.2	78	25.6		wsw.			2		8		w.	0	0	sm'h		
Bk. Harriet S. Jackson, Portland, Maine †						nw.			4		3		nw.	0	0	sm'h	ese.	fine.
Bk. Horace Scudder N. 11° 51′, W. 46° 11′ *†	30.12	765.0	76	24.4		ne.			5		9		ne.	light	light	long	ne.	cloudy.
Schr. Isabel Alberto, N. 36° 47′, W. 75° 06′†	30.00	762.0				n.			4		5		n.	hv'y	hv'y	high	var.	fair.
Bk. Johanne, N. 44° 33′, W. 30° 45′ *†	30.03	762.7	64	17.8		ese.			4		10		ese.	15 h'r	15 h'r	mod.	ese	foggy.
Bg. John Wesley, N. 25° 50′, W. 35° 20′ *†	30.07	763.8	76	24.4		w.			3		3		w.	0	0	sm'h	w.	clear.
Schr. Jennie N. Huddell, Charleston, S. C.†	29.99	761.8	83	28.3		wnw.			1		2		nw.	0	0			clear.
S. J. W. Gildemeister, N. 33° 08′, W. 47° 02′	30.10	764.5	74.3	23.5	80	nnw.			4–5		3 k		nnw.	0	0	3	nw.	blue sky.
Bkt. Kryolith, Ivigtut, Greenland*†	29.98	761.5				s.			6		10		rain	rain	rain			overcast.
Bg. L. & W. Armstrong, N. 28° 01′, W. 59° 46′ *†	30.32	770.1				n.			1		1		e.	0	0	sm'h	nnw	clear.
Light-house Tender Laurel, Key West, Flat	30.02	762.5	84	28.9		ese.			1		7		e.	1½ h'r	1½ h'r			fair.
Bk. Louise Adelaide, Matanzas, Cuba, W. I†	30.04	763.0	81	27.2		ssw.			1		1			½ h'r	½ h'r			clear.
Bk. Milo, N. 45° 43′, W. 54° 57′†	29.75	755.6				wsw.			5							short	wsw.	dense fog.
S. S. Madrid, N. 36° 56′, W. 29° 25′†	30.01	762.2	68	20.0	95	ssw.			2		4		w.	sh'rs	sh'rs		var.	fair.
Schr. Minnie A. Bonsall, Weehawken, N. J †	29.98	761.4	69	20.6		ne.			5				s.	0	0			clear.
Bk. Matilda C. Smith, N. 50° 17′, W. 1° 30′ †	30.31	769.9				wsw.			2		3		w.	0	0	sm'h		fine.
Schr. Maggie Abbott, Baracoa, Cuba†	30.01	762.2									6		calm	sh'rs	sh'rs			fair.
Bk. National Eagle, N. 38° 48′, W. 29° 24′						ssw.			2		2		sw.	0	0	mod.	sse.	clear.
Bg. O. C. Clary, N. 27° 56′, W. 60° 25′ *†	30.27	768.8				calm			0		0					sm'h	ne.	clear.
Bk. Ottawa, off Goodwin Sands, Eng	30.25	768.3	58	14.4		sw.			2		3		s.	0	0	sm'h		clear.
S. Paramita, N. 21° 32′, W. 38° 33′†	30.19	766.8	84	28.9		ne.			1		1		sw.	0	0	long	nnw	clear
S. Rudolph, N. 48° 38′, W. 11° 49′			62.0	16.7		n.			2		4		nne.	0	0	mod.	nw.	fair.
Bg. Rising Sun, Barbadoes, W. I.†	30.05	763.3	84	28.9		e.								0	0			
Bk. Rosino, N. 41° 05′, W. 19° 57′			67	19.4		se.			2		fg.		se.	0	0	r'gh	se.	foggy.
Bk. Sunbeam, N. 40° 01′, W. 37° 55′†	29.95	760.7	69	20.6	80	calm			0		2		ese.	0	0	sm'h		clear.
S. Sovereign of the Seas, N. 32° 06′, W. 45° 03′*†	30.22	767.6	74	23.3	86	wnw.			4		5		wnw.	sh'rs	sh'rs	sm'h	wnw.	fine.
Schr. Viola Reppard, Boston, Mass.	29.99	761.7	68	20.0		nnw.			7		2		nnw.	2 h'r	2 h'r			clear.
Bkt. Wandering Jew, Matanzas, Cuba, W. I *†	30.04	763.0	81	27.2		sw.			2		5		s.	0	0			fair.
Bgt. Sunlight, N. 35° 17′, W. 65° 59′						sw.			5		5		sw.	0	0	mod.	sw.	smoky.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†	29.80	756.9	64.5	18.1	97	n.			5		3	n.				2	n.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.22	767.6	58	14.4		wnw.			2		4							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata	29.78	756.4	62	16.7	94	n.			2		6	n.						d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.87	758.7	65	18.3	89	n.	17	7.6			5		ne.	0.01	0.3	sm'h		fair.
U. S. S Galena, Montevideo, Uruguay*	29.85	758.2	69	20.6	70	n.			4		5		ne.			mod.		fair.
S. Annie M Law, S. 36° 05′, E. 19° 52′ *†	30.26	768.6	58	14.4		wnw.			4		10		wnw.	0	0	high	w.	threatening
S. Wm. McGilvery, S. 33° 13′, W. 50° 15′ *†	30.15	765.8	68	20.0	95	ne.			4		7		ne.	0	0	sm'h		
May Hulse, S. 0° 05′, W. 26° 10′	30.04	763.0	79.2	26.2	79	e.			3		10							overcast.
S. S. Olbers, N. 15° 26′, W. 38° 21′ †	30.22	767.6	81	27.2	78	se.			5		7		sse.	3 h'r	3 h'r	mod.	sse.	raining.
Bk. Achille F, S. 25° —′, W. 39° —′ †	30.35	770.9	72	22.2	95	ne.			4		10		ne.	8 h'r	8 h'r	mod.	ene.	drizzling.
Bk. Alpheus Marshall, S. 14° 52′, W. 7° 32′ *†	30.10	764.5				ese.			5		3		calm	0	0			clear.
Bk. Ceylon, S. 22° 31′, E. 0° 08′ *†	30.40	772.1	69	20.6	80	se.			6		3		se.	0	0	r'gh	se.	clear.
S. Dynomene, S. 10° 38′, W. 4° 07′	30.22	767.6	69	20.6	85	ese.			6		8			mod.	mod.	long	se.	showery.
Bk. Adelaide, S. 25° 05′, W. 43° 04′*†	30.34	770.6	75	23.9		ene.			2		1		nw.	0	0	light	e.	clear.
H. P. M. S. Duque de Terceira, S. 13° 33′, E. 12° 30′	30.05	763.3	69.1	20.6	73	n.			3		0			0	0	3	sw.	blue sky.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.90	759.4	77	25.0	57	sw.			1		0							blue sky.
H. M. S. Champion, N. 8° 00′, E. 117° 30′	29.75	755.6	84	28.9	91	s.			1		6							d. clouds
H. M. S. Espiegle, N. 6° 58′, E. 171° 42′	29.86	758.4	80	26.7	82	ese.			2		9					1	ene.	d. clouds.
H M. S. Flying Fish, N. 37° 18′, E. 125° 59′	29.96	761.0	65	18.3	84	ssw.			1		3							d. clouds.
H. M. S. Magpie, N. 3° 50′, E. 118° 07′	29.84	757.9	83.2	28.4	83	ene.			1		9	e.						d. clouds.
H. M. S. Sheldrake, N. 2° 51′, E. 109° 54′			82	27.8		sw.			1		2							d. clouds.
H. M S Zephyr, N. 34° 41′, E. 135° 12′	30.11	764.8	72	22.2	85	sw.			1		2							d. clouds.
H. P. M. S. Tamega, Macao, China	29.70	754.4	81.5	27.5	84	w.			2		10			5 h'r	5 h'r			overcast.
U. S. Naval Hospital, Yokonama, Japan	30.17	766.3	65	18.3	86	ssw.			2		0			0	0			clear.
U. S. S. Adams, Sitka, Alaska †	30.01	762.2	49	9.4	93	ne.			1		10							raining.
H. M. S. Essex, N. 18° 14′, W. 149° 07′	29.94	760.5	75	23.9	86	ese.			4		8		ese.			sm'h	ne.	cloudy.
U. S. S. Hartford, Honolulu Sandwich Ids*	29.96	761.0	93	33.9	90	se.			1		5			0	0			fair.
U. S. S. Monocacy, Salee river, Corea	29.97	761.2	68	20.0	90	sw.			1		5		calm					hazy.
U. S. S. Richmond, N. 27° 07′ E. 121° 27′ *	29.63	752.6	78	25.6	91	e.			1		10		ne.					cloudy
S. S. Arabic, N. 44° 47′, W. 140° 37′	29.64	752.8	77	25.0	95	ne.			4		10		ne.	0.2	5.	mod.	ne.	cloudy.
S. S. Coptic, N. 23° 57′ E. 118° 15			52	11.1	100	calm			0		6		e.	0	0	sm'h		fair.
S. S. Oceanic, N. 39° 21′, E. 152° 00′	29.71	754.7	75.5	24.2	84	ne.			5		9		ne.	24 h'r	24 h'r	mod.	ne.	raining.
S. S. Columbia, Bay View, Oregon †	30.14	765.5	58	14.4	64	nne.			3		3		ne.			sm'h	ese.	clear.
S. S. Oregon, San Francisco, Cal.†	30.07	763.8	52	11.1	86	wnw.			4		10		wnw.					cloudy.
S. S. Willamette, Seattle, Wash. Ter †	30.00	762.0	55	12.8	93	calm			0		10							threatening
S. S. Ancon, San Francisco, Cal.†	30.18	766.6	52	11.1	100	nw.			1		2		nnw.	0	0			clear.
S. S. City of Chester, Pt. Arenas, Cal†	29.96	761.0	55	12.8	81	wsw.			3		8		sw.					cloudy.
S. S. Queen of the Pacific, Portland, Oregon †	29.93	760.2	51	10.0	86	nw.			6		0					h'vy	nw.	clear
S. S. City of New York, N. 29° 17′. W. 141° 23′†	30.07	763.8	49	9.4		sw.			2		5			0	0			fair.
S. S. City of Rio de Janeiro, N. 22° 15′, E. 114° 22′†	30.21	767.3	68	20.0	74	calm			0		10		nnw.			sm'h		hazy.
S. S. Granada, N. 19° 30′, W. 105° 32′ †	29.72	754.9	79	26.1	51	ne.			1		8		ene.	0	0	sm'h		cloudy.
S. S. San Blas, Panama, Panama	29.96	761.0	78	25.6	82	n.			5		10		n.	8 h'r	8 h'r	long	nnw.	gloomy.
S. S. Benteci, Shanghai, China*			80	26.7		nw.			2		7		nw.	0	0			fair.
S. S. Radnorshire, Hiogo, Japan*†	29.85	758.2	68	20.0	84	e.			3–4		5		e.	0	0			fair.
S. Sacramento, N. 9° 22′, E. 123° 02′ *†	30.05	763.3				sw.			2		0			0	0			clear.
	29.90	759.4	82	27.8	83	e.			2		5		e.	4 h'r	4 h'r	sm'h		fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. St. David, N. 17° 50′ E. 117° 36′*†	29.72	754.9	82	27.8	91	sse.			4		4		sse.	8 h'r	8 h'r	short	sse.	raining.
Bk. Xenia, Shanghai, China			74	23.3		ese.			3		3		e.	0	0			clear.
H. M. S. Sappho, N. 18° 37′, W. 104° 14′	29.96	761.0	78	25.6	95	n.			2		3	nw.				2	nw.	d. clouds.
U. S. S. Ranger, La Libertad, San Salvador	29.92	760.0	80	26.7	82	calm			0		5			0.01	0.3	sm'h		fair.
S. Henry Failing, Wilmington, Cal †	29.85	758.2	63	17.2		e.			1		4		nw.	0	0	sm'h	wnw.	foggy.
S. Grecian, Yokohama, Japan †	30.17	766.3	69	20.6	85	s.			3		0			0	0			clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W.			50	10.0	79	calm			0		5	sw.						d. clouds
H. M. S. Kingfisher, S. 36° 02′, W. 117° 51′	29.92	760.0	64	17.8		nnw.			1		10					6	nne.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids, Oceania	29.72	754.9	74	23.3	100	calm			0		10							drizzling.
U. S. S. Iroquois, Valparaiso, Chili	29.91	759.7	54	12.2	87	ese			3		10							rainy.
U. S. S. Lackawanna, S. 20° 38′, W. 87° 00′*	29.98	761.5	67	19.4	79	se.			5		10		e.			sm'h	se.	cloudy.
U. S. S. Onward. Callao Peru†	30.13	765.3	64	17.8	83	se.			3		2		se.					clear.
U. S. S. Pensacola, Callao, Peru*	29.97	761.2	64	17.8	89	se.	4	1.8			2			0	0			clear.
U. S. S. Wachusetts, Tahiti Id, Society Ids*†	30.06	763.5	71	21.7	85	se.			1		2		calm			sm'h		clear.
S. S. Australia, Sydney, N. S. W.	30.62	777.7	57	13.9	94	nw.			2		2		nw.	0	0			clear.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.92	760.0	80.3	26.8	80	ese.			3		5					sm'h		d. clouds.
S. S. City of Sydney, S. 33° 48′, E. 153° 10′ *†	30.23	767.8	63	17.2	57	nnw.			2	c	3n		ese.					clear.
S. Parker M. Whitmore, S. 38° 16′, W. 102° 05′ *†	30.50	774.7	50	10.0		se.			3		8		ese.	0	0	long	se.	cloudy.
S. Storm King, S. 35° 00′, W. 85° 14′ *†	30.02	762.5				sw.			6		2		s.	sq 'lls	sq 'lls	r'gh	s.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	29.97	761.2	80	26.7	87	ese.			3		2		sse.			2	sse.	d. clouds.
U. S. S. Enterprise, Tullaer Bay, Madagascar*	30.11	764.8	75	23.9	77	w.			1		0					sm'h		clear.
U. S. S. Juniata, Colombo, Ceylon, India	29.83	757.7	84	28.9	91	wsw.			1		2		w	mod.	mod.	sm'h		clear.
S. S. Galatia, Bombay, India *†	29.60	751.8	86	30.0		wsw.			5		7		wsw.	1 h'r	1 h'r	mod.		squally.
S. S. Malabar, Bassein, India *†	29.70	754.4				sw.			4		10		sw.	13 h'r	13 h'r	sm'h		heavy rain.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 15, 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.11	764.7	77.4	25.2	87	s.			1		0			0	0	clear	Malaterre.
Algiers			30.13	765.3	73.4	23.0	59	n.			1		0			0	0	clear	Thève.
La Galle			30.04	763.1															Fonfrède.
Tunis			30.02	762.5															Jacques.
Saida			30.12	765.1															Pérès.
Tebessa			30.06	763.5	72.3	22.4	48	nw.			5		3			0	0	pretty fair	St. Martin.
Geriville					77.7	25.4	21	nw.			1		0			0	0	clear	Forfert.
Laghouat			30.07	763.7	84.2	29.0	20	e.			2		0			0	0	clear	Abraham.
Biskra			29.98	761.4	87.8	31.0	52	w.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.94	760.5	52.8	11.6	81	n.	12	5.4		6 cjck		nw.		0.070	1.8	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.82	757.4	29.91	759.7	56.0	13.3	80	nne.	12	5.4			2			0.02	0.5	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747.0	29.93	760.3	77.9	25.5	73	ne.			2		5			0.575	14.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.28	743.8	30.03	762.7	71.6	22.0	55	ne.	8.1	3.6			6			0	0		Dr. Wierzbiski
Eperies	29.16	740.7	30.00	762.1	75.9	24.4	55	n.			1	cs	7 s			0	0		Julius Mikolik.
Gratz	28.77	730.7	29.97	761.1	74.5	23.6	74	s.			2		4			0.059	1.5	lightning	Andreas Rospini.
Hermannstadt	28.63	727.3	29.98	761.5	83.1	28.4	38	nw.			3		2			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.57	725.7	29.87	758.6	67.5	19.7	82	e.			2		10			0.020	0.5	covered	The Staff.
Lemberg	29.10	739.0	30.05	763.3	70.3	21.3	54	w.			2		2			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.85	758.3	29.96	761.0	71.6	22.0	71	nw.			6		8			0	0		I. R. Hydrographic Office.
Szathmar	29.56	750.8	30.01	762.2	81.0	27.2	44	s.			3		2			0	0		Joseph Midlinszky, S. J.
Szegedin	29.67	753.7	29.94	760.4	81.0	27.2	41	s.			1		0			0	0		Karl Stancel.
Trieste	29.87	758.7	29.97	761.2	79.2	26.2	54	w.			3		8			0	0		Royal Academy.
Vienna	29.28	743.7	29.97	761.2	74.5	23.6	60	sse.			4		5			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.84	757.9	29.94	760.5	50.6	10.3	72	e.	17	7.6			6			0.120	3.0	d. clouds	W. Boswell.
Armagh, Observatory	29.77	756.1	30.01	762.2	50.0	10.0	31	nnw.	6	2.7			7					showery	S. Call.
Bidston, Liverpool Obs'y			29.89	759.2	52.6	11.4	80	nw.	15	6.7			10					overcast	John Hartnup.
Bolton, Sharples	29.32	744.7	29.85	758.2	52.9	11.6	81	ene.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.46	748.3	29.86	758.4	53.7	12.1	80	ne.			2		10			0.15	3.8	raining	McLandsborough & Preston.
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	83.0	28.3	77	ne.			2		2					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	29.77	756.1	29.88	758.9	57.6	14.2	87	nw.			0.4		10					raining	John McLaren.
Chatham, School M. E.	29.74	755.4	29.83	757.7	60.4	15.8	69	nw.			1		10					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.77	756.1	30.00	762.0	56.3	13.5	81	nw.			4		7					d. clouds	The Staff.
Fort Napier, Natal	27.74	704.6	29.97	761.2	65.0	18.3	73	e.			1		1					blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	78.0	25.6	95	ne.			1		4					raining	J. W. Smith.
Galway, Queen's College	30.02	762.5	30.05	763.3	57	13.9	69	nw.			3		3			0.06	1.5	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.94	760.5	29.99	761.7	72.0	22.2	88	e.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.71	754.6	29.92	760.0	55.0	12.8	52	nw.			2		8					squally	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.70	754.4	29.87	758.7	58.5	14.7	76	n.			1		10					raining	The Staff.
Guernsey	29.68	753.9	29.97	761.2	58.0	14.4	88	wnw.			3		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.84	757.9	29.88	758.9	59.7	15.4	78	nw.	5	2.2			10					raining	The Staff.
Leicester, Museum	29.57	751.1	29.82	757.4	53.5	11.9	90	nw.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.83	757.7	29.90	759.4	75.0	23.9	96	ne.					2					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.08	764.0	30.12	765.0	84.5	29.2	70	se.			4		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.38	746.2	29.89	759.2	53.6	12.0	88	n.			1		10					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.65	753.1	29.88	758.9	54.0	12.2	92	wnw.			2		10					raining	The Staff.
Plymouth	29.87	758.7	29.95	760.7	61.0	16.1	77	nnw.			2		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.87	758.7	29.97	761.2	52	11.1	62						3					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.91	759.7	86.8	30.4	47	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.58	751.3	29.86	758.4	51.5	10.8	96	ne.			1		10			0.77	19.6	raining	W. F. Cooper.
Silloth Rectory	29.86	758.4	29.89	759.2	59.7	15.4	56	nw.			1		7			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.88	758.9	52.2	11.2	79	ene.	2	0.9			10					overcast	W. C. Carlisle.
Truro, Royal Institution	29.95	760.7	30.04	763.0	60	15.6	60	nw.			7		3					d. clouds	W. Newcombe.
Valencia, Observatory	30.13	765.3	30.15	765.8	56.2	13.4	68	nnw.	23	10.3			5					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.52	749.8	29.91	759.7	82.4	28.0	48	s.	9.3	4.2						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.15	765.8	30.19	766.8	61	16.1	61	sw.	9	4.0		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.10	764.5	30.16	766.1	56	13.3	74	nw.	1	0.4		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.01	762.2	30.20	767.1	55.4	13.0	73	sw.			1	6 cs	4 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.08	764.0	30.13	765.3	59.5	15.3		w.			1		0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.04	763.0	30.07	763.8	54	12.2	83	nw.	8	3.6		2 cjs	2 ks	calm	calm	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	28.87	733.3	29.68	753.9	56	13.3	96	nw.	3	1.3		0	8 ks			0.14	3.6	cloudy	James Stewart.
Fredericton, N. B.	30.17	766.3	30.23	767.8	54.0	12.2	80	w.	1	0.4		0	0			0	0	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	29.12	739.6	30.23	767.8	50.0	10.0	85	calm	0	0						0	0	fine	Jas. Grant.
Halifax, N. S*	30.13	765.3	30.26	768.6	59	15.0	60	se.	2	0.9		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.78	756.4	30.17	766.3	59.7	15.4	88	ne.			1	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.91	759.7	30.25	768.3	55	12.8	74	sw.	4	1.8		8 cs	0	w.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.								sw.			3	2 c	0	sw.		0	0	blue sky	C. H. Rigby.
London, Ontario	29.31	744.5	30.21	767.3	50.7	10.4	90	calm				0	0			0	0	blue sky	E. B. Reed.
Montreal, Quebec*	30.02	762.5	30.22	767.6	58	14.4	60	sw.	14	6.3		5 cs	0	w.		0	0	fair	C. H. McLeod, C. E.
Ottawa, Ontario	29.97	761.2	30.21	767.3	56.2	13.4	80	s.				3 c	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.48	748.8	30.17	766.3	57	13.9	80	s.	6	2.7		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.47	748.5	30.20	767.1	57.2	14.0	78	calm			0	0	0			0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.51	749.5	30.21	767.3	52	11.1	93	calm	0	0		5 c	0	w.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.55	750.6	30.20	767.1	52	11.1	93	e.	4	1.8		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.84	757.9	30.19	766.8	57	13.9	83	sw.	12	5.4		5 ck	0	nw.		0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.70	754.4	30.16	766.1	49	9.4	80	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B.	30.18	766.6	30.23	767.8	57	13.9	75	sw.	1	0.4		0	0			0	0	clear	
St. John, N. B	30.07	763.8	30.23	767.8	60.0	15.6	71	sw.	3	1.3		5 c	0			0	0	d. clouds	G. Murdock, C. E.
Saint John's, N. F.	29.88	758.9	30.13	765.3	53	11.7	73	sw.			2	0	0			0.15	3.8	blue sky	J. Higgins.
St. Pierre, N. F.			30.08	764.0	51.8	11.0		nw.			6					0	0		The Commandant.
Saugeen, Ontario*	29.44	747.8	30.15	765.8	53	11.7	86	n.	14	6.3		0	0			0	0	clear	
Stratford, Ontario	28.93	734.8	30.20	767.1	54.9	12.7	59	calm	0	0		0	0			0	0	blue sky	C. J. Macgregor, M. A.
Sydney, C. B*	30.16	766.1	30.22	767.6	59	15.0	72	sw.	7	3.1		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.86	758.4	30.24	768.1	53	11.7	80	sw.	1	0.4		hz.	0			0	0	clear	Magnetic Observatory.
Windsor, N. S	30.13	765.3	30.23	767.8	55.0	12.8	80	e.	4	1.8		0	0			0	0	blue sky	Prof. W. R. Butler, M.A.
Woodstock, Ontario	29.15	740.4	30.20	767.1	57.8	14.3	66	se.	2	0.9		0	0			0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.21	767.3	30.27	768.8	55	12.8	74	calm	0	0		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CAPE COLONY.																			
Cape St. Francis Lt. House	30.19	766.8	30.22	767.6	60.0	15.6	66	w.	12.3	5.5		0	3 k			0.031	0.8	clear	John Duthie
Springbok Fontein	28.05	712.5			56	13.3	29	e.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.76	756.0	29.87	758.8	78.6	25.9	32	calm			0		5			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.79	756.6	29.82	757.3	67.3	19.6	94	ne.	11.2	5.0			10 n		ne.	0.102	2.6	raining	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.93	760.3	29.98	761.5	63.3	17.4	70	se.	13	6			9						Oversergent Fischer.
Fanoe	29.88	759.0	29.90	759.5	61.2	16.2	80	e.			2		9						Overloerer Lauridsen.
Godthaab, Greenland	29.40	746.8	29.45	747.9	44.8	7.1	88	ene.			4		10					raining	S. Kleinschmidt.
Jacobshavn, Greenland	29.72	755.0	29.77	756.2	56.5	13.6		se.			6		2						
Stykkisholm, Iceland	30.28	769.1	30.32	770.2	45.3	7.4	90	w.			4		5						A. O. Thorlacius.
Thorshavn	30.06	763.5	30.08	764.1	43.9	6.6	81	n.	18	8			6					raining	Overloerer Bergh.
Vestervig	29.82	757.5	29.91	759.8	60.6	15.9	79	w.			2		7						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.62	752.4			90.9	32.7		ne.	4.9	2.2		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.45	748.1	30.09	764.3	71.6	22	69	nnw.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.44	747.7	29.99	761.7	64.8	18.2	72				1		kn			0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.88	758.9	29.96	760.9	76.6	24.8	69	nne.			1		8		nw.	0.295	7.5	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.37	746.1	29.91	759.7	71.2	21.8	51	nw.			2	0	8 kn		wnw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.65	753.2	29.91	759.7	70.9	21.6	48	w.			3		5		wsw.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.24	742.6	29.87	758.6	72.5	22.5	63	sw.			1	5 c	0	ne.				raining	M. Gobin, Director.
Bordeaux, Observatory	29.76	755.9	30.01	762.3	70.5	21.4	63	w.			1		8		wnw.	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.40	746.8	29.93	760.2	70.7	21.5	45	w.			4		n		w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.85	758.3	30.10	764.5	62.2	16.8	73	nw.			1		9		nw.			raining	M. de Kermarée, Dir.
Caen, Normal School	29.88	759.0	29.95	760.8	65.8	18.8	59	w.			1		5		wnw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.58	751.4	29.85	758.3	72.7	22.6	73	nw.			1		8			0	0	very cloudy	M. Judot, Director.
Charleville, Normal School	29.38	746.2	29.87	758.6	76.3	24.6	54	ssw.			2		8			0	0	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.62	727.0	29.93	760.3	69.8	21.0	50	nne.			1	0	8 k			0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.08	738.6	29.90	759.5	72.5	22.5	47	ne.			2		6	n.	ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.07	738.4	29.89	759.3	70.0	21.1	50	nw.			1		n	nw.	nw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.52	698.9	29.98	761.6	67.1	19.5	54	sw.			3	0	5 k		sw.	0.689	17.5		M. Jeangirard, Director.
Gréasque, du Rhone	28.86	733.0	29.96	761.0	65.8	18.8	73	s.			2		7		s.	0.319	8.1		M. Kina, Director.
Grenoble, Normal School	29.16	740.7	29.91	759.7	68.4	20.2	68	nw.			2		kn		nw.	0.177	4.5		M. Ablard, Director.
Guéret, Normal School	28.41	721.7	29.97	761.3	68.9	20.5	67	sw.			1	0	5 k			0	0	fair	M. Delorme, Dir.
Lamballe, Normal School	29.89	759.2	30.16	766.0	62.6	17	74	nw.					k		nw.	0.12	3.		M. Ollitrault, Director.
Lescar, Normal School	29.47	748.4	30.01	762.3	72.5	22.5	60	w.			1	0	5 k			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.95	760.6	30.05	763.2	68.0	20.0	59	wnw.			2		8	calm	n.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.90	734.1	29.93	760.2	69.8	21.0	57	nw.			1	10 ck	0	n.		0.075	1.9	covered	M. André, Director.
Mans, Normal School	29.63	752.7	29.94	760.4	67.1	19.5	52	nw.			1		5		n.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.72	754.8	29.98	761.5	68.9	20.5	71	sse.			2		5		se.	0.047	1.2		M. Stephan, Director.
Montlouis	24.87	631.8	29.72	754.8	59.4	15.2	49	n.	5.6	2.5			6	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.84	757.8	29.96	760.9	68.5	20.3	87	w.			2		2		n.	0.063	1.6	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.10	739.1	29.85	758.3	69.1	20.6	76	n.			1		kn			0	0		M. Hasse, Director.
Nantes, Observatory	29.89	759.2	30.05	763.2	70.2	21.2	47	nw.			0–1	8 c	2 k			0	0	covered	M. Larocque, Director.
Perpignan, Observatory	29.87	758.7	29.98	761.5	77.7	25.4	40	n.	11.2	5.0			2			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.30	541.1			39.6	4.2		w.			1		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.86	733.1	29.89	759.3	69.4	20.8	61	n.			1		10 n		n.	0.91	23.	covered	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.19	639.8			51.6	10.9	71	w.			2	0	5 k			0.008	0.2	½ covered	M. Alluard.
Rochefort, Naval Obs'y	29.98	761.5	30.01	762.3	75.9	24.4	57	wsw.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.76	756.0	29.97	761.3	72.7	22.6	59	w.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.90	708.6	29.98	761.6	67.8	19.9		n.			1	0	1 kn			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.85	758.1	29.89	759.3	67.3	19.6	54	w.			2		2	w.		0	0	slightly cl'dy	M. Mouillot, Dir.
Saint Maur, Observatory	29.76	755.9	29.92	760.0	74.3	23.5	54	sw.			1		7		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.35	745.6	30.08	764.0	73.9	23.3	63	w.			1		5	nw.		0	0	cloudy	M. Baillard, Director.
Tours	29.78	756.3	29.95	760.8	75.9	24.4	49	w.			2		2	wsw.	w.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.44	747.7	29.93	760.2	70.2	21.2	49	nw.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.92	760.0	30.07	763.8	72.3	22.4	66	nw.	9.8	4.4		0	7 k		w.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.47	723.2	29.85	758.1	76.6	24.8	50	e.			2		7	e.		0	0		Prof. Jnedt.
Bamberg	29.04	737.6	29.88	758.9	69.8	21.0	54	se.			2	0	3 k		s.	0.039	1.0		Prof. Dr. Hoh.
Berlin	29.82	757.5	29.96	761.0	78.8	26.0	42	se.			1		6			0	0		Dr. Sensch.
Breslau	29.53	750.1	30.07	763.6	72.9	22.7	40	ese.			3		4	wnw.		0	0		Royal University Obs'y.
Carlsruhe	29.43	747.4	29.87	758.6	73.6	23.1	52	ne.			1		9	ne.		0.610	15.5		Albert Senz.
Cassel	29.17	740.9	29.88	759.0	75.6	24.2	42	s.			1		8	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.85	758.1	76.1	24.5	56	ne.			1		6			0	0		Physical Society.
Friedrichshafen	28.51	724.2	29.87	758.8	70.9	21.6	67	wsw.			1		8	sw.		0.764	19.4		Wilhelm, Chief Tel.
Hamburg	29.84	758.0	29.93	760.3	72.0	22.2	60	sse.			5		2	sw.		0	0		E. Preller.
Kiel	29.90	759.5	29.92	759.9	67.3	19.6	58	se.			1		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.52	749.9	29.93	760.1	77.7	25.4	39	ese.			3		7	se.		0	0		H. Leppig, Asst.
Magdeburg	29.74	755.3	29.92	759.9	73.9	23.3	47	e.			1		5	sse.		0	0		Weather Observatory
Memel	30.05	763.2	30.10	764.4	59.9	15.5	74	wnw.			4	0	1 k						Issermann.
Munich	28.10	713.7	29.96	760.9	66.4	19.1	71	e.			1		9	w.		0	0		Central Station.
Neufahrwasser	30.08	763.9	30.09	764.3	63.5	17.5	71	e.			1		7			0	0		A. Lothes.
Neustadt, Palatinate	29.33	744.9	29.85	758.2	76.6	24.8	50	calm			0		6			0.024	0.6		Dicknether.
Stuttgart	28.92	734.6	29.78	756.3	72.9	22.7	60	n.			1		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.97	761.2	30.00	761.9	71.4	21.9	40	ese.			2	0	8 k		s.	0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.59	751.5	29.95	760.8	86.7	30.4		ne.			2.5		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.40	746.6	29.44	747.9	90.1	32.3	70	wsw.	26.0	11.6			3		wsw.	0	0	d. clouds	
Deesa	28.96	735.7	29.42	747.1	99.2	37.3	35	sw.	15.0	6.7			6	sw.		0.02	0.5	d. clouds	
Bombay	29.60	751.8	29.64	752.7	85.8	29.9	81	wsw.	19.0	8.5			10		w.	0.09	2.3	overcast	
Poona, Yarrowda	27.80	706.1	29.63	752.7	81.2	27.3	63	wsw.	27.0	12.1			8			0	0	d. clouds	
Trichinopoly	29.42	747.4	29.70	754.3	93.6	34.2	69	w.	1.0	0.4			5	nne.	nne.	0	0	d. clouds	
Belgaum	27.17	690.1	29.73	755.1	69.3	20.7	93	wsw.	9.0	4.0			10	w.		0.54	13.7	d. clouds	
Lahore	28.66	727.9	29.36	745.9	96.7	35.9	41	e.	4.0	1.8			4			0	0	d. clouds	
Roorkee	28.48	723.3	29.34	745.2	92.8	33.8	42	n.	1.0	0.4			8	n.		0	0		
Agra	28.83	732.2	29.37	746.0	92.2	33.4	55	ne.	4.0	1.8			9		ne.	0.13	3.3	d. clouds	
Nagpur	28.52	724.4	29.56	750.8	78.5	25.8	89	calm	0	0			10		nw	3.49	88.6	overcast	
Jubbulpore	28.16	715.3	29.52	749.8	73.8	23.2	93	calm	0	0			10		nw.	1.60	40.6	raining	
Lucknow	29.02	737.2	29.38	746.4	95.0	35.0	49	ene.	4.0	1.8			6		e.	0	0	d. clouds	
Allahabad	29.11	739.4	29.42	747.1	86.0	30.0	75	ne.	4.0	1.8			8		e.	0.37	9.4	d. clouds	
Patna	29.18	741.3	29.37	745.9	80.6	27.0	93	e.	9.1	4.1			10	e.	e.	1.23	31.2	drizzling	
Hazaribagh	27.42	696.4	29.40	746.9	76.0	24.4	93	sw.	8.0	3.6			10			2.12	53.8	thund'r st'm	
Cuttack	29.38	746.2	29.46	748.3	85.7	29.8	78	nnw.	1.0	0.4			7		nnw.	0	0	d. clouds	
Calcutta, Alipore	29.42	747.4	29.44	747.9	85.7	29.8	80	ssw.	7.5	3.4			9		s.	0.02	0.5	d. clouds	
Dhubri	29.38	746.2	29.50	749.2	81.7	27.6	89	e.	13.2	5.9			10			1.27	32.3	overcast	
Chittagong	29.52	749.9	29.62	752.2	76.1	24.5	94	se.	8.3	3.7			10			1.17	29.7	raining	
Sibsagar	29.25	743.0	29.58	751.3	84.2	29.0	78	se.	2.0	0.9			10	w.	w.	0.90	22.9	d. clouds	
Jeypore	28.04	712.2	29.46	748.2	82.3	27.9	77	nne.	6.2	2.8			10	ne.	ne.	1.95	49.5	overcast	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.01	762.3	30.03	762.8	82.7	28.2	65	sw.	8.0	3.6			4	se.		0	0	d. clouds	
Bellary	28.19	716.0			88.2	31.2	44	w.	14	6.3		1 ck	6			0	0	gloomy	
ITALIAN.																			
Udine	29.58	751.3	29.98	761.4	74.1	23.4	70	w.	4.3	1.9			9			0.055	1.4		Prof. Giovanni Clodig.
Milan	29.49	749.1	30.00	762.0	64.0	17.8	87	ne.	8.7	3.9			10	se.		0.783	19.9		Prof. G. V. Schiapparelli.
Padua	29.89	759.1	29.99	761.8	67.8	19.9	72	w.	3.1	1.4			10	s.		0.189	4.8		Prof. Dott. Lorenzoni.
Moncalieri	29.08	738.5	29.96	761.0	67.3	19.6	68	n.	4.3	1.9			10	ne.		0.335	8.5		Prof. F. F. Denza.
Genoa	29.79	756.7	29.98	761.5	69.3	20.7	69	se.	9.4	4.2			8	s.		0.264	6.7		Prof. G. M. Garibaldi.
Mondovi	28.10	713.8	29.99	761.7	61.5	16.4	72	wnw.			4		9			0.358	9.1		Prof. D. C. Bruno.
Pesaro	29.96	760.9	30.00	762.1	69.4	20.8	62	ne.	4.9	2.2			10			0.276	7.0		Prof. Luigi Guidi.
Florence	29.74	755.5	30.00	761.9	68.4	20.2	72	e.			2		10	s.		0.457	11.6		Prof. Costantino Pittei.
Leghorn	29.84	758.0	29.93	760.1	68.0	20.0	81	sw.	3.1	1.4			10	s.		0.047	1.2		Prof. P. Monte.
Rome	29.82	757.5	29.99	761.8	65.7	18.7	81	calm	0	0			10	s.		0.374	9.5		Prof. P. Tacchini.
Lecce	29.65	753.1	29.89	759.2	91.0	32.8	21	nne.	9.4	4.2			1	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.03	737.4	29.88	758.9	85.6	29.8	67	ese.	4.3	1.9			4	se.		0	0		Prof. D. Conti.
Cagliari	29.74	755.3	29.93	760.1	73.9	23.3	37	nw.			2		6			0.197	5.0		Prof. A. Pacinotti.
Palermo	29.69	754.2	29.94	760.4	69.8	21.0	76	ne.	8.1	3.6			10	ne.		0.028	0.7		Prof. G. Cacciatore.
Syracuse	29.87	758.7	29.91	759.8	82.2	27.9	70	e	4.9	2.2			6	sw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.44	747.8	29.95	760.7	71.1	21.7	73	w.	6.9	3.1			10	sw.		0.004	0.1		Prof. F. Brioschi.
Stelvio	22.24	565.0			44.8	7.1	82	sw.			2		10			0.154	3.9	covered	Prof. P. F. Denza.
Valdobbia	22.24	565.0			43.2	6.2	72	e.			4		10			0.256	6.5	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	30.02	762.6	30.05	763.5	62.7	17.1	84	calm			0	3 c	0	w.		0	0	fair	H. Hattori.
Awomori	29.94	760.5	29.98	761.5	65.0	18.3	63	sw.	8.1	3.6		3 c;cs	0			0	0	fair	K. Ogawa.
Hamamatsu	30.10	764.5	30.13	765.2	65.7	18.7	82	calm			0	0	0			0	0	clear	Y. Sekigawa.
Kanazawa	29.95	760.7	30.05	763.2	70.0	21.1	78	n.	0.9	0.4		0	0			0	0	clear	S. Endo.
Kagoshima	30.00	761.9	30.01	762.2	67.5	19.7	91	ne.			4		10 n		e.	0.004	0.1	light rain	G. Miyanohara.
Kioto	29.91	759.8	30.09	764.2	69.8	20.9	76	se.	3.0	1.3		0	0			0	0	clear	M. Tojima.
Kochi	30.10	764.7	30.13	765.2	70.9	21.6	76	nw.	1.2	0.5			1cs;ck		s.	0	0	overcast	K. Kusunose.
Miasaka	30.05	763.3	30.08	764.0	68.0	20.6	97	ne.			2		10 n		e.	0.449	11.4	raining	K. Masusaki.
Miyako	29.90	759.3	30.00	762.1	57.3	14.1	91	wsw.	0.8	0.4		0	0			0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.78	756.4	29.97	761.2	75.1	23.9	58	e.	4.2	1.9		1 c	0	se.		0	0	clear	S. Takehayashi.
Niigata	30.02	762.5	30.05	763.3	64.2	17.9	74	ne.	1.5	0.6		0	0			0	0	clear	M. Morita.
Nobiru	30.00	762.1	30.02	762.5	66.1	18.9	90	se.	11.8	5.3		0	0			0	0	clear	H. Midzushina.
Numazu	30.09	764.3	30.13	765.2	69.1	20.6	75	w.			1	5 ck	5 s	w.	w.	0	0	cloudy	R. Kaneda.
Osaka	30.07	763.9	30.09	764.3	69.7	20.9	79	nw.	9.6	4.3		0	0			0	0	clear	H. Omura.
Sakai	30.01	762.2	30.02	762.4	70.1	21.2	75	calm			0	0	0			0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	30.02	762.4	30.09	764.3	66.9	19.4	86	s.	7.7	3.4		0	0			0	0	clear	The Staff.
Wakayama	30.04	763.1	30.09	764.4	70.2	21.2	70	s.	6.4	2.9		0	0			0	0	clear	K. Sakai.
Shimonoseki	29.88	758.8	30.02	762.5	70.7	21.5	64	e.			4	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.94	760.5	30.13	765.3	73.5	23.1	62	ese.	14.5	6.5		0	9 ks;k			0	0	cloudy	The Staff.
MEXICAN.																			
Guanajuato	23.72	602.4	29.94	760.4	59.0	15.0	79	ene.	7.4	3.3		0	0			0.673	17.1	clear	Prof. Vicente Fernandez.
Leon	24.35	618.5	29.99	761.7	61.3	16.3	83	sw.	0.9	0.4		3 c	0			0.005	0.1	clear	Prof. M. Leal.
Mazatlan	29.68	753.9	29.94	760.4	78.0	25.6	60	nne.	0.9	0.4		0	4 n		e.	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					71	21.7	90	se.	13.3	5.9		0	2 ck		se.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.84	758.0	29.84	758.0	71.1	21.7		w.			3					0	0		
Groningen	29.78	756.5	29.84	757.9	67.8	19.9		ese.			1					0.130	3.3		
Helder	29.82	757.4	29.82	757.4	64.4	18.0		wsw.			2					0.075	1.9		
Hellevoetsluis	29.85	758.1	29.85	758.1	73.8	23.2	59	sw.			2					0	0		
Utrecht	29.80	756.8	29.84	758.0	71.8	22.1	62	sse.			2		5			0.008	0.2	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.83	757.6			81.1	27.3	77	ene.	0.5	0.2			2			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.87	758.6	29.93	760.2	53.2	11.8	47	wnw.	9	4			4			0.157	4.0		
Brono	29.84	757.9	29.88	758.9	51.3	10.7	69	sw.			4		3			0.098	2.5		
Christiania	29.70	754.4	29.84	758.0	66.9	19.4	20	s.	11	5			4			0	0		
Gjæsvær	29.75	755.7	29.78	756.3	45.3	7.4		wsw.			7		10						
Lodingen	29.80	756.8	29.84	758.0	52.6	10.9	77	sw.	7	3			2			0.193	4.9		
PORTUGUESE.																			
Angra, Azores	29.82	757.3	29.97	761.3	64.0	17.8	94	se.	9.4	4.2			8			0.220	5.6		Dr. J. A. Sampaio.
Campo Major	29.03	737.4	29.98	761.6	82.2	27.9	33	nnw.	4.3	1.9			5			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.02	762.5	30.11	764.7	69.4	20.8	71	sw.	8.1	3.6			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.4	30.02	762.6	77.4	25.2	42	ssw.	3.1	1.4			6	wsw.		0	0		The Staff.
Ponta Delgada, Azores	29.94	760.5	30.01	762.3	67.6	19.8	83	se.	1.3	0.6			10			0	0		
Saint Paul de Loanda	29.84	757.8	30.04	763.0	74.1	23.4	88	sw.			2		10			0	0		
San Salvador	28.15	715.1	29.98	761.6	79.0	26.1	56	s.			3		7			0	0		
Serra da Estrella	25.38	644.6	30.00	762.1	59.7	15.4	52	n.	4.3	1.9			4			0	0		
RUSSIAN.																			
Akmolinski	28.98	736.0	30.02	762.5	68.5	20.3	29	calm	0	0		2 c	0			0	0		Major K. Lasarew.
Archangel	29.85	758.2	29.87	758.7	71.2	21.8	44	se.	2	1		0	3 ks			0	0		Capt. Sseliwerstow
Ashurada	29.91	759.6	29.81	757.2	82.4	28.0	74	wnw.	9	4		0	1 k			0	0		
Astrakhan	29.89	759.2	29.81	757.1	91.9	33.3	28	ssw.	11	5		0	5 k			0	0		Capt. Wisganow.
Baku	29.88	758.9	29.83	757.7	81.7	27.0	41	n.	31	14		0	5 ks			0	0		
Barnaul	29.52	749.8	30.01	762.2	63.0	17.2	28	nw.	4	2			7			0	0		Meteorological Obs'y
Bielosersk	29.43	747.4	29.87	758.7	72.0	22.2	62	nw.	0	0		0	4 ks			blank	blank		
Dorpat	29.68	753.9	29.91	759.7	72.7	22.6	48	wsw.	7	3		0	4k			0	0		Observatory.
Ekaterinburg	28.92	734.6	29.84	757.9	73.2	22.9	59	wsw.	9	4		0	8			0.004	0.1	hazy	Meteorological Obs'y
Elissawetgrad	29.52	749.8	29.95	760.7	73.9	23.3	56	wnw.	13	6		0	6 k			0	0		
Irkutsk	28.23	717.0	29.82	757.4	61.5	16.4	52	calm			0		8			blank	blank		
Kasalinsk	29.51	749.5	29.69	754.0	93.9	34.4	25	n.	4	2		0	0						
Kasan	29.52	749.9	29.78	756.3	81.0	27.2	38	e.	2	1		0	8 k			blank	blank		Observatory.
Kem	29.80	756.8	29.85	758.1	71.4	21.9	40	sw.	18	8		0	2 k			0	0		
Kertch	29.84	758.0	29.87	758.6	77.7	25.4	71	calm	0	0		0	7 n			0	0		Lagorio & Sastyrez.
Kieff	29.29	744.0	29.89	759.3	76.1	24.5	50	nnw.	2	1		0	5 k;ks			0	0		Observatory.
Koslov	29.29	744.0	29.82	757.3	64.6	18.1	83	w.	9	4			10 s;n			0	0		
Libau	30.00	762.1	30.03	762.7	59.5	15.3	71	wsw.	9	4			1			0	0		E. Quaas.
Lugan	29.57	751.1	29.74	755.5	84.0	28.9	42	sw.	4	2			8			0.252	6.4		Meteorological Obs'y.
Moscow	29.29	744.0	29.74	755.5	66.0	18.9	86	n.	4	2		0	8 ks			0.252	6.4		Meteorological Obs'y
Nikolaiev	29.91	759.7	29.98	761.6	79.3	26.3	59	nnw.	13	6		0	2 k			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.40	746.8	29.49	749.0	58.5	14.7	67	w.	4	2			10			0	0		Iwanow.
Pekin, China	29.66	753.4	29.80	757.0	84.2	29.0	40	s.	2.2	1.0		0	5 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.49	749.1	29.82	757.4	93.9	34.4	6	n.	1.1	0.5			0			0	0		
Petrozavodsk	29.67	753.5	29.85	758.3	71.6	22.0	51	sse.	11	5		0	5 ks			0	0		Dr. Bergmann.
Pinsk	29.55	750.5	30.03	762.7	71.1	21.7	52	w.	11	5		0	5 k			0.126	3.2		
Poti	29.89	759.3	29.93	760.1	77.5	25.3	83	nw.	4	2		0	5 s			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
St. Petersburg	29.87	758.6	29.89	759.2	72.9	22.7	40	nnw.	9	4		0	6 kn			0	0		Central Physical Obs'y.
Samarkand	27.41	696.1	29.71	754.6	85.6	29.8	23	ne.	3.4	1.5		0	0			0	0		
Semipalatinsk	29.49	749.0	30.13	765.4	63.1	17.3	22	ne.	4	2			3			0	0		Major Lasarew
Sevastopol	29.73	755.2	29.95	760.7	77.9	25.5	71	wnw.	16	7		0	1 ks			0	0		
Staroi Bykhov	29.50	749.4	29.94	760.5	75.0	23.9	54	ne.	11	5		0	8kn			0.362	9.2		
Tashkend	28.14	714.8	29.68	753.9	90.0	32.2	26	calm	0	0		0	0			0	0		Terch, A. al.
Tiflis	28.47	723.1	29.80	756.8	88.5	31.4	28	e.	4	2		0	3 s			0	0		Physical Observatory.
Vernoe	27.47	697.7	29.89	759.1	67.6	19.8	38	ne.	7	3		0	2 k			0.016	0.4		
Viatka	29.31	744.4	29.91	759.7	77.7	25.4	52	sw.	4	2			4			0	0		
Warsaw	29.65	753.2	30.07	763.7	68.4	20.2	43	w.	2	1		0	1 s			0	0		Astronomical Obs'y.
Yeniseisk	29.81	757.2	30.10	764.6	47.8	8.8	49	ne.	4	2			6			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.03	762.7	51	10.6	93	n.			6	5	5	n.		0	0	d. clouds	J. Youngclause.
North Unst			29.95	760.7				nw.			3	2	3	nw.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.94	760.4	30.04	763.1	73.9	23.3	62	sw.	2.9	1.3		0	2			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.02	762.4	30.08	763.9	74.8	23.8	56	nw.	2.5	1.1		2	0	se.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.13	689.0	30.01	762.2	68.0	20.0	61	ne.	4.3	1.9		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.82	706.7	29.97	761.3	74.5	23.6	33	sw.	6.9	3.1		0	1			0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.89	759.2	30.02	762.5	81.3	27.4	49	sse.	3.1	1.4		6	2	wnw.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.35	745.4	30.11	764.7	59.0	15.0	94	n.	6.5	2.9		10 n	8 n	n.	n.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.11	739.3	29.96	761.0	79.9	26.6	52	calm	0	0			3			0	0		R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.95	760.8	30.02	762.4	78.8	26.0	81	se.	14.5	6.5		7 ck;k	2k;ks	ne.	s;ne	0.12	3.0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.81	757.2	29.87	758.7	83.2	28.4	76	sw.	8.8	3.9		7 c	2 ks			0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.2	30.03	762.6	79.3	26.3	34	e.	20.4	9.1		0	1		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.7	30.04	763.0	82.0	27.8	86	se.	6.7	3.0		2 s	3 k	se.	se.	0	0		Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.83	757.7	29.87	758.7	57.9	14.4	61	se.			4		10			0	0		
Umea	29.78	756.4	29.83	757.7	61.2	16.2	61	sw.			2		5			0	0		
Hernosand	29.76	755.8	29.81	757.1	64.0	17.8	67	se.			2		5			0.110	2.8		
Stockholm	29.70	754.4	29.88	758.9	66.6	19.2	42	w.			2		6			0	0		
Wisby	29.87	758.7	29.93	760.2	62.2	16.8	61	wsw.			4		0			0	0		
Sub-series.																			
Upsala	29.74	755.5	29.83	757.7	65.1	18.4	49	sw	12.3	5.5			4			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.52	724.5	29.91	759.8	65.5	18.6	80	ssw.			2		10					raining.	The Observatory.
TURKISH.																			
Constantinople			30.02	762.6	80.2	26.8	52	ne.	14	6.5			3		ne.	0	0		The Observatory.
Valona			30.09?	764.2?	84.4	29.1		s.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.78	756.5	82.9	28.3	66	sw.			2		1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.90	683.2			77	25.0	50									0	0	clear	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.24	768.1	30.32	770.1	62.8	17.1	69	sw.	4	1.8		6 c	0	w.		0	0	fair	J. O. Barnes.
Alpena, Michigan	29.46	748.3	30.11	764.8	56	13.3	69	sw.	1	0.4		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.99	634.7	29.74	755.4	40	4.4	54	ne.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.08	687.8	29.87	758.7	46	7.8	63	sw.	12	5.4		0	0			inap.	inap.	clear	B. O. Lenoir.
Atlanta, Georgia	29.00	736.6	30.15	765.8	71.0	21.7	90	nw.	6	2.7		0	8 k		nw.	0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.28	769.1	30.29	769.4	62	16.7	60	n.	4	1.8		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.00	762.0	30.19	766.8	72.0	22.2	79	e.	8	3.6			10 s		s.	1.05	26.7	cloudy	John Healy.
Baltimore, Maryland	30.26	768.6	30.31	769.9	66	18.9	58	e.	2	0.9		0	sk.			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.27	768.8	30.29	769.4	65.0	18.3	68	n.	6	2.7		0	0			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.64	752.8	29.66	753.4	37.4	3.0	94	e.	2	0.9			fg.			inap.	inap.	dense fog	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.12	714.2	29.66	753.4	61.0	16.1	87	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.14	689.3	29.91	759.7	65	18.3	73	calm	0	0		0	0			0.40	10.2	clear	S. Wheaton.
Billings, Montana	26.69	677.9	29.83	757.7	48	8.9	66	calm	0	0		0	5 ks		n.	0.17	4.3	fair	T. Gibson.
Bismarck, Dakota	27.90	708.6	29.66	753.4	62	16.7	84	ne.	16	7.2		1 cs	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.26	768.6	30.29	769.4	62	16.7	78	sw.	3	1.3		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.20	690.9	29.98	761.5	46	7.8	77	nw.	4	1.8		2 k	0			0.01	0.3	clear	J. Kenealy.
Boston, Massachusetts	30.14	765.5	30.29	769.4	63.0	17.2	59	nw.	5	2.2		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	79.0	26.1	90	s.	2	0.9		2 c	0			0	0	clear	E. C. Imlay.
Buffalo, New York	29.48	748.8	30.22	767.6	58.2	14.6	66	se.	4	1.8		5 cs	3 ks	sw.	sw.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota	27.84	707.1	29.80	756.9	56	13.3	80	w.	10	4.5		6 c	2 s	w.	w.	0.02	0.5	cloudy	A. Schneider.
Burlington, Vermont	29.98	761.5	30.27	768.8	61.0	16.1	65	s.	4	1.8		0	0			0	0	clear	D. N. Farnell.
Cairo, Illinois	29.71	754.6	30.10	764.5	69.7	20.9	58	s.	5	2.2		0	0			0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.26	768.6	30.28	769.1	64.0	17.8	68	ne.	20	8.9		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.27	768.8	30.30	769.6	61.0	16.1	78	e.	2	0.9		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.26	743.2	29.94	760.5	47	8.3	100	nw.			2		fg.		nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	78	25.6	90	ne.	5	2.2		0	9 k		ne.	0.18	4.6	cloudy	G. W. Davis.
Charleston, S. Carolina	30.08	764.0	30.13	765.3	72	22.2	84	ne.	16	7.2			10 s		ne.	0.56	14.2	threatening	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.20	767.1	65.4	18.6	82	ne.	9	4.0			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.34	745.2	30.15	765.8	67.0	19.4	84	ne.	2	0.9		2 k	4 ks	se.	se.	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	29.76	755.9	44.1	6.7	86	nw.	6	2.7		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.37	746.0	30.06	763.5	63.5	17.5	55	s.	5	2.2		2 c;hz	0			0	0	fair	John Laurens.
Chincoteague, Virginia	30.27	768.8	30.29	769.4	64	17.8	73	e.	7	3.1		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.51	749.5	30.16	766.1	63.0	17.2	73	ne.	1	0.4		0	fg.			0	0	clear	L. Dunne.
Cleveland, Ohio	29.44	747.8	30.18	766.6	60	15.6	62	se.	7	3.1		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.17	715.5	29.92	760.0	74	23.3	76	se.	4	1.8		2 ck	0			0.01	0.3	clear	T. J. Kenan.
Columbus, Ohio	29.32	744.7	30.16	766.1	61	16.1	60	ne.	1	0.4		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.02	711.7	29.89	759.2	75.2	24.0	64	s.	16	7.2		5 cs	0			0	0	fair	J. McGlone.
Davenport, Iowa	29.32	744.7	29.96	761.0	62	16.7	84	se.	3	1.3			10 s		sw.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	29.81	757.2	68	20.0	59	sw.	3	1.3		0	0			inap.	inap.	clear	J. Williams.
Dayton, Washington T'y	28.30	718.8	30.04	763.0	52	11.1	72	sw.	4	1.8		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.29	642.4	29.73	755.1	57	13.9	72	s.	1	0.4		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.28	769.1	30.30	769.6	62	16.7	84	ne.	4	1.8		0	0			0	0	clear	T. S. Townsend.
Denver, Colorado	24.69	627.1	29.73	755.1	55.0	12.8	77	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.04	737.6	29.92	760.0	63	17.2	93	se.	6	2.7			10 n		se.	0.70	17.8	thund'r st'm	F. W. Conrad.
Detroit, Michigan	29.47	748.5	30.16	766.1	61.0	16.1	78	calm	0	0		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.23	691.6	29.74	755.4	67	19.4	66	w.	24	10.7		0	0			0	0	clear	D. J. Carr.
Dubuque, Iowa	29.30	744.2	29.98	761.5	62	16.7	68	s.	2	0.9			10 s		s	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.12	739.6	29.85	758.2	58	14.4	75	calm	0	0			10 s		sw.	0.05	1.3	cloudy	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho	25.23	640.8	29.82	757.4	38	3.3	66	s.	18	8.0		0	2 s		sw.	0.01	0.3	clear	H. R. Boynton.
Eastport, Maine	30.17	766.3	30.24	768.1	65.0	18.3	54	s.	1	0.4		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.15	689.6	29.82	757.4	63	17.2	63	s.	8	3.6		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.24	666.5	29.83	757.7	70.0	21.1	59	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.59	749.3	30.22	767.6	61	16.1	62	se.	7	3.1		4 c	0	w.		0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.36	745.7	30.01	762.2	60.0	15.6	70	s.	9	4.0		4 cs	0	s.		0	0	fair	George Heathcote.
Galveston, Texas	30.00	762.0	30.04	763.0	83	28.3	74	s.	5	2.2		0	5 ks		se.	0	0	fair	E. O'C. Macluerney.
Grand Haven, Michigan	29.45	748.0	30.10	764.5	62.0	16.7	56	s.	7	3.1		3 ck	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	25.22	640.6	29.76	755.9	61.9	16.6	56	e.	8	3.6		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	30.17	766.3	30.19	766.8	68	20.0	84	ne.	16	8.0			10 k		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.80	655.3	29.92	760.0	52	11.1	61	sw.	3	1.3		0	0			0.11	2.8	clear	H. W. Dodge.

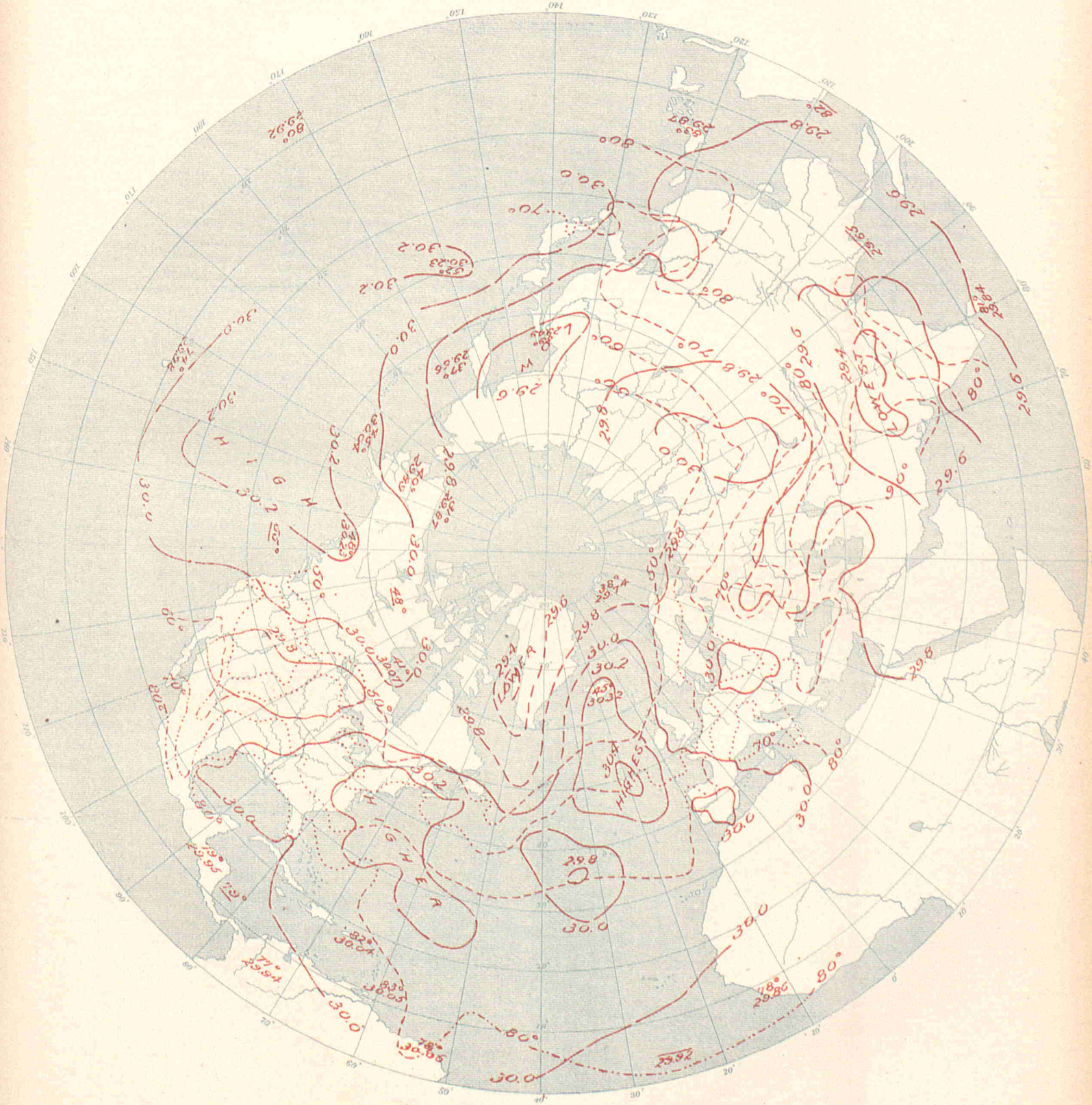
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.34	719.8	29.68	753.9	65.1	18.4	74	se.	11	4.9		2 k	0	s.		0.02	0.5	clear	S. W. Glenn.
Indianapolis, Indiana	29.33	745.0	30.11	764.8	63.0	17.2	52	se.	1	0.4		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.98	761.5	30.01	762.2	80.3	26.8	89	se.	8	3.6		0	0			inap.	inap.	clear	I. A. Reed.
Jacksonville Florida	30.04	763.0	30.08	764.0	80.0	26.7	88	nw.	1	0.4		3 cs	0			1.07	27.2	clear	J. W. Smith.
Keogh, Fort, Montana	27.39	695.7	29.82	757.4	54	12.2	86	w.	8	3.6		2 cs	2 ks			0	0	fair	W. B. Lamar.
Keokuk, Iowa	29.31	744.5	29.95	760.7	63.0	17.2	90	se.	14	6.3			10 ks		w.	0	0	threatening.	F. Z. Gosewisch.
Key West, Florida	29.97	761.2	29.99	761.7	81.0	27.2	82	se.	4	1.8		0	6 ks		se.	0.70	17.8	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.24	768.1	30.26	768.6	66	18.9	73	ne.	16	7.2		3 cs;k	0	ne.		0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.15	740.4	30.16	766.1	66.3	19.1	84	n.	3	1.3		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.84	757.9	63	17.2	68	se.	16	7.2			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.08	738.6	29.95	760.7	63	17.2	93	n.	5	2.2			10 n		w.	0.46	11.7	thund'r st'm	A. W. Browne.
Lewiston, Idaho	29.19	741.4	30.01	762.2	53.0	11.7	72	calm	0	0		3 k	0	e.		0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.69	754.1	30.00	762.0	73	22.8	90	calm	0	0			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.58	751.3	29.97	761.2	60	15.6	93	calm	0	0			10 s		w.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.55	750.0	30.10	764.5	61	16.1	78	ne.	3	1.3		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.59	751.6	30.26	768.6	66	18.9	63	ne.	2	0.9		3 ck	0	n.		0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.40	746.7	30.04	763.0	64.0	17.8	58	s.	8	3.6		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.18	766.6	30.18	766.6	67.0	19.4	93	ne.	15	6.7		0	9 s		ne.	0.03	0.8	cloudy	William Daly.
Maginnis, Fort, Montana	25.54	648.7	29.87	758.7	50	10.0	48	w.	11	4.9		0	0			inap	inap.	clear	F. Burke.
Marquette, Michigan	29.24	742.7	29.96	761.0	65	18.3	58	sw.	12	5.4		6 c	0	sw.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.73	755.1	30.06	763.5	71	21.7	90	calm	0	0			10 s		s.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.32	744.7	30.06	763.5	58	14.4	75	s.	4	1.8			10 s			0	0	cloudy	W. Line.
Missoula, Fort, Montana	26.74	679.2	30.00	762.0	55	12.8	64	ne.	2	0.9		0	5 s			0.05	1.3	fair	J. H. Young.
Mobile, Alabama	30.03	762.7	30.07	763.8	78.7	25.9	83	n.	4	1.8		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	29.81	757.2	30.04	763.0	76.2	24.6	79	calm	0	0		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.73	729.7	29.70	754.4	62	16.7	84	s.	12	5.4			10 s		s.	0.05	1.3	cloudy	H. White.
Mt. Washington, N. H.	24.09	611.9	30.21	767.3	38.5	3.6	67	nw.	22	9.8		1 c	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.10	764.5	64.0	17.8	84	e.	4	1.8		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.17	766.3	30.28	769.1	61	16.1	65	nw.	4	1.8		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.26	768.6	30.31	769.9	65	18.3	54	n.	2	0.9		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.04	763.0	82.5	28.1	81	n.	2	0.9		0	0			0	0	clear	M. Herman.
New York, New York	30.14	765.5	30.31	769.9	66	18.9	59	calm	0	0		0	0			0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.24	768.1	30.27	768.8	68.2	20.1	66	e.	8	3.6		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	26.88	682.7	29.68	753.9	61.6	16.4	82	calm	0	0		0	4 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y.	30.12	765.0	30.16	766.1	44.0	6.7	68	n.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.63	727.2	29.77	756.1	64.5	18.1	92	se.	6	2.7			10 n		s	1.80	45.7	thnd'r storm	A. Pollak.
Ooglaamie, Alaska	29.85	758.2	29.87	758.7	30.9	— 0.6	100	ene.	8	3.6		3 k	6 s		ene.	inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.92	760.0	30.24	768.1	58.0	14.4	74	s.	8	3.6		8 cs	0	w.		0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.50	749.3	30.04	760.0	77.0	25.0	90	s.	12	5.4			10 s		sw.	0	0	cloudy	J. W. Byram.
Pensacola, Florida	30.02	762.5	30.05	763.3	80.7	27.1	80	se.	2	0.9		0	0			0.54	13.7	clear	M. McGauran.
Philadelphia, Pa	30.21	767.3	30.31	769.9	64.5	18.1	84	nw.	4	1.8		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.90	454.7	29.72	754.9	25	— 3.9	73	sw.	30	13.4		0	0			0	0	clear	H. Hall.
Ploche, Nevada	23.99	609.3	29.79	756.7	39.0	3.9	87	n.	14	6.3		3 k	5 s	sw.	sw.	0	0	cloudy	F. R. Day.
Pittsburg, Pennsylvania	29.44	747.8	30.23	767.8	54.0	12.2	83	n.	2	0.9		0	0			0	0	clear	W. A. Reid.
Poplar River, Montana	27.74	704.6	29.84	757.9				w.			4	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.46	748.3	30.13	765.3	55.0	12.8	74	s.	3	1.3		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.23	767.8	30.28	769.1	63.0	17.2	56	sw.	2	0.9		0	hz.			0	0	clear	W. W. Eichelberger
Portland, Oregon	30.04	763.0	30.11	764.8	53.4	11.9	80	calm	0	0		0	4 s		nw.	0	0	fair	M. L. Hearne.
Portsmouth, N. C.					70	21.1	79	ne.	18	8.0		6 cs	4 k	nw.	ne.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.66	626.4	29.68	753.9	53.5	11.9	46	s.	1	0.4		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.25	768.3	30.28	769.1	64	17.8	60	n.	5	2.2		0	0			0	0	clear	O. N. Kitchel.
Punta Rassa, Florida	29.99	761.7	30.00	762.0	79	26.1	82	e.	6	2.7		2 ck	1 k			0.60	15.2	clear	W. J. Evans.
Red Bluff, California	29.57	751.1	29.92	760.0	64	17.8	58	n.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York	29.59	751.6	30.24	768.1	57	13.9	72	sw.	6	2.7		8 c	hz.	sw.		0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.55	750.6	30.10	764.5	48	8.9	86	ne.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.82	757.4	29.89	759.2	58.0	14.4	80	sw.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.44	747.8	30.03	762.7	64.3	17.9	81	se.	10	4.5		1 cs	9ks;s		s.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.85	758.2	29.89	759.2	40	4.4	89	s.	14	6.3			10 n			0.43	10.9	light rain	A. P. Leavitt.
St. Paul, Minnesota	28.94	735.1	29.78	756.4	63.0	17.2	84	s.	13	5.8			10 s		s.	0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	28.82	732.0	29.67	753.6	60	15.6	87	se.	6	2.7			8 s			0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.56	649.2	29.78	756.4	55	12.8	80	calm	0	0			10 n			0.29	7.4	light rain	J. Craig.
San Antonio, Texas	29.31	744.5	29.99	761.7	78	25.6	88	se.	3	1.3		0	0			0	0	clear	J. H. Davis.
San Diego, California	29.85	758.2	29.92	760.0	63.2	17.3	70	w.	6	2.7			10 s		sw.	0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.27	768.8	30.30	769.6	62.0	16.7	72	nw.	4	1.8		hz.	hz.			0	0	light haze	B. A. Blundon.
Sanford, Florida	30.00	762.0			80.0	26.7	85	ne.	1	0.4		2 c	5 ks			0.24	6.1	fair	J. B. Marbury.
San Francisco, California	29.87	758.7	29.94	760.5	55	12.8	86	sw.	7	3.1			4s;fg		s;sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.24	590.3	29.75	755.6	55	12.8	25	e	2	0.9		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.13	765.3	74.5	23.6	88	ne.	8	3.6			10 ks		ne.	0.79	20.1	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.31	668.3	29.88	758.9	47	8.3	77	w.	1	0.4		0	0			0.43	10.9	clear	A. L. Mathews.
Shreveport, Louisiana	29.78	756.4	30.01	762.2	77.5	25.3	87	se.	3	1.3		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.67	728.2	29.87	758.7	72	22.2	76	s.	18	8.0		4 ck	0	s.		0	0	fair	W. M. Mattingly.
Sitka, Alaska	30.17	766.3	30.23	767.8	47.5	8.6	86	w.	3	1.3			10 n		w.	0.99	25.1	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.47	748.5	29.93	760.2	74.5	23.6	90	e.	5	3.6		3 c	0	sw.		0	0	clear	J. B. Campbell.
Smithville North Carolina	30.14	765.5	30.18	766.6	69	20.6	78	ne.	12	5.4			10 s		ne.	0.13	3.3	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.02	711.7	30.06	763.5	54	12.2	80	sw.	1	0.4		3 c	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.35	745.5	30.02	762.5	63	17.2	72	se.	8	3.6		7c;cs	0	w.		0	0	fair	T. B. Jennings.
Starkville, Miss	29.64	752.8	30.11	764.8	75	23.9	82	ne	4	1.8		0	0			0	0	clear	C. Dill.
Stockton, Fort, Texas	26.95	684.5	29.87	758.7	70	21.1	100	sw.	6	2.7		4 ck	0	w.		0.15	3.8	fair	A. J. Warren.
Thomas, Camp, Arizona	27.14	689.3	29.77	756.1	57	13.9	44	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.45	748.0	30.13	765.3	64	17.8	63	e.	1	0.4		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.45	697.2	29.75	755.6	62	17.2	36	calm	0	0		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	30.02	762.5	30.04	763.0	45	7.2	76	se.	4	1.8			10 s		se.	0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					64	17.8	36	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.82	757.4	30.06	763.5	77.0	25.0	82	e.	6	2.7		1 c	0			0	0	clear	James Kenealy.
Visalia, California	29.47	748.5	29.84	757.9	57.4	14.1	78	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Washakie, Fort, Wyoming	24.44	620.8	29.82	757.4	46.5	8.1	93	e.	3	1.3		3 k	5 k			0.36	9.1	cloudy	T. M. Ambler.
Washington, D. C.	30.21	767.3	30.32	770.1	61.8	16.6	72	calm	0	0		0	hz.			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.94	658.9	29.71	754.6	55.5	13.1	77	w.	8	3.6		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.71	754.6	30.31	769.9	56	13.3	74	e.	1	0.4		0	fg.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.14	765.5	30.19	766.8	66.0	18.9	90	ne	8	3.6			10 s		ne.	0.44	11.2	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.60	650.2	29.86	758.4	41.5	5.3	60	ne.	5	2.2		0	2 s		n.	0	0	clear	J. Grover.
Yankton, Dakota	28.46	722.9	29.74	755.4	64	17.8	78	w.	5	2.2		0	0			0.37	9.4	clear	J. H. Atfield.
Yuma, Arizona	29.00	751.8	29.74	755.4	68.6	20.3	78	ne.	2	0.9		0	hz.			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.02	762.5	83	28.3	73	se.	5	2.2		7 cs	3 s		e.	0.11	2.8	cloudy	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.6	86	se.			1	6 k	8 ks	e.		0.140	3.6		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	77	25.0	94	s.			1	3 c	4 ks	s.	s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79	26.1	91	ne.					6 ks		ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos.
York Factory, B. A.	30.00	762.0	30.07	763.8	40.5	4.7	96	sw.	14	6.3		1 c?	0	sw.		0	0	fair?	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 44° 32′ E. 14° 28′	29.98	761.5	77	25.0	73	nnw.			2		5	nnw.				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.19	766.8	77	25.0	77	ssw.			3		3	ssw.						d. clouds.
H. M. S. Gannet, N. 32° 37′, W. 16° 55′	30.07	763.8	70	21.1	75	sw.			3		1							blue sky.
H. M. S. Iris, Port Said, Egypt	29.79	756.7	78	25.6	91	wnw.			3		3							d. clouds.
H. M. S. Monarch, Trieste, Austria	29.96	761.0	74	23.3		wsw.			4		8							d. clouds.
H. M. S. Minotaur, N. 42° 20′, W. 9° 08′	30.03	762.7	66	18.9	81	nnw.			1		1	wnw.				1	wnw.	dense mist.
H. M. S. Opal, N. 8° 40′, W. 13° 50′	29.97	761.2	87	30.6	76	ese.			2		7	ese.				2	ese	d. clouds.
H. M. S. Superb, N. 38° 54′, E. 17° 43′*†	29.99	761.7	76	24.4	86	ne.			3		1	wnw.				1	ene.	blue sky.
H. M. S. Thetis, N. 31° 30′, W. 17° 30′	30.13	765.3	72	22.2	76	nne.			1		1					1	nne.	blue sky.
H. M. S. Tenedos, Trepassey, N. F	30.06	763.5	53	11.7	80	nw.			4		3	w.						squally.
H. S. M. S. Eugenie, N. 43° 00′, W. 11° 37′	30.11	764.9	60.8	16.0	96	e.			4		10							misty.
U. S. Navy Yard, Portsmouth, N.H.*	30.23	767.8	61	16.1	77	nw.	2	0.9			0			0	0			clear.
U. S. S. Lancaster, Kronstadt, Russia	29.94	760.5	75	23.9	86	wnw.			1		2		calm			sm'h		fair.
U. S. S. Nipsic, N. 40° 16′, W. 71° 56′*	30.21	767.3	65	18.3	84	ne.			3		0					sm'h		clear.
U. S. S. Portsmouth, Conimicut, R.I	30.33	770.4	64	17.8	100	sse.			2		0							clear.
U. S. S. Powhatan, Port Royal, S.C	30.08	764.0	77	25.0	91	nne.			1		10							cloudy.
U. S. S. Quinnebang, Gaboon river, Guinea	30.02	762.5	80	26.7	74	sse.			2		2		se.			sm'h		fair.
U. S. S. Saratoga, New York, N. Y	30.33	770.4	62	16.7	72	nnw.			0-1		0			0	0	sm'h		clear.
U. S. S. Vandalia, N. 24° 33°, W. 66° 51′	30.21	767.3	77	25.0	95	s.			2		5		calm			sm'h		fair.
S. S. May Hulse, N. 2° 09′, W. 26° 20′	30.01	762.2	79.5	26.4	79	sse.			3		8							d. clouds
H. P. M. S. Rio Lima, N. 15° 17′, W. 22° 31′			76.1	24.5	80	nne.			4		3					4	ne.	d. clouds.
S. S. British Crown, N. 51° 02′, W. 15° 18′†	30.25	768.3	60	15.6		n.			3		6		n.	8 h'r	8 h'r	sm'h		fine.
S. S. British Prince, N. 39° 14′, W. 67° 13′†	30.18	766.6	68	20.0		ene.			5		8		e.			sli't	e.	
S. S. Illinois, N. 44° 35′, W. 40° 40′	30.03	762.7	65	18.3		se.			1		5		se.			sm'h	e.	fine.
S. S. Ohio, Liverpool, Eng †	29.89	759.2	55	12.8		nw.			3		10		nw.	1 h'r	1 h'r			cloudy.
S. S. Pennsylvania, Philadelphia, Pa †	30.31	769.9	71	21.7		nw.			5		7			0	0			cloudy.
S. S. British Princess, N. 48° 35′, W. 41° 04′			67	19.4		n.			4		0			0	0	light	wsw.	clear.
S. S. Circassian, N. 47° 54′, W. 50° 09′	29.97	761.2	41	5.0	100	w.			4		9					2	con.	overcast.
S. S. Grecian, Montreal, Canada	30.19	766.8	68	20.0	69	sw.			3		0			0	0			clear.
S. S. Nova Scotian, Halifax, N. S	30.25	768.3	48	8.9		e.			3		0					sm'h		clear.
S. S. Polynesian, Moville, Ireland	30.09	764.3	56	13.3		n.			4		3		ne.	0	0	sm'h		fair.
S. S. Prussian, N. 51° 59′, W. 7° 35′	29.97	761.2	57	13.9		nw.			2		8		nw.	0	0	sm'h	wnw.	cloudy.
S. S. Manitoban, N. 55° 17′, W. 5° 56′	30.06	763.5	49	9.4	85	nnw.			4		4		nnw.	0	0	sm'h	nw.	fine.
S. S. Scandinavian, N. 43° 46′, W. 48° 40′	29.96	761.0	44	6.7		nw.			4		10					mod.	nw.	foggy.
S. S. Jason, N. 40° 13′, W. 69° 17′†	30.31	769.9	52.7	11.5		ene.			2	3 c	0					2	ene.	clear.
S. S. Alvo, Ponce, Porto Rico, W.I*	30.07	763.8	80	26.7		e.			3		7		calm	2 h'r	2 h'r			cloudy.
S. S. Alene, Kingston, Jamaica, W. I†	30.06	763.5				var.			2-4		0			0	0			clear.
S. S. Dorian, Greenock, Scotland	30.05	763.3	60	15.6		var.					6		ne.	sh'rs	sh'rs			
S. S. Devonia, N. 45° 40′, W. 45° 00′*†	30.02	762.5	58	14.4		sse.			2		9		sse.			sli't	wsw.	cloudy.
S. S. Furnesia, Valencia, Ireland †	30.26	768.6	59.2	15.1	98	nnw.			4		10		n.	5 h'r	5 h'r			cloudy.
S. S. Landaff City, Bristol, Eng †	29.92	760.0	56	13.3		sw.			1		10		sw.	sh'rs	sh'rs			cloudy.
S. S. Gallia, N. 43° 41′, W. 49° 29′	29.93	760.2	52	11.1	86	nw.			4		5		nw.	0	0	sm'h		foggy.
S. S. Marathon, N. 41° 19′, W. 9° 32′	30.04	763.0	67	19.4		nne.			2		3		nne.	0	0	mod.	n.	
S. S. Colina, N. 46° 44′, W. 51° 31′†	29.96	761.0				n.			2		1		ene.	0	0	sm'h		clear.
S. S. Rhiwindda, N. 40° 12′, W. 69° 25′*†	30.30	769.6	55	12.8		n			2		2		n.	0	0	sm'h		fine.
S. S. Wisconsin, N. 44° 20′, W. 46° 20′			60	15.6		wsw.			1		10		wnw.	2 h'r	2 h'r	mod.	wsw.	foggy.
S. S. Wyoming, N. 41° 59′, W. 53° 25′	30.15	765.8	54	12.2		nnw.			6		7		n.	3 h'r	3 h'r	mod.	w.	fair.
S. S. Bohemia, N. 44° 50′, W. 38° 30′						e.			4		7		e.	0	0	mod.	e.	cloudy.
S. S. Gellert, New York, N. Y	30.31	769.9	76	24.4	91	nne.			2		0			0	0			clear.
S. S. Rugia, N. 52° 45′, W. 29° 39′	30.47	773.9	57	13.9		ssw.			4		10		sw.	0	0	mod.	ssw.	foggy.
S. S. Silesia, N. 52° 15′, W. 3° 12′	29.87	758.7	62.0	16.7		n.			1		2		n.	0	0			hazy.
S. S. City of Berlin, N. 51° 15′, W. 12° 35′	30.24	768.1	57	13.9	63	n.			4		4		n.	0	0	mod.	n.	fine.
S. S. City of Paris, N. 45° 55′, W. 36° 09′*†	30.08	764.0				ese.			4		10		e.			mod.	e.	misty.
S. S. Virginian, N. 42° 38′, W. 43° 28′*	29.99	761.7	68	20.0		e.			4		10		ene.	8 h'r	8 h'r	sm'h		raining.
S. S. Archimedes, N. 40° 44′, W. 51° 25′	30.05	763.3				nnw.			4		10		n.	1 h'r	1 h'r	sm'h		overcast.
S. S. Hevelius, N. 40° 00′, W. 12° 00′			69	20.6		ne.			4		4		ne.	0	0	sm'h		fair.
S. S. Ptolemy, N. 48° —′, W. 8° —′	30.13	765.3	57.5	14.2	87	nnw.			4	cs	8 k		w.	0	0	2	nnw.	misty.
S. S. Colorado, N. 24° 51′, W. 83° 37′ †	30.02	762.5	85	29.4		nnw.			2		2		nnw.	0	0	small	nnw.	clear.
S. S. Chalmette, New York, N.Y†	30.38	771.6	62	16.7		nne.			2		1			0	0			clear.
S. S. Lone Star, N. 34° 25′, W. 76° 16′ †	30.15	765.8	79	26.1		ne.			3		10			4 h'r	4 h'r	mod.	ne.	drizzling.
S. S. City of Merida, N. 23° 09′, W. 82° 22′ †	30.05	763.3	77	25.0		calm			0		5			4 h'r	4 h'r			fair.
S. S. Denmark, New York, N.Y†	30.30	769.6	70	21.1		nnw.			2		2			0	0			clear.
S. S. Egypt, N. 46° 53′, W. 35° 46′	30.16	766.1	59	15.0		e.			5		5		e.	0	0	mod.	e.	hazy.
S. S. Erin, N. 50° 50′, W. 1° 15′	29.89	759.2	65	18.3		w.			4		3		nw.	0	0			hazy.
S. S. Helvetia, N. 40° 44′, W. 57° 51′	30.18	766.6	66	18.9	94	ne.			6		10		ne.	5 h'r	5 h'r	sli't	ne.	rainy.
S. S. Donau, N. 49° 34′, W. 19° 24′	30.47	773.9				nne.			4		8		n.	0	0	mod.	nne.	cloudy.
S. S. Elbe, N. 40° 37′ W. 59° 55′	30.22	767.5	64	17.8	89	ne.			5-6		9		ne.	10 h'r	10 h'r	long	ne.	squally.
S. S. Fulda, N. 40° 36′, W. 69° 55′	30.26	768.6	54	12.2	80	n.			3		0			7 h'r	7 h'r	sm'h		clear.
S. S. Habsburg, N. 40° 56′ W. 66° 38′	30.28	769.1				nne.			4		0			4 h'r	4 h'r	sm'h	nne.	clear.
S. S. Hohenstaufen, N. 46° 35′, W. 34° 30′	30.10	764.5				ene.			4		8		e.	1½h'r	1½h'r	mod.	e.	light haze.
S. S. Hermann, N. 40° 44′ W. 50° 57′	30.05	763.3	77	25.0	82	nne.			5		7		ne.	0	0	mod.	nne.	fair.
S. S. Main, N. 49° 26′, W. 11° 17′	30.18	766.6	59	15.0		nne.			4		7		nne.	2 h'r	2 h'r	mod.	nne.	fair.
S. S. Ohio, N. 36° 57′, W. 75° 30′	30.31	769.9				ene.			4		0			0	0	light	ene.	clear.
S. S. Strassburg, N. 53° 32′, E. 5° 12′	29.80	756.9	60.0	15.6	100	ese.			1		10		calm	6 h'r	6 h'r			thnd'rstorm.
S. S. Werra, N. 49° 56′, W. 8° 15′	30.11	764.9	57	13.9		nw.			3-4		5		nw.	0	0	mod.	nw.	fair.
S. S. City of Augusta, Savannah, Ga †	30.13	765.3				nne.			5		10		nne.	rain	rain			cloudy.
S. S. Colon, N. 26° 47′, W. 73° 57′†	30.15	765.8	79	26.1	91	se.			3		0			0	0	small	se.	clear.
S. S. Muriel, N. 12° 00′, W. 60° 30′	30.11	764.8	82	27.8		ene.			4		10		ene.			r'gh	ene.	drizzling.
S. S. Orinoco, N. 38° 36′, W. 71° 50′ †	30.16	766.1	67	19.4		ne.			3		4		ne.	0	0	light	e.	clear.
S. S. Belgenland, N. 42° 25′, W. 42° 45′			67	19.4	95	calm			0		9		n.	0	0	mod.	wnw.	cloudy.
S. S. Nederland, N. 46° 22′, W. 32° 13′			57	13.9		ese.			6		2		ese.	0	0	mod.	ese.	hazy
S. S. Rhynland, Antwerp, Belgium			70	21.1	90	n.			4		3		n.	0	0			clear.
S. S. Pennland, Antwerp, Belgium	29.82	757.4	61	16.1	94	sw.			1		0			0	0			clear.
S. S. Waesland, Jersey City, N. J	30.29	769.4	69	20.6		n.			3		0			0	0			clear.
S. S. P. Caland, N. 40° 36′, W. 65° 45′	30.16	766.1	65.1	18.4	88	ene.			4		4		ene.			3	ne.	fair.
S. S. Schiedam, N. 48° 08′ W. 30° 56′	30.26	768.6	65	18.3	78	ese.			3		3		se.	0	0	mod.	ese.	hazy.
S. S. W. A. Scholten, Rotterdam, Holland	29.81	757.2	70.0	21.1	80	ssw.			2		7		s.	0	0			fair.
S. S. Belize, Kingston, Jamaica, W. I*†	30.12	765.0	83	28.3		var.					0		ne.	0	0	mod.	ne.	clear.
S. S. Caracas, N. 22° 51′ W. 68° 35′ †	30.22	767.6	81.5	27.5	84	ese.			4		2		se.	0	0	sm'h		clear.
S. S. Valencia, N. 30° 54′, W. 70° 50′ †	30.37	771.4	80	26.7	80	sse.			5		2		s.	3 h'r	3 h'r	mod.	s.	clear.
S. S. State of Nevada, N. 40° 24′, W. 70° 19′ †	30.30	769.6	59	15.0		ene.			4		1		ene.	0	0	sm'h		clear.
S. S. State of Nebraska, N. 52° 10′, W. 24° 32′*†	30.36	771.1	54	12.2		e.			3		6		e.	0	0	sm'h		fair
S. S. Thingvalla, New York, N. Y †	30.15?	765.8?	73.6	23.1		wnw.			2		2		wnw.	0	0			clear.
S. S. Toledo, N. 37° 09′, E. 5° 18′ *†	30.13	765.3	72	22.2		w.			3		1		w.	0	0	sli't	wnw.	clear.
S. S. Romano, N. 41° 22′, W. 57° 51′ †	30.16	766 1	61	16.1		n.			4		6		n.	0	0	mod.	n.	fair.
S. S. Dominion, N. 50° 49′, W. 50° 56′*†	29.86	758.4	37	2.8		w.			1		2		w.			sm'h	w.	clear.
S. S. Oregon, Belfast Bay, Ireland	29.92	760.0	50	10.0		nnw.			5		5		nnw.			light		fair.
S. S. Lake Huron, N. 46° 29′, W. 52° 36′	30.05	763.3	44	6.7		nnw.			2		0					mod.	wsw.	clear.
S. S. Lake Manitoban, N. 53° 20′, W. 30° 10′	30.38	771.6	52	11.1		se.			2		10		se.	0	0	sm'h		dense fog.
S. S. Daniel Steinmann, N. 47° 21′, W. 58° 57′†	30.09	764.3	58	14.4		w.			2		0			2 h'r	2 h'r	long	wsw.	clear.
S. S. Plantyn, N. 44° 22′, W. 45° 09′	30.07	763.8							4		4		nnw.	2 h'r	2 h'r	sm'h	n.	misty.
S. S. Norman, N. 42° 25′, W. 70° 54′						sw.			5		0			0	0			clear
S. S. Saxon, N. 39° 08′, W. 75° 14′ †	30.30	769.6				n.			4									clear.
S. S. Britannic, N. 40° 38′, W. 65° 33′†	30.28	769.1	53	11.7		nne.			2		2		ne.	0	0	sm'h	ne.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Celtic, New York, N. Y.†	30.29	769.4	65	18.3	.....	n.	.....	.....	1	.....	2	.....	n.	0	0	.....	.....	clear.
S. S. Iowa, N. 42° 45′, W. 61° 45′ †	30.23	767.8	58	14.4	.....	ne.	.....	.....	2	.....	1	.....	ne.	0	0	sm'h	.....	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.02	762.5	71.5	21.9	66	e.	.....	.....	4	.....	2	.....	.....	0	0	.....	.....	clear.
Schr. Abbie H. Gheen, New York, N. Y†	30.40	772.1	62	16.7	.....	w.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	clear.
Bk. Aquidneck, N. 27° 08′, W. 40° 59′*†	30.10	764.5	.....	.....	.....	nw.	.....	.....	3	.....	0	.....	.....	0	0	light	nw.	clear.
Schr. Anna A. Holton, N. 31° 06′, W. 68° 30′*†	30.20	767.1	80	26.7	.....	ssw.	.....	.....	4	.....	2	.....	ssw.	0	0	mod.	s.	clear.
Schr. Arthur Burton, Boston, Mass †	30.25	768.3	.....	.....	.....	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Aureola, N. 41° 12′, W 36° 14′ †	29.95	760.7	74	23.3	.....	ene.	.....	.....	5	.....	5	.....	ene.	0	0	mod.	e.	fair.
Bk. Arda, Sackville, N. B	.....	.....	.....	.....	.....	wnw.	.....	.....	3	.....	2	.....	nw.	0	0	.....	.....	clear.
Bk. Alba, N. 4° 45′, W. 67° 15′*†	30.28	769.0	50.4	10.2	.....	nne.	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	
S. S. Burswell, N 50° 09′, W. 3° 30′ *†	29.95	760.7	62	16.7	.....	w.	.....	.....	3	.....	6	.....	wnw.	2 h'r	2 h'r	sm'h	.....	fine.
Bg. Belle of the Bay, N. 28° 26′, W. 89° 58′†	30.05	763.3	.....	.....	.....	n.	.....	.....	1	.....	2	.....	sw.	0	0	sm'h	s.	clear.
Bk. Bayonnaise. N. 41° 00′, W. 13° 13′	.....	.....	62.6	17	.....	nne.	.....	.....	2	.....	hz.	.....	.....	.....	.....	sm'h	e.	fine.
Schr. C. R. Flint, Tampico Bar, Mexico †	30.02	762.5	84	28.9	.....	calm	.....	.....	0	.....	10	.....	.....	sh'rs	sh'rs	r'gh	ese.	cloudy.
Bk. Cato, Bodöe, Norway*†	29.90	759.4	.....	.....	.....	w.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	
S. Criterion, N. 41° 15′, W. 56° 59′ *†	30.05	763.3	.....	.....	.....	n.	.....	.....	4	.....	10	.....	nne.	4 h'r	4 h'r	light	w.	light rain.
Schr. Clotilde, N. 21° 48′, W. 96° 44′*†	29.95	760.7	85	29.4	.....	e.	.....	.....	2	.....	2	.....	e.	0	0	sm'h	e.	clear.
S. David Stewart, N. 4° 33′, W. 25° 41′†	29.82	757.4	.....	.....	.....	var.	.....	.....	1	.....	3	.....	s.	rain	rain	mod.	se.	squally.
Bkt. David A. Preston, N. 25° 18′, W. 74° 50′	.....	.....	.....	.....	.....	se.	.....	.....	5	.....	0	.....	.....	0	0	rg'h	se.	
S. E. J. Spicer, N. 43° 56′, W. 46° 00′	30.01	762.2	63	17.2	94	sw.	.....	.....	2	.....	10	.....	wnw.	18 h'r	18 h'r	mod.	ne.	rain & fog.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′ *†	30.00	762 0	62	16.7	.....	wnw.	.....	.....	6	.....	.....	.....	.....	0	0	long	wnw.	cloudy.
U. S. Fish. Com. S. S. Fish Hawk, Norfolk, Va†	30.32	770.1	69	20.6	85	ene.	.....	.....	1	.....	9	.....	.....	0	0	.....	.....	cloudy.
S. Festina Lente, Bic Island, Canada	30.03	762.7	51	10.6	.....	sw.	.....	.....	5	.....	3	.....	w.	0	0	sm'h	.....	clear
Schr. F, E. Waters, N. 32° 33′, W. 75° 09′*†	30.20	767.1	.....	.....	.....	ne.	.....	.....	3	.....	.....	.....	ne.	6 h'r	6 h'r	sm'h	ne.	cloudy.
Bgt George, N. 28° 12′, W. 62° 40′ *†	30.22	767.6	78	25.6	.....	ene.	.....	.....	1	.....	8	.....	.....	light	light	mod.	s.	squally.
Bk. Galeon, N. 23° 55′, W. 82° 15′ †	30.02	762.5	82	27.8	.....	se.	.....	.....	3	.....	5	.....	se.	0	0	sm'h	e.	squally.
Bk. Heinrich & Tonlo, N. 42° 51′, W. 37° 48′†	29.95	760.7	66	18.9	.....	ene.	.....	.....	3	.....	3	.....	ene.	2 h'r	2 h'r	long	e.	fair.
S. Hedwig, N. 36° 14′, E. 15° 09′	29.96	761.0	74.8	23.8	93	e.	.....	.....	2	.....	2	.....	sw.	0	0	2	sse.	fine.
Bk. Hattie G. McFarland, N. 32° 43′, W 77° 40′†	30.11	764.8	77	25.0	.....	ne.	.....	.....	5	.....	10	.....	ne.	8 h'r	8 h'r	r'gh	ne.	threatening.
Bk. Harriett S. Jackson, near Boone Island, Me	.....	.....	.....	.....	.....	s	.....	.....	2	.....	2	.....	sse.	0	0	small	sse.	
Bk. Horace Scudder, N. 12° 56′, W. 49° 47′ *†	30.12	765.0	80	26.7	.....	ne.	.....	.....	5	.....	4	.....	ne.	0	0	long	e.	fine.
Schr. Isabel Alberto, N. 34° 24′, W. 75° 51′†	30.14	765.5	.....	.....	.....	ne.	.....	.....	3	.....	10	.....	ne.	0	0	mod.	ssw	cloudy.
Bk. Johanne, N. 45° 07′, W. 34° 21′*†	30.10	764.5	63	17.2	.....	e.	.....	.....	4	.....	10	.....	e.	10 h'r	10 h'r	mod.	e.	foggy.
Schr. John L. Thomas, N. 15° 30′, W. 82° 35′*†	30.04	763.0	.....	.....	.....	se.	.....	.....	3	.....	9	.....	s.	6 h'r	6 h'r	light	ese.	raining.
Bg. John Wesley, N. 23° 55′, W. 33° 28′ *†	30.03	762.7	78	25.6	.....	wsw.	.....	.....	3	.....	4	.....	sw.	0	0	sm'h	w.	fair.
Schr. Jennie N. Huddell, Charleston, S. C†	30.12	765.0	75	23.9	.....	ne	.....	.....	5	.....	2f	.....	ne.	3 h'r	3 h'r	.....	.....	cloudy.
S. J. W. Gildemeister, N. 31° 41′, W. 43° 18′	30.08	764.0	71.6	22	86	nnw.	.....	.....	5–6	.....	7 k	.....	ne.	.....	.....	3–4	nw.	drizzling.
Bkt. Kryolith, Ivigtut, Greenland *†	29.68	753.9	.....	.....	.....	s.	.....	.....	9	.....	10	.....	.....	rain	rain	.....	.....	squally.
Bg. L. & W. Armstrong, N. 27° 43′, W. 59° 50′*†	30.34	770.6	.....	.....	.....	calm	.....	.....	0	.....	1	.....	e.	0	0	sm'h	n.	clear.
Light House Tender, Laurel, Key West, Fla†	29.99	761.7	82	27.8	.....	ese.	.....	.....	1–2	.....	8	.....	se.	2¾h'r	2¾h'r	.....	.....	cloudy.
Bk. Louise Adelaide, Matanzas, Cuba, W. I †	30.04	763.0	78	25.6	.....	sse.	.....	.....	1	.....	10	.....	se.	2 h'r	2 h'r	.....	.....	showery.
Bk. Milo, N. 45° 17′, W. 56° 06′ †	30.15	765.8	.....	.....	.....	n.	.....	.....	2	.....	.....	.....	.....	.....	.....	short	wnw	clear.
S. S. Madrid, N. 36° 56′, W. 33° 29′†	29.77	756.1	68	20.0	90	nne.	.....	.....	3	.....	5	.....	nne.	13 h'r	13 h'r	light	var.	fair.
Schr. Minnie A. Bonsall, Hudson river†	30.26	768.6	66	18.9	.....	ne.	.....	.....	5	.....	.....	.....	s.	0	0	.....	.....	clear.
Bgt. Myrtle, N. 17° 30′, W. 61° —′*†	30.20	767.1	.....	.....	.....	e.	.....	.....	6	.....	.....	.....	e.	0	0	.....	.....	fair.
Schr. Maggie Abbott, Baracoa, Cuba†	30.02	762.5	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	calm	sh'rs	sh'rs	.....	.....	clear.
Bk. National Eagle, N. 39° 50′, W. 27° 47′	.....	.....	.....	.....	.....	se	.....	.....	5	.....	8	.....	ese.	5 h'r	5 h'r	mod.	sse.	heavy rain.
Bg. O. C. Clary, N. 27° 34′, W. 60° 18′ *†	30.30	769.6	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	ne	clear.
Bk. Ottawa, N. 52° 23′, E. 2° 34′	29.85	758.2	55	12.8	.....	W	.....	.....	3	.....	10	.....	sw.	½ h'r	½ h'r	sm'h	.....	foggy.
S. Paramita, N. 22° 02′, W. 38° 28′†	30.09	764.3	78	25.6	.....	nw.	.....	.....	0–2	.....	1	.....	w.	0	0	long	nnw.	clear.
S. Rudolph, N. 48° 12′, W. 14° 01′	.....	.....	58.0	14.4	.....	nnw.	.....	.....	5	.....	8	.....	n.	0	0	mod.	var.	cloudy.
Bg. Rising Sun, Barbadoes, W. I.†	30.06	763.5	84	28.9	.....	e.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	
Bk. Rosino, N. 40° 32′, W. 20° 12′	.....	.....	63	17.2	.....	se.	.....	.....	2	.....	fg.	.....	s.	0	0	mod.	se.	foggy.
Bk. Sunbeam, N. 39° 45′, W. 36° 19′ †	29.94	760.5	67	19.4	79	nne.	.....	.....	4	.....	5	.....	ne.	0	0	mod.	e.	fair.
Bk. Southern Belle, N. 22° 40′, W. 45° 35′†	30.17	766.3	78	25.6	.....	nnw.	.....	.....	3	.....	.....	.....	.....	0	0	mod.	n.	clear.
S. Sovereign of the Seas, N. 30° 37′, W. 41° 55′ *†	30.15	765.8	74	23.3	86	nnw.	.....	.....	5	.....	5	.....	nnw.	6 h'r	6 h'r	mod.	nw.	showery.
Bg. Teneriffe, N. 40° 28′, W. 73° 10′*	30.20	767.1	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	
Schr. Viola Reppard, off Nahant Head, Mass †	30.22	767.6	63	17.2	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bkt. Wandering Jew, Matanzas, Cuba *†	30.02	762.5	80	26.7	.....	s.	.....	.....	4	.....	9	.....	ssw.	4 h'r	4 h'r	.....	.....	raining.
Bgt. Sunlight, N. 32° 47′, W. 63° 14′	.....	.....	.....	.....	.....	sw.	.....	.....	4	.....	2	.....	sw.	0	0	mod.	nw.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay †	29.82	757.4	67.2	19.6	97	n.	.....	.....	6	.....	8	sw.	.....	.....	.....	2	n.	squally.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.27	768.8	58	14.4	.....	nw.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata,	29.81	757.2	64.2	17.9	.....	n.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.87	758.7	68	20.0	74	n.	15	6.7	.....	.....	5	.....	n.	0	0	.....	.....	fair.
U. S. S. Galena, Montevideo, Uruguay*	29.89	759.2	68	20.0	69	nnw.	.....	.....	3	.....	5	.....	.....	.....	.....	sm'h	.....	fair.
S. Annie M. Law, S. 35°, 47′ E. 19° 47′ *†	30.28	769.1	58	14.4	.....	wsw.	.....	.....	4	.....	5	.....	w.	1 h'r	1 h'r	high	ne	
S. Wm. McGilvery, S. 35° 34′, W. 53° 50′*†	30.10	764.5	63	17.2	94	nne.	.....	.....	4	.....	0	.....	.....	6 h'r	6 h'r	.....	.....	foggy.
S. S. Olbers, S. 19° 43′, W. 38° 43′†	30.24	768.1	75	23.9	80	sse.	.....	.....	6	.....	10	.....	sse.	7 h'r	7 h'r	mod.	sse.	overcast.
Bk. Achille F., S. 27° —′, W. 40° 30′ †	30.35	770.9	73	22.8	90	ne.	.....	.....	5	.....	9	.....	.....	0	0	mod.	ene.	cloudy.
Bk. Alpheus Marshall, S. 13° 46′, W. 10° 16′*†	30.06	763.5	.....	.....	.....	ese.	.....	.....	5	.....	10	.....	ese.	2 h'r	2 h'r	.....	.....	rainy.
Bk. Ceylon, S. 20° 23′, E. 2° 05′	30.34	770.6	72	22.2	80	ese.	.....	.....	6	.....	8	.....	se.	0	0	r'gh	se.	cloudy
S. Dynomene, S. 12° 45′, W. 6° 38′	30.15	765.8	71	21.7	85	ese.	.....	.....	5	.....	7	.....	.....	mod.	mod	long	se.	fair.
Bk. Gray Eagle, S. 24° 02′, W. 42° 09′*†	30.20	767.1	.....	.....	.....	ne.	.....	.....	6	.....	3	.....	ne.	0	0	h'vy	ese.	clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.78	756.4	75	23.9	68	s.	.....	.....	1	.....	2	s.	.....	.....	.....	.....	.....	d. clouds.
H.M. S. Champion, N. 8° 00′, E. 117° 30′	29.75	755.6	86	30.0	76	calm	.....	.....	0	.....	6	e.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Espiegle, N. 7° 28′, E. 171° 32′	29.92	760.0	80	26.7	82	ene.	.....	.....	1	.....	0	.....	.....	.....	1	.....	ne.	blue sky.
H. M. S. Flying Fish, N. 37° 00′, E. 125° 50′	29.90	759.4	64	17.8	94	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.85	758.2	84.5	29.2	76	ene.	.....	.....	1	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sheldrake, N. 2° 16′, E. 108° 09′	.....	.....	82	27.8	.....	sw.	.....	.....	1	.....	3	.....	.....	.....	1	sw.	.....	d. clouds.
H. M. S. Zephyr, N. 34° 41′ E. 135° 12′	30.09	764.3	72	22.2	85	calm	.....	.....	0	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
H. P. M. S. Tamega, Macao, China	29.73	755.1	80.2	26.8	86	se,	.....	.....	4	.....	6	.....	.....	5 h'r	5 h'r	.....	.....	d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.10	766.1	68	20.0	90	ssw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Adams, Sitka, Alaska†	30.07	763.8	49	9.4	93	se.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	raining.
U. S. S. Essex, N. 19° 24′, W. 151° 23′	29.97	761.2	75	23.9	86	e.	.....	.....	4	.....	5	.....	ese.	.....	.....	sm'h	ene.	fair.
U. S. S. Hartford, Honolulu, Sandwich Ids *	29.98	761.5	74	23.3	90	se.	.....	.....	1	.....	5	.....	.....	0	0	.....	.....	fair.
U. S. S. Monocacy, Salee river, Corea	29.92	760.0	70	21.1	75	wnw.	.....	.....	1	.....	5	.....	calm	.....	.....	.....	.....	misty.
U. S. S. Palos, Hong Kong, China	29.62	752.3	78	25.6	91	ne.	.....	.....	1	.....	8	.....	ne.	.....	.....	.....	.....	cloudy.
U. S. S. Richmond, N. 28° 44′, E. 122° 48′*	29.63	752.6	77	25.0	100	ne.	.....	.....	5	.....	10	.....	ne.	1.	25.	long	ne.	cloudy.
S. S. Arabic, N. 43° 11′, W. 135° 21′	.....	.....	55	12.8	93	ne.	.....	.....	4	.....	5	.....	ne.	0	0	sm'h	.....	fair.
S. S. Coptic, N. 26° 04′, E. 121° 35′	29.74	755.4	75.0	23.9	77	ne.	.....	.....	3	.....	7	.....	ne.	8 h'r	8 h'r	slt'r	ne.	misty.
S. S. Oceanic, N. 41° 12′, E. 157° 27′	30.23	767.8	52	11.1	66	w.	.....	.....	2	.....	8	.....	.....	.....	.....	sm'h	ese.	cloudy.
S. S. Columbia, N. 43° 27′, W. 124° 40′ †	30.15	765.8	54	12.2	87	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	mod.	nnw.	cloudy.
S. S. Oregon, N. 39° 26′, W. 123° 58′†	29.96	761.0	53	11.7	80	nnw.	.....	.....	6	.....	0	.....	.....	.....	.....	r'gh	nnw.	clear.
S. S. Willametta, Seattle, Wash. Ter.†	30.16	766.1	53	11.7	93	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	hazy.
S. S. Ancon, San Francisco, Cal.†	29.92	760.0	55	12.8	87	w.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Chester, Eureka, Cal.†	29.99	761.7	53	11.7	86	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Queen of the Pacific, Portland, Oregon †	30.13	765.3	50	10.0	.....	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. City of New York, N. 26° 52′, W. 146° 05′†	30.22	767.0	70	21.1	80	ese.	.....	.....	3	.....	10	.....	ese.	.....	.....	sm'h	.....	cloudy.
S. S. City of Pekin, N. 37° 53′, W. 123° 45′†	29.92	760.0	52	11.1	79	wnw.	.....	.....	5	.....	10	.....	nw.	0	0	mod.	wnw.	overcast.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.94	760.5	81	27.2	83	calm	.....	.....	0	.....	8	.....	ne.	.....	.....	sm'h	.....	showery.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Colima, La Libertad, San Salvador †	29.95	760.7	79	26.1	86	ese.			2		8		se.	0.24	6.1	small	se.	cloudy.
S. S. Granada, Mazatlan, Mexico †	29.97	761.2	83	28.3	64	sw.			1		1		w.	0	0			clear.
S. S. San Blas, N. 7° 10′, W. 80° 33′			79	26.1		var.			1		6		n.	2 h'r	2 h'r	small	ssw.	fair.
S. S. Radnorshire, Hiogo, Japan *†	30.05	763.3				calm			0		0			0	0			clear
S. Sacramento, N. 9° 22′, E. 123° 20′*†	29.92	760.0	84	28.9	68	e.			1		5		e.	3 h'r	3 h'r	sm'h		fair.
S. St. David, N. 20° 04′, E. 120° 04′ *†	29.77	756.1	83	28.3	91	sse.			4		5		sse.	2 h'r	2 h'r	short	sse.	drizzling
Bk. Xenia, Shanghai, China			74	23.3		nne.			5		10		nw.	9 h'r	9 h'r			rainy.
H. M. S. Sappho, N. 20° 28′, W. 106° 29′	29.94	760.5	81	27.2	100	n.			2		2	n.				1	nw.	d. clouds.
U. S. S. Ranger, N. 13° 24′ W. 89° 28′	29.92	760.0	80	26.7	82	e.			1		10		e.	0.15	3.8	sm'h		overcast.
S. Henry Failing, Wilmington, Cal†	29.83	757.7	63	17.2		e.			1		fg.		nw.	0	0	sm'h	wnw.	foggy.
S. Grecian, Yokohama, Japan†	30.12	765.0	69	20.6	90	s.			3		0			0	0			clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney Harbor, N. S. W			58	14.4	70	calm			0		2	s.						d. clouds.
H. M. S. Kingfisher, S. 37° 29′, W. 117° 01′	30.01	762 2	62	16.7		nnw.			4		6					5	nnw.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.69	754.1	75	23.9	95	ne.			1		8	ne.						d. clouds.
U. S. S. Iroquois, Valparaiso, Chili	29.98	761.5	51	10.6	93	n.			2		10							rainy.
U. S. S. Lackawanna, S. 18° 52′, W. 85° 03′*	30.02	762.5	66	18.9	64	sse.			4		5		se.			mod.	se.	fair.
U. S. S. Onward, Callao, Peru†	30.12	765.0	65	18.3	84	se.			2		10		se.					cloudy.
U. S. S. Pensacola. Callao, Peru*	29.95	760.7	65	18.3	89	se.	6	2.7			10			0	0			cloudy.
U. S. S. Wachusetts, S. 17° 11′, W. 148° 44′ *†	30.04	763.0	77	25.0	82	e.			1		2		calm			mod.	e.	clear.
S. S. Australia, Sydney, N. S. W.	30.18	766.6	63	17.2	94	ne.			4		4		ne.	0	0			fair.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.93	760.2	81.3	27.4	80	ese.			3		4					sm'h		squally.
S. S. City of Sydney, S. 33° 56′, E. 158° 45′*†	30.31	769.9	65	18.3	73	n.			3		10 ck		ne.					cloudy.
S. Parker M. Whitmore, S. 36° 00′, W. 103° 30′ *†	30.42	772.7	54	12.2		ene.			4		10		ne.	0	0	long	ese.	cloudy.
S. Storm King, S. 32° 23′, W. 87° 03′ *†	30.12	765.0				s.			5		5		s.	1 h'r	1 h'r	high	s.	fair.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.00	762.0	80	26.7		se.			3		3	ese.				2	sse.	d. clouds.
U. S. S. Enterprise, Tuliaer Bay, Madagascar*	30.11	764.8	75	23.9	81	wsw.			3		0					sm'h		clear.
U. S. S. Juniata, Colombo, Ceylon, India	29.84	757.9	81	27.2	96	wsw.			2		8		wsw.	sli't	sli't	sm'h		cloudy.
S.S. Galatia, Bombay, India *†	29.60	751.8	87	30.6		wsw.			4		6		sw.	3 h'r	3 h'r	mod		squally.
S. S. Malabar, Bassein river, India *†	29.65	753.1				sw.			6		10		sw.	4 h'r	4 h'r	sm'h		heavy rain.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 16, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ALGERIAN.																			
Nemours			30.00	761.9	71.2	21.8	89	s.			1		0			0	0	clear	Malaterre.
Algiers			30.02	762.5	72.7	22.6	76	se.			1		6			0	0	cloudy	Thève.
La Calle			30.01	762.2															Fonfrède.
Tunis			30.02	762.4															Jacques.
Saida			30.04	763.1															Pérès.
Tebessa			30.06	763.5	84.2	29.0	27	sw.			5		1			0	0	very fair	St. Martin.
Geriville					77.7	25.4	21	n.			5		3			inap.	inap.	pretty fair	Forfert.
Laghouat			30.03	762.8	91.4	33.0	15	e.			5		0			inap.	inap.	clear	Abraham.
Biskra			30.01	762.3	91.4	33.0	25	e.			1		0			0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			30.05	763.3	54.0	12.2	83	nw.	10	4.5		10 cs				0.073	1.9	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.75	755.6	29.84	757.9	56.0	13.3	70	n.	19	8.5			8			0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.28	743.8	29.82	757.4	65.5	18.6	87	s.			2		10			0.138	3.5		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.06	738.2	29.80	757.0	69.6	20.9	72		6.3	2.8			8			0	0	stormy	Dr. Wierzbiski
Eperies	29.01	736.9	29.84	757.9	82.4	28.0	55	se.			2	cs; hz	7 k			inap.	inap.		Julius Mikolik.
Gratz	28.63	727.2	29.83	757.6	71.8	22.1	82	sw.			1		6			0	0		Andreas Rospini.
Hermannstadt	28.46	722.8	29.78	756.5	87.4	30.8	41	se.			2		2			0	c		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.48	723 3	29.76	755.8	71.2	21.8	64	n.			1		6			0.098	2.5	heavy cl'ds	The Staff.
Lemberg	28.95	735 4	29.89	759.1	78.8	26.0	52	se.			2		0			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. Y. von Szontagh.
Pola	29.72	754.9	29.83	757.6	71.8	22.1	69	nw.			4		4			0	0		I. R. Hydrographic Office.
Szathmar	29.39	746.6	29.84	757.8	89.2	31.8	48	e.			3		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.58	751.3	29.85	758.1	77.9	25.5	51	s.			1		10			0.276	7.0		Karl Stancel.
Trieste	29.72	755.0	29.82	757.5	78.1	25.6	52	sw.			1		9			0.063	1.6		Royal Academy.
Vienna	29.13	739.8	29.82	757.3	70.5	21.4	75	se.			3		9			0.429	10.9	rain & hail	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.70	754.4	29.80	756.9	52.0	11.1	53	n.	25	11.2			6			0.110	2.8	squally	W. Boswell.
Armagh, Observatory	29.75	755 6	29.99	761.7	52.0	11.1	60	n.	9	4.0			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.87	758.7	54.3	12.4	59	wnw.	25	11.2			3					blue sky	John Hartnup.
Bolton, Sharples	29.27	743.4	29.80	756.9	52.8	11.6	62	nw.	18	8.0			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.39	746.5	29.79	756.7	55.7	13.2	67	ne.			3		7			0.11	2.8	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	83.0	28.3	67	ne.			2		3					d. clouds	Corpl. W. I. Gull, A. H. C
Cardington	29.75	755.6	29.84	757.9	57.2	14.0	95	nw.			0.6		7					d. clouds	John McLaren.
Chatham, School M. E.	29.72	754 9	29.85	758.2	52.1	11.2	76	nw.			1		10					raining	Corpl. G. A. Pickles.
Falmouth, Observatory	29.79	756.7	30.02	762.5	55.1	12.8	61	nw.			4		6					d. clouds	The Staff.
Fort Napier, Natal	27.74	704.6	29.96	761.0	68.0	20.0	70	e.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.49	749.0	29.72	754.9	78.0	25.6	91	s.			1		5					raining	J. W. Smith.
Galway, Queen's College	30.02	762.5	30.05	763.3	54	12.2	67	nw.			4		4			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.92	760.0	29.98	761.5	74.2	23.4	85	e			1		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.66	753.4	29.86	758.4	53.8	12.1	49	nnw.			6		8					raining	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.68	753.9	29.85	758.2	53.5	11.9	67	nw.			3		9					showery	The Staff.
Guernsey	29.68	753.9	29.98	761.5	58.0	14.4	64	nw.			2		2					blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.83	757.7	29.87	758.7	54.6	12.6	59	nw.	9	4.0			5					d. clouds	The Staff.
Leicester, Museum	29.56	750.8	29.82	757 4	55.0	12.8	59	nw.			2		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.87	758.7	29.94	760.5	76.0	24.4	84	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.17	766.3	83.2	28.4	67	se.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.33	745.0	29.86	758.4	50.9	10.5	81	nw.			6		7					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.64	752.8	29.86	758.4	54.0	12.2	55	nw.			3		7					d. clouds	The Staff.
Plymouth	29.88	758.9	29.96	761.0	60.0	15.6	61	wnw.			3		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.79	756.7	29.89	759.2	50.1	10.1	72						2					blue sky	Rev. C. Clouston, LL.D.
Scutari Cemetery, Turkey	29.82	757.4	29.88	758.9	84.8	29.3	51	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.56	750.8	29.83	757.7	58.9	14.9	73	nw.			3		4			0.03	0.8	d. clouds	W. F. Cooper.
Siloth Rectory	29.80	756.9	29.83	757.7	60.2	15.7	56	nnw.			2		6			0.045	1.2	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.84	757.9	54.1	12.3	49	nw.	15	6.7			10			blank	blank	overcast	W. C. Carlisle.
Truro, Royal Institution	29.96	761 0	30.04	763.0	62	16.7	56	nw.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.12	765.0	30.15	765.8	51.9	11.1	84	nw.	19	8.5			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.61	752.1	30.00	762.0	71.6	22.0	71	nw.	16.2	7.2		2 c	2 n	w.	nw.	0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.26	768.6	30.30	769.6	62	16.7	59	sw.	7	3.1		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.19	766.8	30.25	768.3	62	16.7	68	w.	4	1.8		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.86	758.4	30.05	763.3	64.4	18.0	67	w.			2	6 cs	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	30.16	766.1	30.21	767.3	58.0	14.4		w.			1		0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.10	764.5	30.12	765.0	68	20.0	90	sw.	20	8.9		0	0			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.87	733.3	29.68	753.9	56	13.3	96	nw.	3	1.3		0	0			0.41	10.4	clear	James Stewart.
Fredericton, N. B	30.24	768.1	30.30	769.6	63.0	17.2	57	sw.	3	1.3		2 c	0			0	0	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	28.90	734.0	29.97	761.2	62.0	16.7	89	s.	5	2.2		2 cs	0			0	0	fine	Jas. Grant.
Halifax, N. S*	30.24	768.1	30.36	771.1	58	14.4	78	se.	2	0.9		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.54	750.3	29.92	760.0	63.7	17.6	75	sw.			2	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.72	754.9	30.04	763.0	63	17.2	60	s.	14	6.3		8 ck	0	sw.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.26	768.6	30.30	769.6	67.0	19.4	62	w.			2	2 c	0	w.		0	0	blue sky	C. H. Rigby.
London, Ontario	29.09	738.9	29.96	761.0	64.7	18.2	83	s.				0	4 ks			0	0	d. clouds	E. B. Reed.
Montreal, Quebec*	29.90	759.4	30.10	764.5	66	18.9	68	sw.	11	4.9		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.80	756.9	30.04	763.0	63.2	17.3	76	s.				8 ck	0			inap.	inap.	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.18	741.2	29.86	758.4	63	17.2	78	s.	13	5.8		5 k	5 ks	w.	w.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.27	743.4	29.99	761.7	60.7	15.9	88	sw.			1	0	9 ks			0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.30	744.2	29.96	761.0	63	17.2	78	s.	7	3.1		5 c	0	sw.		0	0	fair	H Morgan.
Port Stanley, Ontario	29.33	745.0	29.96	761.0	65	18.3	78	e.	5	2.2		5 k	0	w.		0	0	fair	M. Payne.
Quebec, Quebec*	29.80	756.9	30.15	765.8	62	16.7	84	calm	0	0		10 cs	0			0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.46	748.3	29.91	759.7	58	14.4	83	e.	6	2.7		0	8 ks		w.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.25	768.3	30.30	769.6	54	12.2	73	se.	1	0.4		2 c	0	nw.		0	0	clear	
St. John, N. B	30.16	766.1	30.32	770.1	57.0	13.9	81	sw.	8	3.6		1 c	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F	30.23	767.8	30.48	774.2	50	10.0	72	s.			1	0	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F			30.32	770.1	53.6	12.0		calm			0					0	0		The Commandant.
Saugeen, Ontario*	29.15	740.4	29.84	757.9	66	18.9	76	n.	20	8.9			10 ks			0	0	cloudy	
Stratford, Ontario	28.70	729 0	29.94	760.5	64.9	18.3	83	sw.	7	3.1		cs; ck	0		w.	0	0	blue sky	G. J. Macgregor, M A.
Sydney, C. B*	30.28	769.1	30.34	770.6	64	17.8	65	sw.	8	3.6		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.61	752.1	29.99	761.7	60	15.6	72	e.	3	1.3		5 cs	0			0	0	fair	Magnetic Observatory.
Windsor, N. S	30.22	767.6	30.32	770.1	56.0	13.3	75	s.	2	0.9		0	0			0	0	blue sky	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.94	735.1	29.97	761.2	66.9	19.4	80	s.	16	7.2		2 cs	0	w.		0	0	hazy	Prof Wolverton, M.A.
Yarmouth, N. S*	30.28	769.1	30.35	770.9	58	14.4	67	s.	1	0.4		8 c	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CAPE COLONY.																			
Cape St. Francis Lt. House	30.02	762.5	30.05	763.3	61.0	16.1	77	sw.	10.1	4.5		0	2 s			0	0	clear	John Duthie
Springbok Fontein	28.06	712.7			62	16.7	27	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.74	755.3	29.85	758.1	86.9	30.5	35	e.			3		8			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.79	756.6	29.81	757.2	73.0	22.8	91	wsw.	1.8	0.8			10 k			0.106	2.7	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.62	752.3	29.67	753.5	67.6	19.8	68	ssw.	16	7			2						Oversergent Fischer.
Fanoe	29.62	752.3	29.64	752.8	59.9	15.5	72	ssw.			4		7						Overloerer Lauridsen.
Godthaab, Greenland	29.98	761.4	30.02	762.5	33.6	0.9	98	ssw.			2–4		10					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.94	760.5	29.99	761.7	40.3	4.6		s.			2		8						
Stykkisholm, Iceland	30.06	763.6	30.11	764.7	50.9	10.5	93	w.			2		8						A. O. Thorlacius.
Thorshavn	30.04	763.0	30.06	763.6	49.1	9.5	75	ne.	18	8			3						Overloerer Bergh.
Vestervig	29.52	749.7	29.61	752.0	60.6	15.9	77	ssw.			6		3						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.65	753.2			91.8	33.2		ene.	6.3	2.8		0	0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.43	747.6	30.07	763.8	64.8	18.2	84	ne.			1		10 n			0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.43	747.6	29.98	761.6	58.6	14.8	61	sw.			3		n		ne.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.84	757.8	29.91	759.8	76.6	24.8	66	nw.			1		8		sw.	0.374	9.5	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.39	746.6	29.94	760.5	62.6	17.0	94	wnw.			2	0	8 kn		wsw.	0.276	7.0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.65	753.2	29.91	759.8	61.0	16.1	41	w.			3		5		w.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.00	736.6	29.87	758.8	64.4	18	80	wsw.			1	0	5 cn		wsw.	0.51	13.	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.78	756.3	30.03	762.8	62.4	16.9	61	nw.			1		8		nnw.	0.004	0.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.42	747.2	29.96	760.9	61.7	16.5	46	wnw.			4		n		wnw.	0.12	3.		M. Malet, Director.
Brest, Naval Observatory	29.84	757.8	30.08	764.0	59.4	15.2	68	nw.			2		8		nw.	0.010	0.3		M. de Kermarés, Dir.
Caen, Normal School	29.86	758.4	29.93	760.2	62.2	16.8	53	w.			2		5		nw.	0.08	2.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.57	751.1	29.88	759.0	61.9	16.6	66	sw.			6		5		wnw.	0.020	0.5	cloudy	M. Jadot, Director.
Charleville, Normal School	29.37	746.1	29.88	758.9	62.2	16.8	52	nnw.			2		8			0.031	0.8	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.61	726.8	29.94	760.4	64.8	18.2	46	ne.			1		10		w.	0.024	0.6	covered	M. Alluard, Director.
Cluny, Normal School	29.09	738.8	29.91	759.7	65.7	18.7	64	nw.			1		3		w.	0.189	4.8		M. de Villemontée, Dir.
Commercy, Normal School	29.07	738.3	29.91	759.8	59.9	15.5	44	w.			4		n	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.47	697.8	29.94	760.4	66.2	19	54	se.			2	0	3 k			0.08	2.		M. Jeangirard, Director.
Gréasque, du Rhone	28.81	731.7	29.89	759.2	75.2	24	49	sw.			2		5		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.11	739.5	29.86	758.5	73.4	23	52	wnw.			2	ck	0	sw.		0.059	1.5		M. Ablard, Director.
Guéret, Normal School	28.41	721.7	29.97	761.3	59.9	15.5	62	sw.			1	0	5 k		w.	0	0	fair	M. Delorme, Dir.
Lamballe, Normal School	29.86	758.4	30.13	765.2	56.5	13.6	93	nw.					k		nw.	0.012	0.3		M. Ollitrault, Director.
Lescar, Normal School	29.45	747.9	30.00	762.1	63.5	17.5	70	w.			1		10			0.157	4.0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.94	760.4	30.04	763.0	60.4	15.8	59	nw.			1		8	calm	nw.	0.028	0.7	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.90	734.0	29.93	760.3	66.4	19.1	53	nnw.			1	5 ck	0			0.126	3.2	cloudy	M. André, Director.
Mans, Normal School	29.68	753.8	29.98	761.6	57.2	14	71	n.			3		5		sw.	0	0	cloudy	M. Piboën, Director.
Marseille, Observatory	29.67	753.7	29.94	760.4	70.9	21.6	71	sw.			1		2		e.	0	0		M. Stephan, Director.
Montlouis	24.82	630.3	29.66	753.3	56.8	13.8	60	nw.	13.0	5.8			7	w.		1.213	30.8		M. Cave for Dr. Fines.
Montpellier, Normal School	29.78	756.4	29.90	759.5	76.3	24.6	63	nw.			3		2		nw.	1.083	27.5	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.12	739.7	29.89	759.3	62.2	16.8	64	wsw.			2		kn		w.	0.016	0.4		M. Hasse, Director.
Nantes, Observatory	29.88	759.0	30.04	763.1	62.8	17.1	72	nw.			0–1	0	9 kn; n		nw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.85	758.2	29.96	761.0	72.5	22.5	54	nw.	7.4	3.3			10		w.	0.094	2.4		Dr. Fines, Director.
Pic-du-Midi, Summit	21.23	539.2			37.4	3.0		sw.			3		5		sw.	0.039	1.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.87	733.2	29.89	759.3	72.1	22.3	56	nw.			1	0	2 k		nw.	0.228	5.8	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.13	638.2			44.4	6.9	80	w.			3		8		w.	0.059	1.5	¾ covered	M. Alluard.
Rochefort, Naval Obs'y	29.99	761.8	30.02	762.6	70.5	21.4	48	wnw.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.76	756.0	29.97	761.3	65.8	18.8	53	w.			1		2		se.	0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.84	707.0	29.94	760.4	63.5	17.5		nw.			1		5			0.016	0.4	fair	M. Seger, Director.
Rouen, Normal School	29.77	756.1	29.82	757.3	60.4	15.8	49	wnw.			2		5	wnw.		0.091	2.3	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.78	756.4	29.94	760.5	61.7	16.5	43	w.			2		8		w.	0	0		M. Renou, Director.
Toulouse, Observatory	29.35	745.5	30.08	763.9	62.1	16.7	73	wsw.			1		10	nw.		0	0	covered	M. Baillaud, Director.
Tours	29.81	757.2	29.99	761.7	73.4	23.0	52	sw.			1		5	w.	w.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.45	748.0	29.94	760.5	62.2	16.8	41	w.			3					0.024	0.6		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.91	759.6	30.06	763.4	67.5	19.7	65	w.	9.8	4.4		0	9 k		w.	0.047	1.2		M. Cartier, Director.
GERMAN.																			
Anshach	28.45	722.5	29.85	758.3	64.4	18.0	66	w.			2		6	w.		0.457	11.6		Prof. Jnedt.
Bamberg	28.95	735.5	29.80	756.8	69.8	21.0	55	w.			3		7 ks		w.	0.079	2.0		Prof. Dr. Hoh.
Berlin	29.58	751.4	29.72	754.9	75.2	24.0	59	nw.			1		7			0	0		Dr. Sensch.
Breslau	29.27	743.4	29.80	756.8	80.1	26.7	43	s.			5		9	wsw.		0	0	light haze	Royal University Obs'y
Carlsruhe	29.44	747.8	29.90	759.4	63.3	17.4	73	sw.			2		10	w.		0.142	3.6		Albert Senz.
Cassel	29.06	738.2	29.78	756.3	67.6	19.8	46	s.			6		8	s.		0.008	0.2		Dr. H. Möhl.
Frankfort-on-the-Main			29.82	757.4	70.2	21.2	48	wsw.			2		7			0.012	0.3		Physical Society.
Friedrichshafen	28.49	723.7	29.86	758.5	68.5	20.3	74	sw.			1		8	wnw.		0.295	7.5		Wilhelm, Chief Tel.
Hamburg	29.65	753.1	29.74	755.4	65.7	18.7	67	ssw.			5		8	ssw.		0	0		E. Preller.
Kiel	29.68	753.9	29.70	754.3	66.0	18.9	53	sw.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.37	745.9	29.78	756.5	63.0	17.2	83	wnw.			2		10	wsw.		0.063	1.6	raining	H. Leppig, Asst.
Magdeburg	29.58	751.2	29.76	755.8	63.7	17.6	78	sse.			1		10	w.		0.528	13.4		Weather Observatory
Memel	29.84	757.8	29.88	759.0	75.9	24.4	43	ese.			4		8 cs						Issermann.
Munich	28.07	712.9	29.92	760.0	61.0	16.1	83	nw.			1		9	nw.		0.142	3.6		Central Station.
Neufahrwasser	29.74	755.3	29.75	755.7	78.6	25.9	55	se.			4		9			0.213	5.4		A. Lothes.
Neustadt, Palatinate	29.30	744.2	29.82	757.5	65.5	18.6	53	w.			2		10	w.		0	0		Dicknether.
Stuttgart	28.95	735.4	29.83	757.6	62.6	17.0	65	sw.			1		10			0.177	4.5		Prof. Dr. Schoder.
Wustrow	29.76	754.3	29.72	755.0	64.8	18.2	70	sw.			2		10 s			0.118	3.0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.50	749.2	29.85	758.3	86.4	30.2		e.			1.5		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.41	746.9	29.46	748.2	89.9	32.2	67	sw.	24.0	10.7			7		sw.	0	0	d. clouds	
Deesa	28.99	736.4	29.44	747.8	98.8	37.1	31	sw.	15.0	6.7			9	sw.	sw.	0.32	8.1	d. clouds	
Bombay	29.60	751.8	29.64	752.7	86.4	30.2	76	sw.	13.0	5.8			6	w.		0.01	0.3	d. clouds	
Poona, Yarrowda	27.80	706.2	29.64	752.8	81.8	27.7	58	sw	23.0	10.3			8			0	0	d. clouds	
Trichinopoly	29.40	746.6	29.67	753.5	95.7	35.4	45	wnw.	1.0	0.4			0			0	0	blue sky	
Belgaum	27.16	690.0	29.68	754.0	76.3	24.6	77	w.	11.0	4.9			3	w.		0.15	3.8	d. clouds	
Lahore	28.64	727.4	29.33	745.0	106.3	41.3	21	calm	0	0			2			0	0	d. clouds	
Roorkee	28.46	722.8	29.31	744.4	99.3	37.4	21	w.	10.0	4.5			5	w.		0	0		
Agra	28.84	732.5	29.38	746.3	94.1	34.5	36	nw.	8.0	3.6			8		nw.	0	0	d. clouds	
Nagpur	28.52	724.4	29.56	750.8	78.5	25.8	89	calm	0	0			10		nw.	0.38	9.6	overcast	
Jubbulpore	28.18	715.7	29.51	749.5	83.8	28.8	68	calm	0	0			10		nw.	0	0	overcast	
Lucknow	29.02	737.0	29.38	746.3	92.1	33.4	56	ssw.	3.0	1.3			10	s.		0.43	10.9	overcast	
Allahabad	29.12	739.6	29.42	747.4	86.7	30.4	71	e.	4.0	1.8			10		w.	0	0	overcast	
Patna	29.22	742.3	29.41	747.0	77.3	25.2	94	n.	10.4	4.6			10	n.	n.	6.35	161.3	raining	
Hazaribagh	27.46	697.5	29.45	748.1	75.5	24.2	91	w.	12.8	5.7			10		w.	0.23	5.8	drizzling	
Cuttack	29.40	746.7	29.48	748.7	87.9	31.1	73	nne.	3.0	1.3			5			0	0	d. clouds	
Calcutta, Alipore	29.44	747.7	29.46	748.2	85.8	29.9	76	ssw.	8.0	3.6			7	sw.	sw.	0	0	d. clouds	
Dhubri	29.38	746.2	29.50	749.2	81.2	27.3	88	ene.	8.0	3.6			10		wsw.	0.65	16.5	overcast	
Chittagong	29.53	750.0	29.62	752.3	78.7	25.9	95	sse.	7.4	3.3			8	s.	w.	0	0	d. clouds	
Sibsagar	29.21	741.9	29.54	750.3	84.6	29.2	85	sw.	2.0	0.9			8	w.	w.	0.45	11.4	d. clouds	
Jeypore	28.05	712.6	29.44	747.9	93.3	34.1	60	nne.	5.6	2.5			6		nne.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Zanzibar	30.00	761.9	30.02	762.5	84.0	28.9	60	se.	8.1	3.6			4	s.		0	0	d. clouds	
Bellary	28.17	715.5			94.0	34.4	34	w.	12.	5.4		4 ck	0			0	0	d. clouds	
ITALIAN.																			
Udine	29.42	747.3	29.82	757.4	76.3	24.6	60	sw.	1.3	0.6			8			0.551	14.0		Prof. Giovanni Olodig.
Milan	29.34	745.2	29.85	758.1	73.0	22.8	57	sw.	4.9	2.2			6	sw.		0.343	8.7		Prof. G.V. Schiapparelli.
Padua	29.72	754.9	29.83	757.6	74.3	23.5	55	wsw.	2.5	1.1			6	wsw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.3	29.84	757.8	70.3	21.3	64	ne.	1.3	0.6			4	w.		0	0		Prof. F. F. Denza.
Genoa	29.71	754.6	29.90	759.4	68.9	20.5	70	e.	6.9	3.1			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.98	710.5	29.86	758.4	68.2	20.1	62	e.			2		3	sw.		0	0		Prof. D. C. Bruno.
Pesaro	29.80	756.8	29.84	758.0	69.4	20.8	76	ne.	4.9	2.2			8			0.157	4.0		Prof. Luigi Guidi.
Florence	29.62	752.3	29.87	758.7	75.9	24.4	52	sw.			2		4			0	0		Prof. Costantino Pittei.
Leghorn	29.77	756.2	29.85	758.3	71.6	22.0	66	w.	3.8	1.7			5	w.		0	0		Prof. P. Monte.
Rome	29.73	755.2	29.90	759.5	75.0	23.9	55	w.	8.7	3.9			3	sw.		0.307	7.8		Prof. P. Tacchini.
Lecce	29.63	752.7	29.87	758.8	79.9	26.6	39	sw.	14.3	6.4			2			0	0		Prof. C. de Giorgi.
Cosenza	29.07	738.3	29.91	759.8	85.3	29.6	67	wsw.	3.1	1.4			4	sw.		0	0		Prof. D. Conti.
Cagliari	29.72	755.0	29.91	759.8	76.6	24.8	42	nw.			4		2			0.098	2.5		Prof. A. Pacinotti.
Palermo	29.73	755.1	29.97	761.3	73.9	23.3	56	ne.	8.7	3.9			3			0.028	0.7		Prof. G. Cacciatore.
Syracuse	29.87	758.6	29.91	759.7	74.3	23.5	65	nne.	7.4	3.3			0			0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.44	747.7	29.95	760.6	71.2	21.8	72	s.	8.7	3.9			8	w.		0.130	3.3		Prof. F. Brioschi.
Stelvio	22.13	562.2			45.5	7.5	79	ne.			2		8			0.268	6.8	covered	Prof. P. F. Denza.
Valdobbia	22.15	562.7			43.2	6.2	73	e.			6		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.95	760.8	29.98	761.7	64.5	18.1	88	calm			0	10 ck	0	nw.		0	0	cloudy	H. Hattori.
Awomori	29.92	759.9	29.95	760.7	64.8	18.2	73	se.	2.5	1.1		5 cs	1 s	w.		0	0	fair	K. Ogawa.
Hamamatsu	30.07	763.8	30.10	764.5	67.6	19.8	83	calm			0	2 c;ck	0	w.		0	0	clear	Y. Sekigawa.
Kanazawa	29.90	759.4	30.00	761.9	70.0	21.1	82	ese.	3.6	1.6		9ck;cs	0			0	0	cloudy	S. Endo.
Kagoshima	30.01	762.3	30.02	762.6	72.8	22.7	95	calm			0		10 s			0.177	4.5	overcast	G. Miyanohaza.
Kioto	29.88	758.9	30.05	763.3	70.0	21.1	75	sse.	2.5	1.1		5 cs	0			0	0	fair	M. Tojima.
Kochi	30.07	763.7	30.09	764.2	72.3	22.4	83	ne.	4.5	2.0			10 s		se.	0.010	2.5	overcast	K. Kusunose.
Minsaka	30.02	762.6	30.05	763.3	72.1	22.3	97	ne.			1		10 n		ene.	0.508	12.9	raining	K. Masusaki.
Miyako	29.86	758.5	29.97	761.3	61.0	16.1	81	wsw.	1.8	0.8		10 ck	0			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.79	756.6	29.99	761.7	74.9	23.8	89	se.	3.6	1.6			10 s		se.	0.480	12.2	overcast	S. Takehayashi.
Niigata	29.97	761.2	30.00	762.0	65.6	18.7	86	ne.	1.3	0.5		5 cs;c	0	nw.		0	0	fair	M. Morita.
Nobiru	29.95	760.7	29.96	761.1	66.9	19.4	93	sse.	5.1	2.2		6 cs	0	w.		0	0	fair	H. Midzushina.
Numazu	30.04	763.0	30.08	764.0	70.8	21.6	71	sw.			4		10ks;s		w.	0	0	cloudy	R. Kaneda.
Osaka	30.05	763.3	30.07	763.7	70.8	21.6	81	w.	7.1	3.1		0	0			0	0	clear	H. Omura.
Sakai	29.98	761.4	29.99	761.6	71.4	21.9	71	calm			0	1 cs	0	wnw.		0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	29.95	760.7	30.02	762.6	68.2	20.1	82	s.	10.2	4.6		5 cs	0	ne.		0	0	fair	The Staff.
Wakayama	30.01	762.3	30.06	763.6	71.8	22.1	74	s.	4.0	1.8		5 ck	4 k	ssw.		0	0	cloudy	K. Sakai.
Shimonoseki	29.86	758.5	30.01	762.2	72.3	22.3	83	e.			2		10 ks			0	0	cloudy	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.92	760.0	30.11	764.8	73.5	23.1	64	ese.	12.5	5.6		1 cs	2 k			0.03	0.8	clear	The Staff.
MEXICAN.																			
Guanajuato	23.70	601.9	29.92	759.9	60.3	15.7	81	e.	2.2	1.0		3 c	1 k	ne.	ne.	0	0	fair	Prof. Vicente Fernandez
Leon	24.32	617.7	29.92	760.0	63.3	17.4	80	n.	0.9	0.4		8 c	2 k			inap.	inap.	covered	Prof. M. Leal.
Mazatlan	29.65	753.1	29.91	759.6	77.0	25.0	86	n.	1.6	0.8		4 cs	0	e.		0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					74	23.3	84	se.	9.8	4.4		0	2 ck		se.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.80	756.9	29.80	756.9	55.9	13.3		wsw.			5					0	0		
Groningen	29.60	751.8	29.65	753.2	59.0	15.0		sw.			6					0.055	1.4		
Helder	29.60	751.9	29.60	751.9	56.1	13.4		sw.			5					0	0		
Hellevoetsluis	29.73	755.2	29.73	755.2	53.1	11.7	79	wsw.			0					0.035	0.9		
Utrecht	29.71	754.6	29.76	755.8	57.2	14.0	58	sw.			5		8			0.035	0.9	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.84	757.8			80.8	27.1	82	ne.	1.0	0.4			3			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.53	750.0	29.59	751.6	61.2	16.2	53	ene.	9	4			8			0	0		
Brono	29.89	759.1	29.93	760.1	54.0	12.2	61	n.			4		2			0	0		
Christiania	29.54	750.3	29.09	754.0	52.7	11.5	91	n.	7	3			10			0.815	20.7	raining	
Gjæsvær	29.74	755.5	29.77	756.1	45.1	7.3		wsw.			6		10						
Lodingen	29.82	757.5	29.87	758.7	49.1	9.5	71	wsw.			4		8			0.020	0.5		
PORTUGUESE.																			
Angra, Azores	29.80	757.0	29.96	761.0	64.8	18.2	96	se.	18.1	8.1			10			0.445	11.3		Dr. J. A. Sampaio.
Campo Major	28.94	735.1	29.91	759.6	75.6	24.2	45	wnw	3.1	1.4			5			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.05	763.2	30.13	765.4	70.9	21.6	75	se.	5.6	2.5			0			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.69	754.1	30.01	762.3	73.2	22.9	54	nnw.	7.4	3.4			5	w.		0	0		The Staff.
Ponta Delgada, Azores	29.92	760.0	29.99	761.8	66.9	19.4	92	se.	11.9	5.3			10			0	0		
Saint Paul de Loando	29.80	757.0	30.01	762.2	72.3	22.4	88	nnw.			1		10			0	0		
San Salvador	28.11	714.0	29.93	760.3	80.4	26.9	54	sw.			10		2			0	0		
Serra da Estrella	25.32	643.1	29.94	760.5	59.5	15.3	55	nnw.	10.7	4.7			0			0	0		
RUSSIAN.																			
Akmolinski	28.81	731.8	29.83	757.7	77.7	25.4	18	sw.	18	8		1 c	0			0	0		Major K. Lasarew.
Archangel	29.73	755.2	29.75	755.7	71.6	22.0	53	w.	4	2		0	4 ks			0.177	4.5		Capt. Sselivserstow
Ashurada	29.83	757.6	29.73	755.2	82.8	28.2	73	w.	9	4		0	3 k			0	0		
Astrakhan	29.87	758.8	29.79	756.7	89.2	31.8	38	sw.	11	5			10 kn			0	0		Capt. Wisganow.
Baku	29.81	757.2	29.70	750.0	82.4	28.0	43	nnw.	18	8		0	5 ks			0	0		
Barnaul	29.40	746.7	29.89	759.1	58.6	14.8	70	sse.	9	4			10			0.075	1.9		Meteorological Obs'y
Bieloserskr	29.44	747.7	29.88	759.0	75.7	24.3	50	nnw.	0	0		0	2 ks			0	0		
Dorpat	29.73	755.2	29.97	761.1	72.3	22.4	42	calm	0	0			9 ks			0	0		Observatory.
Ekaterinburg	28.85	732.8	29.78	756.5	64.2	17.9	87	nnw.	4	2			10 n			0.815	20.7		Meteorological Obs'y
Elissawetgrad	29.56	750.9	29.99	761.8	77.0	25.0	43	nnw.	7	3		0	4 k			0	0		
Irkutsk	28.44	722.4	30.07	763.7	54.1	12.3	53	calm			0		7			0	0		
Kasalinsk	29.39	746.5	29.57	751.0	91.4	33.0	23	e.	4	2		0	0						
Kasan	29.47	748.4	29.70	754.3	82.2	27.9	42	wnw.	9	4		0	8 k			0	0		Observatory.
Kem	29.73	755.1	29.78	756.4	67.1	19.5	52	w.	18	8			9 k			0.024	0.6	heavy cld's.	
Kertch	29.88	758.9	29.90	759.5	77.0	25.0	58	n.	7	3		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.33	745.0	29.94	760.4	75.0	23.9	45	ne.	2	1		0	1 ks			0	0		Observatory.
Koslov	29.23	742.5	29.75	755.7	62.4	16.9	93	wnw.	4	2			10ks;n			0.984	25.0	raining	
Libau	29.83	757.7	29.85	758.3	76.3	24.6	37	se.	13	6			1			0	0		E. Quaas.
Lugan	29.55	750.6	29.73	755.1	77.2	25.1	57	wnw.	9	4			8			0	0		Meteorological Obs'y.
Moscow	29.38	746.2	29.83	757.7	70.0	21.2	66	n.	6.7	3.0			9 ks			0.657	16.7		Meteorological Obs'y
Nikolaiev	29.91	759.7	29.98	761.6	83.8	28.8	48	nnw.	9	4		0	1 k			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.49	749.1	29.58	751.3	58.5	14.7	55	ne.	2	1			10			0	0		Iwanow.
Pekin, China	29.68	753.8	29.82	757.4	80.1	26.7	53	calm	0	0		0	6 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.42	747.3	29.74	755.5	94.3	34.6	6	n.	4.5	2.0			0			0	0		
Petrozavodsk	29.64	752.9	29.83	757.6	75.0	23.9	39	w.	11	5		3 ck	0			0	0		Dr. Bergmann.
Pinsk	29.48	748.9	29.90	761.0	77.4	25.2	48	sse.	4	2		0	0			0	0		
Poti	29.87	758.8	29.91	759.6	77.9	25.5	80	sw.	4	2		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
St. Petersburg	29.94	760.4	29.96	761.0	63.0	17.2	75	nw.	13	6		0	2 s			0	0		Central Physical Obs'y.
Samarkand	27.43	696.7	29.73	755.2	85.8	29.9	34	se.	7.8	3.5		0	0			0	0		
Semipalatinsk	29.47	748.6	30.11	764.7	73.9	23.3	28	calm	0	0			3			0	0		Major Lasarew
Sevastopol	29.73	755.1	29.95	760.6	78.6	25.9	55	nw.	27	12		0	1 ks			0	0		
Staroi Bykhov	29.55	750.6	29.98	761.6	80.6	27.0	43	ne.	2	1		0	5 k			0	0	light clouds	
Tashkend	28.09	713.6	29.93	752.5	91.0	32.8	32	calm	0	0		0	1 s			0	0		Terch, A. M.
Tiflis	28.39	721.1	29.72	755.0	81.0	27.2	42	nw.	13	6		0	8 k			0	0		Physical Observatory.
Vernoe	27.42	696.4	29.83	757.6	69.1	20.6	42	calm	0	0		0	1 k			0	0		
Viatka	29.19	741.3	29.79	756.6	73.9	23.3	65	calm	0	0			10			0	0		
Warsaw	29.41	747.0	29.81	757.1	79.9	26.6	51	se.	16	7		4 cs	0			0.087	2.2		Astronomical Obs'y.
Yeniseisk	29.62	752.4	29.90	759.5	59.0	15.0	44	ssw.	4	2			10			0.461	11.7		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.02	762.5	52	11.1	93	n.			6	5	5	n.		0	0	cloudy	J. Youngclause
North Unst			29.78	756.4				ne.			7	0	3						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.89	759.2	29.99	761.8	75.2	24.0	67	s.	3.1	1.4		0	3			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.03	762.8	30.09	764.3	68.0	20.0	68	nw.	2.9	1.3			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.12	688.8	30.05	763.2	60.1	15.6	65	ne.	11.9	5.3		0	4			0	0		Domingo Martin.
Madrid, Royal Obs'y	27.74	704.6	29.87	758.6	78.8	26.0	33	sw.	8.5	3.8		0	5			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.78	756.5	29.91	759.7	85.3	29.6	46	se.	2.9	1.3		2	3	WnW.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.29	744.0	30.05	763.3	56.8	13.8	89	n.	7.8	3.5		10 n	8 k	n.	n.	0.232	5.9	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.15	740.5	30.04	762.9	63.3	17.4	60	n.	18.6	8.3			6			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	762.0	30.07	763.8	78.2	25.7	79	ese.	5.6	2.5		c;cs	ks	n.		0.07	1.7	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.8	29.93	760.2	77.5	25.3	93	nw.	0	0			10 n			0.512	13.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.92	759.9	30.01	762.3	78.6	25.8	49	wsw.	9.6	4.3		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.95	760.8	30.04	763.1	81.7	27.6	79	calm	0	0		3 cs	3 kn	e.	e.	0	0	cloudy	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.78	756.5	29.82	757.5	57.2	14.0	67	w.			4		10					raining	
Umea	29.83	757.6	29.88	758.9	64.4	18.0	39	sw.			4		6			0	0		
Hernosand	29.91	759.7	29.96	761.0	63.3	17.4	49	sse.			2		5			0	0		
Stockholm	29.69	754.0	29.86	758.5	66.9	19.4	58	sse.			4		10			0	0		
Wisby	29.79	756.6	29.85	758.1	63.0	17.2	57	e.			4		10					raining	
Sub-series.																			
Upsala	29.73	755.1	29.82	757.3	68.0	20.0	56	sw.	11.9	5.3			10		s.	0.043	1.1		S. G. Fineman.
SWISS.																			
Geneva	28.53	724.6	29.93	760.3	61.2	16.2	75	ssw.			2		10			0.504	12.8	covered	The Observatory.
TURKISH.																			
Constantinople			29.94	760.4	77.4	25.2	62	n.	22	10.0			2		e.	0	0		The Observatory.
Valona			30.09	764.3	86.9	30.5		sw.			1		0			0	0	stormy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.78	756.5	82.8	28.2	66	sw.			1		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.85	682.0			72	22.2	68									0	0	clear	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.14	765.5	30.22	767.6	66.5	19.2	56	s.	4	1.8		4ck;cs	0	W;sw.		0	0	fair	J. O. Barnes.
Alpena, Michigan	29.16	740.7	29.82	757.4	66	18.9	68	sw.	14	6.3		3 cs	3 ks	w.	w.	0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.02	635.5	29.77	756.1	41	5.0	62	ne.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.11	688.6	29.90	759.4	54	12.2	64	sw.	12	5.4		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.08	738.6	30.23	767.8	69.5	20.8	90	e	1	0.4		4 cs	0			0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	30.25	768.3	30.26	768.6	62	16.7	84	se.	2	0.9		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.08	764.0	30.27	768.8	71.5	21.9	90	ne.	2	0.9		7 k	0			0	0	fair	John Healy.
Baltimore, Maryland	30.20	767.1	30.25	768.3	65	18.3	68	s.	3	1.3		0	0			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.25	768.3	30.27	768.8	68.8	20.4	70	calm	0	0		0	0			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.45	748.0	29.47	748.5	40.3	4.6	88	e.	12	5.4			10 n			0.01	0.3	light rain	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.34	719.8	29.88	758.9	60.0	15.6	84	calm	0	0		4 c	2 k			0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.18	690.4	29.95	760.7	73	22.8	44	calm	0	0		1 c	0			0	0	clear	S. Wheaton.
Billings, Montana	26.73	678.9	29.87	758.7	45	7.2	63	calm	0	0		2 cs	0	w.		0	0	clear	T. Gibson.
Bismarck, Dakota	28.05	712.5	29.81	757.2	59	15.0	84	w.	2	0.9		1 cs	0			inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	30.27	768.8	30.30	769.6	62.5	16.9	86	e.	3	1.3		2 ck	0	nw.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.20	690.9	29.98	761.5	53	11.7	69	n.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.14	765.5	30.29	769.4	65.0	18.3	58	s.	9	4.0		6 c	2 s	w.		0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	82.0	27.8	80	s.	4	1.8		0	0			0	0	clear	E. C. Imlay.
Buffalo, New York	29.26	743.2	30.00	762.0	67.3	19.6	62	se.	14	6.3		2 cs	hz.	sw.		0	0	clear	W. Finn.
Buford, Fort, Dakota	27.91	708.9	29.87	758.7	59	15.0	78	sw.	3	1.3		0	2 s			0.03	0.8	clear	A. Schneider.
Burlington, Vermont																			D. N. Farnell.
Cairo, Illinois	29.74	755.4	30.13	765.3	77.8	25.4	77	s.	4	1.8		0	0			0.05	1.3	clear	W. H. Ray.
Cape Henry, Virginia	30.25	768.3	30.27	768.8	64.0	17.8	78	ne.	8	3.6		5 c	0			0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.21	767.3	30.24	768.1	63.0	17.2	73	se.	4	1.8		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.22	742.2	29.90	759.4	47	8.3	100	nw.			1		fg		nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	79	26.1	82	ne.	10	4.5		0	2 k		e.	0.19	4.8	clear	G. W. Davis.
Charleston, S. Carolina	30.16	766.1	30.21	767.3	75.0	23.9	85	ne.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.40	746.7	30.23	767.8	70.0	21.1	70	e.	2	0.9		10 cs	0	w.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.24	768.1	73.0	22.8	82	se.	3	1.3		6 k	0	s.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	29.83	757.7	51.6	10.9	77	calm	0	0		4 k	0	sw.		0	0	fair	E. McGovern.
Chicago, Illinois	29.22	742.2	29.91	759.7	67.9	19.9	83	sw.	9	4.0			10 s		sw.	0	0	cloudy	John Laurens.
Chincoteague, Virginia	30.24	768.1	30.26	768.6	64	17.8	63	e.	6	2.7		2 c	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.45	748.0	30.10	764.5	73.0	22.8	82	sw.	6	2.7			10 k		n.	inap.	inap.	cloudy	L. Dunne.
Cleveland, Ohio	29.26	743.2	29.99	761.7	72.2	22.3	64	s.	8	3.6		9 k	0	w.		0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.20	716.3	29.95	760.7	75	23.9	76	s.	4	1.8			8 ks		sw.	0	0	cloudy	T. J. Kenan.
Columbus, Ohio	29.21	741.9	30.05	763.3	70	21.1	78	s.	3	1.3		6 cs	4 s	s.	sw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.07	713.0	29.94	760.5	74.0	23.3	87	s.	10	4.5			10 n		s.	0.02	0.5	thund'r st'm	J. McGlone.
Davenport, Iowa	29.25	742.9	29.89	759.2	71	21.7	84	w.	6	2.7		0	8 s		sw.	0.07	1.8	cloudy	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	29.80	756.9	65	18.3	65	calm	0	0		0	5 s		sw.	0.18	4.6	fair	J. Williams.
Dayton, Washington T'y	28.26	717.8	30.00	762.0	56	13.3	72	s.	2	0.9		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.38	644.7	29.82	757.4	52	11.1	64	ne.	2	0.9		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del	30.25	768.3	30.27	768.8	61	16.1	87	e.	8	3.6		hz.	0			0	0	clear	T. S. Townsend.
Denver, Colorado	24.76	628.9	29.80	756.9	58.5	14.7	81	n.	6	2.7			10 s		w.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	28.99	736.3	29.87	758.7	69	20.6	90	w.	3	1.3		3 c	0	w.		0.09	2.3	clear	F. W. Conrad.
Detroit, Michigan	29.25	742.9	29.94	760.5	69.0	20.6	76	s.	5	2.2		10 k	0	nw.		0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.27	692.6	29.78	756.4	69	20.6	84	se.	4	1.8		5 ck	0	w.		0	0	fair	D. J. Carr.
Dubuque, Iowa	29.16	740.7	29.85	758.2	71.8	22.1	68	sw.	6	2.7		0	hz.			inap.	inap.	clear	J. Harvey Smith.
Duluth, Minnesota	29.03	737.3	29.76	755.9	58	14.4	100	calm	0	0		0	fg			0.15	3.8	clear	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho																			H. R. Boynton.
Eastport, Maine	30.24	768.1	30.31	769.9	58.0	14.4	64	s.	2	0.9		7 c	0	w.		0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.16	689.9	29.83	757.7	60	15.6	62	s.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.24	666.5	29.83	757.7	73.0	22.8	44	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.29	744.0	30.01	762.2	68	20.0	70	s.	12	5.4		8 cs	0	w.		0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.15	740.4	29.80	756.9	63.0	17.2	84	w.	7	3.1		0	3 s		w.	0.23	5.8	clear	George Heathcote.
Galveston, Texas	30.02	762.5	30.06	763.5	82	27.8	74	s.	7	3.1		0	5 ks		s.	0	0	fair	E. O'O. MacInerney.
Grand Haven, Michigan	29.23	742.4	29.88	758.9	61.5	16.4	90	s.	16	7.2			10s;fg			0	0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.23	640.8	29.77	756.1	57.9	14.4	49	n.	6	2.7		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.20	767.1	30.22	767.6	68	20.0	84	ne.	10	4.5		3 k	0	ne.		0	0	clear	R. M. Crawford.
Helena, Montana	25.79	655.0	29.91	759.7	57	13.9	69	w.	2	0.9		0	0			0	0	clear	H. W. Dodge.

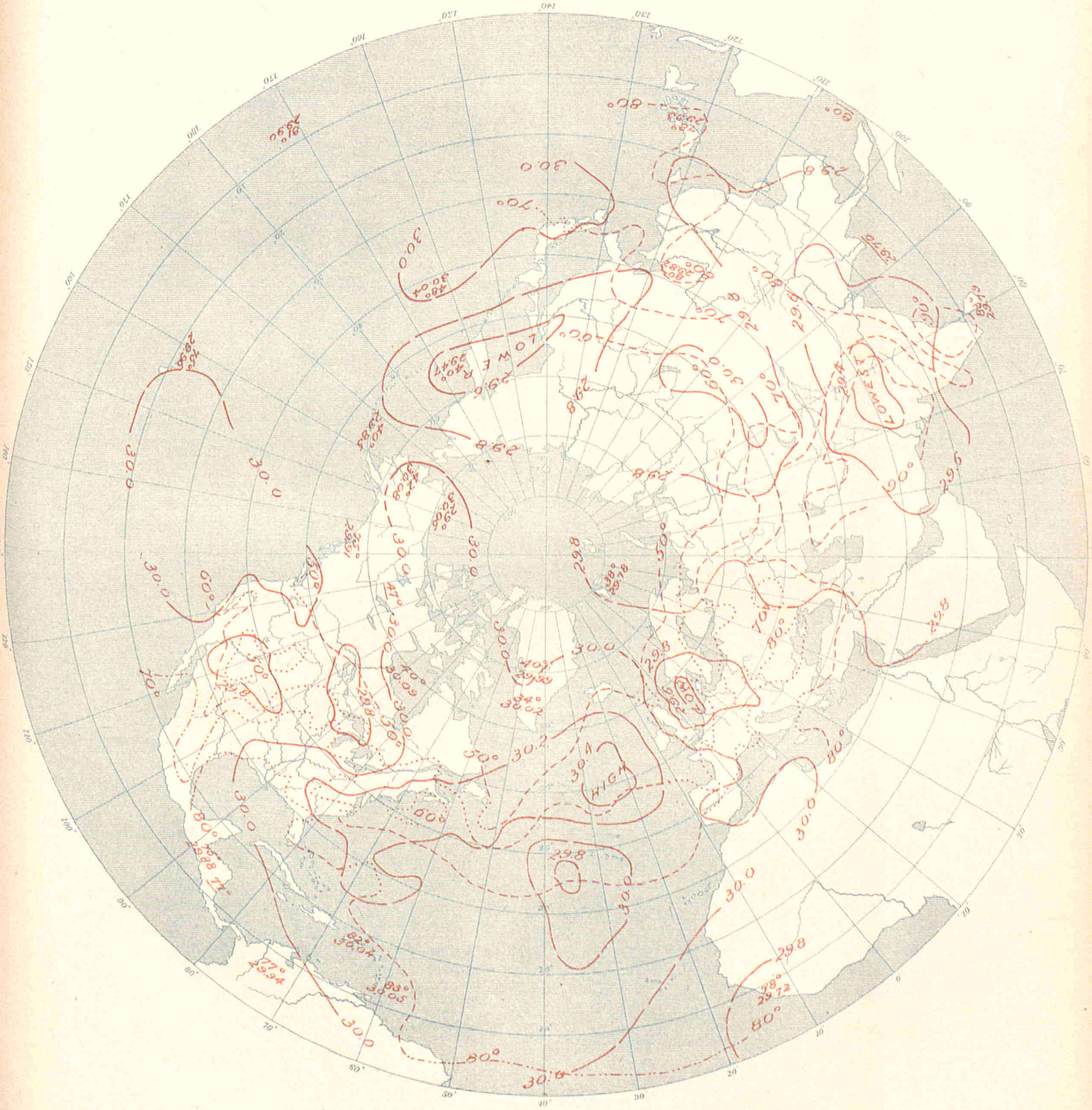
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.54	724.9	29.88	758.9	62.9	17.2	81	sw.	2	0.9		3 cs	0	w.		0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.23	742.4	30.01	762.2	71.7	22.1	82	s.	3	1.3		5 cs	3 n;hz	w.	w.	0.02	0.5	clearing	C. F. R. Wappenhans.
Indianola, Texas	29.97	761.2	30.00	762.0	79.0	26.1	92	s.	7	3.1		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	30.12	765.0	30.16	766.1	81.5	27.5	74	ne.	4	1.8		2 cs	0			0.11	2.8	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.24	742.7	29.88	758.9	71.0	21.7	84	s.	12	5.4			10 s		s.	0.64	16.3	cloudy	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	84.0	28.9	72	se.	10	4.5		0	5 k		se.	0.68	17.3	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.25	768.3	30.27	768.8	65	18.3	78	ne.	15	6.7		5 cs	0	w.		0	0	fair	H. Mc P. Baldwin
Knoxville, Tennessee	29.20	741.7	30.21	767.3	69.8	21.0	85	s.	1	0.4		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.02	737.1	29.78	756.4	77	25.0	69	s.	8	3.6		0	2 s			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.04	737.6	29.91	759.7	77	25.0	85	s.	3	1.3		2 cs	4 ks	w.	sw.	0.04	1.0	fair	A. W. Browne.
Lewiston, Idaho	29.15	740.4	29.97	761.2	57.8	14.3	67	calm	0	0		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.74	755.4	30.05	763.3	76	24.4	85	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	62	16.7	84	w.	2	0.9			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.52	749.8	30.07	763.8	76	24.4	69	s.	8	3.6		4 c	0			0	0	fair	L. M Dey.
Lynchburg, Virginia	29.56	750.8	30.23	767.8	67.8	19.9	59	se.	1	0.4		2 c	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.15	740.4	29.79	756.7	56.8	13.8	90	sw.	24	10.7			10 s		sw.	0.09	2.3	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.22	767.6	30.22	767.6	67.0	19.4	84	n.	12	5.4		6 cs	0	ne.		0	0	fair	William Daly.
Maginnis, Fort, Montana	25.56	649.2	29.89	759.2	55	12.8	47	w.	12	5.4		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.07	738.4	29.79	756.7	66	18.9	68	w.	2	0.9		0	0			0.42	10.7	clear	J. Gilligan.
Memphis, Tennessee	29.75	755.6	30.08	764.0	79	26.1	69	se.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.12	739.6	29.86	758.4	68	20.0	76	sw.	11	4.9		0	7 s		w.	0	0	fair	W. Line.
Missoula, Fort, Montana	26.75	679.4	30.01	762.2	55	12.8	64	e.	8	3.6		4 k	0	n.		0	0	fair	J. H. Young.
Mobile, Alabama	30.08	764.0	30.12	765.0	80.5	26.9	85	e.	5	2.2		0	0			0.88	22.4	clear	C. A. Read.
Montgomery, Alabama	29.91	759.7	30.14	765.5	77	25.0	82	se.	8	3.6		0	7 k		e.	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.82	732.0	29.79	756.7	60	15.6	81	w.	5	2.2		0	0			0.39	9.9	clear	H. White.
Mt. Washington, N. H.	24.10	612.1	30.22	767.6	44.3	6.8	84	sw.	20	8.9		5 c	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.59	751.6	30.15	765.8	75.5	24.2	85	se.	3	1.3		7 cs	0	w.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.16	766.1	30.26	768.6	62	16.7	31	s.	2	0.9		0	2 k		s.	0	0	clear	J. H. Sherman.
New London, Connecticut.	30.25	768.3	30.30	769.6	67	19.4	63	ne.	1	0.4		2 c	0	ne.		0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	82.5	28.1	80	e.	4	1.8		0	2 k		e.	0	0	clear	M. Herman.
New York, New York	30.11	764.8	30.28	769.1	63	17.2	63	s.	1	0.4		1 cs	hz.			0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.24	768.1	30.27	768.8	69.6	20.9	72	ne.	5	2.2		3 cs	0	nw.		0	0	clear	Wm. Davis.
North Platte, Nebraska	27.08	687.8	29.88	758.9	66.6	19.2	80	e.	4	1.8			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y.	30.03	762.7	30.07	763.8	50.0	10.0	64	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.76	730.5	29.90	759.4	70.9	21.6	94	nw.	1	0.4		10 ck	fg.	nw.		0.05	1.3	cloudy	A. Pollak.
Ooglaamie, Alaska	30.04	763.0	30.06	763.5	29.0	— 1.7	100	nne.	6	2.7			10 n		ne.	0.01	0.3	light snow	P. H. Ray.
Oswego, New York	29.74	755.4	30.06	763.5	66.0	18.9	58	s.	12	5.4		0	1 s			0	0	clear	J. G. Linsley.
Palestine, Texas	29.53	750.0	30.07	763.8	77.0	25.0	85	s.	4	1.8		3 c	0			0	0	clear	J. W. Byram.
Pensacola, Florida	30.09	764.3	30.12	765.0	80.0	26.7	88	ne.	8	3.6		0	2 k		e.	0.08	2.0	clear	M. McGauran.
Philadelphia, Pa	30.18	766.6	30.28	769.1	65	18.3	78	s.	3	1.3		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.97	456.4	29.79	756.7	30	— 1.1	70	se.	18	8.0		0	0			0	0	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.27	743.4	30.06	763.5	70.0	21.1	73	s.	5	2.2		0	9 ks		nw.	0	0	cloudy	W. A. Reid.
Poplar River, Montana	27.76	705.1	29.86	758.4				sw.			4	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.22	742.2	29.89	759.2	66.0	18.9	78	s.	10	4.5		0	5 s		s.	0	0	fair	M. H. Perry
Portland, Maine	30.23	767.8	30.28	769.1	62	16.7	70	sw.	9	4.0		7 cs	0			0	0	fair	W. W. Eichelberger
Portland, Oregon	29.94	760.5	30.01	762.2	56.0	13.3	74	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					70	21.1	79	ne.	14	6.3		3 ck	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.76	628.9	29.78	756.4	42.0	5.6	40	calm	0	0		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.29	769.4	30.32	770.1	65	18.3	58	se.	4	1.8		2 c	0	w.		0	0	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.53	750.0	29.88	758.9	64	17.8	58	nw.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.47	748.5	30.02	762.5	53.8	12.1	86	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	59.5	15.3	81	s.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.43	747.5	30.02	762.5	74.0	23.3	84	s.	9	4.0		4ck;hz	0			1.24	31.5	fair	J. H. Weber.
St. Michael, Fort, Alaska	30.05	763.3	30.08	764.0	42	5.6	92	s.	6	2.7			10 n			0.11	2.8	light rain	A. P. Leavitt.
St. Paul, Minnesota	28.98	736.1	29.82	757.4	64.5	18.1	90	calm	0	0		0	hz.			0.23	5.8	clear	P. F Lyons.
St. Vincent, Minnesota	28.86	733.0	29.71	754.6	59	15.0	87	nw.	6	2.7		0	0			0.08	2.0	clear	C. B. Dilley
Salt Lake City, Utah	25.58	649.7	29.80	756.9	58	14.4	36	w.	4	1.8		3 k	0	w.		inap.	inap.	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.90	759.4	29.97	761.2	62.6	17.0	70	s.	1	0.4			10 s			0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.24	768.1	30.26	768.6	64.0	17.8	84	s.	3	1.3		0	0			0	0	clear	B. A. Blundon.
Sanford, Florida	30.08	764.0			75.5	24.2	97	e.	1	0.4			10 ks		e.	2.32	58.9	cloudy	J. B. Marbury.
San Francisco, California	29.92	760.0	29.99	761.7	55	12.8	90	sw.	8	3.6			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.13	765.3	30.22	767.6	76	24.4	85	n.	5	2.2		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.34	669.0	29.91	759.7	52	11.1	74	w.	5	2.2		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.81	757.2	30.04	763.0	78.5	25.8	89	calm	0	0		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.71	729.2	29.91	759.7	75	23.9	85	s.	8	3.6		6 c	0			0	0	fair	W. M. Mattingly.
Sitka, Alaska	30.19	766.8	30.25	768.3	44.5	6.9	77	w	3	1.3			9 ks		w.	0.33	8.4	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.54	750.3	30.00	762.0	78.3	25.7	88	calm	0	0		3 c	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.20	767.1	30.24	768.1	71	21.7	66	ne.	6	2.7		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.02	711.7	30.06	763.5	54	12.2	80	s.	1	0.4		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.35	745.5	30.02	762.5	72	22.2	94	sw.	8	3.6			10s;ks		sw.;w.	0.47	11.9	threatening	T. B. Jennings.
Starkville, Miss	29.67	753.6	30.14	765.5	80	26.7	82	se.	9	4.0		0	0			0	0	clear	C. Dill.
Stockton, Fort, Texas	26.95	684.5	29.87	758.7	72	22.2	90	se.	1	0.4		8 ck	0	sw.		0	0	cloudy	A. J. Warren.
Thomas, Camp, Arizona	27.19	690.6	29.82	757.4	61	16.1	42	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.25	742.9	29.93	760.2	74	23.3	68	sw.	10	4.5		5 c	0	w.		0	0	fair	A. Buell.
Tucson, Arizona	27.46	697.5	29.76	755.9	58	14.4	35	s.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Unalaska, Alaska	29.83	757.7	29.85	758.2	40	4.4	82	w.	4	1.8			10 n		w.	0.25	6.3	light rain	Samuel Applegate.
Verde, Fort, Arizona					55	12.8	47	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.86	758.4	30.11	764.8	78.0	25.6	88	se.	5	2.2		0	0			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.15	765.8	30.26	768.6	64.8	18.2	68	s.	4	1.8		1 cs	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.93	658.6	29.70	754.4	58.5	14.7	84	s.	4	1.8		0	4 k		s.	0	0	fair	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	30.20	767.1	30.25	768.3	68.5	20.3	78	ne.	9	4.0		hz.	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.59	726.2	29.87	758.7	69	20.6	78	sw	1	0.4		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.66	753.4	29.80	756.9	66.8	19.3	66	calm	0	0		0	hz.			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.05	763.3	79	26.1	76	calm	0	0			10 s		e.	0.07	1.8	cloudy	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	91	se.			2	5 ck	5 k	e.		0.900	24.4	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	740.2	29.94	760.5	77	25.0	94	calm			0	5 c	2 ks	s.	s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	92	ene.			1		10 ks		ene.	0.16	4.1	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	30.03	762.7	30.09	764.3	39.5	4.2	95	sw.	8	3.6		4 k	6 s	sw.	sw.	0	0	threatening	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 44° 32′, E. 14° 28′	29.85	758.2	72	22.2	80	calm			0		0?	calm						overcast?
H. M. Dockyard, Bermuda, Atlantic	30.15	765.8	77	25.0	82	wnw.			3		4	ssw.						d. clouds
H. M. S. Gannet, N. 32° 37′, W. 16° 55′	30.09	764.3	71.5	21.9	75	ese.			2		0							blue sky.
H. M. S. Iris, Port Said, Egypt	29.80	756.9	78	25.6	95	wnw.			3		0							blue sky.
S. S. Monarch, Trieste, Austria	29.80	756.9	74	23.3		wsw.			1		10							raining.
H. M. S. Minotaur, Arosa Bay, Spain	30.06	763.5	65	18.3	58	nne.			4		2	w.				1	wnw.	d. clouds.
H. M. S. Opal, Sierra Leone, Africa			82	27.8	83	calm			0		7	calm						d. clouds.
H. M. S. Superb, N. 40° 58′, E. 18° 04′ *	29.90	759.4	79	26.1	78	sse.			2		5	wnw.				2	w.	d. clouds.
H. S. M. S. Eugenie, N 39° 30′, W. 11° 32′	30.12	765.1	68.0	20.0	86	ne.			5		6							d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.23	767.8	62	16.7	77	sse.	7	3.1			5		w.	0	0			fair.
U. S. S. Constellation, Annapolis, Md *	30.25	768.3	66	18.9	64	ssw.			1		2		calm			sm'h		clear.
U. S. S. Lancaster, Kronstadt, Russia	30.02	762.5	64	17.8	94	wnw.			4		2		w.			sm'h		fair.
U. S. S. Nipsic, N. 39° 45 W. 68° 20′ *	30.21	767.3	55	12.8	81	ene.			3		2		se.			mod.	e.	clear.
U. S. S. Portsmouth, off Conimicut, R. I	30.34	770.6	72	22.2	85	ene.			2		5							fair.
U. S. S. Powhatan, Port Royal, S. C	30.17	766.3	75	23.9	95	nne.			2		2							clear.
U. S. S. Quinnebaug, Gaboon river, Guinea	29.99	761.7	80	26.7	78	ssw.			1		8		sw.			sm'h		fair.
U. S. S. Saratoga, N. 41° 10′, W. 72° 50′	30.31	769.9	62	16.7	100	e.			2–3		5		e.	0	0	sm'h		fair.
U. S. S. Vandalia, N. 22° 42′, W. 68° 39′	30.20	767.1	78	25.6	91	sse.			5		2		se.			long		fair.
U. S. S. Yantic, N. 42° 22′, W. 66° 30′	30.39	771.9	57	13.9	75	e.			2		0					sm'h		clear
S. S. Cottica, N. 6° 51′. W. 55° 16′	30.00	762.0	81.5	27.5	83	e.			4		8							d. clouds.
May Hulse, N. 3° 37′, W. 26° 52′	29.97	761.2	79	26.1	78	se.			2		7							d. clouds
H. P. M. S. Rio Lima, N. 15° 56′, W. 21° 10′			77.0	25.0	88	ne			3		3		ne.			3	ne.	d. clouds.
S. S. British Crown, N. 50° 11′, W. 23° 05′†	30.52	775.2	59	15.0		ne.			2		3		ne.	0	0	sm'h		fine.
S. S. British Prince, N. 39° 44′, W. 61° 34′ †	30.22	767.6	69	20.6		ene.			6		6		e.	0	0	mod.	e.	
S. S. Illinois, N. 46° 32′, W. 34° 40′	30.27	768.8	63	17.2		ese.			5		5		ese.			sm'h	e.	fine.
S. S. Ohio, Liverpool. Eng†	29.82	757.4	54	12.2		nnw.			6		3		nnw.	8 h'r	8 h'r			clear.
S. S Pennsylvania, Philadelphia, Pa†	30.23	767.8	71	21.7		nw.			3		2			0	0			clear.
S. S. British Princess, N. 41° 50′, W. 47° 34′			66	18.9		ne.			4		5		nnw.	14 h'r	14 h'r	light	nnw.	raining.
S. S. Circassian, N. 46° 43′, W. 56° 24′	30.38	771.6	52	11.1	86	calm			0		2					sm'h		d. clouds.
S. S. Grecian, Montreal, Canada	30.08	764.0	72	22.2	90	sse.			1		0			0	0			clear.
S. S. Nova Scotian, Halifax, N. S.	30.38	771.6	57	13.9		sse.			2		0					sm'h		clear
S. S. Polynesian, N. 55° 30′, W. 13° 35′	30.26	768.6	56	13.3		nnw.			4		8		ne.	0	0	mod.	nw.	cloudy.
S. S. Prussian, N. 53° 02′, W. 9° 31′	30.02	762.5	56	13.3		wnw.			5		4		nw.			cross	wnw.	
S. S. Manitoban. N. 53° 39′, W. 10° 27′	30.15	765.8	50	10.0	79	nne.			5		3		nne.	0	0	mod.	n.	fine.
S. S. Scandinavian, N. 43° 11′. W. 55° 17′	30.30	769.6	54	12.2		nne.			4		3		nne			sm'h		d. clouds.
S. S. Alvo, Mayagues, Porto Rico. W. I*	30.02	762.5	78	25.6		var.			1–2		6		var.	2 h'r	2 h'r			showery.
S. S. Alene, Kingston, Jamaica, W. I†	30.07	763.8				var.			2–4		0			0	0			fine.
S. S. Anchoria, N. 55° 05′, W. 14° 02′†	30.25	768.3				nnw.			4		6		nnw.	2 h'r	2 h'r	mod.	n.	cloudy.
S. S. Dorian, N. 53° 16′, W. 5° 30′	30.01	762.2	60	15.6		n.			5		6		nnw.	sh'rs	sh'rs			
S. S. Devonia, N. 48° 12′, W. 39° 23′ *†	30.30	769.6	60	15.6		e.			2		2		e.			sli't	e.	hazy.
S. S. Furnesia, N. 51° 42′, W. 17° 06 †	30.28	769.1	58.4	14.7	98	nw.			2		10		nw.	0	0	mod.	nnw.	cloudy.
S. S. Llandaff City, Bristol, Eng			56	13.3		nw.			5		6		wnw.	shr's	shr's			showery.
S. S. Gallia, N. 42° 41′ W. 57° 44′	30.18	766.6	61	16.1	82	e.			4		2			0	0	sm'h		clear.
S. S. Marathon, N. 44° 29′, W. 8° 56′	30.17	766.3	63	17.2		nne.			5		4		nne.	0	0	mod.	n.	
S. S. Pavonia, Mersey river, Eng	29.78	756.4	59	15.0	65	nw			5		4		nw.	1½h'r	1½h r	short	n.	squally.
S. S. Colina, N. 48° 15′, W. 47° 18′†	30.22	767.6				nne.			2		6		ne.	0	0	long	ne.	hazy.
S. S. Wisconsin, N. 43° 10′ W. 54° 00′			50	10.0		nne.			4		7		nne.	0	0	mod.	nne.	fair
S. S. Wyoming, N. 43° 28′. W. 47° 07′	30.10	764.5	53	11.7		ne.			6		7		ne.	0	0	long	n.	foggy
S. S. Bohemia, N. 46° 42′, W. 31° 48′						ese.			4		7		ese.	0	0	mod.	ese.	cloudy.
S S. Frisia, N. 49° 51′, W. 5° 40′	30.03	762.7				n.			5		2		nw.	0	0	sm'h	nw.	clear.
S. S. Gellert, New York, N. Y	30.27	768.8	75	23.9	90	sw.			1		0			0	0			clear.
S. S. Rugia, N. 49° 34′, W. 35° 32′	30.37	771.4	58	14.4		se.			4		10		s.	0	0	sm'h	sse.	hazy.
S. S. Silesia, Elbe river, Germany	29.65	753.1	60.5	15.8		n.			4		1		n.	0	0			hazy.
S. S. City of Paris, N. 47° 44′, W. 29° 54′*†.	30.32	770.1				ene.			4		10		se.	0	0	long	ene.	overcast.
S. S. Virginian, N. 44° 42′, W. 39° 15′ *	30.08	764.0	66	18.9		e.			6		10		se.	4 h'r	4 h'r	r'gh	se.	drizzling.
S. S. Archimedes, N. 41° 47′, W. 47° 12′	29.87	758.7				se.			4		5		ene.	0	0	light	con.	fine.
S. S. Hevelius, N. 44° 00′, W. 10° 00′			64	17.8		ne.			5		4		ne.	0	0	sm'h		fair.
S. S. Colorado, N. 27° 10′, W. 88° 44′ †	30.05	763.3	83	28.3		ne.			2		2		ne.	1 h'r	1 h'r	small	ne.	clear.
S. S. Chalmette, New York, N. Y †	30.30	771.1	64	17.8		sw.			2		1			0	0			clear.
S. S. Lone Star, N. 31° 29′, W. 80° 05′ †	30.21	767.3	78	25.6		ne.			2		2		ene.	8 h'r	8 h'r	small	ne	clear.
S. S. Alleghany, N. 38° 27′ W. 75° —′†	30.26	768.6	62	16.7		ne.			2		0			0	0	light	e.	clear.
S. S. City of Merida, N. 23° 09′, W. 82° 22′†	30.07	763.8	77	25.0		ne.			1		5		ne.	3 h'r	3 h'r			fair.
S. S. Denmark, New York, N Y†	30.28	769.1	60	15.6		sw.			2		2		sw.	0	0			clear.
S. S. Egypt, N. 49° 44′, W. 29° 34′	30.42	770.7	54	12.2		e.			4		2		e.	0	0	mod.	e.	hazy.
S. S. England, New York, N. Y	30.18	766.6				sse.			2		2		sse.	0	0			clear.
S. S. Erin, London, Eng	29.71?	754.6?	49	9.4		wsw.			3		2		w.	0	0			clear.
S. S. Helvetia, N. 40° 44′, W. 63° 11′	30.25	768.3	66	18.9	89	ene.			4		5		ene.	2 h'r	2 h'r	sm'h	ene.	fair
S. S. Holland, N. 50° 02′ W. 4° 16′	29.93	760.2	54	12.2		wnw.			4		5		wnw.	0	0	mod.	wnw.	fair.
S. S. Donau, N. 48° 42′, W. 27° 13′	30.47	773.9				se.			1		2		n.	0	0	sm'h	nne.	clear
S. S. Elbe, N. 42° 02′, W 52° 04′	30.27	768.7	52	11.1	93	nne.			5–6		4		nne.	0	0	long	ne.	fair.
S. S. Habsburg, N. 40° 22′, W. 72° 42′	30.30	769.6				ese.			1–2		2		ese.	0	0	sm'h		clear.
S. S. Hohenstaufen, N. 47° 53′, W. 27° 51′						ene.			4		0			0	0	mod.	e.	light haze.
S. S. Hermann, N. 41° 17′, W. 57° 44′	30.23	767.8	64	17.8	78	ne.			5		7		ene.	0	0	mod.	ne.	fair.
S. S. Main, N. 50° 18′, W. 3° 03′	29.96	761.0	57	13.9		n.			4		8		ne.	4 h'r	4 h'r			cloudy.
S. S. Ohio, N. 37° 25′, W. 70° 58′	30.28	769.1				ne.			3		3		ene.	0	0	cross	var.	clear.
S. S. Werra, N. 49° 33′, W. 18° 09′	30.39	771.9	58	14.4		nne.			4		6		nne.	0	0	mod.	nne.	fair.
S. S. City of Augusta, Savannah, Ga †	30.33	770.4				n.			4		8			0	0			cloudy.
S. S. Colon, N. 23° 02′, W. 74° 12′ †	30.13	765.3	81	27.2	83	ese.			5		0			0	0	mod.	se.	clear.
S. S. Muriel, St. Lucia, W. I	30.11	764.8	82	27.8		ne.			4		10		ene.	4 h'r	4 h'r	sm'h		cloudy.
S. S. Orinoco, N. 35° 45′ W. 68° 10′	30.12	765.0	77	25.0		wsw.			3		5		wsw.	0	0	mod.	ne.	fair.
S. S. Belgenland, N. 44° 15, W. 37° 00′ †	30.29	769.4	64	17.8	89	ene.			6		9		e.	0	0	r'gh	e.	cloudy.
S. S. Nederland, N. 44° 38′, W. 38° 01′			62	16.7		e.			5		10		e.	0	0	mod.	e.	cloudy.
S. S. Rhyniand, Antwerp Belgium			62	16.7	88	nw.			7		7		wnw.	0	0			fair.
S. S. Pennland, Antwerp, Belgium	29.91	759.7	55	12.8	81	sw.			6		6		sw.	1 h'r	1 h'r			squally.
S. S. Waesland, Jersey City, N. J	30.28	769.1	64	17.8		se.			3		1		ese.	0	0			clear.
S. S. P. Caland, N. 40° 47′, W. 61° 00′	30.25	768.3	66.6	19.2	83	ene.			5		5		e.			5	ene.	fair.
S. S. Schiedam, N. 46° 44′ W. 36° 45′	30.22	767.6	64	17.8	89	e.			3–4		7		ese.	0	0	mod.	e.	fair.
S. S. W. A. Scholten, Rotterdam, Holland	29.66	753.4	55.0	12.8	85	sw.			4–6		8		ssw.	4 h'r	4 h'r			cloudy.
S. S. Belize, Kingston, Jamaica, W. I *†	30.13	765.3	85	29.4		calm			0		7			6 h'r	6 h'r			fair.
S. S. Caracas, N. 27° 20′, W. 69° 22′ †	30.32	770.1	82	27.8	87	s.			1		2		w.	0	0	mod.	se.	clear.
S. S. Valencia, N. 27° 06′, W. 69° 54′†	30.38	771.6	82	27.8	83	sse.			3		2		s.	0	0	mod	sse.	clear.
S. S. State of Nevada, N. 40° 54′. W 64° 50′			66	18.9		ene.			5		2		ne.	0	0	light	e.	clear.
S. S. State of Nebraska, N. 54° 02′. W. 16° 50′ *†	30.25	768.3	50	10.0		nnw.			6		10		nne.	shr's	shr's	mod.	n	overcast.
S. S. Thingvalla, New York, N. Y †	30.17	766.3	69.8	21.0		sw.			3		4		sw.	0	0			fair.
S. S. Toledo, N. 37° 19′ E. 9° 35′ *†	30.07	763.8	72	22.2		ese.			4		0			0	0			clear.
S. S. Romano, N 41° 10′, W. 63° 09′ †	30.28	769.1	63	17.2		nne.			6		4		ne.	0	0	r'gh	n.	fair.
S. S. Dominion, N. 46° 35′, W. 52° 57′ *†	30.33	770.4	46	7.8		calm			0		0							clear.
S. S. Oregon, N. 55° 34′, W. 13° 27′	30.12	765.0	51	10.6		n.			4		4		n.			mod.	n.	fair.
S. S. Lake Huron, N. 47° 36′, W. 59° 37′	30.30	769.6	44	6.7		se.			1		0			0	0	sm'h		clear.
S. S. Lake Manitoban, N. 54° 45′, W. 22° 00′	30.46	773.7	54	12.2		n.			4		8		n.	0	0	sm'h		cloudy.
S. S. Daniel Steinmann, N. 49° 03′ W. 63° 57′†	30.10	764.5	58	14.4		ssw.			1		0			0	0	sm'h		clear.
S. S. Plantyn, N. 42° 29′, W. 50° 15′									2		3		sw.			sm'n	n.	clear.
S. S. Norman, N. 42° 25′, W. 70° 54′						se.			1		0			0	0			clear.
S. S. Saxon, Philadelphia, Pa †	30.24	768.1				s.			3		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. S. Britannic, N. 41° 10′, W. 60° 38′†	30.32	770.1	62	16.7		ne.			5		5		ne.	0	0	mod.	ene.	fair.
S. S Celtic, New York, N. Y †	30.23	767.8	66	18.9		w.			2		2		w.	0	0			clear.
S. S. Iowa, N. 42° 51′, W. 55° 46′ †	30.33	770.4	59	15.0		ne.			5		3		ne.	0	0	mod.	ne.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.02	762.5	73	22.8	72	nw.			2		1			0	0			clear.
Schr. Abbie H. Gheen, New York, N. Y.†	30.40	772.1	68	20.0		calm			0									clear.
Bk. Aquidneck, N. 24° 27′, W. 39° 05′ *†	30.00	762.0				nw.			3		0			0	0	light	n.	clear.
Schr. Anna A. Holton, N. 30° 53′, W. 69° 46′*†	30.20	767.1	80	26.7		wsw.			3		2		sw.	0	0	sm'h	sw.	clear.
Schr. Authur Burton, Boston, Mass.†	30.29	769.4				ssw.			2		0			0	0			fine.
Bk. Aureola, N. 41° 22′, W. 35° 30†	29.92	760.0	72	22.2		ene.			7		10		ene.	3 h'r	2 h'r	h'vy	e.	threatening.
Bk. Arda, Sackville, N. B.						w.			3		2		w.	0	0			clear.
Bk. Alba, N. 40° 14′, W. 69° 10′ *†	30.24	768.0	56.3	13.5		e.			1				nw.	0	0			
S. S. Burswell, N. 51° 23′, W. 3° 29′ *†	29.97	761.2	61	16.1		calm			0		8		calm	1½h'r	1½h'r	sm'h		squally.
Bk. Bayonnaise, N. 40° 39′, W. 14° 12′			62.6	17		nne.			4		6		ne.			sm'h	ne.	fine.
Schr. C. R. Flint, Tampico Bar, Mexico†	29.95	760.7	83	28.3		nw.			1		5		s.	0	0	long	ese.	fair.
Bk. Cato, Bodöe, Norway *†	29.95	760.7				wsw.			4									
S Criterion, N. 41° 05′, W. 59° 23′*†	30.10	764.5				ene.			4		10		ene.	0	0	light	e.	
Schr. Clotilde, N. 20° 58′, W. 97° 00′*†	29.93	760.2	84	28.9		w.			1		2		e.	1 h'r	1 h'r	sm'h	e.	
S. David Stewart, N. 4° 09′, W. 25° 33′†	29.78	756.4				var.			1		2		sse.	0	0	mod.	se.	
Bkt. David A. Preston, N. 27° 04′, W. 75° 40′						ese.			2		5		se.	0	0	mod.	ese.	
S. E. J. Spicer, N. 43° 10′, W. 50° 40′	30.19	766.8	41	5.0	100	ne.			6		10		nnw.	rain	rain	mod.	ne.	foggy.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′ *†	29.90	759.4	58	14.4		nnw.			4					2 h'r	2 h'r	sm'h		raining.
U. S. Fish Com. S. S. Fish Hawk, New Pt. Comfort, Va†	30.15	765.8	73	22.8	85	e.			2		2		nw.	0	0			clear.
S. Festina Lente, Cape Chatte, Canada	30.07	763.8	48	8.9		n.			1		0			0	0	sm'h		hazy.
Schr. F. E. Waters, N. 31° 57′, W. 75° 53′*†	30.20	767.1				se.			5				se.	6 h'r	6 h'r	r'gh	se.	cloudy.
Bgt. George, N. 27° 00′, W. 62° 50′ *†	30.20	767.1	78	25.6		calm			0		0			0	0	mod.	s.	clear.
Bk. Galeon, N. 24° 30′, W. 81° 13′†	30.09	764.3	81	27.2		ese.			3		0			1 h'r	1 h'r	sm'h		blue sky.
Bk. Heinrich & Tonio, N. 42° 22′, W. 40° 40′†	29.95	760.7	69	20.6		ene.			4		3		ene.	0	0	mod.	e.	fair.
S Hedwig, N. 36° 54′, E. 16° 23′	29.95	760.8	75.6	24.2	85	nw.			2		2		nw.	0	0	2	nnw.	fine.
Bk. Hattie G. McFarland, N. 34° 34′, W. 76° 05′†	30.16	766.1	77	25.0		ne.			5		5		ne.	3 h'r	3 h'r	r'gh	ne.	clearing.
Bk. Harriet S. Jackson, near Cape Cod, Mass *†	30.38	771.6				s.			3		3		se.	0	0	small	se.	
Bk. Horace Scudder, N. 13° 10′, W. 52° 54′ *†	30.13	765.3	78	25.6		ese.			6		10		ene.	4 h'r	4 h'r	long	e.	squally.
Schr. Isabel Alberto, N. 33° 12′, W. 78° 06′ †	30.22	767.6				ne.			3		0			light	light	mod.	ne.	clear.
Bk. Johanne, N. 45° 13′, W. 37° 57′*†	30.15	765.8	64	17.8		e.			4		8		e; se.	2 h'r	2 h'r	mod.	e.	hazy.
Schr. John L. Thomas, N. 15° 20′, W. 82° 10′*†	30.00	762.0				e.			4		6		ese.	3 h'r	3 h'r	light	ese.	squally.
Bg. John Wesley, N. 22° 14′, W. 31° 30′*†	30.03	762.7	79	26.1		sw.			4		3		sw.	2 h'r	2 h'r	sm'h	w.	clear.
Schr. Jennie N. Huddell, Charleston, S. C.†	30.19	766.8	77	25.0		nne.			1		0			0	0			clear.
S. J. W. Gildemeister, N. 30° 23′, W. 39° 37′	29.99	761.7	75.2	24	80	nw:w			3-4		8 k;n		nw.			3	nw.	drizzling.
Bkt. Kryolith, Ivigtut, Greenland *†	30.06	763.5				s.			1		5			0	0			fair.
Bg. L. & W. Armstrong, N. 26° 55′, W. 59° 48′*†	30.28	769.1				n.			1		1		e.	0	0	sm'h	n.	clear.
Light House Tender Laurel, Key West, Fla†	30.06	763.5	83	28.3		ene.			2-3		6		se.	0	0			fair.
Bk. Louise Adelaide, off Cape Florida, Fla †	30.06	763.5	82	27.8		ese.			2		1			0	0	sm'h		fair.
Bk. Milo, N. 45° 19′, W. 57° 00′†	30.30	769.6				calm			0				calm			sm'h		fine.
S. S. Madrid, N. 36° 48′, W. 37° 46′†	29.75	755.6	69	20.6	90	nne.			5		5		nne.	sh'rs	sh'rs	mod.	nne.	showery.
Schr. Minnie A. Bonsall, Haverstraw, N. Y.†	30.26	768.6	67	19.4		s.			2				sw.	0	0			fair.
Bgt. Myrtle, N. 19° 14′, W. 64° —′						e.			6				e.	0	0			fair.
Schr. Maggie Abbott, N. 23° 10′. W. 74° 10′†	30.13	765.3				ene.			5		4		e.	rain	rain	mod.	ne.	clear.
Bk. National Eagle, N. 41° 47′, W. 27° 20′						ese.			6		10		ese.	rain	rain	mod.	sse.	drizzling.
Bg. O. C. Clary, N. 26° 55′, W. 59° 41′*†	30.28	769.1				calm			0		0					sm'h	ne.	clear.
Bk. Ottawa, N. 53° 27′, E. 3° 40′	29.57	751.1	56	13.3		ssw.			6		4		sw.	2 h'r	2 h'r	short	sw.	fair.
S. Paramita, N. 24° 03′, W. 37° 09′ †	29.95	760.7	78	25.6		nw;n.			3		3		nw.	3 h'r	3 h'r	long	nw.	clear.
S. Rudolph, N. 48° 08′, W. 18° 27′			61.0	16.1		nne.			3		6		ne.	1 h'r	1 h'r	mod.	var.	fair.
Bg. Rising Sun, Barbadoes, W. I.†	30.07	763.8	84	28.9		e.								0	0			
Bk. Rosino, N. 39° 38′, W. 19° 51′			63	17.2		sse.			2		fg.			0	0	mod.	nw.	foggy.
Bk. Sunbeam, N. 39° 16′, W. 35° 39′†	29.82	757.4	67	19.4	89	ene.			7		10		ene.	8 h'r	8 h'r	h'vy	e.	cloudy.
Bk. Southern Belle, N. 22° 13′, W. 47° 45′†	30.10	764.5	77	25.0		nne.			4					0	0	mod.	n.	clear.
S. Sovereign of the Seas, N. 28° 52′, W. 39° 59′ *†	30.10	764.5	73	22.8	90	nnw.			3		3		nnw.	3 h'r	3 h'r	mod	nnw.	showery.
Bg. Teneriffe, N. 40° 10′, W. 73° 20′*	30.18	766.6				calm			0		0			0	0	sm'h		
Bk. Tuck Sing, near Cienfuegos, Cuba, W. I.*†	30.02	762.5				ene.			2		0			½h'r	½h'r	light	sse.	fine.
Schr. Viola Reppard, Sequin Island, Me.†	30.22	767.6	63	17.2		sw.			3		3		sw.	0	0	sm'h		fair.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†	30.06	763.5	81	27.2		sse.			3		5		s.	2 h'r	2 h'r			fair.
Bgt. Sunlight, N. 31° 17′, W. 61° 51′						wsw.			3		2		nw.	0	0		wnw.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†	29.78	756.4	64	17.8	100	nnw.			1		9							overcast.
H. M. S. Boadicea, Simon's Bay, Cape Colony, Africa	30.07	763.8	60	15.6		nw.			3		8							d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata	29.75	755.6	62.5	16.9	91	sw.			2		5							d. clouds
U. S. S. Brooklyn, Montevideo, Uruguay*	29.72	754.9	67	19.4	95	nnw.	11	4.9			10		w.	0.04	1.0	sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	29.72	754.9	66	18.9	94	nw.			2		10		w.					cloudy.
S. Annie M. Law, S. 35° 59′, E. 19° 41′ *†	29.80	756.9	59	15.0		wnw.			7		10		wnw.	1 h'r	1 h'r	high	sw.	
S. Wm. McGilvery, S. 37° 39′, W. 54° 40′ *†	29.80	756.9	61	16.1	100	wnw.			2		0			4 h'r	4 h'r	mod.	wnw.	
S. S. Olbers, N. 23° 13′, W. 42° 10′†	30.22	767.6	78	25.6	78	ese.			3		4		ese.	0	0	mod.	ese.	fair.
Bk. Achille F, S. 29° —′, W. 42° —′†	30.26	768.6	71	21.7	90	ne.			4		5		ene.	0	0	long	ene.	fair.
Bk. Alpheus Marshall, S. 12° 31′, W. 13° 01′ *†	30.01	762.2				ese.			5		6		se.	2 h'r	2 h'r			rainy.
Bk. Ceylon, S. 18° 07′, W. 4° 00′ *†	30.30	769.6	74	23.3	81	se.			5		6		se.	slt'r	slt'r	mod.	se.	fair.
Bk. Gray Eagle, S. 25° 32′, W. 39° 56′ *†	30.20	767.1				ene.			6		3			½h'r	½h'r	long	ene.	clear.
H. P. M. S. Duque de Terceira, Benguela, Benguela	30.03	762.7	74.8	23.8	69	w.			2		4			0	0	2		d. clouds
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.83	757.7	74	23.3	72	se.			1		2	se.						d. clouds.
H. M. S. Champion, N. 8° 00′, E. 117° 30′	29.78	756.4	82	27.8	87	ene.			1		4							d. clouds.
H. M. S. Espiegle, N. 7° 09′, E. 171° 19′	29.90	759.4	81	27.2	83	se.			1		5							d. clouds.
H. M. S. Flying Fish, N. 37° 00′, E. 125° 56′	29.88	758.9	66	18.9	89	nw.			1		3							d. clouds.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.85	758.2	84.3	29.1	77	se.			1		7	e.						d. clouds.
H. M. S. Sheldrake, N. 1° 33′, E. 105° 47′			80	26.7		sse.			3		3					4	s.	d clouds.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	30.02	762.5	72	22.2	90	calm			0		2							d. clouds.
H.P. M. S. Tamega, Macao, China	29.80	756.8	83.3	28.5	85	se.			2		10			0	0			overcast.
U. S. Naval Hospital, Yokohama, Japan	30.12	765.0	69	20.6	85	ssw.			4		2		w.	0	0			clear.
U. S. S. Adams, Sitka, Alaska†	30.25	768.3	45	7.2	92	n.			1		10							cloudy.
U. S. S. Essex, N. 20° 11′, W. 153° 11′	30.04	763.0	77	25.0	95	ene.			4		2		ene.			sm'h	ene.	clear.
U. S. S. Hartford, Honolulu, Sandwich Ids*	29.96	761.0	75	23.9	86	calm			0		5			0	0			fair.
U. S. S. Monocacy, Salee river, Corea	29.91	759.7	75	23.9	95	wnw.			1		8		nw.					hazy.
U. S. S. Palos, Hong Kong, China	29.67	753.6	79	26.1	95	se.			1		10		s.					cloudy.
U. S. S. Richmond, N. 31° 08′, E. 122° 00′ *	29.71	754.6	76	24.4	86	sw.			2		10		sw.					cloudy.
S. S. Arabic, N. 41° 07′, W. 129° 49′			54	12.2	93	ne.			3		5		nne.	0	0	sm'h		fair.
S. S. Coptic, N. 27° 54′, E. 125° 48′	29.88	758.9	77.5	25.3	75	s			5		7		ssw.	4 h'r	4 h'r	mod.	s.	fair.
S. S. Oceanic, N. 43° 05′, E. 163° 38′	30.04	763.0	48	8.9	85	wsw.			5		5		sw.			sm'h	e.	fair.
S. S. Columbia, N. 38° 00′, W. 123° 05′†	29.95	760.7	52	11.1	93	wnw.			2		10					light	nw.	misty.
S. S. Oregon, N. 42° 37′, W. 124° 29′ †	30.08	764.0	53	11.7	93	n.			5		8		n.			r'gh	nnw.	cloudy.
S. S. Willametta, Seattle, Wash. Ter.†	30.11	764.8	54	12.2	93	nw.			1		1		nw.	0	0			clear.
S. S. Ancon, N. 35° 25′, W. 121° 08′ †	30.00	762.0	56	13.3	87	ese.			2		0					mod.	wnw.	hazy.
S. S. City of Chester, Eureka, Cal.†	29.95	760.7	51	10.6	86	s.			2		10							overcast.
S. S. Dakota, N. 40° 16′, W. 124° 34′			55	12.8	87	nw.			5		8		nw.			long	nw.	cloudy.
S. S. Queen of the Pacific, Portland, Oregon †	30.03	762.7	54	12.2		calm			0		0			0	0			clear.
S. S. City of New York, N. 24° 35′, W. 150° 55′ †	30.14	765.5	74	23.3	76	ese.			4		5		ese.	0	0	sm'h		fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. City of Pekin, N. 39° 10′, W. 127° 55′ †	30.05	763.3	56	13.3	75	nnw.			6		10			0	0	mod	nnw.	misty.
S. S. City of Rio de Janeiro, Hong Kong, China †	29.89	759.2	82	27.8	83	se.			1		8		sse.			sm'h		showery.
S. S. Colima, La Libertad, San Salvador†	29.88	758.9	75	23.9	90	e.			2		6		calm	0.35	8.9	small	se.	fair.
S. S. Granada, N. 22° 55′, W. 108° 58′ †	29.88	758.9	72	22.2	90	ssw.			4		8		ne.	0	0	sm'h	wsw.	cloudy.
S. S. San Blas, N. 8° 34′, W. 84° 25			82	27.8		se.			1		2		s.	0	0	small	ssw.	clear
S. S. San José, N. 35° 11′, W. 121° 09′ †	30.03	762.7	57	13.9		wsw.			2		ks.		ssw.			long	wnw.	foggy.
S. S. Radnorshire, N. 33° 48′, E. 132° 27′ *†	29.95	760.7				calm			0		4		s.	0	0			fair
S. Sacramento, N. 9° 22′ E. 123° 21′*†	29.95	760.7	82	27.8	83	e.			1		5		e.	2 h'r	2 h'r	sm'h		fair.
S. St. David, N. 21° 22′, E. 122° 40′ *†	29.90	759.4	85	29.4	87	se.			3		7		var.	1 h'r	1 h'r	light	se.	hazy.
Bk. Xenia, Shanghai, China*†	29.89	759.2	75	23.9		w.			4		8		sw.	0	0			cloudy.
H. M. S. Sappho, N. 21° 43′, W. 108° 22′	29.90	759.4	77	25.0	95	w			2		2	nw.				4	nw.	d. clouds.
U. S. S. Ranger, N. 13° 54′, W. 90° 50′	29.91	759.7	81	27.2	78	e.			1		5		ne.	0	0	light	sse.	fair.
S. Henry Failing, Wilmington, Cal	29.82	757.4	64	17.8		ene.			1		fg.		nw.	0	0	sm'h	wnw.	foggy.
S. Grecian, Yokohama, Japan †	30.06	763.5	69	20.6	85	s.			5		0			0	0			clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, S. 33° 51′, E. 151° 11′			60	15.6	71	calm			0		6	se.						d. clouds
H. M. S. Kingfisher, S. 39° 15′, W. 114° 15′	30.11	764.8	59	15.0		n.			5		6					5	nnw.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.76	755.9	71	21.7	95	calm			0		10							raining.
U. S. S. Iroquois, Valparaiso, Chili	30.01	762.2	52	11.1	79	ne.			2		8							cloudy.
U. S. S. Lackawanna, S. 17° 08′, W. 83° 19′ *	30.01	762.2	67	19.4	60	se.			5		5		se.			mod.	s.	fair.
U. S. S. Onward, Callao, Peru†	30.08	764.0	64	17.8	83	se.			3		10		se.					misty.
U. S. S. Pensacola, Callao, Peru *	29.91	759.7	65	18.3	84	sse.	6	2.7			10		sse.	0	0			misty.
U. S. S. Wachusetts, S. 16° 16′, W. 146° 29′ *†	29.97	761.2	80	26.7	87	ne.			2		5		calm			sm'h		fair.
S. S. Australia, Sydney, N. S. W.	30.22	767.6	52	11.1	73	n.			7		8		ne.	0	0			cloudy.
H. M. S. Lark. S. 7° 25′, E. 55° 33′	29.91	759.7	80.3	26.8	89	ese.			4		7					sm'h		showery.
S. S. City of Sydney, S. 34° 16′, E. 165° 00′ *†	30.40	772.1	62	16.7	77	n.			3		8 k		nne.					cloudy.
S. Parker M. Whitmore, S. 33° 34′, W. 106° 30′ *†	30.36	771.1	58	14.4		ne.			6		5		nnw.	0	0	cross	var.	fair.
S. Storm King, S. 29° 26′ W. 89° 10′ *†	30.20	767.1				s.			5		1		s.	1 h'r	1 h'r	high	s.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.01	762.2	80	26.7		ese.			2		3	ese.				2	sse.	d clouds.
U. S. S. Enterprise, S. 21° 43′, E. 42° 57*	30.08	764.0	75	23.9	72	ssw.			4		0					sm'h		clear.
U. S. S. Juniata, Colombo, Ceylon, India	29.79	756.7	83	28.3	96	wsw.			2		8		sw.	0	0	sm'h		cloudy.
S. S. Galatia, Bombay, India*†	29.65	753.1	89	31.7		sw.			5		7		sw.	2 h'r	2 h'r			showery.
S. S. Malabar, N. 15° 16′, E. 92° 37′*†	29.70	754.4				sw.			6		10		sw.	5 h'r	5 h'r	hv'y	sw.	raining.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 17, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.99	761.7	78.1	25.6	79	n.			1		0			0	0	clear	Malaterre.
Algiers			29.95	760.8	77.7	25.4	62	nnw.			1		0			c	0	clear	Thève.
La Galle			29.95	760.6															Fonfrède.
Tunis			29.98	761.5															Jacques.
Saida			29.99	761.8															Pérès.
Tebessa			30.01	762.3	81.3	27.4	41	n.			6		4			inap.	inap.	cloudy	St. Martin.
Geriville					77.7	25.4	27	nw.			2		0			0	0	clear	Forfert.
Laghouat			29.98	761.5	97.5	36.4	11	s.			6		0			0	0	clear	Abraham.
Biskra			30.01	762.3	89.6	32.0	33	e.			1		2			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.20	767.1	52.5	11.4	90	n.	6	2.7		7 cs				0.005	0.1	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.96	761.0	30.05	763.3	53.4	11.9	71	nw.	9	4.0			8			0.07	1.8	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.32	744.7	29.84	758.0	76.3	24.6	70	e.			3		8			0.134	3.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.08	738.7	29.83	757.6	69.1	20.6	74		11.2	5.0			10			0.528	13.4	thund'rst'm	Dr. Wierzbiski
Eperies	28.95	735.2	29.78	756.3	77.0	25.0	58	calm			0		10 s		n.	0.295	7.5		Julius Mikolik.
Gratz	28.62	727.0	29.81	757.2	72.5	22.5	79	s.			2		7			1.008	25.6	lightning	Andreas Rospini.
Hermannstadt	28.41	721.5	29.74	755.3	82.9	28.3	37	se.			4		4			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.61	726.7	29.93	760.1	61.2	16.2	83	ne.			1		10			0.500	12.7	gloomy	The Staff.
Lemberg	28 82	732.1	29.75	755.6	81.0	27.2	55	s.			2		6			0.764	19.4		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.78	756.4	29.89	759.1	78.3	25.7	87	sw.			3		3			0.287	7.3		I. R.Hydrographic Office.
Szathmar	29.36	745.7	29.80	756.9	78.1	25.6	67	s.			3		8			0.016	0.4	thunder	Joseph Midlinszky, S. J.
Szegedin	29.54	750.2	29.80	757.0	71.2	21.8	74	s.			1		8			0.055	1.4	lightning	Karl Stancel.
Trieste	29.77	756.1	29.87	758.6	77.4	25.2	63	sw.			1		4			0.622	15.8		Royal Academy.
Vienna	29.21	741.9	29.91	759.7	62.8	17.1	77	w.			3		9			0.181	4.6	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.68	753.9	29.78	756.4	50.6	10.3	62	nnw.	26	11.6			9			blank	blank	overcast	W. Boswell.
Armagh, Observatory	29.73	755.1	29.97	761.2	58.7	14.8	55	nnw.	7	3.1									S. Call.
Bidston, Liverpool Obs'y			29.92	760.0	53.1	11.7	58	wnw.	25	11.2			8					d. clouds	John Hartnup.
Bolton, Sharples	29.36	745.7	29.89	759.2	53.1	11.7	67	wnw.	15	6.7			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0.03	0.8		McLandsborough&Preston.
Bridgetown, Barbadoes	30.00	762.0	30.02	762.5	83.0	28.3	67	ne.			1		2					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	29.83	757.7	29.94	760.5	62.0	16.7	56	w.			1.0		6					d. clouds	John McLaren.
Chatham, School M. E.	29.79	756.7	29.92	760.0	56.7	13.7	59	w.			1		8			blank	blank	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.86	758.4	30.08	764.0	55.8	13.2	53	nnw.			4		6					d. clouds	The Staff.
Fort Napier, Natal	27.61	701.3	29.83	757.7	71.3	21.8	46	e.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.58	751.3	29.91	759.7	79.0	26.1	82	w.			1		5					raining	J. W. Smith.
Galway, Queen's College	29.98	761.5	30.01	762.2	54	12.2	87	nw.			1		6			0.03	0.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.12	765.0	30.17	766.3	75.0	23.9	77	sw.			2		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.58	751.3	29.78	756.4	56.2	13.4	60	w.			4		5					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.76	755.9	29.93	760.2	55.4	13.0	65	w.			2		10					drizzling	The Staff.
Guernsey	29.75	755.6	30.05	763.3	58.0	14.4	64	wnw.			2		4					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.91	759.7	29.94	760.5	54.1	12.3	61	wnw.	9	4.0			9					threatening	The Staff.
Leicester, Museum	29.63	752.6	29.88	758.9	58.0	14.4	63	w.			2		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.88	758.9	29.96	761.0	79.2	26.2	84	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.11	764.8	30.16	766.1	84.0	28.9	68	se.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.41	747.0	29.93	760.2	52.0	11.1	76	w.			1		0					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.71	754.6	29.94	760.5	54.0	12.2	68	wnw.			3		8					d. clouds	The Staff.
Plymouth	29.96	761.0	30.03	762.7	62.0	16.7	59	nnw.			3		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.72	754.9	29.82	757.4	48	8.9	70						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.76	755.9	29.82	757.4	87.4	30.8	49	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.60	751.8	29.88	758.9	57.2	14.0	78	w.			4		6			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.83	757.7	29.86	758.4	59.0	15.0	56	nw.			2		5			.0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	30.04	763.0	30.14	765.5	61	16.1	55	nw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.14	765.5	30.17	766.3	51.6	10.9	91	nw.	16	7.2			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.61	752.1	30.00	762.0	80.6	27.0	27	s.	6.2	2.8						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.18	766.6	30.22	767.6	59	15.0	56	s.	10	4.5		8 c	0			0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.11	764.8	30.17	766.3	56	13.3	57	sw.	5	2.2		5 k	5 ks	sw.	sw.	0	0	fair	G. A. Blair.
Cornwall, Ontario	29.75	755.6	29.93	760.2	65.3	18.5	84	w.			1	5 cs	5 s		nw.	0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.06	763.5	30.10	764.5	56.0	13.3		e.			1		10 s			0	0	gloomy	H. A. Johnson.
Father Point, Quebec*	29.94	760.5	29.96	761.0	58	14.4	96	s.	45	20.1		0	2 ks		s.	0.05	1.3	clear	J. McWilliams.
Fort Garry, Manitoba*	29.00	736.6	29.81	757.2	56	13.3	100	s.				2 cs	0			0	0	fair	James Stewart.
Fredericton, N. B	30.15	765.8	30.22	767.6	54.0	12.2	63	sw.	3	1.3		9 cs	0			0	0	d. clouds	Prof. Harrison, L. L. D.
Granton, Ontario	28.89	733.8	29.95	760.7	66.0	18.9	100	sw.	2	0.9		8 c	0	sw.		0.27	6.9	fine	Jas. Grant.
Halifax, N. S*	30.12	765.0	30.25	768.3	58	14.4	74	se.	5	2.2		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.59	751.6	29.97	761.2	68.2	20.1	90	sw.			1	4 ck	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.68	753.9	30.01	762.2	61	16.1	84	sw.	6	2.7			10 s		sw.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.20	767.1	30.24	768.1	67.6	19.8	43	sw.			3	2 c	0	w.		0	0	blue sky	C. H. Rigby.
London, Ontario	29.08	738.6	29.95	760.7	67.5	19.7	96	sw.				4 cs	0	sw.		0.17	4.3	d. clouds	E. B. Reed.
Montreal, Quebec*	29.78	756.4	29.98	761.5	62	16.7	78	s.					10 s		s.	0.01	0.3	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.70	754.4	29.94	760.5	64.5	18.1	88	sw			1	10 c	0			0	0	fair	A. McGill, M. A.
Parry Sound, Ontario*	29.28	743.7	29.95	760.7	67	19.4	84	n.			1	2 cs	0	w.		inap.	inap.	fair	Rev. R. Mosley.
Peterboro, Ontario	29.24	742.7	29.94	760.5	70.7	21.5	94	calm			0	2 c	0	se.		0.070	1.8	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.29	744.0	29.97	761.2	62	16.7	100	calm	0	0		5 c	0	sw.		0.01	0.3	fair	H Morgan.
Port Stanley, Ontario	29.33	745.0	29.96	761.0	63	17.2	97	se.	2	0.9		8 k	fg.	w.		0.16	4.1	cloudy	M. Payne.
Quebec, Quebec*	29.05	753.1	30.00	762.0	62	16.7	96	calm	0	0		10 ck	0	w.		0.24	6.1	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.49	749.0	29.94	760.5	59	15.0	87	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B	30.14	765.5	30.19	766.8	50	10.0	85	s	5	2.2		5 k	2 ks			0	0	fair	
St. John, N. B	30.03	762.7	30.20	767.1	54.0	12.2	80	s.	8	3.6		8 ck	0			0	0	d. clouds	G. Murdock, C. E.
Saint John's, N. F	30.18	766.6	30.44	773.2	43	6.1	75	se.			1	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F			30.24	768.1	51.8	11.0		calm			0					0	0		The Commandant.
Saugeen, Ontario*	29.24	742.7	29.93	760.2	69	20.6	63	w.	10	4.5			10 s			0	0	cloudy	
Stratford, Ontario	28.72	729.5	30.01	762.2	68.9	20.5	92	calm	0	0		2ck;cs	0			0.420	10.7	blue sky	G. J. Macgregor, M. A.
Sydney, C. B*	30.20	767.1	30.26	768.6	63	17.2	54	calm	0	0		2 c	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.60	751.8	29.97	761.2	68	20.0	90	calm	0	0		2 c	2 ks	w.	w.	0	0	hazy	Magnetic Observatory.
Windsor, N. S	30.10	764.5	30.20	767.1	57.0	13.9	72	sw.	6	2.7		0	4 ks			0	0	d. clouds	Prof. W. R. Butler, M.A
Woodstock, Ontario	28.97	735.8	29.99	761.7	69.7	20.9	92	s.	2	0.9		5 cs	0	w.		0.08	2.0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.15	765.8	30.21	767.3	52	11.1	90	se.	4	1.8			10 s		ne.	0	0	cloudy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.74	755.4	29.77	756.1	64.0	17.8	77	w.	6.5	2.9		0	1 s			0	0	hazy	John Duthie
Springbok Fontein	28.04	712.2			54	12.2	55	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.58	751.4	29.69	754.2	89.6	32.0	43	sw.			1		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.78	756.4	29.81	757.1	75.7	24.3	91	ese.	6.7	3.0		0	0			0	0	clear	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.84	757.8	29.88	759.0	63.3	17.4	49	sw.	18	8			7						Oversergent Fischer.
Fanoe	29.82	757.3	29.84	757.8	57.0	13.9	62	sw.			6		6						Overloerer Lauridsen.
Godthaab, Greenland	29.94	760.4	29.98	761.5	34.2	1.2	96	s.			4		10					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.88	759.0	29.93	760.2	46.0	7.8		se.			4		5						
Stykkisholm, Iceland	29.91	759.8	29.96	760.9	48.2	9.0	83	w.			2		5						A. O. Thorlacius.
Thorshavn	30.02	762.5	30.04	763.1	48.9	9.4	72	n.	16	7			10						Overloerer Bergh.
Vestervig	29.63	752.0	29.72	754.9	54.5	12.5	73	ssw.			8		5						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.71	754.5			94.5	34.7		n.	4.9	2.2		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.49	749.1	30.13	765.3	64.0	17.8	86	nw.			1		n		sw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.47	748.5	30.02	762.5	62.6	17	67	sw.			1		sn			0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.90	759.5	29.98	761.5	72.3	22.4	54	nw.			1		2		w.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.45	748.1	30.00	762.1	62.6	17.0	41	wnw.			1	0	5 kn		w	0.031	0.8	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.76	755.8	30.02	762.4	59.0	15	75	w.			1		8		w.	0.358	9.1	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.00	736.6	29.94	760.4	64.4	18	80	sw.			1		10 cn		ne.	0.020	0.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.85	758.1	30.11	764.7	54.9	12.7	85	n.			1		10			0.134	3.4	covered	M. Rayet, Director.
Bourges, Normal School	29.48	748.8	30.02	762.6	60.8	16	53	nnw.			1		n		nnw.	0.024	0.6		M. Malet, Director.
Brest, Naval Observatory	29.87	758.8	30.11	764.9	56.8	13.8	77	n.			1		6		n.	0	0		M. de Kermarée, Dir.
Caen, Normal School	29.90	759.4	29.97	761.2	57.9	14.4	76	w.			1		10		w.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.65	753.2	29.97	761.2	58.8	14.9	66	sw.			2		5		wnw.	0.079	2.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.46	748.3	29.97	761.2	63.0	17.2	48	wsw.			1		5	sw.	sse.	0	0	½ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.67	728.1	29.99	761.8	64.4	18.0	44	n.			1	0	8 k			0.146	3.7	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.14	740.1	29.96	761.0	64.0	17.8	46	w.			2		2	w.	w.	0.059	1.5		M. de Villemontée, Dir.
Commercy, Normal School	29.14	740.2	29.99	761.8	58.8	14.9	55	w.			2		kn	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.48	697.9	29.97	761.3	61.7	16.5	69	calm			0		4			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.87	733.2	29.97	761.2	65.7	18.7	43	nw.			3		5		nw.	0.059	1.5		M. Kina, Director.
Grenoble. Normal School	29.23	742.5	29.98	761.6	65.1	18.4	60	ese.			2		ck	ssw.		0.016	0.4		M. Ablard, Director.
Guéret, Normal School	28.46	722.8	30.02	762.4	59.9	15.5	51	sw.			1	0	5 kn		nw.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.88	758.9	30.03	762.7	60.8	16	72	w.					k			0	0		M. Ollitrault, Director.
Lescar, Normal School	29.54	750.4	30.11	764.8	56.3	13.5	71	w.			1		10 kn			0.039	1.0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.08	764.1	30.19	766.7	57.6	14.2	67	n.			1		8		nw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.95	735.4	30.00	762.0	60.8	16.0	52	n.			2		5		wsw.	0.138	3.5	cloudy	M. André, Director.
Mans, Normal School	29.74	755.5	30.05	763.3	57.7	14.3	64	nw.			3		5		nnw.	0.047	1.2	cloudy	M. Piboën, Director.
Marseille, Observatory	29.71	754.7	29.98	761.4	68.0	20.0	65	w.			2		5		wsw.	0.039	1.0		M. Stephan, Director.
Montlouis	24.84	630.9	29.68	753.9	46.8	8.2	57	e.	5.6	2.5			8			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.84	757.8	29.96	760.9	69.8	21	59	wnw.			3		2		se.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.21	741.8	29.98	761.4	55.0	12.8	70	ssw.			2		kn		w.	0	0		M. Hasse, Director.
Nantes, Observatory	29.93	760.1	30.09	764.2	62.6	17.0	47	wnw.			0–2	0	8 k		nw.	0.051	1.3		M. Larocque, Director.
Perpignan, Observatory	29.97	761.1	30.08	763.9	63.1	17.3	53	w.	7.4	3.3		10				0.220	5.6		Dr. Fines, Director.
Pic-du-Midi, Summit	21.21	538.8			30.6	− 0.8		sw.			2				sw.	0	0		M. Vaussenat, Director.
Privas, Normal School	28.89	733.9	29.93	760.2	68.4	20.2	44	ne.			1	0	5 n		ne.	0.181	4.6	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.15	638.9			41.0	5.0	69	w.			3		8			0.118	3.0	¾ covered	M. Alluard.
Rochefort, Naval Obs'y	30.04	763.0	30.07	763.8	69.1	20.6	41	wnw.			3		2		nw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.85	758.1	30.06	763.6	55.8	13.2	82	w.			1		5		sw.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.89	708.5	30.01	762.2	60.3	15.7		nw.			1	0	5 kn			0.043	1.1	fair	M. Seger, Director.
Rouen, Normal School	30.00	762.0	30.05	763.2	61.2	16.2	55	wnw.			2		5	wnw.		0.028	0.7	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.85	758.2	30.01	762.3	63.0	17.3	44	wsw.			2		9		w.	0.067	1.7		M. Renou, Director.
Toulouse, Observatory	29.43	747.5	30.16	766.0	63.1	17.3	69	w.			1		5	nw.		0	0	cloudy	M. Baillaud, Director.
Tours	29.87	758.6	30.05	763.2	61.2	16.2	50	wsw.			2		8	w.	w.	0.020	0.5	showery	M. de Tastes.
Versailles, Observatory	29.52	749.7	30.01	762.2	60.4	15.8	44	nw.			2					0	c		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.00	762.1	30.15	765.9	63.0	17.2	64	nw.	19.7	8.8			7 k	s.	w.	0.004	0.1		M. Cartier, Director.
GERMAN.																			
Ansbach	28.54	724.9	29.97	761.2	59.4	15.2	50	w.			2		9	w.		0.020	0.5		Prof. Jaedt.
Bamberg	29.11	739.5	29.96	760.9	64.8	18.2	50	nw.			2	0	8 s; k		w.	0.004	0.1		Prof. Dr. Hoh.
Berlin	29.82	757.3	29.95	760.8	63.7	17.6	63	nw.			1		5			0.059	1.5		Dr. Sensch.
Breslau	29.43	747.5	29.96	761.0	56.3	13.5	99	nnw.			4		10			0.642	16.3	rain & fog	Royal University Obs'y
Carlsruhe	29.51	749.5	29.96	760.9	67.3	19.6	37	sw.			2		8	sw.		0	0		Albert Senz.
Cassel	29.21	741.8	29.92	759.9	65.5	18.6	37	sw.			2		5	sw.		0.197	5.0		Dr. H. Möhl.
Frankfort-on-the-Main			29.93	760.2	66.0	18.9	37	ssw.			1		6			0	0		Physical Society.
Friedrichshafen	28.59	726.1	29.99	761.8	57.9	14.4	73	w.			3		10	e.		0.142	3.6	showery	Wilhelm, Chief Tel.
Hamburg	29.83	757.7	29.92	760.0	62.2	16.8	63	sw.			4		7			0	0		E. Preller.
Kiel	29.87	758.6	29.88	759.0	62.4	16.9	51	sw.			2		8			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.54	750.3	29.95	760.8	64.4	18.0	46	se.			1		5			0.083	2.1	hazy	H. Leppig, Asst.
Magdeburg	29.75	755.6	29.93	760.3	65.1	18.4	53	sw.			2		8	sw.		0	0		Weather Observatory
Memel	29.85	758.1	29.89	759.3	62.8	17.1	80	nnw.			4	6 cs	0					hazy	Issermann.
Munich	28.13	714.4	29.98	761.6	61.2	16.2	67	ne.			2		8	n.		0.315	8.0		Central Station.
Neufahrwasser	29.89	759.3	29.91	759.7	57.9	14.4	96	nw.			2		10			0.626	15.9	raining	A. Lothes.
Neustadt, Palatinate	29.41	747.0	29.94	760.4	67.3	19.6	46	w.			4		9			0.177	4.5	raining	Dicknether.
Stuttgart	29.03	737.4	29.91	759.8	58.5	14.7	71	w.			1		9	w.		0.118	3.0	raining	Prof. Dr. Schoder.
Wustrow	29.94	760.4	29.97	761.1	59.5	15.3	60	w.			3	0	5 k		s.	0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.49	749.1	29.86	758.4	82.9	28.3		s.			2.5		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.43	747.6	29.48	748.8	90.5	32.5	79	wsw.	32.0	14.3			6		w.	0	0	d. clouds	
Deesa	29.01	736.8	29.46	748.3	99.5	37.5	27	sw.	16.0	7.2			4	sw.		0	0	d. clouds	
Bombay	29.61	752.1	29.65	753.1	84.6	29.2	75	wsw.	14.0	6.3			8	sw.	wsw.	0.02	0.5	d clouds	
Poona, Yarrowda	27.81	706.4	29.64	752.8	83.3	28.5	56	w.	28.0	12.5			6		sw.	0	0	d. clouds	
Trichinopoly	29.38	746.2	29.65	753.1	96.6	35.9	42	calm	0	0			5	nne.	nne.	0	0	d. clouds	
Belgaum	27.17	690.2	29.70	754.4	75.2	24.0	80	w.	9.0	4.0			6	w.	s.	0.10	2.5	d. clouds	
Lahore	28.67	728.2	29.37	745.9	105.3	40.7	20	nw.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.46	722.9	29.31	744.4	101.9	38.8	23	nw.	9.0	4.0			0			0	0	misty	
Agra	28.85	732.7	29.38	746.4	97.1	36.2	41	w.	6.0	2.7			8		w.	0	0	d. clouds	
Nagpur	28.51	724.2	29.55	750.5	78.7	25.9	88	n.	8.0	3.6			10		nw.	0.27	6.9	drizzling	
Jubbulpore	28.21	716.4	29.55	750.5	79.8	26.6	72	e.	4.0	1.8			10		ne.	0	0	overcast	
Lucknow	29.01	736.8	29.37	745.9	99.4	37.4	40	nnw.	5.0	2.2			0			0.06	1.5	blue sky	
Allahabad	29.07	738.3	29.37	745.9	93.3	34.1	60	calm	0	0			10		nw.	0	0	overcast	
Patna	29.27	743.5	29.46	748.2	77.1	25.1	92	n.	4.3	1.9			10	n.	n.	5.13	130.3	overcast	
Hazaribagh	27.48	697.9	29.44	747.8	82.5	28.1	77	nnw.	13.2	5.9			10			0	0		
Cuttack	29.46	748.3	29.54	750.3	87.1	30.6	78	wnw.	6.0	2.7			8			0	0	d. clouds	
Calcutta, Alipore	29.46	748.4	29.49	748.9	78.6	25.9	87	s.	6.0	2.7			10			0.76	19.3	drizzling	
Dhubri	29.38	746.1	29.49	749.1	82.2	27.9	87	calm	0	0			9			0.59	15.0	d. clouds	
Chittagong	29.51	749.6	29.60	751.9	77.7	25.4	95	sse.	5.9	2.6			10	s.	s.	0.36	9.1	overcast	
Sibsagar	29.18	741.2	29.51	749.5	87.4	30.8	75	sw.	2.0	0.9			10	sw.	sw.	0	0	d. clouds	
Jeypore	28.06	712.6	29.45	748.1	91.7	33.2	58	n.	6.8	3.0			8		n.	0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Zanzibar	30.00	762.0	30.02	762.6	82.3	27.9	67	wsw.	8.0	3.6			5	se.		0	0		
Bellary	28.17	715.5			94.0	34.4	32	w.	16	7.2		6 ck	0					d. clouds	
ITALIAN.																			
Udine	29.47	748.5	29.87	758.6	72.5	22.5	78	s.	3.8	1.7			10			0.988	25.1		Prof. Giovanni Clodig.
Milan	29.33	744.9	29.84	757.8	74.5	23.6	61	s.	4.3	1.9			10	wsw.		0.004	0.1		Prof. G. V. Schiapparelli.
Padua	29.70	754.4	29.81	757.1	77.2	25.1	52	s.	7.4	3.3			8	ssw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.94	735.1	29.83	757.6	67.6	19.8	74	ne.	3.1	1.4			7	ne.		0.140	3.7		Prof. F. F. Denza.
Genoa	29.72	754.8	29.91	759.6	67.6	19.8	80	se.	10.5	4.7			10	s.		0.039	1.0		Prof. G. M. Garibaldi.
Mondovi	27.98	710.5	29.86	758.4	63.1	17.3	87	s.			2		10			0.051	1.3		Prof. D. C. Bruno.
Pesaro	29.82	757 5	29.87	758.7	76.3	24.6	55	nw.	4.3	1.9			10			0	0		Prof. Luigi Guidi.
Florence	29.68	753.9	29.93	760.3	76.5	24.7	52	sw.			4		10	sw.		0.039	1.0		Prof. Costantino Pittei.
Leghorn	29.83	757.7	29.91	759.8	72.7	22.6	72	ssw.	3.1	1.4			10	wsw.		0	0		Prof. P. Monte.
Rome	29.80	757.0	29.97	761.3	76.8	24.9	53	sw.	9.4	4.2			1			0	0		Prof. P. Tacchini.
Lecce	29.68	753.8	29.92	759.9	77.7	25.4	52	ne.	9.4	4.2			1	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.06	738.2	29.91	759.7	82.4	28.0	66	wsw.	3.8	1.7			3	sw.		0	0		Prof. D. Conti.
Cagliari	29.74	755.5	29.93	760.3	73.4	23.0	45	s.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.73	755.2	29.98	761.4	72.3	22.4	64	ne.	7.4	3.3			2			0	0		Prof. G. Caccintore.
Syracuse	29.90	759.4	29.94	760.5	80.4	26.9	63	ssw.	6.3	2.8			2	sw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.48	748.9	30.00	761.9	73.0	22.8	71	sw.	8.1	3.6			9	wsw.		0	0		Prof. F. Brioschi.
Stelvio	22.13	562.0			42.6	5.9	80	w.			2		10			0.776	19.7	covered	Prof. P. F. Denza.
Valdobbia	21.88	555 8			39.2	4.0	72	e.			4		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.87	758.7	29.90	759.6	65.4	18.6	95	calm			0	9c;ck	0	s.		0	0	cloudy	H. Hattori.
Awomori	29.81	757.2	29.84	757.9	64.6	18.1	87	wnw.	3.4	1.5		0	0			0	0	clear	K. Ogawa.
Hamamatsu	29.88	758.9	29.91	759.6	72.0	22.2	89	w.			4	4ck;cs	5 s	nw.	w.	0	0	cloudy	Y. Sekigawa.
Kanazawa	29.81	757.1	29.91	759.6	71.0	21.7	81	ne.	1.1	0.4		4 ck	6 ck	nw.		0	0	cloudy	S. Endo.
Kagoshima	29.93	760.1	29.94	760.4	73.8	23.2	95	calm			0	6 c;cs	0	w.		0.165	4.2	fair	G. Miyanohaza.
Kioto	29.75	755.6	29.92	760.0	72.5	22.5	82	sse.	3.1	1.3		10 cs	0	nw.		0	0	cloudy	M. Tojima.
Kochi	29.93	760.1	29.95	760.6	73.1	22.8	89	s.	5.7	2.5			10 n		s.	0.310	7.9	raining	K. Kusunose.
Miasaka	29.91	759.6	29.93	760.3	74.1	23.4	98	se.			1	1 ck	9 s	w.	w.	0.390	9.9	cloudy	K. Masusaki.
Miyako	29.75	755.8	29.87	758.6	59.0	15.0	94	w.	1.9	0.8		0	0			0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.71	754.6	29.90	759.4	72.5	22.5	96	sw.	3.0	1.3			10 n		sw.	0.070	1.8	light rain	S. Takehayashi.
Niigata	29.87	758.7	29.90	759.4	68.7	20.4	87	n.	inap.	inap.			10 ks		sw.	0	0	cloudy	M. Morita.
Nobiru	29.86	758.4	29.88	758.8	67.1	19.5	90	calm	1.5	0.7		9cs;ck	0	nw.		0	0	cloudy	H. Midzushina.
Numazu	29.88	758.9	29.92	759.9	71.9	22.2	82	ssw.			4	3 ck	7 s;ks	w.	w.	0	0	cloudy	R. Kaneda.
Osaka	29.91	759.7	29.92	760.1	71.7	22.1	87	w.	12.6	5.6		9 cs	1 s	nw.		0	0	cloudy	H. Omura.
Sakai	29.87	758.6	29.88	758.8	73.8	23.2	84	ne.			2		10 ks		ssw.	0.020	0.5	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	29.81	757.2	29.88	759.0	69.1	20.6	87	s.	4.9	2.1		9cs;ck	0	sw.		0	0	cloudy	The Staff.
Wakayama	29.87	758.7	29.92	760.0	72.7	22.6	81	s.	5.5	2.5		10 c	0	n.		0	0	cloudy	K. Sakai.
Shimonoseki	29.74	755.5	29.89	759.2	71.3	21.8	98	calm			0		10 n			0.323	8.2	raining	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	73.8	23.2	60	e.	11.5	5.1		0	6 ks		se.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.69	601.7	29.91	759.7	59.0	15.0	78	ene.	inap.	inap.		4 cs	0	ne.		0	0	fair	Prof. Vicente Fernandez
Leon	24.32	617.7	29.94	760.5	61.9	16.6	81	wnw.	0.9	0.4		9 c	1 k			0	0	covered	Prof. M. Leal.
Mazatlan	29.62	752.3	29.88	758.8	81.5	27.5	76	se.	1.6	0.8		1 cs	1 cn		se.	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					75	23.9	90	ne.	5.0	2.2		0	2 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.95	760.6	29.95	760.6	58.5	14.7		n.			4					0.122	3.1		
Groningen	29.83	757.7	29.89	759.1	55.9	13.3		w.			4					0.118	3.0		
Helder	29.89	759.2	29.89	759.2	57.2	14.0		sw.			4					0	0		
Hellevoetsluis	29.93	760.1	29.93	760.1	59.0	15.0	61	ssw.			3					0.091	2.3		
Utrecht	29.89	759.2	29.94	760.4	61.2	16.2	54	wsw.			2		8			0.016	0.4	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.3			80.1	26.7	77	ne.	0.5	0.2			3			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.48	748.8	29.54	750.4	57.2	14.0	71	sse.	9	4			10			0.244	6.2	raining	
Brono	29.54	750.3	29.58	751.3	53 6	12.0	75	n.			6		9			0	0		
Christiania	29.57	751.0	29.71	754.6	59.5	15.3	64	ssw.	16	7			6			0.724	18.4		
Gjæsvær	29.69	754.2	29.72	754.8	47.3	8.5		calm			0		7						
Lodingen	29.66	753.4	29.71	754.6	52.5	11.4	64	calm			0		3			0	0		
PORTUGUESE.																			
Angra, Azores	29.95	760.8	30.11	764.8	64.8	18.2	98	se.	12.5	5.6			9			1.102	28.0		Dr. J. A. Sampaio.
Campo Major	29.07	738.3	30.04	763 1	72.3	22.4	42	wnw.	9.4	4.2			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.14	765.6	30.23	767.8	70.9	21.6	68	se.	7.4	3.3			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.83	757.6	30.16	766.0	64.9	18.3	52	nnw.	21.7	9.7			0			0	0		The Staff.
Ponta Delgada, Azores	30.00	762.1	30.08	763.9	67.3	19.6	91	ese.	9.8	4.4			10			0.339	8.6		
Saint Paul de Loando	29.78	756.5	29.99	761.7	72.5	22.5	89	wsw.			3		8			0	0		
San Salvador	28.11	714.1	29.95	760.7	76.8	24.9	70	sw.			1		4			0	0		
Serra da Estrella	25 38	644.7	30.13	765.3	48.6	9.2	60	n.	13.0	5.8			4			0	0		
RUSSIAN.																			
Akmolinski	28.68	728.5	29.69	754.1	79.9	26.6	19	wsw.	4	2		6 ck	0			0	0		Major K. Lasarew.
Archangel	29.01	750.8	29.93	760.3	60.4	15.8	56	wnw.	22	10		2 cs	0			0	0		Capt. Sselliwerstow
Ashurada	29.85	758.1	29.75	755.7	80.8	27.1	75	wnw.	18	8		0	6 kn			0	0		
Astrakhan	29.82	757.3	29.74	755 2	83.8	28.8	46	sw.	9	4			10 s;n			0	0		Capt. Wisganow.
Baku	29.80	756.9	29.75	755.7	80.4	26.9	53	nnw.	31	14		0	2 ks			0	0		
Barnaul	29.34	745.1	29.81	757.2	70.9	21.6	60	calm	0	0			9			0.051	1.3		Meteorological Obs'y
Bielosersk	29.51	749.5	29.90	760.9	73.0	22.8	46	nnw.	7	3		3 ck	0			0	0		
Dorpat	29.60	751.9	29.84	757.8	72.1	22.3	77	s.	4	2			10 kn			0.795	20.2	raining	Observatory.
Ekaterinburg	28.76	730.5	29.67	753.6	76.3	24.6	53	sse.	9	4			10			0.028	0.7		Meteorological Obs'y
Elissawetgrad	29.49	749.0	29.91	759.8	82.4	28.0	37	n.	7	3		0	4 k			0	0		
Irkutsk	28.19	716.0	29.78	756.4	60.8	16.0	54	calm			0		2			0	0		
Kasalinsk	29.39	746.5	29.57	751.0	93.6	34.2	31	n.			2	0	0						
Kasan	29.50	749.4	29.76	755.8	75.9	24.4	68	nw.	9	4			10			0	0		Observatory.
Kem	29.89	759.1	29.94	760.4	60.6	15.9	52	e.	18	8		0	2 k			0.035	0.9		
Kertch	29.84	758.0	29.87	758 6	80.2	26.8	42	n.	4	2		0	1 k			0	0		Lagorio & Sastyres.
Kieff	29.29	744.0	29.89	759.2	80.8	27.1	35	ese.	4	2		0	2 k			0	0		Observatory.
Koslov	29.24	742.7	29.76	755.8	72.0	22.2	68	nne.	18	8			9 ks			0.181	4.6		
Libau	29.85	758.2	29.87	758.8	59.0	15.0	87	nw.	7	3			10			0.003	1.6		E. Quaas.
Lugan	29.51	749.6	29.69	754.2	69.8	21.0	80	nw.	13	6			10			0.154	3.9		Meteorological Obs'y.
Moscow	29.43	747.6	29.88	758.9	76.5	24.7	46	nne.	4.5	2.0		0	6 ks			0.020	0.5		Meteorological Obs'y
Nikolaiev	29.85	758.2	29.93	760.1	86.0	30.0	46	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.66	753.3	29.74	755.5	52.0	11.1	66	e.	7	3			10			0.213	5.4		Iwanow.
Pekin, China	29.52	749.7	29.66	753.3	83.1	28.4	56	se.	3.4	1.5		0	3 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.36	745.7	29.68	753.9	90.1	35.0	4	n.	4.5	2.0			0			0	0		
Petrozavodsk	29.76	756.0	29.95	760.8	66.2	19.0	54	ese.	11	5		0	8 ks			0.039	1.0		Dr. Bergmann.
Pinsk	29.39	746.4	29.85	758.3	83.1	28.4	44	se.	9	4		0	0			0	0		
Poti	29.87	758.7	29.90	759.5	80.1	26.7	72	w.	4	2		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
St. Petersburg	29.85	758.3	29.88	758.9	76.6	24.8	42	sse.	13	6			9 k			inap.	inap.		Central Physical Obs'y.
Samarkand	27.37	695.2	29.71	754.5	78.6	25.9	60	calm	0	0		0	0			0	0		
Semipalatinsk	29.20	741.6	29.81	757.1	83.7	28.7	24	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.68	753.8	29.89	759.2	86.0	30.0	33	wsw.	16	7		0	1 ks			0	0		
Staroi Bykhov	29.54	750.3	29.97	761.2	84.6	29.2	38	se.	7	3		0	5 k			0	0	light clouds	
Tashkend	28.03	712.0	29.55	750.6	94.3	34.6	19	calm	0	0		0	1 s			0	0		Torch, A. M.
Tiflis	28.39	721.2	29.72	754.9	86.0	30.0	34	nw.	9	4		0	4 k			0	0		Physical Observatory.
Vernoe	27.22	691.5	29.57	751.1	79.2	26.2	46	calm	0	0		0	0			0	0		
Viatka	29.17	740.8	29.76	756.0	77.0	25.0	42	nw.	2	1			2			0	0		
Warsaw	29.38	746.3	29.79	756.6	72.1	22.3	70	s.	7	3		0	6 k			0.583	14.8		Astronomical Obs'y.
Yeniseisk	29.52	749.9	29.81	757.1	52.3	11.3	73	w.	9	4			5			0.004	0.1		M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.95	760.7	54	12.2	93	n.			6		10			0	0	cloudy	J. Youngclause
North Unst			29.75	755.6				n.			7		7						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.96	760.9	30.06	763.5	61.9	16.6	84	e.	4.3	1.9			10			0.346	8.8	raining	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.13	765.3	30.19	766.8	64.4	18.0	78	nw.	2.2	1.0		2	3	ne.		0.051	1.3	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.2	30.19	766.8	55.4	13.0	77	n.	4.3	1.9		0	6			0.071	1.8	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.81	706.3	29.97	761.3	69.4	20.8	49	ne.	8.9	4.0		0	8			0.134	3.4	cloudy	The Staff.
Murcia, Met. Obs'y	29.80	756.9	29.91	759.8	75.6	24.2	54	ene.	6.3	2.8		3	3	nw.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.42	747.3	30.18	760.6	54.5	12.5	85	se.	12.8	5.7		6 kn	4 n	sw.	w.	0.118	3.0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.32	744.6	30.21	767.3	61.7	16.5	53	n.	14.3	6.4			7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761.7	30.05	763.3	78.0	25.6	84	ese.	5.6	2.5		2 c	0	nne.		0.26	6.6	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.4	81.5	27.5	78	n.	2.2	1.0		0	8 k			blank	blank	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.04	763.1	30.14	765.5	71.2	21.8	54	w.	16.4	7.3		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	29.96	761.0	30.05	763.3	79.9	26.6	95	se.	6.3	2.8		4 cs	6 kn	se.	se.	0.039	1.0	cloudy	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.75	755.7	29.79	756.7	58.6	14.8	70	s.			4		10			0.169	4.3		
Umea	29.70	754.3	29.75	755.6	59.0	15.0	89	sw.			2		10			0	0		
Hernosand	29.70	754.3	29.75	755.6	60.4	15.8	71	s.			2		10			0	0		
Stockholm	29.61	752.1	29.79	756.6	68.7	20.4	44	ssw.			2		10			0.091	2.3		
Wisby	29.77	756.1	29.83	757.6	61.2	16.2	83	wsw.			2		10			0.539	13.7		
Sub-series.																			
Upsala	29.67	753.6	29.76	755.8	67.1	19.5	45	sw.	11.9	5.3			10			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.61	726.6	30.02	762.4	59.5	15.3	58	ene.			3		9			0.134	3.4	covered	The Observatory.
TURKISH.																			
Constantinople			29.88	759.0	78.8	26.0	61	ne.	13	6.0			3		ne.	0	0		The Observatory.
Valona			30.11	764.7	79.7	26.5		nw.			1		0			0	0	clear.	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.79	756.7	84.7	29.3	64	sw.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.70	678.2			76	24.4	62									0	0	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.00	762.0	30.08	764.0	64.7	18.2	74	s.	6	2.7		7 c	3 s	w.	sw.	0.01	0.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.31	744.5	29.96	761.0	60	15.6	81	calm	0	0		10 cs	0	sw.		0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	29.85	758.2	42	5.6	55	e.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.07	687.6	29.86	758.4	55	12.8	74	w.	13	5.8		0	5 k		w.	0	0	fair	B. O. Lenoir.
Atlanta, Georgia	29.04	737.6	30.20	767.1	77.5	25.3	76	s.	5	2.2		1 c	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.09	764.3	30.10	764.5	63	17.2	90	se.	4	1.8			10 s			inap.	inap.	cloudy	Jas. M. Watson.
Augusta, Georgia	30.02	762.5	30.21	767.3	74.0	23.3	83	calm	0	0		1 cs	0			0	0	clear	John Healy.
Baltimore, Maryland	30.04	763.0	30.10	764.5	66	18.9	90	e.	3	1.3			10 s			0.76	19.3	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	30.08	764.0	30.10	764.5	62.0	16.7	84	s.	9	4.0			10 n			inap.	inap.	light rain	G. A. Hill.
Behring Id., Behring Sea	29.31	744.5	29.33	745.0	40.0	4.4	99	e.	3	1.3			10 n			0.22	5.6	light rain	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.27	718.0	29.81	757.2	63.0	17.2	93	ne.	3	1.3			10 n			0.34	8.6	heavy rain	A. Pritchard.
Benton, Fort, Montana	27.15	689.6	29.92	760.0	64	17.8	65	sw.	10	4.5		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.69	677.9	29.93	760.2	51	10.6	74	s.	4	1.8		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.03	711.9	29.79	756.7	63	17.2	78	ne.	5	2.2		4 cs	4 s		ne.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.12	765.0	30.14	765.5	60	16.6	93	s.	7	3.1			10 s		w.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.18	690.4	29.96	761.0	55	12.8	64	nw.	2	0.9		2 cs	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.98	761.5	30.13	765.3	62.0	16.7	78	sw.	5	2.2		5 ck	4 s			0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.93	760.2	76.0	24.4	94	e.	1	0.4		0	2 s		se.	0	0	clear	E. C. Imlay.
Buffalo, New York	29.26	743.2	30.00	762.0	65	18.3	92	s.	5	2.2			10 s		sw.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota	27.87	707.9	29.83	757.7	59	15.0	84	e.	9	4.0		0	2 s			0	0	clear	A. Schneider.
Burlington, Vermont																			D. N. Farnell.
Cairo, Illinois	29.67	753.6	30.06	763.5	80.9	27.2	79	sw.	12	5.4		4 c	0	w.		0	0	fair	W. H. Ray.
Cape Henry, Virginia	30.09	764.3	30.11	764.8	72.0	22.2	62	s.	14	6.3		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.07	763.8	30.10	764.5	64.0	17.8	84	se.	10	4.5			10 s			0.17	4.3	cloudy	W. E. Smith.
Cape Mendocino, California	29.26	743.2	29.94	760.5	48	8.9	100	calm	0	0			fg.			0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	81	27.2	82	e.	9	4.0		2 k	1 k		e.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.13	765.3	30.18	766.6	77	25.0	85	s.	2	0.9		0	hz.			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.32	744.7	30.15	765.8	77.0	25.0	69	s.	3	1.3		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.18	766.6	72.0	22.2	90	calm	0	0			fg.			0	0	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.00	609.6	29.74	755.4	47.2	8.4	74	nw.	4	1.8			9 s		nw.	1.33	33.8	cloudy	E. McGovern.
Chicago, Illinois	29.27	743.4	29.96	761.0	72.1	22.3	66	sw.	5	2.2		4 c	0	w.		0	0	fair	John Laurens.
Chincoteague, Virginia	30.09	764.3	30.11	764.8	70	21.1	76	se	4	1.8		5 ck	0	n.		0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.43	747.5	30.08	764.0	77.0	25.0	76	se.	3	1.3		3 k	0	s.		inap.	inap.	clear	L. Dunne.
Cleveland, Ohio	29.31	744.5	30.04	763.0	71.5	21.9	74	sw.	9	4.0			10 s		w.	0.06	1.5	cloudy	J. B. Newlin.
Coleman City, Texas	28.16	715.3	29.91	759.7	72	22.2	82	s.	8	3.6		4 cs	0			0.01	0.3	fair	T. J. Kenau.
Columbus, Ohio	29.22	742.2	30.06	763.5	70	21.1	84	s.	4	1.8		2 cs	0	sw.		0.59	15.0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.01	711.4	29.88	758.9	75.4	24.1	74	s.	10	4.5		0	0			0.03	0.8	clear	J. McGlone.
Davenport, Iowa	29.24	742.7	29.88	758.9	70	21.1	84	se.	3	1.3			10 s		sw.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	29.80	756.9	67	19.4	55	calm	0	0		0	0			0.08	2.0	clear	J. Williams.
Dayton, Washington T'y	28.28	718.3	30.02	762.5	51	10.6	72	sw.	2	0.9		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.32	643.1	29.76	755.9	52	11.1	69	ne.	1	0.4		0	0			0.14	3.6	clear	F. Willson.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	63	17.2	90	se.	11	4.9		0	8 k		s.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.72	627.9	29.76	755.9	51.7	10.7	79	s.	4	1.8		1 c	0			0.05	1.3	clear	F. M. Neal.
Des Moines, Iowa	28.94	735.1	29.82	757.4	66.5	19.2	90	e.	3	1.3			10 n		e.	0.75	19.0	thund'r st'm	F. W. Conrad.
Detroit, Michigan	29.30	744.2	29.99	761.7	70.0	21.1	84	sw.	6	2.7		3 c	0	sw.		0.44	11.2	clear	E. R. Brace.
Dodge City, Kansas	27.23	691.6	29.74	755.4	68	20.0	84	sw.	8	3.6		0	0			0.16	4.1	clear	D. J. Carr.
Dubuque, Iowa	29.22	742.2	29.91	759.7	70.3	21.3	88	sw.	2	0.9			10 s		sw.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.16	740.7	29.89	759.2	66	18.9	63	calm	0	0		10 cs	0	w.		0	0	cloudy	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho																			H. R. Boynton.
Eastport, Maine	30.14	765.5	30.21	767.3	53.0	11.7	72	s.	3	1.3			10 s		w.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.10	683.3	29.77	756.1	63	17.2	68	se.	16	7.2		5 c	0	se.		0.60	15.2	fair	W. J. Cundall.
El Paso, Texas	26.26	667.0	29.85	758.2	63.0	17.2	90	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.29	744.0	30.01	762.2	72	22.2	82	sw.	6	2.7		4 cs	0	w.		inap.	inap.	fair	C. A. Shaw.
Escanaba, Michigan	29.29	744.0	29.94	760.5	55.2	12.9	89	calm	0	0			fg.			0	0	dense fog	George Heathcote.
Galveston, Texas	29.96	761.0	30.00	762.0	83	28.3	74	se.	4	1.8		2 ck	5 ks	s.		0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.32	744.7	29.97	761.2	64.5	18.1	84	s.	12	5.4			10 s		sw.	0.05	1.3	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.27	641.8	29.81	757.2	58.9	14.9	39	e.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.12	765.0	30.14	765.5	73	22.8	76	w.	9	4.0		3 k	0	sw.		0	0	clear	R. M. Crawford.
Helena, Montana	25.76	654.3	29.88	758.9	56	13.3	80	sw.	3	1.3		0	0			0	0	clear	H. W. Dodge.

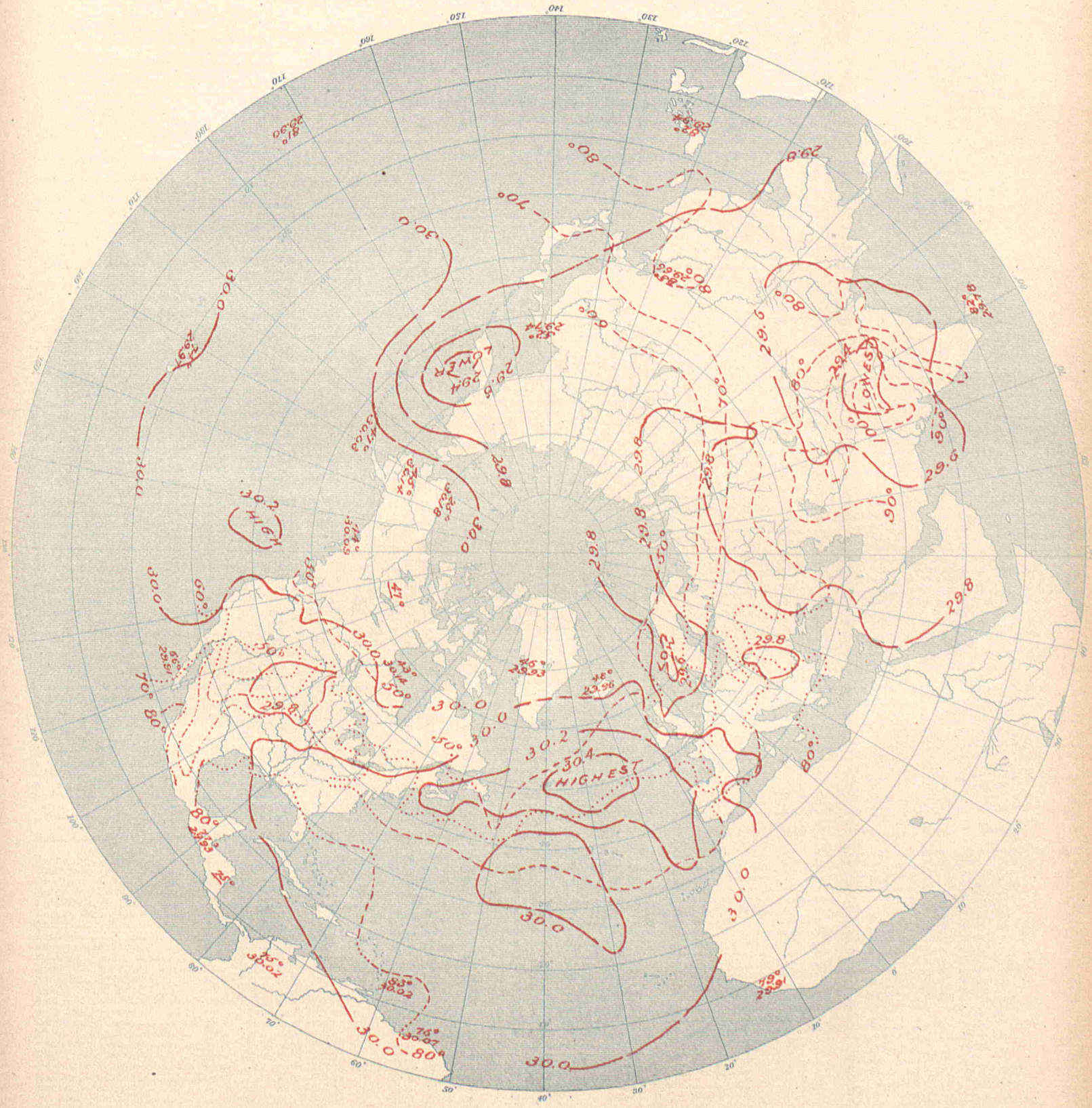
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.41	721.6	29.75	755.6	70	21.1	73	e.	10	4.5			10 ks		se.	inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.23	742.4	30.01	762.2	76.6	24.8	64	s.	3	1.3		5 cs	0			0	0	fair	C. F. R. Wappenhans.
Indianola, Texas	29.95	760.7	29.98	761.5	79.1	26.2	90	calm	0	0		0	0			inap.	inap.	clear	I. A. Reed.
Jacksonville Florida	30.11	764.8	30.15	765.8	77.0	25.0	97	e.	3	1.3		0	fg.			0.60	15.2	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.24	742.7	29.88	758.9	70.0	21.1	84	se.	2	0.9			10 s		se.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	84.0	28.9	67	se.	6	2.7		2 cs	3 ks		se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	72	22.2	71	sw.	11	4.9		0	hz.			0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.17	740.9	30.18	766.6	69.6	20.9	97	sw.	1	0.4		2 c	fg.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.88	758.9	68	20.0	70	s.	2	0.9			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.90	734.0	29.77	756.1	74	23.3	84	s.	14	6.3			10 ks		sw.	1.91	48.8	cloudy	A. W. Brown.
Lewiston, Idaho	29.07	738.4	29.89	759.2	59.0	15.0	65	e.	3	1.3		3 cs	3 s	sw.		0	0	fair	H. S. Blandford.
Little Rock, Arkansas	29.70	754.4	30.02	762.5	78	25.6	82	calm	0	0		4 c	0			inap.	inap.	fair	W. U. Simons.
Los Angeles, California	29.59	751.6	29.98	761.5	62	16.7	87	w.	3	1.3			10 s		w.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.50	749.3	30.05	763.3	79	26.1	77	s.	4	1.8		0	1 s			inap.	inap.	clear	L. M. Dey.
Lynchburg, Virginia	29.43	747.5	30.10	764.5	73	22.8	76	nw.	1	0.4		2 c	3 ks	nw.	nw.	0	0	fair	Lou's Duane.
Mackinaw City, Michigan	29.30	744.2	29.94	760.5	62.0	16.7	84	se.	8	3.6		7 c	0			0.08	2.0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.16	766.1	30.17	766.3	73.0	22.8	82	n.	6	2.7		0	4 k		n.	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.51	647.9	29.84	757.9	58	14.4	44	w.	23	10.3		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.20	741.7	29.92	760.0	66	18.9	68	calm	0	0		7 c	0	sw.		0.03	0.8	fair	J. Gilligan.
Memphis, Tennessee	29.71	754.6	30.04	763.0	79	26.1	77	s.	1	0.4		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.20	741.7	29.94	760.5	68	20.0	93	w.	8	3.6			10 s		w.	0.40	10.2	cloudy	W. Line.
Missoula, Fort, Montana	26.75	679.4	30.01	762.2	56	13.3	47	ne.	8	3.6		0	4 s			0	0	fair	J. H. Young.
Mobile, Alabama	30.07	763.8	30.11	764.8	82	27.8	79	se.	8	3.6		0	1 k		se.	0	0	clear	C. A. Read.
Montgomery, Alabama	29.89	759.2	30.12	765.0	78.2	25.7	77	calm	0	0		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.86	733.0	29.83	757.7	60	15.6	75	se.	2	0.9		5 cs	0			0	0	fair	H. White.
Mt. Washington, N. H.	23.98	609.1	30.10	764.5	51.0	10.6	93	nw.	6	2.7			10 s			0	0	cloudy	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.10	764.5	75.5	24.2	85	e.	3	1.3		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.00	762.0	30.11	764.8	61	16.1	72	s.	6	2.7		0	8 ks		sw.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.08	764.0	30.13	765.3	62	16.7	78	se.	4	1.8		4 k	4 s	se.	se.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.04	763.0	80.5	26.9	82	s.	6	2.7		0	1 k		s.	inap.	inap.	clear	M. Herman.
New York, New York	29.95	760.7	30.12	765.0	62.5	16.9	74	se.	7	3.1			10 s			0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	30.08	764.0	30.11	764.8	74.2	23.4	71	sw.	11	4.9		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	26.89	683.0	29.69	754.1	58.6	14.8	94	w.	4	1.8		0	4 s			2.35	59.7	fair	E. F. Brady.
Olympia, Washington T'y	30.09	764.3	30.13	765.3	48.0	8.9	77	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.62	726.9	29.76	755.9	66.0	18.9	88	se.	4	1.8			10 n		s.	0.74	18.0	light rain	A. Pollak.
Oogkamie, Alaska	30.16	766.1	30.18	766.6	25.0	— 3.9	100	nne.	6	2.7		5 cs	2s;fg			inap.	inap.	fair	P. H. Ray.
Oswego, New York	29.67	753.6	29.99	761.7	68.0	20.0	78	s.	6	2.7			10 ks		w.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.49	749.0	30.03	762.7	76.0	24.4	90	s.	2	0.9		3 c	0			0	0	clear	J. W. Byram.
Pensacola, Florida	30.09	764.3	30.12	765.0	81.7	27.6	74	se.	10	4.5		0	4 k		e.	inap.	inap.	fair	M. McGauran.
Philadelphia, Pa	30.02	762.5	30.12	765.0	65	18.3	90	se.	3	1.3			10 s			0.01	0.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.84	453.1	29.66	753.4	21	— 6.1	73	n.	40	17.9		0	0			0	0	clear	H. Hall.
Ploche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.27	743.4	30.06	763.5	70.5	21.4	84	sw.	4	1.8		3 ck	2 s	nw.	nw.	0.30	7.6	fair	W. A. Reid.
Poplar River, Montana	27.72	704.1	29.82	757.4				sw.			4	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.27	743.4	29.94	760.5	72.0	22.2	84	w.	11	4.9		0	0			0.66	16.8	clear	M. H. Perry
Portland, Maine	30.08	764.0	30.13	765.3	62.0	16.7	78	s.	6	2.7			10 ks		w.	0	0	cloudy	W. W. Eichelberger
Portland, Oregon	29.96	761.0	30.04	763.0	54.0	12.2	80	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					74	23.3	82	w.	3	1.3		6 c	0			0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.80	629.9	29.82	757.4	45.0	7.2	48	s.	3	1.3		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.13	765.3	30.16	766.1	65	18.3	73	sw.	8	3.6			10 ks		s.	0	0	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.56	750.8	29.91	759.7	68	20.0	61	calm	0	0		4 c	0			0	0	fair	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.49	749.0	30.04	763.0	52.6	11.4	83	calm	0	0		3 c	0	w.		0	0	clear	J. J. Nanry.
Sacramento, California	29.85	758.2	29.92	760.0	58.0	14.4	80	s.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.40	746.7	29.98	761.5	69.5	20.8	92	se.	11	4.9		10 cs	0			0.29	7.4	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.11	764.8	30.14	765.5	45	7.2	83	n.	1	0.4			10 s			0.07	1.8	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.03	737.3	29.87	758.7	64.5	18.1	90	sw.	5	2.2			10 s			0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.00	736.6	29.85	758.2	57.5	14.2	90	s.	3	1.3		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.66	651.8	29.88	758.9	58	14.4	36	se.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.86	758.4	29.93	760.2	64.7	18.2	79	nw.	6	2.7			10 s			0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.08	764.0	30.11	764.8	63.0	17.2	84	s.	10	4.5		5 k	5 s	s.	s.	0	0	cloudy	B. A. Blundon.
Sanford, Florida	30.08	764.0			79.5	26.4	88	e.	4	1.8		7 ck	0	sw.		inap.	inap.	fair	J. B. Marbury.
San Francisco, California	29.91	759.7	29.98	761.5	55	12.8	90	sw.	7	3.1			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.09	764.3	30.18	766.6	73	22.8	97	se.	2	0.9		0	fg.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.32	668.5	29.89	759.2	55	12.8	69	w.	4	1.8		6 k	0	w.		0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.77	756.1	30.00	762.0	77.5	25.3	86	s.	2	0.9		6 c	0	w.		0	0	fair	L. A. Welsh.
Sill, Fort, Indian Territory	28.66	728.0	29.86	758.4	76.5	24.7	75	s.	24	10.7		2 k	5 ks		s.	0	0	fair	W. M. Mattingly.
Sitka, Alaska	30.03	762.7	30.09	764.3	43.8	6.6	74	w.	3	1.3		6 c	0	w.		0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.54	750.3	30.00	762.0	76.0	24.4	74	w.	12	5.4		6 cs	0	sw.		0	0	fair	J. B. Campbell.
Smithville North Carolina	30.15	765.8	30.19	766.8	73	22.8	76	nw.	5	2.2		3 c	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.95	709.9	29.99	761.7	54	12.2	74	calm	0	0		0	3 k			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.31	744.5	29.98	761.5	69.5	20.8	84	s.	7	3.1		5 c	2 s	sw.	sw.	0.19	4.8	fair	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	26.93	684.0	29.85	758.2	71	21.7	100	sw.	12	5.4		8 ck	0	sw.		0.30	7.6	cloudy	A. J. Warren.
Thomas, Camp, Arizona	27.23	691.6	29.86	758.4	55	12.8	47	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.30	744.2	29.98	761.5	77	25.0	60	sw.	7	3.1		3 c	0	w.		0	0	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	30.01	762.2	30.03	762.7	47	8.3	77	w.	4	1.8			8 k		w.	0.09	2.3	cloudy	Samuel Applegate.
Verde, Fort, Arizona					56	13.3	17	e.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.84	757.9	30.09	764.3	78.4	25.8	82	se.	2	0.9		0	0			0.29	7.4	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.98	761.5	30.10	764.5	67.9	19.9	89	e.	2	0.9			10 s		sw.	0.15	3.8	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.00	660.4	29.78	756.4	56.5	13.6	69	w.	6	2.7		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	30.13	765.3	30.18	766.6	73.0	22.8	82	w.	2	0.9		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.50	723.9	29.78	756.4	68	20.0	84	s.	11	4.9			10 ks			0.07	1.8	cloudy	J. H. Atfield.
Yuma, Arizona	29.66	753.4	29.80	756.9	69.9	21.1	82	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.01	762.2	82	27.8	67	n.	1	0.4		7cics	0	nw.		0	0	fair	Robert Johnston.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	76	24.4	86	se.			2		8 ks	e.		0.020	0.5	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.46	748.3	30.02	762.5	75	23.9	94	calm			0		10 ks		calm	1.70	43.2	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75	23.9	97	ene.			1	c		ne.		0.33	8.4	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos
York Factory, B. A.	30.08	764.0	30.14	765.5	42.5	5.8	96	sw.	11	4.9		3 k	2 s	sw.	sw.	0.10	2.5	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 44° 40′, E. 13° 56′	29.92	760.0	74	23.3	72	wsw.			1		3	wsw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.00	762.0	76	24.4	86	wnw.			2		7	wnw.						d. clouds.
H. M. S. Gannet, N. 32° 37′, W. 16° 55′	30.19	766.8	71	21.7	66	ese.			2–4		1	w.						
H. M. S. Himalaya, N. 37° 12′, E. 10° 55′	30.01	762.2	72	22.2	80	e.			2		2					1	ene.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.81	757.2	80	26.7	100	nw.			2–4		0							blue sky.
H. M. S. Monarch, Trieste, Austria	29.80	756.9	73	22.8		wnw.			2		2					2	w.	d. clouds.
H. M. S. Minotaur, Arosa Bay, Spain	30.24	768.1	63	17.2	52	n.			4		4					1	wnw.	d. clouds.
H. M. S. Opal, Sierra Leone, Africa	30.01	762.2	82	27.8	79	calm			0		3	calm						d. clouds.
H. M. S. Superb, N. 42° 52′, E. 16° 01′ *	29.90	759.4	76	21.4	82	sse.			3		4	ssw.				1	sse.	d. clouds.
H. S. M. S. Eugenie, N. 37° 01′, W. 8° 37′	30.16	766.1	64.4	18.0	81	nnw.			6		4							d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	30.07	763.8	64	17.8	78	calm	0	0			10		s.	0	0			cloudy.
U. S. S. Constellation, off Thomas Point, Md *	30.10	764.5	68	20.0	84	calm			0		10		se.			sm'h		cloudy.
U. S. S. Lancaster, Kronstadt, Russia	29.95	760.7	73	22.8	81	se.			2		2		s.			sm'h		fair
U. S. S. Nipsic, N. 39° 37′, W. 64° 51′	30.11	764.8	67	19.4	79	e.			3		2		e.			long	ene.	fair.
U. S. S. Portsmouth, Conimicut, R.I.	30.20	767.1	59	15.0	94	s.			3		10							raining.
U. S. S. Powhatan, Port Royal, S. C.	30.16	766.1	79	26.1	95	n.			0–1		2							clear.
U. S. S. Quinnebaug, Gaboon river, Guinea	30.00	762.0	81	27.2	78	ssw.			1		8		sw.	0	0	sm'h		fair.
U. S. S. Saratoga, Race Rock, Long Island, N. Y.	30.16	766.1	59	15.0	100	sse.			1–2		10		se.	light	light	sm'h		overcast.
U. S. S. Vandalia, N. 20° 31′ N. 70° 47′	30.08	764.0	80	26.7	87	e.			4		5		e.			long		fair.
U. S. S. Yantic, N. 43° 01′, W. 62° 59′	30.31	769.9	57	13.9	81	e.			2		2					long		fair.
Cottica, N. 9° 02′, W. 56° 05′	30.01	762.2	81.5	27.5	73	ne.			5		5							d. clouds.
May Hulse, N. 5° 12′, W. 26° 14′	29.98	761.5	76	24.4	86	ese.			2		10							raining.
H.P.M.S. Rio Lima, N. 17° 15′, W. 20° 22′			72.5	22.5	88	nnw.			2		0					2	ne.	blue sky.
S. S. British Crown, N. 49° 04′ W. 30° 17′†	30.57	776.5	66	18.9		ese.			4		0			0	0	sm'h		fine.
S. S. British Prince, N 40° 09′ W. 56° 05′†	30.12	765.0	67	19.4		ene.			6		7		e.	3 h'r	3 h'r	mod.	e.	cloudy.
S. S. Illinois, N. 48° 25′, W. 28° 10′	30.47	773.9	59	15.0		se.			5		1		se.			sm'h	se.	fine.
S. S. Lord Clive, N. 38° 57′, W. 71° 39′						calm			0		6		w.	0	0	sm'h		fine.
S. S. Ohio, Liverpool, Eng †	29.89	759.2	55	12.8		wnw.			5		5		nw.	0	0			
S. S. Pennsylvania, Philadelphia, Pa†	30 11	764.8	64	17.8		wsw.			2		2			0	0			clear.
S. S. British Princess, N. 41° 53′, W. 54° 33′			59	15.0		nne.			2		5		nne.			mod.	nne.	misty.
S. S. Circassian, N. 48° 50′, W. 63° 23′	30.12	765.0	49	9.4	85	sw.			5		6					sm'h		d. clouds.
S. S. Grecian, Montreal, Canada	29.93	760.2	75	23.9	86	s.			2		10		s.	1 h'r	1 h'r			cloudy
S. S. Nova Scotian, N. 40° 54′ W. 66° 35	30.24	768.1	56	13.3		e.			2		0					sm'h		clear.
S. S. Polynesian, N. 54° 58′, W. 18° 21′	30.30	769.6	56	13.3		n.			4		10		nne.	0	0	mod	ne.	overcast.
S. S. Prussian, N. 53° 12′ W. 15° 15′	30.21	767.3	59	15.0		wnw.			4		5		wsw.			cross	wnw.	
S. S. Manitoban, N. 52° 57′, W. 13° 11′	30.26	768.6	54	12.2	74	n.			5		8		n.	3 h'r	3 h'r	mod.	n.	cloudy.
S. S. Scandinavian, N. 42° 51′, W. 62° 01′	30.21	767.3	54	12.2		var.			1							light	ne.	blue sky.
S. S. Alvo, Mayaguez, Porto Rico, W. I *	30.05	763.3	80	26.7		calm			0		9		calm	0	0			
S. S. Alene, N. 14° 54′ W. 78° 06′†	29.87	758.7				e.			4		5?		e.	rain	rain	r'gh	ene.	cloudy?
S. S. Anchoria, N. 54° 03′, W. 22° 18′ †	30.44	773.2				wnw.			3		6		wnw	2 h'r	2 h'r	sm'h		cloudy.
S. S. Dorian, N. 49° 40′ W. 7° 29′	30.22	767.6	58	14.4		n.			4		5		nnw.	0	0	mod.	nw.	fine.
S. S. Devonia, N. 50° 29′, W. 33° 00′ *†	30.55	776.0	56	13.3		ese.			2		1		e.					light haze.
S. S. Furnessia, N. 50° 30′, W. 25° 10′†	30.40	772.1	68	20.0	95	w.			1		10?		wnw.	0	0	sm'h	w.	clear?
S. S. Carroll, N. 43° 03′, W. 67° 03′ *†	30.30	769 6	54	12.2	100	se.			2		10		se.	0	0	long	sse.	dense fog.
S. S. Llandaff City, Bristol, Eng†	29.84	757.9	55	12.8		nnw.			6		5		wnw.	sh'rs	sh'rs			showery
S. S. Gallia, N. 41° 18′, W. 65° 48′	30.10	764.5	54	12.2	93	calm			0		0			0	0			fine.
S. S. Marathon, N. 47° 37′ W. 7° 47′	30.19	766.8	62	16.7		n.			4		5		n.	2 h'r	2 h'r	mod.	n.	
S. S. Colina, N. 49° 54′, W. 42° 18′†	30.28	769.1				ne.			1		4		ene.	2 h'r	2 h'r	mod.	ene.	hazy.
S.S. Canada, N. 49° 48′, W. 7° 50′	30.08	764.0	53.6	12		nnw.			3	c	0	nw.		0	0	sm'h	n.	clear.
S. S. Arizona, off Galley Head, Ireland			55	12.8		nw.			4		8		nw.	0	0	sm'h		cloudy.
S. S. Wisconsin, N. 41° 46′, W. 61° 28′			58	14.4		nne.			2		0			0	0	mod.	nne.	clear.
S. S. Wyoming, N 45° 17′, W. 41° 09′	30.14	765.5	61	16.1		ene.			6		7		ene.	6 h'r	6 h'r	long	ene.	fair.
S. S. Bohemia, N. 47° 46′, W. 26° 30′						ese.			4		1		ese.	0	0	mod.	ese.	fair.
S. S. Frisia, N. 49° 40′, W. 12° 07′						nnw.			5		5?		nnw.	0	0	short	nnw.	clear?
S. S. Gellert, New York, N. Y	30.12	765.0	64	17.8	73	se.			3		9		se.	0	0			covered.
S. S. Rugia, N. 46° 05′, W. 41° 21′	30.19	766.8	60	15.6		e.			6		10		e.			mod.	e.	misty.
S. S. Silesia, Hamburg, Germany	29.95	760.7	59.0	15.0		sw.			4		1		sw.	0	0			fair
S. S. City of Paris, N. 49° 01′, W. 23° 01′†*	30.50	774.7				ene.			1		1		e.	0	0	sm'h		clear.
S. S. Mentmore, N. 37° 22′, W. 73° 12′*†	30.28	769.1				e.			1		5		w.	0	0	sm'h		fine.
S S. Virginian, N. 46° 44′ W. 34° 46′			60	15.6		e.			5		10		ese.	2 h'r	2 h'r	mod.	se.	overcast.
S. S. Archimedes, N. 42° 49′, W. 43° 54′						ene.			4		10		nne.			mod.	ene.	showery.
S. S. Hevelius, N. 48° —′, W. 7° 30′			60	15.6		ne.			5		5		ne.	0	0	sm'h		fair.
S. S. Colorado, N. 29° 03′, W. 93° 23′†	30.00	762.0	78	25.6		se.			1		2		se.	0	0	small	se.	clear.
S. S. Chalmette, N. 38° 02′, W. 74° 30′†	30.21	767.3	65	18.3		s.			3		4		s.	0	0	sm'h		fair.
S. S. Lone Star, N. 27° 27′, W. 80° 04′ †	30.15	765.8	80	26.7		sse.			3		3		se.	0	0	small	se.	clear.
S. S. Alleghany, Vineyard Sound, Mass†	30.16	766.1	64	17.8		se.			2		4		s.	0	0			hazy.
S. S. City of Merida, N. 25° 04′, W. 80° 08′†	30.11	764.8	82	27.8		ese.			3		5		ese.	1 h'r	1 h'r	mod.	ese.	fair.
S. S. Denmark, New York, N. Y †	30.11	764.8	60	15.6		se.			1		5			0	0			fair.
S. S. Egypt, N. 50° 48′, W. 21° 40′	30.54	775.7	55	12.8		ne.			1		5		nne.	0	0	sm'h		fair.
S. S. England, N. 40° 30′, W. 69° 18′	30.04	763.0				sse.			2		*10		sse.	0	0	sm'h		light fog.
S. S. Erin, London, Eng	29.78	756.4	52	11.1		wsw.			5		6		sw.	0	0			fair.
S. S. Helvetia, N. 40° 33′, W. 69° 24′	30.18	766.6	57	13.9	94	calm			0		5			0	0	sm'h		hazy.
S. S. Holland, N. 49° 29′, W. 10° 32′	30.15	765.8	58	14.4		nnw.			3		10		nw.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. Donau, N. 47° 15′, W. 34° 30′	30.41	772.4				ese.			4		2		se.	0	0	mod.	ese.	clear.
S. S. Elbe, N. 44° 00′, W. 44° 43′	30.10	764.6	64	17.8	89	ne.			4–5		10		ene.	0	0	long	var.	hazy.
S. S. Hohenstaufen, N. 49° 00′, W. 20° 59′	30.43	772.9				nne.			3		6		ne.	0	0	mod.	ne.	fair.
S. S. Hermann, N. 40° 47′, W. 64° 02′	30.15	765.8	72	22.2	80	ene.			2		5		ene.	0	0	mod	ene.	fair.
S. S. Ohio, N. 37° 57′, W. 65° 01′	30.14	765.5				e.			2		3		e.	3 h'r	3 h'r	cross	ene.	clear.
S. S. Salier, N. 40° 41′, W. 67° 45′*	30.13	765.3	55	12.8	62	ene.			2		10		e.	0	0	sm'h	ese.	cloudy.
S. S. Werra, N. 48° 30′, W. 21° 27′	30.46	773.7	61	16.1		se.			3		2		ese.	0	0	sm'h	se.	clear.
S. S. City of Augusta, N. 33° 50′, W. 77° 58′ †	30.20	767.1				ene.			3		6			0	0	sm'h		fair.
S. S. Colon, N. 19° 00′, W. 74° 26′ †	30.03	762.7	72	22.2	?	se.			2		3		ese.	0	0	sm'h		clear.
S. S. Muriel, Martinique, W. I	30.11	764.8	80	26.7		ene.			4		10		ene.	light	light	sm'h		rainy.
S. S. Orinoco, N. 32° 40′ W. 64° 50′			79	26.1		w.			2		5			0	0	mod.	ne.	fair.
S. S. Belgenland, N. 45° 45′, W. 31° 40′†	30.44	773.2	59	15.0	100	ene.			7		10		e.	0	0	h'vy	e.	covered.
S. S. Nederland, N. 42° 50′, W. 43° 17′			64	17.8		ne.			5		10		ne.	8 h'r	8 h'r	mod.	ne.	rainy.
S. S. Rhynland, N. 50° 40′, W. 3° 00′	29.97	761.2	55	12.8	74	nw.			5		4		wnw.	0	0			fair.
S. S. Pennland, Antwerp, Belgium	29.99	761.7	53	11.7	86	sw.			6		4		sw.	2 h'r	2 h'r			squally.
S. S. Switzerland, N. 40° 27′ W. 70° 12′†	30.19	766.8				ese.			1		10		ese.	0	0	sm'h		dense fog.
S. S. Waesland, Jersey City, N. J	30.14	765.5	55	18.3		se.			4		10		se.	0	0			cloudy.
S. S. P. Caland, N. 40° 53′, W. 55° 40′	30.09	764.3	65.5	18.6	92	ene.			6		10		e.			6	ene.	cloudy.
S. S. Schiedam, N. 44° 42′, W. 42° 18′	30.07	763.8	68	20.0	95	e.			4		9		se.	8 h'r	8 h'r	mod.	e.	raining.
S. S. W. A. Scholten, N. 50° 28′, W. 1° 48′	29.98	761.5	56.0	13.3	69	wnw.			4		6		wnw.	2 h'r	2 h'r	3	wnw.	fair.
S. S. Belize, Kingston, Jamaica, W.I *†	30.14	765.5	82	27.8		calm			0		2			0	0	sm'h		clear.
S. S. Caracas, N. 31° 28′, W. 70° 30′†	30.13	765.3	80	26.7	87	wsw.			4				n.	½ h'r	½ h'r	mod.	wsw.	rainy.
S. S. Valencia, N. 23° 07′, W. 68° 50′†	30.30	769.6	81.5	27.5	76	sse.			3		3		sse.	0	0	mod.	sse.	clear.
S. S. State of Nevada, N. 41° 31′, W. 60° 30′ †	30.19	766.8	62	16.7		ne.			5		10		ne.	0	0	mod.	ene.	dense mist.
S. S. State of Nebraska, N. 55° 21′, W. 80° 30′*†	29.97	761.2	52	11.1		nw.			4		3			shr's	shr's	sm'h		clear.
S. S. Thingvalla, New York, N. Y †	30.25	768.3	67.1	19.5		se.			2		3		se.	0	0			clear.
S. S. Toledo, N. 36° 22′, E. 13° 50′ *†	30.06	763.5	72	22.2		ese.			1		0			0	0			clear.
S. S. Dominion, N. 47° 35′, W. 59° 25′ *†	30.30	769.6	50	10.0		wsw.			1		2		wsw.			sm'h	w.	clear.
S. S. Oregon, N. 55° 08′, W. 21° 29′	30.28	769.1	54	12.2		w.			3		9		w.			mod.	wnw.	cloudy.
S. S. Lake Huron, N. 49° 14′, W. 66° 20′	29.99	761.7	57	13.9		sw.			2		10		w.	light	light	sm'h		overcast.
S S. Lake Manitoban, N. 55° 10′, W. 14° 10′	30.19	766.8	53	11.7		nw.			4		9		n.	1 h'r	1 h'r	sm'h		showery.
S. S. Daniel Steinmann, N. 48° 37′, W. 68° 18′†	29.95	760.7	57	13.9		wsw.			3		9			0	0			hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Planlyn, N. 41° 50′, W. 55° 12′	30.06	763.5							4		4		ssw.	1 h'r	1 h'r	sm'h	sw.	fair.
S. S. Aries, N. 40° 00′, W. 73° 50′ *†	30.05	763.3				sse.			4		10			1 h'r	1 h'r	long	se.	overcast.
S. S. Norman, N. 41° 00′, W. 71° 34′	30.05	763.3				ssw.			1		10		ssw.	0	0	sm'h		cloudy.
S. S. Saxon, Philadelphia, Pa †	30.04	763.0				se.			3		10							light rain.
S. S. Britannic, N. 42° 42′, W. 52° 48′ †	30.17	766.3	51	10.6		ene.			5		10		ene.	0	0	mod.	e.	misty.
S. S. Celtic, New York, N. Y. †	30.12	765.0	62	16.7		sw.			2		10		s.	0	0			overcast.
S. S. Iowa, N. 42° 52′, W. 50° 39′ †	30.13	765.3	47	8.3		ne.			3		10		ne.	5 h'r	5 h'r	mod.	ne.	dense fog.
S. S. Antonio Lopez, Cadiz, Spain	30.14	765.5	68.5	20.3	67	w.			3		1			0	0			clear.
Schr. Abbie H. Gheen, New York, N. Y. †	30.25	768.3	68	20 0		s.			3									cloudy.
Bk. Aquidneck, N. 23° 37′, W. 38° 11′ *†	30.10	764.5				nw.			1–5		0			0	0	light	nw.	clear.
Schr. Anna A. Holton, N. 29° 27′, W. 70° 01′ *†	30.14	765.5	81	27.2		wsw.			5		1		sw.	0	0	mod.	ssw.	clear.
Schr. Arthur Burton, Boston, Mass †	30.15	765.8				s.			1		0			0	0			fine.
Bk. Aureola, N. 42° 20′, W. 35° 20′ †	29.95	760.7	72	22.2		e.			8		10		e.	8 h'r	8 h'r	h'vy	e.	drizzling.
Bk. Arda, Sackville, N. B †	30.15	765.8				se.			2		3		sse.	0	0			clear.
Bk. Alba, N. 40° 00′, W. 70° 05′ *†	30.19	766.8	56.3	13.5		calm			0				wsw.	0	0		ese.	
Bg. Belle of the Bay, N. 28° 22′, W. 88° 30′ †	30.06	763.5				ese.			5		8		se.	10 minutes		r'gh	se.	squally.
Bk. Bayonaise, N. 37° 14′, W. 15° 50′			62.6	17		e.			4		6		e.			sm'h	e.	fine.
Schr. C. R. Flint, Tampico Bar, Mexico †	29.96	761.0	81	27.2		w.			1		2		sse.	0	0	long	se.	fair.
Bk. Cato, N. 67° 16′, E. 11° 27′ *†	29.80	756.9				n.			4		3		n.			sm'h	nnw	clear.
S. Criterion, N. 40° 13′, W. 62° 00′ *†	30.02	762.5				e.			3		3		ese.	0	0			clear.
Schr. Clotilde, Tuspan Bar, Mexico *†	29.90	759.4	85	29.4		wnw.			1		0			1 h'r	1 h'r	sm'h	e.	clear.
S. David Stewart, N. 2° 53′, W. 26° 35′ †	29.84	757.9				se.			3		2		ese.	0	0	mod.	se.	clear.
S. S. D. J. Foley, N. 38° 15′, W. 75° 00′ *†	30.10	764.5	68	20.0	90	sse.			3		5		ne.	0	0	long	ese.	fair.
Bkt. David A. Preston, N. 27° 40′, W. 76° 40′						calm			0		2			0	0	mod.	se.	
S. E. J. Spicer, N. 43° 00′, W. 55° 55′	30.13	765.3	55	12.8	93	e.			5		10		e.	rain	rain	mod.	e.	misty.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′ *†	29.80	756.9	57	13.9		nnw.			5					0	0	short	nw.	clear.
U. S. Fish Com. S. S. Fish Hawk, New Pt. Comfort, Va.	30.10	764.5	72	22.2	85	sw.			3		4		s.	0	0			clear.
S. Festina Lente, Magdeleine river, Canada	30.00	762.0	55	12.8		sw.			4		10		sw.			sm'h		light rain.
Sch. F. E. Waters, N. 30° 43′, W. 75° 33′ *†	30.25	768.3				ne.			1				ne.	0	0	sm'h	ne.	fair.
Bgt. George, N. 26° 24′, W. 62° 45′ *†	30.15	765.8	78	25.6		w.			1		0			0	0	mod.	sse.	clear.
Bk. Galeon, N. 24° 43′, W. 80° 40′ †	30.10	764.5	81	27.2		ese.			3		0			½ h'r	½ h'r	sm'h	e.	misty.
Bk. Heinrich & Tonio, N. 41° 58′, W. 43° 55′ †	29.93	760.2	66	18.9		ene.			5		10		ne.	20 h'r	20 h'r	mod.	ene.	raining.
S. Hedwig, N. 37° 01′, E. 17° 04′	30.00	762.0	80.1	26.7	76	s.			1		2		nw.	0	0	2	nne.	
Bk. Hattie G. McFarland, N. 33° 45′, W. 75° 48′ †	30.17	766.3	76	24.4		nnw.			2		3		nw.	0	0	sm'h	ne.	fine.
Bk Harriet S. Jackson, near Cape Cod, Mass						s.			2		6		s.	0	0	large	ese.	fair.
Bk. Horace Scudder N. 13° 10′, W. 56° 04′ *†	30.12	765.0	82	27.8		ene.			5		3		e.	2 h'r	2 h'r	light	e.	fine.
Schr. Isabel Alberto, N. 32° 18′, W. 79° 19′ †	30.22	767.6				calm			0		0			0	0	light	e.	clear.
Bk. Johanne, N. 44° 45′, W. 40° 30′ *†	30.10	764.5	64	17.8		e.			4		10		se; e.	15 h'r	15 h'r	mod.	e.	rainy.
Schr. John L. Thomas, N. 14° 24′, W. 82° 08′ *†	29.98	761.5				ene.			5		4		ese.	½ h'r	½ h'r	mod.	ese.	fair.
Bg. John Wesley, N. 21° 24′, W. 30° 01′ *†	30.00	762.0	78	25.6		s.			1		2			0	0	cross	ese.	clear.
Schr. Jennie N. Huddell, Charleston, S. C. †	30.16	766.1	78	25.6		calm			0		0			0	0			clear.
S. J. W. Gildemeister, N. 29° 11′, W. 38° 08′	29.99	761.7	73.4	23	83	sw.			3	1 c	0	sw.		0	0	2	w.	blue sky
Bkt. Kryolith, Ivigtut, Greenland *†	30.20	767.1				s.			5		8		s.	rain	rain			cloudy.
Bg. L. & W. Armstrong, N. 25° 44′, W. 59° 36′ *†	30.16	766.1				nw.			3		1		nnw.	0	0	sm'h	se.	clear.
Light-house Tender Laurel, Key West, Fla †	30.04	763.0	84	28.9		e.			2–3		5		ene.	1 h'r	1 h'r			fair.
Bk. Louise Adelaide, N. 28° 10′, W. 79° 45′ †	30.00	763.5	81	27.2		ese.			1		5		ese.	0	0	sm'h	nne.	fair.
Bk. Milo, N. 45° 52′, W. 58° 16′ †	30.20	767.1				e.			1–2							sm'h		clear.
S. S. Madrid, N. 36° 42′, W. 42° 09′ †	29.89	759.2	70	21.1	90	nne.			2		2		nnw.	0	0	sm'h	ne.	fair.
Schr. Minnie A. Bonsall, Haverstraw, N. Y †	30.12	765.0	73	22.8		s.			2				w.	0	0			cloudy.
Bgt. Myrtle, N. 18° 32′, W. 76° 10′						e.			5				e.	0	0			fair.
Schr. Maggie Abbott, N. 26° 20′, W. 74° 10′ †	30.14	765.5				ene.			2		2		e.	0	0	mod.	e.	clear.
Bk. National Eagle, N. 41° 10′, W. 27° 19′						se.			6		8		ese.	rain	rain	mod.	sse.	drizzling.
Bg. O. C. Clary, N. 25° 28′, W. 59° 33′ *†	30.15	765.8				nnw.			3		5		nne.			sm'h	n.	fair.
Bk. Ottawa, N. 56° 19′, E. 7° 43′	29.68	753.9	54	12.2		ssw.			8		5		ssw.	1 h'r	1 h'r	r'gh	sw.	fair.
S. Paramita, N. 24° 26′, W. 36° 35′ †	30.05	763.3	81	27.2		var.			1		1		w.	0	0	sharp	nnw	clear
S. S. Raleigh, Perth Amboy, N. J. †	30.04	763.0	65	18.3		se.			1		9		se.	0	0			
S. Rudolph, N. 48° 05′, W. 20° 45′			58.9	14.9		n.			3		2		calm	0	0	mod.	nne.	clear.
Bg. Rising Sun, Barbadoes, W. I. †	30.09	764.3	86	30.0		e.								0	0			
Bk. Rosino, N. 40° 04′, W. 19° 10′			67	19.4		ese.			5		10		se.	0	0	r'gh	ne.	cloudy
Bk. Sunbeam, N. 40° 40′, W. 34° 49′ †	29.90	759.4	66	18.9	89	e.			6		10		e.	6 h'r	6 h'r	r'gh	e.	cloudy.
S. Sovereign of the Seas, N. 26° 53′, W. 38° 55′			75	23.9	90	sw.			1		3		sw.	2 h'r	2 h'r	sm'h	nw.	fine.
Bg. Teneriffe, N. 40° 01′, W. 73° 02′ *	30.04	763.0				baff			1		10		e.	0	0	sm'h		
Bk. Tuck Sing, N. 21° 04′, W. 82° 10′ *†	29.98	761.5				ene.			3		0			0	0	light	ese	fine.
Schr. Viola Reppard, Bath, Me †	30.08	764.0	66	18.9		s.			2		10		s.	0	0			cloudy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I *†	30.04	763.0	80	26.7		sse.			3		5		se.	0	0			fair.
Bgt. Sunlight, N. 29° 09′, W. 60° 12′						nw.			3		6		nw.	½ hr	½ h'r	mod.	nw.	fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay †	30.03	762.7	55.2	12.9	98	se.			6		10					4	se.	drizzling.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.92	760.0	59	15.0		nw.			3–6		7							drizzling.
H. M. S. Sylvia, Buenos Ayres, La Plata	30.03	762.7	49.2	9.6	99	se.			3		10							overcast.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.99	761.7	55	12.8	93	ese.	13	5.8			10		ese.	0	0	mod.	sse.	cloudy.
U. S. S Galena, Montevideo, Uruguay *	29.98	761.5	56	13.3	94	ese.			4		10					mod.	se.	cloudy.
S. Annie M Law, S. 36° 55′, E. 19° 36′ *†	29.60	751.8	62	16.7		wsw.			6		10		wsw.	2 h'r	2 h'r	high	var.	
S. Wm. McGilvery, S. 38° 08′, W. 54° 33′ *†	30.15	765.8	49	9.4	93	sse.			4		4		sse.	0	0	mod.	sw.	fair.
S. S. Olbers, Rio de Janeiro, Brazil †	30.12	765.0	78	25.6	73	calm			0					0	0	sm'h		fine.
Bk. Achille F, S. 30° 30′, W. 43° 30′ †	30.17	766.3	71	21.7	95	nnw.			4		6		nw.	0	0	long	ene.	fair.
Bk. Alpheus Marshall, S. 11° 25′, W. 15° 30′ *†	30.00	762.0				ese.			5		5		se.	1 h'r	1 h'r			fair.
Bk. Ceylon, S. 15° 54′, W. 5° 43′ *†	30.26	768.6	76	24.4	82	se.			5		2		se.	light	light	r'gh	se.	squally.
Bk. Gray Eagle, S. 24° 07′, W. 40° 20′ *†	30.50	774.7				ene.			6		3		ne.	0	0	h'vy	ne.	clear.
H. P. M. S. Duque de Terceira, Benguela	30.03	762.7	73.8	23.2	73	w.			2		4			0	0	2		d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.72	754.9	75	23.9	81	se.			1		2	se.						d. clouds
H. M. S. Champion, Sandakan, Borneo Island	29.80	756.9	85	29.4	92	ene.			1		6							d. clouds.
H. M. S. Espiegle, N. 7° 09′, E. 171° 19′	29.90	759.4	81	27.2	83	ene.			1		3							d. clouds.
H. M. S. Flying Fish, N. 37° 07′, E. 125° 38′	29.78	756.4	71	21.7	92	w.			2		5	w.				1	w.	d. clouds.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.85	758.2	84.3	29.1	77	ne.			2		5	ne.						d. clouds.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.93	760.2	73	22.8	85	wsw.			1		3							d. clouds.
H. P. M. S. Tamega, Macao, China	29.87	758.7	83.3	28.5	83	se.			4		9			10 h'r	10 h'r			raining.
U. S. Naval Hospital, Yokonama, Japan	30.00	762.0	69.5	20.8	92	ssw.			2		10		w.	0	0			hazy.
U. S. S. Adams, Sitka, Alaska †	30.11	764.8	44	6.7	92	calm			0		0							clear.
H. M. S. Essex, N. 20° 55′, W. 155° 02′	30.03	762.7	78	25.6	78	ese.			4		2		e.			sm'h		clear.
U. S. S. Hartford, Honolulu Sandwich Ids *	29.97	761.2	74	23.3	95	calm			0		8			0	0			cloudy.
U. S. S. Monocacy, Salee river, Corea	29.78	756.4	73	22.8	81	w.			1		5		w.					hazy.
U. S. S. Palos, Hong Kong, China	29.75	755.6	82	27.8	83	se.			1		8		nw.					cloudy.
U. S. S. Richmond, Shanghia, China *	29.69	754.1	78	25.6	91	e.			2				e.	0	0			clear.
S. S. Arabic, N. 38° 45′, W. 124° 19′			55	12.8	93	nnw.			5		10		nw.	0	0	mod.	wnw.	hazy.
S. S. Coptic, N. 29° 19′, E. 129° 58	29.94	760.5	78.0	25.6	86	sse.			3		7		sse.	10 h'r	10 h'r	sli't	s.	fair.
S. S. Oceanic, N. 45° 00′, E. 170° 45′	30.02	762.5	46	7.8	92	w.			3		10		sw.			sm'h	e.	misty.
S. S. Oregon, N. 46° 09′, W. 124° 07′ †	30.12	765.0	56	13.3	87	nw.			2		0					light	wnw.	clear.
S. S. Willamette, Seattle, Wash. Ter †	30.12	765.0	54	12.2	93	n.			1		0			0	0			hazy.
S. S. Ancon, N. 33° 52′, W. 118° 43′ †	29.96	761.0	61	16.1	88	se.			3		10					mod.	wsw.	foggy.
S. S. City of Chester, Point Reyes, Cal †	29.95	760.7	53	11.7	93	se.			2		0					light	nw.	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Dakota, N. 43° 47′, W. 124° 51′ †	30.03	762.7	56	13.3	94	nw.			6		8		nw.			long	nw.	cloudy.
S. S. Queen of the Pacific, Columbia river Oregon †	30.08	764.0	52	11.1		nw.			4		10			0	0			cloudy.
S. S. City of New York, N. 22° 23′, W. 155° 28′ †	30.08	764.0	75	23.9	86	se.			4		2		se.	0	0	sm'h		clear.
S. S. City of Pekin, N. 40° 48′, W. 132° 57′ †	30.24	768.1	55	12.8	74	nne.			4		10		nnw.			mod.	nne.	cloudy.
S. S. City of Rio de Janeiro, Hong Kong, China †	29.91	759.7	80	26.7	87	se.			1		8		s.			sm'h		showery.
S. S. Colima, N. 11° 57′, W. 87° 48 †	29.90	759.4	79	26.1	86	e.			4		9		ene.	0.75	19.0	small	e.	raining.
S. S. Granada, N. 34° 35′, W. 112° 14′ †	29.91	759.7	66	18.9	84	wnw.			4		1		ne.	0	0	mod.	wnw.	clear.
S. S. San Blas, N. 11° 40′, W. 87° 40′			83	28.3		ene.			2		1		nne.	0	0	sm'h	s.	clear.
S. S. San José, N. 31° 48′, W. 118° 47′ †	30.02	762.5	60	15.6		s.			2		ks		ssw.	0	0	long	wnw.	gloomy.
S. S. Benledi, N. 31° —′, E. 122° 30′ *	29.77	756.1	76.5	24.7	77	s.			2-3		7		ssw.	0	0	mod.	se.	foggy.
S. S. Radnorshire, Nagasaki, Japan * †	29.86	758.4				s.			3		10		ssw.	3 h'r	3 h'r	light	sw.	dense fog.
S. Sacramento, N. 9° 30′, E. 123° 40′ * †	29.92	760.0	84	28.9	71	nne.			2		5		nne.	3 h'r	3 h'r	sm'h		fair.
S. St. David, N. 21° 55′ E. 124° 15′ * †	29.94	760.5	85	29.4	87	se.			3		5		se.	3 h'r	3 h'r	light	se.	hazy.
Bk. Xenia, Shanghai, China			85	29.4		e.			3		0			0	0			clear.
H. M. S. Sappho, N. 22° 58′, W. 110° 19′	29.87	758.7	71	21.7	95	wnw.			4		3	nw.				5	nw.	d. clouds.
U. S. S. Ranger, San Jose, Guatemala	29.93	760.2	77	25.0	95	ne.			2		10			0.27	6.9	mod.	sse.	overcast.
S. Henry Failing, Wilmington, Cal †	29.80	756.9	62	16.7		e.			2		fg.		nw.	0	0	sm'h	wnw.	foggy.
S. Grecian, Yokohama, Japan †	29.92	760.0	73	22.8	95	s.			1		3		s.	0	0			clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			60	15.6	71	calm			0		0							blue sky.
H. M. S. Kingfisher, S. 39° 40′, W. 110° 58′	29.94	760.5	59	15.0		nnw.			6		10					7	nnw.	overcast.
H. M. S. Nelson, Souva, Feejee Ids, Oceania	29.70	754.4	70	21.1	100	calm			0									blue sky.
U. S. S. Iroquois, Valparaiso, Chili	30.09	764.3	54	12.2	87	ne.			2		10							rainy.
U. S. S. Lackawanna, S. 14° 58′, W. 81° 58′ *	29.99	761.7	67	19.4	64	se.			6		8		se.			mod.	se.	cloudy.
U. S. S. Onward, Callao Peru †	30.10	764.5	64	17.8	83	se.			3		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.93	760.2	64	17.8	94	sse.	8	3.6			10		sse.	light	light			misty.
U. S. S. Wachusetts, S. 15° 16′, W. 144° 36′	29.99	761.7	79	26.1	91	ene.			2		5		calm			sm'h		fair.
S. S. Australia, Sydney, N. S. W	30.13	765.3	54	12.2	93	nw.			2		8		ne.	0	0			cloudy.
H. M. S. Lark, S. 7° 25′, E. 55° 33′	29.89	759.2	80.3	26.8	89	e.			3		8					sm'h		showery.
S. S. City of Sydney, S. 34° 19′, E. 170° 00′ * †	30.37	771.4	59	15.0	70	ene.			1		2 k		ene.			sm'h		clear.
S. Parker M. Whitmore, S. 31° 38′, W. 109° 40′ * †	30.23	767.8	67	19.4		n.			6		8		nw.	0	0	cross	var.	cloudy.
S. Storm King, S. 26° 31′, W. 91° 27′ * †	30.28	769.1				s.			5		2		s.	0	0	long	s.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.00	762.0	80	26.7		sse.			2		1	sse.				1	sse.	clear.
U. S. S. Enterprise, S. 20° 22′ E. 43° 49′ *	30.04	763.0	79	26.1	74	ne.			1		2		calm			sm'h		clear.
U. S. S. Juniata, Colombo, Ceylon, India	29.78	756.4	82	27.8	100	wsw.			1		2		sw.	h'vy	h'vy			clear.
S. S. Malabar, N. 14° 17′, E. 89° 31′ * †	29.70	754.4				sw.			7		10		sw.	0	0	hv'y	sw.	cloudy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 18, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.1	78.4	25.8	81	e.			1		0			0	0	clear	Malaterre.
Algiers			30.00	762.1	70.5	21.4	74	n.			3		4			0.067	1.7	cloudy	Thève.
La Galle			29.89	759.3															Fonfréde.
Tunis			29.89	759.2															Jacques.
Saida			30.04	763.0															Pérès.
Tebessa			29.94	760.5	82.4	28.0	33	n.			4		3			0	0	pretty fair	St. Martin.
Geriville					77.0	25.0	19	ne.			2		1			0	0	very fair	Forfert.
Laghouat			29.95	760.7	88.9	31.6	16	nw.			5		0			0	0	clear	Abraham.
Biskra			29.97	761.1	91.4	33.0	34	nw.			3		2			0	0	fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.11	764.8	53.3	11.8	70	ne.	12	5.4		6 cs				0.008	0.2	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.99	761.7	30.09	764.3	50.7	10.4	87	n.	16	7.2			3			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.21	741.8	29.73	755.2	72.3	22.4	70	se.			3		7			1.169	29.7	thund'rst'm	Prof. Ivan Stozir.
Oracow, I. R Observatory	29.06	738.0	29.80	756.9	67.3	19.6	65		6.3	2.8			10					raining	Dr. Wierzbiski
Eperies	28.93	734.8	29.76	755.9	77.0	25.0	61	calm			0		8 s			inap.	inap.		Julius Mikolik.
Gratz	28.60	726.4	29.81	757.1	65.3	18.5	87	se.			3		10			0	0		Andreas Rospini.
Hermannstadt	28.41	721.5	29.74	755.4	79.9	26.6	45	nw.			2		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.58	725.8	29.91	759.6	55.0	12.8	88	nnw.			1		10			1.130	28.7		The Staff.
Lemberg	28.84	732.5	29.78	756.5	71.6	22.0	69	ne.			2		7			0.016	0.4		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.70	754.3	29.80	757.0	77.5	25.3	96	se.			4		10			0.031	0.8	lightning	I. R.Hydrographic Office.
Szathmar	29.30	744.2	29.74	755.4	77.0	25.0	75	sw.			3		4			0.177	4.5		Joseph Midlinszky, S. J.
Szegedin	29.50	749.4	29.78	756.3	66.2	19.0	85	s.			1		6			0.012	0.3	lightning	Karl Stancel.
Trieste	29.70	754.3	29.80	756.8	62.2	16.8	85	e.			1		10			0.606	15.4		Royal Academy.
Vienna	29.17	740.9	29.87	758.8	60.4	15.8	72	wnw.			3		7			0.094	2.4	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.82	757.4	29.92	760.0	50.5	10.3	59	nw.	13	5.8			7			0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.78	756.4	30.02	762.5	54.1	12.3	77	nw.	6	2.7			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.96	761.0	54.0	12.2	61	wnw.	14	6.3			9					overcast	John Hartnup.
Bolton, Sharples	29.40	746.7	29.93	760.2	53.5	11.9	65	wnw.	6	2.7			8					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.53	750.0	29.93	760.2	56.6	13.7	60	n.			2		8			0.05	1.3	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	83.0	28.3	75	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.85	758.2	29.95	760.7	61.0	16.1	63	nw.			0.6		8					overcast	John McLaren.
Chatham, School M. E.	29.82	757.4	29.95	760.7	60.0	15.6	56	n.			1		10			blank	blank	misty	Corpl. G. A. Pickles.
Falmouth, Observatory	29.80	756.9	30.03	762.7	56.5	13.6	84	nw.			4		9					d. clouds	The Staff.
Fort Napier, Natal	27.64	702.0	29.86	758.4	75.0	23.9	54	e.			2							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	86.0	30.0	76	nw.			1		4					d. clouds	J. W. Smith.
Galway, Queen's College	30.02	762.5	30.06	763.5	60	15.6	76	nw.			3		5			0.04	1.0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.03	762.7	30.09	764.3	70.0	21.1	90	w.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.74	755.4	29.94	760.5	56.2	13.4	46	w.			2		8					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.76	755.9	29.93	760.2	63.0	17.2	51	nnw.			1		5					d. clouds	The Staff.
Guernsey	29.72	754.9	30.01	762.2	59.0	15.0	88	w.			2		9					squally	A. Collenette, F. M. S.
Kew, Observatory	29.91	759.7	29.94	760.5	62.6	17.0	46	nw.	5	2.2			6					d. clouds	The Staff.
Leicester, Museum	29.66	753.4	29.92	760.0	59.5	15.3	55	nw.			1		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.80	756.9	29.88	758.9	79.0	26.1	76	se.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.10	764.5	30.15	765.8	85.0	29.4	60	e.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.42	747.3	29.94	760.5	55.4	13.0	62	nw.			1		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.71	754.6	29.94	760.5	59.0	15.0	59	w.			3		9					overcast	The Staff.
Plymouth	29.91	759.7	29.99	761.7	59.5	15.3	88	wnw.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.81	757.2	29.91	759.7	49	9.4	85						10					raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.73	755.1	29.79	756.7	81.4	27.4	63	ne.			1		1					blue sky	W. H. Lyne.
Sheffield	29.67	753.6	29.94	760.5	59.9	15.5	72	nw.			1		6			0.06	1.5	d. clouds	Rev. F. Redford, M. A.
Silloth Rectory	29.90	759.4	29.93	760.2	62.8	17.1	52	w.			1		4			0	0	d. clouds	W. C. Carlisle.
Stonyhurst, Observatory																			W. Newcombe.
Truro, Royal Institution	30.00	762.0	30.08	764.0	62	16.7	77	nw.			7		6					d. clouds	The Met'g'l Office.
Valencia, Observatory	30.16	766.1	30.18	766.6	55.9	13.3	76	nw.	24	10.7			7			blank	blank	squally	
Sub-series.																			
Goso, Episcopal Seminary	29.40	746.7	29.80	756.9	79.9	26.6	75	s.	9.3	4.2						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B					55.0	12.8		calm	0	0		1 c	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.14	765.5	30.18	766.6	61	16.1	77	sw.	6	2.7			10 n		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.09	764.3	30.15	765.8	57	13.9	83	w.	4	1.8		0	0			0.03	0.8	clear	G. A. Blair.
Cornwall, Ontario	29.67	753.6	29.88	758.9	66.7	19.3	90	e.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B																			H. A. Johnson.
Father Point, Quebec*	30.03	762.7	30.05	763.3	55	12.8	90	ne.	15	6.7		0	2 s		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.89	733.8	29.70	754.4	60	15.6	93	nw.	2	0.9			10 ks			0.07	1.8	fair	James Stewart.
Fredericton, N. B	30.12	765.0	30.19	766.8	55.0	12.8	84	e.	6	2.7		0	2 s			inap.	inap.	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	28.74	730.0	29.80	756.9	66.0	18.9	100	s.	5	2.2			10 n			1.60	40.6	raining	Jas. Grant.
Halifax, N. S*	30.08	764.0	30.21	767.3	58	14.4	70	se.	4	1.8		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.40	746.7	29.79	756.7	61.7	16.5	96	e.			2	10 cs	0	e.		0.75	19.0	raining	Geo. Dickson, B. A.
Kingston, Ontario*	29.58	751.3	29.91	759.7	64	17.8	93	sw.	4	1.8			10 n			0.02	0.5	light rain	A. P. Knight, M. A.
Little Glace Bay, N. S	30.15	765.8	30.19	766.8	60.0	15.6	76	sw.			2	8	0	sw.		0	0	d. clouds	C. H. Rigby.
London, Ontario	28.99	736.3	29.86	758.4	66.2	19.0	98	s.					10 n			1.01	25.7	overcast	E. B. Reed.
Montreal, Quebec*	29.75	755.6	29.95	760.7	67	19.4	84	s.	14	6.3		0	5 ks			0.11	2.8	fair	C. H. McLeod, C. E.
Ottawa, Ontario	29.66	753.4	29.90	759.4	66.1	18.9	90	e.			1		10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.11	739.4	29.78	756.4	67	19.4	93	se.	12	5.4			10 n		sw.	inap.	inap.	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.13	739.9	29.84	757.9	68.7	20.4	94	s.			1		10 ks			0.040	1.0	raining	J. Dixon, B. A.
Port Dover, Ontario	29.17	740.9	29.84	757.9	64	17.8	100	calm	0	0			10 n		sw.	0.38	9.7	light rain	H Morgan.
Port Stanley, Ontario	29.20	741.7	29.82	757.4	65	18.3	93	e.	7	3.1			10 n		sw.	0.37	9.4	cloudy	M. Payne.
Quebec, Quebec*	29.68	753.9	30.03	762.7	64	17.8	93	n.	4	1.8		8 ck	0			0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.39	746.5	29.83	757.7	67	19.4	87	se.	3	1.3			10 ks		s.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.09	764.3	30.14	765.5	53	11.7	80	se.	4	1.8			fg.			0	0	foggy	
St. John, N. B	30.00	762.0	30.17	766.3	51.0	10.6	100	sw.	4	1.8			fg.			0	0	foggy	G. Murdock, C. E.
Saint John's, N. F	30.04	763.0	30.29	769.4	52	11.1	86	se.			1		10 n			0	0	overcast	J. Higgins.
St. Pierre, N. F			30.16	766.1	53.6	12.0		calm			0					0	0		The Commandant.
Saugeen, Ontario*	29.07	738.4	29.75	755.6	67	19.4	96	s.	10	4.5			10 s			0.12	3.0	heavy rain	
Stratford, Ontario	28.55	725.2	29.78	756.4	65.8	18.8	97	sw.	3	1.3			10 s			1.820	46.2	raining	G. J. Macgregor, M A.
Sydney, C. B*	30.15	765.8	30.21	767.3	55	12.8	83	sw.	6	2.7		2 ck	2 ks		calm	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.47	748.5	29.84	757.9	61	16.1	100	calm	0	0			fg.			1.46	37.1	light rain	Magnetic Observatory.
Windsor, N. S	30.07	763.8	30.16	766.1	57.5	14.2	84	se.	5	2.2		1 c	0			0	0	blue sky	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.82	732.0	29.84	757.9	67.2	19.6	97	s.	13	5.8			10 s			0.60	15.2	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.10	764.5	30.17	766.3	60	15.6	78	e.	1	0.4		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	30.17	766.3	30.20	767.1	60.0	15.6	76	wsw.	22.4	10.0		0	1 s			0.080	2.0	hazy	John Du'ble
Springbok Fontein	28.01	711.4			61	16.1	55	se.											J. T. Eustace,
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.61	752.0	29.72	754.8	80.2	26.8	41	calm			0		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.72	754.8	29.74	755.4	81.0	27.2	90	ese.	3.4	1.5		0	4 ck		w.	0	0	cloudy	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.84	757.9	29.89	759.1	62.2	16.8	61	sw.	16	7			8						Oversergent Fischer.
Fanoe	29.87	758.6	29.89	759.1	56.1	13.4	65	w.			6		5						Overloerer Lauridsen.
Godthaab, Greenland	29.96	761.0	30.00	762.1	38.3	3.5	97	s.			2		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.85	758.2	29.90	759.4	37.8	3.2		calm			0		7					foggy	
Stykkisholm, Iceland	29.82	757.3	29.86	758.4	50.9	10.5	80	nw.			2		8						A. O. Thorlacius.
Thorshavn	29.85	758.3	29.88	758.9	50.0	10.0	75	e.	9	4			9						Overloerer Bergh.
Vestervig	29.71	754.5	29.80	756.8	53.4	11.9	86	sw.			7		10						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.68	753.9			93.6	34.2		n.	5.8	2.6		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.57	751.1	30.22	767.6	62.2	16.8	94	wnw.			1		n		w.	0.043	1.1		M. Labroue, Director.
Alençon, Normal School	29.52	749.7	30.07	763.7	60.4	15.8	83	ne.			1		kn		sw.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.86	758.5	29.94	760.5	61.2	16.2	58	nnw.			2		10			0	0	covered	M. Girand, Director.
Bar-sur-Seine	29.45	747.9	30.00	761.9	61.2	16.2	47	n.			2	0	5 kn		wnw.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.74	755.3	30.00	761.9	63.3	17.4	43	w.			2		8		wnw.	0.043	1.1	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.98	736.2	29.95	760.8	58.1	14.5	86	nnw.			1		10 cn		sse.	0.535	13.6	raining	M. Gobin, Director.
Bordeaux, Observatory	29.88	758.9	30.14	765.5	63.5	17.5	35	nw.			1		5		wnw.	0.031	0.8	cloudy	M. Rayet, Director.
Bourges, Normal School	29.48	748.7	30.02	762.4	64.4	18	48	nw.			2		k		nw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.86	758.4	30.10	764.6	59.7	15.4	85	nw.			1		10		nw.	0.012	0.3	raining	M. de Kermarée, Dir.
Caen, Normal School	29.88	758.9	29.95	760.7	57.2	14	78	sw.			2		10		sw.	1.10	28.	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.67	753.5	29.98	761.5	64.2	17.9	58	sw.			4		5		w.	0.059	1.5	cloudy	M. Judot, Director.
Charleville, Normal School	29.46	748.3	29.97	761.3	64.8	18.2	46	n.			2		5			0	0	½ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.68	728.5	30.04	762.9	54.5	12.5	57	w.			3	0	8 k			0.189	4.8	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.13	740.0	29.97	761.2	63.5	17.5	37	ne.			2		2	ne.	ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.15	740.3	29.99	761.8	59.9	15.5	37	w.			1		cn	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.32	693.9	29.83	757.6	56.3	13.5	84	n.			3	0	3 kn			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.72	729.6	29.83	757.7	61.0	16.1	45	nw.			6		5		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.16	740.7	29.93	760.1	52.9	11.6	81	nw.			2		10 kn		nw.			raining	M. Ablard, Director.
Guéret, Normal School	28.48	723.3	30.00	762.1	56.8	13.8	64	sw.			3	0	8 kn		w.	0.480	12.2	very cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.88	759.0	30.15	765.8	62.6	17	72	nw.					n		nw.	0.04	1.		M. Ollitrault, Director.
Lescar, Normal School	29.62	752.3	30.19	766.7	52.7	11.5	84	nw.			3		10			0.236	6.0	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.97	761.3	30.08	763.9	60.1	15.6	73	w.			2		10		sw.	0.067	1.7	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.92	734.5	29.97	761.2	59.4	15.2	58	nnw.			2		5		nnw.	0.071	1.8	cloudy	M. André, Director.
Mans, Normal School	29.73	755.2	29.92	760.0	61.7	16.5	63	w.			1		8		w.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.61	752.2	29.88	759.0	63.7	17.6	44	wnw.			4		2		wnw.	inap.	inap.		M. Stephan, Director.
Montlouis	24.85	631.1	29.69	754.1	47.3	8.5	39	w.	15.0	6.7			6	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.81	757.1	29.93	760.2	65.1	18.4	62	nnw.			4		5		n.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.23	742.4	30.00	762.0	58.6	14.8	61	wsw.			2		ckn		sw.	0.047	1.2		M. Hasse, Director.
Nantes, Observatory	29.95	760.7	30.11	764.8	58.1	14.5	83	sw.			0-1		10 n		wsw.	0.020	0.5	raining	M. Larocque, Director.
Perpignan, Observatory	29.96	760.9	30.04	763.1	66.2	19.0	40	nw.	26.2	11.7			5		nw	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.22	539.0			24.3	— 4.3		nw.			1				nw.	0.228	5.8		M. Vaussenat, Director.
Privas, Normal School	28.89	733.7	29.93	760.3	63.5	17.5	40	n.			3	5 c	0	n.		0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.13	638.4			34.9	1.6	100	nw.			4		10			0.571	14.5	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.08	764.1	30.11	764.9	65.1	18.4	50	wsw.			3		10	sw.	w.	0.79	20.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.87	758.6	30.08	764.0	60.8	16.0	81	wsw.			1		5		se.	0.63	16.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.89	708.5	30.02	762.6	57.6	14.2		nw.			2		5			0.098	2.5	cloudy	M. Seger, Director.
Rouen, Normal School	29.99	761.7	30.04	762.9	61.2	16.2	59	sw.			2		5	w.		0.047	1.2	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.86	758.4	30.02	762.5	59.4	15.2	58	ne.			1		8		nw.	0.094	2.4		M. Renou, Director.
Toulouse, Observatory	29.44	747.8	30.17	766.3	60.4	15.8	66	w.			4		5	nw.		0.047	1.2	cloudy	M. Bailland, Director.
Tours	29.89	759.1	30.06	763.6	63.0	17.2	47	wsw.			2		5		sw.	0	0		M. de Tastes.
Versailles, Observatory	29.52	749.9	30.02	762.4	63.0	17.2	35	w.			2					0.047	1.2		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.06	763.6	30.21	767.4	63.7	17.6	59	nw.	23.7	10.6		0	4 k	w.	w.	0.539	13.7		M. Cartier, Director.
GERMAN.																			
Ansbach	28.52	724.4	29.95	760.8	57.6	14.2	65	calm			0		8			0.028	0.7		Prof. Jnedt.
Bamberg	29.06	738.2	29.90	759.5	64.8	18.2	52	nw.			2	0	6 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.81	757.2	29.95	760.8	59.4	15.2	68	sw.			2		10			0	0		Dr. Sensch.
Breslau	29.42	747.3	29.95	760.7	56.5	13.6	72	n.			2		10			0.008	0.2	light fog	Royal University Obs'y
Carlsruhe	29.49	749.0	29.94	760.4	65.7	18.7	42	sw.			1		10	sw.		0	0		Albert Senz.
Cassel	29.22	742.2	29.93	760.3	63.3	17.4	43	s.			2		8	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.92	760.0	65.3	18.5	46	nw.			1		5			0.106	2.7		Physical Society.
Friedrichshafen	28.55	725.1	29.97	761.2	55.4	13.0	76	ne.			3		10	ene.		0.311	7.9	showery	Wilhelm, Chief Tel.
Hamburg	29.83	757.7	29.92	760.0	61.7	16.5	63	nnw.			3		8			0	0		E. Preller.
Kiel	29.90	759.4	29.91	759.8	60.4	15.8	48	nw.			2		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.55	750.5	29.97	761.1	58.8	14.9	66	nne.			1		10			0.130	3.3	sprinkling	H. Leppig, Asst.
Magdeburg	29.75	755.7	29.94	760.5	61.9	16.6	64	se.			1		10	w.		0	0		Weather Observatory
Memel	29.87	758.8	29.92	760.0	58.8	14.9	84	nw.			2		10 s					light rain	Issermann.
Munich	28.13	714.5	29.99	761.7	53.8	12.1	74	nw.			2		10	nw.		0.484	12.3		Central Station.
Neufahrwasser	29.93	760.3	29.95	760.7	61.3	16.3	66	n.			2		7			0	0		A. Lothes.
Neustadt, Palatinate	29.43	747.5	29.95	760.8	63.9	17.7	48	nw.			1		7	w.		0	0		Dicknether.
Stuttgart	28.99	736.3	29.87	758.6	61.7	16.5	51	ne.			1		9	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.93	760.3	29.96	761.0	59.5	15.3	62	ese.			2		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.45	748.1	29.82	757.4	86.4	30.2		se.			3.0		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.46	748.2	29.51	749.5	89.1	31.7	65	w.	34.0	15.2			5		w.	0	0	d. clouds	
Deesa	29.00	736.5	29.45	748.0	99.0	37.2	31	sw.	23.0	10.3			5	sw.	sw.	0	0	d. clouds	
Bombay	29.63	752.5	29.67	753.5	80.9	27.2	91	wsw.	11.0	4.9			10		w.	1.58	40.1	overcast	
Poona, Yarrowda	27.82	706.8	29.67	753.6	78.5	25.8	70	w.	30.0	13.4			9		sw.	0	0	d. clouds	
Trichinopoly	29.37	746.1	29.64	752.9	97.3	36.3	34	nw.	1.0	0.4			8	nne.	ne.	0	0	d. clouds	
Belgaum	27.17	690.2	29.71	754.6	73.3	22.9	81	wsw.	13.0	5.8			10	w.	s.	0.03	0.8	d. clouds	
Lahore	28.61	726.7	29.30	744.3	106.3	41.3	17	w.	2.0	0.9			2			0	0	d. clouds	
Roorkee	28.43	722.0	29.27	743.5	102.9	39.4	20	w.	6.0	2.7			0			0	0	misty	
Agra	28.82	732.0	29.35	745.5	104.1	40.1	25	w.	8.0	3.6			8		w.	0	0	d. clouds	
Nagpur	28.52	724.3	29.54	750.4	82.7	28.2	73	ssw.	17.0	7.6			9		sw.	0.47	11.9	gloomy	
Jubbulpore	28.19	716.0	29.52	749.8	84.8	29.3	58	nw.	6.0	2.7			10		nw.	1.49	37.8	overcast	
Lucknow	28.96	735.6	29.32	744.6	105.4	40.8	22	wnw.	6.0	2.7			4			0	0	d. clouds	
Allahabad	29.04	737.5	29.33	745.0	99.7	37.6	43	calm	0	0			9			0	0	misty	
Patna	29.23	742.4	29.41	747.0	83.6	28.7	83	e.	2.3	1.0			10	e.	e.	0	0	overcast	
Hazaribagh	27.47	697.7	29.42	747.4	85.1	29.5	66	nw.	7.5	3.4			10			0.55	14.0	thund'r st'm	
Cuttack	29.44	747.7	29.52	749.7	84.2	29.0	77	w.	3.0	1.3			10		wnw.	0.11	2.8	d. clouds	
Calcutta, Alipore	29.48	748.8	29.50	749.3	83.0	28.3	78	ssw.	9.0	4.0			6	sw.	sw.	0	0	d. clouds	
Dhubri	29.37	740.0	29.49	749.0	79.4	26.3	93	calm	0	0			10			1.88	47.8	overcast	
Chittagong	29.53	750.0	29.62	752.3	76.7	24.8	92	se.	7.1	3.2			10			0	0	overcast	
Sibsagar	29.18	741.1	29.51	749.5	81.2	27.3	90	sw.	2.0	0.9			10	w.	w.	0.08	2.0	d. clouds	
Jeypore	28.03	712.0	29.41	747.0	97.7	36.5	51	wnw.	12.5	5.6			2		w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Zanzibar	29.99	761.6	30.01	762.2	83.9	28.8	59	sse.	8.8	3.9	.....	.....	4	.....	.....	0	0	d. clouds	
Bellary	28.16	715.3	.....	.....	92.0	33.3	37	w.	12	5.4	.....	4 ck	0	.....	.....	0	0	gloomy	
ITALIAN.																			
Udine	29.41	746.9	29.80	757.0	65.5	18.6	82	se.	1.3	0.6	.....	.....	10	.....	.....	0.899	22.8	.....	Prof. Giovanni Clodig.
Milan	29.30	744.2	29.81	757.1	57.4	14.1	82	ne.	6.9	3.1	.....	.....	10	ne.	.....	0.594	15.1	.....	Prof. G. V. Schiapparelli.
Padua	29.66	753.3	29.76	756.0	69.4	20.8	60	se.	3.8	1.7	.....	.....	10	.....	.....	0.331	13.5	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.89	733.8	29.78	756.3	60.8	16.0	92	ne.	3.1	1.4	.....	.....	10	n.	.....	0.618	15.7	.....	Prof. F. F. Denza.
Genoa	29.58	751.3	29.77	756.1	67.1	19.5	52	ne.	7.4	3.3	.....	.....	10	sw.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	27.89	708.3	29.77	756.2	58.3	14.6	70	w.	.....	.....	2	.....	9	.....	.....	1.244	31.6	.....	Prof. D. C. Bruno.
Pesaro	29.74	755.5	29.79	756.7	64.4	18.0	90	sw.	3.8	1.7	.....	.....	10	.....	.....	0.071	1.8	.....	Prof. Luigi Guidi.
Florence	29.55	750.6	29.80	757.0	60.4	15.8	89	sw.	.....	.....	2	.....	10	.....	.....	0.307	7.8	.....	Prof. Costantino Pittei.
Leghorn	29.68	753.9	29.76	756.0	70.5	21.4	42	wsw.	8.1	3.6	.....	.....	10	.....	.....	0.535	13.6	.....	Prof. P. Monte.
Rome	29.63	752.6	29.80	756.9	75.6	24.2	57	s.	17.4	7.8	.....	.....	7	s.	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.58	751.2	29.82	757.3	83.8	28.8	31	se.	9.4	4.2	.....	.....	2	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.96	735.6	29.81	757.1	84.2	29.0	67	sse.	3.1	1.4	.....	.....	2	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.62	752.4	29.81	757.2	73.8	23.2	45	nnw.	.....	.....	4	.....	2	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.58	751.3	29.82	757.5	74.5	23.6	62	ne.	6.3	2.8	.....	.....	6	wsw.	.....	0	0	.....	Prof. G. Caccintore.
Syracuse	29.78	756.4	29.82	757.5	81.5	27.5	64	s.	18.1	8.1	.....	.....	7	wsw.	.....	0	0	.....	Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.33	744.9	29.84	757.8	72.1	22.6	79	sw.	2.5	1.1	.....	.....	4	w.	.....	0	0	.....	Prof. F. Brioschi.
Stelvio	22.02	559.2	.....	.....	33.8	1.0	92	ne.	.....	.....	2	.....	10	.....	.....	0.390	9.9	covered	Prof. P. F. Denza.
Valdobbia	22.03	559.6	.....	.....	45.0	7.8	94	n.	.....	.....	4	.....	10	.....	.....	0.118	3.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.75	755.5	29.78	756.4	72.6	22.6	80	calm	.....	.....	0	4 ck	6 ck	nw.	nw.	0.551	14.0	cloudy	H. Hattori.
Awomori	29.70	754.4	29.74	755.4	69.1	20.6	83	nnw.	1.4	0.6	.....	.....	10 s	.....	.....	0.003	0.1	overcast	K. Ogawa.
Hamamatsu	29.87	758.7	29.90	759.4	72.4	22.4	90	s.	.....	.....	2	5 ck	3 s	s.	s.	0.035	0.9	fair	Y. Sekigawa.
Kanazawa	29.70	754.3	29.79	756.7	73.7	23.2	83	nw.	inap.	inap.	.....	.....	10 cks	.....	n.	0	0	cloudy	S. Endo.
Kagoshima	29.82	757.5	29.84	757.9	76.4	24.7	87	nw.	.....	.....	2	.....	10 s	.....	w.	0.055	1.4	cloudy	G. Miyanohaza.
Kioto	29.66	753.3	29.83	757.7	75.7	24.3	78	sse.	4.0	1.8	.....	.....	10 s	.....	.....	0.063	1.6	cloudy	M. Tojima.
Kochi	29.83	757.6	29.85	758.1	73.9	23.3	95	n.	3.3	1.4	.....	.....	10 s	.....	s.	0.04	1.1	overcast	K. Kusunose.
Miasaka	29.80	756.9	29.83	757.6	76.0	24.4	93	nw.	.....	.....	1	5cs;ck	3ck;s	w.	w.	0.008	0.2	fair	K. Masusaki.
Miyako	29.67	753.6	29.78	756.4	63.4	17.4	80	e.	0.3	0.1	.....	10 ck	0	.....	.....	0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.62	752.3	29.81	757.2	75.3	24.1	91	calm	0	0	.....	.....	10 s	.....	sw.	0.120	3.0	overcast	S. Takehayashi.
Niigata	29.76	755.9	29.80	756.9	74.7	23.7	75	nw.	0.3	0.1	.....	.....	10 ks	.....	w.	0	0	covered	M. Morita.
Nobiru	29.77	756.1	29.78	756.5	67.2	19.6	93	sse.	6.7	2.9	.....	.....	10 s	.....	.....	0	0	covered	H. Midzushima.
Numazu	29.84	757.9	29.88	758.9	71.1	21.7	88	ssw.	.....	.....	6	1c;ck	9ks;s	.....	w.	0	0	cloudy	R. Kaneda.
Osaka	29.81	757.3	29.83	757.7	73.0	22.8	91	w.	11.3	5.0	.....	.....	10 n	.....	.....	0.050	1.3	light rain	H. Omura.
Sakai	29.77	756.1	29.78	756.3	71.4	21.9	97	e.	.....	.....	2	1 c	9 ks	ssw.	wsw.	0.120	3.2	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	29.76	756.0	29.83	757.8	70.6	21.4	85	s.	11.7	5.2	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	29.76	756.0	29.81	757.3	74.6	23.7	83	s.	0.8	0.4	.....	.....	10ck;s	.....	s.	0.012	0.3	cloudy	K. Sakai.
Shimonoseki	29.65	753.1	29.80	756.9	73.9	23.3	84	calm	.....	.....	0	.....	10ck;ks	.....	sw.	0	0	cloudy	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	74.2	23.4	64	ese.	16.0	7.2	.....	0	3 k	.....	ese.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.69	601.7	29.91	759.7	60.6	15.9	71	se.	inap.	inap.	.....	3 cs	0	ne.	.....	0	0	fair	Prof. Vicente Fernandez
Leon	24.32	617.7	29.94	760.5	62.2	16.8	80	nne.	0.9	0.4	.....	5 c	2 k	w.	.....	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.63	752.7	29.89	759.2	75.5	24.2	81	ese.	1.6	0.8	.....	1 cs	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Staff.
Morelia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Tena, M. D.
Pabellon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. P. Spina.
Sub-series.																			
Altata	.....	.....	.....	.....	80	26.7	88	s.	8.0	3.6	.....	0	3 k	.....	s.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.97	761.2	29.97	761.2	62.6	17.0	.....	wsw.	.....	.....	3	.....	.....	.....	.....	0.047	1.2	.....	
Groningen	29.85	758.3	29.91	759.7	59.2	15.1	.....	s.	.....	.....	1	.....	.....	.....	.....	0.024	0.6	.....	
Helder	29.91	759.8	29.91	759.8	58.5	14.7	.....	sw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.95	760.7	29.95	760.7	58.6	14.8	57	wnw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	29.90	759.5	29.95	760.7	64.6	18.1	52	wsw.	.....	.....	3	.....	8	.....	.....	0.051	1.3	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	757.9	.....	.....	80.4	26.9	73	ne.	0.5	0.2	.....	.....	4	.....	.....	0	0	.....	Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.60	751.8	29.66	753.4	54.7	12.6	75	wnw.	7	3	.....	.....	7	.....	.....	0.504	12.8	.....	
Brono	29.62	752.3	29.66	753.3	48.2	9.0	73	n.	.....	.....	0	.....	10	.....	.....	0.283	7.2	.....	
Christiania	29.57	751.1	29.72	754.8	54.7	12.6	90	s.	13	6	.....	.....	10	.....	.....	0.567	14.4	.....	
Gjæsvær	29.58	751.3	29.60	751.9	45.9	7.7	.....	wnw.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	
Lodingen	29.54	750.3	29.59	751.5	48.6	9.2	57	ne.	.....	.....	4	.....	9	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	30.08	764.0	30.24	768.0	63.7	17.6	98	se.	5.6	2.5	.....	.....	9	.....	.....	0.413	10.5	.....	Dr. J. A. Sampaio.
Campo Major	29.18	741.1	30.15	765.9	73.4	23.0	33	nnw.	4.3	1.9	.....	.....	5	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.21	767.4	30.30	769.7	69.8	21.0	66	sw.	4.9	2.2	.....	.....	10	n.	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.82	757.3	30.15	765.7	66.9	19.4	34	ne.	19.9	8.9	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.21	767.3	30.28	769.1	69.8	21.0	85	se.	3.1	1.4	.....	.....	3	.....	.....	0.051	1.3	.....	
Saint Paul de Loando	29.80	756.9	30.00	762.0	73.4	23.0	91	wsw.	.....	.....	2	.....	7	.....	.....	0	0	.....	
San Salvador	28.14	714.8	30.00	762.1	70.3	21.3	79	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Serra da Estrella	25.49	647.5	30.24	768.0	50.7	10.4	52	e.	13.6	6.1	.....	.....	1	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.51	724.2	29.50	749.2	88.2	31.2	22	calm	0	0	.....	2 c	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.74	755.4	29.76	755.9	72.3	22.4	60	nw.	4	2	.....	.....	10	.....	.....	0.098	2.5	light clouds	Capt. Sseliwerstow
Ashurada	29.82	757.5	29.73	755.1	83.1	28.4	68	wsw.	7	3	.....	0	8 k	.....	.....	inap.	inap.	.....	
Astrakhan	29.79	756.6	29.71	754.5	83.1	28.4	43	ssw.	9	4	.....	0	8 ks	.....	.....	0	0	.....	Capt. Wisganow.
Baku	29.78	756.3	29.73	755.1	81.0	27.2	45	n.	18	8	.....	1 cs	0	.....	.....	0	0	.....	
Barnaul	29.24	742.7	29.71	754.6	74.8	23.8	47	ne.	4	2	.....	.....	3	.....	.....	0	0	light clouds	Meteorological Obs'y
Bielosersk	29.44	747.8	29.88	758.9	84.6	29.2	45	s.	7	3	.....	2 cs	0	.....	.....	0	0	.....	
Dorpat	29.57	751.1	29.80	756.9	74.5	23.6	70	n.	7	3	.....	.....	10 k	.....	.....	0.169	4.3	.....	Observatory.
Ekaterinburg	28.84	732.6	29.76	755.9	71.1	21.7	67	calm	0	0	.....	0	7	.....	.....	inap.	inap.	.....	Meteorological Obs'y
Elisawetgrad	29.37	746.1	29.80	750.9	83.1	28.4	38	nw.	4	2	.....	0	3 k	.....	.....	0	0	.....	
Irkutsk	28.19	716.1	29.80	757.0	54.9	12.7	93	n.	.....	.....	5	.....	10	.....	.....	0.417	10.6	.....	
Kasalinsk	29.35	745.5	29.53	750.0	91.4	33.0	18	e.	.....	.....	2	0	0	.....	.....	0	0	.....	
Kasan	29.54	750.4	29.79	756.7	84.6	29.2	32	ene.	4	2	.....	0	2 k	.....	.....	0	0	.....	Observatory.
Kem	29.63	752.5	29.08	753.8	71.8	22.1	60	sw.	18	8	.....	.....	10 ks	.....	.....	0	0	hv'y clouds	
Kertch	29.75	755.7	29.78	756.3	78.8	26.0	39	calm	0	0	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	29.18	741.1	29.78	756.3	78.3	25.7	59	calm	0	0	.....	0	0 ks	.....	.....	0	0	.....	Observatory.
Koslov	29.25	742.9	29.77	756.1	69.6	20.9	76	ne.	18	8	.....	.....	10 km	.....	.....	0.098	2.5	thnd'r str'm	
Liban	29.88	759.0	29.91	759.6	59.7	15.4	70	wnw.	7	3	.....	.....	10	.....	.....	0.165	4.2	.....	E. Quaas.
Lugan	29.46	748.3	29.64	752.8	73.2	22.9	64	ene.	9	4	.....	.....	8	.....	.....	0.299	7.6	.....	Meteorological Obs'y.
Moscow	29.39	746.6	29.84	757.8	81.1	27.3	37	ne.	7.8	3.5	.....	0	7 k	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.76	755.9	29.84	757.8	87.8	31.0	48	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.63	752.5	29.71	754.7	44.1	6.7	83	nw.	4	2	.....	.....	10	.....	.....	0.717	18.2	.....	Iwanow.
Pekin, China	29.49	749.0	29.63	752.6	76.8	24.9	45	calm	0	0	.....	0	4 ks	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.32	744.7	29.61	752.8	97.9	36.6	10	nne.	3.4	1.5	.....	.....	0	.....	.....	0	0	.....	
Petrozavodsk	29.61	752.0	29.79	756.7	80.6	27.0	46	sw.	10	7	.....	0	5 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.28	743.8	29.76	755.8	77.7	25.4	57	ese.	9	4	.....	0	7 n	.....	.....	0	0	.....	
Poti	29.85	758.1	29.88	758.9	79.3	26.3	74	nw.	4	2	.....	0	0	.....	.....	0	0	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
St. Petersburg	29.78	756.4	29.80	757.0	77.7	25.4	57	nw.	7	3	.....	0	7 kn	.....	.....	0.004	0.1	.....	Central Physical Obs'y.
Samarkand	27.26	692 3	29.49	749.0	90.1	32.3	27	calm	0	0	.....	0	0	.....	.....	0	0	.....	Major Lasarew
Semipalatinsk	29.05	737.8	29.65	753.2	85.8	29.9	21	e.	4	2	.....	.....	3	.....	.....	0	0	.....	
Sevastopol	29.61	752.1	29.82	757.5	82.8	28.2	52	nw.	16	7	.....	0	1 ks	.....	.....	0	0	.....	
Staroi Bykhov	29.45	747.9	29.87	758.8	86.9	30.5	34	ese.	9	4	.....	5 ck	0	.....	.....	0	0	light clouds	
Tashkend	27.99	711 0	29.50	749.3	96.8	36.0	29	calm	0	0	.....	0	1 s	.....	.....	0	0	.....	Terch, A. M.
Tiflis	28.37	720.5	29.70	754.3	83.3	28.5	43	n.	4	2	.....	0	8 ks	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.14	689.4	29.46	748.2	83.8	28.8	51	e.	2	1	.....	3 ck	0	.....	.....	0	0	.....	
Viatka	29.28	743.7	29.88	758.9	78.8	26.0	44	calm	0	0	.....	.....	2	.....	.....	0	0	.....	
Warsaw	29.45	748.1	29.87	758.7	57.4	14.1	90	n.	7	3	.....	.....	10 n	.....	.....	0	0	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.62	752.4	29.90	759.5	63.1	17.3	40	w.	7	3	.....	.....	3	.....	.....	0	0	.....	M. O. Marks.
SCOTTISH.																			
Monach Lt	.....	.....	29.98	761.5	52	11.1	93	nw.	.....	.....	4	5	5	nw.	.....	0	0	d. clouds	J. Youngclauss
North Unst	.....	.....	29.83	757.7	.....	.....	.....	n	.....	.....	3	3	2	ne.	.....	.....	.....	.....	Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760 7	30.06	763.4	68.0	20.0	60	s.	3.4	1.5	.....	0	1	.....	.....	0.449	11.4	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.15	765.8	30.21	767.3	63.9	17.7	69	nw.	3.8	1.7	.....	2	6	se.	.....	0.547	13.9	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.28	692.8	30.25	768.3	56.1	13.4	52	n.	9.4	4.2	.....	0	5	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.97	710.4	30.17	766.3	66.0	18.9	32	ne.	15.4	6.9	.....	0	2	.....	.....	0	0	.....	The Staff.
Murcia, Met. Obs'y	29.94	760.5	30.08	764.1	73.4	23.0	62	e.	5.4	2.4	.....	2	6	w.	.....	0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.53	750.0	30.29	769.3	54.5	12.5	96	e.	13.9	6.2	.....	10 n	4 n	w.	e.	0.075	1.9	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.40	746.8	30.30	769.5	61.3	16.3	62	n.	9.8	4.4	.....	.....	9	.....	.....	0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	762.0	30.07	763.7	79.0	26.1	80	e.	2.2	1.0	.....	c; cs	0	calm	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.7	29.89	759.2	77.0	25.0	92	ne.	0	0	.....	7 c	2 ks	.....	.....	0.079	2.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.7	30.16	766.2	73.0	22.8	57	w.	11.2	5.0	.....	2	2	w.	w.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.94	760.4	30.03	762.7	80.6	27.0	91	calm	0	0	.....	4 cs	6kn	s.	s.	0.087	2.2	cloudy	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.57	751.1	29.61	752.1	55.4	13.0	66	sw.	.....	.....	6	.....	0	.....	.....	0	0	.....	
Umea	29.63	752.5	29.68	753.8	66.8	16.0	52	sw.	.....	.....	8	.....	1	.....	.....	0	0	.....	
Hernosand	29.63	752.6	29.68	753.9	60.8	16.0	61	s.	.....	.....	7	.....	4	.....	.....	0	0	.....	
Stockholm	29.68	753.9	29.86	758.4	65.1	18.4	47	s.	.....	.....	2	.....	8	.....	.....	0	0	.....	
Wisby	29.81	757.2	29.87	758.7	64.0	17.8	55	wnw.	.....	.....	2	.....	5	.....	.....	0.012	0.3	.....	
Sub-series.																			
Upsala	29.73	755.2	29.82	757.4	65.5	18.6	45	sw	12.8	5.7	.....	.....	8	.....	sw.	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.53	724.6	29.95	760.7	55.8	13.2	80	nnw.	.....	.....	2	.....	9	.....	.....	0.020	0.5	covered	The Observatory.
TURKISH.																			
Constantinople	.....	.....	29.84	757.9	78.8	26.0	57	ne.	12	5.5	.....	.....	2	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	29.99	761.7	79.7	26.5	.....	sw.	.....	.....	3	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.78	756.5	84.7	29.3	61	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.70	678.2	.....	.....	76	24.4	54	.....	.....	.....	.....	.....	.....	.....	.....	0	0	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.98	761.5	30.06	763.5	67.8	19.9	72	s.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.05	737.9	29.70	754.4	59	15.0	100	se.	19	8.5	.....	.....	10 n	.....	.....	0.27	6.9	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	29.88	758.9	42	5.6	48	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assiniboine, Ft., Montana	27.28	692.9	30.07	763.8	48	8.9	80	s.	4	1.8	.....	2 k	0	w.	.....	inap.	inap.	clear	B. O. Lenoir.
Atlanta, Georgia	28.98	736.1	30.13	765.3	78.5	25.8	69	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.05	763.3	30.06	763.5	65	18.3	90	se.	6	2.7	.....	10 ck	0	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.13	765.3	77.0	25.0	84	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	29.99	761.7	30.04	763.0	70	21.1	85	e.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	30.06	763.5	30.08	764.0	66.0	18.9	87	se.	6	2.7	.....	.....	10 k	.....	.....	inap.	inap.	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.55	750.6	29.57	751.1	39.5	4.2	89	w.	16	7.2	.....	.....	10 n	.....	.....	0.05	1.3	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.35	720.1	29.89	759 2	62.5	16.9	87	nw.	8	3.6	.....	5 ck	2 s	nw.	nw.	1.05	26.7	fair	A. Pritchard.
Benton, Fort, Montana	27.28	692.9	30.06	763.5	49	9.4	80	calm	0	0	.....	0	5 s	.....	.....	0.50	12.7	fair	S. Wheaton.
Billings, Montana	26.79	680.5	29.93	760.2	50	10.0	74	w.	3	1.3	.....	0	3 s	.....	w.	0.38	9.7	clear	T. Gibson.
Bismarck, Dakota	28.13	714.5	29.89	759.2	57	13.9	93	nw.	16	8.0	.....	5 k	0	w.	.....	1.35	34.3	fair	Cyrus Cramer.
Block Island, Rhode Island	30.09	764.3	30.12	765.0	63	17.2	90	se.	2	0.9	.....	5 cs	0	.....	.....	0	0	fair	J. T. Elker.
Boise City, Idaho	27.21	691.1	29.99	761.7	53	11.7	.....	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Keneally.
Boston, Massachusetts	29.97	761.2	30.12	765.0	60.0	15.6	87	se.	5	2.2	.....	2c;ck	3 s	.....	.....	0.03	0.8	fair	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	83.0	28.3	80	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Buffalo, New York	29.13	739.9	29.87	758 7	68.4	20.2	96	s.	6	2.7	.....	.....	10 s	.....	sw.	0.76	19.3	cloudy	W. Finn.
Buford, Fort, Dakota	28.06	712.7	30.02	762.5	53	11.7	86	w.	13	5.8	.....	4ck	0	w.	.....	inap.	inap.	fair	A. Schneider.
Burlington, Vermont	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. N. Farnell.
Cairo, Illinois	29.58	751.3	29.97	761.2	80.9	27.2	79	sw.	14	6.3	.....	1 c	0	w.	.....	0	0	clear	W. H. Ray.
Cape Henry, Virginia	30.03	762.7	30.05	763.3	75.0	23.9	90	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.02	762.5	30.05	763.3	68.0	20.0	87	se.	11	4.9	.....	0	7 s	.....	se.	0	0	fair	W. E. Smith.
Cape Mendocino, California	29.26	743.2	29.94	760 5	48	8.9	100	nw.	.....	.....	2	.....	fg.	.....	nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	79	26.1	88	ne.	5	2.2	.....	0	1 k	.....	e.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.04	763.0	30.09	764.3	78.0	25.6	88	sw.	7	3.1	.....	0	hz.	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.24	742.7	30.07	763.8	77.0	25.0	74	sw.	4	1.8	.....	0	sk.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.10	764.5	76.0	24.4	82	sw.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	29.92	760.0	51.1	10.6	64	nw.	6	2.7	.....	3 c	0	nw.	.....	0	0	clear	E. McGovern.
Chicago, Illinois	28.95	736.1	29.67	753.6	74.5	23.6	80	sw.	13	5.8	.....	.....	10 ks	.....	sw.	1.19	30.2	cloudy	John Laurens.
Chincoteague, Virginia	30.03	762.7	30.05	763.3	70	21.1	78	se.	6	2.7	.....	3 c	4 ks	.....	.....	0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.20	743.2	29.92	760.0	80.0	26.7	69	s.	7	3.1	.....	2ck;cs	0	sw.	.....	0.13	3.3	clear	L. Dunne.
Cleveland, Ohio	29.12	739.6	29.85	758.2	74.6	23.7	76	s.	9	4.0	.....	5ck;cs	0	w.	.....	0.03	0.8	fair	J. B. Newlin.
Coleman City, Texas	28.21	716.5	29.96	761.0	73	22.8	76	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. J. Kenan.
Columbus, Ohio	29.05	737.9	29.89	759.2	74	23.3	84	s.	7	3.1	.....	3 cs	0	sw.	.....	0.19	4.8	clear	D. Outhbertson.
Concho, Fort, Texas	28.07	713.0	29.94	760.5	74.5	23.6	82	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Davenport, Iowa	29.06	738.1	29.70	754.4	71	21.7	84	w.	9	4.0	.....	0	9 ks	.....	w.	0.32	8.1	cloudy	R. R. Martin.
Davis, Fort, Texas	25.23	640.8	29.84	757.9	69	20.6	55	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.28	718.3	30.02	762.5	55	12.8	69	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	D. Moore.
Deadwood, Dakota	25.48	647.2	29.92	760.0	55	12.8	67	calm	0	0	.....	3 cs	0	ne.	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del.	30.05	763.3	30.07	763.8	64	17.8	93	se.	13	5.8	.....	.....	10 k	.....	se.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.86	631.4	29.90	759.4	56.0	13.3	67	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.91	734.3	29.79	756.7	64	17.8	90	n.	8	3.6	.....	2 k	5 ks	nw.	nw.	2.20	55.9	fair	F. W. Conrad.
Detroit, Michigan	29.08	738.6	29.77	756.1	73.0	22.8	84	s.	8	3.6	.....	.....	10 s	.....	.....	0.61	15.5	cloudy	E. R. Brace.
Dodge City, Kansas	27.44	697.0	29.95	760.7	63	17.2	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Dubuque, Iowa	28.96	736.1	29.67	753.6	65	18.3	90	w.	5	2.2	.....	.....	10 s	.....	nw.	1.23	31.2	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.96	735.6	29.69	754.1	55	12.8	93	calm	0	0	.....	.....	10 s	.....	.....	0.46	11.7	cloudy	N. B. Conger.
Eagle Pass, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. Belford.
Eagle Rock, Idaho	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. R. Boynton.
Eastport, Maine	30.10	764.5	30.17	766.3	50.0	10.0	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	D. O. Murphy.
Elliott, Fort, Texas	27.25	692.1	29.92	760.0	64	17.8	58	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Gundall.
El Paso, Texas	26.26	667.5	29.87	758.7	68.0	20.0	17	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.15	740.4	29.87	758.7	73	22.8	84	s.	12	5.4	.....	3 cs	5 s	w.	sw.	0.26	6.6	clearing	C. A. Shaw.
Escanaba, Michigan	28.84	732.5	29.49	749.0	57.0	13.9	93	se.	10	4.5	.....	.....	10 s	.....	se.	1.51	38.4	cloudy	George Heathcote.
Galveston, Texas	29.99	761.7	30.03	762.7	82	27.8	82	se.	2	0.9	.....	.....	10 ks	.....	s	0.09	2.3	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.00	736.6	29.65	753.1	66.0	18.9	87	s.	24	10.7	.....	.....	10 s	.....	sw.	1.20	30.5	cloudy	J. E. Mueller.
Grant, Fort, Arizona	25.30	642.6	29.84	757.9	66.9	19.4	44	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	Robert O. Lord.
Hatteras, North Carolina	30.02	762.5	30.04	763.0	76	24.4	85	nw.	4	1.8	.....	0	0	.....	.....	0.10	2.5	clear	R. M. Crawford.
Helena, Montana	25.88	657.3	30.00	762.0	50	10.0	74	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.52	724.4	29.86	758.4	54.9	12.7	89	w.	5	2.2		1 cs	0	w.		2.10	53.3	clear	S. W. Glenn.
Indianapolis, Indiana	29.04	737.6	29.82	757.4	78.4	25.8	74	sw.	8	3.6		0	6 k		sw.	0.52	13.2	fair	C. F. R. Wappenhans.
Indianola, Texas	29.95	760.7	29.98	761.5	79.2	26.2	90	s.	5	2.2		0	2 ks			0	0	clear	I. A. Reed.
Jacksonville Florida	30.09	764.3	30.13	765.3	81.5	27.5	82	e.	5	2.2		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.12	739.6	29.76	755.9	75.0	23.9	71	sw.	14	6.3		0	0			0.09	2.3	clear	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	84.0	28.9	67	e.	6	2.7		0	4 ks		e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	72.5	22.5	94	n.	2	0.9		0	7ks;fg		n.	0	0	fair	H. Mc P. Baldwin
Knoxville, Tennessee	29.08	738.6	30.09	764.3	73.7	23.2	84	sw.	2	0.9		2 k	0	sw.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	28.85	732.8	29.61	752.1	65	18.3	78	w.	9	4.0			10 s		w.	0.79	20.1	cloudy	S. C. Emery.
Leavenworth, Kansas	29.04	737.6	29.91	759.7	68	20.0	73	nw.	8	3.6		0	0			1.56	39.6	clear	A. W. Browne.
Lewiston, Idaho	29.18	741.2	30.00	762.0	54.0	12.2	64	calm	0	0		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.67	753.6	29.98	761.5	78	25.6	90	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	63	17.2	90	ne.	2	0.9			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.36	745.7	29.91	759.7	82.5	28.1	69	s.	10	4.5		8 k	0	sw.		0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.33	745.0	30.00	762.0	76.8	24.9	67	sw.	1	0.4		3 c	0	w.		inap.	inap.	clear	Lou's Duane.
Mackinaw City, Michigan	28.95	735.3	29.59	751.6	54.0	12.2	96	e.	10	4.5			10s;fg		se.	0.35	8.9	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.06	763.5	30.07	763.8	75.0	23.9	76	nw.	4	1.8		4 cs	0	w.		0.17	4.3	fair	William Daly.
Maginnis, Fort, Montana	25.71	653.0	30.04	763.0	53	11.7	44	w.	8	3.6		0	0			0.03	0.8	clear	F. Burke.
Marquette, Michigan	28.80	731.5	29.52	749.8	49	9.4	100	n.	5	2.2			10 s			0.57	14.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.66	753.4	30.00	762.0	79	26.1	88	sw.	8	3.6			10 s		sw.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	28.86	733.0	29.60	751.8	70	21.1	90	sw.	26	11.6		0	9 s		w.	0.33	8.4	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.07	763.8	30.11	764.8	81.2	27.3	85	sw.	1	0.4		0	1 ks			0.02	0.5	clear	C. A. Read.
Montgomery, Alabama	29.83	757.7	30.06	763.5	79	26.1	81	s.	1	0.4		2 ck	0	w.		0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.83	732.3	29.80	756.9	61.2	16.2	78	w.	5	2.2		0	0			inap.	inap.	clear	H. White.
Mt. Washington, N. H.	23.99	609.3	30.11	764.8	54.6	12.6	79	e	5	2.2		4 c	0	w.		0.04	1.0	fair	S. W. Beall.
Nashville, Tennessee	29.44	747.8	30.00	762.0	81.0	27.2	74	sw.	7	3.1		3 ck	0	w.		0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.99	761.7	30.10	764.5	64	17.8	78	se.	5	2.2		2 c	6 ks		se.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.08	764.0	30.13	765.3	64	17.8	68	se.	2	0.9			10 s		se.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	79.5	26.4	88	se.	4	1.8		0	1 k		se.	0.10	2.5	clear	M. Herman.
New York, New York	29.93	760.2	30.10	764.5	65	18.3	84	se.	5	2.2		3 cs	5k; s	sw.	se.	0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	30.02	762.5	30.04	763.0	75.0	23.9	85	nw.	3	1.3		5 cs	fg.	nw.		0	0	fair	Wm. Davis.
North Platte, Nebraska	27.10	688.3	29.90	759.4	57.6	14.2	86	w.	4	1.8		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.01	762.2	30.05	763.3	46.0	7.8	68	n.	2	0.9		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.75	730.2	29.89	759.2	64.3	17.9	84	nw.	2	0.9			10 s		n.	inap.	inap.	cloudy	A. Pollak.
Ooglaamie, Alaska	30.16	766.1	30.18	766.6	28.2	— 2.1	100	nne.	8	3.6			fg.			0	0	dense fog	P. H. Ray.
Oswego, New York	29.59	751.6	29.91	759.7	69.5	20.8	87	s.	6	2.7			10 n		sw.	0.08	2.0	light rain	J. G. Linsley.
Palestine, Texas	29.52	749.8	30.06	763.5	77.0	25.0	90	sw.	7	3.1			9 s		sw.	0	0	cloudy	J. W. Byram.
Pensacola, Florida	30.08	764.0	30.11	764.8	80.4	26.9	82	s.	2	0.9		0	2 k		s.	0	0	clear	M. McGauran.
Philadelphia, Pa	29.99	761.7	30.09	764.3	67.5	19.7	93	e.	2	0.9			10s;fg		e.	0.06	1.5	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.07	459.0	29.89	759.2	28	— 2.2	77	n.	22	9.8		0	0			0	0	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.16	740.7	29.95	760.7	71.5	21.9	81	s.	5	2.2			10 s		w.	0.03	0.8	cloudy	W. A. Reid.
Poplar River, Montana	27.92	709.2	30.02	762.5				n.			4	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.07	738.4	29.74	755.4	72.5	22.5	74	s.	9	4.0			10 n		s.	1.05	26.7	thund'r st'm	M. H. Perry
Portland, Maine	30.08	764.0	30.13	765.3	60	15.6	81	se.	1	0.4		5 k	4 s	se.	se.	0.02	0.5	cloudy	W. W. Eichelberger
Portland, Oregon	29.95	760.7	30.02	762.5	50.6	10.3	73	calm	0	0		0	sk.			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					73	22.8	84	w.	4	1.8		0	hz.			0.24	6.1	clear	F. P. Chaffee.
Prescott, Arizona	24 80	629.9	29.82	757.4	48.0	8.9	42	sw.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.10	764.5	30.13	765.3	64	17.8	84	se.	7	3.1		1 c	fg.	nw.	se.	0.03	0.8	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.54	750.3	29.89	759.2	66	18.9	68	nw.	4	1.8		3 c	0	n.		inap.	inap.	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.47	748.5	30.02	762.5	51.5	10.8	78	calm	c	0		0	sk			0	0	clear	J. J. Nanry.
Sacramento, California	29.82	757.4	29.89	759.2	60.0	15.6	75	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.27	743.4	29.86	758.4	76.3	24.6	82	sw.	12	5.4		0	9 k		sw.	0.27	6.9	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.03	762.7	30.07	763.8	46	7.8	93	n.	3	1.3		0	9 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	28.86	733.0	29.70	754.4	62.0	16.7	87	n.	15	6.7			10 s		n.	1.76	44.7	cloudy	P. F Lyons.
St. Vincent, Minnesota	28.89	733.8	29.74	755.4	59	15.0	93	se.	1	0.4		0	3 k		sw.	inap.	inap.	clear	C. B. Dilley
Salt Lake City, Utah	25.71	653.0	29.93	760.2	65	18.3	42	se.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.87	758.7	29.94	760.5	63.4	17.4	84	n.	3	1.3			10 s			0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	30.06	763.5	30.09	764.3	65.0	18.3	90	se.	13	5.8		8 k	0	se.		0	0	cloudy	B. A. Blundon.
Sanford, Florida	30.05	763.3			81.5	27.5	85	calm	0	0		0	fg.			0.02	0.5	clear	J. B. Marbury.
San Francisco, California	29.91	759.7	29.98	761.5	54.5	12.5	93	w.	5	2.2			fg.		w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	82	27.8	74	sw.	5	2.2		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26 46	672.1	30.04	763.0	46	7.8	93	nw.	5	2.2		0	0			0.36	9.1	clear	A. L. Mathews.
Shreveport, Louisiana	29.77	756.1	30.00	762.0	79.4	26.3	87	s.	3	1.3		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.77	730.7	29.97	761.2	74	23.3	71	s.	4	1.8		3 k	0	s.		0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.73	755.1	29.79	756.7	46.1	7.8	77	w.	3	1.3		10 c	0	w.		0.04	1.0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.52	749.8	29.98	761.5	76.0	24.4	85	calm	0	0		3 ck	0	s.		0	0	clear	J. B. Campbell.
Smithville North Carolina	30.03	762.7	30.07	763.8	78	25.6	74	w.	13	5.8		7 c	0			0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.02	711.7	30.06	763.5	55.8	13.2	69	sw.	1	0.4		3 c	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.12	739.6	29.79	756.7	75.5	24.2	83	sw.	11	4.9		0	0			0.86	21.8	clear	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	26.97	685.0	29.89	759.2	74	23.3	73	s.	11	4.9		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.19	690.6	29.82	757.4	53	11.7	50	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.10	739.1	29.78	756.4	74	23.3	82	s.	12	5.4		4 cs	3 s	w.	w.	0.46	11.7	fair	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	30.04	763.0	30.06	763.5	44	6.7	83	calm	0	0			10 ks			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					58	14.4	17	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.83	757.7	30.08	764.0	76.5	24.7	94	s.	6	2.7			10 s		s.	inap.	inap.	cloudy	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.92	760.0	30.03	762.7	72.9	22.7	92	e.	5	2.2			10 k		se.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.12	663.4	29.89	759.2	59	15.0	67	e.	3	1.3		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	30.01	762.2	30.06	763.5	76.0	24.4	76	w.	7	3.1		1 c;hz	0			0.39	9.9	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.64	727.4	29.92	760.0	63	17.2	73	nw.	14	6.3		0	0			0.01	0.3	clear	J. H. Atfield.
Yuma, Arizona	29.66	753.4	29.80	756.9	73.0	22.8	67	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.01	762.2	79	26.1	80	calm	0	0		10 cs	0			0.05	1.3	cloudy	Robert Johnston.
Paramaribo, S. A.	30.08	764.0	30.09	764.3	77	25.0	86	ese.			2	4 c	5 k	e.		0.220	5.6	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.44	747.8	30.00	762.0	74	23.3	94	calm			0		10 ks		calm	1.72	43.7	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					76	24.4	92	s.			1	c	2 ks		ne.	0.33	8.4	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	30.13	765.3	30.19	766.8	49.5	9.7	96	w.	12	5.4		1 c?	0	w.		0	0	fair?	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 45° 39′ E. 13° 45′	29.83	757.7	67	19.4	84	ene.			1		10	ene.				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.89	759.2	75	23.9	86	nne.			3		8	nne.						d. clouds.
H. M. S. Gannet, N. 32° 37′, W. 16° 55′	30.28	769.1	70.5	21.4	70	e.			3-5		4							misty.
H. M. S. Himalaya, N. 37° 41′, E. 5° 57′	29.96	761.0	71	21.7	75	nw.			3		1					4	ssw.	blue sky.
H. M. S. Minotaur, Arosa Bay, Spain	30.34	770.6	62	16.7	61	nne.			1		8					1	wnw.	d. clouds.
H. M. S. Opal, Sierra Leone, Africa	30.02	762.5	84	28.9	79	wsw.			1		5	wsw.						d. clouds.
H. M. S. Superb, N. 43° 43′, E. 15° 53′*	29.86	758.4	75	23.9	72	sse.			4		3	ese.				3	nnw.	d. clouds.
H. M. S. Tenedos, St. Pierie, N. F.	30.19	766.8	55	12.8	93	wnw.			1		1	w.						misty.
U. S. Navy Yard, Portsmouth, N. H.*	30.07	763.8	65	18.3	84	se.	6	2.7			0			0.15	3.8			hazy.
U. S. S. Constellation, off Thomas Point, Maryland*	30.05	763.3	71	21.7	90	se.			4		2		calm			mod.	se.	clear.
U. S. S. Lancaster, Kronstadt, Russia	29.94	757.9	73	22.8	81	nw.			3		2		calm			sm'h		fair.
U. S. S. Nipsic, N. 39° 07′, W. 62° 24′*	30.10	764.5	70	21.1	75	e.			2		2		e.			sm'h		fair.
U. S. S. Portsmouth, off Conimicut, R. I.	30.16	766.1	62	16.7	100	sse.			2		5		s.					fair.
U. S. S. Powhatan, Port Royal, S. C.	30.08	764.0	82	27.8	91	s.			1		5							fair.
U. S. S. Quinnebaug, Gaboon river, Guinea	30.00	762.0	80	26.7	78	wsw.			2		2		sw.			sm'h		clear.
U. S. S. Saratoga, N. 41° 18′, W. 71° 30′	30.13	765.3	61	16.1	94	e.			1		8		e.	0	0	sm'h		fair.
U. S. S. Vandalia, N. 19° 52′, W 73° 42′	30.03	762.7	80	26.7	91	e.			3		2					sm'h		fair.
U. S. S. Yantic, N. 43° 37′, W. 59° 32′	30.20	767.1	51	10.6	93	ene.			2		10					long		foggy.
Cottica, N. 11° 52′, W. 56° 49′	30.08	764.0	81.5	27.5	73	ne.			5		3							d. clouds.
May Hulse, N. 5° 54′, W. 25° 41′	30.03	762.7	78.5	25.8	82	ese.			1		8							d. clouds
H. P. M. S. Rio Lima, N. 17° 48′, W. 20° 10′	30.05	763.2	73.4	23.0	83	ne.			3		0					3	ne.	blue sky.
S. S. British Crown, N. 47° 30′, W. 37° 38′ †	30.38	771.6	62	16.7		ese.			5		8		ese.	0	0	mod.	ese	hazy
S. S. British Prince, N. 40° 32′, W. 50° 49′*	29.95	760.7	68	20.0		ene.			6		8		ne.	4 h'r	4 h'r	r'gh	e.	cloudy.
S. S. Illinois, N. 50° 00′, W. 20° 55′	30.58	776.7	58	14.4		n.			4		2		n.			sm'h	n.	fine.
S. S. Lord Clive, N. 39° 07′, W. 67° 04′ †	29.86	758.4				ene.			2		2		ene.	0	0	sm'h		fine.
S. S. Ohio, Liverpool, Eng †	29.92	760.0	54	12.2		nw.			4		9		se.	0	0			cloudy.
S. S. Pennsylvania, Philadelphia, Pa †	30.08	764.0	70	21.1		sse.			3		8			0	0			cloudy.
S. S. British Princess, N. 41° 36′, W. 60° 40′†	29.84	757.9	62	16.7		ese.			3		0			0	0	sm'h	e.	clear.
S. S. Scandinavian, N. 42° 20′, W. 68° 44′	30.13	765.3	56	13.3		ese.			2		0					sm'h		blue sky.
S. S. Grecian, Quebec, Canada	30.00	762.0	77	25.0	91	ene.			1		0			0	0			clear.
S. S. Nova Scotian, N. 38° 20′, W. 71° 51′	30.15	765.8	65	18.3		e.			3		0					sm'h		clear.
S. S. Polynesian, N 54° 06′, W. 26° 45′	30.56	776.2	54	12.2		w.			4		7		nw.	0	0	sm'h	nw.	fair.
S. S. Prussian, N. 52° 54′, W. 22° 15′	30.41	772.4	56	13.3		wnw.			4		6		w.	0	0	mod.	wnw.	
S. S. Manitoban, N. 52° 46′, W. 19° 52′	30.41	772.4	54	12.2	80	n.			5		4?		n.	6 h'r	6 h'r	mod.	n.	cloudy?
S. S. Alvo, Mayagues, Porto Rica, W. I.*	30.03	762.7	79	26.1		sw.			4		6		sw.	2 h'r	2 h'r			cloudy.
S. S. Alene, N. 11° 28′ W. 79° 04′ †	29.92	760.0				nne.			4		2		ene.	0	0	mod.	ne.	fine.
S. S. Anchoria, N. 52° 42′, W. 30° 18′†	30.56	776.2				sw.			1		7		sw.	0	0	sm'h		cloudy.
S. S. Dorian, N 45° 43′, W. 80 44′	30.38	771.6	59	15.0		nw.			5		10		nnw.	0	0	mod.	nnw.	cloudy.
S. S. Devonia, N. 52° 31′, W. 26° 20′*†	30.64	778.2	54	12.2		n.			2		9		nne.	0	0			cloudy.
S. S. Furnesia, N. 48° 00′, W. 33° 20′ †	30.31	769.9	63	17.2	94	se.			2		10		se.	0	0	sli't	s.	cloudy.
S. S. Carroll, Halifax, N. S *†	30.33	770.4	59	15.0	88	s.			2		8		s.	0	0			fine.
S. S. Landaff City, Bristol, Eng †	29.87	758.7	57	13.9		nw.			4		4		w.	sh'rs	sh'rs			fair.
S. S. Marathon, N. 51° 06′, W. 5° 51′	30.06	763.5	57	13.9		nnw.			3		6		nnw.	5 h'r	5 h'r	mod.	n.	cloudy.
S. S. Colina, N. 51° 23′, W. 36° 43′†	30.38	772.0				ese.			2		3		se.	0	0	mod.	ese.	clear.
S. S. Canada, N. 49° 18′, W. 15° 10′	30.39	771.9	62.6	17		nnw.			5	ck	0	nw.		0	0	r'gh	nw.	covered.
S. S. Arizona, N. 50° 54′, W. 18° 26′	30.31	769.9	55	12.8		nnw.			4		5		nw.	0	0	mod.	nw.	fair
S. S. Wisconsin, N. 40° 56′, W. 68° 04′	30.06	763.5	59	15.0		calm			0		1		se.	0	0	sm'h		fair.
S. S. Wyoming, N. 47° 00′, W. 35° 08′	30.35	770.9	60	15.6		e.			6		8		e.	3 h'r	3 h'r	r'gh	e.	misty.
S. S. Bohemia, N. 48° 42′, W. 18° 50′	30.04	763.0				se.			3-4		3		se.	0	0	mod.	se.	fair.
S. S. Frisia, N. 48° 56′ W. 21° 01′	30.54	775.7				wnw.			3		3?		nw.	0	0	sm'h		cloudy?
S. S. Gellert, New York, N. Y	30.09	764.3	66	18.9	79	se.			1		10		se.	0	0			covered.
S. S. Rugia, N. 42° 54′, W. 46° 33′	29.95	760.7	71	21.7		ese.			4		5		se.	16 h'r	16 h'r	long	se.	fair.
S. S. Silesia, Hamburg, Germany	29.94	760.5	56.5	13.6		sw.			3		6		sw.	0	0			fair.
S. S. City of Paris, N. 50° 56′, W. 15° 44′*†	30.35	770.9				nnw.			4		1?		n.	1 h'r	1 h'r	mod.	nw.	cloudy.?
S. S. Mentmore, N. 38° 08′, W. 68° 31′*†	30.19	766.8				e.			4		2		w.	0	0	sm'h		clear.
S. S. Virginian, N. 49° 05′, W. 28° 49′ *	30.44	773.2	59	15.0		sse.			4		0			0	0	sm'h		clear.
S. S. Archimedes, N. 43° 56′, W. 40° 29′	29.99	761.7				ese.			3-4		4		ese.	6 h'r	6 h'r	mod.	e.	fine.
S. S. Hevelius, N. 50° 30′, W. 2° 00′†	30.12	765.0	62	16.7		wnw.			5		6		nw.	1 h'r	1 h'r	sm'h		fair.
S. S. Colorado, Galveston, Texas†	30.02	762.5	80	26.7		e.			1		8		e.	light	light			cloudy.
S. S. Chalmette, N. 34° 40′, W. 75° 58′ †	30.17	766.3	75	23.9		ssw.			4		2		ssw.	0	0	mod.	s.	clear.
S. S. Lone Star, N. 24° 25′, W. 81° 52′ †	30.09	764.3	83	28.3		ese.			2		4		se.	0	0	sm'h		fair.
S. S. City of Merida, N. 31° 08′, W. 79° 07′ †	30.13	765.3	79	26.1		wnw.			2		2		nw.	0	0	mod.	ne.	clear.
S. S. Denmark, New York, N. Y†	30.10	764.5	68	20.0		se.			3		8		ne.	0	0			cloudy.
S. S. Egypt, N. 51° 00′, W. 13° 12′	30.37	771.4	58	14.4		n			4		5		n.	0	0	r'gh	n.	fair.
S. S. England, N. 40° 41′, W. 63° 31′	30.11	764.8				e.			2		0			0	0	sm'h		clear.
S. S. Erin, London, Eng	29.88	758.9	50	10.0		nw.			6		3		nw.	0	0			clear.
S. S. Helvetia, New York, N. Y	30.15	765.8	68	20.0	90	se.			1		5		se.	0	0			fair.
S. S. Holland, N. 48° 45′, W. 16° 50′	30.34	770.6	61	16.1		nw.			4		10		nw.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. Donau, N. 45° 08′, W. 41° 40′	30.23	767.8				se.			5		5		se.	2 h'r	2 h'r	r'gh	se.	fair.
S. S. Elbe, N. 46° 29′ W. 37° 37′	30.22	767.7	60	15.6	88	se.			6		10		se.	0	0	cross	sse.	misty.
S. S. Hohenstaufen, N. 49° 30′, W. 13° 38′	30.32	770.1				wnw.			4		9		nw.	0	0	mod.	nw.	hazy.
S. S. Hermann, N. 39° 30′ W. 70° 09′	30.09	764.3	70	21.1	85	ene.			2		5		ene.	0	0	mod.	ene.	fair.
S. S. Neckar, N. 51° 14′, E. 1° 52′	29.97	761.2	54.5	12.5	?	w.			2		5		w.	rain	rain	sm'h		fair.
S. S. Ohio, N. 38° 43′, W. 60° 23′	30.09	764.3				ne.			4		3		ne.	1 h'r	1 h'r	cross	var.	clear.
S. S. Salier, N. 41° 45′, W. 62° — ′ *	30.13	765.3	54	12.2	74	ene.			2		8		e.	0	0	sm'h	e.	misty.
S. S. Werra, N. 45° 59′, W. 37° 30′	30.22	767.6	63	17.2		ese.			4		2		ese.	0	0	sm'h	e.	clear.
S. S. City of Augusta, N. 37° 58′, W. 74° 39′ †	30.11	764.8				ese.			6		4		ese.	0	0	sm'h		fair.
S. S. Colon, N. 15° 13′, W. 76° 28′†	29.94	760.5	81	27.2	91	e.			5		3		e.	0	0	large	e.	clear.
S. S. Muriel, Martinique, W. I.	30.13	765.3	81	27.2		ene.			3		10		ene.	0	0	sm'h		overcast.
S. S. Orinoco, Bermuda Islands, Atlantic †	29.98	761.5	78	25.6		ene.			2		4		ene.	3 h'r	3 h'r			fair.
S. S. Belgenland, N. 47° 25′, W. 25° 30′ †	30.72	780.3	59	15.0	94	e.			4		3		e.	0	0	sm'h	e.	clear.
S. S. Nederland, N 42° 00′, W. 49° 00′*†.	30.30	769.6	59	13.3		ne.			4		10			3 h'r	3 h'r	mod.	ne.	foggy.
S. S. Rhynland, N. 49° 52′, W. 9° 00′	30.25	768.3	56	13.3	94	nnw.			6		6		nnw.	3 h'r	3 h'r	high	nnw.	fair.
S. S. Pennland, Antwerp, Belgium	30.01	762.2	56	13.3	87	n.			5		9		n.	5 h'r	5 h'r			squally.
S. S. Switzerland, N. 40° 35′, W. 64° 36′ †	30.18	766.6				nne.			1		2		n.	0	0	mod.	ene.	clear.
S. S. Waesland, Jersey City, N. J	30.10	764.5	69	20.6		se.			3		10		se.	0	0			cloudy.
S. S. P. Caland, N. 40° 59′, W. 51° 37′	29.91	759.7	67.5	19.7	95	ne.			6		10		ne.			6	ene.	cloudy.
S. S. Schiedam, N. 43° 01′ W. 47° 12′	29.96	761.0	64	17.8	89	nne.			3		10			3 h'r	3 h'r	long	e.	foggy.
S. S. W. A. Scholten, N. 49° 38′, W. 7° 40′	30.04	763.0	58.0	14.4	94	wnw.			6		8		nw.	6 h'r	6 h'r	4	nw.	cloudy.
S. S. Belize, Kingston, Jamaica, W. I*†	30.13	765.3	84	28.9		calm			0		0			0	0	sm'h		clear.
S. S. Caracas, N. 35° 38′ W. 72° 06′†	30.12	765.0	76	24.4	86	calm			0		2		nnw.	0	0	mod.	ne.	clear.
S. S. Valencia, N. 18° 58′, W. 67° 56′ †	30.22	767.6	82	27.8	85	e.			3		6		se.	0	0	mod.	ese.	fair.
S. S. State of Nevada, N. 41° 51′, W. 55° 04′ †	30.09	764.3	53	11.7		ne.			5		10		e.	6 h'r	6 h'r	mod.	ene.	overcast.
S. S. Thingvalla, New York, N. Y †	30.07	763.8	69.8	21.0		sw.			3		8		sw.	10 h'r	10 h'r			cloudy.
S. S. Toledo, N. 35° 16′, E. 17° 32′ *†	30.00	762.0	78	25.6		ssw.			2		0			0	0			clear.
S. S. Oregon, N. 54° 00′, W. 29° 16′	30.48	774.2	50	10.0		w.			2		10		w.			mod.	wnw.	foggy.
S. S. Lake Huron, Quebec, Canada	29.98	761.5	60	15.6		nne.			2		0			0	0			clear.
S. S. Lake Manitoban, off Maiden's Light, Eng	30.01	762.2	59	15.0		nw.			5		2		nw.	3 h'r	3 h'r	mod.		clear.
S. S. Daniel Steinmann, Quebec, Canada †	29.85	758.2	65	18.3		calm			0		0			0	0			clear.
S. S. Plantyn, N. 40° 47′, W. 59° 14′	30.00	762.0							3		2		wsw.	0	0	sm'h	sw.	clear.
S. S. Norman, N. 39° 25′, W. 75° 04′	30.10	764.5				ssw.			1		10		ssw.	0	0			overcast.
S. S. Saxon, Philadelphia, Pa †	30.07	763.8				se.			3		10							threatening
S. S. Britannic, N. 45° 04′, W. 43° 50′†	30.09	764.3	62	16.7		se.			3		8		se.	0	0	long	ese.	misty.
S. S. Celtic, New York, N. Y †	30.06	763.5	64	17.8		sse.			2		10		s.	0	0			cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Iowa, N. 43° 18′, W. 45° 56′ †	29.98	761.5	69	20.6		se.			5		2		se.	0	0	mod.	se.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.17	766.3	70	21.1	66	wsw.			3		6			0	0			fair.
Schr. Abbie H Gheen, Brooklyn, N. Y †	30.18	766.6	70	21.1		s			1									clear.
Bk. Aquidneck, N. 22° 03′, W. 37° 47′ *†	30.20	767.1				sw.					0			0	0	light	n.	clear.
Schr. Anna A. Holton, N. 27° 47′, W. 71° 51′*†	30.12	765.0	80	26.7		nw.			5		2		nw.	0	0	mod.	nw.	clear.
Schr. Arthur Burton, Boston, Mass †	30.09	764.3				s.			1		0			0	0			fine.
Bk. Aureola, N. 43° 16′, W 34° 39′ †	30.21	767.3	69	20.6		e.			2		8		e.	0	0	mod.	e.	foggy.
Bk. Arda, Sackville, N. B†	30.25	768.3				calm			0		4		ssw.	0	0			clear.
Bk. Alba, N. 39° 55′, W. 71° 09′*†	30.14	765.5	62.1	16.7		e.			1				s.	0	0		e.	
Bg. Belle of the Bay, N. 29° 09′, W. 87° 16′†	30.11	764.8				e.			1		3		se.	0	0	sm'h	s.	clear
Bk. Bayonnaise, N. 35° 05′, W 17° 32′			66.2	19		ese.			3		10		se.			sm'h	e.	covered.
Schr. C. R. Flint, Tampico Bar, Mexico†	30.00	762 0	82	27.8		se.			1		2		sse.	0	0	short	ese.	fair.
Bk. Cato, Lofoden Ids., Norway*†	29.67	753.6				n.			4		2		n.			sm'h	n.	clear.
S. Criterion, N. 40° 07′, W. 64° 30′ *†	30.00	762.0				ne.			2		0			0	0			clear.
Schr. Clotilde, Tuspan Bar, Mexico*†	29.97	761.2	82	27.8		calm			0		0			1 h'r	1 h'r	sm'h	e.	clear.
S. David Stewart, N. 1° 16′, W. 27° 59′†	29.88	758.9				se.			3		1		ese.	0	0	mod.	se.	clear.
S. S. D. J. Foley, N. 35° 05′, W. 74° 50′*†	30.06	763.5	79	26.1	86	sw.			1		3		wsw.	0	0	sm'h		fair.
Bkt. David A. Preston, N. 28° 11′, W. 76° 13′						calm			0		2			0	0	mod.	se.	
S. E. J. Spicer, N. 42° 52′, W. 58° 58′	30.18	766.6	54	12.2	93	ne.			3		10		ene.	0	0	mod.	e.	misty.
Bk. E. D Bigelow, N. 54° 43′, W. 3° 30′ *†	29.85	758.2	57	13.9		wnw.			5					0	0	short	w.	clear.
U. S. Fish. Com. S.S. Fish Hawk, near Pt. Comfort, Va†	29.91	759.7	79	26.1	95	calm			0		9		calm	0	0			cloudy.
S. Festina Lente, Cape Gaspe, Canada	30.05	763.3	57	13.9		ssw.			1		0			2 h'r	2 h'r	sm'h		clear.
Schr. F, E. Waters, N. 29° 51′, W. 75° 37′*†	30.20	767.1				w.			1				wnw.	0	0	sm'h	n.	fair.
Bgt George, N. 24° 03′, W. 62° 47′ *†	30.05	763.3	79	26.1		wsw.			3		2		w.	0	0	mod.	sse.	fair.
Bk. Galeon, N. 25° 35′, W. 79° 53′ †	30.12	765.0	82	27.8		e.			2		3		e.	1 h'r	1 h'r	sm'h	ene.	squally.
Bk. Heinrich & Tonio, N. 41° 43′, W. 47° 25′†	29.88	758.9	68.5	20.3		ene.			3		5		ene.	9 h'r	9 h'r	mod.	ene.	light rain.
S. Hedwig, N. 37° 44′, E. 17° 40′	29.93	760.2	80.4	26.9	84	wsw.			2		1		w.	0	0	sm'h		
Bk. Hattie G. McFarland, N. 35° 17′, W 74° 36′†	30.06	763.5	78	25.6		nr.w.			2		3		n.	0	0	sm'h	ne.	fine.
Bk. Harriett S. Jackson, near Cape Cod, Mass						s.			2		2		s.	0	0	light	se.	fine.
Bk. Horace Scudder, N. 13° 00′, W. 58° 12′*†	30.15	765.8	82	27.8		e.			4		4		e	0	0	light	e.	fine.
Schr. Isabel Alberto, N. 31° 41′, W. 80° 05′†	30.07	763.8				wsw.			2		2		w.	0	0	light	ese.	fair.
Bk. Johanne, N. 44° 54′, W. 46° 34′*†	30.00	762.0	62	16.7		ese.			3		10		se; e.	10 h'r	10 h'r	long	se.	dense fog.
Schr. John L. Thomas, Old Providence Island, C. A *†	30.00	762.0				e.			4		3		ese.	½ h'r	½ h'r			fair.
Bg. John Wesley, N. 19° 47′, W. 29° 40′	30.06	763.5	79	26.1		ne			4		2		ne.	0	0	mod.	ene.	clear.
Schr. Jennie N. Huddell, Charleston, S. C†	30.09	764.3	81	27.2		wsw.			1		0			0	0			clear.
S. J. W Gildemeister, N. 28° 10′, W. 36° 32′	30.20	767.1	75.1	24.5	83	s.			1	8 c	0			0	0	1	w.	overcast.
Bkt. Kryolith, Ivigtut, Greenland *†	30.11	764.8				calm			0		5		s.	0	0			fair.
Bg. L. & W. Armstrong, N. 24° 02′, W. 59° 04′*†	30.12	765.0				wsw.			3		1		w.	0	0	sm'h	se.	clear.
Light House Tender, Laurel, Key West, Fla†	30.06	763.5	84	28.9		ese.			2-3		8		e.	0	0			cloudy.
Bk. Louise Adelaide, N. 30° 00′, W. 79° 30′†	30.06	763.5	82	27.8		wnw.			1		2		wnw.	0	0	sm'h	nne.	fair.
Bk. Milo, N. 46° 05′, W. 59° 15′ †	30.15	765.8				ssw.			1							light	e.	dense fog.
S. S. Madrid, N. 36° 56′, W. 46° 43′†	29.91	759.7	72	22.2	90	s.			4		2		s.	0	0	r'gh	sw.	fair.
Schr. Minnie A. Bonsall, Haverstraw, N. Y.†	30.08	764.0	74	23.3		sw.			5				wsw.	6 h'r	6 h'r			covered.
Bgt. Myrtle, Mayagues, Porto Rico, W. I.*†	30.15	765.8				e.			3				e.	0	0			fair.
Schr. Maggie Abbott, N. 26° 40′, W. 74° 20′ †	30.12	765.0				calm			0		1		n.	0	0	mbd.	se.	clear.
Bk. National Eagle, N. 41° 51′, W. 26° 49′						se			5		8		ese.	0	0	mod.	se.	cloudy.
Bg. O. C. Clary, N. 23° 36′, W. 58° 51′ *†	30.12	765.0				wsw.			3		0					sm'h	nw.	clear.
Bk. Ottawa, off Cape Skaw, Denmark	29.81	757.2	59	15.0		ssw.			6		4		sw.	0	0	short	wsw.	fair.
S. Paramita, N. 25° 08′. W. 36° 42′†	30.20	767.1	82	27.8		se.			1		1		sw.	0	0	small	nnw.	clear.
S. S. Raleigh, off Sandy Hook, N. J.†	30.03	762.7	67	19.4		se.			1		8		sse.	0	0	light	se.	
S. Rudolph, N. 48° 01′, W. 22° 03′ *			61	16.1		calm			0		3		calm	0	0	sm'h	nne.	fair.
Bg. Rising Sun, Barbadoes, W. I.†	30.10	764.5	86	30.0		e.								0	0			
Bk. Rosino, N. 40° 43′, W. 18° 24′			65	18.3		ese.			3		6		se.	0	0	h'vy	ne.	fair.
Bk. Sunbeam, N. 41° 21′, W. 34° 09′ †	30.15	765.8	60	18.9	84	ene.			5		10		ene.	0	0	rg'h	e.	cloudy.
Bk. Southern Belle, N. 22° 16′, W. 49° 30′†	30.07	763.8	78	25.6		sse.			3		2			0	0	light	n.	clear.
S Sovereign of the Seas, N. 26° 15′, W. 38° 39′*†	30.34	770.6	82	27.8	75	sse.			1		1		s.	0	0	sm'h	nw.	clear.
Bg. Teneriffe, N. 39° 50′, W. 72° 18′*	30.00	762.0				e.			1		5		e.	0	0	sm'h	e.	
Bk. Tuck Sing, N. 21° 30′, W. 84° 02′*†	29.96	761.0				ne.			3		0			0	0	light	se.	fine.
Schr. Viola Reppard, Gardiner, Me†	30.07	763.8	68	20.0		s.			2		10		s.	0	0			cloudy.
Bkt. Wandering Jew, Matanzas, Cuba *†	30.06	763.5	80	26.7		ssw.			2		4		s.	4 h'r	4 h'r			fair.
Bgt. Sunlight, N. 27° 31′, W. 58° 37′*†						wsw.			4		9		wnw.	2 h'r	2 h'r	mod.	n.	light rain.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay †	29.94	760.5	58	14.4	100	se.			5-6		10					4	se.	drizzling.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.26	768.0	59	15.0		calm			0		2							blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.92	760.0	57	13.9	93	ese.	17	7.6			10		se.	0.69	17.5	mod.	se.	raining.
U. S. S. Galena, Montevideo, Uruguay*	29.91	759.7	56	13.3	100	ese.			5		10		ese.			mod.	ese.	raining.
S. Annie M. Law, S. 35° 51′, E. 18° 55′ *†	30.25	768.3	57	13.9		wsw.			2		8		w.	0	0	high	sw.	
S. Wm. McGilvery, S. 39° 16′, W. 57° 25′*†	30.15	765.8	47	8.3	77	sse.			4		8		w.	0	0	sm'h		
S. S. Olbers, Rio de Janeiro, Brazil†	30.20	767.1	74	23.3	76	calm			0					0	0	sm'h		fine.
Bk. Achille F., S. 32° —′, W. 45° 30′ †	30.01	762.2	68	20.0	95	n.			4		9		nw.	0	0	long	ene.	cloudy.
Bk. Alpheus Marshall, S. 10° 21′, W. 17° 46′*†	29.98	761.5				e.			3		4		e.	½ h'r	½ h'r			fair.
Bk. Ceylon, S 14° 41′, W. 7° 44′*†	30.27	768.8	76	24.4	82	ese.			5		9		se	sq'lls	sq'lls	mod.	se.	squally.
Bk. Gray Eagle, S. 24° 17′, W. 38° 40′*†	30.15	765.8				ne.			6		5		ne.	0	0	long	ese.	fair.
H. P. M. S. Duque de Terceira, Benguela, Benguela	30.03	762.7	69.8	21.0	89	nw.			2		2			0	0	1		d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.58	751.3	76	24.4	91	s.			1		4	se.						d. clouds.
H. M. S. Champion, east coast of Borneo Island	29.79	756.7	85	29.4	76	calm			0		6							d. clouds.
H. M. S. Espiegle, N. 7° 40′, E. 170° 26′	29.87	758.7	82	27.8	79	ene.			3		2					1	ene.	d. clouds.
H. M. S. Flying Fish, N. 37° 28′, E. 122° 51′	29.62	752.3	69.5	20.8	95	s.			3		7	s.				2	s.	d. clouds.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.83	757.7	82.5	28.1	79	sse.			1		3							d clouds.
H. M. S. Zephyr, N. 34° 41′ E. 135° 12′	29.83	757.7	74	23.3	81	sw.			2		3							d. clouds.
H. P. M. S. Tamega, Macao, China	29.90	759.4	82.4	28.0	83	wsw.			2		10			½h'r	½h'r			overcast.
U. S. Naval Hospital, Yokohama, Japan	29.94	760.5	71	21.7	87	ssw.			5		0			0	0			clear.
U. S. S. Adams, Sitka, Alaska†	29.81	757.2	47	8.3	92	nnw.			1		10							cloudy
U. S S. Essex, N. 21° 12′, W. 157° 15′	30.02	762.5	76	24.4	100	e.			2		5		e.					fair.
U. S. S. Hartford, Honolulu, Sandwich Ids *	30.00	762.0	78	25.6	82	calm			0		2			0	0			clear.
U. S. S. Monocacy, Salee river, Corea	29.70	754.4	70	21.1	90	w.			1		10		calm					misty.
U. S. S. Palos, Hong Kong, China	29.77	756.1	79	26.1	91	calm			0		8		calm					cloudy.
U. S. S. Richmond, Shanghai, China *	29.61	752.1	84	28.9	87	sse.			1-2		5		sse.	0	0			fair.
S. S. Coptic, N. 32° 29′, E. 135° 00′	29.80	756.9	76.5	24.7	88	e.			2		8		sse.	4 h'r	4 h'r	sl't	s.	foggy.
S. S. Oceanic, N. 45° 53′, E. 178° 13′	30.22	767.6	49	9.4	93	ssw.			5		10		sw.			light	var.	misty.
S. S Oregon, Portland, Oregon†	30.04	763.0	54	12.2	87	calm			0		0							clear.
S. S. Willametta, Seattle, Wash. Ter.†	30.13	765.3	56	13.3	94	nnw.			1		0			0	0			hazy.
S. S. Ancon, N. 32° 48′, W. 117° 27′ †	29.96	761.0	62	16.7	88	se.			2		10					light	sw.	overcast.
S. S. City of Chester, San Francisco, Cal.†	29.96	761.0	53	11.7	93	sw.			2		10							overcast.
S. S. Dakota, N. 47° 28′, W. 124° 54′†	30.11	764.8	53	11.7	80	w			3		10		w.			sm'h		cloudy.
S. S. Queen of the Pacific, N. 41° 55′, W. 124° 36′ †	29.99	761.7	51	10.6		nnw.			0		10			0	0	long	nw.	overcast.
S. S. City of New York, N. 20° 51′, W. 158° 03′†	30.05	763.3	78	25.6	82	e.			2		0			0	0	sm'h		clear.
S. S. City of Pekin, N. 42° 25′, W. 138° 00′†	30.18	766.0	56	13.3	81	w.			4		10		wnw.	0	0	small	wnw.	cloudy.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.93	760.2	83	28.3	100	s.			1		0					sm'h		clear.
S. S. Colima, N. 9° 32′, W. 85° 08′†	29.89	759.2	79	26.1	91	ne.			3		9		ne.	0.78	19.8	small	s.	cloudy.
S. S. Granada, N. 27° 28′, W. 114° 48′†	29.91	759.7	61	16.1	88	nw.			0		1		n.	0	0	mod	nw.	clear

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. San Blas, N. 13° 23′, W. 89° 47′ *†	30.04	763.0	82	27.8		ene.			1		6		ese.	1 h'r	1 h'r	sm'h	s.	fair.
S. S. San José, N. 28° 16′, W. 116° 09′ †	29.96	761.0	61	16.1		nw.			4		2		nnw.	0	0	long	nw.	clear
S. S. Benledi, N. 32° —′, E. 127° —′ *	29.75	755.6	74.5	23.6	93	w.			1–3		fg.			0	0	sm'h		dense fog.
S. S. Radnorshire, Nagasaki, Japan *†	29.78	756.4				ssw.			3		8		ssw.	2 h'r	2 h'r			threatening
S. Sacramento, N. 10° 00′, E. 123° 45′*†	29.94	760.5	82	27.8	75	nne.			3		6		nne.	4 h'r	4 h'r	sm'h		fair.
S. St. David, N. 22° 40′, E. 125° 00′ *†	29.90	759.4	85.3	29.6	83	ese.			2		2		ese.	0	0	sm'h		clear.
Bk. Xenia, Shanghai, China*†	29.94	760.5	91	32.8		e.			3		0			0	0			clear.
H. M. S. Sappho, N. 24° 10′, W. 111° 54′	29.87	758.7	67	19.4	95	nw.			3		3	nw.				6	nw.	d. clouds.
U. S. S. Ranger, San Jose, Gautemala	29.92	760.0	81	27.2	78	se.			3		8			0	0	mod.	se.	cloudy.
S. Henry Failing, Wilmington, Cal†	29.78	756.4	63	17.2		e.			1		fg.		nw.	0	0	sm'h	wnw.	foggy.
S. Grecian, Yokohama, Japan†	29.87	758.7	72	22.2	80	s.			4		0			0	0			clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W.			56	13.3	81	calm			0		0							blue sky.
H. M. S. Kingfisher, S. 40° 33′, W. 108° 46′	29.62	752.3	57	13.9		wnw.			5		6					6	nnw.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.75	755.6	73	22.8	95	n.			1		6	e.						d. clouds.
U. S. S. Iroquois, Valparaiso, Chili	30.05	763.3	53	11.7	93	w.			2		10							rainy.
U. S. S. Lackawanna, S. 13° 06′, W. 80° 06′*	29.94	760.5	67	19.4	74	se.			6		10		se.			mod.	se.	cloudy.
U. S. S. Onward, Callao, Peru†	30.12	765.0	63	17.2	89	se.			2		10		se.					misty.
U. S. S. Pensacola. Callao, Peru*	29.95	760.7	63	17.2	94	sse.	4	1.8	4		10		sse.	0	0			cloudy.
U. S. S. Wachusetts, S. 13° 40′, W. 143° 43′	29.99	761.7	79	26.1	91	e.			4		2		e.			mod	ene.	clear.
S. S. Australia, Sydney, N. S. W.	30.13	765.3	54	12.2	93	n.			6		6		n.	0	0			fair.
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.88	758.9	77.3	25.2	89	ene.			3		8					sm'h		misty.
S. S. City of Sydney, Auckland, New Zealand*†	30.33	770.4	56	13.3	81	sw.			1		0					sm'h		clear.
S. Parker M. Whitmore, S. 31° 00′, W. 110° 30′ *†	30.00	762.0	68	20.0		nw.			6		10			20 h'r	20 h'r	cross	var.	rainy.
S. Storm King, S. 24° 32′, W. 93° 08′ *†	30.33	770.4				se.			4		2		se.	0	0	long	s.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	29.96	761.0	80	26.7		se.			3		2	sse.				2	sse.	d. clouds.
U. S. S. Enterprise, Murundava, Madagascar *	30.02	762.5	76	24.4	86	n.			1		0					sm'h		clear.
U. S. S. Juniata, Colombo, Ceylon, India	29.77	756.1	82	27.8	96	wsw.			2		10		sw.	0	0			hazy.
S. S. Malabar, N. 13° 11′, E. 86° 37′	29.67	753.6				sw.			7		5		sw.	0	0	hv'y	sw.	fair.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 19, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec.	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.06	763.6	73.0	22.8	88	se.			3		0			0	0	clear	Malaterre.
Algiers			30.06	763.4	73.4	23.0	40	n.			4		0			0	0	clear	Thève.
La Galle			29.96	760.9															Fonfrède.
Tunis			29.94	760.5															Jacques.
Saida			30.08	764.0															Pérès.
Tebessa			29.99	761.7	78.8	26.0	30	nw.			2		2			0	0	fair	St. Martin.
Geriville					83.3	28.5	9	se.			1		0			0	0	clear	Forfert.
Laghouat			29.96	760.9	88.9	31.6	28	ne.			2		0			0	0	clear	Abraham.
Biskra			29.96	761.0	89.6	32.0	29	nw.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.07	763.8	55.8	13.2	66	ne	11	4.9		6 c;ck		w.		0	0	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.01	762.2	30.10	764.5	54.3	12.4	78	nne.	9	4.0			8			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.13	740.0	29.67	753.6	60.4	15.8	90	sw.			5		10			0.248	6.3		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.79	731.2	29.53	750.1	62.6	17.0	92		6.3	2.8			10			0.520	13.2	thund'rst'm	Dr. Wierzbiski
Eperies	28.71	729.1	29.55	750.5	68.2	20.1	87	s.			2	c	9 ks		n.	0.449	11.4		Julius Mikolik.
Gratz	28.42	721.8	29.64	752.8	59.2	15.1	88	n.			3		10			1.437	36.5		Andreas Rospini.
Hermannstadt	28.26	717.8	29.67	753.5	83.1	28.4	39	ssw.			4		5			0.102	2.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.39	721.0	29.72	754.9	50.2	10.1	91	w.			3		10			1.083	27.5	raining	The Staff.
Lemberg	28.63	727.3	29.57	751.0	73.4	23.0	70	se.			2		9			0.346	8.8		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.62	752.4	29.73	755.2	61.9	16.6	68	sw.			4		4			1.071	27.2		I. R.Hydrographic Office.
Szathmar	29.14	740.1	29.58	751.3	70.2	21.2	87	s.			4		9			0.118	3.0		Joseph Midlinszky, S. J.
Szegedin	29.35	745.6	29.62	752.4	71.2	21.8	54	s.			4		6			0.024	0.6	lightning	Karl Stancel.
Trieste	29.61	752.0	29.71	754.5	66.9	19.4	75	w.			1		9			0.543	13.8		Royal Academy.
Vienna	28.88	733.5	29.59	751.5	53.2	11.8	94	w.			5		10			0.732	18.6	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.77	756.1	29.87	758.7	51.7	10.9	69	se.	15	6.7			7			0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.63	752.6	29.87	758.7	51.5	10.8	96	sw.	7	3.1			10					raining	S. Gall.
Bidston, Liverpool Obs'y			29.91	759.7	56.1	13.4	56	wnw.	12	5.4			4					d. clouds	John Hartnup.
Bolton, Sharples	29.44	747.8	29.98	761.5	56.1	13.4	63	wsw.	18	8.0			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.48	748.8	29.88	758.9	56.5	13.6	60	ne.			2		10			0	0	overcast	McLandsborough&Preston.
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	82.0	27.8	71	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.81	757.2	29.91	759.7	57.2	14.0	78	n.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	29.76	755.9	29.90	759.4	52.0	11.1	93	calm					10					raining	Corpl. G. A. Pickles.
Falmouth, Observatory	29.80	756.9	30.03	762.7	57.9	14.4	55	nw.			3		6					d. clouds	The Staff.
Fort Napier, Natal	27.89	708.4	30.11	764.8	69.5	20.8	70	ne.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.61	752.1	29.84	757.9	79.0	26.1	86	sw.			1		2					raining	J. W. Smith.
Galway, Queen's College	29.86	758.4	29.89	759.2	55	12.8	87	wnw.			2		7			0.01	0.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.99	761 7	30.04	763.0	71.4	21.9	84	e.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.62	752.3	29.82	757.4	56.3	13.5	51	sw.			2		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.72	754.9	29.89	759.2	57.4	14.1	78	sw.			1		10					drizzling	The Staff.
Guernsey	29.71	754.6	30.01	762.2	58.0	14.4	82	nw.			1		5			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.87	758.7	29.91	759.7	59.5	15.3	71	nw.	4	1.8			6					d. clouds	The Staff.
Leicester, Museum	29.64	752.8	29.89	759.2	58.0	14.4	64	sw.			1		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	74.2	23.4	93	sw.					3					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.07	763.8	30.11	764.8	84.5	29.2	60	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.40	746.7	29.92	760.0	57.2	14.0	59	wnw.			1		9					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.69	754.1	29.92	760.0	55.7	13.2	69	nnw.			3		10					overcast	The Staff.
Plymouth	29.91	759.7	29.98	761.5	61.6	16.4	55	wnw.			3		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.76	755.9	29.86	758.4	51.5	10.8	83						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.74	755.4	29.80	756.9	81.0	27.2	69	sw.			1		0					blue sky	W. H. Lyne.
Sheffield	29.60	751.8	29.88	758.9	60.3	15.7	74	ssw.			1		3			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.83	757.7	29.86	758.4	58.2	14.6	63	w.			3		5			0.090	2.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	29.98	761.5	30.08	764.0	61	16.1	71	nw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.00	762.0	30.03	762.7	55.3	12.9	87	w.	22	9.8			8					misty	The Met'g'l Office.
Sub-series.																			
Goxo, Episcopal Seminary	29.62	752.3	30.02	762.5	71.6	22.0	56	nw.	18.6	8.3		1 c		w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.					60.0	15.6		s.				6 ck	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.02	762.5	30.06	763.5	59	15.0	81	s.	8	3.6		2 c	2 s	calm	calm	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.95	760.7	30.02	762.5	57	13.9	69	sw.	6	2.7		8 ck	2 ks	sw.	sw.	0	0	fair	G. A. Blair.
Cornwall, Ontario	29.34	745.2	29.52	749.8	68.0	20.0	87	w.			2		10 n			1.482	37.6	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.91	759.7	29.96	761.0	57.5	14.2		e			3		10 s			0	0	gloomy	H. A. Johnson.
Father Point, Quebec*	29.78	756.4	29.80	756.9	59	15.0	90	calm	0	0			10			0.02	0.5	light rain	J. McWilliams.
Fort Garry, Manitoba*	30.08	764.2	29.90	759.4	51	10.6	93	n.	16	7.2		0	0			0.09	2.3	fair	James Stewart.
Fredericton, N. B	29.97	761.2	30.04	763.0	57.0	13.9	63	se.	8	3.6		10 cs	0			0	0	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.62	726.9	29.68	753.9	63.0	17.2	89	sw.	9	4.0						0.10	2.5	fine	Jas. Grant.
Halifax, N. S*	30.00	762.0	30.13	765.3	52	11.1	86	se.	5	2.2		8 k	0	s.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.20	741.7	29.57	751.1	69.5	20.8	90	sw.			3	2 k	0	sw.		0.45	11.4	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.29	744.0	29.62	752.3	58	14.4	93	sw.	8	3.6			10 ks		sw.	1.99	50.5	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.06	763.5	30.10	764.5	58.0	14.4	79	s.			3	4 c	0	sw.		0	0	fair	C. H. Rigby.
London, Ontario	28.80	731.5	29.67	753.6	65.7	18.7	82	sw.				0	6 ks			0.48	12.2	d. clouds	E. B. Reed.
Montreal, Quebec*	29.39	746.5	29.59	751.6	61	16.1	96	se.	13	5.8			10 s		se.	1.14	29.0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.27	743.4	29.50	749.3	67.0	19.4	89	sw.			2	6 ck	0			0.86	21.8	fair	A. McGill, M. A.
Parry Sound, Ontario*	29.86	758.4	29.53	750.0	56	13.3	93	sw.	22	9.8			10 n		w.	0.35	8.9	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.89	733.8	29.59	751.6	66.7	19.3	78	w.			3	0	7 k			0.030	0.8	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.02	737.1	29.68	753.9	64	17.8	89	sw.	12	5.4		0	0			0.73	18.5	clear	H Morgan.
Port Stanley, Ontario	29.07	738.4	29.69	754.1	63	17.2	90	w.	8	3.6		5 ck	0	w.		0.66	16.8	fair	M. Payne.
Quebec, Quebec*	29.38	746.2	29.72	754.9	59	15.0	100	e.					10n		s.	0.26	6.6	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.02	737.1	29.43	747.5	61	16.1	84	w.	6	2.7			10 ks			0.56	14.2	cloudy	W. H. McIntyre.
St. Andrews, N .B	29.96	761.0	30.02	762.5	50	10.0	96	s.	7	3.1			10 n			0	0	cloudy	
St. John, N. B	29.88	758.9	30.04	763.0	55.0	12.8	80	sw.	7	3.1		9 k	0			0	0	d. clouds	G. Murdock, C. E.
Saint John's, N. F.	29.96	761.0	30.21	767.3	52	11.1	93	se.			1		10 n			0.02	0.5	overcast	J. Higgins.
St. Pierre, N. F.			30.08	764.0	49.8	9.9		se.			2					0	0		The Commandant.
Saugeen, Ontario*	29.89	759.2	29.58	751.3	61	16.1	87	sw.	24	10.7			10 ks			0.21	5.3	cloudy	
Stratford, Ontario	28.41	721.6	29.64	752.8	63.5	17.5	86	w.	12	5.4		3 c;cs	3 ks		sw.	0.547	13.9	blue sky	C. J. Macgregor, M A.
Sydney, C. B*	30.05	763.3	30.11	764.8	61	16.1	72	sw.	8	3.6		2 c	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.27	743.4	29.63	752.6	66	18.9	81	sw.	13	5.8		0	0			0.69	17.5	clear	Magnetic Observatory.
Windsor, N. S	29.97	761.2	30.06	763.5	57.0	13.9	75	e.	6	2.7		8 c	0			0	0	d. clouds	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.65	727.7	29.66	753.4	67.5	19.7	79	sw.	23	10.3		1 k	0	w.		0.22	5.6	blue sky	Prof Wolverton, M.A.
Yarmouth, N. S*	30.01	762.2	30.08	764.0	52	11.1	100	se.	8	3.6		8 ck	2 s	w.	se.	0	0	cloudy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper 0-10	Clouds. Amount and kind. Lower 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.17	766.3	30.20	767.1	65.0	18.3	78	n.	6.0	2.7		0	0			0	0	light haze	John Du[illegible]
Springbok Fontein	27.93	709.4			66	18.9	23	se.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Guelay.
Tchang-kia-tchouang	29.72	754.9	29.83	757.7	80.6	27.0	28	e.			2		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.75	755.7	29.78	756.3	78.4	25.8	92	calm	0	0		ck;cs	7 k	w.	w.	0.008	0.3	very cloudy	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.83	757.7	29.88	758.9	61.3	16.3	62	nne.	9	4			2						Oversergent Fischer.
Fanoe	29.86	758.4	29.88	758.9	59.0	15.0	63	wnw.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	30.08	763.9	30.12	765.0	36.1	2.3	96	nne.			2		10					foggy	S. Kleinschmidt.
Jacobshavn, Greenland	30.06	763.4	30.10	764.6	34.9	1.6		s.			2		7						
Stykkisholm, Iceland	29.95	760.6	29.99	761.7	48.6	9.2	80	e.			2		0						A. O. Thorlacius.
Thorshavn	29.95	760.6	29.97	761.2	50.7	10.4	75	e.	9	4			5						Overloerer Bergh.
Vestervig	29.79	756.7	29.88	759.0	56.5	13.6	70	wsw.			2		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.73	755.2			91.8	33.2		ne.	7.4	3.3		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.44	747.7	30.09	764.2	59.7	15.4	76	nw.			1		10 n			0.594	15.1	covered	M. Labroue, Director.
Alençon, Normal School	29.48	748.8	30.03	762.8	58.6	14.8	70	sw.			1		k		ne.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Féréon, Commandt.
Avignon, Normal School	29.83	757.6	29.91	759.6	71.2	21.8	44	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.36	745.8	29.91	759.6	62.6	17.0	63	nne.			1	0	8 kn		nw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.66	753.3	29.92	759.9	63.1	17.3	56	e.			1		8		ene.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.98	736.2	29.87	758.6	64.4	18	76	s.			1	0	0			0.059	1.5	clear	M. Gobin, Director.
Bordeaux, Observatory	29.78	756.3	30.04	762.9	61.3	16.3	57	nw.			2		8		nnw.	0.299	7.6	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.41	747.1	29.96	760.9	55.4	13	88	wsw.			1		n		wsw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.85	758.2	30.10	764.4	59.7	15.4	80	nw.			1		9		nw.	0.453	11.5		M. de Kermarès, Dir.
Caen, Normal School	29.86	758.4	29.93	760.2	60.8	16	59	n.			1		10		n.	0.323	8.2	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.54	750.4	29.85	758.2	60.6	15.9	80	e.			2		8	sw.	w.	0.008	0.2	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.39	746.4	29.89	759.2	62.2	16.8	66	ne.			2		8			0	0	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.60	726.4	29.95	760.6	56.5	13.6	78	nw.			1		10			0.232	5.9	covered	M. Allnard, Director.
Cluny, Normal School	29.04	737.7	29.88	758.9	66.2	19	38	n.			1		4	n.	ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.06	738.2	29.91	759.8	57.2	14	62	w.			1		kn	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.31	693.6	29.79	756.7	61.7	16.5	73	n.			2	0	3 k			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.76	730.4	29.85	758.2	65.5	18.6	49	nw.			4		3		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.13	740.0	29.89	759.2	63.3	17.4	55	nw.			1	ck	0			0.059	1.5	very cloudy	M. Ablard, Director.
Guéret, Normal School	28.36	720.3	29.92	759.9	57.2	14.0	87	w.			1	0	8 kn		sw.	0.035	0.9		M. Delorme, Dir.
Lamballe, Normal School	29.85	758.1	30.11	764.9	61.9	16.6	64	nw.					k		nw.	0.138	3.5		M. Ollitrault, Director.
Lescar, Normal School	29.50	749.4	30.06	763.6	63.1	17.3	59	sw.			3	0	5 k			1.339	34.0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.95	760.8	30.06	763.4	59.0	15.0	72	wnw.			1		10	w.	n.	0.024	0.6	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.87	733.4	29.92	760.0	61.2	16.2	40	ne.			1		5		n.	0.071	1.8	cloudy	M. André, Director.
Mans, Normal School	29.63	752.6	29.94	760.4	61.0	16.1	70	nne.			3		5		nnw.	0.083	2.1	cloudy	M. Piboën, Director.
Marseille, Observatory	29.62	752.3	29.88	759.0	69.8	21.0	27	nw.			4		3		nw.	0	0		M. Stephan, Director.
Montlouis	24.80	629.9	29.64	752.9	50.4	10.2	50	w.	11.2	5.0			7	nw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.76	755.8	29.88	758.9	70.5	21.4	65	w.			4		5		w.	0	0	cloudy	M. Gaizin, Director.
Nancy, Normal School	29.11	739.5	29.89	759.1	59.7	15.4	71	e.			1		kn			0	0		M. Hasse, Director.
Nantes, Observatory	29.87	758.7	30.03	762.8	62.8	17.1	67	nw.			1-2	0	8k;kn;n		nw.	0.138	3.5		M. Larocque, Director.
Perpignan, Observatory	29.86	758.5	29.97	761.3	67.5	19.7	44	nw.	28.0	12.5			5	w.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.20	538.4			30.2	— 1.0		nw.			2		10		nw.	1.378	35.0	snowy	M. Vaussenat, Director.
Privas, Normal School	28.85	732.7	29.89	759.1	66.4	19.1	45	n.			1		5 n		n.	0	0	cloudy	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.06	636.6			36.7	2.6	100	nw.			4		10			0.031	0.8	raining	M. Allnard.
Rochefort, Naval Obs'y	29.96	761.0	29.99	761.8	66.2	19.0	61	wnw.			4		8		nw.	0.20	5.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.73	755.1	29.94	760.4	64.8	18.2	60	sw.			1		8	se.	se.	0.016	0.4	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.81	706.3	29.95	760.6	54.9	12.7		nw.			1		10 n			0.114	2.9	raining	M. Seger, Director.
Rouen, Normal School	29.89	759.3	29.94	760.5	63.7	17.6	61	w.			2		5	w.		0.362	9.2	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.75	755.7	29.91	759.8	63.3	17.4	52	calm			0		7		nw.	0.091	2.3		M. Renou, Director.
Toulouse, Observatory	29.34	745.3	30.07	763.7	65.7	18.7	51	wnw.			4		8	nw.		0.417	10.6	very cloudy	M. Bailland, Director.
Tours	29.76	755.8	29.93	760.3	63.7	17.6	62	nw.			2		5		nw.	0.079	2.0	cloudy	M. de Tastes.
Versailles, Observatory	29.43	747.6	29.92	760.0	61.2	16.2	61	nw.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.98	761.5	30.13	765.3	64.6	18.1	62	nw.	19.7	8.8			7 k		w.	1.386	35.2		M. Cartier, Director.
GERMAN.																			
Ansbach	28.41	721.7	29.84	757.8	60.1	15.6	54	ne.			2		9	ne.		0.004	0.1		Prof. Jnedt.
Bamberg	28.98	736.1	29.82	757.3	58.1	14.5	66	nw.			2	0	8 ks		w.	0.028	0.7	raining	Prof. Dr. Hoh.
Berlin	29.67	753.6	29.81	757.1	62.2	16.8	59	n.			1		10			0.004	0.1		Dr. Sensch.
Breslau	29.14	740.2	29.67	753.5	56.3	13.5	95	nne.			3		10			0.291	7.4	rain & fog	Royal University Obs'y
Carlsruhe	29.43	747.4	29.87	758.7	64.4	18.0	41	w.			2		9	nw.		0.024	0.6		Albert Senz.
Cassel	29.15	740.3	29.86	758.4	66.2	19.0	40	nw.			4		7	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.87	758.8	69.6	20.9	34	wnw.			1		7			0	0		Physical Society.
Friedrichshafen	28.48	723.5	29.90	759.4	52.2	11.2	80	ne.			4		8	w.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.79	756.6	29.88	758.9	69.3	20.7	54	wsw.			3		3			0	0		E. Preller.
Kiel	29.85	758.2	29.87	758.6	61.0	16.1	54	calm			0		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.42	747.3	29.84	758.0	54.3	12.4	91	n.			2		10			0.055	1.4	raining	H. Leppig, Asst.
Magdeburg	29.63	752.7	29.82	757.3	65.3	18.5	53	nnw.			2		10	nw.		0	0		Weather Observatory
Memel	29.77	756.2	29.82	757.4	60.6	15.9	84	nne.			4		10 ks						Issermann.
Munich	28.03	711.9	29.88	758.9	50.5	10.3	88	calm			0		10	sw.		0.772	19.6		Central Station.
Neufahrwasser	29.79	756.7	29.81	757.1	61.3	16.3	61	n.			3		7			0	0		A. Lothes.
Neustadt, Palatinate	29.31	744.4	29.83	757.7	62.2	16.8	49	w.			2		8	w.		0	0		Dicknether.
Stuttgart	28.90	734.1	29.77	756.1	65.8	18.8	33	n.			2		4	n.		0	0		Prof. Dr. Schoder.
Wustrow	29.87	758.8	29.90	759.5	63.3	17.4	50	ene.			3		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.49	749.1	29.85	758.3	87.3	30.7		s.			2.0		2			0	0	hazy	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.48	748.8	29.53	756.0	90.0	32.2	66	w.	36.0	16.1			5			0	0	misty	
Deesa	29.03	737.3	29.48	748.8	98.6	37.0	36	sw.	25.0	11.2			3	sw.	sw.	0	0	d. clouds	
Bombay	29.65	753.1	29.69	754.0	86.7	30.4	79	w.	17.0	7.6			4	wsw.	w.	0	0	d. clouds	
Poona, Yarrowda	27.85	707.3	29.68	753.9	81.3	27.4	62	w.	25.0	11.2			10			0.02	0.5	overcast	
Trichinopoly	29.40	746.6	29.66	753.5	97.6	36.4	32	calm	0	0			6	nne.	ne.	0.18	4.6	d. clouds	
Belgaum	27.20	690.7	29.73	755.1	74.5	23.6	73	w.	17.0	7.6			5	w.		0.02	0.5	d. clouds	
Lahore	28.64	727.4	29.33	745.0	106.8	41.6	18	calm	0	0						0	0	blue sky	
Roorkee	28.47	723.2	29.32	744.7	101.9	38.8	24	w.	5.0	2.2						0	0		
Agra	28.83	732.4	29.36	745.8	106.1	41.2	22	w.	10.0	4.5			6		w.	0	0	d. clouds	
Nagpur	28.56	725.4	29.60	751.9	76.3	24.6	94	wnw.	6.0	2.7			10		nw.	0.35	8.9	overcast	
Jubbulpore	28.21	716.4	29.53	750.1	86.7	30.4	59	calm	0	0			8		nw.	0.06	1.5	d. clouds	
Lucknow	29.01	737.0	29.37	746.1	99.4	37.4	45	nne.	2.0	0.9			5			0	0	d. clouds	
Allahabad	29.10	739.1	29.40	746.8	90.7	32.6	49	sw.	8.0	3.6			7	w.	w.	0	0	d. clouds	
Patna	29.31	744.5	29.49	749.1	81.6	27.6	85	e.	2.5	1.1			10	e.	e.	0.05	1.3	overcast	
Hazaribagh	27.54	699.5	29.49	749.1	87.6	30.9	62	calm	8.4	3.8			10			0	0	thunder	
Cuttack	29.51	749.5	29.53	751.5	80.7	27.1	88	wsw.	0	0			10		wsw.	0.38	9.6	drizzling	
Calcutta, Alipore	29.54	750.3	29.56	750.8	83.8	28.8	87	ssw.	7.0	3.1			10		sw.	0.32	8.1	overcast	
Dhubri	29.45	748.1	29.57	751.1	77.1	25.1	94	calm	2.0	0.9			9			2.59	65.8	d. clouds	
Chittagong	29.63	752.6	29.72	754.9	74.6	23.7	97	s.	6.0	2.7			10			0.04	1.0	drizzling	
Sibsagar	29.28	743.6	29.61	752.1	82.0	27.8	87	ne	2.0	0.9			10	w.	w.	0.12	3.0	d. clouds	
Jeypore	28.05	712.4	29.42	747.4	97.7	36.5	40	nw.	9.4	4.2			2		nw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Zanzibar	30.00	762.0	30.02	762.6	83.7	28.7	57	ese.	8.2	3.7			3	se.		0	0	d. clouds	
Bellary	28.19	716.0			88.0	31.1	50	w.	18	8.0		5 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.32	744.6	29.71	754.7	55.9	13.3	90	ne.	4.9	2.2			10			1.646	41.8		Prof. Giovanni Clodig.
Milan	29.24	742.7	29.75	755.6	66.7	19.3	64	se.	3.1	1.4			7	ene		0.276	7.0		Prof. G.V.Schiapparelli.
Padua	29.63	752.6	29.74	755.3	62.8	17.1	51	nne.	6.9	3.1			7	w.		0.417	10.6		Prof. Dott. Lorenzoni.
Moncalieri	28.82	732.1	29.71	754.6	69.8	21.0	58	e.	4.3	1.9			3	n.		0.031	0.8		Prof. F. F. Denza.
Genoa	29.58	751.3	29.77	756.1	67.6	19.8	57	s.	6.9	3.1			4	sw.		0.543	13.8		Prof. G. M. Garibaldi.
Mondovi	27.85	707.4	29.74	755.3	66.6	19.2	35	ese.			2		0			0.024	0.6		Prof. D. C. Bruno.
Pesaro	29.71	754.6	29.76	755.8	50.0	10.0	9	sw.	21.0	9.4			8			0.322	8.2		Prof. Luigi Guidi.
Florence	29.57	751.1	29.82	757.5	62.2	16.8	79	w.			2		7			0.374	9.5		Prof. Costantino Pittei.
Leghorn	29.69	754.0	29.77	756.1	66.9	19.4	62	wsw.	13.0	5.8			4	sw.		0.087	2.2		Prof. P. Monte.
Rome	29.70	754.4	29.87	758.7	72.0	22.2	45	ssw.	18.6	8.3			7	s.		0.118	3.0		Prof. P. Tacchini.
Lecce	29.64	752.9	29.88	759.0	79.2	26.2	42	e	3.8	1.7			6			0	0		Prof. C. de Giorgi.
Cosenza	29.08	738.7	29.93	760.2	79.2	26.2	65	wsw.	3.8	1.7			3	sw.		0	0		Prof. D. Conti.
Cagliari	29.79	756.6	29.98	761.4	70.3	21.3	48	w.			4		7	w.		0	0		Prof. A. Pacinotti.
Palermo	29.77	756.1	30.01	762.3	69.6	20.9	46	nw.	16.8	7.5			5	w		0	0		Prof. G. Cacciatore.
Syracuse	29.85	758.2	29.89	759.3	69.8	21.0	65	nne.	16.8	7.5			4	nne.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.45	747.9	29.96	760.9	69.3	20.7	56	sw.	19.2	8.6			7	sw.		0	0		Prof. F. Brioschi.
Stelvio	21.98	558.3			32.5	0.3	100	ne.			2		10			0.197	5.0	covered	Prof. P. F. Denza.
Valdobbia	22.02	559.5			37.0	2.8	74	n.			4		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.68	753.8	29.71	754.7	73.0	22.8	80	calm			0	2 ck	7 ck	sw.	sw.	0.264	6.7	cloudy	H. Hattori.
Awomori	29.55	750.6	29.58	751.3	73.6	23.1	78	w.	23.4	10.5		0	4 ck		w.	0.061	1.5	fair	K. Ogawa.
Hamamatsu	29.84	757.9	29.87	758.7	71.7	22.1	96	s.			4		10 n		sw.	0.146	3.7	raining	Y. Sekigawa.
Kanazawa	29.66	753.3	29.76	755.8	75.0	23.9	79	w.	0.6	0.3		0	0			0	0	clear	S. Endo.
Kagoshima	29.83	757.6	29.84	757.9	74.7	23.7	90	nw.			2	2 c;cs	0	nw.		0	0	clear	G. Miyanohaza.
Kioto	29.63	752.6	29.80	757.0	76.5	24.7	78	sse.	4.4	2.0			10ck;s		sw.	0	0	cloudy	M. Tojima.
Kochi	29.81	757.2	29.83	757.7	76.9	24.9	91	ese.	3.9	1.7			10 s		se.	inap.	inap.	overcast	K. Kusunose.
Miasaka	29.79	756.6	29.81	757.3	76.8	24.9	91	n.			2	1 cs	0	w.		0	0	clear	K. Masusaki.
Miyako	29.57	751.0	29.68	753.8	75.8	24.3	71	sw.	2.8	1.2		3 c	0			0.035	0.9	fair	N. Honno.
Nagasaki, I. M. Obs'y	29.64	752.8	29.83	757.7	73.3	22.9	92	w.	2.4	1.1			10 s		w.	0.010	0.2	overcast	S. Takehayashi.
Niigata	29.60	754.1	29.72	754.9	78.7	25.9	76	sw.	2.2	1.0		0	9 ks;s		w.	0.010	0.2	cloudy	M. Morita.
Nobiru	29.71	754.5	29.72	754.9	68.8	20.4	87	s.	8.1	3.7		8ck;cs	0	w.		0	0	fair	H. Midzushima.
Numazu	29.83	757.7	29.87	758.6	71.1	21.7	94	ssw.			4		10 n		w.	0.008	0.2	light rain	R. Kaneda.
Osaka	29.79	756.5	29.80	757.0	73.9	23.3	86	sw.	10.7	4.7		0	9 s;ck		sw.	0	0	cloudy	H. Omura.
Sakai	29.72	754.9	29.73	755.1	76.0	24.4	73	sw.			2	0	1 ks		ssw.	0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	29.73	755.1	29.86	756.9	71.0	21.7	87	ssw.	18.1	8.0		2 cs	1 ks	n.	sw.	0	0	fair	The Staff.
Wakayama	29.75	755.7	29.80	757.0	76.1	24.5	76	sw.	2.9	1.3		6 c	2 ck	n.	sw.	0	0	cloudy	K. Sakai.
Shimonoseki	29.65	753.0	29.79	756.6	74.1	23.4	88	calm			0	0	0			0	0	clear	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	73.5	23.1	72	ese.	16.5	7.4		0	3ks;kn		ese.	0.04	1.0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.69	601.8	29.91	759.8	60.4	15.8	77	ene.	7.8	3.5			10 k;kn		ne.	0	0	very cloudy	Prof. Vicente Fernandez
Leon	24.31	617.5	29.89	759.2	64.8	18.2	75	ese.	1.8	0.8		5 c	3 k	e.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.62	752.2	29.87	758.7	79.0	26.1	78	ne.	0.9	0.4		1 cs	0			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					73	22.8	84	e.	12.1	5.4		0	0			0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.93	760.1	29.93	760.1	67.1	19.5		sse.			3					0	0		
Groningen	29.93	760.2	29.98	761.6	56.7	13.7		nnw.			2					0.043	1.1		
Helder	29.93	760.3	29.93	760.3	54.5	12.5		nw.			2					0	0		
Hellevoetsluis	29.92	760.0	29.92	760.0	65.8	18.8	54	calm			0					0	0		
Utrecht	29.89	759.1	29.93	760.3	62.6	17.0	36	nne.			2		8			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.84	758.0			78.6	25.9	85	ene.	0	0			1			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.79	756.6	29.85	758.2	50.4	10.2	72	wnw.	4	2			10			0.098	2.5		
Brono	29.75	755.6	29.79	756.6	51.1	10.6	65	n.			6		4			0	0		
Christiania	29.61	752.0	29.75	755.6	60.6	15.9	61	ssw.	16	7			5			0.181	4.6		
Gjæsvær	29.81	757.1	29.83	757.7	47.1	8.4		w.			6		5						
Lodingen	29.78	756.5	29.83	757.7	56.3	13.5	56	calm			0		2			0	0		
PORTUGUESE.																			
Angra, Azores	30.14	765.6	30.30	769.6	64.4	18.0	96	se.	10.5	4.7			7			2.284	58.0		Dr. J. A. Sampaio.
Campo Major	29.68	738.7	30.04	763.0	81.5	27.5	26	nne	2.5	1.1			3			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.17	766.2	30.25	768.4	69.1	20.6	62	sw.	4.3	1.9			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.79	756.7	30.12	765.0	69.4	20.8	49	n.	19.9	8.9			1			0	0		The Staff.
Ponta Delgada, Azores	30.27	768.9	30.34	770.7	70.9	21.6	80	se.	4.3	1.9			3			0	0		
Saint Paul de Loanda	29.78	756.4	29.98	761.6	72.5	22.5	87	wnw.			2		8			0	0		
San Salvador	28.21	716.5	30.08	764.0	68.5	20.3	82	s.			2		10			0	0		
Serra da Estrella	25.40	645.2	30.07	763.7	56.7	13.7	62	nne.	3.8	1.7			3			0	0		
RUSSIAN.																			
Akmolinski	28.50	723.9	29.51	749.6	74.8	23.8	47	nne.	28	8		0	5 k			0	0		Major K. Lasarew.
Archangel	29.84	757.8	29.85	758.3	69.8	21.0	47	nw.	9	4		0	4 ks			0.118	3.0		Capt. Sseliwerstow
Ashurada	29.88	759.0	29.79	756.6	82.2	27.9	70	nw.	13	6		7 ck	0			0	0		
Astrakhan	29.85	758.2	29.77	756.1	78.6	25.9	58	sw.	27	12			10ks;n			0	0		Capt. Wisganow.
Baku	29.84	758.0	29.80	756.8	81.5	27.5	51	n.	13	6		1 cs	0			0	0		
Barnaul	28.95	735.2	29.42	747.2	70.7	21.5	54	w.	18	8			10			0.322	8.2		Meteorological Obs'y
Bielosersk	29.39	746.5	29.82	757.5	85.8	29.9	44	sse.	2	1		0	4 k			0	0		
Dorpat	29.52	749.8	29.75	755.6	73.8	23.2	70	se.	2	1			9 k			0.071	1.8		Observatory.
Ekaterinburg	29.01	736.8	29.93	760.1	73.6	23.1	39	n.	9	4		1 c	0			0	0		Meteorological Obs'y
Elisawetgrad	29.33	745.0	29.75	755.7	83.5	28.6	40	w.	2	1		0	5 ks			0	0		
Irkutsk	28.19	716.1	29.78	756.5	61.3	16.3	56	calm			0		9			0	0		
Kasalinsk	29.35	745.5	29.53	750.0	99.0	37.2	45	n.	2	1		10 c	0						
Kasan	29.65	753.0	29.89	759.3	82.2	27.9	24	ese.	4	2		0	0			0	0		Observatory.
Kem	29.78	756.3	29.83	757.6	72.0	22.2	47	ne.	9	4		8 cs	0			0.248	6.3		
Kertch	29.79	756.6	29.81	757.2	80.6	27.0	40	calm	0	0		0	3 k			0	0		Lagorio & Sastyrea.
Kieff	29.08	738.6	29.67	753.5	83.3	28.5	41	se.	4	2		0	6 k;ks			0.524	13.3		Observatory.
Koslov	29.25	742.9	29.76	755.9	79.0	26.1	63	ene.	11	5		0	4 k			blank	blank		
Libau	29.77	756.1	29.79	756.7	60.6	15.9	65	nw.	13	6			10			0	0		E. Quaas.
Lugan	29.45	748.1	29.63	752.6	79.9	26.6	48	wnw.	9	4			4			inap.	inap.		Meteorological Obs'y.
Moscow	29.34	745.2	29.78	756.3	82.4	28.0	38	ene.	8.9	4.0		0	5 k			0	0		Meteorological Obs'y
Nikolaiev	29.74	755.3	29.81	757.2	86.9	30.5	41	wsw.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.41	747.1	29.50	749.3	44.1	6.7	88	calm	0	0			10			0.039	1.0		Iwanow.
Pekin, China	29.65	753.1	29.79	756.7	81.0	27.2	32	calm	0	0		0	4 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.33	745.0	29.65	753.2	97.7	36.5	12	nne.	3.4	1.5		0	8 ks			0	0		
Petrozavodsk	29.61	752.1	29.80	756.9	68.7	20.4	82	e.	9	4		8 ck	0			0.492	12.5		Dr. Bergmann.
Pinsk	29.19	741.3	29.66	753.4	67.1	19.5	83	e.	18	8		0	7 n			1.095	27.8	raining	
Poti	29.83	757.7	29.86	758.5	78.3	25.7	68	nw.	4	2		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mts. p. sec	Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.			0-10	0-10	0-10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
St. Petersburg	29.74	755.3	29.76	755.9	81.5	27.5	50	sse.	7	3		0	4k;kn			0	0		Central Physical Obs'y.
Samarkand	27.26	693.0	29.52	749.7	91.4	33.0	31	se.	3.4	1.5		0	0			0	0		
Semipalatinsk	28.81	731.7	29.41	747.0	84.0	28.9	22	nw.	4	2			5			0	0		Major Lasarew
Sevastopol	29.63	752.7	29.85	758.1	84.0	28.9	38	wsw.	20	9		0	0			0	0		
Staroi Bykhov	29.35	745.4	29.78	756.3	80.2	26.8	60	se.	4	2		ck	6 n			0	0		
Tashkend	28.00	711.3	29.52	749.7	95.0	35.0	30	calm	0	0		0	1 s			0	0		Terch, A. M.
Tiflis	28.41	721.6	29.73	755.2	87.6	30.9	17	nw.	9	4		0	1 k			0	0		Physical Observatory.
Vernoe	27.13	689.2	29.45	748.0	84.4	29.1	49	se.	2	1		2 c	0			0	0		
Viatka																			
Warsaw	29.25	743.0	29.66	753.4	68.0	20.0	66	e.	7	3			9 k			0.606	15.4	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.37	746.0	29.65	753.1	59.7	15.4	63	ese.	11	5			8			0.004	0.1		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.81	757.2	50	10.0	93	se.			4		10			0.2	5.	raining	J. Youngclause
North Unst			29.93	760.2				e			3	3	1	e.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Ons'y	29.92	760.0	30.02	762.6	68.9	20.5	56	se.	2.5	1.1		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.23	767.8	30.29	769.3	61.9	16.6	77	nw.	5.4	2.4			10			0.181	4.6	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.17	690.2	30.11	764.9	60.1	15.6	44	n.	3.8	1.7		0	3			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.8	30.03	762.8	71.2	21.8	33	e.	6.3	2.8		0	4			0	0		The Staff.
Murcia, Met. Obs'y	29.89	759.2	30.03	762.8	80.2	26.8	41	wnw.	4.0	1.8		3	2	ese.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.42	747.3	30.18	766.6	56.8	13.8	92	e.	9.8	4.4		6 kn	8 n	w.	e.	0	0	cloudy.	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.29	743.9	30.18	766.5	62.8	17.1	51	n.	11.9	5.3			5			0	0	cloudy..	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	761.0	30.03	762.7	79.0	26.1	78	e.	4.5	2.0		c;cs	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.7	29.89	759.2	81.3	27.4	79	ene.	6.6	3.0		1 ck	1 k	ene.		0.012	0.3	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.1	30.06	763.6	78.6	25.8	56	w.	9.4	4.2		1	1	nw.	nw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.98	761.5	30.07	763.8	80.2	26.8	94	s.	5.8	2.6		1 s	3 k	s.	s.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.79	756.6	29.83	757.6	60.8	16.0	64	s.			4		5			0	0		
Umea	29.76	755.8	29.81	757.1	66.6	19.2	35	sw.			4		3			0	0		
Hernosand	29.74	755.5	29.80	756.8	58.6	14.8	56	s.			2		10			0	0		
Stockholm	29.65	753.0	29.82	757.5	66.2	19.0	40	w.			2		9			0	0		
Wisby	29.78	756.4	29.84	757.9	59.7	15.4	72	nw.			2		5			0	0		
Sub-series.																			
Upsala	29.71	754.7	29.80	756.9	66.0	18.9	48	wsw.	8.5	3.8			7	wsw.	sw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.52	724.3	29.93	760.1	59.0	15.0	45	n.			3		7			0	0	cloudy	The Observatory.
TURKISH.																			
Constantinople			29.85	758.2	83.8	28.8	55	s.	7	3.0			0			0	0		The Observatory.
Valona			30.06	763.6	81.7	27.6		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.79	756.6	83.8	28.8	61	w.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.61	675.9			76	24.4	66									0	0	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.70	754.4	29.78	756.4	64	17.8	90	s.	12	5.4			10 s		w.;s.	0.75	19.0	cloudy	J. O. Barnes.
Alpena, Michigan	28.93	734.8	29.58	751.3	62	16.7	84	w.	12	5.4			10 s		w.	0.55	14.0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.82	757.4	51	10.6	47	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.06	687.3	29.85	758.2	55	12.8	74	s.	8	3.6		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.87	733.3	30.02	762.5	77.0	25.0	84	sw.	8	3.6		1 c	2 s	w.	n.	0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	29.80	756.9	29.81	757.2	66	18.9	93	se.	15	6.7			10 s			0.50	12.7	cloudy	Jas. M. Watson.
Augusta, Georgia	29.81	757.2	30.00	762.0	79.0	26.1	74	calm	0	0		2 ck	0	w.		0	0	clear	John Healy.
Baltimore, Maryland	29.76	755.9	29.81	757.2	74	23.3	76	nw.	1	0.4		7 cs	0	w.		0.30	7.6	fair	Geo. W. Felger.
Barnegat City, New Jersey	29.80	756.9	29.82	757.4	64.0	17.8	97	sw.	13	5.8		0	8 k		w.	0.32	8.1	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.37	746.0	29.39	746.5	40.3	4.6	95	se.	6	2.7			10 n			0.20	5.1	light rain	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.47	723.1	30.01	762.2	54.0	12.2	93	calm	0	0		0	1 k		nw.	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.14	689.3	29.91	759.7	65	18.3	70	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.71	678.4	29.85	758.2	55	12.8	69	calm	0	0		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.23	717.0	29.99	761.7	55	12.8	74	nw.	4	1.8		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.87	758.7	29.90	759.4	63	17.2	100	se.	16	7.2			10s;fg		sw.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.15	689.6	29.93	760.2	54.5	12.5		sw.	2	0.9		0	0			inap.	inap.	clear	J. Kenealy.
Boston, Massachusetts	29.73	755.1	29.88	758.9	64.0	17.8	93	s.	8	3.6			10 s			0.03	0.8	cloudy	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.97	761.2	82.5	28.1	80	se.	4	1.8		0	2 ks			0	0	clear	E. C. Imlay.
Buffalo, New York	28.98	736.1	29.72	754.9	61.3	16.3	87	sw.	24	10.7		4 ck	2 ks	sw.	sw.	0.83	21.1	fair	W. Finn.
Buford, Fort, Dakota	28.04	712.2	30.00	762.0	54	12.2	74	ne.	10	4.5		4 cs	0	w.		0	0	fair	A. Schneider.
Burlington, Vermont																			D. N. Farnell.
Cairo, Illinois	29.63	752.6	30.02	762.5	75.8	24.3	82	nw.	3	1.3		4 c	0	w.		0	0	fair	W. H. Ray.
Cape Henry, Virginia	29.82	757.4	29.84	757.9	79.0	26.1	77	sw.	12	5.4		4 cs	0			0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.78	756.4	29.81	757.2	67.0	19.4	93	se.	10	4.5		0	7 s		s.	0.26	6.6	fair	W. E. Smith.
Cape Mendocino, California	29.32	744.7	30.00	762.0	47	8.3	100	nw.			2		fg		nw.	0	0	light fog	J. J. McLean.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	82	27.8	79	nw.	3	1.3		1 ck	0	s.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.93	760.2	29.98	761.5	83	28.3	74	sw.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.09	738.9	29.92	760.0	81.0	27.2	58	sw.	5	2.2		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.01	762.2	80.0	26.7	79	sw.	3	1.3		5 k	0	w.		inap.	inap.	fair	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	29.92	760.0	54.3	12.4	77	sw.	4	1.8		0	0			0.11	2.8	clear	E. McGovern.
Chicago, Illinois	29.14	740.1	29.83	757.7	67.5	19.7	75	w.	11	4.9		hz.	0			0	0	clear	John Laurens.
Chincoteague, Virginia	29.81	757.2	29.83	757.7	71	21.7	100	s.	10	4.5		0	5 s;fg		sw.	0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.28	743.7	29.93	760.2	73.0	22.8	71	w.	4	1.8		0	0			0.20	5.1	clear	L. Dunne.
Cleveland, Ohio	29.07	738.4	29.80	756.9	68.5	20.3	75	sw.	14	6.3		2 c	0	w.		0.90	22.9	clear	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.00	762.0	72	22.2	82	s.	1	0.4		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.03	737.3	29.87	758.7	70	21.1	84	sw.	10	4.5		0	0			0.07	1.8	clear	D. Cuthbertson.
Concho, Fort, Texas	28.10	713.7	29.97	761.2	73.8	23.2	69	s.	3	1.3		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.28	743.7	29.92	760.0	66	18.9	73	w.	7	3.1		0	hz.			inap.	inap.	clear	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.85	758.2	68	20.0	59	sw.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.18	715.8	29.92	760.0	63	17.2	30	sw.	8	3.6		2 k	0	sw.		0	0	clear	D. Moore.
Deadwood, Dakota	25.40	645.1	29.84	757.9	51	10.6	69	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	29.81	757.2	29.83	757.7	67	19.4	93	s.	13	5.8			9 s		s.	0.70	19.3	cloudy	T. S. Townsend.
Denver, Colorado	24.86	631.4	29.90	759.4	60.0	15.6	67	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.13	739.9	30.01	762.2	62	16.7	84	nw.	3	1.3		0	0			0.20	5.1	clear	F. W. Conrad.
Detroit, Michigan	29.04	737.6	29.73	755.1	68.0	20.0	84	sw.	13	5.8		3 cs	0			0.48	12.2	clear	E. R. Brace.
Dodge City, Kansas	27.47	697.7	29.98	761.5	64	17.8	90	s.	5	2.2		0	5 ks		nw.	0.03	0.8	fair	D. J. Carr.
Dubuque, Iowa	29.20	741.7	29.89	759.2	61.8	16.6	70	w.	8	3.6		0	hz.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	28.99	736.3	29.72	754.9	59	15.0	70	nw.	6	2.7		0	7 k		nw.	0.03	0.8	fair	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho																			H. R. Boynton.
Eastport, Maine	29.96	761.0	30.03	762.7	50.0	10.0	86	s.	8	3.6			10 s		sw.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.34	694.4	30.01	762.2	63	17.2	87	s.	12	5.4		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.28	667.5	29.87	758.7	69.0	20.6	57	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.05	737.9	29.77	756.1	68	20.0	73	sw.	10	4.5		0	0			0.30	7.6	clear	C. A. Shaw.
Escanaba, Michigan	28.94	735.1	29.59	751.6	62.5	16.9	68	w.	13	5.8		hz.	hz.			0.04	1.0	dense haze.	George Heathcote.
Galveston, Texas	30.01	762.2	30.05	763.3	82.5	28.1	80	s.	4	1.8		0	7 ks		s.	0.04	1.0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.09	738.9	29.74	755.4	60.0	15.6	81	w.	19	8.5		5 ck	2 s	w.		0	0	fair	J. E. Mueller.
Grant, Fort, Arizona	25.26	641.6	29.80	756.9	70.9	21.6	35	e.	8	3.6		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.90	759.4	29.92	760.0	78	25.6	90	sw.	16	7.2		0	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	25.76	654.3	29.88	758.9	55	12.8	64	sw.	8	3.6		4 k	0			0	0	fair	H. W. Dodge.

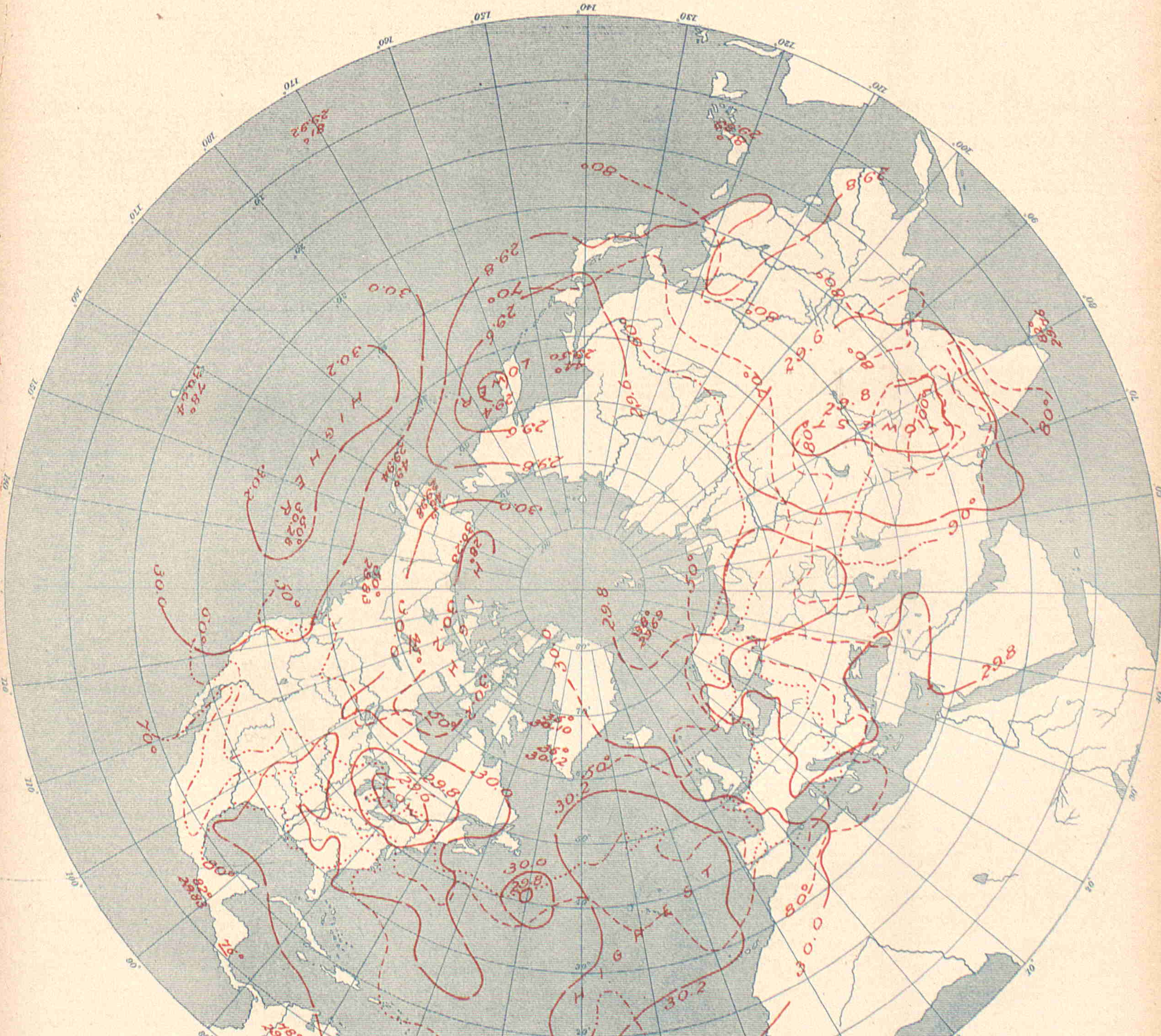
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.67	728.2	30.01	762.2	55.2	12.9	76	nw.	3	1.3		0	0			0.03	0.8	clear	S. W. Glenn.
Indianapolis, Indiana	29.10	739.1	29.88	758.9	71.8	22.1	71	w.	3	1.3		0	0			inap.	inap.	clear	C. F. R. Wappenhans.
Indianola, Texas	29.99	761.7	30.02	762.5	80.2	26.8	89	s.	4	1.8		0	3 ks			inap.	inap.	clear	I. A. Reed.
Jacksonville Florida	30.01	762.2	30.05	763.3	83.0	28.3	72	sw.	5	2.2		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.34	745.2	29.98	761.5	69.0	20.6	76	w.	1	0.4		0	0			0.10	2.5	clear	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	82.0	27.8	74	se.	1	0.4		0	4 ks		se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.90	759.4	29.92	760.0	78	25.6	82	sw.	15	6.7		1 k	0	sw.		0.12	3.0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	28.98	736.1	29.99	761.7	76.3	24.6	83	sw.	4	1.8		3 c	3 ks		sw.	0.06	1.5	fair	J. A. Cody.
La Crosse, Wisconsin	29.03	737.3	29.79	756.7	64	17.8	75	w.	8	3.6		0	0			0.06	1.5	clear	S. C. Emery.
Leavenworth, Kansas	29.19	741.4	30.06	763.5	69	20.6	84	nw.	4	1.8		3 k	0	w.		0	0	clear	A. W. Browne.
Lewiston, Idaho	29.05	737.9	29.87	758.7	60.5	15.8	60	calm	0	0		0	3 s		w.	0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.68	753.9	29.99	761.7	75	23.9	90	calm	0	0		0	7 s			0.02	0.5	fair	W. U. Simons.
Los Angeles, California	29.59	751.6	29.98	761.5	62	17.2	87	s.	2	0.9			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.38	746.2	29.93	760 2	75	23.9	70	w.	5	2.2		8 c	0			0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.15	740.4	29.82	757.4	81	27.2	62	w.	3	1.3		5 c	0	w.		0	0	fair	Louis Duane.
Mackinaw City, Michigan	28.90	734.0	29.54	750.3	58.0	14.4	86	w	19	8.5			10 s		w.	0.28	7.1	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.93	760.2	29.94	760.5	77.0	25.0	90	sw.	11	4.9		1 cs	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.54	648.7	29.87	758.7	60	15.6	46	se.	2	0.9		10 k	0			0	0	cloudy	F. Burke.
Marquette, Michigan	28.84	732.5	29.56	750.8	61	16.1	65	w.	14	6.3		0	0			0.16	4.1	clear	J. Gilligan.
Memphis, Tennessee	29.67	753.6	30.00	762.0	76	24.4	90	calm	0	0		10 c	0			0.03	0.8	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.04	737.6	29.78	756.4	65	18.3	68	w.	15	6.7		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.03	762.7	30.07	763.8	77.3	25.2	83	w.	3	1.3		5 ck	4 ks	nw.		0.45	11.4	cloudy	C. A. Read.
Montgomery, Alabama	29.76	755.9	29.99	761.7	78.3	25.7	88	w.	6	2.7		0	4 k		w.	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.97	735.8	29.94	760.5	50	10.0	77	nw.	12	5.4		0	0			0	0	clear	H. White.
Mt. Washington, N. H.	23.73	602.7	29.85	758.2	44.0	6.7	100	s.	60	26.8			10n;fg		s.	0.59	15.0	light rain	S. W. Beall.
Nashville, Tennessee	29.41	747.0	29.97	761.2	75.0	23.9	83	w.	2	0.9		6 c	0	w.		0.09	2.3	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.73	755.1	29.84	757.9	64	17.8	100	s.	7	3.1			10n;fg			0.59	15.0	light rain	J. H. Sherman.
New London, Connecticut	29.83	757.7	29.88	758.9	62	16.7	100	s.	6	2.7			10 n		se.	0.22	5.6	light rain	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.06	763.5	81.3	27.4	82	sw.	3	1.3		3 ck	5 s			0.65	16.5	cloudy	M. Herman.
New York, New York	29.66	753.4	29.83	757.7	66	18.9	100	e.	7	3.1			10s;fg			1.20	30.5	cloudy	G. E. Franklin.
Norfolk, Virginia	29.81	757.2	29.84	757.9	81.3	27.4	79	sw.	8	3.6		3 cs	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.18	690.4	29.98	761.5	62.6	17.0	88	calm	0	0		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.98	761.5	30.02	762.5	47.0	8.3	68	sw.	2	0.9		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.90	734.0	30.04	763.0	68.0	20.0	73	calm	0	0		0	0			0.03	0.8	clear	A. Pollak.
Ooglaamie, Alaska	30.21	767.3	30.23	767.8	27.8	— 2.3	100	ene.	16	7.2			10 s			inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.36	745.7	29.68	753.9	68.5	20.3	75	sw.	9	4.0			10 ks		w.	1.40	35.6	cloudy	J. G. Linsley.
Palestine, Texas	29.56	750.8	30.10	764.5	79.0	26.1	88	calm	0	0		0	3 s			0	0	clear	J. W. Byram.
Pensacola, Florida	30.03	762.7	30.06	763.5	81.0	27.2	81	sw.	3	1.3		1 c	2 ks	nw.		0	0	clear	M. McGauran.
Philadelphia, Pa	29.73	755.1	29.83	757.7	70	21.1	100	e.	2	0.9			10s;fg		s.	1.51	38.4	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.10	459.7	29.92	760.0	33	0.6	78	sw.	24	10.7		0	0			0	0	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.05	737.9	29.84	757.9	70.0	21.1	77	w.	6	2.7		0	0			1.23	31.2	clear	W. A. Reid.
Poplar River, Montana	27.81	706.4	29.91	759.7				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	28.99	736.3	29.66	753.4	67.0	19.4	78	w.	16	7.2		7 cs	0	w.		0.23	5.8	fair	M. H. Perry
Portland, Maine	29.84	757.9	29.90	759.4	61.0	16.1	87	s.	13	5.8			10 n		se.	0.63	16.0	heavy rain	W. W. Eichelberger
Portland, Oregon	29.97	761.2	30.04	763.0	53.2	11.8	80	n.	5	2.2		3 k	0	n.		0	0	clear	M. L. Hearne.
Portsmouth, N. C.					80	26.7	79	sw.	14	6.3		0	hz.			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.81	630.2	29.83	757.7	52.2	11.2	38	s.	3	1.3		0	1 s.			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.89	759.2	29.92	760.0	64.5	18.1	84	s.	19	8.5			10s;fg		s.	inap.	inap.	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.55	750.6	29.90	759.4	67	19.4	55	se.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.52	749.8	30.07	763.8	45.8	7.7	83	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.85	758.2	29.92	760.0	59.0	15.0	75	s.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.42	747.3	30.01	762.2	71.7	22.1	79	w.	8	3.6		5 c	0	w.		0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.94	760.5	29.98	761.5	46	7.8	83	n.	1	0.4		0	6 s		n.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	28.99	736.3	29.83	757.7	59.0	15.0	65	nw.	15	6.7		1 cs	0			inap.	inap.	clear	P. F. Lyons.
St. Vincent, Minnesota	29.07	738.4	29.92	760.0	52	11.1	93	nw.	9	4.0		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.62	650.7	29.84	757.9	68	20.0	40	w.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.88	758.9	29.95	760.7	61.6	16.4	87	ne.	3	1.3			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.79	756.7	29.82	757.4	65.0	18.3	93	se.	16	7.2			10 s		se.	2.06	52.3	cloudy	B. A. Blundon.
Sanford, Florida	29.99	761.7			80.5	26.9	87	calm	0	0		0	fg.			0.03	0.8	clear	J. B. Marbury.
San Francisco, California	29.93	760.2	30.00	762.0	55	12.8	90	sw.	6	2.7			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	84	28.9	72	sw.	6	2.7		0	hz.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.27	667.2	29.84	757.9	49	9.4	71	w.	1	0.4		6 k	0	w.		0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	79.5	26.4	86	sw.	5	2.2			9 ks		sw.	0	0	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.89	733.8	30.09	764.3	73	22.8	71	se.	12	5.4		0	7 ks		ne.	0	0	fair	W. M. Mattingly.
Sitka, Alaska	29.77	756.1	29.83	757.7	50	10.0	86	e.	3	1.3			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.56	750.8	30.02	762.5	70.0	21.1	90	n	4	1.8			10 s		n.	0.09	2.3	cloudy	J. B. Campbell.
Smithville North Carolina	29.91	759.7	29.95	760.7	79.0	26.1	79	w.	13	5.8		1 c	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.87	707.9	29.91	759.7	53	11.7	74	sw.	1	0.4		3 c	0	w.		0	0	clear	John F. Hemenway.
Springfield, Illinois	29.30	744.2	29.97	761.2	67	19.4	78	nw.	9	4.0		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	26.99	685.5	29.91	759.7	67	19.4	84	sw.	1	0.4		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	27.20	690.9	29.83	757.7	62	16.7	48	calm			0	3 cs	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.09	738.9	29.77	756.1	72	22.2	71	sw.	12	5.4		6 cs	0	sw.		inap.	inap.	fair	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.92	760.0	29.94	760.5	49	9.4	71	w.	4	1.8		0	0.			0	0	clear	Samuel Applegate.
Verde, Fort, Arizona					60	15.6	35	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.81	757.2	30.06	763.5	78.0	25.6	90	sw.	5	2.2		0	3 s		sw.	0.03	0.8	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.72	754.9	29.82	757.4	74.7	23.7	84	sw.	2	0.9		5 c	0	nw.		0.20	5.1	fair	B. M. Purssell.
West Las Animas, Colorado	26.16	664.5	29.94	760.5	63.4	17.4	64	e.	4	1.8			10 s		e.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.90	759.4	29.95	760.7	79.0	26.1	77	w.	9	4.0		2 c	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.77	730.7	30.05	763.3	64	17.8	73	nw.	7	3.1		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.59	751.6	29.73	755.1	73.9	23.3	68	calm	0	0		2 c	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia			30.01	762.2	77	25.0	86	calm	0	0		5 c	5 s	sw.	e.	1.17	29.7	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.06	763 5	78	25.6	86	se.			2	3 c	2 s	e.		0.400	10.2		Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.6	89	calm			0	0	7 ks		calm	0.07	1.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	740.2	29.94	760.5	78	25.6	90	sw.	5	2.2		0	3 s		sw.	0.03	0.8	clear	Francisco J. Olsneros.
Rivas, Nicaragua, C. A.					70	24.4	92	nnw.			1		9 ks		ne.	0.04	1.0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallce
York Factory, B. A.	30.22	767.6	30.28	769.1	52.0	11.1	93	w.	7	3.1		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 45° 39′, E. 13° 45′	29.73	755.1	67	19.4	84	wsw.			1		8	wsw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.99	761.7	75	23.9	75	nne.			2		3	nne.						d. clouds.
H. M. S. Gannet, N. 34° 35′, W. 17° 00′	30.23	767.8	65	18.3	78	nne.			4		9					4	ne.	d. clouds.
S. S. Himalaya, N. 36° 66′, E. 0° 40′	30.06	763.5	70	21.1	70	calm			0		1							blue sky.
H. M. S. Minotaur, Arosa Bay, Spain	30.21	767.3	64.5	18.1	60	nne.			2		4					1	wnw.	d. clouds
H. M. S. Opal, Sierra Leone, Africa	29.96	761.0	84	28.9	79	calm			0		0							blue sky.
H. M. S. Superb, N. 44° 31′, E. 13° 58′*	29.87	758.7	70	21.1	66	sw.			5		5	wsw.				4	sw.	d. clouds.
H. M. S. Thetis, N. 34° 54′, W. 16° 35′	30.26	768.6	65	18.3	73	nne.			4		10					2	nne.	overcast.
H. M. S. Tenedos, Saint Pierei, N. F	30.11	764.8	52	11.1	93	sse.			1		0							foggy
U. S. Navy Yard, Portsmouth, N. H*	29.86	758.4	58	14.4	94	se.	4	1.8			10		se.	0.02	0.5			raining.
U. S. S. Constellation, N. 38° 27′, W. 76° 24′*	29.83	757.7	75	23.9	95	sse.			2		2		calm			sm'h		clear.
U. S. S. Lancaster, Kronstadt, Russia	29.86	758.4	74	23.3	95	e.			2		5		calm			sm'h		fair.
U. S. S. Nipsic, N. 40° 28′ W. 61° 48′*	30.04	763.0	71	21.7	71	e.			1		2		e.			sm'h		fair.
U. S. S. Portsmouth, off Conimicut, R. I.	29.95	760.7	64	17.8	100	s.			3		10							overcast.
U. S. S. Powhatan, Port Royal, S. C	29.96	761.0	82	27.8	87	sw.			2		2							clear.
U. S. S. Quinnebaug, Gaboon river, Guinea	29.99	761.7	79	26.1	78	sw.			2		5		sw.			sm'h		fair.
U. S. S. Saratoga, Newport, R. I.	29.94	760.5	66	18.9	94	sse.			3		10		sse.	light	light			misty.
U. S. S. Vandalia, N. 18° 45′, W. 72° 39′	30.03	762.7	80	26.7	78	ene.			5		8		e.			sm'h		fair.
U. S. S. Yantic, N. 45° 02′, W. 55° 59′	30.21	767.3	49	9.4	92	e.			1		10					sm'h		foggy.
Cottica, N. 14° 14′, W. 56° 40′	30.10	764.5	82	27.8	73	ene.			4		2							blue sky.
May Hulse, N. 6° 48′, W. 25° 30′	30.01	762.2	83	28.3	71	calm			0		6							d. clouds.
H. P. M. S. Rio Lima, N. 19° 19′, W. 20° 06′	30.07	763.8	73.4	23.0	88	ne.			5		0					4		blue sky
S. S. British Crown, N. 45° 26′, W. 43° 46′†	30.11	764.8	70	21.1		se.			4		8		se.			mod.	ese.	misty.
S. S. British Prince, N. 44° 45′, W. 45° 42′†	30.01	762.2	73	22.8		se.			5		9		ese.	6 h'r	6 h'r	r'gh	con.	cloudy.
S. S. Illinois, N. 51° 06′, W. 12° 53′	30.14	765.5	55	12.8		wnw.			6		10		nw.			mod.	nw.	overcast.
S. S. Lord Clive, N. 39° 38′, W. 61° 32′						ene.			2		0			0	0	mod.	ene.	fine.
S. S. Ohio, Liverpool, Eng†	29.89	759.2	55	12.8		wnw.			5		5		ne.	0	0			
S. S Pennsylvania, Philadelphia, Pa†	29.81	757.2	74	23.3		e.			4		10			0	0			overcast.
S. S. British Princess, N. 40° 26′, W. 67° 28′			62	16.7		ese.			3		5		ssw.	0	0	sm'h	e.	hazy.
S. S. Scandinavian, Boston, Mass	29.87	758.7	63	17.2		sse.			3		9							d. clouds.
S. S. Grecian, Quebec, Canada	29.69	754.1	68	20.0	90	se.			1		10			12 h'r	12 h'r			overcast
S. S. Nova Scotian, off Smith's Point, Chesapeake Bay	29.89	759.2	80	26.7		ese.			2		0					sm'h		clear.
S. S. Polynesian, N. 52° 19′, W. 35° 01′	30.37	771.4	58	14.4		sse.			3		10		sw.	0	0	sm'h	s.	dense fog.
S. S. Prussian, N. 51° 30′, W. 29° 49′	30.38	771.6	60	15.6		wnw.			2		3		wnw.	0	0	mod.	sw.	clear.
S. S. Manitoban. N. 52° 15′, W. 26° 39′			59	15.0	88	n.			3		4		n.	0	0	sm'h		fine.
S. S. Alvo, Aguadilla, Porto Rico, W. I*	30.07	763.8	73	25.6		ne.			2–3		6		calm	3 h'r	3 h'r	long	n	cloudy.
S. S. Alene, Colon, U. S. C†	29.96	761.0				calm			0					0	0	sm'h		fine.
S. S. Anchoria, N. 50° 25′, W. 37° 34′†	30.40	772.1				ssw.			3		fg.		ssw.	2 h'r	2 h'r	sm'h		foggy.
S. S. Dorian, N. 41° 50′, W. 9° 40′			70	21.1		n.			4		0			0	0	mod.	n.	clear.
S. S. Devonia, N. 54° 14′, W. 18° 40′*†	30.24	768.1	53	11.7		nnw.			5		9		nnw.			mod.	nw.	cloudy.
S. S. Furnesia, N. 45° 02′, W. 40° 09†	30.17	766.3	67	19.4	95	ese.			3		5		e.	0	0	mod.	ssw.	fair.
S. S. Corroll, Port Hawkesbury, C. B *†	30.22	767.6	62	16.7	77	se.			2		8		se.	rain	rain			fine.
S. S. Llandaff City, Bristol, Eng †			58	14.4		w.			2		8		nw.	shr's	shr's			cloudy.
S. S. Colina, N. 52° 54′, W. 30° 42′†	30.36	771.1				ssw.			1		2		wsw.	0	0	mod.	wsw.	clear.
S. S. Canada, N. 48° 34′, W 22° 54′			57.2	14.0		n.			4	ck	0	n.		0	0	sm'h	n.	cloudy.
S. S. Arizona, N. 50° 03′, W. 29° 22′	30.38	771.6	57	13.9		ssw.			2		3		sw.	0	0	sm'h		clear.
S. S. Wyoming, N. 48° 49′, W. 27° 38′	30.51	774.9	66	18.9		sse.			1		3		ese.	0	0	mod	s.	fair.
S. S. Bohemia, N. 49° 20′, W. 11° 00′ †						wnw.			5		4		wnw.	0	0	long	wnw.	fair.
S. S. Frisia, N. 47° 29′, W. 28° 00′						wsw.			2		0			0	0			clear.
S. S. Gellert, New York, N. Y	29.91	759.7	69	20.6	85	s.			4		10		s.	4 h'r	4 h'r			cloudy.
S. S. Rugia, N. 41° 10′, W. 52° 46′	30.05	763.3	61	16.1		n.			7		10		n.	rain	rain	h'vy	n.	overcast.
S. S. Silesia, Hamburg, Germany	29.89	759.2	64	17.8		wnw.			4		4		nw.	0	0			fair.
S. S. City of Paris, Roches Point, Eng*†	30.00	762.0				w.			1		0			0	0	sm'h		fine.
S. S. Mentmore, N. 39° 10′, W. 63° 55′						sse.			2		8		e.	0	0	sm'h		fine.
S. S. Virginian, N. 50° 19′, W. 21° 58′*	30.34	770.6	63	17.2		wnw.			4		2		nw.	0	0	mod.	nw.	clear.
S. S. Archimedes, N. 45° 06′, W. 36° 24′	30.20	767.1				ese.			3		10		ese.	0	0	light	ese.	overcast.
S. S. Hevelius, N. 51° 26′, W. 3° 30′			64	17.8		nw.			4		7		nw.	1 h'r	1 h'r	sm'h		fair.
S. S. Colorado, Galveston, Texas†	30.08	764.0	80	26.7		se.			1		1		e.	light	light			clear.
S. S. Chalmette, N. 32° 38′, W. 79° 00′†	30.10	764.5	78	25.6		sw.			4		0			0	0	mod.	sw.	clear.
S. S. Lone Star, N. 26° 25′, W. 85° 45′†	30.09	764.3	83	28.3		ese.			2		2		se.	0	0	sm'h		clear.
S. S. City of Merida, N. 35° 00′, W. 74° 19′†	30.11	764.8	81	27.2		sw.			3		2		sw.	0	0	mod.	s.	clear.
S. S. Denmark, New York, N. Y†	29.83	757.7	66	18.9		ese.			2		10		e.	shr's	shr's			misty.
S. S. Egypt, N. 52° 40′, W. 5° 57′	30.05	763.3	56	13.3		wnw.			3		10		w.	0	0	mod.	wnw.	hazy.
S. S. England, N. 40° 55′, W. 58° 23′	30.10	764.5				ene.			2		8		ene.	0	0	mod.	ne.	cloudy.
S. S. Erin, London, Eng	29.92	760.0	56	13.3		sw.			4		6		sw.	0	0			fair.
S. S. Helvetia, New York, N. Y	29.85	758.2	69	20.6	90	se.			1		10			4 h'r	4 h'r			overcast.
S. S. Holland, N. 47° 47′ W. 23° 05′	30.41	772.4	61	16.1		nw			2		5		w.	0	0	sm'h	sw.	fair
S. S. Donau, N. 42° 51′, W. 47° 30′	29.98	761.5				se.			6		8		se.	3 h'r	3 h'r	cross	se.	hazy.
S. S. Elbe, N. 48° 25′, W 29° 01′	30.27	768.8	61	16.1	77	se.			3–4		0			0	0	sm'h	s.	clear.
S. S. Hohenstaufen, N. 49° 58′, W. 6° 03′	30.02	762.5				nw.			3		7		nw.	1 h'r	1 h'r	mod.	nw.	hazy.
S. S. Hermann, Chesapeake Bay	29.83	757.7	73	22.8	85	sse.			4		4		sse.	0	0	mod.	sse.	fair
S. S. Ohio, N. 39° 19′, W. 55° 42′	30.10	764.5				nne.			4		7		nne.	0	0	cross	var.	fair.
S. S. Salier, N. 43° 30′, W. 57° 15′*	30.12	765.0	52	11.1	66	ne.			3		9		se.	0	0	sm'h	e.	misty.
S. S. Werra, N. 43° 19′, W. 46° 09′	29.88	759.0	78	25.6		ssw.			4–5		10		ssw.	0	0	mod.	ssw.	overcast.
S. S. City of Augusta, New York, N. Y†	29.87	758.7				ssw.			3		10		ssw.	0	0			foggy.
S. S. Colon, N. 11° 52′, W. 78° 51′ †	29.87	758.7	83	28.3	83	e.			3		3		e.	0	0	mod.	e.	clear.
S. S. Muriel, Dominica, W. I	30.16	766.1	81	27.2		ene.			2		10		ene.	0	0	sm'h		overcast.
S. S. Orinoco, Bermuda Islands, Atlantic			78	25.6		e.			2		5		e.	0	0			fair.
S. S. Belgenland, N. 48° 35, W. 18° 20′			58	14.4	88	nw.			5		4		ne.	0	0	mod.	var.	fair.
S. S. Nederland, N. 41° 40′ W. 55° 18′			57	13.9		n.			5		10		n.			mod.	ene.	cloudy.
S. S. Rhynland, N. 49° 35′, W. 15° 30′	30.37	771.4	56	13.3	81	nw.			5		4		nw.	0	0	chop	nw.	fair.
S. S. Pennland, Antwerp, Belgium	30.01	762.2	62	16.7	94	n.			3		2		n.	0	0			clear.
S. S. Switzerland, N. 40° 51′, W. 59° 06′†	30.19	766.8				ne.			1		10		ne.	0	0	mod	ene.	cloudy.
S. S. Waesland, Jersey City, N. J			69	20.6		se.			4		10		s.	0.98	24.9			cloudy.
S. S. P. Caland, N. 41° 21′, W. 47° 08′	29.82	757.4	68.9	20.5	95	s.			6		6		wnw.			6	ssw.	fair.
S. S. Schiedam, N. 42° 02′ W. 53° 59′	29.98	761.5	57	13.9	94	nnw.			6		10			3 h'r	3 h'r	r'gh	nne.	hazy.
S. S. W. A Scholten, N. 49° 25′ W. 13° 42′	30.21	767.3	67.0	19.4	89	w.			6		3		wnw.	0	0	3	nw.	clear.
S. S. Belize, Kingston, Jamaica, W. I *†	30.14	765.5	85	29.4		calm			0		0			0	0	sm'h		clear.
S. S. Caracas, N. 39° 52′, W. 73° 45′ †	29.92	760.0	70.5	21.4	92	s.			4				nw.	1½h'r	1½h r	mod.	s.	squally.
S. S. Valencia, N. 14° 53′, W. 68° 25′†	30.16	766.1	83	28.3	79	ese.			6		4		se.	0	0	h'vy	ese.	fair.
S. S. State of Nevada, N. 42° 27′. W 50° 02′†	29.85	758.2	63	17.2		ene.			6		10		sse.	2 h'r	2 h'r	con.	se.	overcast.
S. S. Thingvalla, New York, N. Y †	29.80	756.9	67.1	19.5		ssw.			3		6		ssw.	6 h'r	6 h'r			fair.
S. S. Toledo, N. 33° 42′ E. 21° 34′ *†	30.06	763.5	82	27.8		sw.			1		0			0	0			clear.
S. S. Romano, New York, N. Y †	29.82	757.4	70	21.1					2		10			10 h'r	10 h'r			overcast.
S. S. Oregon, N. 52° 28′, W. 36° 46′			54	12.2		s.			2		9		sw.			mod.	ssw.	foggy.
S. S. Lake Manitoban, Liverpool, Eng	29.93	760.2	63	17.2		nw.			3		2		nw.	0	0			clear.
S. S. Daniel Steinmann, Quebec, Canada†	29.55	750.6	68	20.0		s.			4		0?							rainy?
S. S. Plantyn, N. 40° 50′, W. 64° 23′	29.96	761.0							3		3		sw.			sm'h	sw.	clear.
S. S. Norman, N. 39° 56′, W. 75° 08′	29.88	758.9				sse.			1		10		s.	2 h'r	2 h'r			overcast.
S. S. Saxon, Philadelphia, Pa †	29.84	757.9				calm			0		5					mod.		fair.
S. S. Britannic, N. 48° 07′, W. 37° 40′ †	30.36	771.1	59	15.0		s.			3		10		s.	1 h'r	1 h'r		s.	misty.
S. S Celtic, New York, N. Y †	29.82	757.4	66	18.9		var.			1		10		se.	6 h'r	6 h'r			overcast.
S. S. Iowa. N. 45° 26′, W. 41° 05′†	30.18	766.6	66	18.9		sse.			5		9		sse.	2 h'r	2 h'r	mod.	se.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.10	764.5	70	21.1	78	w.			2		3			0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Abbie H. Gheen, Brooklyn, N. Y.†	29.96	761.0	70	21.1		calm			0									squally.
Bk. Aquidneck, N. 19° 23′, W. 36° 41′ *†	30.20	767.1				ese.			3		0			0	0	light	sse.	clear.
Schr. Anna A. Holton, N. 27° 10′, W. 73° 09′*†	30.10	764.5	82	27.8		n.			2		2		n.	0	0	mod.	n.	clear.
Schr. Author Burton, Boston, Mass.†	29.95	760.7				se.			2		10		se.	5 h'r	5 h'r			stormy.
Bk. Aureola, N. 45° 10′, W. 33° 13†	30.30	769.6	69	20.6		ese.			5		10		ese.	1 h'r	1 h'r	mod.	se.	overcast.
Bk. Arda, Sackville, N. B†	30.20	767.1				wsw.			3		3		wsw.	0	0			clear.
Bk. Alba, N. 39° 15′, W. 72° 41′ *†	29.94	760.5	65.3	18.5		sse.			3					0	0			
Bg. Belle of the Bay, N. 29° 10′, W. 86° 10′†	30.06	763.5				ssw.			2		2		sw.	0	0	sm'h	s.	clear.
Bk. Bayonnaise, N. 33° 15′, W. 18° 52′			67.1	19.5		ene.			4		4		ne.			r'gh	ene.	fine.
Schr. C. R. Flint, Tampico Bar, Mexico†	30.01	762.2	79	26.1		ssw.			1		10		s.	2 h'r	2 h'r	sm'h		cloudy.
Bk. Cato, N. 68° 20′, E. 9° 54′*†	29.90	759.4				nne.			2		2		n.			sm'h	nne.	fair.
S Criterion, N. 40° 06′, W. 66° 25′*†	29.98	761.5				sse.			1		2		ssw.	0	0			clear.
Schr. Clotilde, Tuspan Bar, Mexico*†	29.94	760.5	80	26.7		nw.			1		5		e.	3 h'r	3 h'r	sm'h	e.	squally.
S. S. D. J. Foley, N. 31° 46′, W. 74° 20′*†	30.05	763.3	79	26.1	86	wsw.			3		4		w.	1 h'r	1 h'r	sm'h		fair.
Bkt. David A. Preston, N. 28° 25′, W. 76° 25′						se.			4		2		sw.	0	0	sm'h		
S. E. J. Spicer, N. 42° 44′, W. 60° 30′	30.12	765.0	58	14.4	94	se.			2		10		ese.	0	0	mod.	se.	cloudy.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′			59	15.0		sw.			4		3		sw.	0	0	sm'h		clear.
U. S. Fish Com. S. S. Fish Hawk, Norfolk, Va†	29.90	759.4	77	25.0	95	s.			2		1		calm	0	0			clear.
S. Festina Lente, N. 48° 19′, W. 62° 26′			54	12.2		s.			4		8		sw.	0	0	sm'h		hazy.
Schr. F. E. Waters, N. 29° 00′, W. 75° 32′*†	30.20	767.1				wsw.			1				nw.	0	0	sm'h	n.	fair.
Bgt. George, N. 21° 22′, W. 62° 00′ *†	30.08	764.0	79	26.1		wsw.			2		2			0	0	mod.	sse.	fair.
Bk. Galeon, N. 28° 15′, W. 79° 45′†	30.10	764.5	81	27.2		nw.			2		0			0	0	sm'h	n.	blue sky.
Bk. Heinrich & Tonio, N. 41° 30′. W. 50° 30′†	29.62	752.3	64	17.8		n.			5		10			10 h'r	10 h'r	r'gh	se.	rain & fog.
S Hedwig, N. 39° 24′, E. 18° 44′	29.95	760.7	73.8	23.2	74	wnw.			3		5		nw.	0	0	2	nw.	fine.
Bk. Hattie G. McFarland, N. 36° 52′, W. 74° 00′†	29.96	761.0	77	25.0		ssw.			4		4		w.	0	0	sm'h	e.	fine.
Bk. Harriet S. Jackson, N. 40° 50′, W. 69° 15′*†	30.21	767.3				sse.			3		8		sse.	0	0	light	ese.	light fog.
Schr. Isabel Alberto, N. 30° 20′, W. 80° 57′ †	29.99	761.7				wsw.			2		0			0	0	light	sse.	clear.
Bk. Johanne, N. 44° 59′, W. 49° 33′*†	29.97	761.2	47	8.3		nne.			4		10		se; e.	5 h'r	5 h'r	mod.	se.	dense fog.
Schr. John L. Thomas, Old Providence Island*†	29.98	761.5				e.			2		2		ese.	0	0			clear.
Bg. John Wesley, N. 17° 53′, W. 27° 53′*†	30.00	762.0	79	26.1		ne.			2		0			0	0	mod.	ene.	hazy.
Schr. Jennie N. Huddell, Charleston, S. C.†	29.99	761.7	83	28.3		w.			1		0			0	0			clear.
S. J. W. Gildemeister, N. 27° 07′, W. 36° 25′	30.27	768.8	80.6	27	83	e.			3–4		5 k		e.	0	0	3	ssw.	blue sky.
Bkt. Kryolith, Ivigtut, Greenland *†	30.04	763.0				calm			0		10			0	0			foggy.
Bg. L. & W. Armstrong, N. 22° 06′, W. 58° 19′*†	30.14	765.5				wsw.			3		1		wsw.	0	0	sm'h	se.	clear.
Light House Tender Laurel, Key West, Fla†	30.02	762.5	82	27.8		ese.			1–2		5		e.	1 h'r	1 h'r			fair.
Bk. Louise Adelaide, N. 32° 07′, W. 78° 10′†	30.06	763.5	80	26.7		wsw.			1		4		sw.	0	0	sm'h	e.	fair.
S. S. Madrid, N. 36° 55′, W. 50° 04′†	30.01	762.2	70	21.1	90	w.			4		4		w.	4 h'r	4 h'r	r'gh	var.	fair.
Schr. Minnie A. Bonsall, Haverstraw, N. Y.†	29.85	758.2	72	22.2		sse.			2				s.	2 h'r	2 h'r			cloudy.
Bgt. Myrtle, Mayagnes, Porto Rico, W. I*†	30.15	765.8				e.			2				e.	0	0			fair.
Schr. Maggie Abbott, N. 27° 10′. W. 74° 00′						calm			0		0			0	0	mod.	se.	clear.
Bk. National Eagle, N. 41° 13′, W. 26° 27′	30.57	776.5				se.			4		5		ese.	0	0	mod.	se.	fair.
Bg. O. C. Clary, N. 21° 38′, W. 57° 50′*†	30.05	763.3				sw			3		0					sm'h	ssw.	clear.
Bk. Ottawa, off Kullen, Sweden	29.89	759.2	60	15.6		calm			0		0			0	0	sm'h		clear.
S. Paramita, N. 26° 51′, W. 37° 03′ †	30.25	768.3	81	27.2		ene.			3		1		ene.	0	0	small	nnw.	clear.
S. S. Raleigh, N. 37° 40′, W. 73° 45′ †	29.88	758.9	70	21.1		sse.			3		0			0	0	light	s.	fine.
S. Rudolph, N. 47° 32′, W. 23° 12′			58.0	14.4		wnw.			3		4		nw.	0	0	mod.	var.	fair.
Bg. Rising Sun, Barbadoes, W. I.†	30.11	764.8	86	30.0		e.								0	0			
Bk. Rosino, N. 40° 02′, W. 17° 26′			66	18.9		ne.			5		10		ne.	0	0	r'gh	ne.	cloudy.
Bk. Sunbeam, N. 41° 12′, W. 33° 45′†	30.30	769.6	68	20.0	79	e.			3		8		ese.	0	0	mod.	e.	cloudy.
Bk Southern Belle, N. 23° —′, W. 51° 40′†	30.10	764.5	77	25.0		se.			5		5		se.	5 h'r	5 h'r		n.	fair.
S. Sovereign of the Seas, N. 24° 56′, W. 38° 36′ *†	30.38	771.6	79	26.1	82	e.			2		4		var.	0	0	sm'h	nnw.	fair.
Bg. Teneriffe, N. 39° 25′, W. 71° 24′*	29.87	758.7				sse.			6		5		s.	0	0	mod.	e.	
Bk. Tuck Sing, off Cape San Antonio, Cuba*†	29.97	761.2				e.			3		0			0	0	sm'h		fine.
Schr. Viola Reppard, Gardiner, Me.†	29.97	761.2	68	20.0		s			2		10		s.					rainy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†	30.02	762.5	80	26.7		calm			0		4		sse.	0	0			fair.
Bgt. Sunlight, N. 26° 35′, W. 57° 27′						sw.			7		8		sw.	2 h'r	2 h'r	r'gh	wsw.	heavy rain.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Colonia, Uruguay†	30.10	764.5	52	11.1	98	s.			6–7		8	sw.				5	sse.	squally.
H. M. S. Boadicea, Simon's Bay, Cape Colony, Africa	30.21	767.3	59	15.0		e.			1		0							blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.08	764.0	45	7.2	95	s.			3		6	s.						d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.99	761.7	52	11.1	86	sse.	20	8.9			10		se.	1.15	29.2	mod.	se.	cloudy.
U. S. S. Galena, Montevideo, Uruguay*	29.99	761.7	51	10.6	93	sse.			6		10		se.			r'gh	sse.	rainy.
S Annie M. Law, S. 35° 54′, E. 18° 33′ *†	30.18	766.6	56	13.3		wnw.			1		8		nw.	0	0	long	sw.	threatening.
S. David Stewart, S. 08° 22′, W. 29° 12′†	29.90	759.4				se.			4					0	0	mod.	se.	clear.
S. Wm. McGilvery, S. 39° 59′, W. 57° 47′ *†	30.05	763.3	49	9.4	85	wsw.			3		5		wsw.	0	0	sm'h		
S. S Olbers, Rio de Janeiro, Brazil†	30.17	766.3	76	24.4	73	nne.			2					0	0	sm'h		fine.
Bk. Achille F, S. 33° 30′, W. 46° 30′†	29.72	754.9	67	19.4	95	nnw.			6		10		sw.	8 h'r	8 h'r	long	var.	squally.
Bk. Alpheus Marshall, S. 9° 26′, W. 19° 45′ *†	29.95	760.7				sse.			3		9		ese.	0	0			threatening.
Bk. Ceylon, S. 13° 27′, W. 9° 34′ *†	30.19	766.8	76	24.4	82	ese.			4		4		se.	sq'lls	sq'lls	mod.	se.	squally.
Bk. Gray Eagle, S. 24° 22′, W. 35° 42′ *†	30.10	764.5				nne.			3		1		nne.	0	0	long	e.	clear.
H. P. M. S. Douro, S. 8° 15′, E. 13° 03′	30.02	762.4	76.1	24.5	80	nnw.			1		10			0	0			
H. P. M. S. Duque de Terceira, Lobito, Benguela	29.99	761.7	75.9	24.4	05	w.			2		2			0	0	1		d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.76	755.9	74	23.3	63	nw.			1		0							blue sky.
H. M. S. Champion, East Coast of Borneo	29.70	754.4	80	26.7	96	calm			0		10							overcast.
H. M. S. Espiegle, N. 5° 54′, E. 169° 43′	29.92	760.0	81	27.2	83	se.			3		4							d. clouds.
H. M. S. Flying Fish, N. 37° 34′, E. 121° 26′	29.76	755.9	72	22.2	88	calm			0		0	sw.						d. clouds.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.84	757.9	79.5	26.4	87	ne.			1		10							overcast.
H. M. S. Zephyr, N. 34° 00′, E. 135° 00′	29.79	756.7	77	25.0	95	se.			1		10	s.				1	e.	raining.
H.P. M. S. Tamega, Macao, China	29.89	759.3	84.2	29.0	85	sw.			2		0			2 h'r	2 h'r			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.90	759.4	71	21.7	92	ssw.			6		2		ssw.	0	0			clear.
U. S. S. Adams, Kinisnod, Alaska†	29.79	756.7	49	9.4	93	ese.			1		10					sm'h		cloudy.
U. S. S. Essex, Honolulu, Sandwich Ids	30.04	763.0	78	25.6	65	ne.			2		5		ne.			sm'h		fair.
U. S. S. Hartford, Honolulu, Sandwich Ids*	29.98	761.5	76	24.4	77	ne.			3		2		ne.	light	light	sm'h		clear.
U. S. S. Monocacy, Salee river, Corea	29.71	754.6	69	20.6	95	sw.			2		10		calm					misty.
U. S. S. Palos, Hong Kong, China	29.79	756.7	85	29.4	79	se.			1		2		ssw.					clear.
U. S. S. Richmond, Shanghai, China*	29.67	753.6	83	28.3	87	nw.			1		8		nw.	0.1	3.			cloudy.
S. S. Coptic, N. 35° 08′, E. 139° 42′	29.83	757.7	71.5	21.9	83	ssw.			5		5		ssw.	0	0	sm'h	s.	fair.
S. S. Oceanic, N. 46° 38′, E. 174° 30′	30.37	771.4	45	7.2	92	sw.			5		10		sw.			sm'h	var.	misty.
S. S. Oregon, Portland, Maine†	30.08	764.0	53	11.7	93	calm			0		5		nw.					fair.
S. S. Willametta, Seattle, Wash. Ter.†	30.12	765.0	55	12.8	100	sse.			1		8		s.					rainy.
S. S. Ancon, N. 33° 36′, W. 118° 08′ †	29.96	761.0	62	16.7	88	w.			1		10					light	w.	overcast.
S. S. City of Chester, San Francisco, Cal†	29.94	760.5	52	11.1	86	sw.			2		10							overcast.
S. S. Dakota, Victoria, B. C†	29.96	761.0	53	11.7	80	calm			0		5		wnw.			sm'h		cloudy.
S. S. Queen of the Pacific, San Francisco, Cal.†	29.98	761.5	53	11.7		calm			0		10			0	0			overcast.
S. S. City of New York, N. 15° 52′, W. 159° 40′ †	30.03	762.7	77	25.0	73	e.			4		0			0	0	mod.	se.	clear.
S. S. City of Pekin, N. 44° 28′, W. 143° 20′†	30.28	769.1	50	10.0	86	nw.			5		10		wnw.			mod.	wnw.	showery.
S. S. City of Rio de Janeiro, Hong Kong, China †	29.93	760.2	85	29.4	76	s.			1		0			0	0	sm'h		clear.
S. S. Colima, N. 8° 16′, W. 83° 33 †	29.90	759.4	78	25.6	86	e.			3		7		e.	1.00	40.6	small	sw.	fair.
S. S. Granada, N. 30° 22′, W. 116° 42′ †	29.96	761.0	56	13.3	87	nw.			6		4		nw.	0	0	mod	nw.	fair.
S. S. San Blas, N. 14° 18′, W. 92° 44′*†	30.03	762.7	82	27.8		n.			1		5		nnw.	1 h'r	1 h'r	large	s.	fair.
S. S. San José, N. 24° 35′, W. 112° 32′ †	29.88	758.9	65	18.3		wnw.			1		5		nw.	0	0	long	w.	fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Benledi, Nagasaki, Japan*	29.76	755.9	79	26.1	93	var.			1–2		5		ssw.	0	0	sm'h		fair.
S. S. Radnorshire, N. 32° 30′, E. 128° 40′ *†	29.78	756.4				wsw.			2		4		sw.	4 h'r	4 h'r	light	ssw.	fair.
S. Sacramento, N. 10° 15′, E. 124° 00′ *†	29.96	761.0	84	28.9	64	ne.			3		8		ne.	2 h'r	2 h'r	sm'h		cloudy.
S. St. David, N. 23° 15′ E. 125° 35′*†	29.88	758.9	84	28.9	83	se.			3		2		se.	0	0	sm'h		clear.
Bk. Xenia, Shanghai, China*†	29.94	760.5	85	29.4		wsw.			3		2		nw.	0	0			clear.
H. M. S. Sappho, N. 25° 37′, W. 112° 51′	29.86	758.4	67	19.4	89	nw.			3		2	nw.				5	nw.	d. clouds.
U. S. S. Ranger, San Jose, Guatemala	29.91	759.7	78	25.6	91	ene.			1		8			0.60	15.2	long	s.	cloudy.
S. Henry Failing, Wilmington, Cal †	29.76	755.9	64	17.8		e.			1		8		se.	0	0	sm'h	wnw.	foggy.
S. Grecian, Yokohama, Japan †	29.84	757.9	73	22.8	85	ssw.			6		1		ssw.	0	0			clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			55	12.8	87	calm			0		2	s.						d clouds.
H. M. S. Kingfisher, S. 40° 42′, W. 105° 33′	29.87	758.7	56	13.3		wnw.			3		5					5	wsw.	d. clouds
H. M. S. Nelson, Souva, Feejee Ids, Oceania	29.75	755.6	73	22.8	95	e.			1		10							raining.
U. S. S. Iroquois, Valparaiso, Chili	30.16	766.1	51	10.6	79	ene.			1		2							clear.
U. S. S. Lackawanna, S. 11° 58′, W. 78° 03′*	29.89	759.2	67	19.4	79	sse.			5		10		e.			r'gh	se.	cloudy.
U. S. S. Onward. Callao Peru†	30.10	764.5	63	17.2	83	calm			0		8							cloudy.
U. S. S. Pensacola, Callao, Peru*	29.92	760.0	63	17.2	94	calm	0	0			8		sse.	0	0			cloudy.
U. S. S. Wachusetts, S. 11° 57′, W. 143° 18′	29.97	761.2	80	26.7	87	e.			3		5		ene.			mod.	e.	fair.
S. S. Australia, Sydney, N. S. W	30.10	764.5	54	12.2	93	n.			4		4		n.	0	0			fair.
H. M. S. Lark, S. 7° 19′, E. 155° 31′	29.82	757.4	77.3	25.2	89	ene.			3		9					2	se.	squally.
S. S. City of Sydney, S. 34° 45′, E. 176° 25′ *†	30.40	772.1	60	15.6	82	nnw.			1		0					sm'h		clear.
S. Parker M. Whitmore, S. 30° 02′, W. 110° 15′ *†	30.15	765.8	68	20.0		wnw.			2		8		w.	6 h'r	6 h'r	long	wsw.	cloudy.
S. Storm King, S. 22° 39′, W. 94° 45′ *†	30.30	769.5				se.			4		1		se.	0	0	long	se.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.02	762.5	79	26.1		se.			4		4	se.				3	sse.	d. clouds.
U. S. S. Enterprise, Murundava, Madagascar, Africa*	30.03	762.7	76	24.4	82	sw.			2		2		calm			sm'h		clear.
U. S. S. Juniata, Colombo, Ceylon, India	29.76	755.9	82	27.8	100	w			3		1			mod.	mod.			clear.
S. S. Malabar, N. 11° 57′, E. 83° 12′ *†	29.70	754.4				sw.			2		2		sw.	0	0	mod.	sw.	clear.

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



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 20, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours			30.02	762.4	72.7	22.6	86	s.			1		1			0	0	very fair	Malaterre.
Algiers			30.09	764.2	72.7	22.6	66	ene.			5		0			0	0	clear	Thève.
La Galle			30.08	764.0															Fonfrède.
Tunis			30.10	764.5															Jacques.
Saida			30.01	762.3															Pérès.
Tebessa			30.09	764.2	87.1	30.6	28	wsw.			3		0			0	0	clear	St. Martin.
Geriville					83.3	28.5	9	sw.			8		0			0	0	clear	Forfert.
Laghouat			30.02	762.5	80.6	27.0	25	se.			5		1			0	0	clear	Abraham.
Biskra			30.05	763.2	87.4	30.8	30	se.			1		0			0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			30.07	763.8	51.0	10.6	94	calm	0	0			0			0.181	4.6	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.81	757.2	29.90	759.4	53.0	11.7	91	n.	9	4.0			10			0.05	1.3	showery	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.35	745.5	29.89	759.1	64.0	17.8	77	sw.			5		8			0.220	5.6	thund'rst'm	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.78	731.1	29.54	750.3	52.9	11.6	91		22.4	10.0			10			1.417	36.0	raining	Dr. Wierzbiski
Eperies	28.75	730.2	29.61	752.1	57.6	14.2	82	s.			4		10 s		n.	0.378	9.6		Julius Mikolik.
Gratz	28.65	727.7	29.87	758.6	66.2	19.0	69	nw.			5		7			0.248	6.3		Andreas Rospini.
Hermannstadt	28.41	721.7	29.79	756.6	70.5	21.4	32	w.			5		6			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.61	726.6	29.94	760.5	54.9	12.7	80	wsw.			3		10			0.307	7.8	rainy	The Staff.
Lemberg	28.64	727.4	29.60	751.7	61.0	16.1	64	sw.			5		10			0.059	1.5		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.86	758.4	29.97	761.2	69.8	21.0	76	w.			4		1			0.260	6.6		I. R. Hydrographic Office.
Szathmar	29.30	744.2	29.74	755.5	61.2	16.2	91	w.			5		10			0.008	0.2		Joseph Midlinszky, S. J.
Szegedin	29.57	751.0	29.84	757.9	65.7	18.7	69	sw.			2		8			0.087	2.2		Karl Stancel.
Trieste	29.84	757.8	29 93	760.3	69.4	20.8	70	sw.			1		3			0.268	6.8		Royal Academy.
Vienna	29.18	741.1	29.88	759.0	58.1	14.5	69	w.			3		10			0.992	25.2	raining.	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.99	761.7	30.09	764.3	51.5	10.8	76	ene.	11	4.9			6			0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.70	754.4	29.93	760.2	54.8	12.7	74	ne.	14	6.3			9					overcast	S. Call.
Bidston, Liverpool Obs'y			29.86	758.4	57.6	14.2	67	ese.	13	5.8			10					overcast	John Hartnup.
Bolton, Sharples	29.29	744.0	29.82	757.4	51.9	11.1	93	ene.	12	5.4			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.52	749 8	29.91	759.7	53.2	11.8	80	e.			2		10			0.15	3.8	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	30.06	763.5	30.08	764.0	83.0	28.3	71	ne.			1		3					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	29.77	756.1	29.88	758.9	56.4	13.6	75	s.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	29.77	756.1	29.90	759.4	56.3	13.5	63	s.			3		9			blank	blank	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.60	751.8	29.83	757.7	56.0	13.3	72	wnw.			1		8					d. clouds	The Staff.
Fort Napier, Natal	27.88	708.1	30.10	764.5	69.7	20.9	55	e.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	80.0	26.7	87	e.			1		3					d. clouds	J. W. Smith.
Galway, Queen's College	29.87	758.7	29.90	759.4	56	13.3	75	ne.			3		6			0.02	0.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.94	760.5	30.00	762.0	72.0	22.2	85	e.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.83	757.7	30.03	762.7	53.3	11.8	77	ene.			5		10					threatening	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.71	754.6	29.88	758.9	55.4	13.0	74	sse.			2		10					overcast	The Staff.
Guernsey	29.57	751.1	29.86	758.4	58.0	14.4	76	wsw.			1		7			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.84	757.9	29.88	758.9	54.7	12.6	87	se.	12	5.4			9					d. clouds	The Staff.
Leicester, Museum	29.59	751.6	29.85	758.2	58.2	14.6	63	e.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.06	763.5	30.14	765.5	72.2	22.3	91	ne.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.03	762.7	30.08	764.0	84.2	29.0	64	s.			1		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.33	745.0	29.85	758.2	55.8	13.2	67	ne.			1		10					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.59	751.6	29.82	757 4	56.4	13.6	84	ese.			3		8					showery	The Staff.
Plymouth	29.74	755.4	29.81	757.2	62.0	16.7	66	sw.			3		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.02	762.5	30.12	765.0	51.5	10.8	66						8					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.74	755.4	29.81	757.2	89.0	31.7	41	ne.			2		1					misty	W. H. Lyne.
Sheffield	29.63	752.6	29.91	759.7	53.4	11.9	99	e.			1		10			0.22	5.6	raining	W. F. Cooper.
Silloth Rectory	29.93	760.2	29.96	761.0	55.5	13.1	73	e.			3		6			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	29.80	756.9	29.88	758.9	60	15.6	88	nw.			2		10					raining	W. Newcombe.
Valencia, Observatory	29.96	761.0	29.98	761.5	55.4	13.0	77	n.	19	8.5			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.78	756.4	30.17	766.3	75.2	24.0	44	nw.	6.2	2.8						0	0	clear	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.					62.0	16.7		sw.	12	5.4			10 n			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.01	762.2	30.05	763.3	59	15.0	94	se.	8	3.6			10 n		s.	0.013	0.4	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.89	759.2	30.95	760.7	62	16.7	97	s.	7	3.1			10 s		s.	0.87	22.1	cloudy	G. A. Blair.
Cornwall, Ontario	29.42	747.3	29.60	751.8	63.0	17.2	87	sw.			1		10 s			0.208	5.3	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.86	758.4	29.91	759.7	55.5	13.1		e.			6		10 n					raining	H. A. Johnson.
Father Point, Quebec*	29.77	756.1	29.79	756.7	62	16.7	90	calm	0	0			10 s		calm	0.11	2.8	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.04	737.6	29.87	758.7	52	11.1	96	s.	6	2.7		5 cs	0	s.		0	0	fair	James Stewart.
Fredericton, N. B	29.86	758.4	29.92	760.0	63.1	17.3	94	se.	14	6.3			10 n			0.570	14.5	raining	Prof. Harrison, L. L. D.
Granton, Ontario	28.56	725.4	29.04	752.8	54.0	12.2	100	sw.	9	4.0			10 n			0.20	5.1	raining	Jas. Grant.
Halifax, N. S*	29.95	760.7	30.08	764.8	58	14.4	86	se.	6	2.7		5 k	2 k	sw.		0.034	0.9	cloudy	A. Allison.
Hamilton, Ontario	29.19	741.4	29.57	751.1	63.5	17.5	90	sw.			3	8 ck	0	sw.		0.20	5.1	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.31	744.5	29.64	752.8	56	13.3	83	sw	7	3.1		8 ck	0	sw.		0.02	0.5	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.16	766.1	30.20	767.1	59.0	15.0	79	s.			4	7 k	0		sw.	0	0	d. clouds	C. H. Rigby.
London, Ontario	28.78	731.0	29.58	751.3	55.7	13.2	92	w.					10 ks			0.13	3.3	overcast	E. B. Reed.
Montreal, Quebec*	29.45	748.0	29.65	753.1	63	17.2	97	se.	4	1.8			10 n			0.42	10.7	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.36	745.7	29.59	751.6	61.9	16.6	90	sw.			2		10 s			0.03	0.8	overcast	A. McGill, M. A.
Parry Sound, Ontario*	28.92	734.6	29.60	751.8	55	12.8	83	se.	5	2.2		5 k	5 ks	se.	se.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.88	733.5	29.59	751.6	59.2	15.1	88	calm			0	6 c	0	w.		0.070	1.8	fair	J. Dixon, B. A.
Port Dover, Ontario	28.96	735.6	29.63	752.6	58	14.4	94	sw.	9	4.0			10 n		sw.	0.08	2.0	threatening	H Morgan.
Port Stanley, Ontario	29.04	737.6	29.66	753.1	57	13.9	86	w.	12	5.4			10 n		w.	0.03	0.8	light rain	M. Payne.
Quebec, Quebec*	29.36	745.7	29.71	754.6	61	16.1	100	n.	12	5.4			10 ks			0.47	11.9	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.15	740.4	29.58	751.3	60	15.6	93	se.	2	0.9			10 ks			0.10	2.5	light rain	W. H. McIntyre.
St. Andrews, N. B	29.83	757.7	29.88	758.9	55	12.8	100	s.	7	3.1			fg.			0.92	23.4	foggy	
St. John, N. B	29.78	756.4	29.94	760.5	63.0	17.2	94	se.	7	3.1		7 k	0			0.320	8.1	d. clouds	G. Murdock, C. E.
Saint John's, N. F	30.09	764.3	30.35	770.9	45	7.2	92	se.			1		10 n			0	0	foggy	J. Higgins.
St. Pierre, N. F			30.20	767.1	53.6	12.0		se.			2					0	0		The Commandant.
Saugeen, Ontario*	28.92	734.6	29.62	752.3	52	11.1	93	w.	12	5.4			fg.			0	0	foggy	
Stratford, Ontario	28.38	720.8	29.63	752.6	53.9	12.2	97	w.	7	3.1			10 s			0.202	5.2	d. clouds	G. J. Macgregor, M A.
Sydney, C. B*	30.13	765.3	30.19	766.8	60	15.6	78	s	8	3.6		5 cs	5 ks	sw.	sw.	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.20	743.2	29.63	752.6	56	13.3	96	sw.	3	1.3			10 n		sw.	0.34	8.6	light rain	Magnetic Observatory.
Windsor, N. S	29.98	761.5	30.02	762.5	63.0	17.2	75	w.	8	3.6		0	9 ks			0	0	d. clouds	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.60	726.4	29.64	752.8	55.9	13.3	93	s.	17	7.6			10 s			0.58	14.7	overcast	Prof Wolverton, M.A.
Yarmouth, N. S*	29.87	758.7	29.94	760.5	65	18.3	90	se.	11	4.9		5 ck	5 k	w.	s.	0.16	4.1	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch	Mill	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	30.15	765.8	30.18	766.6	65.0	18.3	83	w.	6.7	3.0		0	0			0	0	hazy	John Du[illegible]
Springbok Fontein	28.10	713.7			71	21.7	22	ne.											J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.80	756.8	29.91	759.6	67.8	19.9	79	sw.			4		6			0.110	2.8		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.79	756.6	29.81	757.2	76.8	24.9	93	se.	2.9	1.3		8 ck	0			0.913	23.2	almost cov'd	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.80	756.9	29.85	758.1	61.2	16.2	52	nnw.	13	6			10						Oversergent Fischer.
Fanoe	29.92	760.0	29.94	760.5	58.8	14.9	57	nnw.			6		3						Overloerer Lauridsen.
Godthaab, Greenland	29.92	760.0	29.97	761.1	40.3	4.6	81	ne.			2–4		1						S. Kleinschmidt.
Jacobshavn, Greenland	29.98	761.5	30.03	762.7	40.3	4.6		calm			0		2						
Stykkisholm, Iceland	29.85	758.1	29.89	759.2	51.4	10.8	90	s.			6		10					raining	A. O. Thorlacius.
Thorshavn	30.15	765.7	30.17	766.3	51.4	10.8	73	calm	0	0			3						Overloerer Bergh.
Vestervig	29.87	758.6	29.96	760.9	54.5	12.5	69	wnw.			2		1						Loerer Oesterbol.
Egyptian.																			
Cairo	29.79	756.6			94.5	34.7		ne.	8.1	3.6		0	0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.54	750.3	30.19	766.8	62.6	17	85	wsw.			1		kn			0.146	3.7		M. Labroue, Director.
Alençon, Normal School	29.38	746.2	29.93	760.2	60.4	15.8	83	s.			1		k		n.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	30.01	762.2	30.09	764.2	73.0	22.8	44	wnw.			1		2		w.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.48	748.7	30.02	762.6	64.4	18.0	53	ssw.			1	0	8 kn		wsw.	0.102	2.6	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.71	754.6	29.97	761.2	60.4	15.8	67	sse.			1		10		sw.	0.051	1.3	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.14	740.1	30.02	762.4	66.2	19	63	sw.			1	0	0			0.224	5.7	clear	M. Gobin, Director.
Bordeaux, Observatory	29.83	757.6	30.09	764.2	65.5	18.6	56	sw.			1		5		sw.	0.039	1.0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.49	749.1	30.04	762.9	61.7	16.5	55	ssw.			4		n		ssw.	0.20	5.		M. Malet, Director.
Brest, Naval Observatory	29.70	754.4	29.95	760.6	63.0	17.2	70	wnw.			2		6		wnw.	0.047	1.2		M. de Kermarée, Dir.
Caen, Normal School	29.79	756.6	29.86	758.4	58.6	14.8	74	s.			2		10		s.	0.728	18.5	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.66	753.3	29.97	761.3	61.5	16.4	81	sw.			4		8		w.	0.059	1.5	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.49	749.0	30.00	761.9	62.6	17.0	63	wnw.			4		10	sw.	s.	0.028	0.7	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.72	729.5	30.04	763.1	66.2	19.0	53	wsw.			2	0	5 k		wsw.	0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.21	742.0	30.05	763.2	62.6	17	55	ne.			2		8		ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.17	740.9	30.01	762.3	62.6	17	44	w.			1		kn	w.	w.	0.087	2.2		Dr. Coulet, Director.
Gap, Normal School	27.50	698.6	29.99	761.7	64.0	17.8	60	calm			0		2 k	s.	s.	0.138	3.5		M. Jeangirard, Director.
Gréasque, du Rhone	28.97	735.9	30.07	763.7	69.3	20.7	31	nw.			3		3		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.31	744.4	30.07	763.7	67.3	19.6	50	nw.			1		k		sw.	0.213	5.4		M. Ablard, Director.
Guéret, Normal School	28.42	721.9	30.06	763.6	59.9	15.5	81	sw.			1	0	5 kn		sw.	0.272	6.9	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.86	758.4	30.13	765.2	55.4	13	80	nw.					k		nw.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.59	751.6	30.15	765.8	65.5	18.6	56	w.			1	0	5 k			0.118	3.0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.84	757.9	29.94	760.5	59.0	15.0	76	sw.			2		8	calm	w.	0.213	5.4	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.03	737.4	30.06	763.6	65.8	18.8	46	s.			1	ck	0			0	0	cloudy	M. André, Director.
Mans, Normal School	29.65	753.1	29.96	760.9	61.2	16.2	61	ssw.			1		10		w.			light rain	M. Piboën, Director.
Marseille, Observatory	29.81	757.2	30.08	764.0	66.2	19.0	57	w.			3		1		w.	0	0		M. Stephan, Director.
Montlouis	24.91	632.8	29.76	755.8	53.6	12.0	52	se.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.94	760.5	30.06	763.6	73.2	22.9	59	w.			2		2		w.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.21	741.9	29.97	761.1	64.4	18.0	63	sw.			1		k		n.	0.059	1.5		M. Hasse, Director.
Nantes, Observatory	29.84	757.9	30.00	762.0	57.4	14.1	90	sw.			0–2		10 kn;n		sw.	0.197	5.0		M. Larocque, Director.
Perpignan, Observatory	30.02	762.5	30.06	763.5	69.6	20.9	49	e.	3.8	1.7			8		sw.	0	c		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.0			34.0	1.1		sw.			2–3		1		sw.	0.079	2.0	clear	M. Vaussenat, Director.
Privas, Normal School	29.05	737.8	30.10	764.5	65.8	18.8	53	s.			1	0	5 n		s.	0	0	cloudy	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.19	639.9			39.9	4.4	94	wsw.			4		5		wsw.	0.618	15.7	½ covered	M. Alluard.
Rochefort, Naval Obs'y	30.00	762.1	30.04	762.9	64.4	18.0	62	wsw.			6		8	sw.	w.	0.79	20.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.79	756.6	30.00	762.0	61.9	16.6	70	sw.			1		5	e.	e.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.95	710.0	30.09	764.3	58.1	14.5		nw.			1	0	5 k		e.	0.185	4.7	fair	M. Seger, Director.
Rouen, Normal School	29.90	759.4	29.95	760.6	59.0	15	65	ssw.			1		10	ssw.		0.224	5.7	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.85	758.1	30.01	762.2	60.8	16.0	59	sw.			1		10		wsw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.46	748.3	30.19	766.6	66.7	19.3	62	nnw.			2		2	w.		0.047	1.2	slightly cl'dy	M. Bailland, Director.
Tours	29.82	757.3	29.99	761.8	63.0	17.3	56	s.			3		10		s.	0.016	0.4	covered	M. de Tastes.
Versailles, Observatory	29.50	749.3	29.99	761.8	59.7	15.4	58	sw.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.01	762.2	30.16	766.0	65.1	18.4	69	nw.	11.9	5.3		0	4 k		w.	0.598	15.2		M. Cartier, Director.
German.																			
Ansbach	28.52	724.3	29.94	760.5	61.7	16.5	57	w.			4		7	w.		0.177	4.5		Prof. Jnedt.
Bamberg	29.05	737.9	29.89	759.2	66.4	19.1	54	ne.			3	0	5 k; s		n.	0	0		Prof. Dr. Hoh.
Berlin	29.66	753.4	29.80	756.9	62.2	16.8	51	nw.			1		10			0.039	1.0		Dr. Sensch.
Breslau	29.11	739.4	29.63	752.7	50.7	10.4	92	wnw.			8		10			1.894	48.1	light rain	Royal University Obs'y
Carlsruhe	29.54	750.3	29.99	761.7	68.0	20.0	48	sw.			5		9	nw.		0	0		Albert Senz.
Cassel	29.22	742.2	29.93	760.3	69.1	20.6	37	nw.			4		4	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.92	759.9	68.9	20.5	45	sw.			1		6			0.039	1.0		Physical Society.
Friedrichshafen	28.60	726.3	29.98	761.6	62.8	17.1	63	sw.			3		5	sw.		0.016	0.4		Wilhelm, Chief Tel.
Hamburg	29.82	757.4	29.91	759.7	64.8	18.2	61	wsw.			3		6	s.		0.146	3.7		E. Preller.
Kiel	29.88	759.0	29.90	759.4	62.2	16.8	58	ne.			2		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.46	748.3	29.87	758.7	65.5	18.6	46	nw.			4		9	nw.		0.504	12.8	hazy	H. Leppig, Asst.
Magdeburg	29.69	754.0	29.87	758.6	65.8	18.8	42	wnw.			3		7	nw.		0	0		Weather Observatory
Memel	29.52	749.8	29.56	750.9	72.0	22.2	73	ne.			2		7 ks						Issermann.
Munich	28.18	715.8	30.04	763.1	57.0	13.9	62	nw.			2		6	nw.		0.236	6.0		Central Station.
Neufahrwasser	29.89	759.3	29.91	759.7	63.0	17.2	86	n.			2		9			0.421	10.7		A. Lothes.
Neustadt, Palatinate	29.41	740.9	30.01	762.2	65.1	18.4	54	w.			2		8			0	0		Dicknether.
Stuttgart	29.03	737.3	29.90	759.5	64.4	18.0	49	nw.			2		3	w.		0.244	6.2		Prof. Dr. Schoder.
Wustrow	29.81	757.1	29.84	757.8	61.0	16.1	56	nne.			4		10 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.58	751.2	29.94	760.4	87.8	31.0		sw.			2.5		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.52	749.8	29.57	751.0	89.6	32.0	75	wsw.	28.0	12.5			4		wsw.	0	0	d. clouds	
Deesa	29.08	738.7	29.54	750.2	98.8	37.1	30	sw.	14.0	6.3			2	sw.		0	0	d. clouds	
Bombay	29.67	753.6	29.70	754.5	87.0	30.6	73	wsw.	11.0	4.9			6		w.	0	0	d. clouds	
Poona, Yarrowda	27.85	707.5	29.68	754.0	82.8	28.2	57	w.	28.0	12.5			10			0	0	overcast	
Trichinopoly	29.44	747.9	29.72	754.8	97.8	36.6	33	wnw.	1.0	0.4			5	nne.	nne.	0	0	d. clouds	
Belgaum	27.20	691.0	29.74	755.4	73.9	23.3	81	w.	11.0	4.9			10	s.	w.	0	0	d. clouds	
Lahore	28.73	729.8	29.43	747.6	104.8	40.4	19	calm	0	0			5			0	0	d. clouds	
Roorkee	28.55	725.2	29.40	746.7	103.3	39.6	32	calm	1.0	0.4			0			0	0		
Agra	28.95	735.3	29.50	749.2	93.1	33.9	41	nw.	12.0	5.4			8		w.	0	0	d. clouds	
Nagpur	28.56	725.3	29.59	751.6	80.9	27.2	84	se.	10.0	4.5			10		w.	0.05	1.3	drizzling	
Jubbulpore	28.22	716.8	29.53	750.1	92.7	33.7	51	e.	8.0	3.6			10		ne.	0	0	overcast	
Lucknow	29.09	738.9	29.45	748.0	103.4	39.7	35	ne.	3.0	1.3			3		sw.	0	0	d. clouds	
Allahabad	29.17	740.8	29.46	748.4	99.3	37.2	39	ene.	2.0	0.9			8		w.	0	0	d. clouds	
Patna	29.41	747.0	29.59	751.6	84.2	29.0	79	e.	5.3	2.4			10	e.	e.	0	0	overcast	
Hazaribagh	27.64	702.0	29.64	752.9	75.5	24.2	82	s.	6.5	2.9			10					thund'r st'm	
Cuttack	29.58	751.2	29.66	753.3	83.8	28.8	71	w.	8.0	3.6			9			0	0	d. clouds	
Calcutta, Alipore	29.63	752.6	29.65	753.2	84.6	29.2	76	s.	10.0	4.5			9		sw.	0	0	d. clouds	
Dhubri	29.55	750.6	29.67	753.6	77.3	25.2	95	calm	3.0	1.3			9			1.73	43.9	d. clouds	
Chittagong	29.68	753.9	29.77	756.1	78.7	25.9	88	sse.	5.6	2.5			10			0	0	overcast	
Sibsagar	29.34	745.2	29.67	753.6	86.0	30.0	84	sw.	2.0	0.9			6	sw.	sw.	0.20	5.1	d. clouds	
Jeypore	28.12	714.3	29.51	749.6	95.7	35.4	39	ne.	12.0	5.4			2		ne.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Zanzibar	30.02	762.4	30.04	763.0	83.3	28.5	62	ssw.	9.5	4.2			7		se.	0	0	d. clouds	
Bellary	28.23	717.0			87.3	30.7	44	w.	12	5.4		5 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.53	750.0	29.93	760.1	71.4	21.9	57	sw.	3.1	1.4			7			0.610	15.5		Prof. Giovanni Clodig.
Milan	29.45	747.9	29.95	760.8	70.2	21.2	40	sw.	9.4	4.2			1	w.		0.181	4.6		Prof. G. V. Schiapparelli.
Padua	29.83	757.6	29.93	760.3	71.1	21.7	43	w.	13.7	6.1			6	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.06	738.0	29.94	760.5	70.0	21.1	41	e.	4.9	2.1			1			0	0		Prof. F. F. Denza.
Genoa	29.80	756.9	29.99	761.7	70.5	21.4	53	sw.	6.3	2.8			6	e.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.08	713.3	29.97	761.2	65.8	18.8	38	wnw.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.89	759.3	29.94	760.5	69.1	20.6	56	w.	11.9	5.3			10			0	0		Prof. Luigi Guidi.
Florence	29.80	757.0	30.06	763.4	66.9	19.4	54	nw.			2		10	w.		0.071	1.8		Prof. Costantino Pittet.
Leghorn	29.92	760.0	30.00	762.1	69.8	21.0	57	w.	13.7	6.1			5			0	0		Prof. P. Monte.
Rome	29.92	760.0	30.09	764.3	71.2	21.8	52	ssw.	15.4	6.9			6	sw.		0	0		Prof. P. Tacchini.
Lecce	29.82	757.3	30.06	763.4	77.0	25.0	34	wnw.	17.4	7.8			1	w.		0	0		Prof. C. de Giorgi.
Cosenza	29.24	742.7	30.09	764.2	80.2	26.8	65	wnw.	3.8	1.7			4	w.		0	0		Prof. D. Conti.
Cagliari	29.91	759.8	30.10	764.6	72.1	22.3	58	s.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.91	759.7	30.15	765.9	72.5	22.5	40	ne.	6.3	2.8			0			0	0		Prof. G. Caccintore.
Syracuse	30.02	762.6	30.07	763.7	77.9	25.5	50	e.	3.8	1.7			0			0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.57	751.0	30.08	764.0	71.1	21.7	55	sw.	10.5	4.7			4	ne.		0	0		Prof. F. Brioschi.
Stelvio	22.17	563.1			40.5	4.7	64	e.			1		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.21	564.1			39.2	4.0	66	nw.			2		9			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.75	755.7	29.78	756.6	68.5	20.3	96	calm			0		10 n		nw.	0.228	5.8	raining	H. Hattori.
Awomori	29.74	755.4	29.78	756.4	67.2	19.6	76	ssw.	6.6	2.9			10ks;kc		w.	0	0	overcast	K. Ogawa.
Hamamatsu	29.85	758.2	29.88	758.9	74.3	23.5	95	s.			2		10 s		s.	0.031	0.8	overcast	Y. Sekigawa.
Kanazawa	29.73	755.0	29.82	757.5	73.4	23.0	92	w.	3.8	1.7			10 n			0.984	25.0	raining	S. Endo.
Kagoshima	29.86	758.5	29.88	758.8	77.9	25.5	84	nw.			2		10 s			0.043	1.1	cloudy	G. Miyanonaza.
Kioto	29.67	753.5	29.84	757.9	79.0	26.1	76	ssw.	2.3	1.0			10ks;ck		sw.	inap.	inap.	cloudy	M. Tojima.
Kochi	29.85	758.1	29.87	758.6	76.9	24.9	90	w.	1.9	0.8		8 ck	0	w.		0.05	1.3	cloudy	K. Kusunose.
Miasaka	29.83	757.6	29.85	758.3	78.8	26.0	89	nw.			2	1 ck	8 ck;s	w.	w.	0	0	cloudy	K. Masusaki.
Miyako	29.68	753.9	29.79	756.7	62.4	16.9	90	ne.	1.9	0.8			10 s			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.67	753.6	29.87	758.7	75.8	24.3	91	wsw.	2.7	1.2			10 s			0	0	overcast	S. Takehayashi.
Niigata	29.75	755.6	29.78	756.4	73.8	23.2	94	se.	4.2	1.9			10 s		w.	0.200	5.1	overcast	M. Morita.
Nobiru	29.74	755.4	29.76	755.8	71.8	22.1	92	se.	2.5	1.2			10ks;n		w.	0.075	1.9	covered	H. Midzushina.
Numazu	29.80	756.9	29.83	757.8	74.1	23.4	89	ssw.			7	2 ck	6 ks	w.	w.	0.063	1.6	cloudy	R. Kaneda.
Osaka	29.81	757.3	29.83	757.7	76.9	24.9	79	nw.	13.4	6.0			10s;ck		w.	0	0	cloudy	H. Omura.
Sakai	29.81	757.1	29.82	757.3	73.7	23.2	90	wsw.			2		10 ks		wnw.	0.079	2.0	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	29.69	754.1	29.76	755.9	74.1	23.4	83	ssw.	11.7	5.2		0	0			0	0	clear	The Staff.
Wakayama	29.78	756.4	29.83	757.7	77.7	25.4	77	sw.	5.1	2.3		0	8 ck		sw.	0	0	cloudy	K. Sakai.
Shimonoseki	29.70	754.4	29.85	758.2	78.2	24.0	85	calm			0		10 ck;cs		sw.	0.079	2.0	cloudy	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.92	760.0	30.11	764.8	74.0	23.3	62	e.	11.0	4.9		0	2 k;ks			0.002	0.5	clear	The Staff.
MEXICAN.																			
Guanajuato	23.68	601.6	29.90	759.6	60.8	16.0	78	e.	4.0	1.8		7 k;kn	0	ne;w.		0	0	cloudy	Prof. Vicente Fernandez
Leon	24.30	617.2	29.89	759.2	64.4	18.0	78	e.	1.3	0.6		8 c	1 k	ne.	ne.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.59	751.6	29.84	758.0	79.0	26.1	91	e.	1.0	0.8			8 n		e.	0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					80	26.7	74	se.	10.6	4.7		6 ck	0	se.		0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.96	761.0	29.96	761.0	65.1	18.4		ssw.			3					0	0		
Groningen	29.92	759.9	29.97	761.3	58.6	14.8		n.			1					0	0		
Helder	29.97	761.3	29.97	761.3	58.3	14.6		e.			2					0	0		
Hellevoetsluis	29.95	760.7	29.95	760.7	66.6	19.2	63	calm			0					0.035	0.9		
Utrecht	29.92	760.0	29.97	761.2	64.6	18.1	57	ssw.			3		5			0.280	7.1	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.3			79.9	26.6	82	ne.	0	0			4			0.039	1.0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.85	758.1	29.91	759.7	58.3	14.6	57	nnw.	9	4			3			0	0		
Brono	30.00	762.1	30.04	763.1	54.0	12.2	63	n.			7		1			0	0		
Christiania	29.72	755.0	29.87	758.6	68.0	20.0	40	e.	7	3			4			0	0		
Gjesvær	29.89	759.3	29.92	759.9	42.1	5.6		w.			7		10						
Lodingen	29.98	761.5	30.03	762.7	50.9	10.5	56	ne.			3		2			0	0		
PORTUGUESE.																			
Angra, Azores	30.28	769.0	30.43	773.0	64.8	18.2	82	ese.	13.6	6.1			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.00	736.5	29.96	760.9	78.4	25.8	33	n.	1.3	0.6			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.07	763.8	30.16	766.0	68.4	20.2	62	sw.					7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.4	30.03	762.7	72.1	22.3	45	n.	18.1	8.1			8			0	0		The Staff.
Ponta Delgada, Azores	30.36	771.1	30.43	772.9	64.8	18.2	75	se.	0.9	3.1			4	ne.		0	0		
Saint Paul de Loando	29.79	756.7	30.00	761.9	74.7	23.7	89	wsw.			2		2	s.		0	0		
San Salvador	28.08	713.2	29.93	760.2	72.5	22.5	65	sw.			1		4			0	0		
Serra da Estrella	25.37	644.4	30.00	762.0	59.4	15.2	46	e.	4.9	2.2			7			0	0		
RUSSIAN.																			
Akmolinski	28.84	732.6	29.87	758.8	71.1	21.7	28	n.	4	2		0	0			0	0		Major K. Lasarew.
Archangel	29.66	753.4	29.68	753.9	66.2	19.0	81	w.	13	6			9 k			0	0		Capt. Sselliwerstow
Ashuruda	29.94	760.4	29.84	758.0	78.1	25.6	80	w.	9	4		0	8 ku			blank	blank		
Astrakhan	29.89	759.1	29.80	757.0	70.7	21.5	75	w.	4	2			10 n			0.079	2.0		Capt. Wisganow.
Baku	29.90	759.4	29.85	758.2	82.0	27.8	72	s.	9	4		1 ck	0			0.012	0.3		
Barnaul	29.25	743.0	29.75	755.6	50.0	10.0	76	nw.	9	4			10			0.067	1.7		Meteorological Obs'y
Bielosersk	29.25	743.0	29.70	754.4	70.3	21.3	84	wnw.	2	1			10ks;n			1.370	34.8	thud'r storm	
Dorpat	29.37	745.9	29.60	751.7	76.3	24.6	57	ene.	9	4		0	4 k			2.193	55.7		Observatory.
Ekaterinburg	29.03	737.3	29.93	760.3	83.1	28.4	28	w.	7	3		0	0			0	0		Meteorological Obs'y.
Elissawetgrad	29.26	743.3	29.69	754.1	75.7	24.3	61	w.	9	4			10 s			0	0		
Irkutsk	28.04	712.2	29.61	752.2	62.8	17.1	49	calm			0		8			0.197	5.0		
Kasalinsk	29.18	741.1	29.35	745.6	93.2	34.0	42	e.			2	ck	0						
Kasan	29.61	752.2	29.86	758.5	85.6	29.8	25	sse.	13	6		0	1			0	0		Observatory.
Kem	29.71	754.6	29.76	755.9	64.0	17.8	60	ne.	9	4		0	2 ks			0.035	0.9		
Kertch																			
Kieff	29.00	736.6	29.60	751.8	76.3	24.6	42	wsw.	9	4		cs	2 ks			0.098	2.5		Lagorio & Sastyrez.
Koslov	29.18	741.1	29.68	753.9	81.3	27.4	60	sse.	9	4		0	5 k			0	0		Observatory.
Liban	29.56	750.8	29.58	751.4	61.3	16.3	96	ne.	4	2			10			0.465	11.8	raining	E. Quaas.
Lugan	29.43	747.4	29.60	751.8	84.2	29.0	45	ssw.	9	4			3			inap.	inap.		Meteorological Obs'y.
Moscow	29.20	741.6	29.64	752.8	77.5	25.3	59	calm	0	0		0	7 ks			0	0		Meteorological Obs'y
Nikolaiev	29.66	753.4	29.74	755.3	71.2	21.8	80	s.	13	6			10 n			0.134	3.4		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.52	749.8	29.61	752.0	47.7	8.7	89	n.	2	1			9			0.079	2.0		Iwanow.
Pekin, China	29.63	752.7	29.78	756.3	78.4	25.8	44	sw.	3.4	1.5		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.42	747.2	29.74	755.5	92.3	33.5	22	n.	3.4	1.5		0	5 ks			0	0		
Petrozavodsk	29.50	749.2	29.69	754.0	70.5	21.4	74	ne.	7	3			10			0.130	3.3	light clouds.	Dr. Bergmann.
Pinsk	29.11	739.4	29.58	751.4	71.8	22.1	51	sse.	18	8		0	4 ks			0.594	15.1		
Poti	29.83	757.6	29.86	758.4	80.4	26.9	65	nw.	4	2		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
St. Petersburg	29.62	752.4	29.65	753.0	75.6	24.2	55	ene.	7	3		0	3 ks			0.063	1.6		Central Physical Obs'y.
Samarkand	27.33	694.1	29.58	751.8	92.7	33.7	31	calm	0	0		0	0			0	0		
Semipalatinsk	29.23	742.4	29.87	758.6	64.9	18.3	35	nw.	13	6			4			0.264	6.7		Major Lasarew
Sevastopol	29.54	750.3	29.75	755.7	86.0	30.0	22	sw.	20	9		5 cs	0			0	0		
Staroi Bykhov	29.20	741.6	29.63	752.6	71.1	21.7	81	ese.	7	3			10			0.031	0.8	thund'r st'm	
Tashkend	28.05	712.5	29.56	750.9	97.0	36.1	23	calm	0	0		0	1 s			0	0		Terch, A. M.
Tiflis	28.46	722.9	29.78	756.4	90.9	32.7	21	sse.	4	2		0	3 k			0	0		Physical Observatory.
Vernoe	27.28	693.0	29.63	752.6	80.2	26.8	43	calm	0	0		0	6 n			0	0		
Viatka	29.24	742.8	29.84	757.8	83.8	28.8	36	nw.	4	2			2			0	0		
Warsaw	29.07	738.3	29.48	748.7	62.2	16.8	70	sse.	7	3			10 kn			0.181	4.6	hvy. clouds	Astronomical Obs'y.
Yeniseisk	29.30	744.1	29.58	751.2	53.2	11.8	96	w.	2	1			10			0.169	4.3		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.07	763.8	54	12.2	93	ne.			4	5	5	ne.		0.1	3.	d. clouds	J. Youngclause.
North Unst			30.13	765.3				ne.			3	0	3						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.04	763.0	30.14	765.6	69.4	20.8	63	e.	2.9	1.3		0	4			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.08	764.0	30.14	765.5	71.6	22.0	59	nw.	2.7	1.2		2	0	sw.		0.012	0.3	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.17	690.0	30.00	763.6	64.0	17.8	58	ne.	4.3	1.9		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.2	29.99	761.7	75.2	24.0	28	e.	5.4	2.4		0	1			0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.92	759.9	30.04	763.0	74.3	23.5	58	ese.	6.9	3.1		4	4	w.		0.008	0.2	cloudy	Olayo Diaz, Director.
Oviedo	29.37	745.9	30.13	765.2	59.0	15.0	91	e.	9.2	4.1		4 k	6 k	w.	e.	0	0		Prof. L. G. Frades.
Santiago, Met. Obs'y	29.22	742.1	30.10	764.5	63.9	17.7	56	n.	3.8	1.7		0	1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.94	760.4	30.00	762.0	79.9	26.6	78	ese.	4.5	2.0		1 c; cs	0	e.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.91	759.8	82.2	27.9	67	ne.	1.1	0.5		2 cs	2 s			0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.88	759.0	29.98	761.4	80.1	20.7	27	e.	21.1	9.4		0	4		e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.7	30.08	764.0	78.8	26.0	92	calm	0	0		1 s	3 k	se.	se.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.84	757.8	29.87	758.8	64.0	17.8	58	n.			4		8			0	0		
Umea	29.84	757.9	29.89	759.2	69.8	21.0	47	sw.			4		5			0	0		
Hernosand	29.80	756.9	29.85	758.2	67.3	19.6	89	ne.			2		5			0.016	0.4		
Stockholm	29.64	752.8	29.82	757.3	67.6	19.8	32	nne.			6		3			0	0		
Wisby	29.68	753.8	29.74	755.3	55.8	13.2	82	ne.			6		10			0	0		
Sub-series.																			
Upsala	29.73	755.2	29.82	757.4	65.8	18.8	44	n.	14.5	6.5			3			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.69	728.6	30.10	764.6	57.7	14.3	68	nne.			2		7			0.047	1.2	cloudy	The Observatory.
TURKISH.																			
Constantinople			29.87	758.6	82.4	28.0	46	n.	14	6.5			2		sw.	0	0		The Observatory.
Valona			30.24	768.1	77.4	25.2		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.87	758.6	82.6	28.1	68	w.			1		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.70	678.2			69	20.6	47	w.			0.5					0	0	clear.	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.63	752.6	29.71	754.6	72	22.2	83	s.	7	3.1		4 k	6 s	sw.	sw.	0.11	2.8	cloudy	J. O. Barnes.
Alpena, Michigan	29.02	737.1	29.68	753.9	53	11.7	80	w.	11	4.9			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.00	635.0	29.75	755.6	53	11.7	52	e.	4	1.8		6 k	0	w.		0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.04	686.8	29.83	757.7	60	16.6	52	sw.	10	4.5		1 c	0	w.		0.30	7.6	clear	B. O. Lenoir.
Atlanta, Georgia	28.83	732.3	29.98	761.5	75.0	23.9	71	nw.	7	3.1		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	29.73	755.1	29.74	755.4	69	20.6	90	se.	3	1.3		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.76	755.9	29.95	760.7	76.0	24.4	84	nw.	2	0.9		0	0			0	0	clear	John Healy.
Baltimore, Maryland	29.75	755.6	29.80	756.9	74	23.3	59	w.	6	2.7		0	0			0.02	0.5	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.73	755.1	29.75	755.6	73.0	22.8	84	n.	10	4.5		0	3 k; fg			0.02	0.5	clear	G. A. Hill.
Behring Id., Behring Sea	29.25	742.9	29.27	743.4	39.8	4.3	92	e.	6	2.7			10 n			0.20	5.1	light rain	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.22	716.8	29.76	755.9	60.0	15.6	87	ne.	2	0.9			10 s		ne.	0.36	9.1	cloudy	A. Pritchard.
Benton, Fort, Montana	27.04	686.8	29.81	757.2	69	20.6	57	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana	26.66	677.2	29.80	756.9	54	12.2	69	calm	0	0		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.00	711.2	29.76	755.9	60	15.6	87	sw.	3	1.3		8 cs	2 s	sw.	sw.	0.10	2.5	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.73	755.1	29.81	757.2	65.5	18.6	97	s.	16	7.2		4 cs	4 s		sw.	0.22	5.6	cloudy	J. T. Elker.
Boise City, Idaho	27.05	687.1	29.83	757.7	58	14.4		w.	4	1.8		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.61	752.1	29.76	755.9	67.0	19.4	90	s.	6	2.7			10 s		s.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	81.0	27.2	85	s.	4	1.8		0	3 ks			0	0	clear	E. C. Imlay.
Buffalo, New York	28.92	734.6	29.66	753.4	57.2	14.0	92	sw.	26	11.6			10 n		sw.	0.39	9.9	heavy rain	W. Finn.
Buford, Fort, Dakota	27.87	707.9	29.83	757.7	59	15.0	87	sw.	2	0.9		2 ck	3 s			0.11	2.8	fair	A. Schneider.
Burlington, Vermont																			D. N. Farnell.
Cairo, Illinois	29.61	752.1	30.00	762.0	75.8	24.3	82	ne.	2	0.9		3 c	0	nw.		0	0	clear	W. H. Ray.
Cape Henry, Virginia	29.79	756.7	29.81	757.2	76.0	24.4	76	w.	14	6.3		0	0			0.31	7.9	clear	A. K. Alderson.
Cape May, New Jersey																			W. E. Smith.
Cape Mendocino, California	29.27	743.4	29.95	760.7	51	10.6	86	nw.			2		10 ks		nw.	0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	29.97	761.2	29.99	761.7	83	28.3	80	w.	12	5.4		0	4 k		w.	0	0	fair	G. W. Davis.
Charleston, S. Carolina	29.88	758.9	29.93	760.2	78	25.6	76	nw.	10	4.5		0	0			inap.	inap.	clear	J. H. Smith.
Charlotte, N. Carolina	29.08	738.6	29.90	759.4	80.0	26.7	54	sw.	1	0.4		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.19	741.4	30.00	762.0	74.0	23.3	82	nw.	2	0.9		0	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.03	610.4	29.77	756.1	53.2	11.8	52	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.18	741.2	29.87	758.7	63.2	17.3	74	nw.	5	2.2		hz.	0			0	0	clear	John Laurens.
Chincoteague, Virginia	29.75	755.6	29.77	756.1	73	22.8	82	nw.	19	8.5		0	0			0.01	0.3	clear	C. F. Dickens.
Cincinnati, Ohio	29.28	743.7	29.92	760.0	68.0	20.0	66	w.	4	1.8		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.02	737.1	29.75	755.6	61.7	16.5	66	sw.	14	6.3			9 s		w.	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.21	716.5	29.96	761.0	73	22.8	82	se.	1	0.4		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.01	736.8	29.85	758.2	65	18.3	63	sw.	12	5.4		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.04	712.2	29.91	759.7	76.0	24.4	74	s.	6	2.7		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.28	743.7	29.92	760.0	62	16.7	78	w.	4	1.8		3 k	hz.	w.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.22	640.6	29.83	757.7	70	21.1	57	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.21	716.5	29.95	760.7	50	10.0	38	sw.	2	0.9		1 c	2 s	s.		0	0	clear	D. Moore.
Deadwood, Dakota	25.29	642.4	29.73	755.1	56	13.3	67	ne.	3	1.3		0	3 s		nw.	0.02	0.5	clear	F. Willson.
Delaware Breakwater, Del.	29.75	755.6	29.77	756.1	69	20.6	90	nw.	13	5.8		0	hz.			0.17	4.3	clear	T. S. Townsend.
Denver, Colorado	24.69	627.1	29.73	755.1	59.0	15.0	54	s.	8	3.6		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.03	737.3	29.91	759.7	64	17.8	84	e.	3	1.3		7 cs	2 ks		sw.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.02	737.1	29.71	754.6	60.0	15.6	75	w.	14	6.3			10 s		w.	inap.	inap.	cloudy	E. R. Brace.
Dodge City, Kansas	27.24	691.9	29.75	755.6	71	21.7	82	sw.	28	12.5		5 ck	0	sw.		inap.	inap.	fair	D. J. Carr.
Dubuque, Iowa	29.24	742.7	29.92	760.0	61.7	16.5	62	sw.	2	0.9		0	hz.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.15	740.4	29.88	758.9	63	17.2	68	calm	0	0		3 cs	0	w.		0.01	0.3	clear	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho																			H. R. Boynton.
Eastport, Maine	29.83	757.7	29.90	759.4	56.0	13.3	93	s.	12	5.4			10 s		s.	0.66	16.8	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.18	690.4	29.85	758.2	68	20.0	40	s.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.22	666.0	29.81	757.2	74.0	23.3	42	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.98	736.1	29.70	754.4	61	16.1	72	sw.	12	5.4			10 s		sw.	0.15	3.8	cloudy	C. A. Shaw.
Escanaba, Michigan	29.11	739.4	29.76	755.9	58.2	14.6	76	n.	12	5.4		0	hz.			0.50	12.7	clear	George Heathcote.
Galveston, Texas	29.96	761.0	30.00	762.0	82	27.8	80	sw.	4	1.8		2 ck	3 ks		s.	0.02	0.5	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.16	740.7	29.81	757.2	59.0	15.0	81	w.	17	7.6		3 c	1 s			0.15	3.8	fair	J. E. Mueller.
Grant, Fort, Arizona					69.9	21.1	44	e.	4	1.8		2 cs	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.83	757.7	29.85	758.2	75	23.9	90	sw.	23	10.3		4 k	0	sw.		0	0	fair	R. M. Crawford.
Helena, Montana	25.77	654.5	29.89	759.2	51	10.0	74	calm	0	0		0	0			0	0	clear	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.42	721.9	29.76	755.9	58.9	14.9	91	se.	14	6.3			10 s			0.59	15.0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.11	739.4	29.89	759.2	65.6	18.7	62	w.	4	1.8		0	0			0	0	clear	O. F. R. Wappenhans.
Indianola, Texas	29.95	760.7	29.98	761.5	81.2	27.3	82	s.	7	3.1		0	3 ks		s.	0	0	clear	I. A. Reed.
Jacksonville Florida	29.92	760.0	29.96	761.0	80.0	26.7	82	sw.	4	1.8		3 ck	0			0.03	0.8	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.29	744.0	29.93	760.2	72.0	22.2	71	calm	0	0		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762.0	84.0	28.9	72	calm	0	0		0	3 k		se.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.82	757.4	29.84	757.9	74	23.3	87	w.	15	6.7		0	4 k		w.	0	0	fair	H. Mc P. Baldwin
Knoxville, Tennessee	28.97	735.8	29.98	761.5	70.7	21.5	80	calm	0	0		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.14	740.1	29.90	759.4	65	18.3	68	sw.	4	1.8		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	28.99	736.3	29.86	758.4	70	21.1	84	s.	5	2.2		5 k	0	sw.		0	0	fair	A. W. Browne.
Lewiston, Idaho	29.11	739.4	29.93	760.2	56.5	13.6	51	e.	1	0.4		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.63	752.6	29.94	760.5	77	25.0	85	calm	0	0		4 c	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.50	749.3	29.89	759.2	61	16.1	93	w.	1	0.4			10 s		sw.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.37	746.0	29.92	760.0	73	22.8	66	w.	3	1.3		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.17	740.9	29.84	757.9	78	25.6	45	w.	4	1.8		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.04	737.6	29.68	753.9	53.0	11.7	86	nw.	12	5.4			10 s		nw.	inap.	inap.	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.87	758.7	29.88	758.9	75.0	23.9	90	w.	11	4.9		4 cs	0	w.		0.10	2.5	fair	William Daly.
Maginnis, Fort, Montana	25.53	648.5	29.86	758.4	60	15.6	56	se.	10	4.5		0	0			inap.	inap.	clear	F. Burke.
Marquette, Michigan	29.08	738.6	29.80	756.9	59	15.0	70	nw.	16	7.2		0	0			0.98	24.9	clear	J. Gilligan.
Memphis, Tennessee	29.63	752.6	29.96	761.0	79	26.1	82	calm	0	0		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.12	739.6	29.86	758.4	61	16.1	78	w.	7	3.1		0	0			0.08	2.0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.95	760.7	29.99	761.7	79.4	26.3	86	w.	3	1.3		1 c	0			0.06	1.5	clear	C. A. Read.
Montgomery, Alabama	29.70	754.4	29.93	760.2	80	26.7	73	sw.	3	1.3		0	0			0.03	0.8	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.91	734.3	29.88	758.9	54	12.2	72	s.	8	3.6		0	0			0	0	clear	H. White.
Mt. Washington, N. H.	23.71	602.2	29.83	757.7	49.0	9.4	100	s.	40	17.9			10n;fg		s.	0.43	10.9	light rain	S. W. Beall.
Nashville, Tennessee	29.40	746.7	29.96	761.0	73.5	23.1	84	n.	1	0.4		4 c	0	w.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.62	752.3	29.73	755.1	65	18.3	100	se.	4	1.8			fg.			0.05	1.3	dense fog	J. H. Sherman.
New London, Connecticut	29.74	755.4	29.80	756.9	63	17.2	100	s.	7	3.1			10s;fg			0.14	3.6	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.00	762.0	80.5	26.9	85	w.	4	1.8			10 k		w.	0	0	cloudy	M. Herman.
New York, New York	29.59	751.6	29.76	755.9	67	19.4	100	calm	0	0			fg.			0	0	dense fog	G. E. Franklin.
Norfolk, Virginia	29.79	756.7	29.82	757.4	82.2	27.9	62	nw.	6	2.7		0	hz.			0.02	0.5	clear	Wm. Davis.
North Platte, Nebraska	26.87	682.5	29.67	753.6	68.6	20.3	88	se.	6	2.7		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.02	762.5	30.06	763.5	50.0	10.0	72	sw.	1	0.4			10 s			inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	28.66	728.0	29.80	756.9	70.2	21.2	78	se.	4	1.8		0	8s;ks		sw.	0.24	6.1	cloudy	A. Pollak.
Ooglaamie, Alaska	30.15	765.8	30.17	766.3	26.8	— 2.9	100	ne.	12	5.4		0	8s;fg		ne.	inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.35	745.5	29.67	753.6	66.5	19.2	57	sw.	11	4.9		8 k	0	sw.		0.05	1.3	cloudy	J. G. Linsley.
Palestine, Texas	29.50	749.3	30.04	763.0	75.0	23.9	90	s.	2	0.9			10 s		sw.	0	0	cloudy	J. W. Byram.
Pensacola, Florida	29.95	760.7	29.98	761.5	80.8	27.1	85	w.	4	1.8		0	1 k			0.10	2.5	clear	M. McGauran.
Philadelphia, Pa	29.68	753.9	29.78	756.4	73	22.8	83	nw.	8	3.6		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.03	457.7	29.85	758.2	35	1.7	85	sw.	24	10.7		1 cs	0	sw.		0	0	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.00	736.6	29.79	756.7	63.5	17.5	68	s.	8	3.6		3 c	0	w.		0.39	9.9	clear	W. A. Reid.
Poplar River, Montana	27.66	702.6	29.76	755.9				sw.			6	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	28.97	735.8	29.64	752.8	57.0	13.9	74	nw.	12	5.4			10 s		nw.	0.07	1.8	cloudy	M. H. Perry
Portland, Maine	29.73	755.1	29.78	756.4	61	16.1	90	s.	8	3.6			10n;fg			0.31	7.9	light rain	W. W. Eichelberger
Portland, Oregon	29.94	760.5	30.01	762.2	57.0	13.9	86	nw.	2	0.9			10 s			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					76	24.4	74	sw.	18	8.0		3 c	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.76	628.9	29.78	756.4	52.2	11.2	38	s.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.77	756.1	29.80	755.9	64	17.8	92	s.	12	5.4			10s;fg		s.	0.07	1.8	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.49	749.0	29.84	757.9	66	18.9	53	s.	5	2.2		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.47	748.5	30.02	762.5	54.2	12.3	71	n.	3	1.3			10 s		n.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.76	755.9	29.83	757.7	58.0	14.4	80	se.	8	3.6		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.97	761.2	70.2	21.2	77	w.	2	0.9		2 cs	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.79	756.7	29.82	757.4	54	12.2	80	e.	12	5.4		0	6 ks		e.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.03	737.3	29.87	758.7	60.5	15.8	84	calm	0	0			10 s			0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.01	737.1	29.87	758.7	53	11.7	93	s.	3	1.3		hz.	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.58	649.7	29.80	756.9	66	18.9	35	s.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.77	756.1	29.84	757.9	62.0	16.7	86	n.	3	1.3			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.72	754.9	29.75	755.6	66.0	18.9	100	sw.	4	1.8			fg.			0.20	5.1	dense fog	B. A. Blundon.
Sanford, Florida	29.91	759.7			82.6	28.1	60	s.	5	2.2		2 k	0	sw.		0	0	clear	J. B. Marbury.
San Francisco, California	29.84	757.9	29.91	759.7	52.5	11.4	93	w.	22	9.8			3s;fg		w.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.84	757.9	29.93	760.2	80	26.7	72	w.	8	3.6		3 c	0			0.20	5.1	clear	H. W. Ford.
Shaw, Fort, Montana	26.28	667.5	29.85	758.2	53	11.7	69	sw	5	2.2		5 k	0	w.		0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.74	755.4	29.97	761.2	76.7	24.8	86	s.	2	0.9		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.72	729.5	29.92	760.0	72	22.2	87	s.	4	1.8		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.96	761.0	30.02	762.5	47.1	8.4	77	w.	3	1.3			10 ks		w.	0.10	2.5	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.47	748.5	29.93	760.2	73.0	22.8	84	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.84	757.9	29.88	758.9	79.0	26.1	88	w	8	3.6		1 c	3 k	w.	w.	0.27	6.9	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.93	709.4	29.97	761.2	53	11.7	80	sw.	10	4.5		3 c	0	w		0	0	clear	John F. Hemenway.
Springfield, Illinois	29.29	744 0	29.96	761.0	65.5	18.6	73	nw.	2	0.9		4 c	0	w.		0	0	fair	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	26.95	684.5	29.87	758.7	72	22.2	82	se.	10	4.5		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona					71	21.7	59	calm			0	3 ck	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.07	738.4	29.75	755.6	66	18.9	63	w.	17	7.6		4 ok	0	nw.		0	0	fair	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.72	754.9	29.75	755.6	44	6.7	83	s.	4	1.8			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					60	15.6	35	sw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.76	755.9	30.01	762.2	76.0	24.4	88	s.	2	0.9		3 c	0			inap.	inap.	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.72	754.9	29.83	757.7	72.5	22.5	59	w.	2	0.9		2 c	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.91	658.1	29.68	753.9	63.4	17.4	54	sw.	4	1.8		8 c	0	w.		0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.84	757.9	29.88	758.9	77.0	25.0	85	w.	3	1.3		1 c	0			0.77	19.0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.58	725.9	29.86	758.4	62	16.7	100	nw.	17	7.6			10 n			0.93	23.6	light rain	J. H. Atfield.
Yuma, Arizona	29.50	749.3	29.64	752.8	71.1	21.7	83	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.00	762.0	81	27.2	80	e.	4	1.8			10 s		e.	0.03	0.8	cloudy	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77	25.0	91	se.			2	5 ck	5 k	e.		0.300	7.6	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	746.0	29.93	760.2	80	26.7	89	calm			0		10 ks		n.	0.70	17.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75	23.9	92	ne.			1					0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	30.32	770.1	30.38	771.6	58.0	14.4	94	nw.	10	4.5		2 k	1 s	nw.	nw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 45° 39′, E. 13° 45′	29.96	761.0	69	20.6	80	wsw.			1		1	wsw.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.00	762.0	75	23.9	68	ene.			1		6	ene.						d. clouds.
H. M. S. Gannet, N. 36° 50′, W. 18° 40′	30.29	769.4	65	18.3	67	nne.			5		9	ne.				4	ne.	d. clouds.
H. M. S. Himalaya, N. 36° 16′, W. 4° 18′	29.96	761.0	77	25.0	66	ene.			1		2					1	ene.	d. clouds.
H. M. S. Minotaur, Arosa Bay, Spain	30.14	765.5	55	18.3	66	nne.			2		1					1	wnw.	blue sky.
H. M. S. Opal, Sierra Leone, Africa	29.96	761.0	86	30.0	80	ene.			1		3	calm						d. clouds.
H. M. S. Superb, N. 44° 53′, E. 13° 48′ *	30.00	762.0	69	20.6	70	wsw.			3		4	wsw.				1	wsw.	d clouds.
H. M. S. Thetis, N. 36° 56′, W. 17° 15′	30.38	771.6	64	17.8	67	nne.			5		6					3	nne.	d. clouds.
H. M. S. Tenedos, Fortune Bay, N. F.	30.25	768.3	58	14.4	88	sw.			1		3	sw.						d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	29.72	754.9	61	16.1	88	se.	12	5.4			10		se.	0.05	1.3			foggy.
U. S. S. Lancaster, Kronstadt, Russia	29.72	754.9	75	23.9	90	calm			0		2		calm			sm'h		fair
U. S. S. Nipsic, N. 41° 17′, W. 60° 08′*	30.14	765.5	67	19.4	74	sse.			2		8		ese.			sm'h		fair.
U. S. S. Portsmouth, off Conimicut, R. I.	29.80	756.9	66	18.9	94	s.			3		10							overcast.
U. S. S. Powhatan, Port Royal, S. C.	29.87	758.7	80	26.7	77	w.			2		2							clear.
U. S. S. Quinnebaug, Gaboon river, Guinea	30.01	762.2	79	26.1	78	s.			2		5		s.			sm'h		fair.
U. S. S. Saratoga, Newport, R. I.	29.81	757.2	64	17.8	94	sse.			3		10		sse.	light	light	sm'h		overcast.
U. S. S. Vandalia, Port au Prince, Hayti, W. I.	30.03	762.7	82	27.8	71	ese.			1		8							fair.
U. S. S. Yantic, N. 46° 33′. W. 52° 45′	30.27	768.8	45	7.2	100	ne.			2		10					sm'h		foggy.
Cottica, N. 16° 35′, W. 57° 16′	30.10	764.5	81.5	27.5	77	ene.			4		2							blue sky.
May Huise, N. 7° 37′, W. 25° 50′	30.01	762.2	83	28.3	75	nne.			1		7							d. clouds.
S. S. St. Kilda, N. 7° 03′ W. 58° 14′	30.04	763.0	81	27.2	77	ne.			3		3							blue sky.
H.P.M.S. Rio Lima, N. 20° 32′, W. 20° 44′	30.18	766.5	75.2	24.0	88	ne.			3		3					3		d. clouds.
S. S. British Crown, N. 43° 03′ W. 49° 47′ †	30.01	762.2	46	7.8		ne.			4		0			0	0	sm'h		dense fog.
S. S. British Prince, N 45° 28′ W. 39° 37′ †	30.22	767.6	69	20.6		sse.			4					3 h'r	3 h'r	sm'h		foggy.
S. S. Illinois, N. 52° 54′, W. 5° 36′	29.83	757.7	51	10.6		ne.			5		9		nne.			sm'h	nw.	cloudy.
S. S. Lord Clive, N. 40° 32′, W. 55° 56′ *	29.66	761.0				ne.			3		9		ne.	0	0	str'g	ene.	cloudy.
S. S. Ohio, Liverpool, Eng †	29.82	757.4	58	14.4		e.			4		10		w.	8 h'r	8 h'r			cloudy.
S. S. Pennsylvania, Philadelphia, Pa†	29.87	758.7	76	24.4		e.			5		10			0	0			overcast.
S. S. British Princess, N. 39° 50′, W. 73° 00′			67	19.4		sw.			5		5		ssw.	0	0	sm'h	e.	fine.
S. S. Scandinavian, Charlestown, Mass	29.76	755.9	68	20.0		sse.			2		9							d. clouds.
S. S. Grecian, N. 49° 15′, W. 66° 23′	29.83	757.7	56	13.3	87	calm			0		5?		s.	3 h'r	3 h'r			cloudy?
S. S. Polynesian, N. 50° 27′, W. 42° 40′	30.24	768.1	57	13.9		nw.			4		10		nnw.	0	0	sm'h	sw.	overcast.
S. S. Prussian, N. 50° 19′ W. 36° 31′	30 11	764.8	59	15.0		ssw.			2		0			0	0	mod.	sw.	foggy.
S. S. Manitoban, N. 51° 25′, W. 33° 33′	30.18	766.6	58	14.4	82	w.			4		10		w.	0	0	mod	w.	overcast.
S. S. Alvo, Fijardo, Porto Rico, W. I *	30.08	764.0	79	26.1		e.			3		5		calm	0	0			fine.
S. S. Andes, Port Antonio, Jamaica, W.I.						e.			2		3		e.	0	0			
S. S. Alene, N. 9° 47′ W. 81° 12′ †	29.92	760.0				nw.			2		2		n.	0	0	sm'h		fine.
S. S. Anchoria, N. 48° 04′, W. 44° 38′ †	30.24	768.1				ne.			2		fg.		ne.	4 h'r	4 h'r	sm'h		dense fog.
S. S. Dorian, Lisbon, Portugal	30.18	766.6				ene.			6		0			0	0			clear.
S. S. Devonia, N. 55° 16′, W. 10° 40′ *†	30.15	765.8	53	11.7		n.			4		5?		nne.			mod.	nw.	clear?
S. S. Furnessia, N. 41° 49′, W. 45° 23′ †	29.94	760.5	69	20.6	95	ssw.			6		10		ssw.	0	0	long	sw.	overcast
S. S. Carroll, Charlottetown, P. E. Island*†	30.15	765.8	63	17.2	94	se.			3		10		se.	rain	rain			light rain.
S. S. Llandaff City, Bristol, Eng†	29.85	758.2	58	14.4		w.			1		7		w.	sh'rs	sh'rs			showery.
S. S. Scythia, New York, N.Y.	29.72	754.9	70	21.1	95													
S. S. Colina, N. 54° 19′, W. 24° 08′ †	30.15	765.8				sw.			2		8		sw.	3 h'r	3 h'r	mod	sw.	hazy.
S.S. Canada, N. 47° 45′, W. 30° 34′	30.35	770.8	60.8	16		w.			1	ck	0	w.		0	0	sm'h	n.	hazy.
S. S. Arizona, N. 48° 36′, W. 38° 01′	30.10	764.5	60	15.6		s.			4		10		sw.	2 h'r	2 h'r	mod.	sw.	rain & fog.
S. S. Wyoming, N 50° 36′, W. 19° 53′	30.31	769.9	56	13.3		n.			4		7		nne.	0	0	mod.	nw.	fair.
S. S. Bohemia, N. 49° 59′, W. 4° 38′						ne.			3-5		4		ne.	0	0	long	ne.	fair.
S. S. Frisia, N. 45° 53′, W. 35° 10′	30.34	770.6				sw.			3		4		sw.	0	0	sm'h	wsw.	fair.
S. S. Gellert, New York, N. Y	29.75	755.6	70	21.1	95	wsw.			3		5?		wnw.	2 h'r	2 h'r			cloudy?
S. S. Rugia, N. 40° 43′, W. 59° 11′	30.23	767.8	72	22.2		e.			4		0			0	0	long	e.	clear
S. S. Silesia, Hamburg, Germany	29.90	759.4	67.0	19.4		wsw.			4		6			0	0			cloudy.
S. S. Mentmore, N. 40° 10′, W. 58° 49′*†	30.28	769.1				sse.			4		2?		e.	0	0	sm'h		cloudy?
S. S. Virginian, N. 51° 47′ W. 15° 28′ *	30.11	764.8	60	15.6		wsw.			4		10		wsw.	4 h'r	4 h'r	mod.	nw.	overcast.
S. S. Archimedes, N. 46° 07′, W. 31° 42′	30.28	769.1				sse.			3		10		sse.	0	0	sm'h	s.	overcast
S. S. Hevelius, N. 51° 13′, E. 4° 30′ †	30.02	762.5	64	17.8		nw.			3		6		nnw.	1 h'r	1 h'r	sm'h		fair
S. S. Colorado, Galveston, Texas†	30.02	762.5	80	26.7		se.			1		3		se.	0	0			clear.
S. S. Chalmette, N. 29° 04′. W. 80° 30′ †	30.09	764.3	79	26.1		sw.			4		1			1 h'r	1 h'r	sm'h		clear.
S. S. City of Merida, N. 39° 19′, W. 74° 00′			72	22.2		sw.			1		5		sw.	1 h'r	1 h'r	mod.	se.	fair.
S. S. Denmark, New York, N. Y †	29.81	757.2	71	21.7		var.			1		5			0	0			light fog.
S. S. England, N. 40° 50′, W. 53° 15′	30.07	763.8				ne.			4		10		ne.	0	0	mod.	ne.	overcast.
S. S. Helvetia, New York, N. Y.	29.79	756.7	71	21.7	100	calm			0		10			0	0			foggy.
S. S. Holland, N. 46° 43′, W. 28° 59′	30.32	770.1	62	16.7		ssw.			3		8		sw.	0	0	sm'h	sw.	cloudy.
S. S. Donau, N. 42° 22′, W. 54° 48′	30.29	769.4				n.			4		8		n.	2 h'r	2 h'r	mod.	n.	hazy.
S. S. Elbe, N. 49° 16′, W. 20° 21′	30.37	771.4	58	14.4	88	nw.			5-6		7		nw.	0	0	long	nw.	fair.
S. S. Hohenstaufen, off Dover, Eng	29.88	758.9				s.			4		9		s.	0	0	sm'h	s.	cloudy.
S. S. Neckar. N. 49° 40′, W. 7° 20′	29.94	760.5	56.0	13.3	81	nnw.			6		6		nw.	rain	rain	cross	nnw.	fair.
S. S. Ohio, N. 39° 51′, W. 50° 53′	30.20	767.1				ene.			1		5			4 h'r	4 h'r	light	n.	fair.
S. S. Salier, N. 46° 30′, W. 50° 30′*	30.13	765.3	43	6.1	83	n.			5		10		nne.	0	0	sm'h	ne.	misty.
S. S. Werra, N. 42° 05′, W. 54° 03′	30.21	767.3	56	13.3		nne.			4		2		nne.	2 h'r	2 h'r	sm'h	n.	clear.
S. S. City of Augusta, New York, N. Y. †	29.91	759.7				ssw.			4		6		ssw.	0	0			fair.
S. S. Colon, Aspinwall, Panama†	29.93	760.2	82	27.8	83	wsw.			2		10		wsw.	1 h'r	1 h'r	sm'h		overcast.
S. S. Muriel, Antigua, W. I	30.19	766.8	82	27.8		ene.			2		10		ene.	0	0	sm'h		overcast.
S. S. Orinoco, Bermuda, Atlantic			79	26.1		sse.			1		4		se.	0	0			fair.
S. S. Belgenland, N. 49° 20′, W. 10° 35′			55	12.8	93	nw.			6		8		nnw.	sq 'lls	sq 'lls	r'gh	nnw.	squally.
S. S. Nederland, N. 41° 39′, W. 61° 09′			62	16.7		se.			2		8		e.	0	0	mod.	e.	cloudy.
S. S. Rhynland, N. 48° 35′, W. 22° 30′			63	17.2	89	wnw.			3		4		wnw.	0	0	sm'h		fair.
S. S. Pennland, Antwerp, Belgium	30.00	762.0	63	17.2	94	w.			2		9		w.	0	0			clear.
S. S. Switzerland, N. 40° 54′ W. 53° 36′ †	30.22	767.6				ne.			2		10		ne.	0	0	mod.	n	cloudy.
S. S. Waesland, Jersey City, N. J.	29.75	755.6	80	26.7		wsw.			3		2		w.	0	0			clear.
S. S. P. Caland, N. 42° 45′, W. 43° 10′	30.18	766.6	70.3	21.3	95	sse.			4		4		s.			3	s.	fair.
S. S. Schiedam, N. 41° 26′, W. 59° 50′	30.17	766.3	66	18.9	84	sse			4		2		w.	0	0	mod.	ene.	clear.
S. S. W. A. Scholten, N. 49° 03′, W. 19° 21′	30.25	768.3	59.0	15.0	82	nw.			6		5		nw.	1 h'r	1 h'r	3	nw.	fair.
S. S. Belize, Kingston, Jamaica, W.I *†	30.12	765.0	85	29.4		s.			4		5		e	0	0	sm'h		fair.
S. S. Valencia, Curacao, W. I†	30.12	765.0	81.5	27.5	80	ene.			6		4		ene.	0	0			fair.
S. S. State of Nevada, N. 44° 49′, W. 44° 58′ †	30.15	765.8	70	21.1		sse.			5		2		s.	0	0	light	sse.	clear.
S. S. Thingvalla, New York, N. Y †	29.77	756.1	73.6	23.1		wsw.			3		3		wsw.	0	0			clear.
S. S. Toledo, N. 33° 00′, E. 25° 20′ *†	30.09	764.3	82	27.8		w.			3		0			0	0			clear.
S. S. Romano, New York, N. Y	29.87	758.7	69	20.6		calm			0		9			0	0			cloudy.
S. S. Oregon, N. 50° 21′, W. 43° 45′	30.19	766.8	53	11.7		nnw.			1		9		nnw.			mod.	nnw.	cloudy.
S. S. Daniel Steinmann, Montreal, Canada †	29.63	752.6	72	22.2		calm			0		10		sse.	4 h'r	4 h'r			dull.
S. S. Plantyn, N. 40° 15′, W. 69° 34′	29.77	756.1							2		0			0	0	sm'h	s.	clear.
S S. Norman, N. 39° 56′, W. 75° 08′	29.83	757.7				sse.			1		0			0	0			clear.
S. S. Saxon, N. 39° 55′, W. 73° 30′ †	29.73	755.1				se.			4		5							fair.
S. S. Britannic, N. 50° 08′, W. 28° 30′ †	30.44	773.2	59	15.0		wsw.			3		10		w.	0	0	sm'h	wsw.	overcast.
S. S. Celtic, New York, N. Y. †	29.77	756.1	70	21.1		sw.			1		2		sw.	0	0			clear.
S. S. Iowa, N. 47° 27′, W. 35° 38′ †	30.30	769.6	62	16.7		sse.			2		2		sse.	0	0	light	se.	clear.
S. S. Antonio Lopez, Cadiz, Spain	29.97	701.2	78.5	25.8	52	e.			5		4			0	0			fair.
Schr. Abbie H. Gheen, Brooklyn, N.Y †	29.86	758.4	72	22.2		calm			0									foggy.
Bg. Abbie Clifford, N. 42° 27′, W. 69° 05′ †	29.89	759.2	60	15.6		sse.			4		10		sw.	½ h'r	½ h'r	mod.	se	foggy.
Bk. Aquidneck, N. 16° 24′, W. 34° 50′ *†	30.10	764.5				e.			4		0			0	0	light	ese.	clear.
Schr. Anna A. Holton, N. 26° 58′, W. 73° 26′ *†	30.08	764.0	84	28.9		ssw.			2		2		s.	0	0	sm'h	s.	clear.
Schr. Arthur Burton, Boston, Mass †	29.81	757.2				s.			2		10		s.	0	0			cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
Bk. Aureola, N. 46° 24′, W. 30° 38′ †	30.32	770.1	69	20.6		s.			5		9		s.	0	0	sm'h		foggy.
Bk. Arda, Sackville, N. B†	29.95	760.7				wsw.			4		3		wsw.	0	0			clear.
Bk. Alba, N. 39° 05′, W. 74° 16′ *†	29.86	758.5	70.7	21.5		wsw.			1				wsw.	0	0			
Bg. Belle of the Bay, N. 29° 10′, W. 85° 02′†	29.94	760.5				wsw.			5		4		w.	rain	rain	sm'h	sw.	clear.
Bk. Bayonaise, N. 31° 26′, W. 20° 56′			68.0	20		ne.			5		4		ne.			r'gh	ne.	fine.
Schr. C. R. Flint, Tampico Bar, Mexico†	29.99	761.7	79	26.1		sw.			1		5		se.	2 h'r	2 h'r	long	ese.	fair.
Bk. Cato, N. 69° 09′, E. 12° 54′ *†	30.07	763.8				nnw.			3		3		n.			sm'h	n.	clear.
S. Criterion, N. 39° 50′, W. 69° 42′ *†	29.74	755.4				s.			3		9		ssw.	0	0	short	wsw.	hazy.
Schr. Clotilde, Tuspan Bar, Mexico*†	29.93	760.2	80	26.7		ssw.			1		2		e.	6 h'r	6 h'r	sm'h	se.	
S. S. D. J. Foley, N. 28° 17′, W. 74° 05′*†	30.02	762.5	81	27.2	74	ssw.			2		2		wsw.	0	0	long	ne.	clear.
Bkt. David A. Preston, N. 28° 30′, W. 76° 30′						sw.			6		2		sw.	0	0	sm'h		
S. E. J. Spicer, N. 42° 10′, W. 63° 45′	30.07	763.8	58	14.4	94	ssw.			5		10		wnw.	0	0	mod.	se.	cloudy.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′*†	29.86	758.4	58	14.4		ne.			6		4		ssw.	5 h'r	5 h'r	sm'h		hazy.
U. S. Fish Com. S. S. Fish Hawk, Hampton Roads, Va†	29.95	760.7	78	25.6	91	nw.			3		1		calm	0.30	7.6			clear.
S. Festina Lente, N. 48° 18′, W. 69° 53′	30.11	764.8	48	8.9		s.			5		fg.			0	0	mod.	s.	dense fog.
Sch. F. E. Waters, N. 28° 34′, W. 74° 37′*†	30.10	764.5				sw.			1				sw.	0	0	sm'h	ene.	fair.
Bgt. George, N. 20° 15′, W. 61° 20′*†	30.07	763.8	79	26.1		s.			2		2			0	0	mod.	n.	fair.
Bk. Galeon, N. 30° 53′, W. 79° 15′†	29.97	761.2	82	27.8		nw.			2		5		nw.	driz.	driz.	sm'h	s.	drizzling.
Bk. Heinrich & Tonio, N. 40° 56′, W. 54° 10′†	30.10	764.5	59.5	15.3		nnw.			4		10		n.	0	0	mod.	n.	cloudy.
S. Hedwig, N. 40° 45′, E. 18° 50′	30.10	764.4	78.1	25.6	67	se.			1		3		var.	0	0	2	nnw	
Bk. Hattie G. McFarland, N. 38° 47′, W. 74° 21′†	29.74	755.4	68	20.0		nw.			4		3		nw.	3 h'r	3 h'r	long	se.	fine.
Bk Harriet S. Jackson, N. 40° 05′, W. 71° 35′						ssw.			3		5		wsw.	½h'r	½h'r	long	se.	foggy.
Schr. Isabel Alberto, N. 29° 52′, W. 81° 15′†	29.92	760.0				wsw.			2		2		w.	hv'y	h'vy	light	sse.	clear.
Bk. Johanne, N. 45° 29′, W. 54° 32′ *†	30.15	795.8	45	7.2		nne.			3		10		var.	1 h'r	1 h'r	mod.	ne.	dense fog.
Schr. John L. Thomas, Old Providence Island, C. A*†	30.04	763.0				ene.			3		2		e.	0	0			fine.
Bg. John Wesley, N. 15° 22′, W. 26° 53′ *†	29.95	760.7	79	26.1		n.			5		2			0	0	mod.	nne.	hazy.
Schr. Jennie N. Huddell, Charleston, S. C.†	29.92	760.0	82	27.8		w.			2		2			sh'rs	sh'rs			clear.
S. J. W. Gildemeister, N. 24° 37′, W. 34° 54′	30.30	769.6	78.8	26	84	ene.			4–5		9 k		var.	0	0	4	se.	overcast.
Bg. L. & W. Armstrong, N. 20° 46′, W. 57° 05′ *†	30.16	766.1				s.			1		2		s.	0	0	sm'h	sse.	fine.
Light-house Tender Laurel, off Boca Grande, Fla†	30.10	764.5	83	28.3		ese.			1–2		2		se.	0	0			clear.
Bk. Louise Adelaide, N. 34° 04′, W. 75° 45′			81	27.2		w.			2		6		sw.	0	0	sm'h	sw.	fair.
S. S. Madrid, N. 36° 53′, W. 54° 12′†	30.17	766.3	71	21.7	90	nne.			2		6		var.	0	0	sm'h	nne.	fair.
Schr. Minnie A. Bonsall, Haverstraw, N. Y†	29.75	755.6	74	23.3		sw.			2				s.	0	0			fair.
Bgt. Myrtle, Mayagues, Porto Rico, W. I*†	30.12	765.0				e.			2				e.	0	0			fair.
Schr. Maggie Abbott, N. 27° 30′, W. 75° 02′ †	30.13	765.3				calm			0		0			0	0			
Bk. National Eagle, N. 39° 53′, W. 26° 50′						se.			5		5		ese.	0	0	mod.	se.	fair.
Bg. O. C. Clary, N. 20° 34′, W. 57° 07′ *†	30.10	764.5				ssw.			2		4		sw.			sm'h	ssw.	fair.
Bk. Ottawa, off Copenhagen, Denmark	29.89	759.2	60	15.6		nne.			5		6		ne.	0	0	sm'h		fair.
S. Paramita, N. 29° 00′, W. 37° 50′†	30.33	770.4	78	25.6		ne.			3		1		ne.	0	0	sm'h		clear
S. S. Raleigh, N. 35° 10′, W. 74° 00′†	29.86	758.4	78	25.6		sw.			4		3		sw.	0	0	mod.	sw.	clear.
S. Rudolph, N. 45° 47′, W. 24° 28′			63.5	17.5		w.			3		2		sw.	0	0	mod.	var.	fair.
Bg. Rising Sun, Barbadoes, W. I.†	30.10	764.5	85	29.4		e.								0	0			
Bk. Rosino, N. 38° 45′, W. 14° 00′ *			66	18.9		nne.			6		10		ne.	0	0	r'gh	n.	cloudy
Bk. Sunbeam, N. 41° 36′, W. 32° 55′†	30.38	771.6	68	20 0	79	se.			3		8		s.	0	0	mod.	e.	cloudy.
Bk. Southern Belle, N. 23° 35′, W. 53° 54 †	30.11	764.8	78	25.6		s.			3–4		8		sse.	sh'rs	sh'rs	h'vy	wnw.	squally.
S. Sovereign of the Seas, N. 21° 57′, W. 37° 27′ *†	30.30	769.6	80	26.7	82	ene.			5		3		e.	2 h'r	2 h'r	r'gh	se.	hazy.
Bg. Teneriffe, N. 39° 52′, W. 67° 14′ *	29.77	756.1				sse.			8		10		s.	0	0	mod.	s.	misty.
Bk. Tuck Sing, N. 23° 28′, W. 84° 25′ *†	29.95	760.7				e.			3		2		ese.	0	0	sm'h		fine.
Schr. Viola Reppard, Gardiner, Me †	29.84	757.9	66	18.9		s.			2		10		s.	18 h'r	18 h'r			rainy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I *†.	30.00	762.0	80	26.7		calm			0		4		ssw.	0	0			fair.
Bgt. Sunlight, N. 25° 28′, W. 56° 42′*†	30.26	768.6				ssw.			2		10		ssw.	6 h'r	6 h'r	mod.	w.	light rain.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay†	30.25	768.3	54	12.2	87	ssw.			5		4	s.				2	ssw.	squally.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.24	768.1	65	18.3		sw.			2		4							d. clouds
H. M. S. Sylvia, Montevideo, Uruguay	30.29	769.4	38.7	3.7	90	sse.			1		4							d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.25	768.3	50	10.0	79	ssw.	12	5.4			8		ssw.	0	0	mod.	s.	fair.
U. S. S Galena, Montevideo, Uruguay*	30.21	767.3	49	9.4	64	ssw.			3		8		s.			mod.	sse.	cloudy.
S. Annie M Law, S. 35° 50′, E. 18° 37′ *†	30.30	769.6	59	15.0		wsw.			1		0			0	0	long		clear.
S. David Stewart, S. 1° 55′, W. 29° 22′ †	29.88	758.9				ese.			3		2		se.	0	0	mod.	se.	clear.
S. Wm. McGilvery, S. 40° 46′, W. 59° 07′ *†	30.25	768.3	46	7.8	77	se.			4		9		s.	0	0	sm'h		
S. S. Olbers, Rio de Janeiro, Brazil †	30.14	765.5	82	27.8	67	nne.			1					0	0	sm'h		fine.
Bk. Achille F. S. 34° —′, W. 46° —′ †	30.07	763.8	57.5	14.2	83	ssw.			3		5		s.	0	0	long	s.	fair.
Bk. Alpheus Marshall, S. 8° 29′, W. 21° 42′ *†	29.92	760.0				ese.			3		5		ese.	0	0			fair.
Bk. Ceylon, S. 12° 15′, W. 11° 25′ *†	30.18	766.6	78	25.6	78	ese.			4		5		e.	0	0	mod.	ese.	fair.
Bk. Gray Eagle, S. 23° 14′, W. 33° 12′ *†	30.10	764.5				n.			7		2		nne.	0	0	long	e.	clear.
H. P. M. S. Duque de Terceira, Lobito, Benguela	30.02	762.4	74.8	23.8	69	w.			1		0			0	0			blue sky
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.83	757.7	70	21.1	80	nw.			1		6	nnw.						d. clouds.
H. M. S. Champion, East coast of Borneo	29.84	757.9	82	27.8	87	sw.			1		9							d. clouds.
H. M. S. Espiegle, N. 5° 54′, E. 169° 43′	29.87	758.7	81	27.2	83	se.			1		10							d. clouds.
H M. S. Flying Fish, N. 37° 34′, E. 121° 26′	29.84	757.9	70	21.1	85	w.			1		6	w.						d. clouds.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.89	759 2	78.5	25.8	89	nw.			1		7	nne.						d. clouds.
H. M. S Zephyr, N. 33° 44′, E. 136° 46′	29.84	757.9	75	23.9	100	s.			3		1	wsw.				2	e.	blue sky.
H. P. M. S. Tamega, Macao, China	29.89	759.3	85.1	29.5	75	sw.			3		2			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.80	758.4	74	23.3	88	ssw.			4		0			0	0			clear.
U. S. S. Adams, Security Bay, Alaska†	29.98	761.5	47	8.3	92	nnw.			2		10					sm'h		cloudy.
H. M. S. Essex, Honolulu Sandwich Ids.	30.08	764.0	75	23.9	72	ne.			2		2		ne.			sm'h		clear.
U. S. S. Hartford, N. 20° 10′, W. 157° 55′*	29.95	760.7	77	25.0	82	e.			4		2		e.	0	0	mod.		clear.
U. S. S. Monocacy, Salee river, Corea	29.77	759.1	72	22.2	71	wsw.			1		10		sw.					misty.
U. S. S. Palos, Hong Kong, China	29.79	756.7	88	31.1	73	calm			0		5		calm					fair.
U. S. S. Richmond, Shanghai, China *	29.07	753.6	78	25.6	100	e.			1		10		e.	8.	203.			cloudy.
S. S. Coptic, Yokohama, Japan	29.84	757.9	69.5	20.8	92	calm			0		0			0	0			clear.
S.S. Oceanic, N. 46° 15′, W. 166° 54′	30.37	771.4	47	8.3	92	sw.			4		10		sw.			sm'h	w.	foggy.
S. S. Oregon, Portland, Oregon†	30.04	763.0	55	12.8	93	calm			0		10		nw.					cloudy.
S. S. Willamette, Seattle, Wash. Ter †	30.10	764.5	54	12.2	93	nnw.			1		8		n.	0	0			cloudy.
S. S. Ancon, N. 34° 34′, W. 120° 40′†	29.94	760.5	50	13.3	87	nnw.			5		8		wnw.			mod.	wnw.	cloudy.
S. S. City of Chester, San Francisco, Cal†	29.88	758.9	53	11.7	93	sw.			6		10							overcast.
S. S. Dakota, Seattle, Wash. Ter†	30.03	762.7	54	12.2	87	calm			0		8		w.			sm'h		cloudy.
S. S. Queen of the Pacific, San Francisco, Cal †	29.91	759.7	51	10.6		sw.			5		10			0	0			cloudy.
S. S. City of New York, N. 11° 00′, W. 161° 31′†	29.95	760.7	77	25.0	82	e.			3		10		e.	3 h'r	3 h'r	mod.	se.	squally.
S. S. City of Pekin, N. 45° 32′, W. 148° 20′ †	30.29	769.4	48	8.9	85	wnw.			4		10		wnw.	0	0	small	wnw	cloudy.
S. S. City of Rio de Janeiro, Hong Kong, China †	29.89	759.2	83	28.3	79	sw.			2		2		sw.	0	0	sm'h		clear.
S. S. Colima, N. 7° 46′, W. 79° 49′ †	29.91	759.7	78	25.6	86	n.			3		10		n.	0.15	3.8	small	s.	raining.
S. S. Granada, N. 33° 22′, W. 119° 08′ †	29.87	758.7	59	15.0	94	wnw.			3		9		nw.	0	0		wnw.	gloomy.
S. S. San Blas, N. 15° 33′, W. 96° 36			80	26.7		n.			1		5		calm	1 h'r	1 h'r	sm'h	s.	fair.
S. S. San José, N. 22° 59′, W. 108° 34′ †	29.79	756.7	76	24.4		e.			3		1		e.	0	0	long	sw.	clear.
S. S. Benledi, Nagasaki, Japan*	29.70	755.9	80	26.7	82	var.			0–1		5		ssw.	0	0	sm'h		fair.
S. S. Radnorshire, N. 31° 34′, E. 124° 13′ *†	29.78	756.4				wsw.			1		4		wsw.	0	0	light	sw.	fair.
S. Sacramento, Zebu, Philippine Islands*†	29.95	760.7	83	28.3	79	ne.			2		5		ne.	2 h'r	2 h'r	sm'h		fair.
S. St. David, N. 23° 40′, E. 120° 45′ *†	29.92	760.0	85	29.4	83	sse.			3		6		se.	0	0	light	sse.	fair.
Bk. Xenia, Yang tsi Kiang river, China			82	27.8		ssw.			3		10		sw.	3 h'r	2 h'r			rainy.
H. M. S. Sappho, N. 26° 38′, W. 113° 58′	29.78	756.4	64	17.8	?	nne.			4		1					5	nnw	blue sky.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
U. S. S. Ranger, San Jose, Gautemala	29.88	758.9	76	24.4	86	calm			0		8			0	0	long	w.	cloudy.
S. Henry Failing, Wilmington, Cal†	29.75	755.6	56	13.3		se.			1		5		se.	0	0	sm'h	wnw.	fair.
S. Grecian, Yokohama, Japan †	29.82	757.4	76	24.4	82	ssw.			6		0			0	0			clear
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			56	13.3	81	calm			0		3	sw.						d. clouds
H. M. S. Kingfisher, S. 40° 36′, W. 102° 10′	29.80	756.9	52	11.1		n.			4		10					4	wsw.	showery.
H. M. S. Nelson, Souva, Feejee Ids	29.81	757.2	74	23.3	95	se.			1–3		10							raining.
U. S. S. Iroquois, Valparaiso, Chili	30.00	762.0	49	9.4	93	ese.			1		8							cloudy.
U. S. S. Lackawanna, Callao, Peru*	29.97	761.2	63	17.2	89	sse.			2		10		se.					cloudy.
U. S. S. Onward, Callao, Peru†	30.10	764.5	62	16.7	88	sse.			2		10		se.					misty.
U. S. S. Pensacola, Callao, Peru *	29.96	761.0	63	17.2	94	se.	8	3.6			10			light	light			cloudy.
U. S. S. Wachusetts, S. 11° 17′, W. 142° 23′	29.97	761.2	80	26.7	87	ene.			3		0					mod	nne.	clear.
S. S. Australia, Sydney, N. S. W	30.11	764.8	53	11.7	93	n.			2		2		n.	0	0			clear.
H. M. S. Lark, S. 7° 14′, E. 155° 35′	29.81	757.2	80.3	26.8	89	se.			3		10					3	e.	thund'r shrs
S. S. City of Sydney, S. 31° 08′, E. 179° 10′ *†	30.42	772.7	62	16.7	72	e.			4		8 k		nne.			mod.	nnw.	cloudy.
S. Parker M. Whitmore, S 28° 51′, W. 109° 45′ *†	30.17	766.3	69	20.6		w			2		5		w.	0	0	long	sw.	fair.
S. Storm King, S. 20° 36′ W. 96° 30′ *†	30.27	768.8				se.			4		2		se.	0	0	sm'h	se.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	29.94	760.5	81	27.2	87	sse.			3		2	ese.				3	sse.	d. clouds.
U. S. S. Enterprise, Murundava, Madagascar, Africa*†	30.13	765.3	80	26.7	74	wsw.			3		2		sw.			mod.	wsw.	clear.
U. S. S. Juniata, Colombo, Ceylon, India	29.81	757.2	84	28.9	96	sw.			2		8		sw.	light	light			cloudy.
S. S. Malabar, N. 8° 39′, E. 81° 46′*†	29.76	755.9				sw.			2		5		sw.	0	0	mod.	sw.	fair.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 21, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours			30.00	761.9	71.2	21.8	82	s.			1		0			0	0	clear	Malaterre.
Algiers			30.01	762.3	75.9	24.4	66	w.			7		0			0	0	clear	Thève.
La Galle			30.08	764.0															Fonfrède.
Tunis			30.10	764.6															Jacques.
Saida			29.96	761.0															Pérès.
Tebessa			30.10	764.4	95.7	35.4	11	sw.			7		0			0	0	clear	St. Martin.
Geriville					93.2	34.0	7	n.			6		0			0	0	clear	Forfert.
Laghouat			30.05	763.2	101.1	38.4	8	s.			6		1			0	0	very fair	Abraham.
Biskra			30.07	763.8	98.2	36.8	17	se.			3		0			0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			29.73	755.1	54.8	12.7	89	nne.	21	9.4			10 n			0.243	6.2	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.74	755.4	29.84	757.9	53.5	11.9	76	n.	20	8.9			10			0.03	0.8	squally	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.47	748.5	30.00	762.1	66.2	19.0	76	nw.			3		4			0.094	2.4	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.12	739.6	29.88	759.0	55.4	13.0	75		18.6	8.3			10			0.602	15.3	raining	Dr. Wierzbiski
Eperies	28.98	736.0	29.83	757.7	64.8	18.2	65	w.			2	10 c		e.		0.031	0.8		Julius Mikolik.
Gratz	28.74	730.0	29.95	760.8	68.4	20.2	66	se.			3		8			0	0		Andreas Rospini.
Hermannstadt	28.52	724.5	29.91	759.7	68.0	20.0	50	nw.			5		7			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.65	727.7	29.95	760.8	66.4	19.1	57	ne.			1		3			0.157	4.0	clear	The Staff.
Lemberg	28.79	731.3	29.76	756.0	54.9	12.7	86	w.			5		10			0.150	3.8		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.96	761.0	30.07	763.7	72.7	22.6	77	s.			3		2			0	0		I. R. Hydrographic Office.
Szathmar	29.40	746.8	29.85	758.2	66.4	19.1	81	sw.			5		8			0	0		Joseph Midlinszky, S. J.
Szegedin	29.71	754.5	29.98	761.4	72.0	22.2	42	w.			1		7			0.004	0.1	lightning	Karl Stancel.
Trieste	29.97	761.1	30.06	763.6	73.0	22.8	55	sw.			2		3			0	0		Royal Academy.
Vienna	29.29	743.9	29.99	761.7	66.9	19.4	53	w.			3		2			0	0		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.98	761.5	30.08	764.0	50.1	10.1	58	ene.	7	3.1			9			0	0	overcast	W. Boswell.
Armagh, Observatory	29.79	756.7	30.02	762.5	57.4	14.1	71	se.	5	2.2			9					overcast	S. Call.
Bidston, Liverpool Obs'y			29.98	761.5	57.2	14.0	58	ene.	14	6.3			10					overcast	John Hartnup.
Bolton, Sharples	29.46	748.3	29.99	761.7	55.8	13.2	64	e.	12	5.4			8					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.63	752.6	30.02	762.5	58.1	14.5	56	e.			1		10			0.01	0.3	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	86.0	30.0	65	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	29.80	756.9	29.91	759.7	62.4	16.9	74	ne.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	29.76	755.9	29.89	759.2	59.0	15.0	77	calm					9			blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.71	754.6	29.94	760.5	57.6	14.2	76	wnw.			3		10					overcast	The Staff.
Fort Napier, Natal	27.92	709.2	30.14	765.5	71.5	21.9	54	se.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.58	751.3	29.82	757.4	83.0	28.3	87	ne.			1		6					raining	J. W. Smith.
Galway, Queen's College	29.97	761.2	30.00	762.0	61	16.1	66	nw.			1		2			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.88	758.9	30.11	764.8	75.0	23.9	77	e.			2		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.85	758.2	30.05	763.3	57.2	14.0	52	ne.			1		5					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.70	754.4	29.87	758.7	61.2	16.2	66	sse.			1		10					showery	The Staff.
Guernsey	29.62	752.3	29.91	759.7	58.0	14.4	70	nnw.			1		4					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.84	757.9	29.88	758.9	60.6	15.9	74	s.	3	1.3			6					threatening	The Staff.
Leicester, Museum	29.68	753.9	29.93	760.2	54.0	12.2	90	ne.			2		10					raining	J. C. Smith.
Malta, Mediterranean	30.07	763.8	30.14	765.5	78.0	25.6	92	se.					3					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.06	763.5	30.10	764.5	87.5	30.8	61	s.			2		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.42	747.3	29.95	760.7	52.7	11.5	90	nne.			4		10					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.65	753.1	29.88	758.9	59.0	15.0	76	wnw.			3		6					d. clouds	The Staff.
Plymouth	29.82	757.4	29.90	759.4	58.7	14.8	73	calm			0		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.97	761.2	30.07	763.8	54	12.2	92						8					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.89	759.2	29.96	761.0	80.6	27.0	39	ene.			1		3					d. clouds	W. H. Lyne.
Sheffield	29.72	754.9	30.00	762.0	55.2	12.9	81	ne.			2		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.99	761.7	30.02	762.5	61.4	16.3	52	ne.			2		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	29.90	759.4	30.00	762.0	62	16.7	72	nw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.04	763.0	30.07	763.8	55.6	13.1	74	nw.	16	7.2			8			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.73	755.1	30.12	765.0	81.0	27.2	62	se.	9.3	4.2						0	0	clear	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.					63.0	17.2		calm	0	0			10 n			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.00	762.0	30.05	763.3	61	16.1	89	se.	18	8.0			10 sn			0.056	1.4	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.87	758.7	29.93	760.2	64	17.8	90	s.	14	6.3		2 k	8 ks		s.	0.48	12.2	cloudy	G. A. Blair.
Cornwall, Ontario	29.55	750.6	29.73	755.1	58.2	14.6	89	sw.			2		10 s			0.020	0.5	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.85	758.2	29.90	759.4	56.5	13.6		e.			6		10 n			0	0	misty	H. A. Johnson.
Father Point, Quebec*	29.75	755.6	29.77	756.1	52	11.1	93	ne.	15	6.7		5 c; s	5 k; s	calm	calm	0.05	1.3	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.99	736.3	29.81	757.2	57	13.9	86	sw.	10	4.5		5 ck	0	se.		0	0	fair	James Stewart.
Fredericton, N. B.	29.83	757.7	29.89	759.2	63.5	17.5	92	se.	6	2.7			10 n			0.940	23.9	misty	Prof. Harrison, L. L. D.
Granton, Ontario	28.77	730.7	29.89	759.2	55.0	12.8	100	nw.	2	0.9		9 c	0	w.		0.10	2.5	cloudy	Jas. Grant.
Halifax, N. S*	29.93	760.2	30.06	763.5	56	13.3	93	se.	7	3.1			10 n			0.090	2.3	cloudy	A. Allison.
Hamilton, Ontario	29.41	747.0	29.80	756.9	58.1	14.5	88	sw.			2	8 ck	0	sw.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.46	748.3	29.79	756.7	56	13.3	93	sw.	4	1.8		2 k	2 k	w.	calm	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.18	766.6	30.22	767.6	54.0	12.2	86	sw.			3	8 k	0	sw.		0	0	foggy	C. H. Rigby.
London, Ontario	28.98	736.1	29.87	758.7	56.7	13.7	91	calm					10 ks			0	0	overcast	E. B. Reed.
Montreal, Quebec*	29.55	750.6	29.75	755.6	62	16.7	78	w.	8	3.6			10 s		w.	0.18	4.6	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.52	749.8	29.76	755.9	60.0	15.6	90	sw.			1		10 ks			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.12	739.6	29.81	757.2	52	11.1	100	w.	2	0.9			10 n		w.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.08	738.6	29.78	756.4	68.7	20.4	89	ne.			1	0	8 k			0	0	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.17	740.9	29.84	757.9	59	15.0	94	calm	0	0			10 cs		w.	0	0	cloudy	H Morgan.
Port Stanley, Ontario	29.21	741.9	29.84	757.9	57	13.9	93	w.	2	0.9		5 ck	2 k	w.	w.	0.01	0.3	cloudy	M. Payne.
Quebec, Quebec*	29.40	746.7	29.74	755.4	61	16.1	100	n.	4	1.8			10 ks			0.17	4.3	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.30	744.2	29.75	755.6	56	13.3	90	w.	3	1.3			10 n			0	0	hazy	W. H. McIntyre.
St. Andrews, N. B.	29.81	757.2	29.86	758.4	54	12.2	100	se.	4	1.8			fg.			1.61	40.9	dense fog	
St. John, N. B	29.72	754.9	29.88	758.9	60.0	15.6	100	se.	10	4.5			10 n			0.430	10.9	raining	G. Murdock, C. E.
Saint John's, N. F.	30.14	765.5	30.39	771.9	49	9.4	86	se.			1		3 s			0.03	0.8	d clouds	J. Higgins.
St. Pierre, N. F.			30.24	768.1	51.8	11.0		se.			2					0	0		The Commandant.
Saugeen, Ontario*	29.12	739.6	29.83	757.7	50	10.0	80	nw.	10	4.5			10 ks			0.02	0.5	cloudy	
Stratford, Ontario	28.58	725.9	29.83	757.7	56.1	13.4	92	w.	3	1.3			10 s			0	0	d. clouds	C. J. Macgregor, M. A.
Sydney, C. B*	30.16	766.1	30.22	767.6	55	12.8	86	s.	4	1.8			10 n			0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.46	748.3	29.83	757.7	59	15.0	84	w.	11	4.9			10 ks		nw.	0.01	0.3	cloudy	Magnetic Observatory.
Windsor, N. S	29.87	758.7	29.96	761.0	66.0	18.9	81	se.	6	2.7		0	7 k			0	0	d. clouds	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.80	731.5	29.84	757.9	59.0	15.0	84	sw.	6	2.7		10 cs	0	w.		0.01	0.3	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.83	757.7	29.90	759.4	61	16.1	93	se.	16	7.2			10 s		se.	0.12	3.0	cloudy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
CAPE COLONY.																			
Cape St. Francis Lt. House	30.39	771.9	30.42	772.7	63.0	17.2	82	sw.	13.7	6.1		0	9 ks			0	0	hazy	John Du'Pre
Springbok Fontein	28.14	714.7			73	22.8	17	n.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Guelny.
Tchang-kia-tchouang	29.73	755.1	29.84	757.9	77.5	25.3	50	sw.			1		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.78	756.3	29.80	756.9	75.7	24.3	97	calm	0	0		10 ck	0			1.213	30.8	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.76	755.8	29.80	757.0	54.1	12.3	95	nnw.	13	6			10					raining	Oversergent Fischer.
Fanoe	29.93	760.2	29.95	760.7	55.9	13.3	73	nw.			4		7						Overloerer Lauridsen.
Godthaab, Greenland	30.01	762.2	30.05	763.3	45.3	7.4	76	ne.			2		9						S. Kleinschmidt.
Jacobshavn, Greenland	30.00	762.0	30.05	763.2	50.0	10.0		s.			4		7						
Stykkisholm, Iceland	29.63	752.7	29.68	753.8	51.4	10.8	86	se.			6		10					raining	A. O. Thorlacius.
Thorshavn	30.08	764.0	30.10	764.6	55.0	12.8	72	se.	9	4			7						Overloerer Bergh.
Vestervig	29.86	758.4	29.95	760.7	55.6	13.1	86	calm			0		10						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.77	756.2			98.1	36.7		n.	7.2	3.2		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.50	749.3	30.14	765.6	60.8	16	92	w.			1		10 n			0.114	2.9	covered	M. Labroue, Director.
Alençon, Normal School	29.40	746.8	29.95	760.8	62.2	16.8	85	w.			1		n		e.	0.16	4.		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.97	761.3	30.05	763.3	71.6	22	62	sse.			1		5		se.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.41	747.1	29.96	760.9	62.2	16.8	61	sse.			1	0	8 kn		wsw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.64	752.8	29.90	759.4	62.8	17.1	67	s.			1		8		w.	0.283	7.2	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.11	739.3	29.97	761.2	61.7	16.5	69	sw.			1		10 cn		ne.			raining	M. Gobin, Director.
Bordeaux, Observatory	29.79	756.6	30.04	763.1	65.3	18.5	50	sw.			2		5		wsw.	0.031	0.8	cloudy	M. Rayet, Director.
Bourges, Normal School	29.41	746.9	29.95	760.6	61.7	16.5	69	ssw.			4		n		ssw.	0.217	5.5		M. Malet, Director.
Brest, Naval Observatory	29.74	755.5	29.99	761.7	60.8	16.0	64	nw.			2		4		nw.	0.039	1.0		M. de Kermarrée, Dir.
Caen, Normal School	29.78	756.4	29.85	758.2	60.1	15.6	64	nnw.			1		0			0	0	clear	M. Berson, Director.
Châlone-sur-Marne, N. Sch'l	29.59	751.6	30.06	763.5	62.2	16.8	66	ssw.			6		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.41	746.9	29.90	759.5	65.5	18.6	57	s.			2		8	ssw.	s.	0	0	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.66	728.0	30.02	762.5	53.6	12.0	83	e.			1		10			0.157	4.0	covered	M. Alluard, Director.
Cluny, Normal School	29.22	742.3	30.06	763.5	55.4	13	88	w.			1		10		w.	0.016	0.4		M. de Villemontée, Dir.
Commercy, Normal School	29.12	739.6	29.96	760.9	64.0	17.8	65	sw.			2		n	sw.	sw.	0.043	1.1		Dr. Coulet, Director.
Gap, Normal School	27.52	699.1	29.99	761.8	69.4	20.8	75	s.			1	0	6 kn		s.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.95	735.2	30.03	762.8	73.4	23.0	32	nw.			3		3		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.24	742.6	29.99	761.8	67.3	19.6	57	nw.			3		kn		se.	0	0		M. Ablard, Director.
Guéret, Normal School	28.61	726.8	29.98	761.5	55.0	12.8	90	sw.			1	0	2 k		wnw.	0.059	1.6	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.81	757.2	30.08	764.0	59.9	15.5	76	wnw.					k		wnw.	0.04	1.		M. Ollitrault, Director.
Lescar, Normal School	29.54	750.4	30.11	764.8	57.2	14.0	89	w.			1		10 n			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.84	757.9	29.94	760.5	60.1	15.6	75	w.			2		8	nw.	nw	0.067	1.7	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.97	735.7	30.02	762.4	57.0	13.9	86	wnw.			2		10		ssw.			raining	M. André, Director.
Mans, Normal School	29.64	752.8	29.95	760.6	56.3	13.5	90	sw.			1		10			0.177	4.5	covered	M. Piboën, Director.
Marseille, Observatory	29.78	756.5	30.05	763.3	73.9	23.3	48	sw.			1		5		w.	0.020	0.5		M. Stephan, Director.
Montlouis	24.90	632.4	29.74	755.4	55.0	12.8	57	w.	9.4	4.2			8	nw.		0.165	4.2		M. Cave for Dr. Fines.
Montpellier, Normal School	29.94	760.5	30.05	763.6	67.1	19.5	88	nnw.			3		5		s.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.22	742.2	29.99	761.8	55.8	13.2	95	ssw.			1		kn		sw.	0.327	8.3		M. Hasse, Director.
Nantes, Observatory	29.80	756.8	29.96	760.9	61.0	16.1	63	wsw.			0–2	0	8 kn; n		w.	0.504	12.8		M. Larocque, Director.
Perpignan, Observatory	29.93	760.3	30.04	763.1	68.9	20.5	61	n.	5.6	2.5			10		s.	0.075	1.9		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	539.9			35.6	2.0		sw.			2		5		sw.	0.039	1.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.96	735.6	30.00	762.1	64.9	18.3	62	s.			3	0	5 n		s.	0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.12	638.1			38.5	3.6	100	wsw.			6		10			0.043	1.1	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.95	760.8	29.98	761.6	61.2	16.2	69	sw.			6		5	sw.	wsw.	0.10	4.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.71	754.7	29.93	760.3	56.5	13.6	93	sw.			1		2		e.	0.441	11.2	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.94	709.6	30.09	764.3	54.9	12.7		calm			0		5		se.	0.16	4.	raining	M. Seger, Director.
Rouen, Normal School	29.85	758.3	29.90	759.5	61.9	16.6	62	w.			2		5	w.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.75	755.7	29.91	759.8	61.7	16.5	61	ssw.			1		1		sw.	0.110	2.8		M. Renou, Director.
Toulouse, Observatory	29.43	747.6	30.16	766.1	62.1	16.7	76	nw.			1		10	w.		0.012	0.3	covered	M. Baillaud, Director.
Tours	29.73	755.2	29.91	759.7	64.4	18.0	59	s.			4		10	s.	s.			hailing	M. de Tastes.
Versailles, Observatory	29.41	747.1	29.91	759.6	57.9	14.4	86	s.			2					0.413	10.5		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	30.00	762.0	30.15	765.8	63.1	17.3	72	w.	15.7	7.0		0	9 k		w.	0.130	3.3		M. Cartier, Director.
GERMAN.																			
Ansbach	28.55	725.1	29.95	760.6	69.8	21.0	38	sw.			2		5	sw.		0.012	0.3		Prof. Jnedt.
Bamberg	29.10	739.1	29.94	760.5	66.7	19.3	52	s.			2	0	3 ks		s.	0	0		Prof. Dr. Hoh.
Berlin	29.76	756.0	29.90	759.5	68.0	20.0	34	nw.			5		2			0	0		Dr. Sensch.
Breslau	29.42	747.2	29.95	760.6	56.1	13.4	77	nw.			4		10			0.236	6.0	light rain	Royal University Obs'y
Carlsruhe	29.49	749.1	29.94	760.4	70.7	21.5	46	sw.			1		10	sw.		0.386	9.8		Albert Senz.
Cassel	29.23	742.4	29.94	760.5	63.1	17.3	75	sw.			6		8	sw.		0.138	3.5		Dr. H. Möhl.
Frankfort-on-the-Main			29.95	760.7	66.2	19.0	52	s.			1		7			0.067	1.7		Physical Society.
Friedrichshafen	28.58	725.8	29.95	760.7	68.0	20.0	55	sw.			2		1	wsw.		0.520	13.2		Wilhelm, Chief Tel.
Hamburg	29.84	758.0	29.93	760.3	62.2	16.8	65	nnw.			4		3			0	0		E. Preller.
Kiel	29.91	759.8	29.93	760.2	60.4	15.8	49	nnw.			2		6			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.53	750.0	29.94	760.4	68.7	20.4	38	nw.			3		4	nw.		0	0		H. Leppig, Asst.
Magdeburg	29.74	755.3	29.92	760.0	68.2	20.1	50	wnw.			2		2	wsw.		0.008	0.2		Weather Observatory
Memel	29.63	752.7	29.68	753.9	62.4	16.9	87	wnw.			4		10						Issermann.
Munich	28.18	715.8	30.04	763.1	66.0	18.9	46	calm			0		4	w.		0.004	0.1		Central Station.
Neufahrwasser	29.71	754.6	29.72	755.0	63.3	17.4	70	w.			3		9	w.		0	0		A. Lothes.
Neustadt, Palatinate	29.43	747.5	29.96	760.9	64.9	18.3	86	w.			4		10			0.106	2.7		Dicknether.
Stuttgart	28.99	736.3	29.85	758.1	71.6	22.0	41	nw.			1		5	w.		0.488	12.4		Prof. Dr. Schoder.
Wustrow	29.91	759.7	29.94	760.4	54.1	12.3	79	wnw.			5		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.65	753.0	30.01	762.3	85.1	29.5		nw.			1.5		1			0	0	hazy	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.57	751.0	29.62	752.2	90.2	32.3	65	w.	24.0	10.7			5			0	0	d. clouds	
Deesa	29.12	739.6	29.57	751.1	99.5	37.5	34	wsw.	5.0	2.2			8	wsw.	wsw.	0	0	d. clouds	
Bombay	29.66	753.3	29.70	754.2	85.6	29.8	79	w.	8.0	3.6			10		w.	0	0	overcast	
Poona, Yarrowda	27.85	707.5	29.68	754.0	83.3	28.5	56	w.	23.0	10.3			10			0	0	overcast	
Trichinopoly	29.50	749.3	29.78	756.3	82.5	28.1	71	w.	2.0	0.9			10	ne.	ne.	0.96	24.4	overcast	
Belgaum	27.19	690.6	29.72	754.8	75.3	24.1	76	wsw.	9.0	4.0			7	s.	w.	0	0	d. clouds	
Lahore	28.75	730.3	29.44	747.9	108.3	42.4	19	w.	4.0	1.8			0			0	0	blue sky	
Roorkee	28.63	727.2	29.50	749.2	93.8	34.3	44	e.	5.0	2.2			0			0	0		
Agra	28.96	735.7	29.50	749.3	103.6	39.8	27	w.	2.0	0.9			2		w.	0	0	d. clouds	
Nagpur	28.59	726.2	29.61	752.1	87.3	30.7	63	calm	2.0	0.9			7		s.	0.40	10.2	d. clouds	
Jubbulpore	28.30	718.8	29.65	753.1	79.3	26.3	89	se.	6.0	2.7			10		se.	0.70	17.8	overcast	
Lucknow	29.21	741.8	29.57	751.1	95.0	35.0	50	ene.	3.0	1.3			3	ene.		0	0	d. clouds	
Allahabad	29.24	742.8	29.55	750.4	94.4	34.7	51	se.	2.0	0.9			7			0	0	misty	
Patna	29.43	747.4	29.61	752.0	88.6	31.4	66	se.	5.4	2.4			8	se.	se.	0	0	d. clouds	
Hazaribagh	27.60	702.4	29.64	753.0	80.3	26.8	80	ssw.	9.6	4.3			10			0	0	overcast	
Cuttack	29.61	752.2	29.69	754.2	87.1	30.6	67	w.	5.0	2.2			6		s.	0	0	d. clouds	
Calcutta, Alipore	29.66	753.3	29.68	753.9	82.5	28.1	79	ssw.	11.0	4.9			10		sw.	0.01	0.3	overcast	
Dhubri	29.52	749.9	29.64	752.9	82.7	28.2	86	ssw.	2.4	1.1			6			0	0	d. clouds	
Chittagong	29.69	754.1	29.78	756.4	80.7	27.1	85	s.	6.2	2.8			7	s.	s.	0	0	d. clouds	
Sibsagar	29.31	744.6	29.65	753.0	83.3	28.5	86	sw.	2.0	0.9			10	w.	w.	0.02	0.5		
Jeypore	28.14	714.8	29.53	750.0	96.6	35.9	36	nw.	12.5	5.6			7		nw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.02	762.5	30.04	763.1	83.9	28.8	54	s.	12.9	5.8			3	ese.		0	0	d. clouds	
Bellary	28.20	716.3			94.5	34.7	33	w.	8	3.6		5 ck	0			0	0	d. clouds	
ITALIAN.																			
Udine	29.65	753.2	30.05	763.3	71.8	22.1	64	sw.	6.9	3.1			8			0	0		Prof. Giovanni Clodig.
Milan	29.54	750.3	30.04	763.0	72.7	22.6	44	sw.	4.9	2.2			3	sw.		0	0		Prof. G. V. Schiapparelli.
Padua	29.93	760.2	30.04	762.9	74.1	23.4	43	wsw.	3.8	1.7			0	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.12	739.7	30.00	762.0	69.4	20.8	53	ne.	2.5	1.1			8	nne.		0.130	3.3		Prof. F. F. Denza.
Genoa	29.91	759.7	30.10	764.4	67.6	19.8	55	s.	8.1	3.6			4	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.13	714.4	29.98	761.5	67.3	19.6	52	se.			6		2	sw.		0	0		Prof. D. C. Bruno.
Pesaro	29.96	760.9	30.00	762.1	75.2	24.0	72	sw.	8.7	3.9			9			0	0		Prof. Luigi Guidi.
Florence	29.82	757.5	30.08	763.9	72.7	22.6	44	ssw.			2		5	ssw.		0	0		Prof. Costantino Pittei.
Leghorn	29.92	760.0	30.00	762.1	72.3	22.4	55	s.	4.3	1.9			4	w.		0	0		Prof. P. Monte.
Rome	29.93	760.2	30.10	764.5	72.3	22.4	39	ese.	9.8	4.4			7			0	0		Prof. P. Tacchini.
Lecce	29.90	759.5	30.15	765.7	74.5	23.6	43	ene.	11.2	5.0			1			0	0		Prof. C. de Giorgi.
Cosenza	29.24	742.6	30.09	764.2	82.4	28.0	66	wnw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.78	756.4	29.97	761.2	80.8	27.1	32	se.			4		5	s.		0	0		Prof. A. Pacinotti.
Palermo	29.89	759.1	30.13	765.3	74.8	23.8	52	ne.	7.4	3.3			0			0	0		Prof. G. Caccatore.
Syracuse	30.06	763.5	30.10	764.6	79.5	26.4	72	s.	4.3	1.9			9	s.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.61	752.1	30.12	765.1	73.6	23.1	70	se.	0	0			2	w.		0	0		Prof. F. Brioschi.
Stelvio	22.24	564.8			41.7	5.4	60	sw.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.25	565.1			39.9	4.4	76	nw.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.76	755.9	29.79	756.8	68.1	20.1	85	calm			0		10 ck		nw.	0	0	cloudy	H. Hattori.
Awomori	29.77	756.1	29.81	757.2	59.1	15.1	86	nw.	4.2	1.9			10 s			0	0	overcast	K. Ogawa.
Hamamatsu	29.73	755.1	29.76	755.8	75.0	23.9	94	sw.			4		10 n		nw.	1.083	27.5	raining	Y. Sekigawa.
Kanazawa	29.70	754.3	29.79	756.8	69.8	21.0	95	e.	3.2	1.4			10 n			0.169	4.3	raining	S. Endo.
Kagoshima	29.83	757.6	29.84	757.9	77.4	25.2	90	sw.			2		10 n		w.	2.872	72.9	light rain	G. Miyanohaza.
Kioto	29.60	751.9	29.78	756.3	71.1	21.7	92	wnw.	2.1	0.9			10 s			1.606	40.8	light rain	M. Tojima.
Kochi	29.74	755.4	29.76	755.9	77.7	25.4	94	n.	2.9	1.2			10 s		w.	0.62	15.7	overcast	K. Kusunose.
Miasaka	29.78	756.5	29.81	757.2	79.5	26.4	74	w.			2	1 ck	9s;ks	w.	w.	0.157	4.0	cloudy	K. Masusaki.
Miyako	29.73	755.2	29.84	758.0	57.6	14.2	94	ene.	inap.	inap.			10 n			0.031	0.8	raining	N. Honno.
Nagasaki, I. M. Obs'y	29.62	752.3	29.81	757.2	74.1	23.4	99	sw.	3.9	1.7			10 s			1.150	29.2	dense fog	S. Takehayashi.
Niigata	29.75	755.6	29.78	756.4	69.3	20.7	93	e.	4.8	2.1			10 s		w.	0.005	0.1	cloudy	M. Morita.
Nobiru	29.80	756.8	29.81	757.2	60.6	15.9	90	ene.	4.4	2.0			10 n			0.320	8.1	raining	H. Midzushima.
Numazu	29.73	755.1	29.77	756.1	75.1	23.9	91	sw.			6		10 n		w.	1.594	40.5	light rain	R. Kaneda.
Osaka	29.76	755.9	29.78	756.3	72.0	22.2	85	ne.	6.3	2.8			10 n			1.580	40.1	light rain	H. Omura.
Sakai	29.79	756.8	29.80	757.0	68.3	20.2	93	ne.			2		10 n		e.	0.331	8.4	raining	K. Yamawchi.
Tokei Obs'y, Yeddo	29.72	755.0	29.80	756.8	66.2	19.0	96	ene.	6.3	2.8			10 n		ne.	1.533	38.9	raining	The Staff.
Wakayama	29.71	754.7	29.76	756.0	73.8	23.2	95	calm	0	0			10 n			0.966	24.5	raining	K. Sakai.
Shimonoseki	29.68	753.8	29.82	757.4	66.7	19.3	97	calm			0		10 n			1.197	30.4	raining	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	74.2	23.4	68	e.	14.0	6.3		0	2 k;ks		e.	0	0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.68	601.4	29.90	759.4	59.9	15.3	79	e.	5.8	2.7		9 c	0			0	0	cloudy	Prof. Vicente Fernandez
Leon	24.30	617.2	29.89	759.2	63.1	17.3	82	sw.	0.9	0.4		5 c	5 k			inap.	inap.	covered	Prof. M. Leal.
Mazatlan	29.56	750.9	29.82	757.4	81.0	27.2	80	nw	15.5	6.9		5 cs	1 k	e.		0.118	3.0	fair	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					79	26.1	82	n.	12.8	5.7		2 c	2 k	s.	e.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.91	759.6	29.91	759.6	61.7	16.5		wnw.			2					0.012	0.3		
Groningen	29.91	759.7	29.97	761.1	67.3	19.6		ne.			2					0	0		
Helder	29.95	760.6	29.95	760.6	59.0	15.0		ene.			4					0	0		
Hellevoetsluis	29.91	759.7	29.91	759.7	64.8	18.2	62	e.			1					0.441	11.2		
Utrecht	29.89	759.1	29.93	760.3	65.5	18.6	58	sse.			3		5			0.224	5.7	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.7			81.0	27.2	79	ne.	1.5	0.7			0			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.89	759.2	29.95	760.8	66.6	19.2	47	nw.	4	2			5			0	0		
Brono	30.08	763.9	30.11	764.9	53.1	11.7	70	n.			4		0			0	0		
Christiania	29.78	756.5	29.93	760.1	70.5	21.4	32	nne.	9	4			0			0	0		
Gjæsvær	30.09	764.2	30.11	764.8	45.9	7.7		w.			0		10						
Lodingen	30.11	764.8	30.16	766.0	52.3	11.3	60	ssw.	7	3			0			0	0		
PORTUGUESE.																			
Angra, Azores	30.32	770.0	30.47	774.0	64.4	18.0	86	se.	4.3	1.9			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.07	738.4	30.04	762.9	77.7	25.4	41	se.	3.6	1.7			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.17	766.2	30.25	768.4	69.4	20.8	59	sw.	3.8	1.7			4	n.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.77	756.2	30.10	764.6	67.1	19.5	39	nnw.	31.1	13.9			0			0	0		The Staff.
Ponta Delgada, Azores	30.41	772.3	30.48	774.1	68.4	20.2	59	calm	0	0			4			0	0		
Saint Paul de Loanda	29.84	758.0	30.04	763.1	73.9	23.3	93	wnw.			1		2	ssw.		0	0		
San Salvador	28.15	715.1	29.99	761.7	77.9	25.5	58	s.			1		0			0	0		
Serra da Estrella	25.39	644.9	30.08	763.9	54.5	12.5	41	nnw.	15.0	6.7			1			0	0		
RUSSIAN.																			
Akmolinski	28.83	732.3	29.84	757.9	82.0	27.8	30	e.	2	1		0	3 k			0	0		Major K. Lasarew.
Archangel	29.97	761.1	29.98	761.6	60.4	15.8	44	n.	13	6		3 cs	0			0	0		Capt. Sselliwerstow
Ashurada	29.78	756.4	29.69	754.0	84.9	29.4	65	wnw.	9	4		0	4 k			blank	blank		
Astrakhan	29.77	756.2	29.69	754.1	84.9	29.4	46	ssw.	18	8			9 s;n			0	0		Capt. Wisganow.
Baku	29.76	756.0	29.72	754.8	81.9	27.7	54	sse.	4	2		1 cs	0			0	0		
Barnaul	29.39	746.6	29.88	758.9	63.1	17.3	51	nw.	2	1			9			0.051	1.3		Meteorological Obs'y
Bielosersk	29.22	742.3	29.67	753.6	67.8	19.9	85	n.	10	7		0	5 ks			0	0		
Dorpat	29.40	746.7	29.63	752.6	65.1	18.4	88	ne.	9	4			10 k			0.173	4.4		Observatory.
Ekaterinburg	28.91	734.2	29.80	757.0	86.0	30.0	32	sw.	9	4		7 c	0			0	0	light clouds	Meteorological Obs'y
Elisawetgrad	29.26	743.3	29.70	754.3	68.9	20.5	47	wnw.	9	4		0	8 ks			0	0		
Irkutsk	28.15	715.1	29.75	755.7	57.9	14.4	87	n.			3		10						
Kasalinsk	29.13	739.8	29.30	744.3	93.2	34.0	39	e.	9	4		0	k						
Kasan	29.42	747.2	29.67	753.5	82.6	28.1	39	se.	18	8		c	8 k			0	0		Observatory.
Kem	30.01	762.2	30.06	763.5	54.7	12.6	60	ne.	22	10		0				0	0		
Kertch																			Lagorio & Sastyres.
Kieff	29.02	737.2	29.63	752.6	68.2	20.1	50	w.	9	4		0	8 ks			0	0		Observatory.
Koslov	29.02	737.0	29.53	750.1	68.0	20.0	78	w.	9	4			10 n			0.591	15.0	thnd'r str'm	
Libau	29.62	752.4	29.65	753.0	61.0	16.1	86	w.	7	3			10			0.047	1.2	foggy	E. Quaas.
Lugan	29.32	744.6	29.49	749.0	80.8	27.1	50	sw.	18	8			8			0.020	0.5		Meteorological Obs'y.
Moscow	29.06	738.0	29.59	749.2	74.3	23.5	67	se.	3.4	1.5		0	8 ks;n			0.012	0.3	raining	Meteorological Obs'y
Nikolaiev	29.71	754.6	29.78	756.5	72.7	22.6	50	nw.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.59	751.5	29.67	753.7	53.4	11.9	65	calm	0	0		0	2			0	0		Iwanow.
Pekin, China	29.56	750.7	29.70	754.3	84.7	29.3	38	sw.	2.2	1.0			3 ks			0	0		Physical Observatory.
Petro-Alexandrovsk	29.40	746.8	29.73	755.1	87.6	30.9	50	n.	1.1	0.5			0			0.138	3.5		
Petrozavodsk	29.61	752.1	29.80	756.9	66.0	19.2	63	ne.	11	5		c	9 ks			0	0		Dr. Bergmann.
Pinsk	29.17	740.9	29.65	753.1	62.1	16.7	74	e.	2	1			10 ks			0.051	1.3		
Poti	29.81	757.2	29.84	758.0	76.3	24.6	93	ssw.	4	2			10 n			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
St. Petersburg	29.70	754.3	29.72	754.9	61.5	16.4	74	ne.	16	7			10 n			inap.	inap.		Central Physical Obs'y.
Samarkand	27.30	693 4	29.53	750.0	92.1	33.4	43	calm	0	0		0	2 k			0	0		
Semipalatinsk	29.35	745.4	29.98	761.4	73.9	23.3	28	nw.	4	2			6			0	0		Major Lasarew
Sevastopol	29.61	752.1	29.83	757.7	71.2	21.8	49	wnw.	27	12		0	5 cs			0.579	14.1		
Staroi Bykhov	29.19	741.3	29.62	752.3	72.0	22.2	69	sw.	7	3			10			0.051	1.3		
Tashkend	28.02	711.8	29.52	749.9	100.0	37.8	25	calm	0	0		0	2 ks			0	0		Terch, A. M.
Tiflis	28.37	720.5	29.70	754.3	83.3	28.5	31	calm	0	0		0	7 k			0	0		Physical Observatory.
Vernoe	27.32	694.0	29.69	754.2	77.0	25.0	45	calm	0	0		0	0			0	0		
Viatka	29.09	738.8	29.67	753.7	86.2	30.1	35	s.	2	1			2			0	0		
Warsaw	29.28	743.6	29.69	754.2	57.0	13.9	91	nw.	16	7			10 n			0.524	13.3	raining	Astronomical Obs'y.
Yeniseisk	29.58	751.4	29.86	758.5	56.5	13.6	75	wnw.	2	1			10			0	0		M. O. Marks.
Scottish.																			
Monach Lt.			30.02	762.5	58	14.4	94	s.			3	0	0			0	0	clear	J. Youngclause
North Unst			30.13	765.3				n			4		10						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.98	761.5	30.08	764.1	69.8	21.0	76	se.	2.5	1.1		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.11	764.7	30.17	766.2	67.1	19.5	62	nw.	2.2	1.0		2	7	nw.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.15	689.6	30.06	763.5	64.4	18.0	45	ne.	4.9	2.2		0	6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.82	706 6	29.96	761.0	75.7	24.3	32	w.	7.8	3.5		0	1			0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.85	758.1	30.08	763.9	80.2	26.8	48	ese.	4.0	1.8		0	3			0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.38	746.2	30.14	765.5	53.6	12.0	85	e.	9.2	4.1		10 n	4 n	w.	e.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.28	743.6	30.17	766.3	61.9	16.6	55	n.	9.4	4.2			9			0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	761.0	30.03	762 7	80.1	26.7	76	se.	6.7	3.0		2 cs	4 k	se.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.6	78.8	26.0	87	se.	6.6	3.0			9 kn		nne.	0.118	3.0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.7	30.09	764.2	77.5	25.3	56	w.	8.0	3.6		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	30.06	763.4	30.15	765.7	80.6	27.0	86	s.	5.8	2.6		2 cs	5 k	s.	s.	0	0	d. clouds	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.08	764.1	30.12	765.1	63.3	17.4	37	ne.			4		2			0	0		
Umea	30.05	763.2	30.10	764.5	65.5	18.6	31	e.			7		0			0	0		
Hernosand	30.02	762.4	30.07	763.7	67.6	19.8	35	ne.			4		0			0	0		
Stockholm	29.66	753.4	29.84	757.9	67.1	19.5	45	n.			6		10			0	0		
Wisby	29.65	753.2	29.71	754.7	49.6	9.8	98	ne.			4		10			0.421	10.7	raining	
Sub-series.																			
Upsala	29.78	756.5	29.87	758.7	64.9	18.3	48	n.	17.9	8.0			5			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.57	725.7	29.95	760.7	71.1	21.7	44	sw.			2		8			0	0	covered	The Observatory.
Turkish.																			
Constantinople			30.02	762.4	73.9	23.3	44	n.	17	7.5			4		nw.	0.209	5.3		The Observatory.
Valona			30.27	768.9	79.7	26.5		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.78	756.3	87.8	31.0	61	sw			4		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.87	682.5			66	18.9	65	w.			0.5					0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.76	755.9	29.84	757.9	65.6	18.7	77	w.	4	1.8			10 ks		w.	0.05	1.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.20	741.7	29.85	758.2	61	16.1	65	w.	10	4.5		6 c	1 s	nw.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.99	634.7	29.74	755.4	50	10.0	50	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.99	685.5	29.78	756.4	56	13.3	69	e.	7	3.1		7 k	0	sw.		0	0	fair	B. O. Lenoir.
Atlanta, Georgia	28.84	732.5	29.99	761.7	74.0	23.3	71	calm	0	0			10 s		w.	0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.55	758.2	29.80	758.4	70	21.1	70	nw.	9	4.0		7 ck	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.81	757.2	30 00	762.0	74.5	23.6	74	nw.	4	1.8		2 cs	0			0	0	clear	John Healy.
Baltimore, Maryland	29.84	757.9	29.89	759.2	73	22.8	66	nw.	4	1.8		2ck hz	0	w.		0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	29.84	757.9	29.86	758.4	71.0	21.7	71	nw.	16	7.2		5 k	0	nw.		0	0	fair	G. A. Hill.
Behring Id., Behring Sea	29.48	748.8	29.50	749.3	39.1	3.9	92	nw.	13	5.8			10 n			0.09	2.3	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.32	719.3	29.86	758.4	64.0	17.8	92	se.	7	3.1		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.03	686.5	29.80	756.9	59	15.0	54	calm	0	0		0	5 ks			0	0	fair	S. Wheaton.
Billings, Montana	26.64	676.6	29.78	756.4	56	13.3	74	e.	4	1.8			10 ks		e.	0.66	16.8	cloudy	T. Gibson.
Bismarck, Dakota	28.07	713.0	29.83	757.7	65	18.3	90	se.	1	0.4		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.81	757.2	29.84	757.9	68	20.0	81	sw.	9	4.0			10 ks		w.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.01	686.0	29.79	756.7	55	12.8		se.	2	0.9		3 k	0			0.02	0.5	clear	J. Kenealy.
Boston, Massachusetts	29.64	752.8	29.79	756.7	69.5	20.8	73	sw.	5	2.2		5 ck	4 s	sw.		0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.91	759.7	82.0	27.8	85	s.	4	1.8		0	0			0	0	clear	E. O. Imlay.
Buffalo, New York	29.10	739.1	29.84	757.9	58	14.4	84	w.	8	3.6			10ks;s		n;w.	0.18	4.6	cloudy	W. Finn.
Buford, Fort, Dakota	27.94	709.7	29.90	759.4	59	15.0	84	calm	0	0		4 c	2 s	nw.		0	0	fair	A. Schneider.
Burlington, Vermont																			D. N. Farnell.
Cairo, Illinois	29.53	750.0	29.92	760.0	67.6	19.8	91	s.	10	4.5			10 s		s	1.01	25.7	threatening.	W. H. Ray.
Cape Henry, Virginia	29.88	758.9	29.90	759.4	74.5	23.6	88	ne.	10	4.5		4 cs	0			0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.84	757.9	29.87	758.7	70.0	21.1	78	nw.	14	6.3		0	0			0.02	0.5	clear	W. E. Smith.
Cape Mendocino, California	29.27	743.4	29.95	760.7	48	8.9	93	nw.			2	7 k	0	nw.		0	0	fair	J. J. McLean.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	83	28.3	74	w.	10	4.5		0	2 k		w.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.86	758.4	29.91	759 7	81	27.2	67	w.	8	3.6		9 c	0			0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.12	739.6	29.95	760 7	75.0	23.9	52	n.	4	1.8		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.21	741.9	30.02	762.5	68.0	20.0	78	nw.	1	0.4		5 cs	4 ks		w.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24 05	610.9	29.79	756.7	55.4	13.0	74	s.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.12	739.6	29.81	757.2	65.0	18.3	79	se.	4	1.8		3 ck	4 k	w.	se.	0	0	fair	John Laurens.
Chincoteague, Virginia	29.86	758.4	29.88	758 9	72	22.2	71	n.	12	5.4		hz.	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.24	742.7	29.89	759.2	68.0	20.0	73	se.	2	0.9			10 n			0.02	0.5	light rain	L. Dunne.
Cleveland, Ohio	29.14	740.1	29.88	758.9	62.8	17.1	73	w.	2	0.9		7 c	0	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.16	715.3	29.90	759.4	73	22.8	76	s.	6	2.7		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.04	737.6	29.88	758.9	64	17.8	84	sw.	3	1.3			10 s		sw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.01	711.4	29.88	758.9	75.3	24.1	74	s.	13	5.8		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.16	740.7	29.80	756.9	68	20.0	90	s.	1	0.4			10 ks		sw.	0.08	2.0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	29.80	756.9	70	21.1	57	sw.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.16	715.3	29.90	759.4	51	10.6	61	sw.	12	5.4		0	1 k		sw.	inap.	inap.	clear	D. Moore.
Deadwood, Dakota	25.30	642.6	29.74	755.4	54	12.2	64	ne.	1	0.4		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del.	29.87	758.7	29.89	759.2	67	19.4	84	nw.	11	4.9		0	1 k			0	0	clear	T. S. Townsend.
Denver, Colorado	24.73	628.1	29.77	756.1	61.3	16.3	68	s.	1	0.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.95	735.3	29.83	757.7	65	18.3	97	ne.	4	1.8			10 s			1.05	26.7	cloudy	F. W. Conrad.
Detroit, Michigan	29.17	740.9	29.86	758.4	61.0	16.1	78	calm	0	0		10 k	0			0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.32	693.9	29.84	757.9	69	20.6	81	e.	10	4.5		3 cs	0	e.		0	0	clear	D. J. Carr.
Dubuque, Iowa	29.12	739.6	29.81	757.2	66.3	19.1	82	se.	2	0.9			10 s		s.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.15	740.4	29.88	758.9	59	15.0	81	calm	0	0		3ck	2 k			0	0	fair	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho																			H. R. Boynton.
Eastport, Maine	29.79	756.7	29.86	758.4	53.0	11.7	100	s.	10	4.5			fg.		s.	2.62	66.5	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.15	689.6	29.82	757.4	68	20.0	53	s.	8	3.6		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.20	665.5	29.78	756.4	78.0	25.6	54	calm	0	0		0	7 s			0.02	0.5	fair	J. O'Dowd.
Erie, Pennsylvania	29.10	739.1	29.82	757.4	63	17.2	78	sw.	1	0.4		9 c	0	w.		0.23	5.8	cloudy	C. A. Shaw.
Escanaba, Michigan	29.22	742.2	29.87	758.7	57.5	14.2	61	n.	3	1.3		5c; cs	1 s			0	0	fair	George Heathcote.
Galveston, Texas	29.94	760.5	29.98	761.5	84	28.9	67	sw.	6	2.7		2 k	3 ks	sw.		0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.19	741.4	29.84	757.9	62.0	16.7	81	n.	2	0.9		6 ck	0	w.		0	0	fair	J. E. Mueller.
Grant, Fort, Arizona					68.4	20.2	42	s.	2	0.9		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.87	758.7	29.89	759.2	73	22.8	82	w.	2	0.9		6 k	0	w.		0.03	0.8	fair	R. M. Crawford.
Helena, Montana	25.70	652.8	29.82	757.4	55	12.8	69	sw.	6	2.7		0	6 ks			0	0	fair	H. W. Dodge.

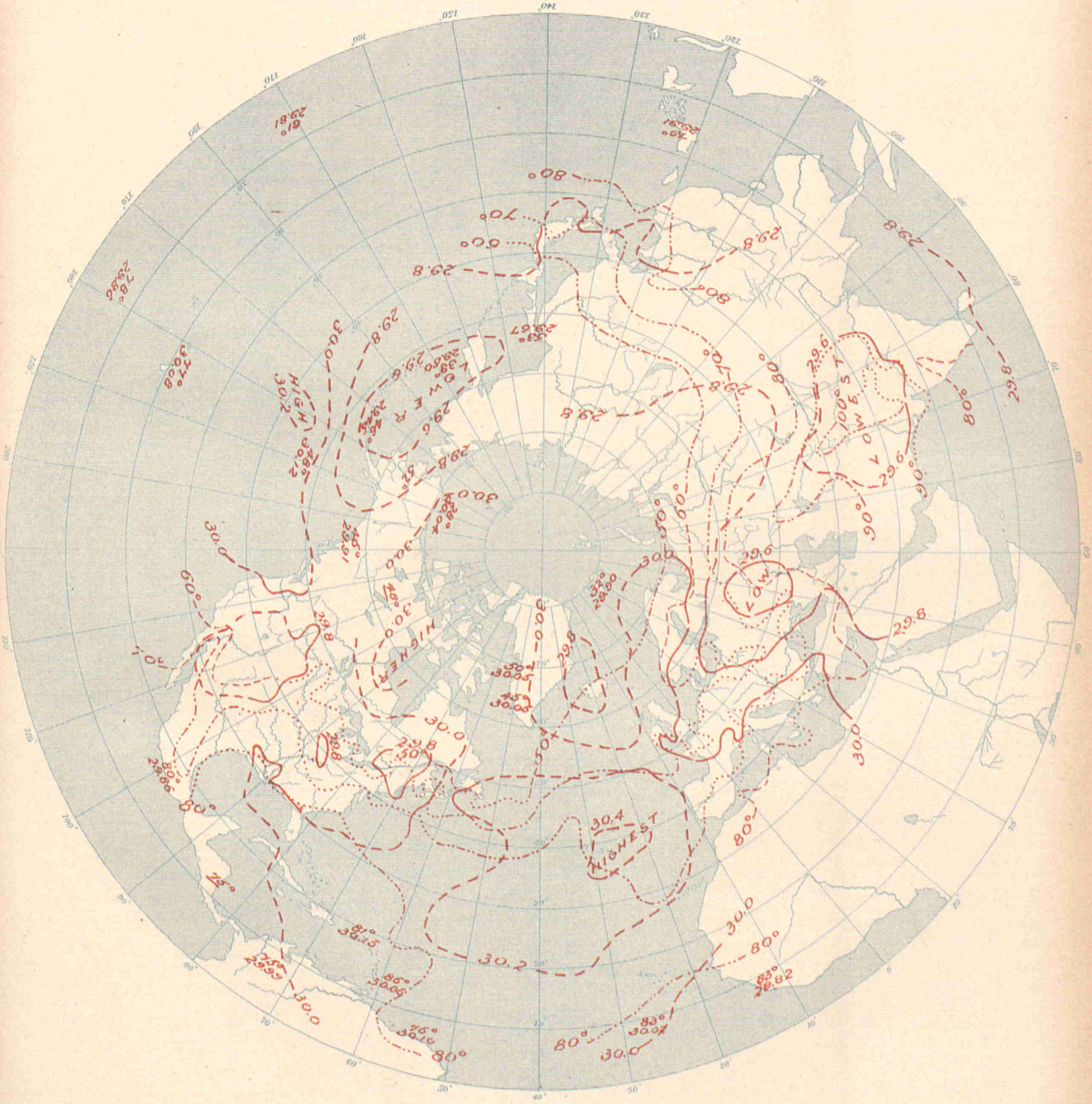
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.58	725.9	29.92	760.0	58.9	14.9	70	se.	3	1.3		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.02	737.1	29.80	756.9	67.4	19.7	84	ne.	9	4.0		0	8k; n		w.	0.20	5.1	clearing	C. F. R. Wappenhans.
Indianola, Texas	29.92	760.0	29.95	760.7	81.2	27.3	83	s.	10	4.5		0	1 ks			0	0	clear	I. A. Reed.
Jacksonville Florida	29.94	760.5	29.98	761.5	80.5	26.9	82	sw.	3	1.3		5 cs	0	sw.		0.15	3.8	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.17	740.9	29.81	757.2	67.0	19.4	90	w.	2	0.9			10 s		w.	1.00	25.4	cloudy	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	85.0	29.4	72	se.	2	0.9		2 cs	2 k	sw.	se.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.89	759.2	29.91	759.7	76.5	24.7	71	w.	9	4.0		2 k	0	w.		0.06	1.5	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	28.96	735.6	29.97	761.2	65.2	18.4	88	n.	2	0.9		9 cs	0	w.		0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.84	757.9	64	17.8	84	nw.	3	1.3			10 s		nw.	0.35	8.9	cloudy	S. C. Emery.
Leavenworth, Kansas	28.97	735.8	29.84	757.9	73	22.8	84	nw.	3	1.3		0	0			inap.	inap.	clear	A. W. Browne.
Lewiston, Idaho	28.99	736.3	29.81	757.2	63.0	17.2	55	e.	1	0.4		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.61	752.1	29.92	760.0	78	25.6	88	s.	4	1.8		0	4 ks			0	0	fair	W. U. Simons.
Los Angeles, California	29.48	748.8	29.87	758.7	55	12.8	86	ne.	3	1.3		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.23	742.4	29.78	756.4	66	18.9	91	ne.	5	2.2			10 n			0.31	7.9	thund'r st'm	L. M. Dey.
Lynchburg, Virginia	29.24	742.7	29.91	759.7	76	24.4	52	sw.	1	0.4		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.22	742.2	29.86	758.4	57.8	14.3	60	w.	7	3.1		7 c	0			0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	29.88	758.9	29.89	759.2	79.0	26.1	88	w.	2	0.9		0	3 k		w.	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.44	646.2	29.77	756.1	60	15.6	46	se.	3	1.3		10 k	0			0	0	cloudy	F. Burke.
Marquette, Michigan	29.17	740.9	29.89	759.2	52	11.1	59	w.	2	0.9		8 c	0	w.		0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.59	751.6	29.92	760.0	81	27.2	74	sw.	7	3.1		0	8 s		sw.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.10	739.1	29.84	757.9	61	16.1	87	e	5	2.2			10 n		nw.	0.01	0.3	light rain	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.96	761.0	30.00	762.0	79.4	26.3	86	w.	1	0.4		0	0			0.41	10.4	clear	C. A. Read.
Montgomery, Alabama	29.71	751.6	29.94	760.5	77.5	25.3	87	calm	0	0		hz.	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.94	735.1	29.90	759.4	52	11.1	72	s.	6	2.7		0	0			0	0	clear	H. White.
Mt. Washington, N. H	23.72	602.5	29.84	757.9	43.0	6.1	100	s.	24	10.7			fg.		s.	2.27	57.7	dense fog	S. W. Beall.
Nashville, Tennessee	29.42	747.3	29.98	761.5	68.0	20.0	90	se.	6	2.7			10 n		w.	0.20	5.1	thund'r st'm	L. N. Jesunofsky.
New Haven, Connecticut	29.70	754.4	29.81	757.2	67	19.4	72	sw.	5	2.2		0	4 ks		sw.	0	0	fair	J. H. Sherman.
New London, Connecticut.	29.81	757.2	29.86	758.4	68	20.0	78	sw.	1	0.4			9 s		sw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.00	762.0	80.0	26.7	82	w.	4	1.8		0	0			0	0	clear	M. Herman.
New York, New York	29.70	754.4	29.86	758.4	67	19.4	68	w.	8	3.6		4 cs	2 k	w.	w.	0	0	fair	G. E. Franklin.
Norfolk, Virginia	29.87	758.7	29.90	759.4	79.0	26.1	69	n.	5	2.2		5 cs	hz.			0	0	fair	Wm. Davis.
North Platte, Nebraska	27.03	686.5	29.83	757.7	67.6	19.8	88	e.	8	3.6		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	47.0	8.3	77	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.74	730.0	29.88	758.9	67.0	19.4	87	n.	6	2.7			10 s		n.	1.30	33.0	cloudy	A. Pollak.
Ooglaamie, Alaska	30.02	762.5	30.04	763.0	27.5	— 2.5	100	ene.	16	7.2			10 n			inap.	inap.	light snow	P. H. Ray.
Oswego, New York	29.51	749.5	29.83	757.7	55.0	12.8	86	w.	8	3.6		4 k	3 k	sw.	w.	0.22	5.6	fair	J. G. Linsley.
Palestine, Texas	29.48	748.8	30.02	762.5	77.0	25.0	82	s.	4	1.8		0	5 ks		sw.	0	0	fair	J. W. Byram.
Pensacola, Florida	29.98	761.5	30.00	762.0	80.3	26.8	82	nw.	2	0.9		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.78	756.4	29.88	758.9	69.5	20.8	90	w.	6	2.7		4ck;cs	0	w.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	18.06	458.7	29.88	758.9	35	1.7	85	sw.	22	9.8		0	0			0	0	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.09	738.9	29.88	758.9	63.5	17.5	87	w.	1	0.4		3 c	0	w.		0.01	0.3	clear	W. A. Reid.
Poplar River, Montana	27.75	704.8	29.85	758.2				se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.16	740.7	29.83	757.7	58.0	14.4	93	sw.	1	0.4		3 cs	0	nw.		0	0	clear	M. H. Perry
Portland, Maine	29.75	755.6	29.80	756.9	62.0	16.7	87	ne.	1	0.4			fg.			0.02	0.5	dense fog	W. W. Eichelberger
Portland, Oregon	29.97	761.2	30.04	763.0	54.0	12.2	64	nw.	5	2.2			10 s		n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					72	22.2	100	sw.	6	2.7			10 n		sw.	0.04	1.0	heavy rain	F. P. Chaffee.
Prescott, Arizona	24 71	627.6	29.73	755.1	50.0	10.0	34	s.	4	1.8		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.79	756.7	29.82	757.4	68.5	20.3	81	sw.	7	3.1		0	4s;fg		w.	0.03	0.8	fair	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.51	749.5	29.86	758.4	60	15.6	65	calm	0	0		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGaun.
Roseburg, Oregon	29.50	749.3	30.05	763.3	53	11.7	64	n.	2	0.9			10 k		n.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.80	756.9	29.87	758.7	56.0	13.3	86	sw.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.23	742.4	29.82	757.4	65.5	18.6	97	s.	13	5.8			10 s		sw.	0.81	20.6	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.60	751.8	29.63	752.6	52	11.1	80	ne.	11	4.9			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.03	737.3	29.87	758.7	63.0	17.2	84	n.	2	0.9		1 cs	0			0.18	4.6	clear	P. F Lyons.
St. Vincent, Minnesota	29.00	736.6	29.84	757.9	54	12.2	93	se.	4	1.8		2 cs	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.44	646.2	29.66	753.4	66	18.9	35	n.	3	1.3		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.76	755.9	29.83	757.7	62.0	17.0	84	sw.	2	0.9			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.82	757.4	29.86	758.4	67.0	19.4	73	w.	19	8.5		5 k	0	w.		0	0	fair	B. A. Blundon.
Sanford, Florida	29.95	760.7			83	28.3	82	sw.	4	1.8		0	fg.			0.01	0.3	clear	J. B. Marbury.
San Francisco, California	29.83	757.7	29.90	759.4	51	10.0	93	sw.	12	5.4		3 cs	fg.	w.	w.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.87	758.7	29.96	761.0	80	26.7	82	nw.	8	3.6		2 c	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.23	666.2	29.80	756.9	51	10.0	66	sw	2	0.9		8 k	0	w.		0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.71	754.6	29.94	760.5	79.2	26.2	85	sw.	5	2.2		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory.	28.66	728.0	29.86	758.4	72.5	22.5	89	sw.	4	1.8		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.85	758.2	29.91	759.7	45.1	7.3	83	w.	2	0.9			10 n		w.	0.16	4.1	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.41	747.0	29.87	758.7	75.0	23.9	90	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.84	757.9	29.88	758.9	80.4	26.9	87	sw.	8	3.6		hz.	7 k		sw.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.21	708.9	29.95	760.7	55	12.8	80	s.	4	1.8		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.14	740.1	29.81	757.2	68	20.0	84	s.	5	2.2		0	8 s		w;s.	2.36	59.9	cloudy	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	26.92	683.8	29.84	757.9	73	22.8	82	s.	9	4 0		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona					64	17.8	45	calm			0	4 ck	0			0	0	fair	J. L. Whiteside.
Toledo, Ohio	29.18	741.2	29.86	758.4	64	17.8	73	w.	3	1.3		7 cs	sk.	w.		0	0	fair	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.42	747.3	29.45	748.0	46	7.8	83	sw.	16	7.2			10 s			0.30	7.6	threatening	Samuel Applegate.
Verde, Fort, Arizona					62	16.7	42	sw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.76	755.9	30.01	762.2	75.8	24.3	90	s.	5	2.2		4 c	0			0	0	fair	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.80	756.9	29.91	759.7	72.7	22.6	65	calm	0	0		5 c	0	nw.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	25.99	660.1	29.76	755.9	62.5	16.9	62	e.	3	1.3		3c;cs	0	w.		0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.84	757.9	29.89	759.2	80.0	26.7	88	sw.	1	0.4		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.03	727.2	29.91	759.7	66	18.9	78	n.	8	3.0		0	0			0.11	2.8	clear	J. H. Atfield.
Yuma, Arizona	29.53	750.0	29.67	753.6	76.9	24.9	47	se.	4	1.8		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.05	763.3	82	27.8	72	e	5	2.2		8 ck	2 s	e.	e.	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	76	24.4	91	se.			2	3 c	4 s	e.		0.430	10.9		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.43	747.5	29.99	761.7	75	23.9	94	calm			0		10 ks		s.	0.52	13.2	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75	23.9	92	s.			1	cs		n.		0.12	3.0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallon.
York Factory, B. A.	30.31	769.9	30.37	771.4	56.0	13.3	94	ne.	14	6.3		2 k	2 s	ne.	ne.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 45° 39′ E. 13° 45′	30.06	763.5	75	23.9	60	sw.			1		5	ssw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.05	763.5	75	23.9	75	sse.			3		7	sse						showery.
H. M. S. Gannet, N. 38° 55′, W. 20° 00′	30.41	772.4	66	18.9	74	nne.			2		8	ne.				3	nne.	d. clouds.
H. M. S. Himalaya, N. 36° 01′, W. 5° 55′	30.15	765.8	70	21.1	75	ese.			2		3					3	ene.	d. clouds.
H. M. S. Monarch, N. 45° 27′, E. 12° 51′	30.00	762.0	69	20.6		sse.			3		4	sse.				3	ese	d. clouds.
H. M. S. Minotaur, Arosa Bay, Spain	30.21	767.3	63	17.2	67	n.			1		5					1	wnw.	d. clouds.
H. M. S. Opal, Sierra Leone, Africa	30.01?	762.2?	83	28.3	79	calm			0		4	wsw.						d. clouds.
H. M. S. Superb, N. 45° 34′, E. 13° 31′*	30.09	764.3	70	21.1	70	wsw.			6		8	ene.				4	wsw.	d. clouds
H. M. S. Tyne, N. 6° 24′, W. 12° 48′	30.03?	762.7?	80	26.7	58	sse.			4		7	sse.				3	sse.	d. clouds.
H. M. S. Thetis, N. 38° 43′ W. 16° 48′	30.36	771.1	65	18.3	68	n.			3		10					3	nne.	overcast.
H. M. S. Tenedos, Britton Harbor, N. F	30.29	769.4	55	12.8	87	ese.			1		5	se.						foggy.
U. S. Navy Yard, Portsmouth, N. H.*	29.75	755.6	62	16.7	94	se.	2	0.9			10		e.	0	0			foggy.
U. S. S. Constellation, N. 37° 10′, W. 76° 10′ *	29.91	759.7	79	26.1	58	n			3		2		calm			mod.	n.	clear.
U. S. S. Lancaster, N. 59° 44′, E. 24° 35′	29.81	757.2	61	16.1	100	ene.			3		5		e.			sm'h		fair.
U. S. S. Nipsic, N. 41° 49′, W. 59° 00′*	30.15	765.8	63	17.2	89	se.			5		8		se.			sm'h		cloudy.
U. S. S. Portsmouth, off Conimicut, R.I.	29.80	756.9	69	20.6	90	ssw.			2		2							clear.
U. S. S. Powhatan, Port Royal, S.C	30.01	762.2	80	26.7	91	w.			2		5							fair
U. S. S. Quinnebaug, Gaboon river, Guinea	30.06	763.5	79	26.1	74	nw.			1		2		nw.			sm'h		clear.
U. S. S. Saratoga, Newport, R. I.	29.86	758.4	67	19.4	89	sw.			3		2		sw.	0	0			fair.
U. S. S. Vandalia, Port au Prince, Hayti, W.I.	30.12	765.0	80	26.7	78	e.			2		2		e.					fair.
U. S. S. Yantic, N 47° 18′, W. 52° 23′	30.38	771.6	44	6.7	100	ene.			3		10					sm'h		foggy.
Cottica, N. 18° 39′, W. 57° 40′	30.17	766.3	82	27.8	79	ene.			4		3							d. clouds
May Hulse, N. 7° 52′, W. 26° 40′	30.02	762.5	82.7	28.2	76	n.			2		2							blue sky.
St. Kilda, N 8° 06′, W 58° 50′	30.08	764.0	76.5	24.7	93	ne.			2		5							d. clouds.
H. P. M. S. Rio Lima, N. 21° 56′, W. 20° 36′	30.09	764.3	77.0	25.0	85	e.			3		3		nne.			3		d. clouds.
S. S. British Crown, N. 42° 41′, W. 56° 33′ †	30.27	768.8	63	17.2		s.			3		8		s.;nw.					misty.
S. S. British Prince, N. 47° 08′, W. 33° 31′ †	30.27	768.8	66	18.9		nw.			2					5 h'r	5 h'r	sm'h		foggy.
S. S. Illinois, Liverpool, Eng	29.93	760.2	52	11.1		e.			2		9		ene.					cloudy.
S. S. Lord Clive, N. 41° 34′, W. 49° 41′						e.			2		0			0	0	sm'h		fine.
S. S. Ohio, off Ballycottin, Ireland †	30.01	762.2	52	11.1		ne.			1		10		wnw.	0	0	mod.	w.	hazy.
S. S. Pennsylvania, N. 39° 04′, W. 70° 59′ †	29.97	761.2	73	22.8		sse.			1		1			0	0			clear.
S. S. Scandinavian, Charlestown, Mass	29.77	756.1	65	18.3		sse.			2		5		sse.					d. clouds.
S. S. Grecian, N. 47° 32′, W. 59° 39′	30.17	766.3	47	8.3	100	s.			4		10		s.	2 h'r	2 h'r	sm'h		dense fog.
S. S. Polynesian, N 48° 01′, W. 49° 13′	30.36	771.1	50	10.0		e.			2		10			0	0	sm'h	ne.	foggy.
S. S. Prussian, N. 48° 49′, W. 42° 42′	30.21	767.3	56	13.3		ne.			3		0			1 h'r	1 h'r	long	sw.	foggy.
S. S. Manitoban, N. 49° 51′, W. 39° 43′	30.37	771.4	57	13.9	81	nne.			1		8		nw.	0	0	sm'h		cloudy.
S. S. Alvo, San Juan, Porto Rica, W. I*	30.04	763.0	78	25.6		ese.			3-4		8		var.	4 h'r	4 h'r			cloudy.
S. S. Alene, Greytown, Nicaraguat	29.94	760.5				var.			1		8			3 h'r	3 h'r	r'gh	ene.	fine.
S. S. Anchoria, N. 45° 30′, W. 49° 30′ †	30.25	768.3				ene.			2		fg.		ene.	2 h'r	2 h'r	light	sw.	dense fog.
S. S. Dorian, Lisbon, Portugal	30.24	768.1				ene.			6		0			0	0			clear.
S. S. Furnesia, N. 41° 34′, W. 52° 15′ †	30.16	766.1	62	16.7	94	w.			2		10		wnw.	8 h'r	8 h'r	sm'h		overcast.
S. S. Carroll, Charlottetown, P.E. Island *†	30.15	765.8	63	17.2	94	s.			5		10		s.	sh'rs	sh'rs			showery.
S. S. Landaff City, Bristol, Eng †	29.87	758.7	60	15.6		e.			5		7		se.	shr's	shr's			showery
S. S. Scythia, N. 40° 39′, W. 70° 10′	29.85	758.2	64	17.8	100	s.			1		3		calm	0	0			clear.
S. S. Colina, N. 55° 09′, W. 16° 38′ †	29.84	757.9				s.			3		10		wsw.	4 h'r	4 h'r	sm'h		hazy.
S. S. Canada, N. 46° 29′, W. 37° 52′	30.38	771.6	55.4	13.0		nw.			1	ck	0			0	0	sm'h	nw.	dense haze.
S. S. Arizona, N. 46° 25′, W. 45° 48′			56	13.3		var.			1		5		ne.	0	0	sm'h		foggy.
S. S. Wyoming, N. 51° 10′, W. 11° 22′	30.12	765.0	58	14.4		nnw.			4		5		nnw.	0	0	sm'h		fair.
S. S. Bohemia, N. 51° 28′, E. 2° 00′						se.			2		10		se.	0	0	sm'h		overcast.
S. S. Frisia, N. 42° 30′ W. 41° 52′	30.28	769.1				calm			0		2		w.	0	0			fair.
S. S. Gellert, New York, N. Y	29.83	757.7	75	23.9	68	wnw.			1		2		nw.	0	0			clear.
S. S. Rugia, N. 41° 02′, W. 65° 44′	30.05	763.3	71	21.7		sse.			7		10		s.	rain	rain	sm'h	sw.	cloudy.
S. S. Mentmore, N. 41° 18′, W. 53° 20′*†	30.32	770.1				ne.			3		5		se.	0	0	sm'h		fine.
S. S. Bulgarian, N. 42° 44′, W. 66° 50′ *	29.95	760.7				s.			2		10		sw.	0	0	light	sw.	overcast.
S. S. Virginian, N. 51° 29′, W. 8° 31′ *	29.97	761.2	60	15.6		w.			3		8		wnw.	0	0	sm'h	wnw.	cloudy.
S. S. Archimedes, N. 47° 04′, W. 27° 09′	30.22	767.6				sw.			3		10		ssw.	0	0	sm'h		overcast.
S. S. Hevelius, N. 51° 13′, E. 4° 30′ †	29.92	760.0	67	19.4		nnw.			2		7		nw.	1 h'r	1 h'r	sm'h		fair.
S. S. Colorado, N. 27° 27′, W. 90° 17′ †	30.02	762.5	85	29.4		se.			2		1		se.	0	0	small	se.	clear.
S. S. Chalmette, N. 25° 10′, W. 80° 12′ †	30.15	765.8	80	26.7		se.			3		3		se.	1 h'r	1 h'r	sm'h		clear.
S. S. New York, N. 37° 10′ W. 74° 15′ *†	29.90	759.4	72	22.2		sw.			2		3		sw.			mod.	s.	clear.
S. S. Alleghany, N. 40° 30′ W. 69° 30′ †	29.71?	754.6?	58	14.4		sw.			2		0					h'vy	s.	dense fog.
S. S. City of Merida, N. 40° 44′, W. 74° 01′ †	29.79	756.7	75	23.9		sw.			1		5		sw.	0	0	mod.	sw.	fair.
S. S. Denmark, N. 40° 27′ W. 71° 00′ †	29.91	759.7	68	20.0		s.			3		5			0	0	sli't	se.	fair.
S. S. England, N. 41° 20′, W. 47° 20′	30.20	767.1				ne.			4		10		ne.	0	0	mod.	ne.	cloudy.
S. S. Helvetia, New York, N.Y	29.92	760.0	76	24.4	86	w.			1		8		w.	0	0			cloudy.
S. S. Holland, N. 45° 21′, W. 34° 50′	30.21	767.3	70	21.1		sw.			1		10		sw.			sm'h	sw.	cloudy.
S. S. The Queen, N. 51° 55′, W. 7° 32′	29.97	761.2	66	18.9	79	calm			0		2		n.	4 h'r	4 h'r	sm'h		hazy
S. S. Donau, N. 41° 30′, W. 61° 19′	30.18	766.6				s.			4		10		s.	0	0	mod.	s.	cloudy.
S. S. Elbe, N. 49° 35′ W. 11° 36′	30.19	766.9	56	13.3	75	nw.			3-4		10		nw.	1 h'r	1 h'r	long	nw.	covered.
S. S. Fulda, N 40° 09′, W 69° 33′	29.87	758.6	64	17.8	78	s.			1		0			0	0	mod.	se.	hazy.
S. S. Hohenstaufen, Weser river, Germany	29.98	761.5				nne.			3		4		ne.	0	0	sm'h	e.	fair.
S. S. Neckar, N. 49° 14′, W. 15° 49′	30.24	768.1	60.0	15.6	82	wnw.			4				wnw.	sq'lls	sq'lls	sm'h	wnw.	cloudy.
S. S. Oder, N. 51° 30′, E. 2° 11′	29.92	760.0	59	15.0		calm			0		10		se.	2 h'r	2 h'r	sm'h	ese.	overcast.
S. S. Ohio, N. 41° 03′, W. 45° 50′	30.33	770.4				sw.			2		0			2 h'r	2 h'r	sm'h		clear.
S. S. Salier, N. 48° 15′, W. 44° 15′*	30.27	768.8	45	7.2	53	ene.			5		10		nne.	0	0	high	sw.	foggy.
S. S. Werra, N. 42° 03′, W. 63° 00′	30.03	762.8	59	15.0		ssw.			4-5		4		sw.	0	0	sm'h	sw.	fair.
S. S. Weser, N. 51° 52′, E. 2° 34′	29.94	760.5	57	13.9		e.			2		8		ne.	1 h'r	1 h'r	mod.	e.	hazy.
S. S. City of Augusta, New York, N. Y	29.87	758.7				nnw.			6		10		nw.	0	0			cloudy.
S. S. Colon, Aspinwall, Panamat	29.87	758.7	78	25.6	95	se.			1		3		s.	2 h'r	2 h'r	sm'h		clear.
S. S. Muriel, St. Kitts, W.I.	30.21	767.3	82	27.8		e.			2		10		e.	0	0	sm'h		overcast.
S. S. Orinoco, Bermuda Islands, Atlantic †	30.12	765.0	79	26.1		ssw.			2		3		s.	0	0			clear.
S. S. Belgenland, N. 50° 14′, W. 5° 10′ †	30.04	763.0	61	16.1	82	calm			0		2			sh'rs	sh'rs	sm'h		squally.
S. S. Nederland, N 41° 17′, W. 66° 46′			59	15.0		se.			4		8		sse.	5 h'r	5 h'r	mod.	s.	foggy.
S. S. Rhynland, N. 46° 50′, W. 30° 00′	30.36	771.1	65	18.3	84	w.			3		10		w.	0	0	sm'h		dense fog.
S. S. Pennland, Antwerp, Belgium	30.00	762.0	66	18.9	89	w.			4		6		w.	0	0			fair.
S. S. Switzerland, N. 41° 35′, W. 47° 52′ †	30.31	769.9				ne.			1		2		ne.	0	0	sm'h		clear.
S. S. Waesland, Jersey City, N. J	29.90	759.4	74	23.3		w.			5		10		w.	0	0			cloudy.
S. S. P. Caland, N. 44° 42′, W. 37° 30′	30.29	769.4	67.6	19.8	94	se.			1		8		se.					foggy.
S. S. Schiedam, N. 41° 10′ W. 65° 19′	29.98	761.5	72	22.2	85	s.			5		9			4 h'r	4 h'r	cross	var.	rainy.
S. S. W. A. Scholten, N. 48° 44′, W. 25° 30′	30.15	765.8	63.0	17.2	89	wsw.			4		10		wnw.	3 h'r	3 h'r	1	w.	raining.
S. S. Belize, Kingston, Jamaica, W. I* †	30.15	765.8	86	30.0		ese.			6		2		ese.	0	0	sm'h		clear.
S. S. Valencia, Curacao, W. I †	30.20	767.1	82.5	28.1	61	ene.			6		2		ene.	0	0			clear.
S. S. State of Nevada, N. 47° 14′, W. 39° 23′ †	30.35	770.9	67	19.4		se.			2		10			8 h'r	8 h'r	long	sw.	dull.
S. S. Thingvalla, New York, N. Y †	29.87	758.7	73.6	23.1		wsw.			3		2		wsw.	0	0			clear.
S. S. Toledo, N. 32° 09′, E. 29° 35′ *†	30.02	762.5	79	26.1		wnw.			5		0			0	0	sli't	wnw.	clear.
S. S. Romano, New York, N. Y †	29.85	758.2	70	21.1					2		3			0	0			clear.
S. S. Oregon, N. 48° 04′, W. 50° 18′	30.29	769.4	42	5.6		se.			1		10		nnw.			mod.	sse.	foggy.
S. S. Daniel Steinmann, Montreal, Canada	29.72	754.9	70	21.1		sw.			2		7		sw.	2 h'r	2 h'r			fair.
S. S. Aries, N. 40° 00′, W. 73° 48′*†	29.82	757.4				w.			4		0			0	0	long	se.	clear.
S. S. Norman, N. 39° 56′, W. 75° 08′	29.77	756.1				nnw.			1		10		ne.	0	0			cloudy.
S. S. Saxon, N. 42° 10′, W. 70° 15′ †	29.80	756.9				ssw.			5		10							overcast.
S. S. Adriatic, N. 50° 57′, W. 15° 10′ *†	30.24	768.1	57	13.9		w.			5		10		w.	1 h'r	1 h'r	sli't	w.	raining.
S. S. Britannic, N. 51° 12′, W. 18° 02′ †	30.16	766.1	58	14.4		wsw.			3		10		w.	0	0	sm'h	w.	overcast.
S. S. Celtic, New York, N. Y †	29.87	758.7	69	20.6		wnw.			3		5		nw.	0	0			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Iowa, N. 48° 58′, W. 29° 20′ †	30.22	767.6	66	18.9		wsw.			3		10		wsw.	2 h'r	2 h'r	light	wsw.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.09	764.3	76.5	24.7	71	wnw.			2		0			0	0			clear.
Schr. Abbie H Gheen, Brooklyn, N. Y †	29.96	761.0	70	21.1		nw.			3									clear.
Bg. Abbie Clifford, N. 42° —′ W. 68° 45′ †	29.86	758.4	61	16.1		sse.			3		3			0	0	mod.	se.	
Bk. Aquidneck, N. 13° 39′, W. 33° 02′ *†	30.20	767.1				ene.			4					0	0	h'vy	ese.	clear
Schr. Anna A. Holton, N. 26° 58′, W. 74° 19′*†	30.08	764.0	84	28.9		s.			3		2		sw.	0	0	sm'h		clear.
Schr. Arthur Burton, Boston, Mass †	29.79	756.7				w.			1		0			0	0			fine.
Bk. Aureola, N. 47° 20′, W 29° 16′ †	30.33	770.4	69	20.6		ssw.			4		9		sw.	0	0	sm'h		cloudy.
Bk. Arda, Sackville, N. B†	29.85	758.2				s.			5		5		s.	0	0			fair.
Bk. Alba, N. 38° 54′, W. 74° 35′*†	29.96	761.0	70.5	20.4		e.			1								se.	
Bg. Belle of the Bay, Appalachicola, Fla †	30.01	762.2				sw.			5		4		sw.	0	0			clear.
Bk. Bayonnaise. N. 29° 24′, W. 22° 37′			68.0	20.0		ne.			5		0		ne.			r'gh	ne.	fair.
Schr. C. R. Flint, Tampico Bar, Mexico†	29.95	760.7	82	27.8		sw.			1		0			0	0	sm'h	e.	clear.
Bk. Cato, N. 69° 48′, E. 15° 03 *†	30.17	766.3				ssw.			3		5		ssw.			sm'h	ssw	fair.
S. Criterion, N. 40° 33′, W. 71° 00′ *†	29.78	756.4				wsw.			3		5		w.	0	0	sm'h		fine.
Schr. Clotilde, Tuspan Bar, Mexico*†	29.91	759.7	81	27.2		w			1		0					sm'h	se.	clear.
S. S. D. J. Foley, N. 24° 59′, W. 74° 10′*†	30.08	764.0	81	27.2	78	sse.			2		2		ese.	0	0	long	ene.	clear.
Bkt. David A. Preston, N. 29° 30′, W. 78° 10′						sw.			6		2		sw.	0	0	mod.	sw.	
S. E. J. Spicer, N. 40° 55′, W. 67° 55′	29.92	760.0	60	15.6	100	sw.			3		10		wnw.	rain	rain	mod.	sw.	rain & fog.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′			58	14.4		e.			4					0	0			clear.
U. S. Fish. Com. S. S. Fish Hawk, Cherrystone Va †	29.96	761.0	77	25.0	86	n.			2		2		calm	0	0			clear.
S. Festina Lente, N. 48° 03′, W. 61° 05′	30.14	765.5	49	9.4		se.			5		fg.			0	0	mod.	sse.	dense fog.
Schr. F. E. Waters, N. 27° 44′, W. 74° 53′*†	30.15	765.8				sw.			1				sw.	0	0	sm'h	ene.	fair.
Bk. George Davis, N. 55° 58′, W. 4° 15′						ne.			2				e.	0	0			d. clouds.
Bgt George, N. 19° 40′, W. 62° 00′ *†	30.11	764.8	80	26.7		ese.			2		2			0	0	mod.	n.	fair.
Bk. Galeon, N. 32° 52′, W. 76° 57′ †	29.97	761.2	82	27.8		nw.			1		3		nw.	driz	driz	sm'h	s.	misty.
Bk. Heinrich & Tonio, N. 40° 41′, W. 55° 40′†	30.15	765.8	66	18.9		ene.			2		0			0	0	sm'h		clear.
S. Hedwig, N. 41° 09′, E. 18° 14′	29.96	761.0	71.8	22.1	82	n.			1		5		n.	0	0	2	nnw.	fine.
Bk. Hattie G. McFarland, N. 40° 00′, W 73° 50′†	29.86	758.4	70	24.4		nw.			4		3		w.	0	0	long	s.	fine.
Bk. Harriett S. Jackson, N. 39° 25′, W. 71° 10′						ssw.			3		3			0	0	small	sse.	
Schr. Isabel Alberto, St. Augustine, Fla †	29.94	760.5				sw.			1		0			light	light			clear.
Bk. Johanne, N. 45° 58′, W. 55° 55′*†	30.25	768.3	48	8.9		ne.			3		10		var.	0	0	mod.	ne.	foggy.
Schr. John L. Thomas, Old Providence Island, C. A *†	30.06	763.5	88	31.1		ene.			4		2		e	1 h'r	1 h'r			clear.
Bg. John Wesley, N. 13° 03′, W. 26° 05′	29.94	760.5	80	26.7		ene.			3		7		se.	0	0	cross	var.	hazy.
Schr. Jennie N. Huddell, Charleston Bar, S. C †	29.92	760.0	81	27.2		nw.			2		5		sw.	0	0			fair.
S. J. W. Gildemeister, N. 21° 49′, W. 32° 58′	30.21	767.3	77.9	25.5	83	ene.			4-7		5 k		e.	0	0	4	var.	d. clouds.
Bkt. Kryolith, N. 60° 15′, W. 49° 00′*†	30.08	764.0				nw.			5		2		nw.	0	0	mod.	var.	
Bg. L. & W. Armstrong, N. 19° 47′, W. 57° 35′*†	30.22	767.6				ese.			3		1		se.	0	0	sm'h	se.	fine.
Light House Tender, Laurel, Dry Tortugas, Fla†	30.00	762.0	84	28.9		se.			1-2		2		se.	0	0			clear.
Bk. Louise Adelaide, N. 36° 05′, W. 74° 30′†	30.01	762.2	78	25.6		w.			1		0			0	0	sm'h	s.	clear.
S. S. Madrid, N. 36° 58′, W. 58° 35′†	30.17	766.3	72	22.2	80	ne.			4		3		nw.	0	0	sm'h	ne	fair.
Schr. Minnie A. Bonsall, Haverstraw, N. Y.†	29.82	757.4	73	22.8		nw.			5					0	0			clear.
Bgt. Myrtle, Mayagues, Porto Rico, W. I.*†	30.20	767.1				e.			3				e.	0	0			fair.
Schr. Maggie Abbott, N. 29° 35′, W. 74° 50′ †	30.09	764.3				sw.			4					0	0	sm'h	sw.	clear.
S. S. Mendoza, N. 39° 27′, W. 71° 23′ †	30.00	762.0				ssw.			2		2		ssw.	0	0	rg'h	se.	clear.
Bk. National Eagle, N. 39° 15′, W. 26° 50′						se.			1		2		ese.	0	0	sm'h		fair.
Bg. O. C. Clary, N. 18° 53′, W. 57° 30′ *†	30.14	765.5				se.			4		4		se.				sse.	fair.
Bk. Ottawa, N 55° 43′. E. 16° 08′	29.69	754.1	59	15.0		ne.			4		fg.			11 h'r	11 h'r	short	e.	dense fog.
S. Paramita, N. 31° 01′, W. 38° 54′†	30.41	772.4	80	26.7		ne.			3		1		ne.	0	0	long	nw.	clear.
S. S. Raleigh, N. 32° 35′, W. 74° 07′ †	29.96	761.0	80	26.7		ssw.			4		3		sw.	0	0	mod.	sw.	clear.
S. Rudolph, N. 46° 38′, W. 26° 06′			67.0	19.4		sw.			3		9		sw.	0	0	mod.	var.	foggy.
Bg. Rising Sun, N. 14° 31′, W. 60° 00′ †	30.12	765.0	85	29.4		e.			4		8		e.	0	0	mod.	e.	
Bk. Rosino, N. 37° 18′, W. 10° 24′			67	19.4		n.			7		0		n.	0	0	r'gh	n.	fair.
Bk. Saga, N. 40° 24′, W. 73° 21′ *†	29.87	758.6	67	19.4					1		5		w.	0	0	long	ese.	fair.
Bk. Sunbeam, N. 41° 30′, W. 30° 09′ †	30.40	772.1	66	18.9	84	sse.			5		10		s.	0	0	sm'h		overcast.
Bk. Southern Belle, N. 23° 45′, W. 55° 35′†	30.22	767.6	78	25.6		se.			3		0			0	0	light	nw.	clear.
S Sovereign of the Seas, N. 18° 00′, W. 30° 14′*†	30.30	769.6	80	26.7	82	ne.			5		3		ene.	0	0	r'gh	e.	hazy.
Bg. Teneriffe, N. 40° 25′, W. 63° 35′						sse.			8		8		se	0	0	r'gh		fair.
Bk. Tuck Sing, N. 23° 35′, W. 83° 30′*†	29.96	761.0				ese.			3		0			0	0	sm'h		clear.
Schr. Viola Reppard, Gardiner, Me†	29.84	757.9	65	18.3		calm			0		10			12 h'r	12 h'r			foggy.
Bkt. Wandering Jew, Matanzas, Cuba *†	30.02	762.5	80	26.7		calm			0		0		calm	0	0			fair.
Bgt. Sunlight, N. 24° 40′, W. 54° 30′						ese.			3		3		ese.	4 h'r	4 h'r	mod.	ese.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay †	30.50	774.7	48.5	9.2	98	se.			2		8					1	sse.	squally.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.35	770.9	64	17.8		ese.			2		3							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.45	773.4	47	8.3	92	sse.			3		9							d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.44	773.2	48	8.9	78	ese.	11	4.9			10		ese.	0.30	7.6	sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	30.44	773.2	48	8.9	63	e.			3		10		ese.			sm'h		cloudy
S. Annie M. Law, S. 35° 29′, E. 18° 16′ *†	30.40	772.1	61	16.1		sse.			1		0			0	0	long	wsw.	clear.
S. David Stewart, S. 3° 36′, W. 30° 01′†	29.90	759.4				ese.			3		1		se	0	0	mod.	se.	clear.
S. Wm. McGilvery, S. 41° 56′. W. 60° 00	30.40	772.1	46	7.8	69	w.			5		3		w.	0	0	sm'h		
S. S. Olbers, Rio de Janeiro, Brazil†	30.22	767.6	82	27.8	67	n.			2					0	0	sm'h		fair.
Bk. Achille F., S. 33° 30′, W. 47° —′ †	30.34	770.6	55	12.8	81	sse.			4		4		se.	0	0	h'vy	s.	fair.
Bk. Alpheus Marshall, S. 7° 50′, W. 23° 32′*†	29.93	760.2				e.			2		4		e.	0	0			fair.
Bk. Ceylon, S 11° 01′, W. 13° 27′*†	30.22	767.6	78	25.6	86	ese.			4		3		ese.	light	light	mod.	ese.	clear.
Bk. Gray Eagle, S. 22° 48′, W. 32° 14′*†	30.10	764.5				n.			2		0			0	0	sm'h		clear.
H. P. M. S. Douro, S. 5° 40′, E. 11° 52′	30.07	763.7	74.3	23.5	87	wsw.			3		4		sw.	0	0	3	sw.	d. clouds.
H. P. M. S. Duque de Terceira, S. 11° 10′, E. 13° 40′	30.04	762.9	75.9	24.4	77	w.			2		0			0	0	1		clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.81	757.2	73	22.8	81	calm			0		0							blue sky.
H. M. S. Champion, east coast of Borneo Island	29.77	756.1	83	28.3	83	nne.			1		7					1	sw.	d. clouds.
H. M. S. Espiegle, N. 5° 54′, E. 169° 43′	29.81	757.2	81	27.2	83	ne			3		5							showery
H. M. S. Flying Fish, N. 37° 34′, E. 121° 26′	29.83	757.7	70	21.1	90	calm			0		5							d clouds.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.87	758.7	82.1	27.8	81	nnw.			1		8	ene.						d. clouds
H. M. S. Zephyr, N. 34° 36′ E. 139° 00′	29.86	758.4	70	21.1	95	calm			0		10							overcast.
H. P. M. S. Famega, Macao, China	29.88	758.9	82.4	28.0	88	sw.			4		3			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.84	757.9	68	20.0	95	n.			1		10			0.01	0.3			raining.
U. S. S. Adams, Wrangle, Alaska†	29.94	760.5	50	10.0	93	ene.			1		10					sm'h		light rain.
U. S. S. Essex, Honolulu, Sandwich Ids	30.08	764.0	77	25.0	73	ne.			2		2		ne.			sm'h		clear.
U. S. S. Hartford, N. 19° 00′, W. 158° 15′ *	29.95	760.7	74	23.3	80	ene.			4		10		var.	light	light	mod.	var.	cloudy.
U. S. S. Monocacy, Salee river, Corea	29.79	756.7	70	21.1	52	ssw.			2		2		sw.					misty.
U. S. S. Palos, Hong Kong, China	29.73	755.1	89	31.7	71	s.			1		2		calm					clear.
U. S. S. Richmond, Shanghai, China *	29.62	752.3	78	25.6	95	sw.			1		10		sw.	4.	102.			cloudy.
S. S. Coptic, Yokohama, Japan	29.79	756.7	74.0	23.3	70	ssw.			2		0			0	0			clear
S. S. Oceanic, N. 45° 42′, W. 159° 14′	30.23	767.8	50	10.0	93	wsw.			6		10		sw.			sm'h	w.	foggy.
S. S. Columbia, N. 40° 26′, W. 124° 30′†	29.99	761.7	52	11.1	86	nnw.			3		0					light	nnw.	clear.
S. S Oregon, N. 42° 48′, W. 124° 46′†	30.10	764.5	54	12.2	80	calm			0		0					sm'h		clear.
S. S. Willamette, Seattle, Wash. Ter.†	30.13	765.3	55	12.8	93	calm			0		3		nnw.	0	0			clear.
S. S. Ancon, N. 36° 29′, W. 122° 03′ †	29.92	760.0	55	12.8	87	nnw.			0		8		nw.			r'gh	wnw.	cloudy.
S. S. City of Chester, Near Pt. Arenas, Cal †	29.96	761.0	51	10.6	86	nw.			6		10					hv'y	nw.	overcast.
S. S. Dakota, Tacoma, Wash. Ter †	30.03	762.7	53	11.7	73	ne.			2		8		w.			sm'h		cloudy.
S. S. Queen of the Pacific, San Francisco, Cal †	29.90	759.4	49	9.4		sw.			4		10			0	0			cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. City of New York, N. 6° 18′, W. 163° 12′†	29.86	758.4	78	25.6	82	e.			5		10		e.	2 h'r	2 h'r	mod.	ne.	squally.
S. S. City of Pekin, N. 46° 25′, W. 153° 50′†	30.12	765.0	48	8.9	92	sw.			5		10			0	0	small	sw.	misty.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.90	759.4	83	28.3	83	s.			1		2		sw.	0	0	sm'h		clear
S. S. Colima, Panama, Panama †	29.91	759.7	75	23.9	100	nne.			2		2		ne.	0	0			clear.
S. S. Granada, N. 35° 23′, W. 121° 10′†	29.91	759.7	54	12.2	67	wnw.			6		0			0	0	large	wnw.	clear.
S. S. San Blas, Acapulco, Mexico			80	26.7		sw.			1		8		calm	0	0	sm'h	sw.	cloudy.
S. S. San José, N. 23° 12′, W. 106° 35′ †	29.88	758.9	74	23.3		sse.			4		0			0	0	long	se.	clear.
S. S. Radnorshire, N. 31° 14′, E. 121° 28′ *†	29.75	755.6				wnw.			3		10		wnw.	3 h'r	3 h'r			overcast.
S. Sacramento, Zebu, Philippine Ids*†	29.94	760.5	82	27.8	83	ne.			2		8		ne.	3 h'r	3 h'r	sm'h		cloudy.
S. St. David, N. 24° 15′, E. 128° 10′ *†	29.94	760.5	82.3	27.9	87	ese.			4		3		ese.	0	0	light	ese.	clear.
Bk. Xenia, N. 30° 23′, E. 123° 27′ *†	29.94	760.5	80	26.7		ssw.			5		2		sw.	0	0	mod.	s.	foggy.
H. M. S. Sappho, N. 28° 22′, W. 115° 02′	29.84	757.9	64	17.8	94	nnw.			1		6	nnw.				2	nnw.	misty.
U. S. S. Ranger, N. 13° 41′, W. 90° 05′	29.93	760.2	80	26.7	96	ese.			4		10		e.	0.18	4.6	sm'h		overcast.
S. Henry Failing, Wilmington, Cal†	29.74	755.4	65	18.3		ne.			1		fg.			0	0	sm'h	wsw.	foggy.
S. Grecian, Yokohama, Japan†	29.81	757.2	69	20.6	90	n.			5		10		nw.	1 h'r	1 h'r			light rain.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W.			52	11.1	93	calm			0		2	sw.						d. clouds.
H. M. S. Kingfisher, S. 40° 12′, W. 99° 18′	29.83	757.7	53	11.7		sw.			2		6					4	ssw.	d. clouds.
H. M. S. Nelson, Souva, Feejee Ids	29.73	755.1	74	23.3	95	e.			2		10							raining.
U. S. S. Iroquois, Valparaiso, Chili	30.20	767.1	52	11.1	93	sse.			1		8							cloudy.
U. S. S. Lackawanna, Callao, Peru *	30.02	762.5	64	17.8	89	sse.			2		5		se.					fair.
U. S. S. Onward, Callao, Peru†	30.14	765.5	62	16.7	88	sse.			1		5		se.					fair.
U. S. S. Pensacola, Callao, Peru*	29.97	761.2	62	16.7	94	sse.			5		8		sse.	0	0			misty.
U. S. S. Wachusetts, S. 9° 51′, W. 141° 04′	29.99	761.7	80	26.7	82	e.			4		2		ne			mod	n.	clear.
S. S. Australia, Sydney, N. S. W.	30.10	764.5	54	12.2	93	w.			4		4		w.	0	0			fair.
H. M. S. Lark, S. 7° 18′, E. 155° 44′	29.82	757.4	82.3	27.9	81	ne.			5		10					2	e.	raining.
S. S. City of Sydney, S. 27° 18′, W. 178° 00′*†	30.28	769.1	66	18.9	74	ene.			6	8 c		ene.				r'gh	ene.	cloudy.
S. Parker M. Whitmore, S. 26° 55′, W. 107° 50′ *†	30.15	765.8	70	21.1		nw.			5		3		nw.	3 h'r	3 h'r	sm'h		clear.
S. Storm King, S. 18° 05′, W. 98° 40′ *†	30.24	768.1				ese.			4		1		se.	0	0	sm'h	se.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.04	763.0	81	27.2		sse			3		2	sse.				2	sse.	d. clouds.
U. S. S. Enterprise, S. 19° 32′, E. 43° 48′ *†	30.21	767.3	79	26.1	82	nnw.			1		2		calm			sm'h		clear.
U. S. S. Juniata, Colombo, Ceylon, India	29.81	757.2	83	28.3	76	sw.			2		10		sw.	0	0			cloudy.
S. S. Malabar, N. 5° 55′, E. 80° 43′*†	29.80	756.9				w.			6		5		sw.	4 h'r	4 h'r	hv'y	wsw.	fair.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 22, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.07	763.7	72.3	22.4	88	s.			1		0			0	0	clear	Malaterre.
Algiers			30.06	763.4	75.6	24.2	66	ne.			4		0			c	0	clear	Thève.
La Galle			30.03	762.8															Fonfrède.
Tunis			30.04	762.9															Jacques.
Saida			30.06	763.5															Pérès.
Tebessa			30.04	763.1	82.4	28.0	39	n.			2		0			0	0	clear	St. Martin.
Geriville					93.2	34.0	7	sw.			1		0			0	0	clear	Forfert.
Laghouat			30.01	762.3	95.0	35.0	11	n.			3		1			0	0	very fair	Abraham.
Biskra			29.99	761.8	102.2	39.0	19	nw.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.66	753.4	55.0	12.8	81	nw.	16	7.2			5 kn			0.790	20.1	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.29	743.9	29.38	746.2	53.9	12.2	83	nw.	4	1.8			9			0.44	11.2	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.24	742.6	29.78	756.4	55.2	12.9	95	n.			3		10			1.362	34.6	thund'rst'm	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.00	736.5	29.74	755.4	66.7	19.3	52		7.4	3.3			3					thund'rst'm	Dr. Wierzbiski
Eperies	28.89	733.7	29.73	755.1	70.0	21.1	57	calm			0	1 cs		se.		inap.	inap.		Julius Mikolik.
Gratz	28.61	726.7	29.82	757.4	66.9	19.4	70	nw.			5		8			0	0		Andreas Rospini.
Hermannstadt	28 39	721.2	29.78	756.5	64.9	18.3	66	n.			5		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.58	725.8	29.90	759.5	55.8	13.2	80	nne.			2		10			0.512	13.0	raining	The Staff.
Lemberg	28.73	729.7	29.69	754.0	64.8	18.2	52	ne.			5		5			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.72	755.0	29.83	757.7	73.8	23.2	74	sw.			3		2			0	0		I. R.Hydrographic Office.
Szathmar	29.27	743.5	29 72	754.8	72.3	22.4	88	w.			4		2			0	0		Joseph Midlinszky, S. J.
Szegedin	29.47	748.4	29.73	755.2	72.7	22.6	50	nw.			1		7			0.291	7.4		Karl Stancel.
Trieste	29.72	755.0	29.82	757.5	73.0	22.8	62	sw.			1		10			0.378	9.6		Royal Academy.
Vienna	29.16	740.6	29.87	758.6	56.5	13.6	75	w.			6		9			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.78	756.4	29.88	758.9	55.0	12.8	68	sse.	17	7.6			1			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.57	751.1	29.80	756.9	54.6	12.6	95	w.	5	2.2			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.91	759.7	58.4	14.7	68	sse.	13	5.8			10					overcast	John Hartnup.
Bolton, Sharples	29.39	746.5	29.92	760.0	56.1	13.4	81	s.	8	3.6			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.51	749.5	29.90	759.4	63.0	17.2	53	se.			2		7			0.01	0.3	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	83.0	28.3	71	ne.			2		3					d. clouds	Corpl. W. I. Cull, A.H.C
Cardington	29.91	759.7	30.01	762.2	66.2	19.0	67	sw.			1.0		7					d. clouds	John McLaren.
Chatham, School M. E.	29.90	759.4	30.03	762.7	60.6	15.9	73	sw.			1		7					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.78	756.4	30.00	762.0	58.0	14.4	96	ssw.			4		10					drizzling	The Staff.
Fort Napier, Natal	28.09	713.5	30.32	770.1	57.1	13.9	75	se.			1		10					overcast	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	86.0	30.0	80	n.			2		5					raining	J. W. Smith.
Galway, Queen's College	29.67?	753.6?	29.70?	754.4?	56	13.3	75	w.			2		6			0.30	7.6	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.04	763.0	30.10	764.5	72.8	22.7	81	e.			4		3					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.63	752.6	29.84	757 9	57.6	14.2	68	s.			6		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.86	758.4	30.03	762.7	60.9	16.1	74	sw.			1		10					overcast	The Staff.
Guernsey	29.80	756.9	30.09	764.3	61.3	16.3	75	wsw.			3		7			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.00	762.0	30.04	763.0	62.9	17.2	64	w.	11	4.9			9					d. clouds	The Staff.
Leicester, Museum	29.72	754.9	29.97	761.2	61.0	16.1	71	sw.			1		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.82	757.4	29.89	759.2	79.0	26.1	98	nw.					6					d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.11	764.8	30.15	765.8	86.5	30.3	72	sw.			3		7			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.46	748.3	29.98	761.5	58.0	14.4	76	s.			3		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.79	756.7	30.02	762.5	59.4	15.2	73	s.			4		10					overcast	The Staff.
Plymouth	29.95	760.7	30.02	762.5	56.2	13.4	96	s.			3		10					raining	John Merrifield.
Sandwick Manse, Orkneys.	29.76	755.9	29.86	758.4	55	12.8	68						5					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.78	756.4	29.84	757.9	82.6	28.1	54	sw.			1		3					d. clouds	W. H. Lyne.
Sheffield	29.67	753.6	29.94	760.5	63.2	17.3	83	ssw.			2		9			0.02	0.5	overcast	W. F. Cooper.
Silloth Rectory	29.84	757.9	29.87	758.7	60.0	15.6	64	w.			2		10			0.094	2.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. O. Carlisle.
Truro, Royal Institution	29.96	761.0	30.04	763.0	62	16.7	88	sw.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.93	760.2	29.95	760.7	57.2	14.0	72	w.	18	8.0			6			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.56	750.8	29.95	760.7	74.1	23.4	80	wnw.	19.9	8.9		7 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B					63.0	17.2		calm	0	0			10 n			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.95	760.7	61	16.1	89	se.	12	5.4			10 n			0.625	15.9	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.87	758.7	29.93	760.2	64	17.8	93	sw	2	0.9			10 s		sw.	0.30	7.6	cloudy	G. A. Blair.
Cornwall, Ontario	29.72	754.9	29.91	759.7	58.7	14.8	92	w.			1	0	7 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.86	758.4	29.90	759.4	56.5	13.6		e.			4		10 ks			0	0	gloomy	H. A. Johnson.
Father Point, Quebec*	29.84	757.9	29.86	758.4	48	8.9	93	nw.	20	8.9			fg.			0.12	3.0	foggy	J. McWilliams.
Fort Garry, Manitoba*	28.96	735.6	29.77	756.1	61	16.1	90	s.	8	3.6			10 ks		ne.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.86	758.4	29.93	760.2	64.0	17.8	89	se.	4	1.8			mist			0.010	0.3	misty	Prof. Harrison, L. L. D.
Granton, Ontario	28.91	734.3	30.00	762.0	56.0	13.3	100	calm	0	0		2 k	0	w.		0	0	fine	Jas. Grant.
Halifax, N. S*	29.84	757.9	29.96	761.0	56	13.3	100	se.	4	1.8			fg.			1.224	31.1	foggy	A. Allison.
Hamilton, Ontario	29.57	751.1	29.96	761.0	59.7	15.4	91	sw.			1	2 k	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.63	752.6	29.96	761.0	58	14.4	90	s.	1	0.4		0	5 k		nw.	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.08	764.0	30.12	765.0	52.8	11.6	91	s.			4		10 n			0	0	cloudy	C. H. McLeod, C. E.
London, Ontario	29.16	740.7	30.05	763.3	57.7	14.3	97	calm				0	0			0	0	blue sky	E. B. Reed.
Montreal, Quebec*	29.72	754.9	29.92	760.0	61	16.1	81	sw.	4	1.8			10 n			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.69	754.1	29.93	760.2	62.6	17.0	90	sw.			1	2 k	0			0.12	3.0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.31	744.5	29.99	761.7	60	15.6	78	sw.	7	3.1		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.26	743.2	30.00	762.0	61.7	16.5	83	calm			0	2 c	0	w.		0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.32	744.7	30.01	762.2	57	13.9	94	calm	0	0		0	0			0	0	clear	H Morgan.
Port Stanley, Ontario	29.35	745.5	29.99	761.7	58	14.4	93	w.	2	0.9		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.53	750.0	29.88	758.9	60	15.0	100	s	8	3.6			10 s		sw.	0.04	1.0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.49	749.0	29.94	760.5	57	13.9	83	nw.	5	2.2		5 k	0	nw.		0	0	fair	W. H. McIntyre.
St. Andrews, N .B	29.84	757.9	29.90	759.4	55	12.8	96	se.	1	0.4			fg.			0.02	0.5	foggy	
St. John, N. B	29.76	755.9	29.92	760.0	60.0	15.6	100	se.	1	0.4			10 s			1.820	46.2	overcast	G. Murdock, C. E.
Saint John's, N. F	30.06	763.5	30.31	769.9	48	8.9	93	se.			1		10 n			0.01	0.3	rain & fog	J. Higgins.
St. Pierre, N. F			30.12	765.0	53.6	12.0		e.			2					0	0		The Commandant.
Saugeen, Ontario*	29.28	743.7	29.98	761.5	61	16.1	87	w.	6	2.7		0	0			0	0	clear	
Stratford, Ontario	28.75	730.2	30.01	762.2	58.9	14.9	87	calm	0	0		0	0			0	0	blue sky	C. J. Macgregor, M A.
Sydney, C. B*	30.04	763.0	30.11	764.8	55	12.8	90	se.	6	2.7			10 n			0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.64	752.8	30.01	762.2	62	16.7	87	calm	0	0		0	5 ks		n.	0	0	fair	Magnetic Observatory.
Windsor, N. S	29.83	757.7	29.92	760.0	62.0	16.7	91	se.	4	1.8			10 n			0	0	overcast	Prof. W. B. Butler, M.A.
Woodstock, Ontario	28.95	735.3	29.98	761.5	63.0	17.2	77	w.	3	1.3		0	0			0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.84	757.9	29.91	759.7	58	14.4	100	se.	1	0.4		hz	0			0.03	0.8	hazy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	30.35	770.9	30.38	771.6	64.0	17.8	82	e.	13.4	6.0		0	0			0	0	light haze	John Duthie
Springbok Fontein	28.17	715.5			72	22.2	16	n.											J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.66	753.3	29.77	756.1	82.2	27.9	54	sw.			1		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.75	755.7	29.78	756.3	78.8	26.0	93	ne.	2.2	1.0		6 ck	0			0.008	0.3		M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.72	754.9	29.77	756.1	61.7	16.5	81	nne.	11	5			10						Oversergent Fischer.
Fanoe	29.86	758.5	29.88	759.0	58.6	14.8	81	wnw.			4		5						Overlcerer Lauridsen.
Godthaab, Greenland	30.15	765.8	30.19	766.9	46.8	8.2	57	nne.			2		1						S. Kleinschmidt.
Jacobshavn, Greenland	30.10	764 6	30.15	765.8	38.5	3.6		nw.			2		6						
Stykkisholm, Iceland	29.77	756.2	29.82	757.3	48.4	9.1	92	nw.			2		5						A. O. Thorlacius.
Thorshavn	29.90	759.4	29.92	760.0	48.9	9.4	99	e.	7	3			10					foggy	Overloerer Bergh.
Vestervig	29.75	755.7	29.84	758.0	56.3	13.5	90	nnw.			2		10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.72	754.9			93.6	34.2		ne.	8.9	4.0		0	0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.67	753.6	30.31	769.9	64.4	18	76	wnw.			1		kn			0.028	0.7		M. Labroue, Director.
Alençon, Normal School	29.59	751.6	30.14	765.5	63.0	17.2	74	sw.			1		n		ne.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	30.06	763.4	30.13	765.4	71.2	21.8	45	nnw.			2		2		nw.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.56	750.8	30.11	764.8	60.8	16.0	60	wsw.			2	0	8kn		wnw.	0.150	3.8	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.82	757.5	30.08	764.1	64.4	18	59	w.			1		10		nw.	0.20	5.	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.19	741.3	30.08	764.0	58.1	14.5	78	sw.			1	0	0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.97	761.3	30.23	767.8	66.7	19.3	57	nw.			1		8		w.	0.043	1.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.61	752.1	30.15	765.8	63.5	17.5	61	wnw.			3		n		wnw.	0.256	6.5		M. Malet, Director.
Brest, Naval Observatory	29.92	760.0	30.21	767.2	61.2	16.2	87	sw.			3		10		sw.	0	0		M. de Kermarrec, Dir.
Caen, Normal School	29.99	761.8	30.06	763.6	65.5	18.6	73	wnw.			1		5		wnw.	0.350	8.9	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.73	755.2	30.05	763.2	65.7	18.7	64	wsw.			6		5		wnw.	0.051	1.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.52	749.9	30.03	762.7	62.6	17.0	66	w.			2		8		nne.	0.28	7.	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.82	732.1	30.17	766.2	60.8	16.0	54	w.			2		10			0.020	0.5	covered	M. Alluard, Director.
Cluny, Normal School	29.31	744.4	30.19	766.8	57.6	14.2	70	nw.			3		7		nw.	0.295	7.5		M. de Villemontés, Dir.
Commercy, Normal School	29.22	742.2	30.07	763.8	58.1	14.5	73	w.			1		n	w.	w.	0.244	6.2		Dr. Coulet, Director.
Gap, Normal School	27.54	699.4	30.02	762.5	62.6	17	52	ne.			1	0	1 k		w.	0	0		M. Jeangirard, Director.
Grésasque, du Rhone	28.98	736.1	30.09	764.3	64.8	18.2	35	nw.			6		3		nw.	0	0		M. Kina, Director.
Grenoble. Normal School	29.40	746.8	30.17	766.2	59.7	15.4	61	nw.			2	ck	0	nw.		0	0		M. Ablard, Director.
Guéret, Normal School	28.60	726.4	30.18	766.6	56.8	13.8	78	w.			1	0	2 k		sw.	0.335	8.5	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.96	760.9	30.22	767 7	66.2	19	66	sw.					k		sw.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.68	753.9	30.24	768.1	66.2	19.0	54	sw.			1	0	5 k			0.055	1.4	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.09	764.2	30.19	766.8	63.0	17.2	65	sw.			2		8	w.	sw.	0.165	4.2	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.12	739.6	30.18	766.5	59.7	15.4	53	n.			2	0	8 k; n		nw.	0.370	9.4	very cloudy	M. André, Director.
Mans, Normal School	29.84	758.0	30.15	765.7	63.0	17.2	68	nw.			1		5		nw.	0.256	6.5	cloudy	M. Piboën, Director.
Marseille, Observatory	29.80	756.8	30.06	763.6	70.2	21.2	41	wnw.			4		4		nw.	0	0		M. Stephan, Director.
Montlouis	25.01	635.2	29.85	758.2	53.6	12.0	43	nw.	16.8	7.5			3	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.02	762.4	30.14	765.5	68.4	20.2	57	nnw.			4		5		nnw.	0	0	fair	M. Galzin, Director.
Nancy, Normal School	29.26	743.3	30.04	763.0	59.7	15.4	81	wsw.			2		kn		nw.	0.189	4.8		M. Hasse, Director.
Nantes, Observatory	30.04	763.1	30.21	767.2	66.4	19.1	54	wnw.			1–2	c	5kn; k		wnw.	0.220	5.6		M. Larocque, Director.
Perpignan, Observatory	30.09	764.3	30.20	767.1	70.0	21.1	43	nw.	20.6	9.2			2		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.0			36.0	2.2		nw.			1		1		nw.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.21	742.0	30.28	769.0	61.2	16.2	58	ne.			1	0	1 k		ne.	0.441	11.2	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.26	641.7			39.0	3.9	98	w.			4		10			0.299	7.6	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.18	766.6	30.21	767.4	70.9	21.6	53	wnw.			2		5		w.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.96	760.9	30.17	766.2	67.3	19.6	63	sw.			1		2		e.	0.35	9.	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	28.04	712.1	30.18	766.5	56.5	13.6		nw.			3	0	5 kn			0.071	1.8	fair	M. Seger, Director.
Rouen, Normal School	29.65	753.2	30.10	764.4	64.0	17.8	68	wnw.			1		8	wnw.		0.114	2.9	very cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	30.30	769.6	30.11	764.7	63.7	17.6	63	w.			1		8		w.	0.130	3.3		M. Renou, Director.
Toulouse, Observatory	29.57	751.0	30.30	769.5	67.1	19.5	56	nw.			2		5	nw.		0.016	0.4	cloudy	M. Baillaud, Director.
Tours	29.97	761.3	30.15	765.8	64.0	17.8	60	wsw.			1		5	w.	w.	0.575	14.6	cloudy	M. de Tastes.
Versailles, Observatory	29.62	752.3	30.11	764.7	61.5	16.4	66	nw.			1					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.15	765.7	30.30	769.5	67.5	19.7	63	w.	15.7	7.0		0	7 k		w.	0.012	0.3	dense haze	M. Cartier, Director.
German.																			
Ansbach	28.53	724.7	29.97	761.3	56.1	13.4	82	w.			4		10	w.		0.165	4.2		Prof. Jnedt.
Bamberg	29.06	738.1	29.90	759.5	62.2	16.8	70	w.			2	0	8 k		w.	0.161	4.1	raining	Prof. Dr. Hoh.
Berlin	29.69	754.2	29.83	757.7	69.1	20.6	39	nw.			3		9			0	0		Dr. Sensch.
Breslau	29.31	744.4	29.84	757.8	65.3	18.5	52	nnw.			2		7			0	0		Royal University Obs'y.
Carlsruhe	29.56	750.9	30.02	762.4	62.2	16.8	58	sw.			4		9	sw.		0.276	7.0		Albert Senz.
Cassel	29.22	742 3	29.94	760.4	62.2	16.8	79	w.			2		10	sw.		0.189	4.8	thund'r st'm	Dr. H. Möhl.
Frankfort-on-the-Main			29.95	760.6	63.5	17.5	68	wsw.			1		9			0.035	0.9		Physical Society.
Friedrichshafen	28.65	727.7	30.06	763.6	56.3	13.5	66	sw.			5		6	wsw.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.83	757.6	29.92	759.9	60.3	15.7	73	nw.			5		7	nne.		0	0		E. Preller.
Kiel	29.85	758.2	29.87	758.6	60.6	15.9	69	wnw.			5		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.47	748.4	29.87	758.8	67.1	19.5	46	nw.			2		9	wnw.		0.004	0.1		H. Leppig, Asst.
Magdeburg	29.67	753 6	29.85	758.2	69.4	20.8	46	wnw.			3		3	nw.		0	0		Weather Observatory
Memel	29.61	752.2	29.66	753 4	58.8	14.9	90	w.			3		10					raining	Issermann.
Munich	28.17	715.6	30.04	762.9	54.9	12.7	75	sw.			4		8	w.		0.740	18.8		Central Station.
Neufahrwasser	29.69	754.2	29.71	754.6	61.7	16.5	72	nw.			3		10			0	0		A. Lothes.
Neustadt, Palatinate	29.42	747.2	29.94	760.5	63.3	17.4	47	w.			2		8	w.		0.189	4.8		Dicknether.
Stuttgart	29.04	737.6	29.92	759.9	61.7	16.5	53	w.			4		6	w.		0.130	3.2	rainy	Prof. Dr. Schoder.
Wustrow	29.87	758.8	29.90	759.4	64.0	17.8	82	wnw.			5		10 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.49	749.0	29.82	757.4	82.4	28.0		s.			2.0		4 k			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.59	751.5	29.64	752.7	90.2	32.3	63	w.	22.0	9.8			0			0	0	blue sky	
Deesa	29.14	740.2	29.60	751.9	96.3	35.7	37	sw.	7.0	3.1			7	sw.		0	0	d. clouds	
Bombay	29.66	753.5	29.70	754.4	85.2	29.6	78	w.	9.0	4.0			10	wsw.	w.	0.04	1.0	overcast	
Poona, Yarrowda	27.84	707.2	29.67	753.6	83.8	28.8	62	wnw.	23.0	10.3			9			0	0	d. clouds	
Trichinopoly	29.47	748.6	29.75	755.4	86.8	30.4	52	sw.	2.0	0.9			10	ne.	ne.	0	0	overcast	
Belgaum	27.19	690.7	29.71	754.7	77.5	25.3	72	sw.	11.0	4.9			3	w.		0	0	d clouds	
Lahore	28.70	728.9	29.39	746.5	109.3	42.9	15	wnw.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.53	724.6	29.37	746.1	103.3	39.6	34	calm	0	0			0			0	0		
Agra	28.89	733.7	29.42	747.2	108.1	42.3	20	n.	4.0	1.8			3		n.	0	0	d. clouds	
Nagpur	28.58	726.0	29.62	752.2	81.5	27.5	79	calm	1.0	0.4			9		sw.	0	0	gloomy	
Jubbulpore	28.25	717.6	29.59	751.5	83.5	28.6	67	w.	6.0	2.7			8		w.			drizzling	
Lucknow	29.08	738.7	29.44	747.8	98.0	36.7	50	ene.	4.0	1.8			8	ne.		0	0	d. clouds	
Allahabad	29.14	740.3	29.44	747.8	99.6	37.6	39	calm	0	0			10			0	0	misty	
Patna	29.36	745.8	29.55	750.4	82.4	28.0	87	se.	2.6	1.2			10	se.	se.	0	0	overcast	
Hazaribagh	27.58	700.6	29.57	751.1	78.5	25.8	83	ese.	5.7	2.6			10			0	0	thunder	
Cuttack	29.59	751.7	29.68	753.8	79.2	26.2	84	calm	0	0			10		wnw.	0.21	5.3	drizzling	
Calcutta, Alipore	29.60	751.7	29.62	752.3	82.5	28.1	87	ssw.	7.5	3.4			9		sw.	0.01	0.3	d. clouds	
Dhubri	29.47	748.5	29.58	751.4	82.5	28.1	83	sw.	3.8	1.7			1			0.03	0.8	d. clouds	
Chittagong	29.61	752.1	29.70	754.4	80.2	26.8	86	s.	6.7	3.0			2			0	0	blue sky	
Sibsagar	29.29	743.8	29.62	752.2	84.6	29.2	78	sw.	2.0	0.9			10	w.	w.	0.15	3.8	d. clouds	
Jeypore	28.10	713.8	29.48	748.7	100.9	38.3	29	nnw.	14.5	6.5			6		n.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.03	762.6	30.05	763.2	82.3	27.9	65	se.	9.4	4.2			7	s.	se.	0	0	d. clouds	
Bellary	28.19	716.0			94.0	34.4	38	w.	8	3.6		4 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.42	747.2	29.82	757.3	63.1	17.3	76	se.	4.9	2.2			10			0.839	21.3		Prof. Giovanni Clodig.
Milan	29.35	745.4	29.85	758.1	70.5	21.4	28	nw.	13.7	6.1			6	nnw.		0.091	2.3		Prof. G.V.Schiapparelli.
Padua	29.67	753.5	29.77	756.2	71.2	21.8	53	wsw.	11.2	5.0			10	wsw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.97	735.9	29.85	758.2	69.6	20.9	57	w.	10.5	4.7			2			0	0		Prof. F. F. Denza.
Genoa	29.69	754.1	29.87	758.8	69.4	20.8	58	sw.	4.3	1.9			1	n.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.99	711.0	29.85	758.1	67.3	19.6	31	nw.			6		0			0	0		Prof. D. C. Bruno.
Pesaro	29.72	754.9	29.77	756.1	76.3	24.6	82	w.	22.4	10.0			6			0	0		Prof. Luigi Guidi.
Florence	29.62	752.4	29.87	758.8	71.6	22.0	46	sw.			6		6			0	0		Prof. Costantino Pittei.
Leghorn	29.77	756.2	29.85	758.3	68.9	20.5	61	w.	4.9	2.2			4	w.		0	0		Prof. P. Monte.
Rome	29.74	755.3	29.91	759.6	75.9	24.4	49	w.	14.3	6.4			1			0.016	0.4		Prof. P. Tacchini.
Lecce	29.56	750.8	29.80	757.0	82.0	27.8	44	sw.	15.0	6.7			2	sw.		0.012	0.3		Prof. C. de Giorgi.
Cosenza	29.04	737.6	29.89	759.2	84.6	29.2	67	wnw.	3.8	1.7			5	w.		0	0		Prof. D. Conti.
Cagliari	29.82	757.3	30.00	762.1	76.8	24.9	36	nw.			6		0			0	0		Prof. A. Pacinotti.
Palermo	29.74	755.4	29.98	761.6	76.3	24.6	55	nw.	13.7	6.1			6	nw.		0	0		Prof. G. Caccintore.
Syracuse	29.82	757.5	29.87	758.6	79.7	26.5	68	e.	6.9	3.1			10	sw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.39	746.4	29.89	759.3	74.5	23.6	54	w.	8.1	3.6			0			0	0		Prof. F. Brioschi.
Stelvio	22.10	561.3			30.2	—1.0	86	ne.			4		10			0.504	12.8	misty	Prof. P. F. Denza.
Valdobbia	22.08	560.8			33.4	0.8	74	n.			6		5			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.86	758.4	29.89	759.3	62.1	16.7	95	calm			0	5ck;c	0	w.		0	0	fair	H. Hattori.
Awomori	29.81	757.2	29.84	757.9	63.5	17.5	60	w.	5.5	2.5		1 cs	0			0	0	clear	K. Ogawa.
Hamamatsu	29.87	758.7	29.90	759.4	69.3	20.7	90	calm			0		10 n			0.091	2.3	raining	Y. Sekigawa.
Kanazawa	29.77	756.2	29.87	758.7	69.7	20.9	84	e.	5.9	2.6			10ck;s			0	0	overcast	S. Endo.
Kagoshima	29.84	758.0	29.86	758.3	77.9	25.5	84	calm			0		10 s			0.305	8.0	overcast	G. Miyanohaza.
Kioto	29.70	754.5	29.88	758.9	72.5	22.5	76	ne.	1.2	0.5			10 s			0.003	0.1	cloudy	M. Tojima.
Kochi	29.84	757.9	29.86	758.4	71.7	22.1	97	w.	8.4	3.8			10 n			2.40	60.9	raining	K. Kusunose.
Miasaka	29.83	757.7	29.86	758.4	71.7	22.1	93	ne.			2		10 n		ene.	0.984	25.0	raining	K. Masusaki.
Miyako	29.76	756.0	29.87	758.8	57.0	13.9	99	s.	1.1	0.4		9 ck	0			0.008	0.2	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.64	752.8	29.84	757.9	69.5	20.8	95	ne.	3.0	1.3			10 n			1.630	41.4	raining	S. Takehayashi.
Niigata	29.85	758.2	29.88	758.9	66.8	19.3	89	nne.	1.6	0.7		4 cs; c	3 ks;s	w.	w.	0	0	cloudy	M. Morita.
Nobiru	29.83	757.8	29.85	758.2	64.4	18.0	89	sse.	3.3	1.5		4 cs	0	sw.		0	0	fair	H. Midzushima.
Numazu	29.84	757.9	29.88	758.9	67.9	19.9	92	nne.			1	5 ck	5 s			0.008	0.2	cloudy	R. Kaneda.
Osaka	29.85	758.1	29.86	758.6	71.9	22.2	79	ne.	5.7	2.5			10s;ks			0.030	0.8	cloudy	H. Omura.
Sakai	29.86	758.4	29.87	758.6	69.3	20.7	86	n.			2		9 ks		ene.	0	0	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	29.80	757.0	29.87	758.8	68.4	20.2	96	sse.	2.5	1.1		10 cs	0			0.010	0.2	covered	The Staff.
Wakayama	29.81	757.1	29.86	758.4	72.1	22.3	83	calm	0	0			10 n			0.229	5.8	light rain	K. Sakai.
Shimonoseki	29.71	754.7	29.86	758.4	68.6	20.3	95	calm			0		10 n			0.256	6.5	raining	S. Sakaino.
MAURITIUS.																			
Mauritius Observatory	29.90	759.4	30.09	764.3	74.3	23.5	66	ese.	10.5	4.7		0	5ks;kn		e.	0.05	1.3	fair	The Staff.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	60.8	16.0	82	e.	5.1	2.3		2 cs	8 kn		nne.	0.150	3.8	very cloudy	Prof. Vicente Fernandez.
Leon	24.34	618.2	29.96	761.0	61.9	16.6	93	nnw.	0.9	0.4		3 c	7ck;s	se.	se.	0.111	2.8	covered	Prof. M. Leal.
Mazatlan	29.70	754.2	29.95	760.8	78.0	25.6	91	nnw.	1.6	0.8			10 n		w.	0.079	2.0	covered	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					76	24.4	97	e.	9.6	4.3		0	7 k		s.	0.38	9.7		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.03	762.8	30.03	762.8	62.8	17.1		n.			3					0.354	9.0		
Groningen	29.92	759.9	29.97	761.3	58.3	14.6		nw.			2					0	0		
Helder	30.00	762.1	30.00	762.1	56.7	13.7		nw.			2					0	0		
Hellevoetsluis	30.01	762.2	30.01	762.2	65.7	18.7	66	nnw.			1					0.043	1.1		
Utrecht	29.97	761.1	30.01	762.3	64.2	17.9	62	nnw.			2		8			0.079	2.0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.6			81.3	27.4	82	nne.	0.5	0.2			7			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.86	758.4	29.92	760.0	63.7	17.6	57	ssw.	4	2			9			0	0		
Brono	29.98	761.5	30.02	762.5	59.4	15.2	68	n.			4		1			0	0		
Christiania	29.83	757.7	29.89	759.3	69.3	20.7	44	ne.	11	5			10			0	0		
Gjæsvær	30.05	763.2	30.07	763.8	46.8	8.2		w.			6		10						
Lodingen	30.08	763.9	30.12	765.1	55.0	12.8	52	ne.			4		0			0	0		
PORTUGUESE.																			
Angra, Azores	30.14	765.5	30.30	769.5	61.9	16.6	96	sse.	8.1	3.6			10			0.532	13.5		Dr. J. A. Sampaio.
Campo Major	29.13	739.9	30.09	764.3	82.0	27.8	25	nnw.	2.5	1.1						0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.18	766.5	30.26	768.7	69.8	21.0	58	sw.					9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	757.8	30.17	766.2	72.3	22.4	40	nne.	8.1	3.6			0			0	0		The Staff.
Ponta Delgada, Azores	30.30	769.5	30.37	771.3	63.7	17.6	84	sw.	5.6	2.5			10			0	0		
Saint Paul de Loanda	29.83	757.6	30.03	762.7	74.8	23.8	91	wnw.			1		1	ssw.	ssw.	0	0		
San Salvador	28.13	714.5	29.95	760.8	82.0	27.8	42	e.			2		0			0	0		
Serra da Estrella	25.48	647.3	30.16	766.0	57.6	14.2	40	se.	10.5	4.7			0			0	0		
RUSSIAN.																			
Akmolinski	28.74	730.0	29.74	755.3	88.9	31.6	26	se.	2	1		0	2 k			0	0		Major K. Lasarew.
Archangel	29.97	761.3	29.99	761.8	59.7	15.4	45	n.	4	2		0	4 ks			0	0		Capt. Sseliwerstow
Ashurada	29.63	752.7	29.54	750.3	84.9	29.4	69	wnw.	11	5		0	1 k			0	0		
Astrakhan	29.71	754.5	29.62	752.4	83.3	28.5	56	ne.	4	2		0	8 s			0.362	9.2	light clouds.	Capt. Wisganow.
Baku	29.61	752.1	29.56	750.9	85.3	29.6	49	nne.	9	4		0	1 ks			0	0		
Barnaul	29.43	747.4	29.91	759.7	63.3	17.4	49	calm	0	0			10			inap.	inap.		Meteorological Obs'y
Bielosersk	29.20	743.1	29.72	754.9	51.1	10.6	90	nne.	18	8			10 ks			0.146	3.7		
Dorpat	29.45	747.9	29.68	753.9	58.6	14.6	76	ene.	13	6			10 ks			0	0		Observatory.
Ekaterinburg	28.78	730.9	29.67	753.5	89.8	32.1	25	w.	9	4		4 ck	0			0	0		Meteorological Obs'y
Elissawetgrad	29.21	742.0	29.65	753.0	66.0	18.9	56	wsw.	9	4			9 kn			inap.	inap.		
Irkutsk	28.15	715.0	29.78	756.3	49.3	9.6	92	n.			3		10			2.610*	66.3*		
Kasalinsk	29.18	741.1	29.35	745.6	96.8	36.0	46	e.	4	2		0	8						
Kasan	29.28	743.6	29.53	750.0	72.7	22.6	82	sse.	9	4			9 kn			0	0		Observatory.
Kem	30.04	762.9	30.09	764.2	56.5	13.6	57	e.	13	6		0	3 ks			0	0		
Kertch	29.73	755.1	29.75	755.7	71.6	22.0	44	calm	0	0		0	6 n			0.083	2.1		Lagorio & Sastyrez.
Kieff	28.88	733.6	29.49	749.0	66.6	19.5	62	nw.	4	2		0	6ks;n			0.799	20.3		Observatory.
Kosloy	28.99	736.3	29.50	749.2	76.1	24.5	64	ssw.	13	6		0	5 ks			blank	blank		
Libau	29.60	751.8	29.62	752.4	59.5	15.3	90	ene.	9	4			10			0.799	20.3		E. Quaas.
Lugan	29.40	746.7	29.58	751.2	74.1	23.4	38	wsw.	22	10			7			0	0		Meteorological Obs'y.
Moscow	28.97	735.7	29.41	747.0	70.3	21.3	78	se.	4.5	2.0			10 n					raining	Meteorological Obs'y
Nikolaiev	29.67	753.7	29.75	755.6	67.1	19.5	69	sw.	18	8			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.65	753.1	29.74	755.3	52.9	11.6	68	calm	0	0			10			0.118	3.0		Iwanow.
Pekin, China	29.59	751.5	29.73	755.1	85.3	29.6	40	calm	0	0		5 cs	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.32	744.6	29.64	752.8	93.7	34.3	25	nnw.	1.1	0.5		1 ck	0			0	0		
Petrozavodsk	29.69	754.0	29.88	758.9	57.2	14.0	56	ne.	27	12		3 ck	0			0	0		Dr. Bergmann.
Pinsk	29.11	739.5	29.60	751.8	57.2	14.0	98	w.	18	8			10 n			0.118	3.0		
Poti	29.76	755.9	29.79	756.7	64.4	18.0	92	sw.	12.5	5.6			10 n			0.433	11.0	raining	

* Total for 2 days.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
St. Petersburg	29.77	756.2	29.80	756.8	56.8	13.8	60	ene.	18	8			9 kn			0	0		Central Physical Obs'y.
Samarkand	27.34	694.4	29.64	752.8	86.4	30.2	41	calm	0	0		0	1 k			0	0		
Semipalatinsk	29.24	742.8	29.86	758.4	82.6	28.1	28	calm	0	0		0	0			0	0		Major Lasarew
Sevastopol	29.57	751.0	29.78	756.5	73.4	23.0	45	wsw.	27	12		0	2 ks			0	0		
Staroi Bykhov	29.07	738.4	29.51	749.5	68.5	20.3	72	s.	16	7			10 kn			0.024	0.6		
Tashkend	28.04	712.2	29.55	750.6	96.4	35.8	29	calm	0	0			9 ks;n			0	0		Terch, A. M.
Tiflis	28.36	720.4	29.75	755.7	59.9	15.5	87	nw.	13	6			10 n			0.437	11.1	heavy rain	Physical Observatory.
Vernoe	27.22	691.4	29.54	750.4	84.2	29.0	41	calm	0	0		0	0			0	0		
Viatka	28.87	733.2	29.45	748.0	83.5	28.6	42	se.	4	2			8			0.114	2.9		
Warsaw	29.30	744.2	29.71	754.7	60.6	15.9	70	nw.	4	2			10 k			0.287	7.3	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.57	751.0	29.84	758.0	65.5	18.6	41	w.	9	4			8			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.75	755.6	53	11.7	93	sse.			4		10			0.2	5.	raining	J. Youngclause.
North Unst			29.87	758.7				e.			3		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.09	764.3	30.19	766.9	69.1	20.6	64	s.	4.5	2.0		0	0			0.102	2.6	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.22	767.7	30.28	769.2	71.8	22.1	57	nw.	2.7	1.2		2	3	sw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.28	693.0	30.21	767.4	64.0	17.8	46	n.	2.5	1.1		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.97	710.5	30.12	765.1	74.1	23.4	31	nw.	5.1	2.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.02	762.4	30.15	765.7	77.4	25.2	63	ene.	7.2	3.2		0	2			0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.50	749.2	30.26	768.5	60.8	16.0	54	e	6.9	3.1		2 k	4 k	e.	e.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.31	744.4	30.19	766.9	66.0	18.9	54	ne.	8.1	3.6			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.03	762.7	30.09	764.4	76.6	24.8	88	e.	4.5	2.0		9 cs	0	sw.		1.91	48.6	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.88	759.0	80.8	27.1	85	nnw.	0	0		4 c	5 ks			0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.03	762.7	30.13	765.3	75.9	24.4	66	wsw.	5.2	2.3		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.03	762.8	30.12	765.1	80.6	27.0	92	s.	6.7	3.0		2 c	5 kn	s.	s.	0.787	20.0	cloudy	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.04	763.1	30.08	764.1	68.7	20.4	37	w.			4		2			0	0		
Umea	30.02	762.5	30.07	763.8	66.6	19.2	39	se.			6		0			0	0		
Hernosand	29.98	761.5	30.03	762.8	67.3	19.6	50	ne.			6		0			0	0		
Stockholm	29.69	754.0	29.86	758.5	66.2	19.0	40	ene.			6		2			0	0		
Wisby	29.67	753.6	29.73	755.1	58.6	14.8	76	e.			4		10			0.720	18.3		
Sub-series.																			
Upsala	29.78	756.5	29.87	758.7	66.4	19.1	39	ene.	18.3	8.2			3			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.74	730.1	30.17	766.4	54.5	12.5	67	w.			2		10			0.563	14.3	covered	The Observatory.
TURKISH.																			
Constantinople			29.88	759.0	78.8	26.0	43	s.	9	4.0			4		sw.	0	0		The Observatory.
Valona			29.97	761.2	80.1	26.7		s.			3		2			0	0	stormy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	756.8	86.9	30.5	58	sw.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.66	677.2			75	23.9	64	w.			0.5					1.12	28.4	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.89	759.2	29.97	761.2	66.5	19.2	63	w.	3	1.3		7 c	0	w.		inap.	inap.	fair	J. O. Barnes.
Alpena, Michigan	29.38	746.2	30.03	762.7	62	16.7	73	nw.	6	2.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	29.81	757.2	54	12.2	48	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.19	690.6	29.98	761.5	51	10.6	66	calm	0	0		0	0			0.03	0.8	clear	B. O. Lenoir.
Atlanta, Georgia	28.86	733.0	30.01	762.2	78.0	25.6	74	s.	6	2.7		4 c	0	nw.		inap.	inap.	fair	Edward A. Beals.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	71	21.7	84	w.	5	2.2		9 ck	0			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.80	756.9	29.99	761.7	74.0	23.3	90	w.	5	2.2			10 s		nw.	0.27	6.9	cloudy	John Healy.
Baltimore, Maryland	29.90	759.4	29.94	760.5	73	22.8	66	n.	4	1.8		0	0			0	0	clear	Geo. W. Feiger.
Barnegat City, New Jersey	29.90	759.4	29.92	760.0	72.0	22.2	82	n.	4	1.8		6 ck	0			0	0	fair	G. A. Hill.
Behring Id., Behring Sea	30.00	762.0	30.02	762.5	39.5	4.2	94	s.	7	3.1		1 ck	2 s	w.		0.03	0.8	clear	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.28	718.3	29.82	757.4	65.0	18.3	90	s.	1	0.4		0	0			1.32	33.5	clear	A. Pritchard.
Benton, Fort, Montana	27.14	689.3	29.91	759.7	51	10.6	74	calm	0	0		0	0			0.02	0.5	clear	S. Wheaton.
Billings, Montana	26.77	679.9	29.91	759.7	50	10.0	66	calm	0	0		0	0			0	0	clear	T. Gibson.
Bismarck, Dakota	28.01	711.4	29.77	756.1	63	17.2	90	sw.	10	4.5		0	0			0.70	17.8	clear	Cyrus Cramer.
Block Island, Rhode Island	29.90	759.4	29.92	760.0	63	17.2	93	n.	6	2.7		0	8 ks		w.	0.11	2.8	cloudy	J. T. Elker.
Boise City, Idaho	27.12	688.8	29.90	759.4	51	10.6		ne.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.76	755.9	29.91	759.7	69.5	20.8	59	w.	7	3.1		3 k	3 s	w.		inap.	inap.	fair	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.97	761.2	83.5	28.6	77	se.	4	1.8		0	0			0	0	clear	E. C. Imlay.
Buffalo, New York	29.27	743.4	30.01	762.2	60	15.6	93	s.	2	0.9		1 k	sk.	sw.		0	0	clear	W. Finn.
Buford, Fort, Dakota	27.91	708.9	29.87	758.7	58	14.4	86	w.	17	7.6		0	4 ks		nw.	0.58	14.7	fair	A. Schneider.
Burlington, Vermont																			D. N. Farnell.
Cairo, Illinois	29.63	752.6	30.02	762.5	73.8	23.2	86	sw.	4	1.8		7 ck	0	w.		0	0	fair	W. H. Ray.
Cape Henry, Virginia	29.89	759.2	29.91	759.7	73.0	22.8	90	ne.	10	4.5			10 s			0.05	1.3	cloudy	A. K. Alderson.
Cape May, New Jersey	29.88	758.9	29.91	759.7	70.0	21.1	84	nw.	2	0.9		0	7 s		w.	0	0	fair	W. E. Smith.
Cape Mendocino, California	29.33	745.0	30.01	762.2	50	10.0	86	nw.			2		10 ks		nw.	0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	84	28.9	74	w.	9	4.0		0	2 k		w.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.90	759.4	29.96	761.0	82	27.8	74	w.	4	1.8		0	8 ks		sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.13	739.9	29.97	761.2	72.0	22.2	76	nw.	2	0.9			10 s		w.	1.76	44.7	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.19	741.4	30.00	762.0	77.0	25.0	76	sw.	5	2.2		0	9 ks		w.	0.05	1.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.08	611.6	29.82	757.4	55.2	12.9	55	n.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.31	744.5	30.00	762.0	60.9	16.1	77	n.	6	2.7		0	0			0.20	5.1	clear	John Laurens.
Chincoteague, Virginia	29.88	758.9	29.90	759.4	71	21.7	90	e.	4	1.8			9 ks		s.	0.12	3.0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.35	745.5	30.00	762.0	70.0	21.1	76	ne.	4	1.8		1 ck	0	w.		0.05	1.3	clear	L. Dunne.
Cleveland, Ohio	29.30	744.2	30.03	762.7	60.3	15.7	71	se.	3	1.3		1 c	0	w.		0	0	clear	J. B. Newlin.
Coleman City, Texas	28.20	716.3	29.95	760.7	73	22.8	73	se.	4	1.8		3 cs	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.16	740.7	30.00	762.0	62	16.7	84	s.	1	0.4		0	0			0.44	11.2	clear	D. Cuthbertson.
Concho, Fort, Texas	28.06	712.7	29.93	760.2	75.0	23.9	74	s.	12	5.4		5 cs	0			0	0	fair	J. McGlone.
Davenport, Iowa	29.35	745.5	29.99	761.7	68	20.0	84	e.	8	3.6		6 cs	1ks;hz	w.	se.	inap.	inap.	fair	R. R. Martin.
Davis, Fort, Texas	25.23	640.8	29.84	757.9	71	21.7	53	s.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.22	716.8	29.96	761.0	42.5	5.8	75	calm	0	0		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.39	644.9	29.83	757.7	57	13.9	62	ne.	2	0.9		3 c	0	w.		0.04	1.0	clear	F. Willson.
Delaware Breakwater, Del.	29.91	759.7	29.93	760.2	67	19.4	90	n.	4	1.8		4 ck	2 s			0	0	fair	T. S. Townsend.
Denver, Colorado	24.74	628.4	29.78	756.4	66.0	18.9	48	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.09	738.9	29.97	761.2	64.5	18.1	92	e.	3	1.3		5 c;cs	2 ks			0	0	fair	F. W. Conrad.
Detroit, Michigan	29.30	744.2	29.99	761.7	66.0	18.9	68	calm	0	0		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.32	693.9	29.82	757.4	71	21.7	71	sw.	5	2.2		0	0			0	0	clear	D. J. Carr.
Dubuque, Iowa	29.32	744.7	30.01	762.2	62.3	16.8	90	ne.	2	0.9			fg			0.10	2.5	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.24	742.7	29.97	761.2	63	17.2	84	calm	0	0			10s;fg			0	0	cloudy	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho																			H. B. Boynton.
Eastport, Maine	29.84	757.9	29.91	759.7	53.0	11.7	96	calm	0	0			fg.			0	0	dense fog	D. O. Murphy.
Elliott, Fort, Texas	27.21	691.1	29.88	758.9	69	20.6	49	s.	8	3.6		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.28	667.5	29.87	758.7	77.0	25.0	47	calm	0	0		0	7 s		se.	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.30	744.2	30.02	762.5	63	17.2	78	sw.	4	1.8		1 c	0	w.		0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.36	745.7	30.01	762.2	63.0	17.2	78	n.	3	1.3		hz.	hz.			0	0	dense haze	George Heathcote.
Galveston, Texas	30.00	762.0	30.04	763.0	84	28.9	72	sw.	8	3.6		3 ck	3 ks	sw.		0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.35	745.5	30.00	762.0	65.5	18.6	70	nw.	1	0.4		0	0			0	0	clear	J. E. Mueller.
Grant, Fort, Arizona					68.9	20.5	42	e.	2	0.9		0	1 s			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.90	759.4	29.92	760.0	79	26.1	91	sw.	10	4.5		9 k	0	sw.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.87	657.1	29.99	761.7	50	10.0	66	sw.	5	2.2		0	0			0.07	1.8	clear	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.43	722.1	29.77	756.1	66.7	19.3	84	s.	9	4.0		1 cs	3 s			0.58	14.7	fair	S. W. Glenn.
Indianapolis, Indiana	29 20	741.7	29.98	761.5	72.0	22.2	76	se.	2	0.9		4 k	4 n			0.21	5.3	threatening	C. F. R. Wappenhans.
Indianola, Texas	29.97	761.2	30.00	762.0	81.2	27.3	86	s.	6	2.7		3 k	0	s.		0	0	clear	I. A. Reed.
Jacksonville Florida	30.02	762.5	30.06	763.5	82.5	28.1	80	sw.	12	5.4		6 cs	0			0	0	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.34	745.2	29.98	761.5	71.0	21.7	84	e.	4	1.8		1 cs	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	81.5	27.5	79	se.	2	0.9		10 cs	0			0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	29.89	759.2	29.91	759.7	75	23.9	90	se.	2	0.9			10 ks		se.	0.01	0.3	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	28.97	735.8	29.98	761.5	68.8	20.4	92	nw.	1	0.4		5 cs	3 s		w.	0.07	1.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.00	762.0	66	18.9	73	s.	2	0.9			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.06	738.1	29.93	760.2	76	24.4	76	se.	6	2.7		1 cs	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.13	739.9	29.95	760.7	51.0	10.6	72	calm	0	0		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	79	26.1	88	se.	4	1.8		0	0 s			0	0	fair	W. U. Simons.
Los Angeles, California	29.54	750.3	29.93	760.2	54	12.2	86	w.	1	0.4		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.40	746.7	29.95	760.7	69.5	20.8	87	ne.	4	1.8			10 s			0.03	0.8	cloudy	L. M. Dey.
Lynchburg, Virginia	29.27	743.4	29.94	760.5	73	22.8	59	nw.	2	0.9		0	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.39	746.5	30.03	762.7	57.4	14.1	69	nw.	6	2.7		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.89	759.2	29.90	759.4	73.0	22.8	90	sw.	8	3.6		0	9 n		sw.	0.22	5.6	light rain	William Daly.
Maginnis, Fort, Montana	25.60	650.2	29.93	760.2	60	15.6	52	w.	4	1.8		0	0			0.06	1.5	clear	F. Burke.
Marquette, Michigan	29.29	744.0	30.01	762.2	63	17.2	67	w.	1	0.4		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.02	762.5	71	21.7	100	n.	1	0.4			10 n		n.	2.15	54.6	thund'rst'm	D. T. Flannery.
Milwaukee, Wisconsin	29.27	743.4	30.01	762.2	66	18.9	73	n.	2	0.9		0	sk.			0.17	4.3	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.04	763.0	30.08	764.0	81.2	27.3	86	sw.	2	0.9		3 k;c	1 ks	nw.		0	0	fair	C. A. Read.
Montgomery, Alabama	29.71	754.6	29.94	760.5	80	26.7	74	sw.	10	4.5		5 k;hz	0	nw.		0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.86	733.0	29.83	757.7	60	15.6	65	s.	10	4.5		0	0			0	0	clear	H. White.
Mt. Washington, N. H.	23.85	605.8	29.97	761.2	46.0	7.8	93	ne.	2	0.9		1 k	0	ne.		0.36	9.1	clear	S. W. Beall.
Nashville, Tennessee	29.41	747.0	29.97	761.2	73.0	22.8	82	nw.	6	2.7			10 ks		w.	0.46	11.7	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.81	757.2	29.92	760.0	67	19.4	68	n.	9	4.0		2 c	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.90	759.4	29.95	760.7	71	21.7	66	n.	1	0.4		3 k	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	82.0	27.8	77	sw.	1	0.4		0	1 k		sw.	0	0	clear	M. Herman.
New York, New York	29.79	756.7	29.96	761.0	71	21.7	61	n.	6	2.7		3 cs	0	n.		0	0	clear	G. E. Franklin.
Norfolk, Virginia	29.87	758.7	29.90	759.4	76.0	24.4	74	e.	6	2.7		0	6 k		w.	inap.	inap.	fair	Wm. Davis.
North Platte, Nebraska	27.04	686.8	29.84	757.9	69.6	20.9	64	e.	20	8.9		0	4 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.06	763.5	30.10	764.5	43.0	6.1	74	calm	0	0			10 s		s.	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.88	733.5	30.02	762.5	67.0	19.4	93	n.	4	1.8			10 n		n	0.79	20.1	thund'r st'm	A. Pollak.
Ooglaamie, Alaska	29.88	758.9	29.90	759.4	26.8	— 2.9	100	ne.	11	4.9			10 n			0.01	0.3	light snow.	P. H. Ray.
Oswego, New York	29.65	753.1	29.97	761.2	60.5	15.8	83	w.	6	2.7		1 cs	0			0	0	clear	J. G. Linsley.
Palestine, Texas	29.52	749.8	30.06	763.5	79.0	26.1	82	s.	4	1.8		1 c	0			0	0	clear	J. W. Byram.
Pensacola, Florida	30.05	763.3	30.08	764.0	80.7	27.1	90	sw.	4	1.8		7c;cs	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa	29.87	758.7	29.97	761.2	69.5	20.8	90	ne.	10	4.5		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.08	459.2	29.90	759.4	36	2.2	79	sw.	32	14.3		0	0			0	0	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.20	741.7	30.00	762.0	60.5	15.8	93	calm	0	0		0	0			0	0	clear	W. A. Reid.
Poplar River, Montana	27.87	707.9	29.97	761.2				sw.			6	0	0			0.04	1.0	clear	W. D. Maxwell.
Port Huron, Michigan	29.29	744 0	29.96	761.0	64.0	17.8	78	se.	4	1.8		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.86	758.4	29.91	759.7	63	17.2	90	se.	1	0.4			10s;fg			0	0	cloudy	W. W. Eichelberger
Portland, Oregon	29.97	761.2	30.04	763.0	45.0	7.2	96	n.	2	0.9			fg.			0	0	dense fog	M. L. Hearne.
Portsmouth, N. C.					77	25.0	76	nw.	8	3.6			10 n		nw.	0.05	1.3	light rain	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	29.80	756.9	53.8	12.1	45	s.	4	1.8		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.89	759.2	29.92	760.0	67	19.4	76	w.	6	2.7		1 c	6s;hz	w.	w.	0	0	fair	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.59	751.6	29.94	760.5	62	16.7	60	e.	0	2.7		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.48	748.8	30.03	762.7	44.5	6.9	81	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.86	758.4	29.93	760.2	56.5	13.6	86	s.	0	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.42	747.3	30.01	762.2	70.3	21.3	92	sw.	4	1.8		0	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.51	749.5	29.54	750.3	52	11.1	80	ne.	1	0.4		0	4 ks			0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.14	740.1	29.98	761.5	65.5	18.6	90	nw.	1	0.4		10 k	0	e.		0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	28.91	734.3	29.76	755.9	60	15.6	93	se.	8	3.6			10 n			inap.	inap.	light rain	C. B. Dilley
Salt Lake City, Utah	25.53	648.5	29.75	755.6	66	18.9	35	se.	9	4.0		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.83	757.7	29.90	759.4	63.3	17.4	87	se.	1	0.4			fg.			0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.91	759.7	29.94	760.5	66.0	18.9	84	ne.	13	5.8		3 ck	0	ne.		0	0	clear	B. A. Blundon.
Sanford, Florida	30.02	762.5			82.0	27.8	82	w.	4	1.8		7 c	fg.	w.		0	0	fair	J. B. Marbury.
San Francisco, California	29.91	759.7	29.98	761.5	53	11.7	86	sw	8	3.6			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	82	27.8	72	w.	10	4.5		8 cs	0			0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.36	669.5	29.92	760.0	48	8.9	93	nw.	4	1.8		1 k	0	s.		0.12	3.0	clear	A. L. Mathews.
Shreveport, Louisiana	29.82	757.4	30.05	763.3	79.0	26.1	82	sw.	1	0.4		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.73	729.7	29.93	760.2	76	24.4	85	calm	0	0		3 c	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.56	750.8	29.62	752.3	51	10.6	72	e.	18	8.0			10 ks		e.	0.12	3.0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.53	750.0	29.99	761.7	77.5	25.3	90	se.	2	0.9		2 cs	0	s.		0	0	clear	J. B. Campbell.
Smithville North Carolina	29.88	758.9	29.92	760.0	77.0	25.0	79	nw.	1	0.4		0	7 s		w.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	30.05	763.3	50	10.0	86	calm	0	0		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.35	745.5	30.02	762.5	65	18.3	92	ne.	4	1.8			10 s		ne.	0	0	cloudy	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	26.96	684.8	29.88	758.9	73	22.8	90	se.	9	4.0		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona					67	19.4	39	calm			0	3 ck	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.31	744.5	29.99	761.7	70	21.1	71	w.	2	0.9		0	0			0	0	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.40	746.7	29.43	747.5	44	6.7	83	sw.	12	5.4			10 n			0.06	1.5	light rain	Samuel Applegate.
Verde, Fort, Arizona					63	17.2	30	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.84	757.9	30.09	764.3	77.5	25.3	88	e.	0	2.7		0	8k;s		e.	0	0	cloudy	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.85	758.2	29.96	761 0	70.3	21.3	79	n.	3	1.3		0	0			0.77	19.6	clear	B. M. Purssell.
West Las Animas, Colorado	25.97	659.6	29.74	755.4	67.9	19.9	44	w.	12	5.4		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.88	758.9	29.93	760.2	76.0	24.4	85	calm	0	0		0	4 k			0.17	4.3	fair	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.55	725.2	29.83	757.7	66	18.9	84	se.	21	9.4			10 ks		se.	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.63	752.6	29.77	756.1	79.0	26.1	62	se.	12	5.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia			30.08	764.0	81	27.2	67	calm	0	0		1 cs	0			0	0	fine	Joaquin Gomez.
Kingston, Jamaica, W. I.					77	25.0	86	se.			1		8 ks	e.	e.	0.100	2.5	cloudy	Robert Johnston.
Paramaribo, S. A.	30.10	764.5	30.11	764.8	78	25.6	89	ne.			1	0	7 k		s.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.42	747.3	29.98	761.5	77	25.0	92	nnw.			1	cs	8 ks		e.	1.25	31.7	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.																			Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Ang. Wallos
York Factory, B. A.	30.24	768.1	30.30	769.6	54.0	12.2	100	ne.	10	4.5			10 n		n.	0.10	2.5	raining	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 45° 28′, E. 12° 59′	29.81	757.2	75	23.9	64	s.			2		2	ssw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.12	765.0	77.5	25.3	82	ssw.			2		3	ssw.						d. clouds.
H. M. S. Gannet, N. 41° 10′, W. 19° 15′	30.35	770.9	66	18.9	65	wnw.			2		3					2	nne.	d. clouds.
S. S. Himalaya, N. 38° 05′, W. 9° 40′	30.18	766.6	67	19.4	84	nne.			6		0					5	nnw.	blue sky.
S. S. Monarch, Malamocco, Italy	29.81	757.2	64	17.8		sse.			2		10					5	sse.	thnd'r shr's.
H. M. S. Minotaur, Arosa Bay, Spain	30.23	767.8	64	17.8	67	nne.			2		2	sw.				1	wnw.	d. clouds
H M. S. Opal, N. 8° 22′, W. 13° 37′	29.97	761.2	81	27.2	83	ssw.			2		5	ssw.				3	ssw.	d. clouds.
H. M. S. Tyne, N. 5° 18′, W. 8° 35′	30.04?	763.0?	80	26.7	74	se.			3		7	se.				3	se.	d. clouds.
H. M. S. Thetis, N. 40° 32′, W. 15° 10′	30.36	771.1	63	17.2	83	n.			2		8	wsw.				2	nnw.	d. clouds.
H. M. S. Tenedos, Britton Harbor, N. F	30.19	766.8	58	14.4	88	calm			0									foggy
U. S. Navy Yard, Portsmouth, N. H*	29.86	758 4	64	17.8	94	calm	0	0			0			0.10	2.5			foggy.
U. S. S. Constellation, N. 37° 06′, W. 76° 09′*	29.91	759.7	74	23.3	86	ese.			2		8					mod.	s.	cloudy.
U. S. S. Dale, N. 37° 06′, W. 76° 11′	29.90	759.4	75	23.9	90	ene.			3		8					sm'h		fair.
U. S. S. Lancaster, Stockholm, Sweden	29.84	757.9	61	16.1	100	calm			0		2		calm			sm'h		fair.
U. S. S. Nipsic, N. 41° 38 W. 58° 32′ *	30.19	766.8	64	17.8	89	ese.			4		2		se.			sm'h		fair.
U. S. S. Portsmouth, Newport, R.I.	29.95	760.7	66	18.9	94	sw.			1		5		w.					fair.
U. S. S. Powhatan, Port Royal, S. C	29.96	761.0	81	27.2	91	wsw.			2		8		w.					cloudy.
U. S. S. Quinnebaug, Gaboon river, Gulnea	30.06	763.5	77	25.0	77	ssw.			1		8		s.			sm'h		fair.
U. S. S. Saratoga, Newport, R.I.	29.95	760.7	65	18.3	84	s.			1		2?		s.	0	0	sm'h		overcast?
U. S. S. Vandalia, Port au Prince, Hayti, W.I.	30.10	764.5	83	28.3	75	e.			2		0							clear.
U. S. S. Yantic, St. Johns, N.F	30.24	768.1	49	9.4	93	ese.			1		10							drizzling.
Cottica, N. 21° 23′, W. 57° 30′	30.25	768.3	81.5	27.5	89	se.			5		6							showery.
May Hulse, N. 8° 25′, W. 28° 24′	30.03	762.7	81	27.2	78	n.			3		2							blue sky
S. S. St. Kilda, N. 9° 46′, W. 58° 50′	30.12	765.0	77.9	25.5	82	ene.			3		7							d. clouds.
H. P. M. S. Rio Lima, N. 22° 55′, W. 20° 30′	30.15	765.9	72.7	22.6	91	ene.			4		5		nne.			3		d. clouds.
S. S. British Crown, N. 41° 43′, W. 62° 53′			66	18.9		w.			2		7		s.; nw.	0	0			hazy.
S. S. British Prince, N. 48° 55′, W. 26° 20′†	30.17	766.3	66	18.9		nw.			4		6		wnw.	0	0	sli't	nw.	cloudy.
S. S. Illinois, Liverpool, Eng	29.88	758.9	58	14.4		sw.			3		10		s.					overcast.
S. S. Lord Clive, N. 43° 40′, W. 44° 01′						s.			3		4		sw.	0	0	sm'h		fine.
S. S. Ohio, N. 51° 00′, W. 14° 12′ †	29.97	761.2	56	13.3		w.			5		10		calm	shr's	shr's	mod.	w.	cloudy.
S. S Pennsylvania, N. 39° 27′, W. 65° 15′†	29.90	759.4	69	20.6		sse.			2		5		se.	4 h'r	4 h'r	sm'n		fine.
S. S. Grecian, N. 46° 22′ W. 53° 12′	30.10	764.5	45	7.2	100	ene.			3		10			6 h'r	6 h'r	sm'h		dense fog.
S. S. Scandinavian, Charlestown, Mass	29.81	757.2	76	24.4		se.			2		0							blue sky.
S. S. Polynesian, N. 46° 47′, W. 51° 57′	30.25	768.3	50	10.0		s.			2		10			0	0	sm'h	s.	foggy.
S. S. Prussian, N. 47° 09′, W. 48° 31′	30.15	765.8	49	9.4		e.			2		0			0	0	sm'h	ne.	foggy.
S. S. Manitoban, N. 48° 30′, W. 46° 02′	30.28	769.1	49	9.4	85	se.			1		10		n.	0	0			foggy.
S. S. Alvo, San Juan, Porto Rico, W. I*	30.08	764.0	78	25.6		ese.			3–4		8		var.	0	0			cloudy.
S. S. Alene, Greytown, Nicaragua†	29.97	761.2				calm			0		2		ne.	0	0	long	ne.	fine.
S. S. Anchoria, N. 43° 50′, W. 56° 12′†	30.16	766.1				ene.			2		hz.		e.	0	0	sm'h		hazy.
S. S. Dorian, Villa Real, Portugal	30.22	767.6				calm			0					0	0			clear.
S. S. Furnesia, N. 41° 33′, W. 56° 01†	30.21	767.3	66	18.9	94	wnw.			2		8		wnw.	½ h'r	½ h'r	sm'h		cloudy.
S. S. Carroll, Port Hawkesbury, C.B *†	30.22	767.6	52	11.1	100	s.			4		10		rain	rain				showery.
S. S. Jerome, N. 38° 41′, W. 71° 13′			70	21.1	80	ne.			2		1			0	0	sli't	se.	clear.
S. S. Llandaff City, Bristol, Eng †	29.92	760.0	62	16.7		sw.			6		8		sw.	shr's	shr's			showery.
S. S. Bothnia, N. 43° 57′, W. 45° 04′	30.23	767.8	71	21.7	90	sw.			2		8		wsw.	0	0	sm'h	ssw.	foggy.
S. S. Scythia, N. 41° 10′, W. 63° 19′	29.93	760.2	73	22.8	100	s.			2		6		sse.	0	0	mod.	cross	
S. S. Colina, N. 54° 57′, W. 9° 42′ †	29.79	756.7				w.			2		2		w.	0	0	sm'h		clear.
S. S. Canada, N. 44° 13′, W 43° 52′	30.38	771.6	73.4	23		wsw.			3	ck	0	wsw.		0	0	sm'h	wsw.	hazy.
S. S. Arizona, N. 44° 51′, W. 53° 03′	30.03	762.7	48	8.9		var.			1		fg.			0	0	sm'h		dense fog.
S. S. Wyoming, N. 53° 28′, W. 4° 25′	29.87	758.7	52	11.1		s.			4		8		s.	4 h'r	4 h'r	sm'h		threatening.
S. S. Bohemia, N. 54° 00′, E. 8° 20′						ne.			2–4		5		ne.	0	0	sm'h	ne.	fair.
S S. Frisia, N. 42° 23′, W. 48° 19′	30.06	763.5				s.			5		8		sw.	0	0	sm'h	wsw.	cloudy.
S. S. Gellert, N. 40° 30′, W. 69° 20′	29.93	760.2	66	18.9	79	e.			1		5?		ne.	0	0	sm'h	e.	cloudy.?
S. S. Rugia, N. 40° 20′, W. 72° 20′	29.99	761.7	72	22.2		sw.			4		0			0	0	sm'h		clear.
S. S. Mentmore, N. 42° 46′, W. 48° 30′*†	30.14	765.5				ese.			5		10		ne.	0	0	sm'h		cloudy.
S. S. Bulgarian, N. 42° 54′, W. 60° 53′*	30.06	763.5				se.			2		3			2 h'r	2 h'r	light	s.	
S. S. Archimedes, N. 48° 12′, W. 22° 02′	30.04	763.0				wnw.			4		6		w.	shr's	shr's	mod.	wnw.	fine.
S. S. Hevelius, N. 50° 30′, W. 1° 00′ †	30.14	765.5	60	15.6		wsw.			3		7		w.	0	0	sm'h		fair.
S. S. Sirius, N. 50° 46′, W. 6° 34′ *	29.84	757.9				ssw.			4		10		w.	4 h'r	4 h'r	mod.	wsw.	rainy.
S. S. Colorado, N. 25° 26′ W. 85° 08′ †	30.10	764.5	82	27.8		e.			3		2		se.	0	0	small	se.	clear.
S. S. Chalmette, N. 25° 28′, W. 84° 18′ †	30.19	766.8	81	27.2		sse.			2		3		sse.	½ h'r	½ h'r	sm'h		clear.
S. S. New York, N. 34° 40′, W. 76° 00′ *†	29.96	761.0	75	23.9		sw.			4		10		sw.			mod.	sw.	cloudy.
S. S. Alleghany, N. 37° 51′, W. 74° 37′†	29.90	759.4	72	22.2		e.			2		0			0	0	h'vy	s.	clear.
S. S. Denmark, N. 40° 36′, W. 65° 46′ †	30.00	762.0	65	18.3		calm			0		8					sli't	se.	dense fog.
S. S. England, N. 43° 25′, W. 41° 25′	30.31	769.9				sw.			3		8		sw.	0	0	sm'h		cloudy.
S. S. Helvetia, New York, N. Y.	29.99	761.7	73	22.8	90	n.			1		2			0	0			clear.
S. S. Holland, N. 43° 49′ W. 40° 18′	30.21	767.3	67	19.4		wnw.			2		8		wsw.	rain	rain	sm'h	sw.	cloudy.
S. S. The Queen, N. 50° 51′, W. 14° 24′	29.98	761.5	69	20.6	43	w.			5		8		w.	0	0	mod.	w.	hazy.
S. S. Braunschweig, N. 37° 01′ W. 75° 24′	29.94	760.5	75.0	23.9	95	e.			3		9		se.	0	0			cloudy.
S. S. Donau, N. 41° 02′, W. 67° 50′	30.02	762.5				calm			0		5		calm	4 h'r	4 h'r	sm'h	w.	fair.
S. S. Elbe, N. 50° 19′, W 3° 08′	30.08	763.9	55	12.8	100	sw			3–4		10					sm'h	sw.	drizzling.
S. S. Fulda, N. 40° 25′, W. 61° 14′	30.03	762.7	77	25.0	82	s.			5		6		var.	0	0	mod.	sse.	squally.
S. S. Neckar, N. 47° 47′ W. 23° 59′	30.18	766.6	62.0	16.7	86	wnw.			5		6		wnw.	rain	rain	sm'h	wnw.	fair.
S. S. Oder, N. 49° 59′, W. 4° 15′	30.06	763.5	55	12.8		sw.			3–4		10		wsw.	1 h'r	1 h'r	sm'h	sw.	overcast.
S. S. Ohio, N. 42° 59′, W. 40° 26′	30.39	771.9				w.			1–2		2		sw.	0	0	sm'h	wsw.	clear.
S. S. Salier, N. 49° 30′, W. 38° 15′ *	30.23	767.8	59	15.0	76	e.			0–1		5		nw.	0	0	high	nw.	fair.
S. S. Werra, N. 40° 43′, W. 71° 20′	29.98	761.4	61	16.1							5		e.	0	0	sm'h		fair.
S. S. Weser, N. 50° 08′, W. 3° 55′	30.09	764.3	54	12.2		ssw.			4		10		sw.	½ h'r	½ h'r	mod.	sw.	light rain.
S. S. City of Augusta, New York, N.Y†	30.01	762.2				ssw.			4		6		sw.	0	0			fair
S. S. Colon, Aspinwall, Panama †	29.93	760.2	80	26.7	100	calm			0		10			0	0			overcast
S. S. Muriel, N. 19° 40′, W. 63° 50′	30.27	768.8	80	26.7		ene.			3		2		e.	0	0	mod.	e.	clear.
S. S. Orinoco, N. 34° 48′, W. 67° 06′			81	27.2		sw.			5		6		sw.	0	0	mod.	sw.	fair.
S. S. Nederland, N. 40° 38′ W. 72° 15′			63	17.2		nw.			1		5		w.	0	0	sm'h		fair.
S. S. Rhynland, N. 45° 00′, W. 36° 30′	30.36	771.1	62	16.7	100	w.			3		4		wnw.	3 h'r	3 h'r	long	wnw.	fair.
S. S. Pennland, Antwerp, Belgium	30.04	763.0	62	16.7	77	ne.			3		6		n.	5 h'r	5 h'r			squally.
S. S. Switzerland, N. 43° 53′, W. 42° 10′†	30.37	771.4				s.			1		10		s.	0	0	sm'h		threatening.
S. S. Waesland, Jersey City, N. J	29.95	760.7	76	24.4		n.			4		3		wnw.	0	0			fair.
S. S. P. Caland, N. 46° 31′, W. 32° 05′	30.29	769.4	65.5	18.6	94	calm			0		10		ene.			2	se.	foggy.
S. S. Schiedam, N. 40° 35′ W. 70° 49′	29.92	760.0	65	18.3	94	w.			2		7		w.	0	0	mod.		fair
S. S. W. A. Scholten, N. 47° 42′ W. 32° 29′	30.16	766.1	58.2	14.4	76	wsw.			2		7		wsw.	10 h'r	10 h'r	1	w.	fair.
S. S. Belize, N. 17° 46′, W. 76° 44′*	30.01	762.2	84	28.9		e.			6		3		e.	0	0	r'gh	e.	clear.
S. S. Valencia, Puerto Cabello, Venezuela†	30.20	767.1	81.5	27.5	80	calm			0		3		ene.	0	0			clear.
S. S. State of Indiana, N. 40° 48′, W. 68° 35′*†	29.90	759.4	58	14.4		n.			2		2		w.	0	0	sm'h		hazy.
S. S. State of Nevada, N. 49° 50′, W 34° 10′ †	30.29	769.4	61	16.1		n.			2		1		nw.	0	0	long	w.	clear.
S. S. Thingvalla, New York, N. Y †	29.97	761.2	76.5	24.7		wnw.			3		2		wnw.	0	0			clear.
S. S. Toledo, Port Said, Egypt *†	29.98	761.5	89	31.7		w.			4		0			0	0			clear.
S. S. Romano, New York, N. Y †	29.94	760.5	70	21.1					3		2			0	0			clear.
S. S. Oregon, N. 46° 32′, W. 56° 25′	30.13	765.3	54	12.2		e.			1		10		nnw.			mod.	sse.	foggy.
S. S. Daniel Steinmann, Montreal, Canada..†	29.87	758.7	74	23.3		wsw.			2		4		wsw.	0	0			fair.
S. S. Norman, N. 39° 56′, W. 75° 08′						nw.			1		0			0	0			clear.
S. S. Saxon, Boston, Mass †	29.91	759.7				w.			4		10							overcast.
S. S. Adriatic, N. 50° 03′ W. 23° 52′ *†	30.20	767.1	60	15.6		w.			5		7		w.	2 h'r	2 h'r	mod.	w.	fair.
S. S. Britannic, off Queenstown, Ireland†	30.13	765.3	55	12.8		n.			2		8		nw.	2 h'r	2 h'r	sm'h	nw.	cloudy.
S. S Celtic, N. 40° 35′, W. 70° 12′ †	29.96	761.0	64	17.8		calm			0		5		e.	0	0	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Iowa, N. 49° 59′, W. 22° 47′†	30.08	764.0	60	15.6		w.			4		9		w.	0	0	light	w.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.13	765.3	66.5	19.2	68	w.			2		1			0	0			hazy.
Schr. Abbie H. Gheen, Brooklyn, N. Y.†	30.08	764.0	72	22.2		n.			1									clear.
Bg. Abbie Clifford, N. 41° 32′, W. 69° 20′†	29.87	758.7	58	14.4		sw.			3		6		w.			sm.	se.	fair.
Bk. Aquidneck, N. 11° 10′, W. 31° 16′ *†	30.10	764.5				e.			3		0			0	0	light	ese.	clear.
Schr. Anna A. Holton, N. 26° 40′, W. 75° 50′*†	30.12	765.0	85	29.4		s.			4		2		sw.	0	0	sm'h		clear.
Schr. Authur Burton, Boston, Mass.†	29.75	755.6				w.			1		0			0	0			fine.
Bk. Aureola, N. 48° 05′, W. 26° 35†	30.24	768.1	64	17.8		nnw.			3		2		nnw.	1 h'r	1 h'r	sm'h		clear.
Bk. Arda, Sackville, N. B†	29.75	755.6				calm			0		0			3 h'r	3 h'r			clear.
S. S. Burswell, Lundy Island, Eng*†	29.99	761.7	60	15.6		sw.			3		10		sw.	3 h'r	3 h'r	light	sw.	rainy.
Bg. Belle of the Bay, Apalachicola, Fla†	29.99	761.7				w.			5		4		sw.	0	0			threatening.
Bk. Bayonnaise, N. 27° 40′, W. 24° 54′			70.7	21.5		ne.			5		6		ne.			r'gh	ne.	fine.
Schr. C. R. Flint, Tampico Bar, Mexico†	30.02	762.5	81	27.2		s.			1		10			½h'r	½h'r	sm'h	ese.	cloudy.
Bk. Cato, N. 71° 37′, E. 20° 44′*†	30.14	765.5				nnw.			5		4		nnw.			sm'h	nnw.	fair.
S Criterion, off Shinnecock Light, N. Y*†	29.85	758.2				calm			0		4		s.	0	0			clear.
Schr. Clotilde, Tuspan Bar, Mexico*†	29.97	761.2	82	27.8		wsw.			1		2		ese.	0	0	sm'h	ese.	clear.
S. S. D. J. Foley, N. 21° 43′, W. 74° 20′*†	30.10	764.5	82	27.8	83	ese.			3		3		ese.	1 h'r	1 h'r	short	ese.	clear.
Bkt. David A. Preston, N. 31° 00′, W. 80° 00′						wsw.			3		5		w.	3 h'r	3 h'r	mod.	wsw.	
S. E. J. Spicer, N. 40° 59′, W. 68° 45′	30.12	765.0	57	13.9	94	wnw.			2		10		wnw.	0	0	mod.	ssw.	foggy.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′*†	29.76	755.9	65	18.3		s.			3					0	0			overcast.
U. S. Fish Com. S. S. Fish Hawk, Yorktown, Va†	30.09	764.3	82	27.8	91	e.			2		6		e.	0.02	0.5			fair.
S. Festina Lente, N. 47° 49′, W. 61° 15′	30.04	763.0	48	8.9		se.			5		fg.			0	0	mod.	se.	dense fog.
Schr. F. E. Waters, N. 27° 08′, W. 75° 13′*†	30.25	768.3				sw.			1				sw.	0	0	sm'h	sw.	fair.
Bg. George Davis, N. 55° 29′, W. 5° 05′						sw.							ssw.	0	0			cloudy.
Bkt. George N. 18° 30′, W. 63° 40′ *†	30.12	765.0	80	26.7		ene.			3		8		e.	sh'rs	shr's	mod.	ese.	squally.
Bk. Galeon, N. 34° 34′, W. 74° 35′†	29.95	760.7	79	26.1		w.			2		8		nw.	0	0	sm'h	sw.	squally.
Bk. Heinrich & Tonio, N. 40° 37′, W. 56° 40′†	30.07	763.8	73	22.8		se.			1		0			0	0	light	ne.	clear.
S. Hedwig, N. 42° 13′, E. 17° 14′	29.89	759.1	73.0	22.8	89	se.			2		8		nw.	2½h'r	2½h'r	1	se.	clear.
Bk. Hattie G. McFarland, New York, N. Y†	29.91	759.7	70	21.1		n.			2		6		n.	0	0			
Bk. Harriet S. Jackson, N. 38° 56′, W. 71° 00′						se.			1		5		e.	0	0	small	s.	fair.
Schr. Isabel Alberto, St. Augustine, Fla†	29.99	761.7				sw.			1		0			light	light			clear.
Bk. Johanne, N. 46° 29′, W. 57° 45′*†	30.12	765.0	54	12.2		ene.			2		10		var.	0	0	sm'h		foggy.
Schr. John L. Thomas, Old Providence Island, C. A. *†	30.06	763.5	86	30.0		ene.			3		2		e.	0	0			clear.
Bg. John Wesley, N. 11° 22′, W. 25° 55′*†	29.90	759.4	81	27.2		n.			3		6		nnw.	0	0	mod.	nne.	fair.
Schr. Jennie N. Huddell, N. 33° 26′, W. 78° 05′ †	29.94	760.5	82	27.8		wsw.			1		8		nw.	½h'r	½h'r	short	ssw.	fair.
S. J. W. Gildemeister, N. 19° 00′, W. 31° 11′	30.17	766.3	75.2	24	75	e.			4–5		3 k		e.	0	0	4	e.	squally.
Bkt. Kryolith, N. 58° 32′, W. 49° 19′*†	30.20	767.1				n.			1		2			0	0	sm'h		clear.
Bg. L. & W. Armstrong, N. 17° 25′, W. 59° 16′*†	30.24	768.1				ese.			5		2		ese.	0	0	mod.	ese.	fine.
Light House Tender Laurel, Key West, Fla†	30.08	764.0	84	28.9		e.			1		9		ese.	0	0			cloudy.
Bk. Louise Adelaide, N. 37° 00′, W. 74° 50′†	30.01	762.2	74	23.3		e.			1		8		w.	2 h'r	2 h'r	sm'h	se.	cloudy.
S. S. Madrid, N. 37° 00′, W. 62° 13′†	30.13	765.3	76	24.4	86	ssw.			4		4		sw.	sh'rs	sh'rs	sm'h	sw.	fair.
Schr. Minnie A. Bonsall, Rondout, N. Y.†	29.96	761.0	70	21.1		sw.			5					0	0			clear.
Bgt. Myrtle, Mayagues, Porto Rico, W. I*†	30.20	767.1				e.			3				e.	0	0			fair.
Schr. Maggie Abbott, N. 32° 29′, W. 74° 26′†	30.01	762.2				sw.			6		4		sw.	sh'rs	sh'rs	light		fair.
S. S. Mendoza, N. 38° 27′, W. 69° 03′†	30.05	763.3				calm			0		1		sw.	0	0	r'gh	var.	clear.
Bk. National Eagle, N. 39° 17′, W. 25° 00′						s.			2		2		s.	0	0	sm'h		fair.
Bg. O. C. Clary, N. 16° 39′, W. 59° 15′*†	30.15	765.8				se.			4		0					sm'h	sse.	clear.
Bk. Ottawa, N. 56° 03′, E. 16° 38′	29.70	754.4	54	12.2		nnw.			3		fg.			2 h'r	2 h'r	short	ne.	dense fog.
S. Paramita, N. 33° 07′, W. 39° 33′ †	30.44	773.2	78	25.6		ne.			3		1		ne.	0	0	long	nw.	clear.
S. S. Raleigh, N. 29° 50′, W. 73° 30′ †	30.07	763.8	82	27.8		sw.			3		0			0	0	light	sw.	clear.
S. Rudolph, N. 45° 58′, W. 27° 44′			61.0	16.1		w.			3		10		w.	4 h'r	4 h'r	mod.	w.	rainy.
Bg. Rising Sun, N. 15° 45′, W. 62° 10′†	30.10	764.5	86	30.0		e.			4		2		e.	0	0	mod.	e.	
Bk. Rosino, N. 36° 47′, W. 7° 42′			72	22.2		calm			0		0			0	0	sm'h		clear.
Bk. Saga, N. 40° 21′, W. 71° 44′*†	29.93	760.1	67	19.4					1		3		sw.	0	0	long	ese	clear.
Bk. Sunbeam, N. 41° 45′, W. 27° 06′†	30.35	770.9	64	17.8	89	se.			5		0			0	0	sm'h		clear.
Bk. Southern Belle, N. 23° 50′, W. 57° 00′†	30.27	768.8	80	26.7		ese.			3		2		se.	0	0	h'vy	se.	clear.
S. Sovereign of the Seas, N. 16° 07′, W. 34° 27′ *†	30.24	768.1	80	26.7	82	ne.			4		4		ene.	0	0	r'gh	ene.	clear.
Bg. Teneriffe, N. 40° 50′, W. 60° 56′						sse.			7		7		se.	0	0	r'gh		fair.
Bk. Tuck Sing, N. 24° 05′, W. 81° 36′*†	30.03	762.7				e.			3		2		ese.	1 h'r	1 h'r	sm'h		fine.
Schr. Viola Reppard, Gardiner, Me.†	29.93	760.2	70	21.1		calm			0		10			0	0			foggy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†	30.10	764.5	80	26.7		sw.			2		6		ssw.	2 h'r	2 h'r			fair.
Bgt. Sunlight, N. 23° 03′, W. 54° 30′ *†	30.48	774.2				ese.			2		4		e.	0	0	mod.	se.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay†	30.39	771.9	53.2	11.8	85	ese.			2–4		10					2	se.	misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony, Africa	30.37	771.4	63	17.2		ene.			1		0							blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.36	771.1	52	11.1	86	e.			3		10							overcast.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.36	771.1	53	11.7	100	e.	12	5.4			10		calm	0.04	1.0	sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	30.36	771.1	52	11.1	86	ene.			3		10		ene.			sm'h		cloudy.
S. Annie M. Law, S. 34° 25′, E. 16° 25′ *†	30.30	769.6	56	13.3		calm			0		0			0	0	long	wsw.	
S. David Stewart, S. 5° 51′, W. 31° 25′†	29.92	760.0				ese.			5		0			0	0	mod.	se.	clear.
S. Wm. McGilvery, S. 43° 58′, W. 62° 10′ *†	30.28	769.1	49	9.4	78	nw.			4		9		nw.	0	0	sm'h		
S. S. Olbers. Rio de Janeiro, Brazil†	30.32	770.1	82	27.8	67	calm			0					0	0	sm'h		fine.
Bk. Achille F, S. 34° —′, W. 48° 30′†	30.40	772.1	54	12.2	74	e.			3		7		ese.	0	0	long	s.	fair.
Bk. Alpheus Marshall, S. 7° 14′, W. 25° 32′ *†	29.93	760.2				e.			3		4		e.	0	0			fair.
Bk. Ceylon, S. 9° 50′, W. 15° 16′ *†	30.21	767.3	80	26.7	82	se.			4		2		ese.	e	0	mod.	ese.	clear.
Bk. Gray Eagle, S. 22° 36′, W. 32° 17′ *†	30.20	767.1				calm			0		0			0	0	long	e.	clear.
H. P. M. S. Duque de Terceira, S. 10° 28′, E. 13° 24′	30.05	763.2	74.1	23.4	80	w.			1		0			0	0	1		blue sky.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.79	756.7	74	23.3	76	calm			0		3	se.						d. clouds.
H. M. S. Champion, East Coast of Borneo	29.79	756.7	83	28.3	83	w.			1		8							d. clouds.
H. M. S. Espiegle, N. 5° 54′, E. 109° 43′	29.82	757.4	81	27.2	87	ne.			1		6							d. clouds.
H. M. S. Flying Fish, N. 37° 34′, E. 121° 26′	29.80	756.9	74	23.3	90	calm			0		5					1	se.	d. clouds.
H. M. S. Magpie, N. 6° 08′, E. 118° 01′	29.84	757.9	82.5	28.1	83	n.			1		2					2	nnw	d. clouds.
H. M. S. Zephyr, Yokohama, Japan	29.86	758.4	72	22.2	90	calm			0		4							d. clouds.
H.P. M. S. Tamega, Macao, China	29.83	757.7	83.8	28.8	86	calm			0		10			0	0			overcast.
U. S. Naval Hospital, Yokohama, Japan	29.92	760.0	68.5	20.3	95	calm			0		10		W.	1.07	27.2			gloomy.
U. S. S. Adams, Wrangle, Alaska†	29.77	756.1	51	10.6	72	ne.			4		10		ne.			sm'h		cloudy.
U. S. S. Essex, Honolulu, Sandwich Ids	30.05	763.3	77	25.0	90	ne.			4		2		ne.			sm'h		clear.
U. S. S. Hartford, N. 16° 22′, W. 159° 20′*	29.90	759.4	78	25.6	86	ene.			6		8		var.	light	light	mod.	var.	cloudy.
U. S. S. Monocacy, Salee river, Corea	29.80	756.9	74	23.3	81	calm			0		2		calm					misty.
U. S. S. Palos, Hong Kong, China	29.71	754.6	88	31.1	69	calm			0		5		se.					fair.
U. S. S. Richmond, Shanghai, China*	29.67	753.6	81	27.2	96	e.			1		10		e.	0	0			cloudy.
S. S. Coptic, Yokohama, Japan	29.83	757.7	76.0	24.4	73	var.			4		6		ssw.	6 h'r	6 h'r	light	ssw.	squally.
S. S. Oceanic, N. 44° 39′, W. 151° 23′	30.05	763.3	53	11.7	93	wsw.			6		10		sw.			light	w.	overcast.
S. S. Columbia, N. 45° 13′, W. 124° 25′ †	30.05	763.3	54	12.2	80	n.			3		3					light	nnw.	clear.
S. S. Oregon, San Frnncisco, Cal†	29.99	761.7	54	12.2	87	wnw.			8		8		nw.					cloudy.
S. S. Willametta, Seattle, Wash. Ter.†	30.14	765.5	56	13.3	94	wnw.			1		2		wnw.	0	0			clear.
S. S. Ancon, San Francisco, Cal†	29.94	760.5	52	11.1	86	sw.			3		10							overcast.
S. S. City of Chester, Eureuka, Cal†	30.05	763.3	53	11.7	86	calm			0		10							overcast.
S. S. Dakota, Seattle, Wash. Ter†	30.08	764.0	56	13.3	94	nw.			2		8		W.			sm'h		cloudy.
S. S. Queen of the Pacific, San Francisco, Cal.†	29.95	760.7	50	10.0		sw.			3		5			0	0			fair.
S. S. City of New York, N. 1° 45′, W. 164° 41′ †	29.85	758.2	84	28.9	79	ese.			5		2		ese.	0	0	mod.	e.	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. City of Pekin, N. 46° 45′, W. 157° 58′ †	29.81	757.2	50	10.0	100	wsw.			6		10		wnw.	0	0	r'gh	wsw.	misty.
S. S. City of Rio de Janeiro, Hong Kong, China †	29.93	760.2	84	28.9	79	s.			1		2		se.	0	0	sm'h		clear.
S. S. Colima, Panama, Panama †	29.94	760.5	78	25.6	91	wnw.			2		3		wnw.	0	0			clear.
S. S. San Blas, N. 16° 57′, W. 100° 16′			83	28.3		calm			0		2		nw.	0	0	r'gh	s.	clear.
S. S. San José, N. 21° 28′, W. 105° 18′ †	29.96	761.0	84	28.9		ne.			2		8 ks		e.	0	0	long	w.	cloudy.
S. S. Benledi, N. 32° 30′, E. 129° 30′ *	29.77	756.1	73	22.8	90	ne.			2-3		8			5 h'r	5 h'r	sm'h		drizzling.
S. S. Radnorshire, Shanghai, China *†	29.95	760.7				se.					3			5 h'r	5 h'r			clear.
S. Sacramento, Zebu, Philippine Ids*†	29.95	760.7	83	28.3	79	ne.			1		7		ne.	4 h'r	4 h'r	sm'h		fair.
S. St. David, N. 24° 50′ E. 129° 35′*†	29.92	760.0	85.0	29.4	87	sse.			2		2		sse.	0	0			clear.
Bk. Xenia, N. 29° 44′, E. 123° 24′			80	26.7		ssw.			6		0			0	0	mod.	s.	clear.
H. M. S. Sappho, N. 30° 14′, W. 116° 02′	29.97	761.2	61	16.1	94	n.			2		6	nnw.				3	nnw.	misty.
U. S. S. Ranger, N. 13° 28′, W. 89° 20′	29.92	760.0	80	26.7	77	se.			2		5		calm	0	0	sm'h		fair.
S. Henry Failing, Wilmington, Cal †	29.75	755.6	65	18.3		e.			2		fg.			0	0	sm'h	se.	
S. Grecian, Yokohama, Japan †	29.90	759.4	72	22.2	85	calm			0		0			12 h'r	12 h'r			hazy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			62	16.7	72	nw.			2		5	nw.						d clouds.
H. M. S. Kingfisher, S. 40° 33′, W. 98° 25′	29.36	745.7	50	10.0		sse.			8		7					8	ssw.	d. clouds
H. M. S. Nelson, Souva, Feejee Ids, Oceania	29.70	754.4	76	24.4	95	nne.			2-4		10							squally.
U. S. S. Iroquois, Valparaiso, Chili	30.24	768.1	50	10.0	86	sse.			1		2							clear.
U. S. S. Lackawanna, Callao, Peru*	30.02	762.5	62	16.7	88	sse.			4		10		se.					cloudy.
U. S. S. Onward. Callao Peru†	30.14	765.5	62	16.7	83	se.			3		10		se.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.98	761.5	63	17.2	89	se.	10	4.5			10			0	0			misty.
U. S. S. Wachusetts, Noukahiva, Marquesas Ids	29.95	760.7	78	25.6	82	w			1		10		sw.			sm'h		cloudy.
S. S. Australia, Sydney, N. S. W.	29.84	757.9	53	11.7	93	w.			4		4		w.	0	0			fair.
H. M. S. Lark, S. 7° 09′, E. 155° 47′	29.78	756.4	81.3	27.4	85	se.			4		9					1	se.	squally.
S. S. City of Sydney, S. 23° 46′, W. 175° 25′ *†	30.15	765.8	72	22.2	76	ene.			6	8 c	0	ene.				r'gh	ene.	cloudy.
S. Parker M. Whitmore, S. 25° 00′, W. 105° 40′ *†	30.25	768.3	71	21.7		nw.			5		3		nnw.	0	0	long	ssw.	clear.
S. Storm King, S. 15° 25′, W. 101° 04′ *†	30.17	766.3				ese.			5		1		se.	0	0	sm'h	se.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.02	762.5	80	26.7	87	se.			4		2	sse.				3	sse.	d. clouds.
U. S.S. Enterprise, Myaultrand, Madagascar, Africa*†	30.13	765.3	82	27.8	75	s.			0-1		2		calm			sm'h		clear.
U. S. S. Juniata, N. 6° 00′, E. 80° 12′	29.85	758.2	81	27.2	100	sw.			5		8		sw.	sli't	sli't	sm'h		cloudy.
S. S. Malabar, Point de Galle, Ceylon, India	29.78	756.4				sw.			4		5		sw.	0	0	hv'y	sw.	fair.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 23, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.11	764.8	75.9	24.4	85	s.			1		3			0	0	pretty fair	Malaterre.
Algiers			30.16	766.0	73.0	22.8	65	se.			4		0			0	0	clear	Thève.
La Galle			30.06	763.4															Fonfrède.
Tunis			30.06	763.6															Jacques.
Saida			30.09	764.2															Pérès.
Tebessa			30.06	763.4	77.7	25.4	39	n.			2		0			0	0	clear	St. Martin.
Geriville					92.3	33.5	4	sw.			4		0			inap.	inap.	clear	Forfert.
Laghouat			30.00	761.9	93.2	34.0	11	se.			1		0			0	0	clear	Abraham.
Biskra			30.00	761.9	93.2	34.0	27	sse.			1		2			0	0	fair	Gouzon.
Australian.																			
Adelaide, South Australia			29.98	761.5	55.2	12.9	68	w.	17	7.6			10 s			0.123	3.1	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.49	749.0	29.58	751.3	47.8	8.8	92	nw.	19	8.5			10			0.06	1.5	thund'rst'm	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.40	746.7	29.93	760.2	69.8	21.0	37	w.			3		6			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.95	735.4	29.71	754.7	52.5	11.4	91		18.6	8.3			10			0.335	8.5	raining	Dr. Wierzbiski
Eperies	28.82	731.9	29.67	753.7	59.0	15.0	81	calm			0		10 n			0.118	3.0		Julius Mikolik.
Gratz	28.72	729.6	29.94	760.4	67.1	19.5	66	nw.			7		3			0.008	0.2		Andreas Rospini.
Hermannstadt	28.28	718.2	29.64	752.9	69.4	20.8	46	wnw.			5		10			0.075	1.9	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.5	30.05	763.2	58.6	14.8	81	wsw.			3		10			0.059	1.5	gloomy	The Staff.
Lemberg	28.56	725.5	29.53	750.0	57.0	13.9	87	w.			5		10			0.709	18.0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.89	759.1	29.99	761.8	72.1	22.3	65	wnw.			4		1			0.228	5.8		I. R. Hydrographic Office.
Szathmar	29.19	741.5	29.64	752.8	70.3	21.3	79	w.			4		7			0.315	8.0		Joseph Midlinszky, S. J.
Szegedin	29.48	748.8	29.75	755.6	69.1	20.6	83	nw.			4		6			0	0		Karl Stancel.
Trieste	29.90	759.5	30.00	762.0	68.5	20.3	60	w.			1		1			0	0		Royal Academy.
Vienna	29.21	741.9	29.90	759.5	67.3	19.6	47	nw.			4		9			0.039	1.0	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.79	756.7	29.88	758.9	62.4	16.9	46	s.	21	9.4			4			0.010	0.3	blue sky	W. Boswell.
Armagh, Observatory	29.60	751.8	29.83	757.7	60.0	15.6	60	s.	16	7.2			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.91	759.7	67.8	19.9	49	sse.	13	5.8			4					d. clouds	John Hartnup.
Bolton, Sharples	29.40	746.7	29.93	760.2	65.5	18.6	58	ese.	6	2.7			1					blue sky	Thomas Mackereth.
Bradford, Yorkshire	29.54	750.3	29.93	760.2	65.0	18.3	51	nw.			1		4			0	0	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	78.0	25.6	91	ne.			2		8					overcast	Corpl. W. I. Cull, A. H. C
Cardington	29.91	759.7	30.01	762.2	70.0	21.1	55	sw.			0.4		2					blue sky	John McLaren.
Chatham, School M. E.	29.90	759.4	30.03	762.7	67.0	19.4	60	sw.			1		7			blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.75	755.6	29.98	761.5	60.1	15.6	94	ssw.			4		10					misty	The Staff.
Fort Napier, Natal	28.05	712.5	30.27	768.8	65.0	18.3	58											blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.69	754.1	29.82	757.4	84.0	28.9	79	n.			1		9					d. clouds	J. W. Smith.
Galway, Queen's College	29.62	752.3	29.65	753.1	58	14.4	76	sw.			2		7			0.02	0.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.99	761.7	30.05	763.3	71.2	21.8	84	e.			3		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.67	753.6	29.87	758.7	63.0	17.2	50	s.			3		8					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.85	758.2	30.02	762.5	68.9	20.5	57	ssw.			2		7					d. clouds	The Staff.
Guernsey	29.76	755.9	30.06	763.5	62.0	16.7	89	sw.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.99	761 7	30.03	762.7	65.3	18.5	50	sw.	9	4.0			4					d. clouds	The Staff.
Leicester, Museum	29.72	754.9	29.97	761.2	66.0	18.9	61	sw.			1		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762.5	73.8	23.2	93	nw.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.11	764.8	30.16	766.1	84.0	28.9	81	sw.			1		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.46	748.3	29.98	761.5	65.7	18.7	60	s.			4		3					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.78	756.4	30.01	762.2	63.9	17.7	61	s.			2		4					blue sky	The Staff.
Plymouth	29.92	760.0	29.99	761.7	58.8	14.9	95	s.			2		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.74	755.4	29.84	757.9	58.2	14.6	64						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.48	748.8	29.54	750.3	76.4	24.7	60	ne			2		7					d. clouds	W. H. Lyne.
Sheffield	29.69	754.1	29.96	761.0	69.9	21.1	73	sw.			1		3			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.88	758.9	29.91	759.7	65.0	18.3	62	wsw.			2		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	29.95	760.7	30.04	763.0	65	18.3	89	sw.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.76	755 9	29.79	756.7	57.0	13.9	82	s.	32	14.3			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.64	752.8	30.03	762.7	70.7	21.5	64	wnw.	24.9	11.1						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.					60.0	15.6		calm	0	0			10 n			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.86	758.4	29.90	759.4	61	16.1	95	s.	2	0.9			10n		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.88	758.9	29.94	760.5	62	16.7	97	n.	2	0.9			10 s		n.	0.66	16.8	cloudy	G. A. Blair.
Cornwall, Ontario	29.77	756.1	29.96	761.0	63.7	17.6	83	sw.			1		0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.92	760.0	29.96	761.0	61.0	16.1		w.			1	0	5 ks			0	0	d. clouds	H. A. Johnson.
Father Point, Quebec*	29.96	761.0	29.98	761.5	48	8.9	83	nw.	8	3.6			fg			0	0	foggy	J. McWilliams.
Fort Garry, Manitoba*	29.16	740.7	30.00	762.0	45	7.2	93	n.	14	6.3		0	5 ks		sw.	0	0	fair	James Stewart.
Fredericton, N. B.	29.89	759.2	29.95	760.7	65.0	18.3	86	e	1	0.4			10 s			0.150	3.8	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	29.00	736.6	30.08	764.0	60.0	15.6	88	calm	0	0		4 c	0	w.		0	0	fine	Jas. Grant.
Halifax, N. S*	29.79	756.7	29.92	760.0	57	13.9	100	e.	1	0.4			fg			0.020	0.5	foggy	A. Allison.
Hamilton, Ontario	29.62	752.3	30.00	762.0	62.8	17.1	97	sw.			1	2 c	0	w.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.69	754.1	30.02	762.5	61	16.1	84	sw.	3	1.3		5 ck	0	calm		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.94	760.5	29.98	761.5	51.5	10.8	89	s.			1		10 n			0	0	overcast	C. H. Rigby.
London, Ontario	29.18	741.2	30.06	763.5	62.2	16.8	88	calm				2 cs	4 ks			0	0	d. clouds	E. B. Reed.
Montreal, Quebec*	29.78	756.4	29.97	761.2	70	21.1	68	calm	0	0		0	0			0.11	2.8	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.74	755.4	29.97	761.2	64.7	18.2	84	nw.			3	4 cs	0			0	0	fair	A. McGill, M. A.
Parry Sound, Ontario*	29.37	746.0	30.04	763.0	64	17.8	78	s.	3	1.3		2 cs	0	w.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.31	744.5	30.02	762.5	68.7	20.4	60	w.			1	2 c	0	w.		0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.38	746.2	30.05	763.3	62	16.7	94	calm	0	0		2 c	0	w.		0	0	fair	H Morgan.
Port Stanley, Ontario	29.42	747.3	30.05	763.3	63	17.2	93	e.	6	2.7		5 ck	0	w.		0	0	fair	M. Payne.
Quebec, Quebec*	29.64	752.8	29.99	761.7	57	13.9	100	n.	3	1.3			fg.			0.01	0.3	foggy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.56	750.8	30.01	762.2	62	16.7	78	calm	0	0		8 k	0	nw.		0	0	fair	W. H. McIntyre.
St. Andrews, N. B.	29.86	758.4	29.91	759.7	53	11.7	100	se.	4	1.8			fg.			0	0	dense fog	
St. John, N. B	29.76	755.9	29.93	760.2	54.0	12.2	93	sw.	1	0.4			fg			0	0	foggy	G. Murdock, C. E.
Saint John's, N. F.	29.94	760.5	30.19	766.8	55	12.8	93	se.			1		10 n			0.05	1.3	rain & fog	J. Higgins.
St. Pierre, N. F.			30.04	763.0	54.7	12.6		calm			0					0	0		The Commandant.
Saugeen, Ontario*	29.32	744.7	30.01	762.2	64	17.8	78	nw.	4	1.8		2 cs	0			0	0	clear	
Stratford, Ontario	28.82	732.0	30.06	763.5	61.6	16.4	83	calm	0	0		3 c;cs				0	0	blue sky	C. J. Macgregor, M. A.
Sydney, C. B*	29.94	760.5	30.00	762.0	54	12.2	100	calm	0	0			10 n			0.35	8.9	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.69	754.1	30.06	763.5	67	19.4	81	calm	0	0		2 c	2 ks	nw.	nw.	0	0	fair	Magnetic Observatory.
Windsor, N. S	29.80	756.9	29.90	759.4	60.0	15.6	94	e.	1	0.4			10 n			0	0	overcast	Prof. W. R. Butler, M.A.
Woodstock, Ontario	29.02	737.1	30.01	762.2	69.5	20.8	70	se.	4	1.8		6 c	0			0	0	d. clouds	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.89	759.2	29.96	761.0	55	12.8	96	nw.	2	0.9			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	30.32	770.1	30.35	770.9	66.0	18.9	73	w.	7.7	3.4		0	0			0	0	clear	John Duthie
Springbok Fontein	28.15	715.0			69	20.6	19	n.											J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.63	752.6	29.74	755.4	85.3	29.6	40	se.			1		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.73	755.1	29.75	755.7	80.6	27.0	87	e.	2.2	1.0		6 ck	0			0.394	10.0		M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.91	759.7	29.96	760.9	65.7	18.7	54	n.	16	7			6						Oversergent Fischer.
Fanoe	30.05	763.3	30.07	763.8	58.3	14.6	70	w.			4		3						Overloerer Lauridsen.
Godthaab, Greenland	29.83	757.7	29.87	758.8	43.7	6.5	88	s.			6–7		10					raining	S. Kleinschmidt.
Jacobshavn, Greenland	29.69	754.1	29.74	755.3	40.6	4.8		w.			2		7						
Stykkisholm, Iceland	29.80	756.8	29.84	757.9	45.5	7.5	91	nw.			2		8						A. O. Thorlacius.
Thorshavn	29.73	755.1	29.75	755.7	55.2	12.9	88	se.	9	4			5						Overloerer Bergh.
Vestervig	29.97	761.2	30.06	763.5	57.7	14.3	76	w.			2		6						Loerer Oesterbol.
Egyptian.																			
Cairo	29.72	755.0			95.4	35.2		n.	5.6	2.5		0	0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.57	751.0	30.21	767.2	70.9	21.6	74	ne.			1		cn			0	0		M. Labroue, Director.
Alençon, Normal School	29.60	751.9	30.15	765.9	62.6	17	78	s.			1		n		n.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	30.01	762.2	30.09	764.2	75.9	24.4	44	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.60	751.9	30.14	765.6	69.8	21.0	45	wnw.			1	0	8 kn		w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.87	758.7	30.13	765.3	69.3	20.7	62	ssw.			1		10		wsw.	0.016	0.4	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.24	742.7	30.12	765.1	67.1	19.5	61	ssw.			1	0	0			0.012	0.3	clear	M. Gobin, Director.
Bordeaux, Observatory	29.89	759.2	30.15	765.7	69.1	20.6	51	se.			1		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.64	752.8	30.17	766.3	69.8	21	65	ssw.			1		k		ssw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.85	758.1	30.09	764.3	60.8	16.0	91	sw.			3		10		sw.	0.669	17.0	hazy	M. de Kermarès, Dir.
Caen, Normal School	29.98	761.6	30.06	763.4	66.2	19	77	s.			1		5		s.	0.209	5.3	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.80	757.0	30.12	765.0	67.6	19.8	74	ssw.			2		2		w.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.61	752.1	30.11	764.8	70.9	21.6	49	nw.			1		8		ne.	0	0	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.80	731.5	30.12	765.0	69.8	21.0	40	ne.			1	c;ck	1 k			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.33	745.0	30.20	767.0	70.7	21.5	45	calm			0		1			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.30	744.3	30.14	765.6	66.9	19.4	51	w.			1		kn	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.58	700.4	30.04	762.9	69.8	21	49	calm			0	0	0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.92	734.6	30.00	762.1	77.4	25.2	23	w.			2		1		s.	0	0		M. Kina, Director.
Grenoble. Normal School	29.37	746.1	30.13	765.4	68.4	20.2	57	e.			1	2 ck	0	e.		0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.44	722.4	30.17	766.2	67.5	19.7	55	sw.			1		10 kn		nw.	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School	29.86	758.5	30.13	765.3	66.2	19	74	sw.					k		sw.	0.020	0.5		M. Ollitrault, Director.
Lescar, Normal School	29.53	750.0	30.08	763.9	72.0	22.2	50	e.			1	2 cs	0			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.04	762.9	30.14	765.5	63.3	17.4	88	ssw.			2		10		sw.	0.004	0.1	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.12	739.6	30.16	766.0	67.3	19.6	49	n.			1		1		n.	0	0	clear	M. André, Director.
Mans, Normal School	29.84	758.0	30.15	765.7	62.4	16.9	81	sw.			1		8		sw.	0.004	0.1	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.78	756.4	30.04	763.1	76.1	24.5	36	wsw.			1		1		w.	0	0		M. Stephan, Director.
Montlouis	25.00	635.1	29.85	758.1	57.2	14.0	57	e.	9.4	4.2			6	se.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.95	760.7	30.07	763.8	78.8	26	55	nne.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.37	746.1	30.14	765.5	65.8	18.8	72	wsw.			1		kn			0.012	0.3		M. Hasse, Director.
Nantes, Observatory	30.05	763.3	30.17	766.4	68.5	20.3	58	sw.			0–1	0	9 kn; n		sw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.01	762.3	30.12	765.1	75.7	24.3	44	e.	5.6	2.5			8		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.41	543.8			46.8	8.2		w.			1		1		w.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.07	738.4	30.10	764.6	71.2	21.8	42	n.			1	1 c	0			0	0	clear	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.32	643.2			48.4	9.1	88	ene.			1		2			0.008	0.2	¼ covered	M. Alluard.
Rochefort, Naval Obs'y	30.12	765.0	30.15	765.8	74.1	23.4	55	calm			0		2			0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.92	760.0	30.13	765.3	76.6	24.8	61	sw.			1		2		e.	0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	28.03	712.0	30.13	765.3	66.7	19.3		nw.			1	1 ck	0	ne.		0	0	clear	M. Seger, Director.
Rouen, Normal School	29.96	760.9	30.00	762.1	62.2	16.8	92	ssw.			1		10	sw.		0.114	2.9	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.99	761.7	30.15	765.8	65.5	18.7	66	sw.			1		10		wsw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.48	748.8	30.21	767.3	70.9	21.6	61	ne.			1		10	w.		0	0	covered	M. Baillaud, Director.
Tours	29.98	761.5	30.16	766.0	69.8	21.0	53	sse.			1		2	ssw.	s.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.65	753.0	30.14	765.5	64.8	18.2	72	sw.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.99	761.8	30.14	765.6	71.1	21.7	62	ne.	5.8	2.6		3 ck	0	sw?		0	0		M. Cartier, Director.
German.																			
Ansbach	28.68	728.5	30.10	764.6	63.7	17.6	59	w.			4		3	w.		0.224	5.7		Prof. Jnedt.
Bamberg	29.21	742.0	30.06	763.5	66.2	19.0	52	w.			3	0	6 k; s		w.	0	0		Prof. Dr. Hoh.
Berlin	29.82	757.4	29.96	761.0	57.9	14.4	74	w.			6		10					light rain	Dr. Sensch.
Breslau	29.31	744.4	29.84	757.8	50.5	10.3	97	wnw.			6		10			0.075	1.9	raining	Royal University Obs'y.
Carlsruhe	29.70	754.3	30.15	765.8	68.7	20.4	45	sw.			1		9	sw.		0	0		Albert Senz.
Cassel	29.37	746.1	30.09	764.2	68.4	20.2	54	w.			4		8	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.09	764.2	73.4	23.0	51	wnw.			1		7			0.114	2.9		Physical Society.
Friedrichshafen	28.76	730.5	30.15	765.7	66.7	19.3	66	sw.			3		4	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.97	761.2	30.06	763.5	64.9	18.3	70	nw.			4		8	sse.		0	0		E. Preller.
Kiel	30.02	762.5	30.04	762.9	63.1	17.3	60	nw.			4		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.61	752.0	30.02	762.4	67.6	19.9	35	wnw.			5		7			0	0	stormy	H. Leppig, Asst.
Magdeburg	29.82	757.5	30.01	762.2	66.7	19.3	37	wnw.			4		8	se.		0	0		Weather Observatory
Memel	29.65	753.0	29.69	754.2	56.5	13.6	65	ne.			4	0	9 ks						Iasermann.
Munich	28.32	719.3	30.19	766.9	62.4	16.9	58	w.			4		7	sw.		0.236	6.0		Central Station.
Neufahrwasser	29.72	754.8	29.73	755.2	56.8	13.8	80	n.			4		10			0.051	1.3		A. Lothes.
Neustadt, Palatinate	29.57	751.1	30.10	764.5	66.2	19.0	54	w.			2		10	w.		0	0		Dicknether.
Stuttgart	29.17	741.0	30.04	763.1	68.9	20.5	48	nw.			2		5	n.		0	0		Prof. Dr. Schoder.
Wustrow	29.98	761.4	30.00	762.1	57.6	14.2	88	nw.			5		10			0.051	1.3		Profs. Brandes & Reimer.
Greek.																			
Athens	29.28	743.8	29.65	753.1	83.5	28.6		w.			5.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.51	749.6	29.56	750.9	89.9	32.2	65	wsw.	32.0	14.3			3		wsw.	0	0	d. clouds	
Deesa	29.06	738.2	29.52	749.7	99.4	37.4	32	sw.	5.0	2.2			9	sw.	sw.	0	0	d. clouds	
Bombay	29.63	752.5	29.66	753.4	83.7	28.7	82	ssw.	11.0	4.9			10	sw.	wsw.	0.06	1.5	overcast	
Poona, Yarrowda	27.82	706.7	29.66	753.4	80.3	26.8	66	w.	20.0	8.9			9			0	0	d. clouds	
Trichinopoly	29.49	749.0	29.76	755.9	88.0	31.1	49	wsw.	1.0	0.4			10	ne.	ne.	0.78	19.8	overcast	
Belgaum	27.17	690.2	29.72	754.9	71.6	22.0	86	wsw.	12.0	5.4			10		w.	0.06	1.5	d. clouds	
Lahore	28.66	727.8	29.34	745.4	110.3	43.5	18	w.	4.0	1.8			0			0	0	blue sky	
Roorkee	28.52	724.4	29.38	746.2	96.3	35.7	39	e.	8.0	3.6			0			0	0		
Agra	28.86	733.0	29.38	746.3	108.9	42.7	20	nw.	8.0	3.6			2		w.	0	0	d. clouds	
Nagpur	28.54	725.0	29.58	751.3	78.2	25.7	78	nnw.	8.0	3.6			10		nw.	0.10	2.5	thund'r st'm	
Jubbulpore	28.19	715.9	29.49	749.1	94.2	34.6	50	calm	0	0			9		s.	0	0	overcast	
Lucknow	29.07	738.4	29.43	747.5	101.4	38.6	46	ene.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.10	739.3	29.40	746.8	102.3	39.1	42	calm	0	0			1			0	0	d. clouds	
Patna	29.38	746.1	29.56	750.8	84.2	29.0	84	se.	4.6	2.1			8	se.	se.	0.97	24.6	d. clouds	
Hazaribagh	27.58	700.5	29.57	751.0	79.0	26.1	84	s.	8.6	3.8			10			0.03	0.8	thund'r st'm	
Cuttack	29.51	749.6	29.59	751.6	84.8	29.3	79	w.	3.0	1.3			0			0.22	5.6	blue sky	
Calcutta, Alipore	29.57	751.0	29.59	751.6	84.8	29.3	79	sse.	0.5	0.2			8		sw.	0	0	d. clouds	
Dhubri	29.50	749.2	29.61	752.2	83.0	28.3	81	calm	1.2	0.5			0			0.05	1.3	blue sky	
Chittagong	29.49	749.1	29.58	751.4	81.7	27.6	84	s.	4.8	2.2			6			0	0	d. clouds	
Sibsagar	29.30	744.3	29.64	752.7	86.2	30.1	77	sw.	2.0	0.9			6	w.	w.	0.26	6.6	d. clouds	
Jeypore	28.06	712.8	29.43	747.6	102.0	38.9	31	nw.	6.8	3.0			7		nw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.03	762.6	30.05	763.2	83.7	28.7	47	sse.	9.6	4.3			2	wsw.		0	0	d. clouds	
Bellary	28.19	716.0			89.2	31.8	45	w.	16	7.2		4 ck	6			0	0	gloomy	
ITALIAN.																			
Udine	29.60	751.8	30.00	761.9	71.2	21.8	54	s.	1.8	0.8			2			0.913	23.2		Prof. Giovanni Clodig.
Milan	29.51	749.6	30.01	762.3	75.2	24.0	17	nw.	5.6	2.5			0			0	0		Prof. G. V. Schiapparelli.
Padua	29.87	758.6	29.97	761.3	74.1	23.4	46	sw.	5.6	2.5			1	s.		0.114	2.9		Prof. Dott. Lorenzoni.
Moncalieri	29.10	739.1	29.98	761.4	71.2	21.8	33	nw.	0	0			0			0	0		Prof. F. F. Denza.
Genoa	29.86	758.4	30.04	763.1	71.6	22.0	54	s.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.15	715.0	30.00	762.1	69.1	20.6	28	nw.			4		0			0	0		Prof. D. C. Bruno.
Pesaro	29.95	760.6	29.99	761.8	67.3	19.6	53	ne.	10.5	4.7			1			0	0		Prof. Luigi Guidi.
Florence	29.76	756.0	30.02	762.4	72.0	22.2	39	nw.			2		0			0.205	5.2		Prof. Costantino Pittei.
Leghorn	29.91	759.7	29.99	761.8	71.1	21.7	58	w.	1.8	0.8			1			0	0		Prof. P. Monte.
Rome	29.80	756.9	29.67	761.3	75.9	24.4	31	n.	12.5	5.6			1			0	0		Prof. P. Tacchini.
Lecce	29.62	752.3	29.86	758.5	72.7	22.6	44	nw.	23.7	10.6			2	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.04	737.5	29.89	759.1	79.2	26.2	65	wnw.	3.1	1.4			4	nw.		0	0		Prof. D. Conti.
Cagliari	29.85	758.1	30.04	762.9	76.1	24.5	42	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.78	756.4	30.02	762.6	72.1	22.3	48	nw.	15.0	6.7			2	nw.		0	0		Prof. G. Cacciatore.
Syracuse	29.85	758.1	29.89	759.2	78.4	25.8	43	ne.	4.3	1.9			0			0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.45	747.9	29.96	760.9	73.4	23.0	57	wsw.	13.0	5.8			4	wnw.		0	0		Prof. F. Brioschi.
Stelvio	22.28	566.0			41.0	5.0	59	ne.			2		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.31	566.7			41.2	5.1	59	n.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.83	757.6	29.86	758.5	63.0	17.2	94	calm			0	5 ck	0	nw.		0	0	fair	H. Hattori.
Awomori	29.76	755.9	29.80	756.9	65.0	18.3	69	w.	8.5	3.8			10 ks		w.	0	0	overcast	K. Ogawa.
Hamamatsu	29.88	758.9	29.91	759.6	69.3	20.7	78	calm			0	6 cs	2 s	w.		0	0	cloudy	Y. Sekigawa.
Kanazawa	29.80	757.0	29.90	759.5	70.3	21.3	81	wsw.	5.8	2.6			10 ck			0	0	cloudy	S. Endo.
Kagoshima	29.92	759.9	29.93	760.2	73.5	23.1	87	ne.			2		10 n			0.603	15.3	light rain	G. Miyanohaza.
Kioto	29.75	755.7	29.93	760.1	71.1	21.7	81	sse.	2.7	1.2			10 s			0	0	cloudy	M. Tojima.
Kochi	29.93	760.2	29.95	760.7	70.9	21.6	90	sw.	1.9	0.8			10 s			0.07	1.9	overcast	K. Kusunose.
Miasaka	29.93	760.1	29.95	760.8	69.1	20.6	99	wnw.			1		10 n		ne.	2.173	55.2	raining	K. Masusaki.
Miyako	29.71	754.6	29.82	757.4	58.7	14.8	96	w.	3.5	1.5		1 cs	0			0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.71	754.6	29.91	759.7	69.8	21.0	99	ne.	5.4	2.4			10 n			1.870	47.5	raining	S. Takehayashi.
Niigata	29.84	757.9	29.88	758.9	66.7	19.3	79	ne.	1.2	0.5		0	1 s		w.	0	0	clear	M. Morita.
Nobira	29.81	757.1	29.82	757.5	66.9	19.4	92	sse.	1.6	0.7		0	0			0	0	clear	H. Midzushina.
Numazu	29.87	758.7	29.91	759.7	68.7	20.4	84	wnw.			1	10 cs	0			0	0	cloudy	R. Kaneda.
Osaka	29.91	759.7	29.93	760.1	71.0	21.7	83	w.	5.1	2.2			10 s			0	0	cloudy	H. Omura.
Sakai	29.89	759.2	29.90	759.4	69.9	21.1	93	calm			0		10 s		nw.	0	0	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	29.79	756.6	29.86	758.4	69.3	20.7	77	ssw.	7.7	3.4		3ck;cs	0	w.		0	0	fair	The Staff.
Wakayama	29.87	758.8	29.93	760.1	70.3	21.3	81	calm	0	0			10 s			0	0	cloudy	K. Sakai.
Shimonoseki	29.77	756.2	29.92	759.9	69.6	20.9	90	ene.			2		10 n			0.362	9.2	raining	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.81	757.2	30.00	762.0	75.0	23.9	68	wsw.	11.5	5.1		0	2k;ks			0	0	clear	The Staff.
MEXICAN.																			
Guanajuato	23.73	602.7	29.95	760.7	60.1	15.6	78	ne.	inap.	inap.		4cs;ks	0	e.		0	0	fair	Prof. Vicente Fernandez
Leon	24.35	618.5	30.01	762.2	59.4	15.2	84	sw.	0.9	0.4		7 c	0	n.		inap.	inap.	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	761.0	80.0	26.7	84	w.	1.6	0.8			10 n		ne.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					81	27.2	82	s.	7.4	3.4		0	3 s		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.10	764.4	30.10	764.4	63.0	17.2		w.			3					0	0		
Groningen	30.02	762.5	30.08	763.9	61.5	16.4		wsw.			1					0	0		
Helder	30.07	763.7	30.07	763.7	61.2	16.2		sw.			2					0	0		
Hellevoetsluis	30.08	764.0	30.08	764.0	67.6	19.8	69	sw.			1					0	0		
Utrecht	30.05	763.2	30.10	764.4	69.4	20.8	68	sw.			3		8			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.8			80.8	27.1	78	ne.	0	0			4			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.93	760.2	29.99	761.8	61.9	16.6	77	ssw.	4	2			9			0.031	0.8		
Brono	29.95	760.6	29.98	761.6	77.0	25.0	32	se.			2		1			0	0		
Christiania	29.84	757.9	29.98	761.5	71.1	21.7	31	nne.	2	1			4			0	0		
Gjæsvær	30.25	768.4	30.28	769.0	49.5	9.7		ne.			2		0						
Lodingen	30.00	761.9	30.04	763.1	66.9	19.4	36	calm			0		1			0	0		
PORTUGUESE.																			
Angra, Azores	30.02	762.4	30.17	766.4	66.0	18.9	94	se.	3.1	1.4			6			0.217	5.5		Dr. J. A. Sampaio.
Campo Major	29.07	738.4	30.02	762.5	84.2	29.0	29	s.	3.8	1.7			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.14	765.6	30.23	767.8	69.3	20.7	51	sw.	2.5	1.1			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.78	756.3	30.11	764.7	70.7	21.5	50	n.	8.1	3.6			0			0	0		The Staff.
Ponta Delgada, Azores	30.13	765.2	30.20	767.0	70.2	21.2	86	se.	2.5	1.1			10			0.283	7.2		
Saint Paul de Loando	29.79	756.7	29.99	761.8	74.3	23.5	90	nnw.			2		0			0	0		
San Salvador	28.12	714.2	29.95	760.8	77.7	25.4	51	e.			2		0			0	0		
Serra da Estrella	25.43	645.9	30.01	762.2	65.3	18.5	32	ese.	14.3	6.4			2			0	0		
RUSSIAN.																			
Akmolinski	28.64	727.4	29.62	752.4	91.9	33.3	24	s.	13	6		1 c	0			0	0		Major K. Lasarew.
Archangel	30.09	764.3	30.11	764.8	56.5	13.6	42	nnw.	13	6		0	5 ks			0	0		Capt. Sseliwerstow
Ashurada	29.70	756.7	29.70	754.3	84.6	29.2	67	wnw.	11	5		0	7 k			0.083	2.1		
Astrakhan	29.58	751.3	29.50	749.2	68.9	20.5	75	wsw.	20	9			10 n			0.004	0.1		Capt. Wisganow.
Baku	29.74	755.3	29.69	754.1	74.3	23.5	60	nnw.	22	10		0	0			0	0		
Barnaul	29.38	746.2	29.85	758.1	79.0	26.1	40	sse.	2	1			4			0	0	light clouds	Meteorological Obs'y
Bielosersk	29.47	748.6	29.94	760.5	49.6	9.8	91	nne.	4	2			10 n			0.358	9.1	raining	
Dorpat	29.54	750.2	29.78	756.4	51.3	10.7	93	ene.	13	6			10 n			0.244	6.2	raining	Observatory.
Ekaterinburg	28.71	729.2	29.63	752.6	66.2	19.0	84	s.	9	4			10			0.189	4.8	thnd'r storm	Meteorological Obs'y
Elissawetgrad	29.16	740.6	29.59	751.5	70.7	21.5	46	w.	9	4		0	7 ks			0.028	0.7		
Irkutsk	28.24	717.3	29.87	758.0	50.7	10.4	95	wnw.			2		10			blank	blank		
Kasalinsk	29.22	742.1	29.39	746.6	99.0	37.2	45	n.	4	2		10 c	0						
Kasan	29.40	746.7	29.65	753.0	84.4	29.1	41	w.	7	3			10			0	0	light clouds	Observatory.
Kem	30.10	764.4	30.15	765.7	60.8	16.0	50	e.	9	4		0	4 ks			0	0		
Kertch	29.64	752.9	29.67	753.5	72.7	22.6	60	se.	7	3		0	7 k			0	0		Lagorio & Sastyrea.
Kieff	28.85	732.9	29.46	748.3	67.8	19.9	66	ssw.	9	4		0	8 ks			0.177	4.5		Observatory.
Koslov	29.15	740.4	29.67	753.5	66.0	18.9	68	calm	0	0			10 n			1.638	41.0	raining	
Libau	29.68	753.8	29.70	754.4	58.3	14.6	61	ne.	16	7			10			0.004	0.1		E. Quaas.
Lugan	29.36	745.7	29.54	750.2	76.1	24.5	33	wnw.	13	6			8			0	0		Meteorological Obs'y.
Moscow	29.17	741.0	29.62	752.3	73.6	23.1	52	sse.	6.7	3.0			9 ks			0.122	3.1		Meteorological Obs'y
Nikolajev	29.57	751.0	29.64	752.9	76.8	24.9	46	wsw.	4	2		0	8 kn			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor																			Iwanow.
Pekin, China	29.56	750.8	29.70	754.4	84.4	29.1	36	se.	3.4	1.5		0	8 n			0	0		Physical Observatory.
Petro-Alexandrovsk	29.20	741.7	29.52	749.7	103.5	39.7	18	calm	0	0		0	5 k			0	0		
Petrozavodsk	29.80	757.0	29.99	761.8	64.2	17.9	45	ne.	22	10		0	3 ks			0	0		Dr. Bergmann.
Pinsk	28.87	733.3	29.35	745.5	59.5	15.3	99	nw.	13	6			10 n			0.449	11.4	raining	
Poti	29.71	754.5	29.74	755.3	74.1	23.4	65	e.	4	2		0	0			6.583	167.2		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
St. Petersburg	29.87	758.8	29.90	759.4	56.5	13.6	52	ene.	16	7	.....	.....	10 n	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.32	693.9	29.55	750.5	92.7	33.7	33	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.19	741.3	29.79	756.6	89.8	32.1	27	calm	0	0	.....	.....	2	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.42	747.3	29.64	752.8	75.2	24.0	40	s.	20	9	.....	.....	9 n	.....	.....	0	0	.....	
Staroi Bykhov	29.05	737.9	29.49	749.1	62.6	17.0	84	ene.	7	3	.....	.....	10 kn	.....	.....	0.039	1.0	.....	
Tashkend	28.02	711.8	29.52	749.9	98.4	36.9	28	calm	0	0	.....	0	3 s	.....	.....	0	0	.....	Terch, A. M.
Tiflis	28.34	719.9	29.69	754.1	75.7	24.3	38	nw.	18	8	.....	0	0	.....	.....	0.602	15.3	.....	Physical Observatory.
Vernoe	27.21	691.0	29.55	750.6	78.4	25.8	58	w.	4	2	.....	0	8 n	.....	.....	0	0	.....	
Viatka	29.15	740.4	29.77	756.2	52.5	11.4	93	nne.	9	4	.....	.....	10	.....	.....	0.020	0.5	.....	
Warsaw	29.14	740.1	29.55	750.6	57.6	14.2	96	nnw.	11	5	.....	.....	10 n	.....	.....	0.236	6.0	light rain	Astronomical Obs'y.
Yeniseisk	29.64	752.9	29.92	760.0	60.4	15.8	52	calm	0	0	.....	.....	1	.....	.....	0	0	.....	M. O. Marks.
Scottish.																			
Monach Lt	.....	.....	29.76	755.9	54	12.2	93	sse.	.....	.....	4	.....	10	.....	.....	0.3	8.	raining	J. Youngclause.
North Unst	.....	.....	29.93	760.2	.....	.....	.....	se.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.00	762.0	30 10	764.6	74.8	23.8	55	sw.	3.8	1.7	.....	1 c	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.04	763.0	30.10	764.5	75.6	24.2	52	nw.	2.2	1.0	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.16	689.9	30.02	762.4	73.8	23.2	27	s.	2.5	1.1	.....	0	1	.....	.....	0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.89	708 3	29.98	761.4	84.2	29.0	35	s.	8.5	3.8	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.07	763.8	30.19	766.8	75.7	24.3	61	ne.	5.1	2.3	.....	2	3	.....	.....	0	0	clouds	Olayo Diaz, Director.
Oviedo	29.35	745.4	30.11	764.7	61.7	16.5	78	n.	9.4	4.2	.....	6kn	4 k	n.	n.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.16	740.7	30.03	762.7	71.6	22.0	48	n.	4.3	1.9	.....	.....	1	.....	.....	0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.05	763.2	30.12	764.9	78.6	25.9	84	e.	4.5	2.0	.....	5ck;cs	0	nnw.	.....	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.8	29.89	759.3	82.0	27.8	87	ne.	1.1	0.5	.....	1 c	3 ks	.....	.....	0.039	1.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	761.8	30.09	764.3	78.8	26.0	52	ese.	18.8	8.4	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.04	762.9	30.13	765 2	80.2	26.8	86	se.	5.6	2.5	.....	2 c	3 k	se.	se.	0	0	.....	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.08	764.1	30.12	765.1	68.4	20.2	48	s.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Umea	30.08	764.1	30.13	765.4	72.0	22.2	31	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Hernosand	29.87	758.7	29.92	760.0	72.3	22.4	42	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Stockholm	29.78	756.3	29.95	760.8	65.5	18.6	26	nne.	.....	.....	6	.....	3	.....	.....	0	0	.....	
Wisby	29.78	756.5	29.84	758.0	52.2	11.2	80	ene.	.....	.....	6	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.89	759.1	29.97	761.3	66.4	19.1	38	nne.	13.2	5.9	.....	.....	0	.....	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.76	730.5	30.16	766.1	63.1	17 3	53	n.	.....	.....	2	.....	1	.....	.....	0.004	0.1	clear	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.59	751.6	72.3	22.4	67	n.	17	7.5	.....	.....	9	.....	sw.	1.024	26.0	.....	The Observatory.
Valona	.....	.....	30.00	761.9	71.4	21.9	.....	nw.	.....	.....	3	.....	2	.....	.....	0.12	3.	raining	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.85	758.2	85.5	29.7	58	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.52	673.6	.....	.....	56	13.3	86	.....	.....	.....	.....	.....	.....	.....	.....	2.	5.	rainy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.94	760.5	30.02	762.5	73.7	23.2	66	n.	6	2.7	.....	0	0	.....	.....	0	0	clear.	J. O. Barnes.
Alpena, Michigan	29.37	746.0	30.02	762 5	65	18.3	73	se.	1	0.4	.....	3 cs	0	sw.	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	29.88	758.9	60	15.6	62	e.	6	2.7	.....	5 k	0	w.	.....	0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.24	691.9	30.03	762.7	49	9.4	71	sw.	13	5.8	.....	.....	10 s	.....	se.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.92	734.6	30.07	763.8	71.5	21.9	82	nw.	4	1.8	.....	6 cs	0	.....	.....	0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	68	20.0	78	n.	4	1.8	.....	0	0	.....	.....	0.04	1.0	clear	Jas. M. Watson.
Augusta, Georgia	29.86	758.4	30.05	763.3	75.0	23.9	82	n.	3	1.3	.....	7 c	0	nw.	.....	0	0	fair	John Healy.
Baltimore, Maryland	29.98	761.5	30.04	763.0	72	22.2	53	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.95	760.7	29.97	761.2	72.0	22.2	76	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.36	745.7	29.38	746.2	41.2	5.1	95	se.	4	1.8	.....	.....	10 n	.....	.....	0.18	4.6	light rain	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.48	723.4	30.02	762.5	63.0	17.2	93	calm	0	0	.....	2 c	3 s	.....	.....	0.22	5.6	fair	A. Pritchard.
Benton, Fort, Montana	27.25	692.1	30.02	762.5	61	16.1	72	calm	0	0	.....	0	4 ks	.....	.....	0	0	fair	S. Wheaton.
Billings, Montana	26.80	680.7	29.94	760.5	58	14.4	72	ne.	8	3.6	.....	2 cs	0	nw	.....	0.19	4.8	clear	T. Gibson.
Bismarck, Dakota	28.27	718.0	30.03	762.7	56	13.3	80	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.94	760.5	29.97	761.2	67	19.4	90	nw.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	J. T. Elker.
Boise City, Idaho	27.20	690.9	29.98	761.5	50	10.0	.....	e.	2	0.9	.....	0	2 s	.....	.....	0	0	clear	J. Kenealy.
Boston, Massachusetts	29.81	757.2	29.96	761.0	72.0	22.2	62	nw.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.98	761.5	81.0	27.2	85	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Buffalo, New York	29.33	745.0	30.07	763 8	64.2	17.9	73	sw.	5	2.2	.....	7 c;cs	0	w.	.....	0	0	fair	W. Finn.
Buford, Fort, Dakota	28.17	715.5	30.13	765.3	50	10.0	86	ne.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	A. Schneider.
Burlington, Vermont	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. N. Farnell.
Cairo, Illinois	29.66	753.4	30.05	763.3	71.7	22.1	86	nw.	2	0.9	.....	2 c	6 s	w.	nw.	0.01	0.3	threatening.	W. H. Ray.
Cape Henry, Virginia	29.98	761.5	30.00	762.0	73.0	22.8	82	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.95	760.7	29.98	761.5	70.0	21.1	76	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. E. Smith.
Cape Mendocino, California	29.39	746.5	30.07	763.8	49	9.4	86	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	83	28.3	74	w.	14	6.3	.....	0	6 k	.....	w.	0.11	2.8	fair	G. W. Davis.
Charleston, S. Carolina	29.91	759.7	29.96	761.0	77	25.0	82	n.	6	2.7	.....	9 c	0	nw.	.....	0.08	2.0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.04	763.0	74 0	23.3	73	ne.	4	1 8	.....	0	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.09	764.3	72 5	22.5	83	w.	2	0.9	.....	4 cs	0	w.	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	29.92	760.0	55.7	13.2	91	n.	5	2.2	.....	.....	10 s	.....	n.	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.30	744.2	29.98	761.5	69 1	20.6	82	se.	2	0.9	.....	.....	hz.	.....	.....	0	0	dense haze	John Laurens.
Chincoteague, Virginia	29.97	761.2	29.99	761.7	71	21.7	94	n.	9	4.0	.....	0	3 s;hz	.....	ne.	0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.45	748.0	30.10	764.5	69.0	20.6	76	se.	2	0.9	.....	3 cs	0	.....	.....	0	0	clear	L. Dunne.
Cleveland, Ohio	29.36	745.7	30.09	764.3	64.3	17.9	74	se.	4	1.8	.....	5 c;k	0	w;n	.....	0	0	fair	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.00	762.0	72	22.2	76	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. J. Kenan.
Columbus, Ohio	29.23	742.4	30.07	763.8	63	17.2	84	n.	1	0.4	.....	3 cs	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.10	713.7	29.97	761.2	75.2	24.0	76	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Davenport, Iowa	29.32	744.7	29.96	761.0	70	21.1	90	s.	2	0.9	.....	.....	10s;fg	.....	sw.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.85	758.2	72	22.2	53	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.28	718.3	30.02	762.5	62	16.7	39	sw.	12	5.4	.....	6 c	0	sw.	.....	0	0	fair	D. Moore.
Deadwood, Dakota	25.49	647.4	29.93	760.2	55	12.8	67	se.	3	1.3	.....	4 ck	0	w.	.....	0.11	2.8	fair	F. Willson.
Delaware Breakwater, Del.	29.98	761.5	30.00	762.0	67	19.4	93	n.	5	2.2	.....	0	fg.	.....	.....	0	0	clear	T. S. Townsend.
Denver, Colorado	24.82	630.4	29.86	758.4	62.5	16.9	69	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.11	739.4	29.99	761.7	73	22.8	59	n.	8	3.6	.....	.....	10 s	.....	nw.	0.20	5.1	cloudy	F. W. Conrad.
Detroit, Michigan	29.36	745.7	30.04	763.0	70.0	21.1	76	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	E. R. Bruce.
Dodge City, Kansas	27.35	694.7	29.86	758.4	73	22.8	76	sw.	8	3.6	.....	0	5 ks	.....	sw.	0	0	fair	D. J. Carr.
Dubuque, Iowa	29.27	743.4	29.96	761.0	69.2	20.7	87	se.	1	0.4	.....	.....	10 s	.....	se.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.18	741.2	29.91	759.7	70	21.1	76	calm	0	0	.....	0	fg	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. Belford.
Eagle Rock, Idaho	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. B. Boynton.
Eastport, Maine	29.86	758.4	29.93	760.2	51.0	10.6	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.22	691.4	29.90	759.4	66	18.9	66	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.27	667.2	29.86	758.4	74.0	23.3	57	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.36	745.7	30.08	764.0	68	20.0	70	se.	4	1.8	.....	4 c	0	w.	.....	0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.32	744.7	29.97	761.2	67.0	19.4	78	s.	4	1.8	.....	hz.	hz.	.....	.....	0	0	dense haze.	George Heathcote.
Galveston, Texas	30.02	762.5	30.06	763.5	84	28.9	72	s.	4	1.8	.....	0	8 ks	.....	s.	0	0	cloudy	E. O'C. Macnierney.
Grand Haven, Michigan	29.33	745.0	29.98	761.5	72.0	22.2	76	se.	3	1.3	.....	3 ck	0	.....	.....	0	0	clear	J. E. Mueller.
Grant, Fort, Arizona	.....	.....	.....	.....	72.4	22.4	32	nw.	6	2.7	.....	0	5 s	.....	nw.	0	0	fair	Robert C. Lord.
Hatteras, North Carolina	29.94	760.5	29.96	761.0	75	23.9	82	ne.	17	7.6	.....	hz.	0	.....	.....	0.11	2.8	clear	R. M. Crawford.
Helena, Montana	25.86	656.8	29.98	761.5	58	14.4	60	sw.	3	1.3	.....	5 ck	0	.....	.....	0	0	fair	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.62	726.9	29.96	761.0	63.9	17.7	84	nw.	26	11.6		2 cs	3 s	nw.	nw.	0.71	18.0	fair	S. W. Glenn.
Indianapolis, Indiana	29.26	743.2	30.04	763.0	73.8	23.2	60	se.	5	2.2		2 c	0	w.		0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.99	761.7	30.02	762.5	79.8	26.6	86	s.	6	2.7		0	2 ks			0	0	clear	I. A. Reed.
Jacksonville Florida	30.02	762.5	30.06	763.5	77.0	25.0	79	nw.	7	3.1		4 cs	5 s			0.23	5.8	cloudy	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.29	744.0	29.93	760 2	71.0	21.7	82	se.	4	1.8		0	5 ks		se.	0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.08	764.0	30.10	764.5	85.0	29.4	72	e.	3	1.3		5c;cs	1 k	w.	e.	0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.98	761.5	30.00	762.0	73.5	23.1	67	ne.	18	8.0		hz.	0			0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.06	738.1	30.08	764.0	70.6	21.4	88	ne.	2	0.9		0	1 s		ne.	0.10	2.5	clear	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	29.96	761.0	70	21.1	70	s.	4	1.8			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.07	738.4	29.94	760.5	68	20.0	84	se.	6	2.7			10 n		s.	0.53	13.5	thund'r st'm	A. W. Browne.
Lewiston, Idaho	29.18	741.2	30.00	762.0	54.0	12.2	61	calm	0	0		3 cs	2 ks			0	0	fair	H. S. Blandford.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	76	24.4	85	calm	0	0		0	0			inap.	inap.	clear	W. U. Simons.
Los Angeles, California	29.61	752.1	30.00	762.0	55	12.8	93	ne.	2	0.9		0	fg.			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.48	748.8	30.03	762.7	73.5	23.1	74	ne.	4	1.8		1 c	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.38	746.2	30.05	763.3	75	23.9	64	ne	1	0.4		3 ok	0	n.		0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.37	746.0	30.01	762.2	61.0	16.1	81	calm	0	0		7cs;ck	0			0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	29.96	761.0	29.97	761.2	75.0	23.9	76	n.	11	4.9		0	hz.			0.27	6.9	clear	William Daly.
Maginnis, Fort, Montana	25.67	652.0	30.00	762.0	57	13.9	44	nw.	5	2.2		10 k	0	nw.		0	0	cloudy	F. Burke.
Marquette, Michigan	29.23	742.4	29.95	760.7	74	23.3	55	w.	10	4.5		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.02	762.5	71	21.7	94	calm	0	0		1 cs	sk.	ne.		0.01	0.3	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.26	743.2	30.00	762.0	67	19.4	78	se.	2	0.9		9 cs	0	w.		0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.01	762.2	30.05	763.3	76.7	24.8	83	n.	1	0.4		8 cs	0			2.57	65.3	cloudy	C. A. Read.
Montgomery, Alabama	29.79	756.7	30.02	762.5	78.7	25.9	72	w.	5	2.2		6cs;hz	0	nw.		0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.05	737.9	30.02	762.5	55	12.8	86	n.	6	2.7			10 s		n.	0	0	cloudy	H. White.
Mt. Washington, N. H.	23.91	607.3	30.03	762.7	45.0	7.2	98	nw.	16	7.2		0	5 s		nw.	0	0	fair	S. W. Beall.
Nashville, Tennessee	29.47	748.5	30.03	762.7	75.0	23.9	85	se.	1	0.4		6 ck	0	w.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.85	758.2	29.96	761.0	69	20.6	70	ne.	10	4.5		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.94	760.5	29.99	761.7	71	21.7	71	n.	1	0.4		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.02	762.5	77.0	25.0	82	nw.	2	0.9		0	9 s			0.44	11.2	cloudy	M. Herman.
New York, New York	29.83	757.7	30.00	762.0	71	21.7	71	n.	2	0.9		0	fg.			0	0	clear	G. E. Franklin.
Norfolk, Virginia	29.97	761.2	30.00	762.0	77.8	25.4	64	ne.	4	1.8		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.10	688.3	29.90	759.4	65.6	18.7	74	e.	20	8.9		0	6 s		w.	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.07	763.8	30.11	764.8	45.0	7.2	68	s.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.10	764.5	68.2	20.1	84	ne.	6	2.7			10 n			1.63	41.4	thnd'r storm	A. Pollak.
Ooglaamie, Alaska	29.80	756.9	29.82	757.4	30.8	— 0.7	100	ne.	16	7.2			10s;fg			inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.71	754.6	30.03	762.7	64.0	17.8	81	sw.	3	1.3		0	0			0	0	clear	J. G. Linsley.
Palestine, Texas	29.55	750.6	30.09	764.3	80.0	26.7	82	sw.	6	2.7		0	5 ks		sw.	0	0	fair	J. W. Byram.
Pensacola, Florida	30.02	762.5	30.04	763.0	75.7	24.3	88	w.	4	1.8		2 cs	7 s	w.	nw.	1.41	35.8	cloudy	M. McGauran.
Philadelphia, Pa	29.91	759.7	30.01	762.2	71	21.7	84	n.	8	3.6		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.14	460.7	29.96	761.0	37	2.8	85	nw.	16	7.2		0	0			0	0	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.29	744.0	30.08	764.0	59.0	15.0	90	nw.	2	0.9		6 ck	4 s	nw.	nw.	0	0	cloudy	W. A. Reid.
Poplar River, Montana	27.99	710.9	30.09	764.3				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.34	745.2	30.01	762.2	63.0	17.2	84	s.	6	2.7		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.90	759.4	29.94	760.5	69.0	20.6	70	w.	4	1.8		0	0			0.06	1.5	clear	W. W. Eichelberger
Portland, Oregon	30.08	764.0	30.15	765.8	51.3	10.7	80	ene.	2	0.9		4 c	0			0	0	fair	M. L. Hearne.
Portsmouth, N. O.					75	23.9	76	ne.	23	10.3		0	0			0.21	5.3	clear	F. P. Chaffee.
Prescott, Arizona	24.86	631.4	29.88	758.9	55.5	13.1	50	sw.	4	1.8		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.93	760.2	29.96	761.0	68	20.0	73	nw.	1	0.4		0	1s;fg			0	0	clear	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.66	753.4	30.01	762.2	62	16.7	60	s.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.62	752.3	30.17	766.3	44.8	7.1	80	calm	0	0		1 cs	0	nw.		0	0	clear	J. J. Nanry.
Sacramento, California	29.92	760.0	29.99	761.7	54.5	12.5	86	se.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.49	749.0	30.08	764.0	70.7	21.5	90	n.	9	4.0		2 cs	8 ks		w.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.51	749.5	29.55	750.6	49	9.4	86	nw.	9	4.0		0	4 s		nw.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.11	739.4	29.95	760.7	69.0	20.6	90	calm	0	0		5 ck	1 s	w.		0	0	fair	P. F Lyons.
St. Vincent, Minnesota	29.16	740.7	30.01	762.2	45	7.2	93	nw.	14	6.3		2 cs	0			0.20	5.1	clear	C. B. Dilley
Salt Lake City, Utah	25.66	651.8	29.88	758.9	68	20.0	32	nw.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.87	758.7	29.94	760.5	60.2	15.7	92	n.	4	1.8			fg.			0	0	dense fog	A. O. Dobbins.
Sandy Hook, New Jersey	29.95	760.7	29.98	761.5	68.0	20.0	78	nw.	12	5.4		0	0			0	0	clear	B. A. Blundon.
Sanford, Florida	29.98	761.5			81.1	27.3	79	sw.	3	1.3		6 c	0	w.		0	0	fair	J. B. Marbury.
San Francisco, California	29.98	761.5	30.05	763.3	52	11.1	90	sw.	8	3.6		1 c	fg.	sw.	sw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.90	759.4	29.99	761.7	77	25.0	74	w.	6	2.7		2 c	1 k	w.	w.	1.09	27.7	clear	H. W. Ford.
Shaw, Fort, Montana	26.44	671.6	30.01	762.2	56	13.3	93	w.	18	8.0		0	8 n		w.	0.15	3.8	light rain	A. L. Mathews.
Shreveport, Louisiana	29.81	757.2	30.04	763.0	79.0	26.1	82	sw.	2	0.9		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.70	730.5	29.96	761.0	77.5	25.3	84	sw.	4	1.8		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.27	743.4	29.33	745.0	54	12.2	62	e.	9	4.0			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.55	750.6	30.01	762.2	74.0	23.3	82	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.95	760.7	29.99	761.7	70.0	24.4	82	n.	5	2.2		0	3 ks			0.25	6.3	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.06	712.7	30.10	764.5	49.7	9.8	66	calm	0	0		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.33	745.0	30.00	762 0	72.5	22.5	82	sw.	10	4.5		2 c	5s;ks	w.	w.	inap.	inap.	fair	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	26.99	685.5	29.91	759.7	73	22.8	84	calm	0	0		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona					80	20.7	33	calm			0	2 ok	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.36	745.7	30.04	763.0	74	23.3	60	s.	4	1.8		5 c	sk.	nw.		0	0	fair	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.85	758.2	29.88	758.9	47	8.3	63	sw.	4	1.8			10 k			0.01	0 3	cloudy	Samuel Applegate.
Verde, Fort, Arizona					65	18.3	33	ne.	1	0.4		0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.83	757.7	30.08	764.0	73.6	23.1	87	e.	2	0.9		2 cs	6 s			0.05	1.3	cloudy	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.95	760.7	30.06	763.5	69.7	20.9	66	sw.	2	0.9		0	0			0	0	clear	B. M. Pursell.
West Las Animas, Colorado	26.03	661.2	29.80	756.9	62.9	17.2	51	w.	7	3.1		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.95	760.7	30.00	762.0	77.0	25.0	74	ne.	5	2.2		0	0			0.02	0.5	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.70	729.0	29.98	761.5	68	20.0	84	w.	5	2.2			10 s			0.39	9.9	cloudy	J. H. Atfield.
Yuma, Arizona	29.68	753.9	29.82	757.4	73.5	23.1	84	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.09	764.3	80	26.7	74	nw.	1	0.4		5 cs	1 s	ne.	e.	0	0	fair	Robert Johnston.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	79	26.1	78	se.			1	3 c	4 s	e.		0.160	4.1		Dr. O. J. Hering.
Puerto Berrio, U. S. Col'mba	29.42	747.3	29.98	761.5	78	25.6	95	s.			1		fg.			0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	92	ene.			1	c	ks		ne.	1.41	35.8	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe
York Factory, B. A.	30.18	766.6	30.24	768.1	56.0	13.3	94	n.	9	4.0		4 k	2 s	n.	n.	1.40	35.6	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 45° 20′, E. 12° 22′	30.01	762.2	70	21.1	70	nnw.			1		1	nnw.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.05	763.3	77.5	25.3	85	sse.			3		8	sse.						d. clouds.
H. M. S. Gannet, N. 43° 30′, W. 17° 10′	30.12	765.0	64	17.8	83	wsw.			5		5					4	var.	d. clouds.
H. M. S. Himalaya, N. 41° 48′, W. 10° 10′	30.11	764.8	70	21.1	75	nnw.			3		5					3	nnw.	d. clouds.
H. M. S. Minotaur, Arosa Bay, Spain	30.09	764.3	55	18.3	71	wsw.			1		1	sw.				1	wnw.	blue sky.
H. M. S. Opal, N. 7° 21′, W. 14° 33′	30.02?	762.5?	80	26.7	78	ssw.			2		7	ssw.				2	sse.	d. clouds.
H. M. S. Tyne. N. 4° 44′, W. 3° 49′	30.03	762.7	80	26.7	78	sse.			3		3	sse.				2	sse.	d. clouds.
H. M. S. Thetis, N. 42° 44′, W. 13° 10′	30.17	766.3	63	17.2	89	wnw.			3		4	wsw.				1	nnw.	d. clouds.
H. M. S. Tenedos, Great Jervis Harbor, N. F.	30.08	764.0	60	15.6	88	calm			0		2							foggy.
U. S. Navy Yard, Portsmouth, N. H *	29.93	760.2	67	19.4	84	nw.	5	2.2			0			0	0			clear.
U. S. S. Constellation, Lynn Haven Roads, Va *	30.00	762.0	74	23.3	81	ne.			3		0					mod.	ne.	clear.
U. S. S. Dale, N. 37° 00′, W 76° 14′	29.98	761.5	75	23.9	90	ene.			2		0					sm'h		clear.
U. S. S. Lancaster, Stockholm, Sweden	29.90	759.4	60	15.6	100	e.			2		2		e.			sm'h		fair.
U. S. S. Nipsic, N. 41° 57′, W. 56° 37′ *	29.99	761.7	67	19.4	95	s.			4		8		s.			mod.	s.	fair.
U. S. S. Portsmouth, Newport, R. I.	30.00	762.0	66	18.9	100	nnw.			1		2		nnw.					clear.
U. S. S. Powhatan, Port Royal, S. C.	29.96	761.0	76	24.4	91	nw.			2		2							clear.
U. S. S. Quinnebaug, Gaboon river, Guinea	30.02	762.5	78	25.6	78	sse.			1		5		s.			sm'h		fair.
U. S. S. Saratoga, Newport, R. I.	30.02	762.5	68	20.0	84	n.			1-2		2		n.	0	0	sm'h		fair.
U. S. S. Vandalia, N. 19° 15′ W. 73° 23′	30.13	765.3	84	28.9	82	ne.			1		0							clear.
U. S. S. Yantic, St Johns, N. F	30.09	764.3	53	11.7	100	e.			1		10							foggy.
Cottica, N. 23° 12′, W. 57° 47′	30.26	768.6	82	27.8	89	ene.			2		8							d. clouds.
May Hulse, N. 10° 09′, W. 30° 00′	30.07	763.8	80.2	26.8	78	ne.			4		2							blue sky.
S. S. St. Kilda, N. 11° 30′ A 58° 40′	30.11	764.8	81.6	27.6	78	ene.			3		3							blue sky.
H.P.M.S. Rio Lima, N. 23° 55′, W. 20° 26′	30.09	764.3	69.8	21.0	91	ne.			2		4		ne.			3		d. clouds.
S. S. British Crown, N. 40° 15′ W. 68° 58′ †	29.99	761.7	62	16.7		nw.			1		0			0	0			clear.
S. S. British Prince, N 50° 07′ W. 19° 00′ †	30.01	762.2	60	15.6		w.			5		3		nw.	3 h'r	3 h'r	mod.	wnw.	clear.
S. S. Illinois, Liverpool, Eng	29.87	758.7	57	13.9		wsw.			2		6		sw.					cloudy.
S. S. Lord Clive, N. 45° 40′, W. 38° 11′						calm			0		10			0	0	sm'h		cloudy.
S. S. Lord Gough, Liverpool Bay, Eng						sse.			3		8		sse.	0	0			cloudy.
S. S. Ohio, N. 49° 02′, W. 20° 54′ †	29.86	758.4	56	13.3		w.			6		10		wsw.	2 h'r	2 h'r	mod.	w.	cloudy.
S. S. Pennsylvania, N. 39° 51′. W. 58° 49′ †	30.00	762.0	72	22.2		ssw.			2		2			0	0			clear.
S. S. Grecian, N. 48° 18′, W. 48° 23′	29.89	759.2	43	6.1	100	e.			4		10			20 h'r	20 h'r	light	sw.	dense fog.
S. S. Scandinavian, Charlestown, Mass	29.97	761.2	70	21.1		ssw.			3		0							blue sky.
S. S. Polynesian, N. 46° 36′, W. 56° 50′	30.11	764.8	50	10.0		se.			1		10			0	0	sm'h	s.	foggy.
S. S. Prussian, N. 44° 41′ W. 54° 26′	30.00	762.0	54	12.2		ene.			2		4			3 h'r	3 h'r	sm'h	ene.	clear.
S. S. Manitoban, N. 47° 00′, W. 51° 17′	30.13	765.3	48	8.9	78	e.			2		10		e.	0	0	sm'h	e.	hazy.
S. S. Alvo, Mayaguez, Porto Rico, W. I *	30.00	763.5	78	25.6		nw.			5		4?		n.	0	0			cloudy ?
S. S. Andes, N. 22° 33′, W. 74° 20′ †*	30.10	764.5				ene.			1					0	0			fine.
S. S. Alene, Greytown, Nicaragua †	29.95	761.5				calm			0		0			0	0	high	ene.	fine.
S. S. Anchoria, N. 42° 59′, W. 62° 43′ †	29.93	760.2				w.			1		fg.			12 h'r	12 h'r	sm'h		foggy.
S. S. Dorian, Gibraltar, Mediterranean	30.14	765.5				ese.			5		3		ese.	0	0			clear.
S. S. Furnessia, N. 40° 43′, W. 62° 15′ †	29.88	758.9	63	17.2	97	wnw.			3		4		wnw.	0	0	sm'h		fair.
S. S. Carroll, Halifax, N. S* †	30.03	762.7	67	19.4	95	calm			0		fg			rain	rain			dense fog.
S. S. Jerome, N. 36° 32′ W. 67° 49′ *	29.76	755.9	75	23.9	?	nne.			3		9		ne.	0	0	sli't	sw.	cloudy.
S. S. Llandaff City, Bristol, Eng †	29.92	760.0	62	16.7		sw.			3		5		w.	sh'rs	sh'rs	sm'h		showery.
S. S. Bothnia, N. 42° 04′, W. 50° 52′	30.15	765.8	61	16.1	88	calm			0		8		w.	6 h'r	6 h'r	mod.	sw.	hazy.
S. S. Scythia, N. 41° 50′, W. 55° 53′	30.02	762.5	70	21.1	100	s.			2		7		sse.	2 h'r	2 h'r			
S. S. Colina, Greenock, Scotland †	29.85	758.2				se.			1		2		se.	0	0	sm'h		clear.
S.S. Canada, N. 42° 32′, W. 49° 16′			68.0	20		w.			5	ck	0	w.		0	0	hv'y	w.	covered.
S. S. Arizona, N. 42° 45′, W. 62° 00′	29.81	757.2	58	14.4		calm			0		fg.			0	0	sm'h		dense fog.
S. S. Bohemia, Elbe river, Germany						nw.			4		3		nw.	0	0		nw.	fair.
S. S. Frisia, N. 41° 58′, W. 54° 03′	30.02	762.5				sw.			2		9		sw.	0	0	sm'h	sw.	foggy
S. S. Gellert, N. 40° 50′, W. 64° 00′	29.89	759.2	67	19.4	89	ne			2		10		ne.	2 h'r	2 h'r	sm'h	ne.	covered.
S. S. Lessing, N. 49° 43′, W. 4° 48′	29.95	760.7	60	15.6		ssw.			5		10		sw.	½ h'r	½ h'r	long	sw.	misty.
S. S. Rugia, New York, N. Y.	29.97	761.2																
S. S. City of Berlin, N. 51° 24′, W. 13° 30	29.74	755.4	58	14.4	94	w.			5		5?		sw.	sli't	sli't	mod.	w.	overcast?
S. S. Mentmore, N. 44° 58′, W. 43° 01′ *†	30.19	766.8				se.			3		5		se.	0	0	sm'h		foggy.
S. S. Bulgarian, N. 43° 10′, W. 54° 51′ *	30.11	764.8				se.			2		10		se.	3 h'r	3 h'r	light	s.	cloudy.
S. S. Archimedes, N. 49° 22′, W. 16° 55′	29.77	756.1				w.			5		6		w.	sh'rs	sh'rs	mod.	wnw.	fine.
S. S. Hevelius, N. 51° 30′, W. 6° 00′ †	30.05	763.3	62	16.7		s.			5		10					sm'h		cloudy.
S. S. Sirius, N. 47° 10′ W. 8° 10′ *	29.93	760.2				ssw.			4		10		ssw.	2 h'r	2 h'r	mod.	sw.	misty.
S. S. City of San Antonio, N. 38° 31′ W. 74° 20′ *†	29.98	761.5	71	21.7		nne.			2		0					light	se.	clear.
S. S. Colorado, N. 24° 25′, W. 81° 33′ †	30.12	765.0	82	27.8		nne.			4		3		e	h'vy	hv'y	small	e.	clear.
S. S. Chalmette, N. 28° 03′, W. 87° 50′			81	27.2		s.			3		3		s.	0	0	sm'h		clear.
S. S. New York, N. 32° 10′, W. 79° 45′ *†	30.00	762.0	77	25.0		nw.			4		3		nw.			mod.	w.	clear.
S. S. Alleghany, Chesapeake Bay †	30.02	762.5	73	22.8		ne.			2		0			0	0			clear.
S. S. Denmark, N. 40° 46′, W. 60° 20′ †	29.97	761.2	74	23.3		ssw.			6		10		sw.	10 h'r	10 h'r	sli't	sw.	raining.
S. S. England, N. 45° 33′, W. 35° 59′	30.20	767.1				s.			2		10		s.	sh'rs	sh'rs	sm'h		overcast.
S. S. Helvetia, New York, N. Y.	30.03	762.7	78	25.6	86	n.			1		0			0	0			clear.
S. S. Holland, N. 42° 04′, W. 44° 48′	30.03	762.7	70	21.1		sw.			5		10		sw.	2 h'r	2 h'r	mod.	sw.	cloudy.
S. S. The Queen, N. 49° 52′, W. 21° 10′	29.94	760.5	63	17.2	47	w.			6		5		w.	0	0	r'gh	wnw.	fair.
S S. Braunschweig, N. 38° 00′, W. 70° 01′	29.97	761.2	73.0	22.8	90	ne.			3		4		ne.	0	0	sm'h	ne.	fair.
S. S. Elbe, N. 52° 58′, E. 4° 01′	30.09	764.3	64	17.8	83	sw.			3-4		2			0	0	sm'h	sw.	hazy.
S. S. Fulda, N. 41° 29′, W. 52° 21′	30.15	765.7	73	22.8	90	s.			4		5		s.	0	0	mod	sse.	fair.
S. S. Neckar, N. 46° 37′, W. 29° 48′	30.15	765.8	60.0	15.6	?	nw.			4		5		nw.	0	0	mod.	nw.	fair.
S. S. Oder, N. 49° 18′, W. 11° 26′	29.91	759.7	61	16.1		sw.			3		10		ssw.	0	0	mod.	wsw.	cloudy.
S. S. Ohio, N. 44° 14′, W. 35° 14′	30.27	768.8				ne.			2		10		n.	3 h'r	3 h'r	sm'h	s.	cloudy.
S. S. Salier, N. 49° 45′, W. 30° 15′ *	30.07	763.8	55	12.8	87	nnw.			5		7		nw.	0	0	high	nw.	fair.
S. S. Weser, N. 49° 48′, W. 10° 25′	29.92	760.0	59	15.0		sw.			3		10		sw.	3 h'r	3 h'r	mod.	sw.	cloudy.
S. S. City of Augusta, New York, N. Y. †	30.01	762.2				nnw.			4		6		n.	0	0			fair.
S. S. Colon, Aspinwall, Panama †	29.93	760.2	79	26.1	95	calm			0		0			0	0			clear.
S. S. Muriel, N. 23° 00′, W. 65° 12′	30.27	768.8	82	27.8		e.			3		10		e.	0	0	mod.	e.	overcast.
S. S. Orinoco, N. 37° 53′, W. 70° 38′ †	30.02	762.5	74	23.3		ene.			3		3			1 h'r	1 h'r	light	ssw.	clear.
S. S. Rhynland, N. 42° 20′, W. 42° 30′	30.16	766.1	68	20.0	90	wsw.			6		6		wsw.	0	0	high	sw.	squally.
S. S. Pennland, Antwerp, Belgium	30.11	764.8	67	19.4	79	sw.			2		8		w.	0	0			cloudy.
S. S. Switzerland, N. 46° 01′ W. 36° 41′ †	30.26	768.6				ne.			1		8		ne.	0	0	light	wsw.	cloudy.
S. S. Waesland, Jersey City, N. J.	30.12	765.0	72	22.2		ssw.			3		3		w.	0	0			clear.
S. S. P. Caland, N. 47° 47′, W. 26° 40′	30.10	764.5	58.5	14.7	89	nw.			4		7		nnw.			4	nw.	fair.
S. S. W. A. Scholten, N. 46° 20′, W. 37° 35′	30.18	766.6	65.2	18.4	94	se.			2-3		7		w.	10 h'r	10 h'r	2	nnw.	fair.
S. S. Belize, N. 14° 12′, W. 76° 09′ *	29.92	760.0	85	29.4		e.			6		9		e.	0	0	h'vy	e.	cloudy.
S. S. Valencia, La Guayra, Venezuela †	30.18	766.6	80	26.7	82	ene.			6		4		ene.	0	0	mod.	ne.	hazy.
S. S. State of Indiana, N. 41° 34′, W. 62° 45′ † *	29.86	758.4	60	15.6		ene.			2		4		ne.	0	0	sm'h		fair.
S. S. State of Nevada, N. 52° 17′, W. 27° 56′ †	29.91	759.7	52	11.1		nw.			6		8		nw.	0	0	r'gh	nw.	squally.
S. S. Thingvalla, New York, N. Y †	30.05	763.3	82.4	28.0		nw.			3		1		nw.	0	0			clear.
S. S. Romano, New York, N. Y	30.00	762.0	70	21.1					3					0	0			fine.
S. S. Oregon, N. 48° 38′, W. 63° 07′	29.93	760.2	49	9.4		s.			1		10		nnw.			mod.	se.	foggy.
S. S. Daniel Steinmann, Montreal, Canada †	29.97	761.2	73	22.8		calm			0		0			0	0			clear.
S. S. Norman, N. 40° 06′, W. 73° 38′	29.90	759.4				ene.			1		0			0	0	sm'h		clear.
S. S. Saxon, Boston, Mass †	29.97	761.2				calm			0		0							clear.
S. S. Adriatic, N. 48° 18′, W. 31° 41′ *†	30.27	768.8	57	13.9		wnw.			3		1		nw.	0	0	sli't	wnw.	clear.
S. S. Celtic, N. 41° 02′, W. 63° 24′ †	29.90	759.4	68	20.0		n.			3		10		ne.	0	0	sm'h		cloudy.
S. S. Iowa, N. 50° 38′, W. 15° 55′ †	29.78	756.4	62	16.7		wsw.			5		9		wsw.	2 h'r	2 h'r	mod.	wsw.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.16	766.1	77.5	25.3	65	e.			5		0			0	0			hazy.
Schr. Abbie H. Gheen, Jersey City, N. J †	30.10	764.5	73	22.8		n.												clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
Bk. Aquidneck, N. 8° 35', W. 29° 42' *†	30.00	762.0				e.			3		0			0	0	h'vy	se.	clear.
Schr. Anna A. Holton, N. 25° 58', W. 76° 31' *†	30.14	765.5	84	28.9		sw.			5		2		sw.	0	0	mod.	sw.	clear.
Schr. Arthur Burton, Thatchers Island, Mass†	29.93	760.2				n.			1		0			0	0			fine.
Bk. Aureola, N. 49° 12', W. 22° 30' †	29.97	761.2	65	18.3		nnw.			6		8		nnw.	0	0	hv'y	nw.	gloomy.
Bk. Arda, Sackville, N. B†	29.95	760.7				ese.			3		2		ese.	0	0			clear.
S. S. Burswell, N. 48° 50', W. 7° 02'*†	30.00	762.0	63	17.2		ssw.			4		10		ssw.	8 h'r	8 h'r	light	ssw.	rainy.
Bg. Belle of the Bay, Apalachicola, Fla†	30.09	764.3				w.			5		4		w.	½h'r	½h'r			threatening
Bk. Bayonaise, N. 25° 57', W. 26° 47'			74.3	23.5		ne.			4		3		ne.			r'gh	ne.	fine.
Schr. C. R. Flint, N. 23° 00', W. 97° 28'†	30.01	762.2	82	27.8		calm			0		2		s.	0	0	short	se.	fair.
Bk. Cato, Near North Cape, Norway*†	30.27	768.8				ene.			3		2		e.			sm'h	ene.	fair.
S. Criterion, off Fire Island, N. Y*†	29.85	758.2				calm			0		1		s.	0	0			clear.
Schr. Clotilde, Tuspan Bar, Mexico*†	29.95	760.7	82	27.8		nnw.			2		2		w.	1 h'r	1 h'r	sm'h	ese.	clear.
S. S. D. J. Foley, N. 19° 00', W. 75° 23'*†	30.08	764.0	83	28.3	79	ne.			2		3		ne.	0	0	long	e.	clear.
Bkt. David A. Preston, N. 32° 05', W. 80° 00'						nnw.			2		0			0	0	mod.	sw.	
S. E. J. Spicer, N. 40° 50', W. 69° 00'	30.01	762.2	63	17.2	94	nw.			1		0			0	0	sm'h		clear.
Bk. E. D. Bigelow, N. 54° 43', W. 3° 30'*†	29.86	758.4	75	23.9		sw.			4		2		sw.	2 h'r	2 h'r			clear.
U. S. Fish Com. S. S. Fish Hawk, Hampton Roads, Va†	30.07	763.8	82	27.8	91	e.			2		1		calm	0	0			clear.
S. Festina Lente, N. 47° 38', W. 60° 56'	29.96	761.0	48	8.9		se.			5		fg.			1 h'r	1 h'r	mod.	se.	foggy.
Sch. F. E. Waters, N. 26° 54', W. 76° 39'*†	30.20	767.1				sw.			2				sw.	0	0	sm'h	sw.	fair.
Bk. George Davis, N. 55° 20', W. 6° 13'						se.			5				sw.	0	0		w.	
Bgt. George, N. 17° 50', W. 66° 35'*†	30.12	765.0	81	27.2		ese.			3		2		ese.	0	0	mod.	ese.	fair.
Bk. Galeon, N. 36° 26', W. 73° 12' †	29.97	761.2	75	23.9		nne.			4		3		ne.	0	0		ene.	blue sky.
Bk. Heinrich & Tonio, N. 40° 37', W. 59° 25' †	29.92	760.0	71	21.7		ssw.			5		10			5 h'r	5 h'r	light	ssw.	rainy.
S. Hedwig, N. 42° 27', E. 15° 51'	29.97	761.1	68.0	20.0	87	n.			6		3		n.	0	0	3	n.	fine.
Bk. Hattie G. McFarland, New York, N. Y			76	24.4		s.			4		3		n.	0	0			fair.
Bk Harriet S. Jackson, N. 37° 58', W. 71° 25'						ne.			1		2		ene.	0	0	small	s.	clear.
Bk. Horace Scudder, N. 13° 25', W. 61° 00' *†	30.20	767.1	82	27.8		e.			5		3		e.	0	0	light	e.	fine.
Schr. Isabel Alberto, St. Augustine, Fla†	30.02	762.5				w.			2		3		w.	sh'rs	sh'rs			fair.
Bk. Johanne, N. 47° 15', W. 59° 33' *†	30.00	762.0	56	13.3		ese.			2		10		var.	0	0	mod.	sse.	foggy.
Schr. John L. Thomas, Old Providence Island, C. A*†	30.08	764.0	86	30.0		ene.			4		2		e.	1 h'r	1 h'r			clear.
Bg. John Wesley, N. 9° 25', W. 25° 46' *†	29.94	760.5	81	27.2		ene.			3		8		s.	0	0	cross	var.	cloudy.
Schr. Jennie N. Huddell, N. 34° 08', W. 76° 40'†	29.98	761.8	95	35.0		ne.			5		2		w	2 h'r	2 h'r	short	sse.	fair.
S. J. W. Gildemeister, N. 16° 19', W. 29° 49'	30.15	765.8	77.0	25	80	var.			4		2 k		e.	0	0	3	ssw.	d. clouds
Bg. L. & W. Armstrong, N. 15° 32', W. 60° 45' *†	30.18	766.6				e.			5		1		e.	0	0	mod.	e.	fine.
Light-house Tender Laurel, Key West, Fla†	30.10	764.5	84	28.9		se.			1-2		6		se.	0	0			fair.
Bk. Louise Adelaide, N. 37° 35', W. 75° 00'	30.04	763.0	76	24.4		ene.			1		0			0	0	sm'h	s.	clear.
S. S. Madrid, N. 37° 04', W. 65° 15'†	29.95	760.7	72	22.2	100	wsw.			5		10		wsw.	10 h'r	10 h'r	mod.	var.	rainy.
Schr. Minnie A. Bonsall, Rondout, N. Y †	30.01	762.2	73	22.8		sw.			1					0	0			clear.
Bgt. Myrtle, Mayagues, Porto Rico, W. I*†	30.15	765.8				e.			3				e.	0	0			fair.
Schr. Maggie Abbott, N. 34° 10', W. 74° 30' †	29.91	759.7				nne.			3		7		calm	hv'y	h'vy	short	sw.	cloudy.
S. S. Mendozo, N. 37° 27', W. 66° 03'†	30.10?	764.5?				ne.			1		1		ne.	0	0	r'gh	var.	overcast.
Bk. National Eagle, N. 39° 10', W. 22° 42'						s.			2		2		s.	0	0	sm'h		fair.
Bg. O. C. Clary, N. 16° 20', W. 60° 55' *†	30.15	765.8				ese.			4		0			0	0	sm'h	se.	clear.
Bk. Orpheus, N. 40° 00', W. 73° 06'	29.89	759.2	76	24.4		calm			0		0			0	0	sm'h		clear.
Bk. Ottawa, N. 56° 15', E. 16° 55'	29.84	757.9	55	12.8		nne.			7		6		n.	6 h'r	6 h'r	short	ene.	fair.
S. Paramita, N. 33° 56', W. 39° 45'†	30.40	772.1	83	28.3		ene.			1		0			0	0	long	wnw	clear
S. S. Raleigh, N. 27° 10', W. 73° 30'†	30.07	763.8	85	29.4		s.			2		0			0	0	sm'h		clear.
S. Rudolph, N. 45° 32', W. 29° 05'			61.0	16.1		wnw.			4		9		var.	3 h'r	3 h'r	mod.	var.	rainy.
Bg. Rising Sun, N. 18° 20', W. 63° 30' †	30.11	764.8	85	29.4		e.			4		1		e.	0	0	mod.	e.	
Bk. Rosino, N. 36° 14', W. 6° 57'			71	21.7		ese.			6		0			0	0	low	e.	clear.
Bk. Saga, N. 40° 18', W. 71° 23'*†	29.97	761.1	68	20 0							1		sw.	0	0	sm'h	ese.	foggy.
Bk. Sunbeam, N. 41° 25', W. 24° 32' †	30.30	769.6	66	18.9	84	ssw.			4		0			0	0	sm'h		clear.
Bk. Southern Belle, N. 24° 12', W. 58° 15'†	30.24	768.1	80	26.7		e.			3		2		e.	0	0	long	se.	clear.
S. Sovereign of the Seas, N. 14° 00', W. 33° 00' *†	30.20	767.1	80	26.7	82	ene.			4		4		ene.	2 h'r	2 h'r	long	ene.	clear.
Bg. Teneriffe, N. 41° 10', W. 56° 40' *	29.93	760.2				ssw.			5		5		ssw.	0	0	mod.		
Bk. Tuck Sing, N. 24° 36', W. 80° 30' *†	30.06	763.5				e.			2		0			0	0	sm'h		clear.
Schr. Viola Reppard, Bath, Me †	29.93	760.2	68	20.0		calm			0		0			0	0			clear.
Bkt. Wandering Jew, Matanzas, Cuba, W. I *†	30.10	764.5	81	27.2		calm			0		5		calm	0	0			fair.
Bgt. Sunlight, N. 21° 04', W. 54° 30'						e.			4		4		ese.	0	0	mod.	se.	fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay†	30.10	764.5	53	11.7	100	sse.			7		10					5	sse.	raining.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.38	771.6	60	15.6		calm			0		10							foggy.
H. M. S. Sylvia, Montevideo, Uruguay	30.06	763.5	51	10.6	100	s.			4-6		10							misty.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.04	763.0	53	11.7	93	s.	20	8.9			10		s.	0.39	9.9	mod.	s.	raining.
U. S. S Galena, Montevideo, Uruguay*	30.05	763.3	52	11.1	100	sse.			6		10		sse.			r'gh	sse.	rainy.
S. Annie M. Law, S. 34° 17', E. 16° 07' *†	30.34	770.6	59	15.0		ese.			1		0			0	0	long	wsw.	clear.
S. David Stewart, S. 7° 30', W. 33° 22' †	29.91	759.7				ese.			5		0			0	0	mod.	ese.	clear.
S. Wm. McGilvery, S. 47° 24', W. 64° 39' *†	29.95	760.7	49	9.4	85	n.			0		9		n.	0	0	mod.	n.	
S. S. Olbers, Rio de Janeiro, Brazil †	30.31	769.9	80	26.7	66	nne.			2					0	0	sm'h		fine.
Bk. Achille F, S. 35° —', W. 51° 30' †	30.01	762.2	62	16.7	88	ene.			6		10		ne.	16 h'r	16 h'r	h'vy	e.	squally.
Bk. Alpheus Marshall, S. 6° 40', W. 27° 43' *†	29.92	760.0				ese.			3		3		ese.	0	0			clear.
Bk. Ceylon, S. 8° 43', W. 16° 15' *†	30.19	766.8	83	28.3	83	se.			4		1		se.	0	0	mod.	se.	clear.
Bk. Gray Eagle, S. 20° 49', W. 32° 48' *†	30.15	765.8				se.			3		5		ssw.	0	0	long	ssw.	fair.
H. P. M. S. Douro, S. 3° 18', E. 10° 42'	30.02	762.6	73.4	23.0	83	ssw.			4		3			0	0	3	ssw.	d. clouds.
H. P. M. S. Duque de Terceira, S. 9° 18', E. 12° 53'	30.05	763.2	74.5	23.6	73	w.			2		0			0	0	1		blue sky
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.76	755.9	75	23.9	77	s.			1		1	se.						blue sky.
H. M. S. Champion, Sulu Island, Oceania	29.77	756.1	83	28.3	83	w.			1		10	w.				1	nne.	d. clouds.
H. M. S. Espiegle, N. 5° 31', E. 169° 00'	29.88	758.9	82	27.8	87	ne.			2		4					1	ne.	showery
H. M. S. Flying Fish, N. 37° 34', E. 121° 26'	29.76	755.9	76	24.4	91	calm			0		9							d. clouds.
H. M. S. Magpie, N. 6° 08', E. 118° 01'	29.85	758.2	80.8	27.1	87	sse.			2		2							d. clouds.
H. M. S. Sheldrake, N. 0° 44', E. 104° 23'			80	26.7		sse.			2		3							d. clouds.
H. M. S. Zephyr, N. 35° 27', E. 139° 39'	29.84	757.9	72	22.2	90	calm			0		2							d. clouds
H. P. M. S. Tamega, Macao, China	29.87	758.8	85.6	29.8	74	e.			3		2			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.95	760.7	69.5	20.8	87	sw.			1		8		w.	0	0			cloudy.
U. S. S. Adams, Wrangle, Alaska †	29.51	749.5	50	10.0	100	ne.			6		10		ne.			sm'h		threatening.
H. M. S. Essex, Honolulu Sandwich Ids	30.07	763.8	78	25.6	73	ne.			4		2		ne.			sm'h		clear.
U. S. S. Hartford, N. 13° 00', W. 158° 59'*	29.87	758.7	78	25.6	86	ene.			0		5		var.	0	0	mod.	var.	fair.
U. S. S. Monocacy, Salee river, Corea	29.81	757.2	71	21.7	75	wsw.			1		2		calm					misty.
U. S. S. Palos, Hong Kong, China	29.79	756.7	86	30.0	68	calm			0		8		calm					cloudy.
U. S. S. Richmond, Shanghai, China *	29.65	753.1	83	28.3	91	se.			1		5		se.	0	0			fair.
S. S. Coptic, N. 35° 26', E. 140° 54'	29.87	758.7	72.5	22.5	74	nw.			1		3		nw.	0	0	sm'h	nw.	clear.
S. S. Oceanic, N. 43° 24', W. 144° 05'	29.86	758.4	56	13.3	87	sw.			6		10		sw.			light	nw.	overcast.
S. S. Oregon, San Francisco, Cal†	30.04	763.0	53	11.7	93	calm			0		8		nw.					cloudy.
S. S. Willamette, Fuca Strait, Alaska†	30.20	767.1	52	11.1	93	wnw.			1		6		w.	0	0			fair.
S. S. Ancon, San Francisco, Cal†	30.02	762.5	51	10.6	93	sw.			3		5		sw.					fair.
S. S. City of Chester, Hookton, Cal†	30.16	766.1	49	9.4	93	calm			0		0							clear
S. S. Dakota, Port Townsend, Wash. Ter†	30.10	764.5	52	11.1	79	nw.			3		10		nw.			sm'h		cloudy.
S. S. Queen of the Pacific, San Francisco, Cal.†	30.05	763.3	49	9.4		sw.			2		10			0	0			overcast.
S. S. City of Pekin, N. 46° 45', W. 161° 30' †	29.93	760.2	45	7.2	100	w.			0		10		wnw.	0	0	r'gh	nw.	overcast.
S. S. City of Rio de Janeiro, Hong Kong, China †	29.94	760.5	87	30.6	62	s.			1		0			0	0	sm'h		clear.
S. S. Colima, Panama, Panama†	29.95	760.7	76	24.4	91	ne.			2		4		nw.	0	0			fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. San Blas, N. 18° 40′, W. 103° 58	.....	.....	82	27.8	.....	wnw.	.....	.....	3	.....	6	.....	nw.	1 h'r	1 h'r	large	s.	fair.
S. S. San José, N. 19° 29′, W. 105° 19′ †	29.94	760.5	79	26.1	.....	wnw.	.....	.....	2	.....	5	.....	wsw.	1 h'r	1 h'r	long	wsw.	fair.
S. S. Beniedi, N. 32° — E. 127° — *	29.79	756.7	77	25.0	95	s.	.....	.....	2–3	.....	7	.....	ssw.	3 h'r	3 h'r	sm'h	.....	fair.
S. S. Radnorshire, Shanghai, China *†	29.80	756.9	.....	.....	.....	e.	.....	.....	3	.....	10	.....	se.	0	0	.....	.....	squally.
S. Sacramento. Zebu, Philippine Islands*†	29.93	760.2	84	28.9	71	ne.	.....	.....	1	.....	6	.....	ne.	3 h'r	3 h'r	sm'h	.....	fair.
S. St. David, N. 25° 40′, E. 130° 27′ *†	29.96	761.0	84.3	29.1	91	ssw.	.....	.....	1	.....	2	.....	ssw.	0	0	.....	.....	clear
Bk. Xenia, N. 29° 22′, E. 122° 39′ *†	.....	.....	79	26.1	.....	ssw.	.....	.....	6	.....	1	.....	calm	0	0	mod	ssw.	clear.
H. M. S. Sappho, N. 32° 03′, W. 117° 04′	29.97	761.2	64	17.8	94	n.	.....	.....	3	.....	6	nnw.	.....	.....	.....	4	nnw.	misty.
U. S. S. Ranger, N. 13° 04′, W. 88° 28	29.95	760.7	81	27.2	83	calm	.....	.....	0	.....	8	.....	calm	0.02	0.5	long	ssw.	cloudy.
S. Henry Failing, Wilmington, Cal†	29.76	755.9	64	17.8	.....	ene.	.....	.....	1	.....	fg.	.....	.....	0	0	sm'h	se.	
S. Grecian, Yokohama, Japan †	29.89	759.2	74	23.3	76	sw.	.....	.....	1	.....	9	.....	sw.	0	0	.....	.....	cloudy.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W	.....	.....	58	14.4	94	calm	.....	.....	0	.....	2	nw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Kingfisher, S. 39° 27′, W. 94° 21′	29.59	751.6	50	10.0	.....	ssw.	.....	.....	6–7	.....	7	.....	.....	.....	.....	9	ssw.	showery.
H. M. S. Nelson, Souva, Feejee Ids	29.75	755.6	75	23.9	100	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
U. S. S. Iroquois, Valparaiso, Chili	30.15	765.8	51	10.6	93	se.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lackawanna, Callao, Peru*	29.98	761.5	64	17.8	78	sw.	.....	.....	1	.....	10	.....	sw.	.....	.....	.....	.....	cloudy.
U. S. S. Onward, Callao, Peru†	30.12	765.0	62	16.7	88	calm	.....	.....	0	.....	10	.....	s.	.....	.....	.....	.....	cloudy.
U. S. S. Pensacola, Callao, Peru *	29.95	760.7	63	17.2	83	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	misty.
U. S. S. Wachusetts, Noukahiva, Marquesas Ids	29.95	760.7	80	26.7	82	w	.....	.....	1	.....	5	.....	s.	.....	.....	sm'h	.....	fair.
S. S. Australia, Sydney, N. S. W	29.81	757.2	53	11.7	93	w.	.....	.....	2	.....	1	.....	w.	0	0	.....	.....	clear.
S. S. City of New York, S. 2° 49′. W. 166° 07′†	29.93	760.2	83	28.3	75	ese.	.....	.....	4	.....	0	.....	.....	0	0	mod.	ese.	clear.
S. S. City of Sydney, S. 20° 12′, E. 173° 00′ *†	29.98	761.5	78	25.6	100	e.	.....	.....	6	8 c	0	e.	.....	.....	.....	r'gh	ene.	cloudy.
H. M. S. Lark. S. 7° 09′, E. 155° 47′	29.91	759.7	82.3	27.9	85	se.	.....	.....	4	.....	7	.....	.....	.....	.....	1	se.	d. clouds
S. Parker M. Whitmore, S 24° 10′, W. 105° 30′ *†	30.27	768.8	71	21.7	.....	calm	.....	.....	0	.....	10	.....	s.	0	0	long	ssw.	cloudy.
S. Storm King, S. 12° 36′ W. 103° 07′ †	30.10	764.5	.....	.....	.....	ese.	.....	.....	5	.....	1	.....	se.	0	0	sm'h	se.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.04	763.0	80	26.7	.....	sse.	.....	.....	4	.....	3	sse.	.....	.....	.....	4	sse.	d. clouds.
U. S. S. Enterprise, S. 18° 48′ E. 43° 36′ *	30.16	766.1	78	25.6	82	s.	.....	.....	4	.....	2	.....	calm	.....	.....	sm'h	.....	clear.
J. S. S. Juniata, N. 6° 48′, E. 82° 02′	29.77	756.1	82	27.8	96	wnw.	.....	.....	4	.....	8	.....	w.	light	light	sm'h	.....	cloudy.
S. S. Toledo, Suez Canal *†	29.97	761.2	89	31.7	.....	nne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Malabar, N. 6° 00′, E. 78° 01′ *†	29.84	757.9	.....	.....	.....	sw.	.....	.....	7	.....	2	.....	sw.	0	0	hv'y	sw.	clear.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 24. 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.07	763.8	73.4	23.0	87	se.			1		0			0	0	clear	Malaterre.
Algiers			30.08	764.1	70.9	21.6	77	ne.			3		4			0	0	cloudy	Thève.
La Galle			30.08	764.0															Fonfrède.
Tunis			30.07	763.8															Jacques.
Saida			30.03	762.8															Pérès.
Tebessa			30.09	764.2	89.6	32.0	24	n.			1		1			0	0	very fair	St. Martin.
Geriville					92.3	33.5	4	sw.			1		4			0	0	cloudy	Forfert.
Laghouat			30.01	762.2	91.4	33.0	22	e.			2		0			0	0	clear	Abraham.
Biskra			30.05	763.2	83.1	28.4	40	se.			1		4			0	0	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			30.25	768.3	51.5	10.9	86	n.	9	4.0			3 ks			0	0	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.01	762.2	30.10	764.5	54.0	12.2	76	nw.	18	8.0			8			0.32	8.1	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.90	759.4	72.7	22.6	35	w.			2		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.06	738.1	29.82	757.5	54.0	12.2	91		12.5	5.6			10			0.681	17.3	raining	Dr. Wierzbiski
Eperies	28.89	733.8	29.75	755.7	58.3	14.6	72	nw.			2		10 ks		se.	0.138	3.5		Julius Mikolik.
Gratz	28.69	728.6	29.89	759.2	71.4	21.9	66	nw.			4		3			0	0		Andreas Rospini.
Hermannstadt	28.35	720.2	29.73	755.2	66.6	19.2	50	nw.			4		10			0.051	1.3		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.68	728.4	29.98	761.6	65.7	18.7	50	w.			3		8			0	0	heavy cl'ds.	The Staff.
Lemberg	28.68	728.4	29.64	752 9	56.7	13.7	87	nw.			5		10			0.913	23.2		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.84	757.8	29.95	760.6	70.7	21.5	85	s.			2		0			0	0		I. R.Hydrographic Office.
Szathmar	29.29	744.0	29.74	755.3	59.7	15.4	96	n.			4		10			0.008	0.2		Joseph Midlinszky, S. J.
Szegedin	29.56	750.7	29.83	757.6	63.3	17.4	92	n.			4		10			0	0		Karl Stancek.
Trieste	29.86	758.4	29.96	760.9	73.0	22.8	46	w.			1		1			0	0		Royal Academy.
Vienna	29.23	742.5	29.93	760.2	65.5	18.6	49	nw.			4		10			0.063	1.6	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.80	756.9	29.90	759.4	58.6	14.8	77	se.	10	4.5			6			0.065	1.6	d. clouds	W. Boswell.
Armagh, Observatory	29.55	750.6	29.78	756.4	58.1	14.5	76	se.	14	6.3									S. Call.
Bidston, Liverpool Obs'y			29.83	757.7	63.8	17.7	91	se.	18	8.0			10					raining	John Hartnup.
Bolton, Sharples	29.32	744.7	29.85	758.2	61 9	16.6	86	s.	12	5.4			10					overcast	Thomas Mackereth.
Bradford, Yorkshire																0.14	3.6		McLandsborough&Preston.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.9	75	ne.			3		3					d. clouds	Corpl. W. I. Cull, A.H.C
Cardington	29.84	757.9	29.94	760.5	70.6	21.4	64	sw.			1.0		8					overcast	John McLaren.
Chatham, School M. E.	29.84	757.9	29.97	761.2	69.3	20.7	68	sw.			2		6			blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.67	753.6	29.90	759.4	58.9	14.9	91	s.			1		10					raining	The Staff.
Fort Napier, Natal	28.00	711.2	30.23	767.8	71.0	21.7	51	ne.			1		1					blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.67	753.6	29.90	759.4	81.0	27.2	87	w.			1		7					raining	J. W. Smith.
Galway, Queen's College	29.67	753.6	29.70	754.4	58	14.4	76	w.			3		6			0.04	1.0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.96	761.0	30.02	762.5	71.8	22.1	86	w.			1		4					d. clouds	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.59	751.6	29.79	756.7	55.4	13.0	77	s			3		10					raining	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.80	756.9	29.96	761.0	69.5	20.8	61	sw.			2		9					overcast	The Staff.
Guernsey	29.67	753.6	29.97	761.2	64.0	17.8	78	ssw.			1		7					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.93	760.2	29.96	761.0	66.9	19.4	70	ssw.	10	4.5			8					d. clouds	The Staff.
Leicester, Museum	29.65	753.1	29.90	759.4	65.0	18.3	78	ssw.			1		10					overcast	J. O. Smith.
Malta, Mediterranean	29.99	761.7	30.06	763.5	74.4	23.6	95	ne.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.07	763.8	30.11	764.8	84.0	28.9	77	s.			1		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.39	746.5	29.91	759.7	63.4	17.4	79	s.			2		10					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.72	754.9	29.95	760.7	62.2	16.8	83	sw.			3		10					showery	The Staff.
Plymouth	29.84	757.9	29.91	759.7	56.4	13.6	97	s.			1		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.77	756.1	29.87	758.7	56.9	13.8	75						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.67	753.6	29.73	755.1	66.6	19.2	80	wsw.			2		10			blank	blank	misty	W. H. Lyne.
Sheffield	29.61	752.1	29.88	758.9	70.0	21.1	92	ssw.			2		8			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.80	756.9	29.83	757.7	61.3	16.3	64	e.			1		10			0.370	9.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	29.84	757.9	29.92	760.0	63	17.2	89	s.			6		10					raining	W. Newcombe.
Valencia, Observatory	29.73	755.1	29.76	755.9	57.1	13.9	74	sw.	23	10.3			6			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Goro, Episcopal Seminary	29.70	754.4	30.10	764.5	76.1	24.5	55	s.	1.9	0.8			2 n		nw.	0	0		Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.94	760.5	29.98	761.5	57	13.9	97	n.	5	2.2			10 n		calm	0.070	1.8	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.99	761.7	30.05	763.3	61	16.1	90	se.	5	2.2			10 n		se.	0	0	cloudy.	G. A. Blair.
Cornwall, Ontario	29.76	755.9	29.95	760.7	66.6	19.2	74	w.			2	6 cs	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.96	761.0	30.01	762.2	61.5	16.4		w.			1		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	29.96	761.0	29.98	761.5	59	15.0	87	calm	0	0			fg.			0	0	foggy	J. McWilliams.
Fort Garry, Manitoba*	29.32	744.7	30.17	766.3	45	7.2	96	ne.	5	2.2		2 c	8 k	w.	n.	0	0	cloudy	James Stewart.
Fredericton, N. B.	29.99	761.7	30.05	763.3	63.8	17.7	84	n.	1	0.4			10 s			0	0	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.90	734.0	29.96	761.0	66.0	18.9	84	calm	0	0		0	0		n.	0	0	fine	Jas. Grant.
Halifax, N. S*	29.87	758 7	30.00	762.0	63	17.2	87	nw.	5	2.2		10 k	0	n.		0.022	0.6	cloudy.	A. Allison.
Hamilton, Ontario	29.49	749.0	29.87	758.7	69.9	21.1	89	sw.			1	c	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.66	753.4	29.98	761.5	64	17.8	81	sw.	4	1.8		5 c	2 s	calm	calm	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.96	761.0	30.00	762.0	61.0	16.1	85	s.			3		fg.			0.32	8.1	foggy	C. H. Rigby.
London, Ontario	29.09	738.9	29.96	761.0	67.7	19.8	77	calm					10 ks			0	0	overcast	E. B. Reed.
Montreal, Quebec*	29.76	755.9	29.96	761.0	70	21.1	90	sw.	12	5.4		2 k	0	sw.		0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.72	754.9	29.95	760.7	67.2	19.6		sw.			2	7 c	0			0	0	fair	A. McGill, M. A.
Parry Sound, Ontario*	29.17	740.9	29.83	757.7	70	21.1	84	s.	5	2.2		2 k	2 ks	sw.	sw.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.23	742.4	29.93	760.2	71	21.7	75	w.			1	2 c	0	w.		0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.29	744.0	29.96	761.0	64	17.8	94	calm	0	0			10 cs			0	0	cloudy	H Morgan.
Port Stanley, Ontario	29.32	744.7	29.94	760.5	67	19.4	78	e.	2	0.9		0	8 ks		sw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.63	752.6	29.97	761.2	69	20.6	90	calm	0	0		5 c	0			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.49	749.0	29.96	761.0	61	16.1	84	calm	0	0		8 c	0	w.		0	0	fair	W. H. McIntyre.
St. Andrews, N. B.	29.94	760.5	29.99	761.7	58	14.4	100	se.	1	0.4			fg			0	0	foggy	
St. John, N. B	29.85	758.2	30.01	762.2	57.0	13.9	100	e.	1	0.4			10 s			0	0	overcast	G. Murdock, C. E.
Saint John's, N. F.	29.71	754.6	29.96	761.0	55	12.8	93	sw.			1		10 n			0.40	10.2	heavy rain	J. Higgins.
St. Pierre, N. F.			29.88	758.9	59.0	15.0		ne.			4					0	0		The Commandant.
Saugeen, Ontario*	29.22	742.2	29.91	759.7	65	18.3	93	sw.	12	5.4			10 ks			0.06	1.5	cloudy	
Stratford, Ontario	28.70	729.0	29.94	760.5	36.7	18.7	79	sw.	6	2.7		3 c;cs	0	sw.		0	0	d. clouds	J. J. Macgregor, M A.
Sydney, C. B*	29.92	760.0	29.98	761.5	52	11.1	100	n.	6	2.7			10 n			0.39	9.9	overcast	T. C. Hill, C. E.
Toronto, Ontario*	29.61	752.1	29.98	761.5	67	19.4	76	calm	0	0		2 c	hz.			0	0	fair	Magnetic Observatory.
Windsor, N. S	29.90	759.4	30.00	762.0	64.0	17.8	86	nw.	4	1.8		0	9 ks			0	0	d. clouds	Prof. W. B. Butler, M.A.
Woodstock, Ontario	28.93	734.8	29.94	760.5	70.6	21.4	68	s.	14	6.3		7 c	0	w.		0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.94	760.5	30.00	762.0	59	15.0	93	calm	0	0		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	30.23	767.8	30.26	768.6	64.0	17.8	82	ene.	4.6	2.1		1 c	0			0	0	fine	John Duthie
Springbok Fontein	28.08	713.2			67	19.4	29	e.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.56	750.8	29.67	753.6	87.4	30.8	50	w.			2		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.71	754.7	29.74	755.3	78.8	26.0	87	wnw.	0.8	0.3			10			0.217	5.5	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.93	760.2	29.98	761.4	67.6	19.8	57	nne.	9	4			3						Oversergent Fischer.
Fanoe	30.02	762.5	30.04	763.0	66.7	19.3	55	w.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.89	759.2	29.93	760.3	37.2	2.9	96	s.			4		10					raining	S. Kleinschmidt.
Jacobshavn, Greenland	29.70	754.3	29.74	755.5	35.2	1.8		calm			0		10					raining	
Stykkisholm, Iceland	29.96	760.9	30.00	762.0	45.7	7.6	85	ne.			6		8						A. O. Thorlacius.
Thorshavn	29.83	757.7	29.85	758.3	50.5	10.3	100	s.	7	3			10					foggy	Overloerer Bergh.
Vestervig	29.97	761.3	30.06	763.6	60.1	15.6	67	nnw.			2		1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.72	755.0			99.9	37.7		nnw.	4.0	1.8		0	0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.51	749.6	30.14	765.5	75.2	24	74	calm			0		kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.41	747.1	29.97	761.1	69.1	20.6	80	s.			1		k			0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.92	759.9	30.00	761.9	80.6	27	43	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.47	748.6	30.02	762.5	67.1	19.5	80	sse.			1		5			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.74	755.5	30.00	762.0	74.5	23.6	55	e.			1		8		ssw.	0.055	1.4	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.12	739.6	29.98	761.5	76.1	24.5	46	ne.			1	0	0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.69	754.0	29.93	760.2	77.4	25.2	47	se.			1		8			0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.41	747.0	29.93	760.2	78.8	26	42	se.			4		1		se.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.74	755.5	29.98	761.6	63.7	17.6	76	sw.			3		9		sw.	0.020	0.5		M. de Kermarrec, Dir.
Caen, Normal School	29.85	758.2	29.92	760.0	75.2	24	59	se.			1		5		se.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.68	753.8	29.99	761.7	75.7	24.3	65	s.			1		5		sw.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.52	749.9	30.02	762.4	75.7	24.2	72	sse.			1		5			0	0	½ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.65	727.7	29.94	760.4	78.8	26.0	42	ne			1	0	1 k			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.17	741.0	30.00	761.9	75.2	24	53	n.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.4	30.02	762.5	69.8	21	54	w.			1		kn	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.49	698.3	29.93	760.2	76.6	24.8	29	sw.			1	0	0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.90	734.0	29.99	761.8	79.5	26.4	37	nw.			2		2		nw	0	0		M. Kina, Director.
Grenoble, Normal School	29.23	742.4	29.98	761.5	75.6	24.2	53	ssw.			1	0	2 k			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.44	722.4	29.94	760.4	74.1	23.4	56	sw.			1	0	8 kn		sw.	0	0	very cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.76	755.9	30.03	762.7	68.0	20	67	sse.					k		sse.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.38	746.2	29.92	759.9	79.5	26.4	58	nne.			1	1 c	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.90	759.4	30.00	762.0	66.6	19.2	70	sw.			2		10	sw.	s.	0.024	0.6	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.96	735.6	29.98	761.5	77.2	25.1	44	ene.			1		0			0	0	clear	M. André, Director.
Mans, Normal School	29.68	753.8	29.97	761.3	74.7	23.7	64	sse.			1		2		ssw.	0.020	0.5	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.74	755.3	30.00	762.0	72.9	22.7	53	w.			1		2		wsw.	0	0		M. Stephan, Director.
Montlouis	24.91	632.6	29.75	755.6	68.0	20.0	32	sw.	13.0	5.8			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.84	758.0	29.97	761.1	80.6	27	66	ssw.			1		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.25	742.9	30.01	762.3	70.2	21.2	58	nnw.			1		kn			0	0		M. Hasse, Director.
Nantes, Observatory	29.84	757.9	30.00	762.0	76.1	24.5	51	wsw.			0–1	c; ck	5 k	wsw.	sw.	0.031	0.8		M. Larocque, Director.
Perpignan, Observatory	29.88	758.9	29.98	761.6	72.9	22.7	67	ne.	11.2	5.0			1			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.36	542.4			47.3	8.5		sw.			2		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.94	735.1	29.96	761.0	77.5	25.3	45	n.			3	1 c	0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.7			56.8	13.8	78	se.			2		2			0	0	¼ covered	M. Alluard.
Rochefort, Naval Obs'y	29.95	760.7	29.98	761.5	78.8	26.0	55	calm			0		0			0.94	24.	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.74	755.3	29.95	760.7	70.9	21 6	63	sw.			1		2		e.	0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.90	708.7	29.96	760.9	75.4	24.1		nw.			3		k			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.94	760.5	29.99	761.7	73.8	23.2	59	sse.			2		5	sse.		0.134	3.4	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.85	758.1	30.01	762.2	74.1	23.4	47	se.			1		5		s.	0.031	0.8		M. Renou, Director.
Toulouse, Observatory	29.30	744.2	30.02	762.6	77.2	25.1	62	se.			1		2	w.		0	0	slightly cl'dy	M. Bailland, Director.
Tours	29.78	756.5	29.92	760.0	71.6	22.0	58	ese.			1		2	s.	s.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.51	749.6	30.01	762.2	74.5	23.6	43	sw.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.82	757.3	29.97	761.1	75.9	24.4	72	w.	9.8	4.4		c	6 k	w.	sse.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.61	726.6	30.00	762.0	71.6	22.0	50	nw.			4		5	nw.		0	0		Prof. Jaedt.
Bamberg	29.18	741.1	30.02	762.5	68.9	20.5	55	ne.			3	0	4 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.73	755.1	29.87	758.6	69.8	21.0	37	nw.			3		3			0.051	1.3		Dr. Sensch.
Breslau	29.41	747.0	29.94	760.4	54.1	12.3	83	wnw.			4		10			0.165	4.2		Royal University Obs'y.
Carlsruhe	29.58	751.4	30.03	762.7	74.3	23.5	44	s.			1		5	n.		0	0		Albert Senz.
Cassel	29.33	745.0	30.04	763.1	70.5	21.4	52	w.			1		8	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.00	762.0	73.8	23.2	51	e.			1		5			0	0		Physical Society.
Friedrichshafen	28.64	727.4	30.00	762 0	71.2	21.8	56	sw.			2		3	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.92	760.0	30.01	762.3	70.7	21.5	57	nnw.			3		4			0	0		E. Preller.
Kiel	30.01	762.2	30.02	762.6	64.8	18.2	40	nne.			2		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.3	29.98	761.6	71.1	21.7	38	nw.			2		7	nw.		0	0		H. Leppig, Asst.
Magdeburg	29.82	757.3	30.00	762.0	68.4	20.2	48	wnw.			2		7	n.		0	0		Weather Observatory
Memel	29.79	756.7	29.84	757.9	62.2	16.8	76	ne.			3		10 ks						Issermann.
Munich	28.25	717.6	30.12	765.0	65.1	18.4	55	ne.			2		8	w.		0	0		Central Station.
Neufahrwasser	29.82	757.5	29.84	757.9	56.5	13.6	88	n.			3		4			0.031	0.8		A. Lothes.
Neustadt, Palatinate	29.53	750.0	30.06	763.4	72.5	22.5	61	w.			1		6			0	0		Dicknether.
Stuttgart	29.08	738.5	29.94	760.4	71.6	22.0	47	w.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.02	762.6	30.05	763.3	63.3	17.4	79	nw.			3	0	5 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.47	748.6	29.84	758.0	78.6	25.9		s.			2.0		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.49	749.0	29.54	750.2	90.8	32.7	68	wsw.	22.0	9.8			6		wsw.	0	0	d. clouds	
Deesa	29.04	737.6	29.49	749.1	101.3	38.5	37	sse.	4.0	1.8			2	sse.		0	0	d. clouds	
Bombay	29.54	750.3	29.58	751.3	82.0	27.8	83	s.	38.0	17.0			10	s.	s.	0.09	2.3	overcast	
Poona, Yurrowda	27.78	705.5	29.64	752.8	72.8	22.7	93	wnw.	9.0	4.0			10			1.02	25.9	overcast	
Trichinopoly	29.50	749.2	29.77	756.2	86.9	30.5	53	sw.	2.0	0.9			10	ne.	ne.	0.02	0.5	overcast	
Belgaum	27.16	689.8	29.71	754.6	69.8	21.0	94	ssw.	11.0	4.9			10	s.		0.24	6.1	d. clouds	
Lahore	28.68	728.4	29.37	745.9	110.3	43.5	17	wsw.	8.0	3.6			0			0	0	blue sky	
Roorkee	28.62	727.0	29.51	749.6	79.8	26.6	74	e.	9.0	4.0			10	e.		0	0	thunder	
Agra	28.90	734.0	29.43	747.5	106.1	41.2	28	nw.	2.0	0.9			1		nw.	0	0	d. clouds	
Nagpur	28.52	724.5	29.54	750.3	88.1	31.2	59	ese.	2.0	0.9			5		w.	0.87	22.1	d. clouds	
Jubbulpore	28.21	716.6	29.55	750.6	82.6	28.1	66	se.	6.0	2.7			10		se.	0.18	4.6	overcast	
Lucknow	29.09	738.9	29.45	748.1	94.0	34.4	54	ene.	4.0	1.8			3	sse.		0	0	d. clouds	
Allahabad	29.17	740.9	29.47	748.5	97.0	36.1	48	ene.	8.0	3.6			3			0	0	d. clouds	
Patna	29.37	745.9	29.55	750.5	90.2	32.3	67	e.	4.5	2.0			8	e.	e.	0	0	d. clouds	
Hazaribagh	27.60	701.0	29.58	751.4	81.3	27.4	73	calm	6.9	3.1			10			0	0	thunder	
Cuttack	29.55	750.6	29.03	752.6	86.9	30.5	69	w.	3.0	1.3			8			0	0	d. clouds	
Calcutta, Allpore	29.61	752.0	29.63	752.5	86.7	30.4	76	sse.	10.0	4.5			8		s.	0.09	2.3	d. clouds	
Dhubri	29.53	750.1	29.65	753.1	79.5	26.4	91	calm	1.0	0.4			9			0	0	d. clouds	
Chittagong	29.63	752.7	29.72	755.0	81.7	27.6	84	ssw.	2.6	1.2			5			0	0	d. clouds	
Sibsagar	29.32	744.7	29.65	753.2	82.2	27.9	84	sw.	2.0	0.9			10	sw.	sw.	0.50	12.7	d. clouds	
Jeypore	28.10	713.6	29.48	748.8	96.7	35.9	46	e.	2.5	1.1			7		e.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.07	763.8	30.09	764.4	82.7	28.2	46	ssw.	13.6	6.1			3	se		0	0	d. clouds	
Bellary	28 18	715.8			87.0	30.6	49	nw.	10	4.5		6 ck	4			0	0	gloomy	
ITALIAN.																			
Udine	29.55	750.5	29.95	760.6	75.2	24.0	47	sw.	1.8	0.8			1			0	0		Prof. Giovanni Clodig.
Milan	29.47	748.4	29.97	761.1	77.5	25.3	22	s.	5.6	2.5			0			0	0		Prof. G.V.Schiapparelli.
Padua	29.83	757.6	29.93	760.3	76.5	24.7	39	sw.	3.1	1.4			1	wnw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.06	738.0	29.93	760.3	72.5	22.5	44	nw.	2.5	1.1			2			0	0		Prof. F. F. Denza.
Genoa	29.84	758.0	30.03	762.7	70.9	21.6	48	s.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.09	713.4	29.94	760.5	72.3	22.4	52	n.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.91	759.6	29.95	760.8	72.3	22.4	74	se.	8.7	3.9			2			0	0		Prof. Luigi Guidi.
Florence	29.75	755.7	30.00	762.1	73.4	23.0	43	wsw.			2		1			0	0		Prof. Costantino Pittei.
Leghorn	29.91	759 8	30.00	761.9	69.3	20.7	65	w.	1.8	0.8			0			0	0		Prof. P. Monte.
Rome	29.85	758.1	30.02	762.4	78.8	26.0	31	sw.	8.7	3.9			0			0	0		Prof. P. Tacchini.
Lecce	29.72	755.0	29.97	761.2	75.2	24.0	33	n.	15.0	6.7			0			0	0		Prof. C. de Giorgi.
Cosenza	29.13	739.9	29.98	761.5	82.0	27.8	66	wnw.	4.3	1.9			0			0	0		Prof. D. Conti.
Cagliari	29.82	757.4	30.01	762.2	72.0	22.2	56	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.83	757.6	30.07	763.8	72.3	22.4	48	ne.	8.1	3.6			0			0	0		Prof. G. Cacciatore.
Syracuse	29.94	760.4	29.98	761.5	80.6	27.0	46	e.	6.3	2.8			4	nne.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.51	749.6	30.02	762.6	73.9	23.3	64	wsw.	0	0			2	w.		0	0		Prof. F. Brioschi.
Stelvio	22.26	565.4			43.1	6.1	56	e.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.31	566.6			45.0	7.2	67	n.			2		1			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.90	759.4	29.93	760.3	60.6	15.9	85	calm			0	1 ck	0	nw.		0	0	clear	H. Hattori.
Awomori	29.87	758.7	29.91	759.7	57.0	13.9	84	w.	9.5	4.2		0	0			0	0	clear	K. Ogawa.
Hamamatsu	29.82	757.4	29.85	758.1	71.6	22.0	84	calm			0		10 s			0.134	3.4	overcast	Y. Sekigawa.
Kanazawa	29.75	755.5	29.84	758.0	68.8	20.4	82	e.	7.7	3.4			10s;ck			0	0	overcast	S. Endo.
Kagoshima	29.79	756.7	29.80	757.0	75.7	24.3	96	calm			0	0	2 s			0.134	3.4	clear	G. Miyanonaza.
Kioto	29.65	753.2	29.83	757.6	73.2	22.9	80	sse.	3.8	1.7			10 s			0.044	1.1	cloudy	M. Tojima.
Kochi	29.85	758.2	29.87	758.7	65.1	18.4	95	w.	7.3	3.2			10 n			2.21	56.2	raining	K. Kusunose.
Miasaka	29.77	756.2	29.60	756.9	68.6	20.3	96	wnw.			1		10ks;s		w.	0.583	14.8	cloudy	K. Masuzaki.
Miyako	29.76	755.8	29.87	758.6	57.0	13.9	89	wsw.	0.3	0.1		0	0			0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.52	749.8	29.72	754.9	75.6	24.2	96	sw.	10.5	4.6			10 n			2.720	69.1	light rain	S. Takehayashi.
Niigata	29.84	757.9	29.88	758.9	68.2	20.1	66	ene.	5.7	2.5		0	0			0	0	clear	M. Morita.
Nobiru	29.89	759.3	29.91	759.7	61.5	16.4	77	se.	11.7	5.2		0	0			0	0	clear	H. Midzushima.
Numazu	29.82	757.4	29.85	758.3	70.1	21.2	83	nw.			1	10 cs	0			0.012	0.3	cloudy	R. Kaneda.
Osaka	29.82	757 5	29.84	757.9	72.0	22.2	84	w.	3.6	1.6			10 s			0.100	2.5	cloudy	H. Omura.
Sakai	29.80	756.9	29.81	757.1	72.1	22.3	77	ne.			4		10 n		w.	0.047	1.2	raining	K. Yamawchi.
Tokei Obs'y, Yeddo	29.79	756.6	29.86	758.4	70.8	21.6	88	s.	3.5	1.5		0	7 s			0	0	cloudy	The Staff.
Wakayama	29.77	756.2	29.82	757.5	72.5	22.5	80	calm	0	0			10 n			0.196	5.0	cloudy	K. Sakai.
Shimonoseki	29.57	751.0	29.71	754.6	65.3	18.5	98	ene.			4		10 n			4.478	113.8	raining	S. Sakaro.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.05	763.3	72.0	22.2	65	sse.	13.0	5.8		0	6 k;ks		s.	0	0	fair	The Staff.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.0	60.6	15.9	73	nnw.	inap.	inap.		6 cs	0	w.		0	0	fair	Prof. Vicente Fernandez
Leon	24.33	618.0	29 94	760.5	62.6	17.0	76	ne.	2.0	0.9		7 c	1 k	nw.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.68	753.8	29.93	760.3	79.5	26.4	89	ese.	0.9	0.4			8 n		e.	0	0	cloudy	F. Quijano, U. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					79	26.1	91	e.	8.5	3.8		2 ck	0	se.		0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.04	763.1	30.04	763.1	71.6	22.0		ese.			2					0.012	0.3		
Groningen	29.97	761.1	30.02	762.5	68.9	20.5		nw.			1					0	0		
Helder	30.04	762.9	30.04	762.9	64.4	18.0		sw.			1					0	0		
Hellevoetsluis	30.04	763.1	30.04	763.1	75.4	24.1	63	calm			0					0	0		
Utrecht	30.00	762.0	30.05	763.2	71.4	21.9	67	w.			2		8			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.90	759.4			80.4	26.9	74	ne.	1.0	0.4			3			0	0		Lt.J. J. Roptman.
NORWEGIAN.																			
Bergen	29.98	761.4	30.04	763.0	64.8	18.2	65	nnw.	4	2			2			0	0		
Brono	30.08	763.9	30.11	764.9	79.2	26.2	29	se.			2		1			0	0		
Christiania	29.89	759.3	30.03	762.8	76.1	24.5	47	e.	9	4			2			0	0		
Gjæsvær	30.10	764.4	30.12	765.0	68.0	20.0		sw.			2		0						
Lodingen	30.10	764.4	30.14	765.6	72.1	22.3	35	sw.			1		0			0	0		
PORTUGUESE.																			
Angra, Azores	30.07	763.7	30.22	767.7	67.6	19.8	81	nnw.	7.4	3.3			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.02	737.0	29.98	761.5	75.9	24.4	33	wnw.	5.6	2.5			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.13	765.3	30.22	767.6	68.4	20.2	55	sw.	5.6	2.5			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.75	755.7	30.08	764.0	68.4	20.2	49	n.	15.4	6.9			1			0	0		The Staff.
Ponta Delgada, Azores	30.14	765.5	30.21	767.3	68.4	20.2	81	ne.	9.8	4.4			3			0	0		
Saint Paul de Loanda	29.83	757.7	30.03	762.8	74.5	23.6	88	n.			1		2	sse.		0	0		
San Salvador	28.18	715.8	30.04	762.9	72.5	22.5	73	e.			2		10			0	0		
Serra da Estrella	25.33	643.3	29.98	761.6	56.5	13.6	60	wsw.	11.9	5.3			3			0	0		
RUSSIAN.																			
Akmolinski	28.46	722.9	29.43	747.6	95.0	35.0	21	ssw.	9	4		3 ck	0			0	0		Major K. Lasarew.
Archangel	30.34	770.5	30.35	771.0	52.8	11.0	45	nnw.	9	4		0	6 ks			0	0		Capt. Sseliwerstow
Ashurada	29.82	757.3	29.72	754.9	83.1	28.4	71	wnw.	7	3		0	4 k			blank	blank		
Astrakhan	29.67	753.6	29.59	751.5	82.9	28.3	38	wsw.	20	9		0	5 k			0	0		Capt. Wisganow.
Baku	29.71	754.5	29.66	753.3	78.3	25.7	76	s.	22	10		0	0			0	0		
Barnaul	29.23	742.5	29.69	754.1	83.1	28.4	41	s.	9	4			2			0	0	light clouds	Meteorological Obs'y
Bielosersk	29.64	752.8	30.10	764.5	58.6	14.8	48	nne.	16	7		5 cs	0			blank	blank		
Dorpat	29.74	755.5	29.99	761.7	54.0	12.2	94	ne.	16	7			10 n			0.118	3.0	raining	Observatory.
Ekaterinburg	28.78	731.0	29.72	754.9	56.7	13.7	57	nne.	9	4			10			0.264	6.7		Meteorological Obs'y
Elissawetgrad	29.17	740.8	29.59	751.6	77.4	25.2	39	sse.	7	3		0	7 ks			0.378	9.6		
Irkutsk	28.35	720.1	29.93	760.1	68.2	20.1	67	calm			0		4			0	0		
Kasalinsk	29.21	742.0	29.39	746.5	95.4	35.2	53	w.	2	1		0	4 k						
Kasan	29.37	746.0	29.62	752.4	73.9	23.3	42	ne.	31	14		2 0	0			0	0		Observatory.
Kem	30.37	771.5	30.43	772.8	61.2	16.2	59	nw	9	4		0	3 ks			0	0		
Kertch	29.53	750.0	29.55	750.6	74.3	23.5	60	e.	9	4		0	8 n			0.630	16.0		Lagorio & Sastyrea.
Kieff	28.96	735.6	29.57	751.0	69.8	21.0	58	sse.	13	6		ck	8 ks;n			0	0		Observatory.
Koslov	29.02	737.1	29 54	750.2	66.0	18.9	94	ese.	22	10			10 n			1.516	38.5	thnd'r str'm	
Libau	29.84	758.0	29.87	758.6	59.0	15.0	76	ene.	9	4			10			0.028	0.7		E. Quass.
Lugan	29.35	745.5	29.53	750.0	78.8	26.0	35	wsw.	18	8			3			0	0		Meteorological Obs'y.
Moscow	29.24	742.6	29.70	754.4	58.8	14.9	91	ne.	7.8	3.5			10 n			1.595	40.5	light rain	Meteorological Obs'y
Nikolaiev	29.54	750.2	29.61	752.1	74.3	23.5	56	n.	4	2		0	1 k			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.83	757.7	29.92	759.9	51.6	10.9	70	calm	0	0			7			0	0		Iwanow.
Pekin, China	29.47	748.5	29 61	752.1	84.6	29.2	53	se.	2.2	1.0		0	6 ks			0.008	0.2		Physical Observatory.
Petro-Alexandrovsk	29.26	743.2	29.58	751.4	95.7	35.4	19	nw.	4.5	2.0			0			0	0		
Petrozavodsk	30.05	763.2	30.24	768.2	55.4	13.0	45	nne.	27	12		0	1 s			0	0		Dr. Bergmann.
Pinsk	29.06	738.1	29.54	750.4	60.3	15.7	90	e.	18	8			10 n			0.764	19.4		
Poti	29.45	748.1	29.48	748.9	86.4	30.2	61	e.	13	6		0	8 ks			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mils. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
St. Petersburg	30.07	763.8	30.10	764.4	59.9	15.5	47	ene.	18	8	.....	cs	8 n	.....	.....	0.094	2.4	.....	Central Physical Obs'y.
Samarkand	27.29	693.2	29.49	749.0	99.3	37.4	35	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.08	738.6	29.68	753.8	91.6	33.1	24	e.	4	2	.....	.....	0	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.35	745.4	29.57	751.0	65.1	18.4	87	s.	11	5	.....	.....	10 n	.....	.....	1.756	44.6	heavy cl'ds.	
Staroi Bykhov	29.24	742.7	29.68	753.8	75.4	24.1	52	e.	13	6	.....	0	5 kn	.....	.....	0.280	7.1	.....	
Tashkend	28.02	711.7	29.52	749.8	100.4	38.0	27	calm	0	0	.....	2 cs	0	.....	.....	0	0	.....	Terch, A. M.
Tiflis	28.33	719.6	29.66	753.3	82.0	27.8	41	s.	4	2	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.20	690.8	29.48	748.9	91.4	33.0	30	calm	0	0	.....	0	1 k	.....	.....	0	0	.....	
Vlatka	29.25	742.9	29.86	758.5	60.4	15.8	42	nne.	7	3	.....	.....	4	.....	.....	0	0	.....	
Warsaw	29.27	743.5	29.68	753.9	62.4	16.9	79	r.nw.	13	6	.....	.....	9 k	.....	.....	0.327	8.3	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.18	741.2	29.45	748.1	64.9	18.3	98	w.	42	19	.....	.....	10	.....	.....	0.772	19.6	.....	M. O. Marks.
SCOTTISH.																			
Monach Lt	.....	.....	29.76	755.9	57	13.9	94	s.	.....	.....	4	3	0	s.	.....	0.5	13.	d. clouds	J. Youngclause
North Unst	.....	.....	29.96	761.0	.....	.....	.....	se.	.....	.....	6	7	2	se.	.....	.....	.....	.....	Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.7	30.05	763.3	75.2	24.0	53	sw.	5.1	2.3	.....	0	1	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.94	760.4	30.00	761.9	71.1	21.7	69	nw.	2.5	1.1	.....	.....	10	.....	.....	0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.04	686.9	29.86	758.5	76.1	24.5	28	sw	2.5	1.1	.....	0	2	.....	.....	0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.77	705.4	29.87	758.8	84.4	29.1	28	sw.	8.5	3.8	.....	0	7	.....	.....	0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.86	758.4	30.06	763.6	81.0	27.2	50	e.	4.0	1.8	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Oviedo	29.23	742.5	29.99	761.8	58.6	14.8	94	n	4.3	1.9	.....	10 n	6 n	n.	n.	0.028	0.7	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.11	739.5	29.99	761.7	70.7	21 5	57	nw.	3.1	1.4	.....	.....	10	.....	.....	0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.02	762.4	30.08	764.1	80.3	26.8	81	ese.	4.5	2.0	.....	9 ck	0	wnw.	.....	0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.88	759.0	80.5	26.9	94	nne.	0	0	.....	1 c	2 kn	.....	.....	0.142	3.6	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.6	30.08	764.0	71.8	22.1	67	s.	6.8	3.0	.....	0	8	.....	s.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.6	30.11	764.9	81.7	27.6	88	se.	6.3	2.8	.....	1 s	2 k	se.	se.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.32	770.0	30.35	771.0	60.8	16.0	73	s.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Umea	30.23	767.8	30.28	769.1	70.5	21.4	24	se.	.....	.....	6	.....	1	.....	.....	0	0	.....	
Hernosand	30.21	767.4	30.26	768.7	64.4	18.0	65	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	29.94	760.4	30.11	764.9	60.4	15.8	54	ne.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Wisby	29.88	758.9	29.94	760.4	55.4	13.0	82	e.	.....	.....	4	.....	10	.....	.....	0.004	0.1	.....	
Sub-series.																			
Upsala	30.00	762.1	30.09	764.3	65.5	18.6	42	ene.	13.2	5.9	.....	.....	10	.....	e.	0.004	0.1	.....	S. G. Fineman.
SWISS.																			
Geneva	28.62	727.0	30.01	762.2	67.6	19.8	49	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	The Observatory.
TURKISH.																			
Constantinople	.....	.....	29.78	756.3	84.9	29.4	77	nw.	3	1.5	.....	.....	10	.....	nw.	0.925	23.5	.....	The Observatory.
Valona	.....	.....	30.11	764.9	73.8	23.2	.....	nw.	.....	.....	3	.....	2	.....	.....	0.12	3.	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.83	757.7	87.3	30.7	57	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.64	676.6	.....	.....	51	10.6	80	w.	.....	.....	1	.....	.....	.....	.....	0	0	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.96	761.0	30.04	763.0	72.5	22.5	65	w.	1	0.4	.....	0	5 k	.....	nw.	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.25	742.9	29.90	759.4	63	17.2	93	calm	0	0	.....	.....	10 n	.....	.....	inap.	inap.	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	29.84	757.9	62	16.7	56	e.	7	3.1	.....	4 k	0	w.	.....	0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.20	690.9	29.99	761.7	59	15.0	72	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.88	733.5	30.03	762.7	75.0	23.9	79	calm	0	0	.....	7 cs	0	n.	.....	0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	30.02	762.5	30.03	762.7	70	21.1	84	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.86	758.4	30.05	763.3	76.0	24.4	85	se.	2	0.9	.....	4 c	0	.....	.....	0	0	fair	John Healy.
Baltimore, Maryland	29.99	761.7	30.04	763.0	76	24.4	56	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.01	762.2	30.03	762.7	78.0	25.6	69	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. A. Hill.
Behring Id., Behring Sea	30.08	764.0	30.10	764.5	38.4	3.6	89	s.	9	4.0	.....	0	1 s	.....	.....	0.01	0.3	clear	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.52	724.4	30.06	763.5	61.0	16.1	90	se.	3	1.3	.....	2 k	2 k	se.	se.	0.36	9.1	fair	A. Pritchard.
Benton, Fort, Montana	27 19	690 6	29.96	761.0	65	18.3	38	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Billings, Montana	26.82	681.2	29.96	761.0	50	10.0	66	w.	4	1.8	.....	4 k	0	w.	.....	0.03	0.8	fair	T. Gibson.
Bismarck, Dakota	28.30	718.8	30.06	763.5	55	12.8	69	e.	10	4.5	.....	0	9 ks	.....	w.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.98	761.5	30.01	762.2	71.5	21.9	83	w.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	J. T. Elker.
Boise City, Idaho	27.16	689.9	29.94	760.5	58	14.4	.....	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Kenealy.
Boston, Massachusetts	29.86	758.4	30.01	762.2	73.0	22.8	66	w.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	77.0	25.0	85	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Buffalo, New York	29.24	742.7	29.98	761.5	68.5	20.3	66	se.	4	1.8	.....	9 cs	0	sw.	.....	0	0	cloudy	W. Finn.
Buford, Fort, Dakota	28.14	714.7	30.10	764.5	53	11.7	86	ne.	8	3.6	.....	1 k	0	w.	.....	0.01	0.3	clear	A. Schneider.
Burlington, Vermont	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. N. Farnell.
Cairo, Illinois	29.62	752.3	30.01	762.2	79.9	26.6	77	sw.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	W. H. Ray.
Cape Henry, Virginia	30.03	762.7	30.05	763.3	72.0	22.2	84	se.	2	0.9	.....	0	hz	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.00	762.0	30.03	762.7	69.0	20.6	84	se.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	W. E. Smith.
Cape Mendocino, California	29.35	745.5	30.03	762 7	51	10.6	80	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	80	26.7	79	n.	7	3.1	.....	2 c	0	sw.	.....	0.24	6.1	clear	G. W. Davis.
Charleston, S. Carolina	29.97	761.2	30.02	762.5	82	27.8	74	calm	0	0	.....	8 c	0	w.	.....	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.20	741.7	30.03	762.7	76.0	24.4	74	sw.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.22	742.2	30.03	762.7	74.0	23.3	81	n.	2	0.9	.....	4 cs	fg.	.....	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.20	614.7	29.94	760.5	55.6	13.1	88	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.19	741.4	29.88	758.9	64.9	18.3	83	n.	4	1.8	.....	2 ck	0	nw.	.....	0.22	5.6	clear	John Laurens.
Chincoteague, Virginia	30.02	762.5	30.04	763.0	72	22.2	90	s.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.30	744.2	29.95	760.7	74.0	23.3	76	s.	3	1.3	.....	.....	10 ks	.....	w.	0.33	8.4	cloudy	L. Dunne.
Cleveland, Ohio	29.23	742.4	29.96	761.0	68.5	20.3	66	se.	6	2.7	.....	7ck;cs	0	w.	.....	0	0	fair	J. B. Newlin.
Coleman City, Texas	28.23	717.0	29.98	761.5	71	21.7	76	s.	4	1.8	.....	2 c	0	.....	.....	0	0	clear	T. J. Kenan.
Columbus, Ohio	29.10	739.1	29.94	760.5	68	20.0	73	s.	5	2.2	.....	0	9 s	.....	s.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.09	713.5	29.90	761.0	74.2	23.4	69	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Davenport, Iowa	29.26	743.2	29.90	759.4	69	20.6	84	nw.	7	3.1	.....	2 ck	6 ks	nw.	nw.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.23	640.8	29.84	757.9	71	21.7	57	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.31	719.1	30.05	763.3	51	10.6	66	ne.	4	1.8	.....	3 c	0	.....	.....	0	0	clear	D. Moore.
Deadwood, Dakota	25.51	647.9	29.95	760.7	57	13.9	57	ne.	1	0.4	.....	0	0	.....	.....	3.34	84.8	clear	F. Willson.
Delaware Breakwater, Del.	30.03	762.7	30.05	763.3	68	20.0	73	se.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	T. S. Townsend.
Denver, Colorado	24.87	631.7	29.91	759 7	62.5	16.9	63	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.11	739.4	29.99	761.7	61	16.1	84	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.24	742.7	29.93	760.2	69.0	20.6	100	sw.	4	1.8	.....	.....	10 n	.....	.....	0.55	14.0	heavy rain	E. R. Brace.
Dodge City, Kansas	27.38	695.4	29.90	759.4	71	21.7	84	sw.	14	6.3	.....	0	5 ks	.....	w.	0.20	5.1	fair	D. J. Carr.
Dubuque, Iowa	29.23	742.4	29.92	760.0	65	18.3	87	n.	6	2.7	.....	.....	10 s	.....	nw.	0.09	2.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.30	744.2	30.03	762.7	54	12.2	80	ne.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. Belford.
Eagle Rock, Idaho	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. R. Boynton.
Eastport, Maine	29.93	760.2	30.00	762.0	57.0	13.9	93	e.	4	1.8	.....	.....	fg.	.....	e.	0	0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.22	691.4	29.89	759.2	67	19.4	70	calm	0	0	.....	6 c	0	.....	.....	0	0	fair	W. J. Cundall.
El Paso, Texas	26.26	667.0	29.85	758.2	79.0	26.1	46	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.27	743.4	29.99	761.7	68	20.0	70	s.	6	2.7	.....	6 c	0	w.	.....	0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.27	743.4	29.92	760.0	56.0	13.3	90	n.	22	9.8	.....	.....	10 s	.....	n.	1.09	27.7	cloudy	George Heathcote.
Galveston, Texas	29.98	761.5	30.02	762.5	83	28.3	67	s.	3	1.3	.....	2 k	3 ks	.....	s.	0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.22	742.2	29.87	758.7	66.5	19.2	87	e.	8	3.0	.....	.....	10 s	.....	w.	0.71	18.0	cloudy	J. E. Mueller.
Grant, Fort, Arizona	.....	.....	.....	.....	76.8	24.9	20	s.	4	1.8	.....	4 k	0	.....	.....	0	0	fair	Robert O. Lord.
Hatteras, North Carolina	30.02	762.5	30.04	763.0	75	23.9	64	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.88	657.3	30.00	762.0	54	12.2	51	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. W. Dodge.

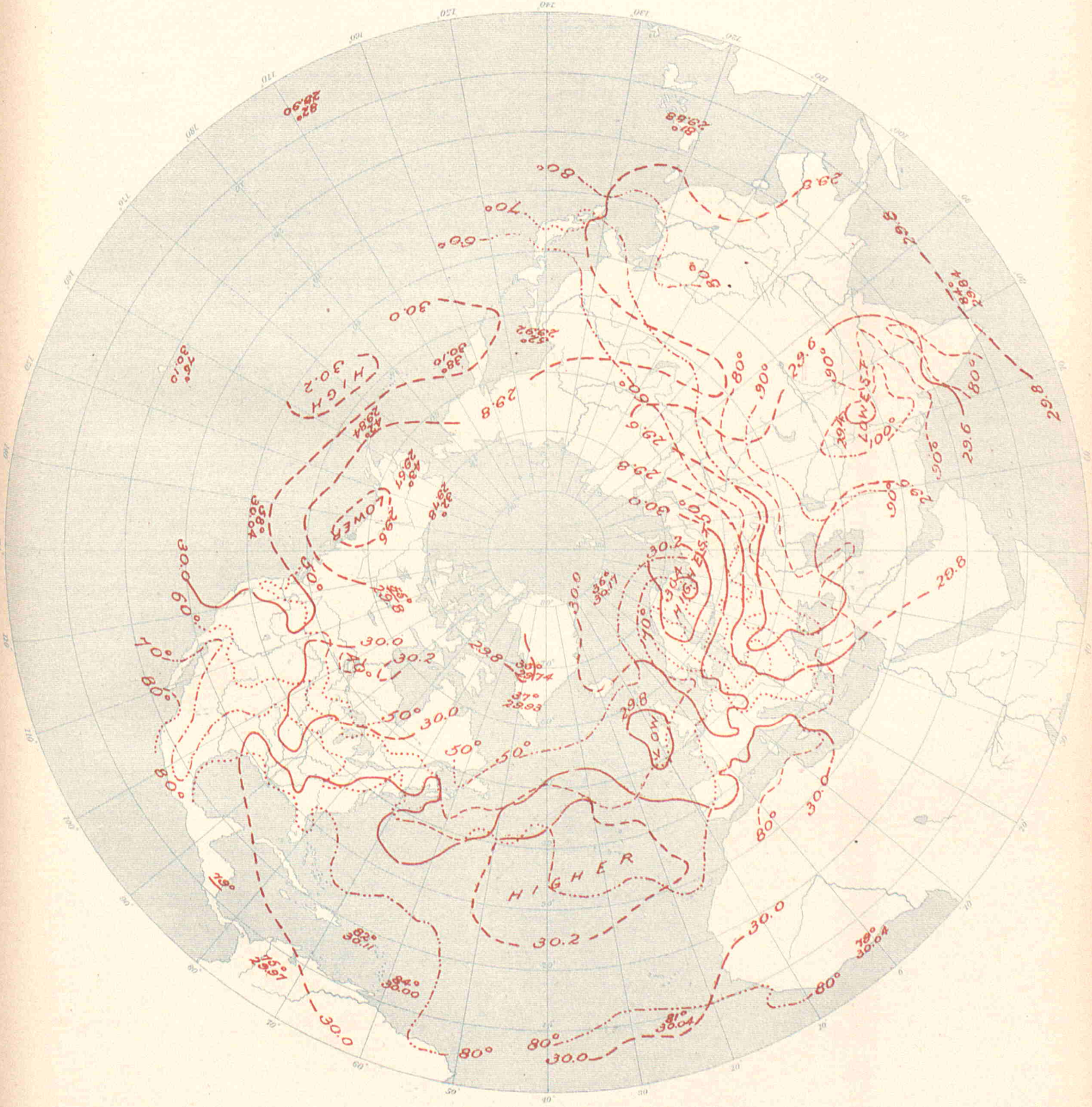
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.76	730.5	30.10	764.5	55.4	13.0	81	ne.	8	3.6	.....	5 k	0	n.	.....	0.02	0.5	fair	S. W. Glenn.
Indianapolis, Indiana	29.12	739.6	29.90	759.4	72.0	22.2	84	s.	3	1.3	.....	4 ck	5 s	w.	s.	0.57	14.5	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.97	761.2	30.00	762.0	79.6	26.4	85	se.	4	1.8	.....	0	2 ks	.....	se.	0	0	clear	I. A. Reed.
Jacksonville Florida	30.01	762.2	30.05	763.3	79.0	26.1	77	sw.	2	0.9	.....	7 cs	0	sw.	.....	0.32	8.1	fair	J. W. Smith.
Keogh, Fort, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Lamar.
Keokuk, Iowa	29.28	743.7	29.92	760.0	73.0	22.8	76	w.	5	2.2	.....	4 k	0	w.	.....	0.13	3.3	fair	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	83.0	28.3	80	calm	0	0	.....	9 cs	1 k	nw.	e.	0	0	cloudy	Lee M. Melbourne.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	74	23.3	64	ne.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	H. Mc P. Baldwin
Knoxville, Tennessee	29.01	736.8	30.02	762.5	68.5	20.3	86	n.	2	0.9	.....	4 c	0	nw.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.19	741.4	29.95	760.7	65	18.3	68	n.	8	3.6	.....	0	0	.....	.....	0.50	12.7	clear	S. C. Emery.
Leavenworth, Kansas	29.18	741.2	30.05	763.3	71	21.7	90	n.	4	1.8	.....	.....	10 n	.....	nw.	0.75	19.0	thund'r st'm	A. W. Browne.
Lewiston, Idaho	29.22	742.2	30.04	763.0	55.5	13.1	74	calm	0	0	.....	2 cs	0	.....	.....	0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.65	753.1	29.96	761.0	79	26.1	82	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.57	751.1	29.96	761.0	54	12.2	80	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.35	745.5	29.90	759.4	73	22.8	84	e.	4	1.8	.....	.....	10 ks	.....	w.	0.10	2.5	cloudy	L. M. Dey.
Lynchburg, Virginia	29.36	745.7	30.03	762.7	74	23.3	59	ne.	1	0.4	.....	4 ck	0	ne.	.....	0	0	fair	Louis Duane.
Mackinaw City, Michigan	29.25	742.9	29.89	759.2	63.5	17.5	75	s.	1	0.4	.....	0	7 ks	.....	.....	0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.04	763.0	30.05	763.3	73.0	22.8	76	n.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.70	652.8	30.03	762.7	70	21.1	32	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.28	743.7	30.00	762.0	47	8.3	93	n.	10	4.5	.....	.....	10 s	.....	n.	0.62	15.7	cloudy	J. Gilligan.
Memphis, Tennessee	29.63	752.6	29.96	761.0	82	27.8	82	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.15	740.4	29.89	759.2	63	17.2	90	nw.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	W. Line.
Missoula, Fort, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Young.
Mobile, Alabama	30.03	762.7	30.07	773.8	76	24.4	85	w.	2	0.9	.....	2 c	0	nw.	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.76	755.9	29.99	761.7	76	24.4	85	calm	0	0	.....	3 ck	0	w.	.....	0.70	17.8	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.16	740.7	30.13	765.3	45	7.2	83	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. White.
Mt. Washington, N. H.	23.99	609.3	30.11	764.8	50.0	10.0	88	se.	4	1.8	.....	3 k	2 s	w.	se.	0	0	fair	S. W. Beall.
Nashville, Tennessee	29.40	746.7	29.96	761.0	78.5	25.8	79	w.	2	0.9	.....	4 ck	0	w.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.90	759.4	30.01	762.2	72	22.2	71	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.97	761.2	30.02	762.5	70	21.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	79.0	26.1	82	s.	1	0.4	.....	4 cs	5 ks	.....	w.	1.23	31.2	cloudy	M. Herman.
New York, New York	29.87	758.7	30.04	763.0	71	21.7	76	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	G. E. Franklin.
Norfolk, Virginia	30.02	762.5	30.05	763.3	79.2	26.2	61	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.22	691.4	30.02	762.5	63.6	17.6	93	n.	8	3.6	.....	0	8 n	.....	nw.	0.60	15.2	light rain	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	46.0	7.8	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.98	736.1	30.12	765.0	62.5	16.9	76	nw.	7	3.1	.....	.....	10 n	.....	e.	0.49	12.4	thund'r st'm	A. Pollak.
Ooglaamie, Alaska	29.76	755.9	29.78	756.4	31.8	— 0.1	100	ene.	32	14.3	.....	.....	10 s	.....	e.	0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	29.67	753.6	29.99	761.7	66.5	19.2	76	s.	9	4.0	.....	5 c	0	w.	.....	0	0	fair	J. G. Linsley.
Palestine, Texas	29.51	749.5	30.05	763.3	78.0	25.6	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Pensacola, Florida	30.03	762.7	30.06	763.5	81.0	27.2	79	sw.	4	1.8	.....	3 cs	0	w.	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	29.95	760.7	30.05	763.3	75	23.9	85	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.15	461.0	29.97	761.2	36	2.2	79	nw.	24	10.7	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pioche, Nevada	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. R. Day.
Pittsburg, Pennsylvania	29.21	741.9	30.00	762.0	63.5	17.5	84	calm	0	0	.....	3 c	0	sw.	.....	0	0	clear	W. A. Reid.
Poplar River, Montana	27.95	709.9	30.05	763.3	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0.04	1.0	clear	W. D. Maxwell.
Port Huron, Michigan	29.23	742.4	29.90	759.4	66.9	19.4	84	s.	7	3.1	.....	.....	10 n	.....	.....	inap.	inap.	light rain	M. H. Perry
Portland, Maine	29.94	760.5	29.99	761.7	69	20.6	66	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger
Portland, Oregon	29.99	761.7	30.06	763.5	51.8	11.0	86	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	73	22.8	82	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.86	631.4	29.88	758.9	56.6	13.7	48	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	Jas Cassidy.
Provincetown, Mass	29.98	761.5	30.02	762.5	71	21.7	73	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Punta Rassa, Florida	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Evans.
Red Bluff, California	29.03	752.6	29.98	761.5	63	17.2	56	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rochester, New York	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. W. McGann.
Roseburg, Oregon	29.53	750.0	30.08	764.0	48	8.9	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.90	759.4	29.97	761.2	57.5	14.2	72	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.36	745.7	29.95	760.7	73.0	22.8	84	w.	6	2.7	.....	1 c;hz	0	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.04	752.8	29.67	753.6	43	6.1	74	n.	8	3.6	.....	0	5 ks	.....	n.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.18	741.2	30.02	762.5	50.0	13.3	69	n.	12	5.4	.....	0	9 s	.....	n.	0.35	8.9	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.29	744.0	30.14	765.5	45	7.2	93	nw.	6	2.7	.....	.....	10s;fg	.....	.....	0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.09	652.5	29.91	759.7	65	18.3	36	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Davis.
San Diego, California	29.85	758.2	29.92	760.0	59.7	15.4	92	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	29.89	759.2	29.92	760.0	71.0	21.7	76	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
Sanford, Florida	30.00	762.0	.....	.....	78.1	25.6	74	ne.	4	1.8	.....	.....	10 ks	.....	ne.	0.21	5.3	cloudy	J. B. Marbury.
San Francisco, California	29.97	761.2	30.04	763.0	52.5	17.4	93	sw.	12	5.4	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. U. Jones.
Savannah, Georgia	29.94	760.5	30.04	763.0	82.5	28.1	80	se.	4	1.8	.....	5 c	0	w.	.....	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	20.42	671.1	29.99	761.7	49	9.4	71	w.	1	0.4	.....	0	0	.....	.....	0.04	1.0	clear	A. L. Mathews.
Shreveport, Louisiana	29.76	755.9	30.00	762.0	76.7	24.8	86	s.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.75	730.2	29.95	760.7	74.5	23.6	81	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.42	747.3	29.48	748.8	49.5	9.7	77	nw.	3	1.3	.....	.....	10 n	.....	nw.	0.25	6.3	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.54	750.3	30.00	762.0	73.5	23.1	84	e.	2	0.9	.....	2 c	0	.....	.....	inap.	inap.	clear	J. B. Campbell.
Smithville North Carolina	30.00	762.0	30.04	763.0	77.5	25.3	76	e	3	1.3	.....	1 c	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.08	713.2	30.12	765.0	52	11.1	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.24	742.7	29.91	759.7	72	22.2	84	w.	10	4.5	.....	1 c	0	w.	.....	0.16	4.1	clear	T. B. Jennings.
Starkville, Miss	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. Dill.
Stockton, Fort, Texas	26.99	685.5	29.91	759.7	70	21.1	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. J. Warren.
Thomas, Camp, Arizona	.....	.....	.....	.....	82	27.8	28	calm	.....	.....	0	3 ck	0	.....	.....	0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.23	742.4	29.91	759.7	70	21.1	79	s.	6	2.7	.....	.....	10 n	.....	sw.	0.32	8.1	light rain	A. Buell.
Tucson, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. L. Whiteside.
Unalaska, Alaska	29.82	757.4	29.84	757.9	42	5.6	74	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	66	18.9	36	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.78	756.4	30.03	762.7	74.5	23.6	90	s.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	O. D. Stewart.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C.	29.95	760.7	30.06	763.5	70.5	21.4	77	calm	0	0	.....	1 c	hz.	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.10	662.9	29.86	758.4	65.4	18.6	65	se.	5	2.2	.....	2 cs	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. F. Hough.
Wilmington, N. Carolina	30.00	762.0	30.05	763.3	77.0	25.0	74	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. Grover.
Yankton, Dakota	28.76	730.5	30.04	763.0	60	15.6	75	ne.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.02	752.3	29.76	755.9	75.9	24.4	86	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.08	764.0	81	27.2	69	n.	1	0.4	.....	0	0	.....	.....	0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.08	764.0	30.09	764.3	79	26.1	82	se.	.....	.....	2	0	3 c	.....	.....	0.530	13.5	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.41	747.0	29.97	761.2	75	23.9	94	calm	.....	.....	0	.....	10 ks	.....	calm	0.53	13.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	79	26.1	91	e	.....	.....	.....	.....	7 ks	.....	ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Aug. Wallon.
York Factory, B. A.	30.15	765.8	30.21	767.3	61.0	16.1	94	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 45° 20′ E. 12° 22′	29.90	759.4	75	23.9	72	nne.			1		1	nnw.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.00	762.0	76.5	24.7	84	ssw.			3		7	ssw.						d. clouds.
H. M. S. Gannet, N. 45° 10′, W. 14° 25′	29.95	760.7	61.5	16.4	66	wnw.			3		8							d. clouds.
H. M. S. Himalaya, N. 45° 40′, W. 7° 58′	29.93	760.2	71	21.7	80	wnw.			2		10					4	nw.	showery.
H. M. S. Iris, Port Said, Egypt	29.87	758.7	80	26.7	91	nnw.			4		0					2	wnw.	showery.
H. M. S. Minotaur, Arosa Bay, Spain	30.10	764.5	64	17.8	76	ssw.			2		7	sw.						blue sky.
H. M. S. Opal, N. 6° 00′, W. 13° 27′	30.01	762.2	79	26.1	82	ssw.			2		5	ssw.				1	wnw.	d. clouds.
H. M. S. Tyne, N. 5° 00′, W. 1° 25′	30.04	763.0	79	26.1	86	s.			2		7	ssw.				2	ssw.	d. clouds.
H. M. S. Thetis, N. 45° 00′ W. 10° 50′	29.95	760.7	60	15.6	94	nw.			2		2	wnw.				1		d. clouds.
H. M. S. Tenedos, Great Jervis Harbor, N. F.	29.92	760.0	59	15.0	88	sw.			1		9	sw.				1	nnw.	d. clouds
U. S. Navy Yard, Portsmouth, N.H.*	29.98	761.5	72	22.2	80	calm	0	0			0			0	0			raining.
U. S. S. Constellation, Lynn Haven Roads Va *	30.07	763.8	74	23.3	81	sw.			1		0					mod.	s.	clear.
U. S. S. Dale, N. 36° 56′, W. 76° 03′	30.00	762.0	74	23.3	90	nw.			1		2					sm'h		clear.
U. S. S. Lancaster, Stockholm, Sweden	30.10	764.5	60	15.6	100	n.			3		2		n.			sm'h		fair.
U. S. S. Nipsic, N. 41° 28′, W. 53° 49′ *	29.99	761.7	73	22.8	85	s.			6		2		se.			mod.	se.	fair.
U. S. S. Portsmouth, Newport, R. I.	30.00	762.0	70	21.1	95	ssw.			1		2							fair.
U. S. S. Powhatan, N. 29° 33′, W. 80° 34′	30.02	762.5	82	27.8	91	wsw.			2		8							clear.
U. S. S. Saratoga, Newport, R. I.	30.03	762.7	74	23.3	81	sw.			1		0			0	0	sm'h		cloudy.
U. S. S. Vandalia, N. 22° 00′, W. 74° 18′	30.11	764.8	83	28.3	87	calm			0		2		calm			sm'h		clear.
U. S. S. Yantic, St. Johns, N.F.	29.85	758.2	53	11.7	93	calm			0		10							fair.
Cottica, N. 25° 08′, W. 57° 41′	30.21	767.3	80	26.7	87	ne.			4		3							foggy.
May Hulse, N. 12° 08′, W. 31° 08′	30.07	763.8	80	26.7	74	nne.			4		4							d. clouds.
St. Kilda, N. 13° 00°, W. 60° 15′	30.06	763.5	80.8	27.1	76	ne.			4		5							d. clouds.
H. P. M. S. Rio Lima, N. 23° 59′, W. 20° 07′	30.10	764.4	71.6	22.0	87	ne.			4		3		ne.			3		d. clouds.
S. S. British Prince, N. 50° 51′, W. 11° 23′ †	29.89	759.2	68	20.0		var.			2		8		wsw.	shr's	shr's	sm'h		d. clouds
S. S. Illinois, Liverpool, Eng	29.80	756.9	56	13.3		ese.			3		10		se.					cloudy.
S. S. Lord Clive, N. 47° 27′, W. 32° 21′ *	30.05	763.3				ene.			2		7		ene.	0	0	sli't	ne.	overcast.
S. S. Lord Gough, off Cape Clear, Ireland	29.73	755.1	56	13.3		wsw.			2		8		w.	0	0	sm'h		cloudy.
S. S. Ohio, N 46° 59′, W. 27° 27′ †	30.16	766.1	57	13.9		nne.			4		9		nw.	sh'rs	sh'rs	sm'h	w.	cloudy.
S. S. Pennsylvania, N. 40° 07′, W. 52° 21′†	30.19	766.8	71	21.7		ssw.			3		10			9 h'r	9 h'r	sm'h		cloudy.
S. S. Scandinavian, N. 42° 29′ W. 66° 07′	30.03	762.7	66	18.9		var.												overcast.
S. S. Grecian, N. 51° 18′, W. 42° 06′	29.97	761.2	58	14.4	94	ese.			4		10		sse.	3 h'r	3 h'r	light	se.	showery
S. S. Polynesian, N 49° 00′, W. 63° 40′			54	12.2		calm			0		10			0	0	sm'h	s.	cloudy.
S. S. Prussian, N. 42° 42′, W. 60° 45′	29.92	760.0	57	13.9		wnw.			1		0			7 h'r	7 h'r	long	sw.	foggy.
S. S. Manitoban, N. 46° 40′, W. 57° 02′			54	12.2	74	calm			0		7		nw.	5 h'r	5 h'r	sm'h	nnw.	foggy.
S. S. Sardinian, Matane, Quebec, Canada	29.93	760.2	51	10.6		e.			2		fg.			0	0	sm'h		foggy.
S. S. Alvo, off Saona Island, Hayti W. I *	30.06	763.5	80	26.7		ese.			4		4		calm	0	0	long	se.	foggy.
S. S. Alene, Port Limon, Porto Rica, W I†	29.90	759.4				var.			1–3		2			0	0	mod.	e.	fine.
S. S. Anchoria, N. 40° 57′, W. 69° 09′†	30.09	764.3				w.			1		0			0	0	sm'h		fine.
S. S. Dorian, N. 36° 30′, W. 2° 50′	30.08	764.0	74	23.3										0	0	mod.	ene.	hazy.
S. S. Furnesia, N. 40° 31′, W. 69° 34′ †	29.90	759.4	65	18.3	94	w.			2		6		w.	0	0	sm'h		clear.
S. S. Carroll, N. 43° 10′, W. 65° 56′			50	10.0	100	calm			0		fg.			rain	rain	short	ese.	fair
S. S. Jerome, N. 34° 21′, W. 64° 56′			72	22.2	?	wnw.			2		7		sw.	2 h'r	2 h'r	r'gh	ssw.	dense fog.
S. S. Landaff City, N. 51° 17′, W. 6° 19′†	29.84	757.9	64	17.8		ssw.			5		5		w.	sh'rs	sh'rs	mod.	w.	cloudy.
S. S. Bothnia, N. 41° 45′, W. 57° 45′	29.96	761.0	75	23.9	86	w.			4		10		wsw.	7 h'r	7 h'r	mod.	wsw.	showery.
S. S. Scythia, N. 42° 38′, W. 48° 39′	30.10	764.5							2		10			0	0			gloomy.
S. S. Canada, N. 41° 52′, W. 55° 25′			66.2	19		wsw.			4		ck	wsw.		0	0	rg'h	sw.	foggy.
S. S. France, N. 49° 33′, W. 10° 21′†	29.83	757.7	59.0	15.0		sw.			4		7		w.	rain	rain	sm'h	w.	covered.
S. S. Arizona, N. 40° 28′, W. 70° 00′	29.95	760.7	56	13.3		var.			1		fg			0	0	sm'h		dense fog.
S. S. Bohemia, Hamburg, Germany						ne.			2		2		ne.	0	0			fair
S. S. Frisia, N. 41° 42′ W. 60° 58′	30.05	763.3				nw.			2		10		nw.	0	0	long	nw.	cloudy.
S. S. Gellert, N. 41° 29′, W. 56° 42′	30.02	762.5	72	22.2	85	wsw.			2		10		nw.	rain	rain	mod.	sw.	covered.
S. S. Lessing, N. 49° 22′, W. 12° 43′	29.78	756.4	61	16.1		w.			5		3		w.	2 h'r	2 h'r	r'gh	w.	clear.
S. S. Rugia, New York, N.Y.	30.01	762.2																
S. S. City of Berlin, N. 51° 07′, W. 22° 44′	29.93	760.2	54	12.2	74	nw.			3		6		w.	sli't	sli't	mod.	w.	fine.
S. S. Mentmore, N. 46° 43′, W. 37° 51′*†	30.29	769.4				ese.			4		10		s.	0	0	mod.		cloudy.
S. S. Bulgarian, N. 44° 00′, W. 49° 00′ *	30.22	767.6				ssw.			2		10		sw.	0	0	light	sw.	overcast.
S. S. Archimedes, N. 50° 43′, W. 12° 01′	29.69	754.1				wnw.			2		4		w.	sh'rs	sh'rs	mod.	wnw.	fine.
S. S. Hevelius, N. 53° 24′, W. 2° 58′			60	15.6		ssw.			6		8		ssw.	2 h'r	2 h'r	sm'h		hazy
S. S. Sirius, N. 43° 20′, W. 9° 20′ *	29.98	761.5				s.			3		9		ssw.	2 h'r	2 h'r	mod.	sw.	cloudy.
S. S. City of San Antonio, N. 34° 45′, W. 75° 51′*†	30.02	762.5	74	23.3		n.			3		0					light	ne.	clear.
S. S. Colorado, N. 29° 27′, W. 79° 58′†	30.08	764.0	79	26.1		n.			3		6		nne.	h'vy	h'vy	mod.	nne.	fair.
S. S. Chalmette, Algiers, La†	30.14	765.5	80	26.7		calm			0		6			2 h'r	2 h'r			fair.
S. S. New York, N. 28° 18′ W. 80° 15′*†	30.10	764.5	80	26.7		nw.			4		3		nw.			sm'h		clear.
S. S. Lone Star, N. 28° 42′, W. 88° 45′ †	30.08	764.0	82	27.8		s.			2		3		s.			sm'h		clear.
S. S. Denmark, N. 40° 50′ W. 54° 07′ †	30.14	765.5	71	21.7		sw.			6		8		sw.	13 h'r	13 h'r	mod.	sw.	cloudy.
S. S. England, N. 47° 33′, W. 30° 11′	30.22	767.6				ne.			5		8		ne.	0	0	mod.	ne.	cloudy.
S. S. Helvetia, N. 40° 30′, W. 68° 34′	30.09	764.3	65	18.3	89	calm			0		0			0	0	sli't	se.	clear.
S. S. Holland, N. 40° 53′, W. 49° 29′	30.14	765.5	71	21.7		ssw.			3		5		ssw.	2 h'r	2 h'r	mod	sw.	fair.
S. S. The Queen, N. 48° 35′, W. 28° 19′	30.10	764.5	58	14.4	82	wnw.			4		10		nw.	0	0	mod.	nnw.	overcast.
S. S. Braunschweig, N. 39° 06′, W. 64° 48′	29.95	760.7	72.0	22.2	80	nne.			4		6		ne.	0	0	sm'h	ne.	fair.
S. S. Elbe, Bremerhaven, Germany	30.02	762.6	67	19.4	84	s.			3		0			0	0			clear.
S. S. Fulda, N 43° 40′, W. 43° 41′	30.16	766.1	70	21.1	80	wnw.			5		8		nw.	0	0	mod.	w.	cloudy.
S. S. Habsburg, N. 40° 18′ W. 70° 02′	30.09	764.3				calm			0		0			0	0			hazy.
S. S. Neckar, N. 45° 03′, W. 37° 00′	30.23	767.8	67.0	19.4	97	e.			1		9		se.	0	0	sm'h		foggy.
S. S. Oder, N. 48° 54′, W. 18° 34′	29.90	759.4	57	13.9		nw.			3		6		wnw.	0	0	r'gh	nw.	fair.
S. S. Ohio, N. 45° 40′, W. 29° 31′	30.28	769.1				ene.			2		5		ene.	1 h'r	1 h'r	light	ene.	fair.
S. S. Salier, N. 49° 45′, W. 22° —′*	29.97	761.2	55	12.8	93	n			6		7		nnw.	1 h'r	1 h'r	r'gh	nw.	rainy.
S. S. Weser, N. 49° 29′, W. 16° 33′	29.91	759.7	57	13.9		wnw.			5		5		w.	1 h'r	1 h'r	mod.	w.	fair.
S. S. City of Augusta, N. 37° 11′ W. 74° 44′†	30 11	764.8				e.			4		4		ese.	0	0	sm'h		fair.
S. S. Colon, Aspinwall, Panamat	29.89	759.2	79	26.1	100	w.			1		0			0	0			clear.
S. S. Muriel, N. 26° 40′, W. 66° 52′	30.18	766.6	79	26.1		sw.			4		5		s.	sh'rs	sh'rs	mod.	ssw.	fair.
S. S. Rhynland, N. 4.° 45′, W. 48° 30′	30.27	768.8	57	13.9	69	wsw.			4		10		wsw.	6 h'r	6 h'r	sm'h		dense fog.
S. S. Pennland, N 50° 55′, W. 1° 03′.	30.08	764.0	60	15.6	82	sw.			3		3		sw.	5 h'r	5 h'r	sm'h	w.	clear.
S. S. Switzerland, N. 47° 40′, W. 30° 35′ †	30.27	768.8				nne.			3		10		nne.	0	0	light	n.	cloudy.
S. S. Waesland, N. 40° 30′, W. 68° 25′	30.09	764.3	60	15.6		nnw.			2		1		nw.	0	0	sm'h		clear.
S. S. P. Caland, N. 48° 45′, W. 20° 30′	29.99	761.7	57.7	14.3	87	nw			5		8		n.			4	nw.	squally.
S. S. Leerdam, N. 50° 46′ E. 0° 30′	29.96	761.0	67	19.4	82	s.			2		6		sw.	0	0	sm'h		fair.
S. S. W. A. Scholten, N. 45° 41′, W. 43° 24′	30.06	763.5	66.8	19.3	89	wsw.			1		6		w.	½ h'r	½ hr	2	w.	fair.
S. S. Belize, N. 11° 26′, W. 75° 24′ *	29.85	758.2	85	29.4		ne.			5		8		e.	0	0	h'vy	e.	cloudy.
S. S. Valencia, La Guayra, Venezuela †	30.14	765.5	82	27.8	67	ene.			3		0			0	0	mod.	ne.	clear.
S. S. State of Georgia, N. 55° 25′, W. 9° 21′ †	29.75	755.6	56	13.3		sse.			5		5		sw.	light	light	mod.	w.	fair.
S. S. State of Indiana, N. 42° 49′, W. 56° 45′ *†	29.95	760.7	63	17.2		n.			2		5		n.	0	0	sm'h		hazy.
S. S. State of Nevada, N. 53° 55′, W. 20° 44′ †	29.87	758.7	59	15.0		nw.			4		8		se.	3 h'r	3 h'r	light	nw.	drizzling.
S. S. Thingvalla, N. 40° 35′, W. 71° 22′ †	30.05	763.3	74.3	23.5		sse.			2		1		sse.	0	0	sm'h	sse.	clear.
S. S. Oregon, N. 48° 52′, W. 67° 49′	29.94	760.5	55	12.8		se.			1		9		nnw.			mod.	se.	foggy.
S. S. Daniel Steinmann, Montreal, Canada†	29.97	761.2	76	24.4		w.			1		1		w.	0	0			clear.
S. S. Aries, N. 40° 02′, W. 73° 52′*†	30.00	762.0				s.			1		0			0	0	sm'h		clear.
S. S. Norman, N. 42° 12′, W. 70° 15′	29.90	759.4				wsw.			1		0			0	0	sm'h		clear.
S. S. Saxon, N. 41° 18′, W. 71° 05′ †	30.03	762.7				w.			4		2							clear.
S. S. Adriatic, N. 45° 49′, W. 39° 30′ *†	30.10	764.5	65	18.3		ssw.			3		9		ssw.	0	0	sli't	wnw.	hazy.
S. S. Celtic, N. 41° 26′, W. 55° 58′ †	30.04	763.0	72	22.2		var.			2		10		nne.	12 h'r	12 h'r	mod.	sw.	overcast.
S. S. Iowa, off Galley Head, Ireland †	29.78	756.4	58	14.4		sw.			4		2		sw.	2 h'r	2 h'r	sm'h		clear.
S. S. Antonio Lopez, Cadiz, Spain	30.09	764.3	69.5	20.8	82	wsw.			3		7			0	0			fair.
Schr. Abbie H. Gheen, Jersey City, N. J†	30.15	765.8	74	23.3		calm			0									clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
Bg. Abbie Clifford, N. 40° 07′ W. 68° 39′†	29.94	760.5	62	16.7		nw.			1		0			0	0	sm'h	se.	clear.
Bk. Aquidneck, N. 7° 47′, W. 29° 34′*†	30.00	762.0				e.			1				se.	4 h'r	4 h'r	light	se.	clear.
Schr. Anna A. Holton, N. 25° 47′, W. 77° 04′*†	30.10	764.5	84	28.9		n.			6		10		n.	½ hr	½ h'r	mod.	sw.	drizzling.
Schr. Arthur Burton, Seguin Island, Me†	29.95	760.7				calm			0		0			0	0			fine.
Bk. Aureola, N. 50° 10′, W. 17° 35′†	29.91	759.7	65	18.3		nnw.			4		3		nnw.	1 h'r	1 h'r	long	uw.	fair.
Bk. Arda, Sackville, N. B†	29.95	760.7				ne.			4		3		ne.	0	0			clear.
S. S. Burswell, N. 46° 04′, W. 8° 40′*†	29.95	760.7	63	17.2		wsw.			5		10		ssw.	20 h'r	20 h'r	str'g	wnw.	rainy.
Bg. Belle of the Bay, Appalachicola, Fla †	30.04	763.0				sw.			5		6		w.	20 minutes				fair.
Bk. Bayonnaise. N. 24° 43′, W. 28° 50′			73.4	23		ne.			3		4		ne.			sm'h	ne.	fine.
Schr. C. R. Flint, N. 24° 21′, W. 96° 30′ †	30.00	762.0	83	28.3		se.			1		2		se.	0	0	sm'h	se.	fair.
Bk. Cato, N. 71° 54′, E. 26° 10 *†	30.17	766.3				ese.			3		1		s.			mod.	ene.	hazy.
S. Criterion, off Sandy Hook, N. J*†	29.90	759.4				calm			0									
Schr. Clotilde, Tuspan Bar, Mexico*†	29.92	760.0	82	27.8		w			2		5		nw.	2 h'r	2 h'r	sm'h	ese.	fair.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I*†	30.08	764.0	83	28.3	79	se.			1		4		e.	0	0			fair.
Bkt. David A. Preston, Port Royal, S. C.						se.			2		5		se.	0	0			
S. E. J. Spicer, N. 40° 15′, W. 69° 15′	30.05	763.3	63	17.2	100	nw.			1				nw.	0	0	sm'h		hazy.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′*†	29.80	756.9	64	17.8		nnw.			1									drizzling.
U. S. Fish. Com. S. S. Fish Hawk, Hampton Roads Va †	30.02	762.5	73	22.8	90	nw.			1		0			0	0			clear
S. Festina Lente, St. Paul Island, Gulf of St. Law.	29.96	761.0	50	10.0		wnw.			2		10		nnw.	8 h'r	8 h'r	mod.	se.	clearing.
Schr. F. E. Waters, N. 26° 46′, W. 77° 04′*†	30.20	767.1				wsw.			2				sw.	4 h'r	4 h'r			fair.
Bk. George Davis, N. 55° 30′, W. 10° 20′						ssw.			6				sw.	0	0		sw.	
Bgt George, Ponce, Porto Rico, W. I*†	30.04	763.0	81	27.2		ene.			2		2			0	0	mod.	se.	fair.
Bk. Galeon, N. 36° 45′, W. 71° 30′ †	30.00	762.0	75	23.9		e.			2		7		ese.	1 h'r	1 h'r	sm'h	ene.	squally.
Bk. Heinrich & Tonio, N. 40° 50′, W. 61° 15′†	29.93	760.2	69	20.6		wnw.			1-2		10		wnw.	8 h'r	8 h'r	sm'h		cloudy.
S. Hedwig, N. 42° 47′, E. 15° 59′	29.99	761.8	74.5	23.6	80	w.			2		0			0	0	sm'h		fine.
Bk. Hattie G. McFarland, New York, N. Y†	30.06	763.5	72	22.2		s.			2		0			0	0			clear.
Bk. Harriett S. Jackson, N. 36° 20′, W. 71° 46′						se.			3		2		se.	0	0	small	ssw.	
Bk. Horace Scudder, N. 13° 15′, W. 64° 20′*†	30.11	764.8	82	27.8		e.			3		2		e.	0	0	light	e.	fine.
Schr. Isabel Alberto, St. Augustine, Fla †	30.02	762.5				wsw.			1		3		w.	h'vy	h'vy			fair.
Bk. Johanne, N. 48° 21′, W. 60° 44′*†	29.97	761.2	48	8.9		nne.			2		10		var.	0	0	sm'h		foggy.
Schr. John L. Thomas, Old Providence Island, C. A *†	30.00	762.0	86	30.0		ese.			5		3		ese.	15 minutes				fair.
Bg. John Wesley, N. 8° 37′, W. 25° 23′*†	29.94	760.5	81	27.2		n.			1		10			1 h'r	1 h'r	cross	var.	squally.
Schr. Jennie N. Huddell, N. 34° 20′, W 76° 00′†	30.04	763.0	78	25.6		nne.			2		2		ne.	0	0	short	ne.	clear.
S. J. W. Gildemeister, N. 14° 03′, W. 28° 15′	30.12	765.0	78.8	26	80	var.			3-5		4 k		ene.	0	0	3	ene.	misty.
Bg. L. & W. Armstrong, St. Pierre, Martinique, W. I*†	30.12	765.0				calm			0		1		ene.	½ h'r	½ h'r			fine.
Light House Tender, Laurel, Key West, Fla†	30.08	764.0	84	28.9		ese.			0-1		8		e.	0	0			cloudy.
Bk. Louise Adelaide, N. 37° 50′, W. 75° 00′†	30.06	763.5	74	23.3		ene.			1		0			0	0	sm'h	e.	clear.
Bk. Milo, N. 45° 02′, W. 60° 07′†	29.95	760.7				w.			1		fg.						var.	foggy.
S. S. Madrid, N. 36° 46′, W. 69° 04′†	30.05	763.3	76	24.4	82	nne.			4		2		nne.	4 h'r	4 h'r	sm'h	var.	fair.
Schr. Minnie A. Bonsall. Rondout, N. Y.†	30.04	763.0	75	23.9		w.			1				sw.	0	0			clear.
Bgt. Myrtle, Mayagues, Porto Rico, W. I.*†	30.12	765.0				e.			1				e.	0	0			fair.
Schr. Maggie Abbott, N. 36° 00′, W. 75° 20′ †	30.11	764.8				ne.			4		0			0	0		e.	clear.
S. S. Mendoza, N. 36° 33′, W. 63° 05′†	30.05	763.3				s.			5		5		s.	0	0	rg'h	s.	fair.
Bk. National Eagle, N. 38° 42′, W. 20° 56′						ssw.			2		2		s.	0	0	sm'h		fair.
Bg. O. C. Clary, Guadelope, W. I*†	30.10	764.5				ese.			4		0							clear.
Bk. Orpheus N. 39° 46′, W. 72° 09′	30.02	762.5	74	23.3		calm			0		0			0	0	sm'h		clear.
Bk. Ottawa, N. 56° 04′, E. 18° 14′	29.85	758.2	52	11.1		n.			4		9		e.	0	0	small	ene.	foggy.
S. Paramita, N. 34° 05′, W. 39° 50′†	30.39	771.9	80	26.7		wnw.			1		0			0	0	long	nw.	clear.
S. S. Raleigh, N. 24° 50′, W. 73° 45′ †	30.06	763.5	90	32.2		s.			1		0			0	0	sm'h		clear.
S. Rudolph, N. 45° 03′, W. 30° 53′			64.0	17.8		e.			4		5		wnw.	0	0	mod.	var.	fair.
Bg. Rising Sun, N. 20° 17′, W. 04° 30′ †	30.10	764.5	85	29.4		e.			4		1		e.	0	0	mod.	e.	
Bk. Rosino, N. 36° 19′, W. 6° 30′			74	23.3		calm			0		0			0	0			clear.
Bk. Saga, N. 40° 30′, W. 70° 49′ *†	30.02	762.4	68	20.0					1		1		sse.	0	0	sm'h	ese.	clear.
Bk. Sunbeam, N. 41° 10′, W. 22° 29′ †	30.25	768.3	67	19.4	84	wsw.			4		8		wnw.	0	0	mod.	wnw.	cloudy.
Bk. Southern Belle, N. 24° 30′, W. 59° 50′†	30.10	764.5	80	26.7		ese.			3					hv'y	hv'y	long	se.	clear.
S. Sovereign of the Seas, N. 11° 31′, W. 31° 49′*†	30.20	767.1	80	26.7	91	ne.			4		3		ne.	0	0	mod.	e.	hazy.
Bg. Teneriffe, N. 42° 25′, W. 51° 45′*	29.98	761.5				sw.			0		2		sw.	0	0	mod.		
Bk. Tuck Sing, N. 26° 21′, W. 79° 55′*†	30.04	763.0				nw.			4		0			0	0	sm'h		hazy.
Schr. Viola Reppard, Bath, Me†	29.98	761.5	69	20.6		calm			0		0			0	0			clear.
Bkt. Wandering Jew, Matanzas, Cuba *†	30.10	764.5	81	27.2		calm			0		4		calm	0	0			fair.
Bgt. Sunlight, N. 18° 15′, W. 54° 30′						e.			4		5		e.	½ h'r	½ h'r	mod.	e.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay †	30.14	765.5	47.5	8.6	97	nw.			1		1	nw.				1	sw.	blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.19	766.8	63	17.2		calm			0		0							blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.11	764.8	46.5	8.1	90	nw.			3		3							d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.10	764.5	46	7.8	92	wnw.	10	4.5			2		w.	0.35	8.9	sm'h		fair.
U. S. S. Galena, Montevideo, Uruguay*	30.07	763.8	48	8.9	85	wsw.			2		2					sm'h		clear.
U. S. S. Quinnebaug, S. 1° 20′, E. 7° 05′	30.06	763.5	75	23.9	86	ssw.			2		8		sw.			sm'h	ssw.	fair.
S. Anne M. Law, S. 33° 02′, E. 14° 37′ *†	30.30	769.0	64	17.8		ne.			2		0			0	0	long	wsw.	clear.
S. David Stewart, off Pernambuco Light, Brazil†	29.90	759.4				se.			4		2		se	0	0	long	se.	
S. Wm. McGilvery, S. 50° 15′, W. 64° 59 *†	29.60	751.8	49	9.4	93	n.			4		3		nnw.	0	0	sm'h		
S. S. Olbers, S. 23° 06′, W. 42° 21′†	30.18	766.6	73	22.8	76	nne.			3		3		ne.	0	0	sll't	ese.	clear.
Bk. Achille F., S. 35° 15′, W. 51° 30′ †	29.93	760.2	58	14.4	88	w.			8		10		w.	20 h'r	20 h'r	h'vy	wsw.	squally.
Bk. Alpheus Marshall, S. 6° 01′, W. 29° 31′ *†	29.90	759.4				ese.			2		2		ese.	0	0			clear.
Bk. Ceylon, S. 7° 49′, W. 18° 28′*†	30.19	766.8	84	28.9	83	se.			4					0	0	sm'h		clear.
Bk. Gray Eagle, S. 18° 32′, W. 33° 20′*†	30.10	764.5				ese.			4		3		se.	2 h'r	2 h'r	long	sse.	clear.
H. P. M. S. Douro, S. 3° 19′, E. 10° 42′	30.06	763.4	77.0	25.0	76	ssw.			3		10			0	0			
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.64	752.8	73	22.8	85	se.			2		4	se.						d. clouds.
H. M. S. Champion, Sulu Island, Oceania	29.84	757.9	81	27.2	87	calm			0		9					2	w.	d. clouds.
H. M. S. Espiegle, N. 5° 33′, E. 107° 40′	29.90	759.4	82	27.8	83	ne.			2		4					1	ne.	d. clouds.
H. M. S. Flying Fish, N. 37° 34′, E. 121° 26′	29.70	754.4	73	22.8	90	e.			1		6					1	e.	d. clouds.
H. M. S. Magpie, N. 6° 08′, E. 118° 01′	29.89	759.2	80.6	27.0	83	nw.			3		10					3	wnw	showery
H. M. S. Zephyr, N. 35° 27′ E. 139° 39′	29.89	759.2	76	24.4	73	calm			0		2							d. clouds.
H. P. M. S. Tamega, Macao, China	29.93	760.2	84.2	29.0	78	sw.			5		0			2 h'r	2 h'r			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.93	760.2	71.5	21.9	90	calm			0		2			0	0			hazy.
U. S. S. Adams, N. 58° 10′, W. 134° 13′†	29.50	749.3	49	9.4	93	se.			3		10					sm'h		raining.
U. S. S. Essex, Honolulu, Sandwich Ids	30.10	764.5	76	24.4	86	ne.			2		2		ne.			sm'h		clear.
U. S. S. Hartford, N. 10° 10′, W. 158° 10′ *	29.83	757.7	79	26.1	86	ene.			5		8		var.	0	0	mod.		cloudy.
U. S. S. Monocacy, Salee river, Corea	29.66	753.4	76	24.4	60	n.			2		8		ne.					misty.
U. S. S. Palos, Hong Kong, China	29.77	756.1	87	30.6	72	sse.			1		2		calm					clear.
U. S. S. Richmond, Shanghai, China *	29.60	751.8	83	28.3	79	sw.			1		10		sw.	3.	76.			cloudy.
S. S. Coptic, N. 38° 12′, E. 145° 50′	29.80	756.9	55.0	12.8	71	nw.			2		10		nw.	0	0	mod.	nw.	overcast.
S. S. Oceanic, N. 42° 00′, W. 137° 40′	30.04	763.0	58	14.4	76	wnw.			3		7		w.			light	nw.	fair.
S. S. Oregon, San Francisco, Cal†	30.04	763.0	53	11.7	93	calm			0		10		nw.					cloudy.
S. S. Willametta, N. 45° 33′, W. 124° 15′†	30.17	766.3	56	13.3	94	sse.			2		7		s.	0	0	long	w.	fair.
S. S. City of Chester, Eureka, Cal†	30.02	762.5	52	11.1	86	sw.			3		8		sw.					cloudy.
S. S. Dakota, N. 45° 56′, W. 124° 38′ †	30.08	764.0	47	8.3	?	calm			0		10							overcast.
S. S. Queen of the Pacific, N. 40° 35′, W. 124° 33′†	30.13	765.3	57	13.9	94	s.			5		10		nw.			light	s.	cloudy
S. S. City of Pekin, N. 40° 42′, W. 106° 05′†	30.09	764.3	53	11.7		nw.			5		5			0	0	sm'h		fair.
S. S. City of Rio de Janeiro, Hong Kong, China†	30.27	768.8	43	6.1	100	w.			3		10		wnw.	0	0	light	nw.	overcast.
	29.86	758.4	85	29.4	72	ssw.			2		0			0	0	sm'h		clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. Colima, Panama, Panama †	29.87	758.7	78	25.6	91	ne.			3		4		nw.	0.30	7.6			fair.
S. S. San Blas, N. 20° 12′, W. 105° 37′			80	26.7		nne.			3		3		nnw.	1 h'r	1 h'r	small	s.	clear.
S. S. San José, N. 18° 20′, W. 103° 50′ †	29.95	760.7	78	25.6		se.			3		5		ese.	0	0	long	se.	fair.
S. S. Benledi, N. 31° —′, E. 122° —′ *	29.67	753.6	81	27.2	87	var.			1–4		5		wsw.	0	0	mod.	ssw.	squally.
S. S. Radnorshire, Shanghai, China*†	29.70	754.4				var.			2		10		ne.	4 h'r	4 h'r			raining.
S. Sacramento, Zebu, Philippine Ids*†	29.96	761.0	82	27.8	75	sw.			2		8		sw.	4 h'r	4 h'r	sm'h		cloudy.
S. St. David, N. 26° 40′, E. 130° 46′	29.92	760.0	87	30.6	84	sw.			2		4		sw.	0	0	con.	var.	fair.
Bk. Xenia, N. 28° 38′, E. 122° 29′ *†			80	26.7		sw.			6		2		sw.	0	0	short	ssw.	light fog.
H. M. S. Sappho, N. 32° 43′, W. 117° 10′	29.95	760.7	64	17.8	94	calm			0		3	nw.						d. clouds.
U. S. S. Ranger, La Union, San Salvador	29.94	760.5	80	26.7	87	calm			0		8		calm	0	0	sm'h		cloudy.
S. Henry Failing, Wilmington, Cal†	29.76	755.9	66	18.9		ene.			1		fg.			0	0	sm'h	se.	
S. Grecian, Yokohama, Japan†	29.89	759.2	75	23.9	81	se.			1		0			0	0			clear
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			55	12.8	81	w.			2		1	w.						blue sky.
H. M. S. Kingfisher, S. 38° 38′, W. 90° 40′	29.63	752.6	52	11.1		s.			6–8		7					9	ssw.	showery.
H. M. S. Nelson, Souva, Feejee Ids	29.67	753.6	75	23.9	95	nnw.			3		9	se.						d. clouds.
U. S. S. Iroquois, Valparaiso, Chili	29.91	759.7	54	12.2	93	ese.			2		10					mod.		rainy.
U. S. S. Lackawanna, Callao, Peru *	29.99	761.7	62	16.7	77	se.			2		10							cloudy.
U. S. S. Onward, Callao, Peru†	30.12	765.0	62	16.7	77	se.			2		10		se.					cloudy.
U. S. S. Pensacola. Callao, Peru*	29.97	761.2	62	16.7	88	sse.	8	3.6			10		se.	0	0			cloudy.
U. S. S. Wachusetts, Noukahiva, Marquesas Ids	29.96	761.0	78	25.6	86	ene.			1		5		e.			sm'h		fair.
S. S. Australia, Sydney, N. S. W	30.18	766.6	52	11.1	93	w.			1		1		calm	0	0			clear.
S. S. City of New York, S. 7° 28′, W. 167° 36′ †	29.93	760.2	82	27.8	75	ese.			4		0			0	0	hv'y	se.	clear.
S. S. City of Sydney, S. 15° 36′, W. 171° 00′*†	29.90	759.4	79	26.1	86	n.			3		7 k		ese.			mod	ene.	fair.
H. M. S. Lark, S. 7° 09′, E. 155° 47′	29.92	760.0	78.3	25.7	93	se.			3		10					1	se.	raining.
Bk. Edmund Phinney, S. 21° 52′, W. 74° 48′ *†	30.06	763.5	62	16.7		sw.			1		9			0	0	mod.	var.	cloudy.
S. Parker M. Whitmore, S. 21° 12′, W. 106° 35′ *†	30.26	768.6	71	21.7		se.			5		5		se.	4 h'r	4 h'r	long	ssw.	fair.
S. Storm King, S. 9° 49′, W. 105° 10′ *†	30.05	763.3				ese.			5		1		se.	0	0	sm'h	se.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.09	764.3	79	26.1	86	sse.			3		3	sse.				3	sse.	d. clouds.
H. M. S. Sheldrake, S. 0° 51′, E. 104° 58′			81	27.2		sse.			2		2					2	s.	d. clouds.
U. S. S. Enterprise, S. 15° 30′, E. 44° 16′ *†	30.17	766.3	76	24.4	86	se.			1		2		calm			sm'h		clear.
U. S. S. Juniata, N. 8° 35′, E. 81° 21′	29.84	757.9	84	28.9	87	wsw.			4		8		w.	light	light	sm'h		cloudy.
S. S. Toledo, N. 29° 26′, E. 32° 44′ *†	29.93	760.2	93	33.9		calm			0		0							clear.
S. S. Malabar, N. 6° 55′, E. 75° 31′ *†	29.81	757.2				sw.			7		2		sw.	0	0	h'vy	sw.	clear.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 25, 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.6	73.0	22.8	84	s.			1		0			0	0	clear	Malaterre.
Algiers			30.01	762.2	74.8	23.8	66	nw.			3		4			inap.	inap.	cloudy	Thève.
La Calle			30.00	762.0															Fonfrède.
Tunis			30.01	762.2															Jacques.
Saida			30.00	762.0															Pérès.
Tebessa			30.06	763.5	93.9	34.4	12	nw.			4		3			0	0	pretty fair	St. Martin.
Geriville					91.4	33.0	5	sw.			5		0			inap.	inap.	clear	Forfert.
Laghouat			29.99	761.8	96.8	36.0	13	sw.			4		1			0	0	very fair	Abraham.
Biskra			30.03	762.8	91.0	32.8	27	se.			2		0			c	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.26	768.6	50.2	10.1	85	n.	9	4.0			1 ks			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.06	763.5	30.15	765.8	53.6	12.0	77	n.	18	8.0			3			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.43	747.5	29.96	760.9	73.4	23.0	53	s.			2		0			0.008	0.2		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.17	740.8	29.92	760.0	59.0	15.0	81		8.7	3.9			10			0.004	0.1		Dr. Wierzbiski
Eperies	28.98	736.2	29.83	757.7	69.4	20.8	60	nw.			2		7 s		se.	0	0		Julius Mikolik.
Gratz	28.71	729.2	29.91	759.7	73.4	23.0	65	w.			2		5			0	0		Andreas Rospini.
Hermannstadt	28.49	723.6	29.87	758.7	68.7	20.4	51	nw.			3		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.63	727.1	29.92	759.9	70.9	21.6	54	nw.			1	3 ck				0	0	ltly clouny	The Staff.
Lemberg	28.84	732.4	29.80	756.8	63.1	17.3	83	nw.			3		10			0.614	15.6		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.89	759.3	30.00	762.0	76.6	24.8	87	sse.			3		0			0	0		I. R.Hydrographic Office.
Szathmar	29.41	747.0	29.86	758.5	68.0	20.0	88	n.			4		9			0	0		Joseph Midlinszky, S. J.
Szegedin	29.63	752.7	29.91	759.6	69.6	20.9	63	nw.			2		10			0	0		Karl Stancel.
Trieste	29.90	759.5	30.00	762.0	75.2	24.0	52	w.			1		1			0	0		Royal Academy.
Vienna	29.27	743.4	29.96	761.0	71.6	22.0	44	nw.			2		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.78	756.4	29.88	758.9	55.3	12.9	90	sse.	16	7.2			10			0.445	11.3	overcast	W. Boswell.
Armagh, Observatory	29.55	750.6	29.78	756.4	57.5	14.2	75	sse.	5	2.2			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.78	756.4	60.7	15.9	77	nnw.	7	3.1			9					overcast	John Hartnup.
Bolton, Sharples	29.26	743.2	29.79	756.7	64.6	18.1	66	se.	6	2.7			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.40	746.7	29.79	756.7	66.3	19.1	93	se.			1		5			0.79	20.1	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	83.0	28.3	71	ne.			2		2					d. clouds	Corpl. W. I. Cull, A.H.C
Cardington	29.70	754.4	29.80	756.9	77.4	25.2	56	sw.			0.4		7					raining	John McLaren.
Chatham, School M. E.	29.73	755.1	29.86	758.4	66.0	18.9	84	ne.			3		9					gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.60	751.8	29.83	757.7	62.1	16.7	68	sw.			2		5					d. clouds	The Staff.
Fort Napier, Natal	27.91	708.9	30.13	765.3	76.3	24.6	39	nw.			3		1					gloomy	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	85.0	29.4	76	s.			1		8					raining	J. W. Smith.
Galway, Queen's College	29.69	754.1	29.72	754.9	62	16.7	61	sw.			1		4			0.01	0.3	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	72.5	22.5	88	w.			4		5					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.61	752.1	29.82	757.4	59.7	15.4	82	n.			3		10					overcast	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.63	752.6	29.79	756.7	74.0	23.3	58	sw.			1		6					d. clouds	The Staff.
Guernsey	29.56	750.8	29.86	758.4	57.5	14.2	90	wsw.			1		10					overcast	A. Collenette, F. M. S.
Kew, Observatory	29.77	756.1	29.80	756.9	72.1	22.3	56	sw.	9	4.0			7					d. clouds	The Staff.
Leicester, Museum	29.54	750.3	29.79	756.7	65.0	18.3	81	sw.			1		7					d. clouds	J. C. Smith.
Malta, Mediterranean	30.04	763.0	30.11	764.8	76.4	24.7	98	se.					0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.01	762.2	30.05	763.3	86.0	30.0	67	nw.			2		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.28	743.7	29.79	756.7	67.3	19.6	63	s.			3		8					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.58	751.3	29.81	757.2	67.8	19.9	65	ssw.			3		7					d. clouds	The Staff.
Plymouth	29.74	755.4	29.81	757.2	59.8	15.4	88	sw.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.76	755.9	29.86	758.4	56	13.3	92						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.83	757.7	29.89	759.2	75.2	24.0	64	sw.			1		7					d. clouds	W. H. Lyne.
Sheffield	29.53	750.0	29.80	756.9	69.9	21.1	79	s.			1		10			0.73	18.5	showery	W. F. Cooper.
Silloth Rectory	29.78	756.4	29.81	757.2	63.0	17.2	68	w.			1		3			0.655	16.6	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	29.78	756.4	29.88	758.9	66	18.9	54	sw			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.72	754.9	29.74	755.4	61.0	16.1	62	se.	19	8.5			6			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.72	754.9	30.11	764.8	77.4	25.2	51	s.	3.7	1.7			4 n		w.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B					68.0	20.0		calm	0	0		6 ck	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	763.0	30.08	764.0	63	17.2	88	s.	12	5.4		2 cs	0	calm		0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.99	761.7	30.05	763.3	67	19.4	59	w.	1	0.4		10 c	0	w.		0	0	fair	G. A. Blair.
Cornwall, Ontario	29.70	754.4	29.89	759.2	70.2	21.2	85	sw.			1		10 s			0.033	0.9	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.99	761.7	30.04	763.0	63.5	17.5		calm			0		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	29.99	761.7	30.02	762.5	52	11.1	90	ne.	25	11.2			8 n		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.33	745.0	30.16	766.1	52	11.1	93	se.	1	0.4		2 ks	5 ks		s.	0	0	fair	James Stewart.
Fredericton, N. B	30.03	762.7	30.09	764.3	68.1	20.1	79	se.	4	1.8		2 c	0			0	0	d. clouds	Prof. Harrison, L. L. D.
Granton, Ontario	28.75	730.2	29.80	756.9	66.0	18.9	100	calm	0	0			10 n			0.03	0.8	cloudy	Jas. Grant.
Halifax, N. S*	30.01	762.2	30.14	765.5	55	12.8	100	se.	1	0.4			fg.			0	0		A. Allison.
Hamilton, Ontario	29.39	746.5	29.78	756.4	64.7	18.2	89	e.			2	10 cs	0	e.		0.50	12.7	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.56	750.8	29.88	758.9	67	19.4	81	s.	6	2.7			10 n			inap.	inap.	light rain	A. P. Knight, M. A.
Little Glace Bay, N. S	30.07	763.8	30.11	764.8	67.0	19.4	77	sw.			2	4 k	0	sw.		0	0	fair	C. H. Rigby.
London, Ontario	28.92	734.6	29.78	756.4	65.2	18.4	94	calm					10 n			0.02	0.5	drizzling	E. B. Reed.
Montreal, Quebec*	29.75	755.6	29.94	760.5	69	20.6	76						10 ks		sw.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.68	753.9	29.92	760.0	66.8	19.3		ne.			1	7 ck	0			inap.	inap.	fair	A. McGill, M. A.
Parry Sound, Ontario*	29.14	740.1	29.81	757.2	63	17.2	93	ne.	9	4.0			10 n		se.	0.16	4.1	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.14	740.1	29.84	757.9	68	20.0	79	ne.			1	0	9 k			0.010	0.3	d. clouds	J. Dixon, B. A.
Port Dover, Ontario	29.13	739.9	29.79	756.7	66	18.9	94	ne.	3	1.3			10 n		s	0.01	0.3	threatening	H Morgan.
Port Stanley, Ontario	29.17	740.9	29.79	756.7	67	19.4	97	e.	12	5.4			fg.			0.12	3.0	foggy	M. Payne.
Quebec, Quebec*	29.64	752.8	29.98	761.5	63	17.2	96	n.	8	3.6			10 ks		sw.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.48	748.8	29.92	760.0	62	16.7	97	nw.	1	0.4			10 n			1.79	45.5	heavy rain	W. H. McIntyre.
St. Andrews, N .B	30.03	762.7	30.08	764.0	54	12.2	100	se.	4	1.8			fg.			0	0	foggy	
St. John, N. B	29.95	760.7	30.12	765.0	55.0	12.8	100	sw.	5	2.2			fg.			0	0	overcast	G. Murdock, C. E.
Saint John's, N. F	29.89	759.2	30.14	765.5	64	17.8	83	w.			3		10 n			0	0	overcast	J. Higgins.
St. Pierre, N. F			30.08	764.0	60.8	16.0		calm			0					0	0		The Commandant.
Saugeen, Ontario*	29.11	739.4	29.79	756.7	64	17.8	93	e.	10	4.5		10 k	0			0.90	22.9	cloudy	
Stratford, Ontario	28.56	725.4	29.79	756.7	62.9	17.2	91	e.	5	2.2			10 s			0.064	1.6	d. clouds	C. J. Macgregor, M A.
Sydney, C. B*	30.06	763.5	30.12	765.0	65	18.3	84	sw.	8	3.6		2 c	0	s.		0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.46	748.3	29.83	757.7	64	17.8	93	ne.	4	1.8			10 n		sw.	0.05	1.3	cloudy	Magnetic Observatory.
Windsor, N. S	30.00	762.0	30.10	764.5	63.0	17.2	86	se.	4	1.8		2 c	0			0	0	blue sky	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.79	731.3	29.80	756.9	62.3	16.8	93	ne.	12	5.4			10 s			0.29	7.4	raining	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.05	763.3	30.12	765.0	62	16.7	87	sw.	1	0.4		2 cs	0	sw.		0	0	fine	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.10	764.5	30.13	765.3	80.0	26.7	39	nw.	8.1	3.6		0	0			0	0	smoky	John Duthie
Springbok Fontein	28.15	715.0			70	21.1	24	ne.											J. T. Eustace.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Guelny.
Tchang-kia-tchouang	29.41	747.0	29.52	749.8	85.8	29.9	29	nw.			3		7			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.61	752.0	29.63	752.6	75.2	24.0	97	nne.	2.9	1.3			10 n			0.449	11.4	raining	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.00	762.1	30.05	763.3	59.9	15.5	80	ne.	11	5			10						Oversergent Fischer.
Fanoe	29.99	761.8	30.01	762.3	69.1	20.6	58	e.			4		2						Overloerer Lauridsen.
Godthaab, Greenland	29.95	760.6	29.99	761.7	33.8	1.0	98	sw.			2		10					foggy	S. Kleinschmidt.
Jacobshavn, Greenland	29.85	758.3	29.90	759.5	35.6	2.0		sw.			2		10					raining	
Stykkisholm, Iceland	29.90	759.5	29.95	760.6	48.2	9.0	88	e.			2		0						A. O. Thoriacius.
Thorshavn	29.89	759.2	29.91	759.8	50.7	10.4	100	se.	7	3			10					rain & fog	Overloerer Bergh.
Vestervig	29.96	761.0	30.05	763.3	65.1	18.4	63	ne.			4		2						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.82	757.5			86.4	30.2		n.	1.3	0.6		0	0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.44	747.7	30.08	763.9	69.1	20.6	80	nw.			1		kn			0.280	7.1		M. Labroue, Director.
Alençon, Normal School	29.36	745.7	29.91	759.7	69.4	20.8	68	sw.			1		k		ne.	0.31	8.		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.93	760.2	30.01	762.2	77.4	25.2	64	s.			1		5		se.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.40	746.7	29.94	760.4	59.5	15.3	87	nnw.			1	0	8 kn			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.62	752.4	29.88	759.0	68.7	20.4	78	sw.			7		10		sw.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.02	737.2	29.89	759.2	74.3	23.5	64	sw.			2		10 cn		ne.			raining	M. Gobin, Director.
Bordeaux, Observatory	29.73	755.1	29.98	761.6	69.4	20.8	56	sw.			1		8			0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.37	746.1	29.90	759.5	70.7	21.5	65	wnw.			4		n		wnw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.69	754.2	29.94	760.4	65.8	18.8	77	sw.			2		6		sw.	0.177	4.5		M. de Kermarée, Dir.
Caen, Normal School	29.74	755.3	29.81	757.1	74.5	23.6	61	sse.			1		5		sse.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.51	749.6	29.82	757.4	76.5	24.7	76	sw.			4		5		ssw.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.35	745.5	29.84	757.9	80.2	26.8	54	sse.			2		5		nnw.	0	0	½ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.61	726.6	29.91	759.6	73.9	23.3	62	ne.			1		8			0.630	16.0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.11	739.5	29.94	760.4	64.4	18	71	w.			2		10			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.04	737.6	29.86	758.4	75.2	24	48	se.			1		kn	se.	se.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.47	697.8	29.91	759.8	73.4	23	43	ne.			1	0	1 k			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.91	734.3	29.99	761.8	74.8	23.8	49	s.			2		5		s.	0	0		M. Kina, Director.
Grenoble. Normal School	29.20	741.6	29.91	759.6	71.2	21.8	62	nw.			1	ck	0	se.		0	0		M. Ablard, Director.
Guéret, Normal School	28.41	721.5	29.93	760.3	64.4	18	80	wsw.			3	2 ck	0	sw.		0	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.82	757.4	30.09	764.2	64.4	18	76	ssw.					k		ssw.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.43	747.6	29.95	760.8	66.9	19.4	76	w.			1	0	8 kn			0.677	17.2	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.82	757.4	29.92	760.0	63.3	17.4	67	wsw.			2		8	sw.	w.	0.118	3.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.92	734.5	29.95	760.6	69.6	20.9	56	e.			1	5 ck	0			0	0	cloudy	M. André, Director.
Mans, Normal School	29.61	752.0	29.91	759.7	67.5	19.7	84	sse.			3		8		w.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.75	755.6	30.02	762.4	73.8	23.2	48	sse.			1		4		sw.	0	0		M. Stephan, Director.
Montlouis	24.87	631.8	29.72	754.8	60.8	16.0	24	w.	11.2	5.0			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.81	757.1	29.93	760.2	84.6	29.2	63	e.			3		8		e.	0	0	very cloudy	M. Galzin, Director.
Nancy, Normal School	29.10	739.2	29.86	758.4	69.1	20.6	91	ese.			2	ck	0			0	0		M. Hasse, Director.
Nantes, Observatory	29.79	756.7	29.95	760.8	63.5	17.5	85	wsw.			1-2	0	10 kn;n		wsw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.87	758.8	29.98	761.5	72.7	22.6	66	ne.	11.2	5.0			9	w.	s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.31	541.3			42.4	5.8		sw.			3		5		sw.	0.787	20.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.94	735.1	29.97	761.3	69.8	21	62	s.			1		10 k		n.	0.063	1.6	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.16	639.1			53.6	12.0	98	sw.			2		10			0.228	5.8	covered	M. Alluard.
Rochefort, Naval Obs'y	29.91	759.7	29.94	760.5	69.1	20.6	67	sw.			4		10	w.	sw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.71	754.7	29.92	760.0	65.5	18.6	86	s.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.89	708.5	29.98	761.5	67.1	19.5		nw.			1	0	1 kn		ne.	0.028	0.7	clear	M. Seger, Director.
Rouen, Normal School	29.84	757.9	29.89	759.1	65.5	18.6	88	s.			1		8	se.		0.075	1.9	very cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.73	755.1	29.89	759.2	63.9	17.7	88	calm			0		10		ssw.	0.161	4.1		M. Renou, Director.
Toulouse, Observatory	29.33	744.9	30.05	763.3	70.3	21.3	78	s.			1		8	nw.		0.291	7.4	very cloudy	M. Baillaud, Director.
Tours	29.74	755.4	29.92	759.9	67.6	19.8	68	ssw.			1		8	sw.	sw.	0.260	6.6	almost cov'd	M. de Tastes.
Versailles, Observatory	29.41	746.9	29.90	759.4	66.2	19.0	81	sw.			1					0.764	19.4		Dr. A. Bèrigny, Director
Sub-series.																			
St. Martin du Hinx	29.89	759.1	30.04	762.9	70.5	21.4	69	w.	9.8	4.4		0	3 k		wnw.	0.031	0.8		M. Cartier, Director.
GERMAN.																			
Ansbach	28.54	724.8	29.91	759.8	74.8	23.8	44	calm			0		2			0	0		Prof. Jnedt.
Bamberg	29.10	739.0	29.94	760.4	76.3	24.6	33	s.			1	0	3 ks		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.87	758.8	30.02	762.4	63.3	17.4	70	ne.			2		10			0	0		Dr. Sensch.
Breslau	29.49	749.1	30.02	762.6	58.5	14.7	76	wnw.			2		10			0.016	0.4		Royal University Obs'y.
Carlsruhe	29.45	747.9	29.88	759.0	78.8	26.0	40	e.			2		5	sw.		0.039	1.0		Albert Senz.
Cassel	29.21	741.8	29.92	759.9	82.9	28.3	28	s.			2		4	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			29.90	759.4	75.4	24.1	55	wsw.			1		8			0	0		Physical Society.
Friedrichshafen	28.56	725.4	29.92	760.0	70.5	21.4	69	ssw.			2		4	s.		0.398	10.1		Wilhelm, Chief Tel.
Hamburg	29.89	759.2	29.98	761.5	71.4	21.9	63	ne.			3		4			0	0		E. Preller.
Kiel	30.00	762.1	30.02	762.5	64.4	18.0	62	ne.			2		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.2	29.98	761.6	70.2	21.2	43	ne.			1		5	ene.		0	0		H. Leppig, Asst.
Magdeburg	29.78	756.4	29.96	761.0	73.4	23.0	43	calm			0		3	w.		0	0		Weather Observatory
Memel	29.99	761.7	30.04	762.9	57.2	14.0	90	e.			3		10					light rain	Issermann.
Munich	28.17	715.5	30.03	762.8	72.1	22.3	44	e.			2		3	sw.		0	0		Central Station.
Neufahrwasser	29.97	761.3	29.99	761.7	57.6	14.2	93	nw.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.37	745.9	29.89	759.2	79.3	26.3	58	calm			0		5			0	0		Dicknether.
Stuttgart	28.97	735.9	29.82	757.4	77.0	25.0	40	s.			1		3	sw.		0.043	1.1		Prof. Dr. Schoder.
Wustrow	30.06	763.6	30.09	764.2	60.3	15.7	75	n.			2		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.60	751.8	29.97	761.3	78.4	25.8		sw.			1.0		4 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.45	747.9	29.50	749.2	93.0	33.9	67	wsw.	26.0	11.6			9			0	0	d. clouds	
Deesa	29.02	737.2	29.48	748.7	99.3	37.4	33	se.	12.0	5.4			2	se.		0.18	4.6	d. clouds	
Bombay	29.59	751.6	29.63	752.5	79.9	26.6	90	sw.	25.0	11.2			10		ssw.	0.25	6.4	overcast	
Poona, Yarrowda	27.82	706.7	29.68	753.8	74.9	23.8	92	sw.	14.0	6.3			10			0.48	12.2	overcast	
Trichinopoly	29.51	749.4	29.78	756.4	90.5	32.5	52	s.	1.0	0.4			5	nne.	nne.	0	0	d. clouds	
Belgaum	27.22	691.4	29.78	756.5	68.6	20.3	89	wsw.	16.0	7.2			10	s.	w.	1.24	31.5	d clouds	
Lahore	28.67	728.1	29.35	745.5	112.3	44.6	16	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.64	727.4	29.51	749.6	90.8	32.7	68	e.	5.0	2.2			2		e.	3.30	83.8		
Agra	28.95	735.4	29.50	749.3	92.0	33.3	61	ne.	2.0	0.9			8		e.	0.21	5.3	d. clouds	
Nagpur	28.55	725.1	29.56	750.8	91.2	32.9	49	s.	10.0	4.5			5		w.	0	0	d. clouds	
Jubbulpore	28.24	717.4	29.57	751.1	86.6	30.3	63	s.	6.0	2.7			8		s.	0	0	d. clouds	
Lucknow	29.15	740.4	29.52	749.7	93.0	33.9	57	ene.	6.0	2.7			10			0	0	overcast	
Allahabad	29.20	741.8	29.50	749.4	94.7	34.8	59	ene.	6.0	2.7			10			0	0	overcast	
Patna	29.41	747.0	29.59	751.6	86.6	30.3	77	se.	5.3	2.4			10	se.	se.	0	0	overcast	
Hazaribagh	27.63	701.7	29.62	752.2	79.5	26.4	83	se.	7.5	3.4			10			0.45	11.4	thund'r st'm	
Cuttack	29.55	750.6	29.63	752.7	83.0	28.3	86	calm	0	0			4			0.12	3.0	d. clouds	
Calcutta, Alipore	29.62	752.4	29.65	753.0	83.5	28.6	83	s.	3.0	1.3			8		s.	0.41	10.4	d. clouds	
Dhubri	29.56	750.6	29.67	753.5	79.7	26.5	92	calm	2.0	0.9			9	sw.		0.42	10.7	d. clouds	
Chittagong	29.62	752.4	29.71	754.7	80.9	27.2	87	sw.	2.9	1.3			8			0.01	0.3	d. clouds	
Sibsagar	29.41	746.9	29.74	755.4	79.6	26.4	90	ne.	4.0	1.8			10	w.	w.	1.71	43.4	d. clouds	
Jeypore	28.08	713.2	29.46	748.4	96.7	35.9	50	ssw.	4.7	2.1			7		s.	0.20	5.1	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.13	765.3	30.15	765.9	82.5	28.1	50	sse.	9.2	4.1			6			0	0	d. clouds	
Bellary	28.25	717.5			79.6	26.4	69	w.	16	7.2		2 ck	8			0	0	overcast	
ITALIAN.																			
Udine	29.60	751.8	30.00	761.9	76.8	24.9	52	sw.	3.1	1.4			2			0	0		Prof. Giovanni Clodig.
Milan	29.48	748.9	29.98	761.6	78.1	25.6	35	sw.	5.6	2.5			1			0	0		Prof. G. V. Schiapparelli.
Padua	29.84	758 0	29.95	760.7	79.2	26.2	44	sw.	1.3	0.6			5	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.08	738.5	29.95	760.8	75.6	24.4	50	ne.	3.1	1.4			6	ne.		0.327	8.3		Prof. F. F. Denza.
Genoa	29.85	758.3	30.04	763.0	70.7	21.5	66	se.	6.9	3.1			4	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.10	713.8	29.96	760.9	72.1	22.3	60	se.			2		2	wsw.		0	0		Prof. D. C. Bruno.
Pesaro	29.95	760.6	29.99	761.8	75.2	24.0	56	se.	9.4	4.2			1			0	0		Prof. Luigi Guidi.
Florence	29.78	756.3	30.03	762.7	76.5	24.7	44	sw.			2		2			0	0		Prof. Costantino Pittei.
Leghorn	29.92	760.0	30.00	762.1	74 1	23.4	67	s.	1.8	0.8			1			0	0		Prof. P. Monte.
Rome	29.90	759.4	30.07	763.7	78.4	25.8	37	sw.	8.1	3.6			0			0	0		Prof. P. Tacchini.
Lecce	29.78	756.5	30.03	762.7	81.7	27.6	23	ne.	9.4	4.2			1	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.16	740.7	30.01	762.3	83.1	28.4	66	w.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.81	757.1	30.00	761.9	78.8	26.0	41	se.	1.8	0.8			0			0	0		Prof. A. Pacinotti.
Palermo	29.83	757.7	30.08	763.9	73.8	23.2	55	ne.	8.7	3.9			0			0	0		Prof. G. Cacciatore.
Syracuse	29.98	761.5	30.02	762.6	80.2	26.8	54	s.	18.1	8.1			0			0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.57	751.0	30.08	763.9	75.7	24.3	64	sw.	1.8	0.8			1			0	0		Prof. F. Brioschi.
Stelvio	22.28	565.8			47.8	8.8	58	se.			2		5			0.366	9.3	misty	Prof. P. F. Denza.
Valdobbia	22.28	565.8			48.6	9.2	68	e.			2		10			0.083	2.1	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.72	754.8	29.75	755.7	66.3	19.1	64	se.			2	0	0			0	0	clear	H. Hattori.
Awomori	29.75	755.6	29.78	756 4	61.3	16.3	75	ne.	4.5	2.0		0	0			0	0	clear	K. Ogawa.
Hamamatsu	29.71	754.6	29.74	755.3	66.6	19.2	86	e.			6		10 s		e.	0.094	2.4	overcast	Y. Sekigawa.
Kanazawa	29.56	750.8	29.66	753.3	71.0	21.7	78	e.	1.9	0.8		2 ck	8 ks			0.410	10.4	cloudy	S. Endo.
Kagoshima	29.66	753.3	29.67	753.6	77.7	25.4	93	w.			2		10 s			0.642	16.3	overcast	G. Miyanohazu.
Kioto	29.53	750.0	29.70	754.4	66.3	19.1	90	nne.	3.1	1.3			10 n			0.686	17.4	light rain	M. Tojima.
Kochi	29.65	753.1	29.67	753.6	67.9	19.7	99	w.	6.4	2.9			10 n			0.78	19.9	raining	K. Kusunose.
Miasaka	29.62	752.4	29.65	753.1	73.7	23.2	97	nne			1		10 n		w.	0.449	11.4	raining	K. Masusaki.
Miyako	29.76	755.9	29.87	758.7	55.0	12.8	93	w.	0.4	0.2		0	0			0	0	clear	N. Honno.
Nagasaki, I. M. Obs'y	29.45	748.0	29.65	753.1	71.3	21.8	95	sw.	5.1	2.2			10 s			1.630	41.4		S. Takehayashi.
Niigata	29.65	753.1	29.69	754.1	70.1	21.2	66	se.	15.9	7.1		0	9 ks;s		w.	0.030	0.8	cloudy	M. Morita.
Nobiru	29.83	757.6	29.84	758.0	64.1	17.8	84	se.	12.5	5.6			10 s			0.050	1.3	covered	H. Midzushina.
Numazu	29.75	755.6	29.78	756.5	60.5	20.8	66	ene.			2		10n;ks			0.173	4.4	light rain	R. Kaneda.
Osaka	29.66	753.2	29.67	753.6	67.9	19.9	83	ne.	10.0	4.5			10 s			0.500	12.7	cloudy	H. Omura.
Sakai	29.57	751.0	29.58	751.2	70.5	21.4	76	se.			2		10 ks		s.	0.008	0.2	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	29.72	754.8	29.79	756.6	70.6	21.4	73	sse.	6.8	3.0			10s;ks		se.	0.170	4.3	overcast	The Staff.
Wakayama	29.61	752.0	29.66	753.3	70.3	21.3	76	sw.	0.6	0.3			10ck;s			0.146	3.7	cloudy	K. Sakai.
Shimonoseki	29.47	748.6	29.62	752.3	67.7	19.8	98	calm			0		10 n			0.220	5.6	raining	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	71.2	21.8	69	se.	27.5	12.3		0	4 n;ks		se.	0.02	0.5	fair	The Staff.
MEXICAN.																			
Guanajuato	23.65	600.8	29.87	758.8	60.3	15.7	75	e.	inap.	inap.		2 cs	0	n.		0	0	clear	Prof. Vicente Fernandez
Leon	24.30	617.2	29.92	760.0	61.5	16.4	83	sw.	0.9	0.4		1 c	6 ck	ne.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.61	752.1	29.87	758.6	81.0	27.2	83	se.	5.3	2.3			10 n		se.	0	0	overcast	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					84	28.9	82	se.	7.0	3.1			9 k		se.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.87	758.8	29.87	758.8	62.6	17.0		nne.			2					0	0		
Groningen	29.86	758.5	29.92	759.9	73.6	23.1		e.			2					0	0		
Helder	29.89	759.2	29.89	759.2	66.6	19.2		e.			2					0.197	5.0		
Hellevoetsluis	29.87	758.7	29.87	758.7	67.3	19.6	72	nw.			2					0.193	4.9		
Utrecht	29.83	757.7	29.88	758.9	78.8	26.0	48	sse.			3		5			0.059	1.5	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.92	759.9			80.2	26.8	77	ene.	0.5	0.2			4			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	30.02	762.6	30.09	764.2	64.0	17.8	58	nnw.	9.	4			8			0	0		
Brono	30.11	764.7	30.15	765.7	74.1	23.4	43	calm			0		9			0	0		
Christiania	30.02	762.6	30.17	766.3	64.2	17.9	49	ne.	4.	2			10					raining	
Gjesvær	30.14	765.5	30.16	766.1	48.2	9.0		w.			6		10						
Lodingen	30.10	764.4	30.14	765.6	72.1	22.3	35	wsw.			4		0			0	0		
PORTUGUESE.																			
Angra, Azores	30.10	764.6	30.26	768.6	66.2	19.0	84	ese.	4.9	2.2			1			0	0		Dr. J. A. Sampaio.
Campo Major	29.10	739.0	30.06	763.5	77.7	25.4	38	nnw.	3.8	1.7			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.14	765.5	30.23	767.8	69.3	20.7	59	sw.	6.9	3.1			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.81	757.2	30.14	765.5	69.8	21.0	54	nnw.	8.7	3.9			3			0	0		The Staff.
Ponta Delgada, Azores	30.19	766.7	30.26	768.5	70.5	21.4	70	ne.	5.6	2.5			4			0	0		
Saint Paul de Loando	29.87	758.7	30.08	763.9	73.4	23.0	91	wnw.			1		1	sse.		0	0		
San Salvador	28.19	716.1	30.05	763.2	71.4	21.9	75	calm			0		10			0	0		
Serra da Estrella	25.39	644.8	30.09	764.2	53.1	11.7	75	nw.	13.6	6.1			6			0	0	light fog	
RUSSIAN.																			
Akmolinski																			Major K. Lasarew.
Archangel	30.28	769.2	30.30	769.7	59.7	15.4	51	wnw.	4	2		0	9 k			0	0		Capt. Sselliwerstow
Ashurada	29.67	753.5	29.57	751.1	94.5	34.7	47	wnw.	4	2			0			0	0		
Astrakhan	29.72	754.8	29.63	752.7	81.0	27.2	46	w.	9	4		0	10 s;n			0	0		Capt. Wisganow.
Baku	29.67	753.6	29.62	752.4	83.1	28.4	74	sse.	9	4			2 k			0	0		
Barnaul	29.06	738.0	29.51	749.6	85.8	29.9	39	ese.	9	4		0	7			0	0		Meteorological Obs'y
Bielosersk	29.82	757.5	30.29	769.3	61.5	16.4	47	nnw.	9	4		0	1 s			0	0		
Dorpat	29.95	760.0	30.19	766.7	63.3	17.4	46	e.	13	6			0			blank	blank		Observatory.
Ekaterinburg	28.82	732.0	29.79	756.6	42.8	6.0	97	ne.	13	6			10			0.717	18.2	raining	Meteorological Obs'y
Elissawetgrad	29.33	744.9	29.76	755.8	71.2	21.8	64	nnw.	4	2			9 kn			0	0		
Irkutsk	28.18	715.8	29.71	754.7	78.8	26.0	47	calm			0		0			0	0		
Kasalinsk																			
Kasan	29.52	749.9	29.79	756.6	59.4	15.2	44	nne.	31	14			10 ks			0	0		Observatory.
Kem	30.29	769.4	30.34	770.7	63.3	17.4	51	w.	13	6		0	5 k			0	0		
Kertch	29.65	753.1	29.67	753.7	72.1	22.3	74	n.	7	3		0	6 n			1.433	36.4		Lagorio & Sastyrea.
Kieff	29.13	739.8	29.73	755.2	70.7	21.5	61	n.	9	4		0	5 ks			0.177	4.5		Observatory.
Koslov	29.33	744.9	29.85	758.3	60.3	15.7	56	ne.	45	20		0	0			blank	blan		
Liban	30.01	762.2	30.03	762.8	55.4	13.0	87	ene.	13	6			10			0.028	0.7	raining	E. Quass.
Lugan	29.39	746.5	29.57	751.0	79.3	26.3	42	wnw.	4	2			9			0.232	5.9		Meteorological Obs'y.
Moscow	29.19?	741.5?	29.65?	753.2?	60.8	16.0	40	s.	13	6		0	0			0.185	4.7		Meteorological Obs'y
Nikolaiev	29.72	754.9	29.80	756.8	77.0	25.0	60	nnw.	4	2		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.77	756.2	29.86	758.4	51.6	10.9	77	ne.	4	2			9			0	0		Iwanow.
Pekin, China	29.35	745.6	29.50	749.2	82.2	27.9	20	nw.	3.4	1.5		0	2 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.32	744.7	29.64	752.8	98.6	37.0	12	calm	0	0			0			0	0		
Petrozavodsk	30.14	765.6	30.34	770.6	60.8	16.0	47	se.	9	4		1 ck	0			0	0		Dr. Bergmann.
Pinsk	29.35	745.5	29.83	757.7	67.6	19.8	77	ene.	13	6		0	8 s			0.016	0.4		
Poti	29.83	757.7	29.86	758.5	72.7	22.6	88	nw.	9	4			10 n			0.409	10.4		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
St. Petersburg	30.30	769.5	30.32	770.1	60.8	16.0	43	ene.	16	7		0	0			0	0		Central Physical Obs'y.
Samarkand	27.30	693.3	29.59	751.5	87.3	30.7	58	calm	0	0		1 ck	0			0	0		
Semipalatinsk	28.91	734.2	29.49	749.1	97.3	36.3	20	sw.	9	4			9			0	0		Major Lasarew
Sevastopol	29.59	751.6	29.81	757 2	70.9	21.6	69	wnw.	27	12		0	5 ks			0.028	0.7		
Staroi Bykhov	29.56	750.7	30.01	762.2	59.9	15.5	74	e.	13	6			10 kn			0.039	1.0		
Tashkend	28.01	711.5	29.53	750.0	94.3	34.6	35	calm	0	0			10 n			0	0		Terch, A. M.
Tiflis	28.32	719.3	29.65	753.1	81.5	27.5	32	nw.	45	20		0	1 k			0	0		Physical Observatory.
Vernoe	27.13	689.0	29.43	747.6	85.6	29.8	29	sw.	7	3		0	8 n			0	0		
Viatka	29.40	746.7	30.02	762.5	56.5	13.6	39	nne.	7	3			2			0	0		
Warsaw	29.45	748.0	29.86	758.4	66.0	18.9	76	n.	9	4			9 kn			0.020	0.5	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.58	751.4	29.86	758.4	66.7	19.3	40	nw.	4	2			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.79	756.7	59	15.0	94	s.			3	0	0			0	0	clear	J. Youngclause.
North Unst			30.01	762.2				se.			6	5	3	s.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.93	760.2	30.03	762.8	75.9	24.4	54	sw.	1.6	0.7		0	1 k			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.02	762.6	30.08	764.1	73.6	23.1	61	nw.	2.9	1.3		4	5	n.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.10	688.3	29.97	761.3	69.8	21.0	48	sw.	3.1	1.4		0	3			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.82	706.6	29.95	760.8	77.7	25.4	27	sw.	14.1	6.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.83	757.6	29.96	761.0	89.2	31.8	48	wnw.	2.9	1.3		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.25	743.0	30.01	762.3	61.7	16.5	87	n.	7.2	3.2		6 kn	4 kn	n.	w.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.14	740.2	30.02	762.4	68.5	20.3	65	sw.	5.6	2.5			8			0.433	11.0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	761.1	30.03	762.8	79.4	26.3	81	e	2.2	1.0		1ck;cs	0	nnw.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.5	29.84	757.9	82.1	27.8	77	ese.	1.1	0.5		1 c	2 kn			0.047	1.2	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	762.0	30.10	764.5	74.7	23.7	65	wnw.	8.1	3.6		0	1		nw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.98	761.5	30.07	763.8	79.9	26.6	91	calm	0	0		1 s	2 k	se.	se.	0	0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.30	769.5	30.34	770 5	62.6	17.0	59	s.			4		2			0	0		
Umea	30.30	769.5	30.35	770.8	65.1	18.4	37	s.			2		9			0	0		
Hernosand	30.25	768.3	30.30	769.6	68.4	20.2	55	se.			2		3			0	0		
Stockholm	30.03	762.7	30.21	767.2	59.0	15.0	49	ene.			7		10			0	0		
Wisby	29.97	761.2	30.03	762.7	59.0	15.0	64	e.			4		7			0.012	0.3		
Sub-series.																			
Upsala	30.12	765.0	30.21	767.2	62.2	16.8	50	ene.	12.3	5.5			9		e.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.58	725.9	29.97	761.2	66.9	19.4	72	s.			2		10			0	0	covered	The Observatory.
TURKISH.																			
Constantinople			29.95	760.6	73.8	23.2	62	nnw.	8	3.5			9		nw.	0	0		The Observatory.
Valona			30.18	766.5	77.9	25.5		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.2	82.8	28.2	48	sw.			3		2 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.72	678.7			62	16.7	72	nw.			1					0	0	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.93	760.2	30.01	762.2	75	23.9	63	s.	8	3.6		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.23	742.4	29.88	758 9	55	12.8	100	calm	0	0			10 n			0.09	2.3	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	29.81	757.2	56	13.3	55	ne.	5	2.2		0	6 k		w.	0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	29.93	760.2	59	15.0	60	ne.	2	0.9		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.77	730.7	29.92	760.0	73.0	22 8	84	calm	0	0		4 c	0	w.		0.20	5.1	fair	Edward A. Beals.
Atlantic City, New Jersey	29.99	761.7	30.00	762.0	72	22.2	75	se.	5	2.2		3 c	hz.			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.76	755.9	29.96	761.0	74.0	23.3	88	s.	1	0.4		2 c;k	0	s.		0.19	4.8	clear	John Healy.
Baltimore, Maryland	29.92	760.0	29.98	761.5	74	23.3	82	se.	7	3.1			10 s		se.	0	0	cloudy	Geo. W. Fisher.
Barnegat City, New Jersey	30.01	762.2	30.03	762 7	74.0	23.3	82	se.	6	2.7		3 c	1 k	s.		0	0	fair	G. A. Hill.
Behring Id., Behring Sea	29.82	757.7	29.85	758.2	41.5	5.3	96	se.	4	1.8			10 n			0.35	8.9	light rain	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.52	724.4	30.06	763.5	65.0	18.3	90	se.	4	1.8		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.11	688.6	29.88	758.9	69	20.6	57	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana																			T. Gibson.
Bismarck, Dakota	28.30	718.8	30.06	763.5	61	16.1	81	e.	10	4.5		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.04	763.0	30.08	764.0	71	21.7	94	se.	7	3.1		2 c	fg	s.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.14	689.3	29.92	760.0	58	14.4		se.	4	1.8		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.92	760.0	30.07	763.8	72.0	22.2	71	sw.	6	2.7		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.00	762.0	81.0	27.2	82	se.	4	1.8		0	0			0.03	0.8	clear	E. C. Imlay.
Buffalo, New York	29.10	739.1	29.84	757.9	69.7	20.9	77	se	4	1.8			10 n		se.	0.02	0.5	light rain	W. Finn.
Buford, Fort, Dakota	28.06	712.7	30.02	762.5	64	17.8	84	se.	3	1.3		0				0	0	clear	A. Schneider.
Burlington, Vermont																			D. N. Farnell.
Cairo, Illinois	29.52	749.8	29.92	760.0	72.7	22.6	86	n.	8	3.6		2 ck	4 ks	w.	nw.	0.60	15.2	fair	W. H. Ray.
Cape Henry, Virginia	29.97	761.2	29.99	761.7	73.0	22.8	90	se.	5	2.2		0	8 ks		s.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.97	761.2	30.00	762.0	70.0	21.1	93	se.	7	3.1		0	7 s		s.	0	0	fair	W. E. Smith.
Cape Mendocino, California	29.35	745 5	30.03	762.7	55	12.8	80	nw.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.95	760.7	29.97	761.2	78	25.6	90	sw.	7	3.1		0	9 k		sw.	0.23	5.8	cloudy	G. W. Davis.
Charleston, S. Carolina	29.89	759.2	29.94	760.5	80	26.7	79	sw.	4	1.8		8 c	0	w.		0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.10	739.1	29.93	760.2	71.0	21.7	90	sw.	4	1.8			10 s		sw.	0.18	4.6	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.11	739.4	29.92	760 0	74.5	23.6	83	sw.	6	2.7		1 cs	8 ks		sw.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.20	614.7	29.94	760.5	52.9	11.6	83	sw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.24	742.7	29.93	760.2	50.5	10.3	85	n.	9	4.0			10 n			0.02	0.5	light rain	John Laurens.
Chincoteague, Virginia	29.98	761.5	30.00	762.0	72	22.2	90	s.	2	0.9		0	7 ks;s		s.	0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.16	740.7	29.81	757.2	74.5	23.6	70	s.	4	1.8		5 ck	5 s			0.17	4.3	cloudy	L. Dunne.
Cleveland, Ohio	29.05	737.9	29.78	756.4	69.3	20.7	88	s.	4	1.8			10 s		sw.	0.04	1.0	cloudy	J. B. Newlin.
Coleman City, Texas	28.21	716.5	29.96	761.0	72	22.2	71	s.	1	0.4		0	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	28.94	735.1	29.78	756.4	68	20.0	90	se.	3	1.3			10 s		s.	1.08	27.4	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.07	713.0	29.94	760.5	72.0	22.2	68	w.	3	1.3		3 cs	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.30	744.2	29.94	760.5	61	16.1	84	n.	13	5.8		0	3 ks		nw.	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	29.86	758.4	70	21.1	57	s.	3	1.3		0	6 s		sw.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.18	715.8	29.92	760.0	63	17.2	45	w.	4	1.8		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.47	646.9	29.91	759.7	54	12.2	65	calm	0	0		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del	29.99	761.7	30.01	762.2	68	20.0	93	e.	4	1.8			1c s		e.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.86	631.4	29.90	759.4	64.0	17.8	65	s.	1	0.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.05	763.3	57	13.9	86	n.	3	1.3		0	0			0.02	0.5	clear	F. W. Conrad.
Detroit, Michigan	29.11	739.4	29.80	756.9	66.0	18.9	90	n.	5	2.2			10 s			0.07	1.8	cloudy	E. R. Brace.
Dodge City, Kansas	27.52	699.0	30.04	763 0	63	17.2	100	e.	4	1.8			fg.			inap.	inap.	dense fog	D. J. Carr.
Dubuque, Iowa	29.28	743.7	29.97	761.2	57.8	14.3	71	nw.	4	1.8		3 k	6 ks	sw.	nw.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.40	746.7	30.12	765.0	52	11.1	80	calm	0	0			10 s			0.01	0.3	cloudy	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho																			H. R. Boynton.
Eastport, Maine	30.02	762 5	30.09	764.3	55.0	12.8	93	s.	4	1.8			fg.		s.	0	0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.29	693.2	29.96	761.0	62	16.7	58	n.	4	1.8		0	0			0.02	0.5	clear	W. J. Cundall.
El Paso, Texas	26.27	667.2	29.86	758.4	77.0	25.0	41	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.08	738.6	29.80	756.9	72	22.2	76	s.	8	3.6			10 s		s.	inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.32	744.7	29.97	761.2	48.0	8.9	86	n.	16	7.2			10 s		n.	0	0	cloudy	George Heathcote.
Galveston, Texas	29.92	760.0	29.96	761.0	83	28.3	74	s	3	1.3		3 cs	4 ks		se.	0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.21	741.9	29.86	758.4	55.0	12.8	86	nw.	10	4.5			10 s		nw.	0	0	cloudy	J. E. Mueller.
Grant, Fort, Arizona					76.8	24.9	20	ne.	4	1.8		2 ck	2 s			0	0	fair	Robert C. Lord.
Hatteras, North Carolina	29.97	761.2	29.99	761.7	77	25.0	76	e.	1	0.4		3 c	4 ks	ne.	e.	0	0	fair	R. M. Crawford.
Helena, Montana	25.79	655.1	29.91	759 7	58	14.4	33	sw.	2	0.9		0	0			0	0	clear	H. W. Dodge.

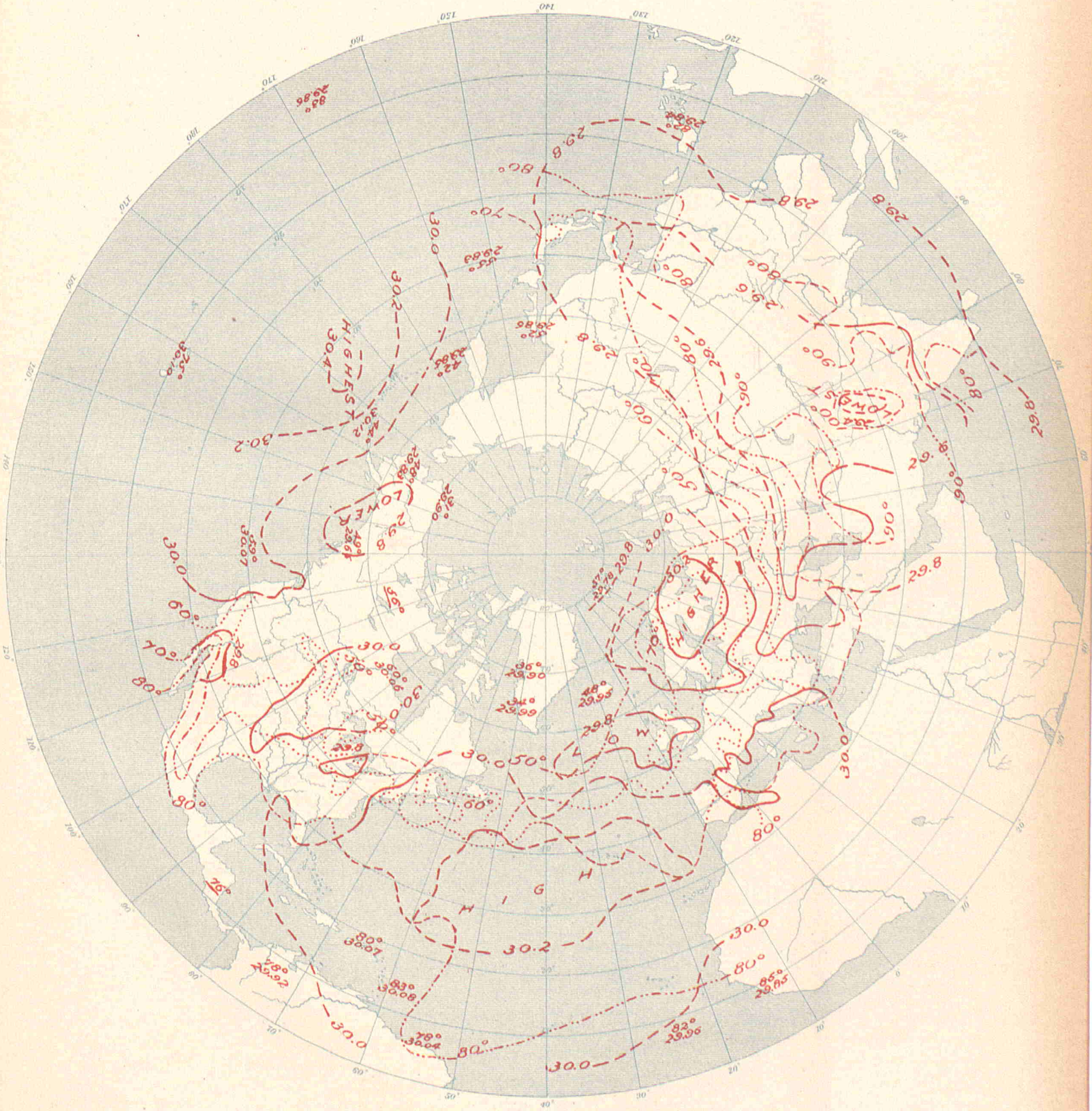
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.75	730.2	30.09	764.3	57.9	14.4	79	e.	2	0.9		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.02	737.1	29.80	756.9	66.0	18.9	84	n.	8	3.6		2 ck	7 s	w.	n.	0.03	0.8	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.90	759.4	29.93	760.2	80.2	26.8	87	s.	4	1.8		0	2 ks			0	0	clear	I. A. Reed.
Jacksonville Florida	29.93	760.2	29.97	761.2	81.0	27.2	76	s.	3	1.3		2 cs	0			0.24	6.1	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.34	745.2	29.98	761.5	63.0	17.2	78	n.	8	3.6		1 k	0	nw.		inap.	inap.	clear	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	86.5	30.3	66	calm	0	0		2c;cs	0			0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	74	23.3	84	se.	2	0.9		4 cs	0	w.		0	0	fair	H. Mc P. Baldwin
Knoxville, Tennessee	28.90	734.0	29.91	759.7	72.8	22.7	77	sw.	5	2.2		4 ck	1 ks	sw.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.25	742.9	30.01	762.2	54	12.2	72	n.	16	7.2			10 s		nw.	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.19	741.4	30.06	763.5	63	17.2	73	n.	5	2.2		0	0			0.31	7.9	clear	A. W. Browne.
Lewiston, Idaho	29.03	737.3	29.85	758.2	60.0	15.6	65	calm	0	0		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.59	751.6	29.90	759.4	75	23.9	93	w.	4	1.8		2 c	0			inap.	inap.	clear	W. U. Simons.
Los Angeles, California	29.51	749 5	29.90	759.4	57	13.9	80	ne.	3	1.3		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.23	742.4	29.78	756.4	76	24.4	82	sw.	7	3.1			10 ks		sw.	inap.	inap.	threatening.	L. M. Dey.
Lynchburg, Virginia	29.24	742.7	29.91	759.7	74	23.3	82	s.	2	0.9			10 s		s.	0.04	1.0	cloudy	Lou's Duane.
Mackinaw City, Michigan	29.29	744.0	29.93	760.2	55.0	12.8	86	n.	6	2.7			10 s			0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.97	761.2	29.98	761.5	75.0	23.9	85	e.	8	3.6		3 cs	0	w.		0	0	clear	William Daly.
Maginnis, Fort, Montana	25.63	651.0	29.96	761.0	68	20.0	31	sw.	4	1.8		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.33	745.0	30.05	763.3	44	6.7	93	n.	12	5.4			10 n			0.04	1.0	light rain	J. Gilligan.
Memphis, Tennessee	29.50	750.8	29.89	759.2	72	22.2	90	w.	1	0.4		1 c	0	sw.		0.25	6.3	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.21	741.9	29.95	760.7	51	10.6	86	n.	17	7.6			10 s		n	0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.89	759.2	29.93	760.2	77.2	25.1	86	sw.	1	0.4		7ck;cs	1 ks	w.		0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.64	752.8	29.87	758.7	73.2	22.9	88	w.	2	0.9		5 k	3 k	w.	w.	0.85	21.6	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.17	740.9	30.14	765.5	46	7.8	83	n.	2	0.9		2.c	0	n.		0	0	clear	H. White.
Mt. Washington, N. H.	24.02	610.1	30.14	765.5	53.0	11.7	84	w.	12	5.4		1 c	0	w.		0	0	clear	S. W. Beall.
Nashville, Tennessee	29.29	744.0	29.85	758.2	75.0	23.9	85	sw.	5	2.2			10 ks		w.	0.10	2.5	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.94	760.5	30.05	763.3	67	19.4	90	sw.	2	0.9		0	6 k		sw.	0	0	fair	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.11	764.8	66	18.9	93	calm	0	0			10s;fg			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.89	759.2	29.94	760.5	76.5	24.7	84	w.	5	2.2		8 cs	2 s	w.	w.	0.22	5.6	cloudy	M. Herman.
New York, New York	29.89	759.2	30.06	763.5	70	21.1	84	e.	3	1.3		5 cs	fg.	se.		0	0	fair	G. E. Franklin.
Norfolk, Virginia	29.94	760.5	29.97	761.2	72.5	22.5	66	se.	5	2.2		3 cs	2ks;hz	sw.	sw.	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.21	691.1	30.01	762.2	67.6	19.8	88	se.	8	3.6		0	8 s			0.02	0.5	cloudy	E. F. Brady.
Olympia, Washington T'y	30.01	762.2	30.05	763.3	44.0	6.7	68	s.	4	1.8		10 k	0	sw.		0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28 96	735.6	30.10	764.5	61.7	16.5	85	n.	2	0.9		0	0			0.57	14.5	clear	A. Pollak.
Ooglaamie, Alaska	29.88	758.9	29.90	759.4	30.8	— 0.7	100	ene	27	12.1			10 s		ene.	0	0	cloudy	P. H. Ray.
Oswego, New York	29.57	751.1	29.89	759.2	72.0	22.2	76	s.	6	2.7		0	9 k		sw.	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.47	748.5	30.01	762.2	75.0	23.9	76	calm	0	0		0	0			0	0	clear	J. W. Byram.
Pensacola, Florida	29.90	759.4	29.93	760.2	76.3	24.6	85	sw.	2	0.9		9 cs	0	w.		0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.93	760.2	30.03	762.7	69.5	20.8	97	se.	3	1.3		0	6 s		se.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	18.17	461.5	29.99	761.7	35	1.7	79	sw.	16	7.2		0	0			0.07	1.8	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.03	737.3	29.82	757.4	71.5	21.9	79	se.	6	2.7			10 s		sw.	inap.	inap.	cloudy	W. A. Reid.
Poplar River, Montana	27.86	707.6	29.96	761.0				s.			4	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.10	739.1	29.77	756.1	59.0	15.0	96	n.	8	3.6			fg.			0.07	1.8	dense fog	M. H. Perry
Portland, Maine	29.98	761.5	30.03	762.7	70.0	21.1	78	s.	2	0.9		3 c	0	w.		0	0	clear	W. W. Eichelberger
Portland, Oregon	29.93	760.3	30.00	762.0	60.0	15.6	75	sw.	4	1.8			10 s		s.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					75	23.9	76	se.	1	0.4		3 c	hz			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.84	630.9	29.86	758.4	55.0	12.8	33	sw.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.06	763.5	30.09	764.3	68	20.0	90	sw.	7	3.1		1 c	fg.		sw.	0	0	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.63	752.6	29.98	761.5	65	18.3	54	e.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.49	749.0	30.04	763.0	59.2	15.1	74	n.	1	0.4			10 k		nw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.87	758.7	29.94	760.5	59.5	15.3	73	se.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.35	745.5	29.94	760.5	65.8	18.8	90	nw.	12	5.4			9 s		nw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.80	756.9	29.83	757.7	48	8.9	86	nw.	22	9.8			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.22	742.2	30.06	763.5	58.5	14.7	77	e.	3	1.3			10 s		e.	0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	29 29	744.0	30.14	765.5	54	12.2	86	sw.	1	0.4		0	5 k			0	0	fair	C. B. Dilley
Salt Lake City, Utah	25.66	651.8	29.88	758.9	66	18.9	35	sw.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.78	756.4	29.85	758.2	61.5	16.4	92	n.	3	1.3		0	0			0	0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	30.00	762.0	30.03	762.7	70.0	21.1	90	se.	7	3.1		1 ck	0	se.		0	0	clear	B. A. Blundon.
Sanford, Florida	29.91	759.7			80.5	26.9	82	sw	1	0.4		6 c	0			0.46	11.7	fair	J. B. Marbury.
San Francisco, California	29.95	760.7	30.02	762.5	53	11.7	90	sw.	5	2.2			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.86	758.4	29.95	760.7	79	26.1	69	sw.	2	0.9		1 ck	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	20.34	669.0	29.92	760.0	51	10.6	80	w.	6	2.7		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.70	754.4	29.93	760.2	75.8	24.3	85	se.	3	1.3		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.86	733.0	30.00	763.5	68	20.0	87	n.	18	8.0			10 n			1.00	25.4	heavy rain	W. M. Mattingly.
Sitka, Alaska	29.60	751.8	29.66	753.4	49	9.4	71	e	16	7.2			10 ks		e.	0.09	2.3	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.50	749.3	29.96	761 0	70.5	21.4	94	s.	2	0.9		4 c	0	w.		0.35	8.9	fair	J. B. Campbell.
Smithville North Carolina	29.92	760.0	29.96	761.0	78.5	25.8	80	sw.	5	2.2		3 cs	5 ks		w.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.92	709.2	29.96	761.0	55	12.8	69	calm	0	0		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.24	742.7	29.92	760.0	66.5	19.2	90	n.	5	2.2		0	4 s		w.	0.05	1.3	fair	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	27.02	686.3	29.94	760.5	73	22.8	58	se.	6	2.7		2 ck	0	se.		0	0	clear	A. J. Warren.
Thomas, Camp, Arizona					71	21.7	43	calm			0	9 ck	0			0	0	cloudy	J. L. Whiteside.
Toledo, Ohio	29.09	738.9	29.77	756.1	68	20.0	90	n.	4	1.8			10s:fg			0.03	0.8	dense fog	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	30.10	764.5	30.12	765.0	44	6.7	76	nw.	4	1.8			8 k			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					67	19.4	31	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.69	754.1	29.94	760.5	75.0	23.9	85	w.	7	3.1			10 s			1.66	42.2	cloudy	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.86	758.4	29.97	761.2	71.7	22.1	82	se.	5	2.2			10 s		sw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.18	665.0	29.95	760.7	65.5	18.6	86	calm	0	0		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.91	759.7	29.96	761 0	78.5	25.8	82	s.	4	1.8		4ck; k	5 s	sw.	sw.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.84	732.5	30.12	765.0	60	15.6	70	ne.	11	4.9		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.55	750.0	29.69	754.1	80.0	26.7	56	ne.	4	1.8		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.05	763.3	80	26.7	69	calm	0	0		0	0			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.0	86	e.			3	5 k	7 ks	e.		0.450	11.4		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.36	745.7	29.92	760.0	78	25.0	95	n.			1	0	2 s		s.	0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					70	24.4	91	ne.			1		ks		ne.	0.33	8.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Walloe
York Factory, B. A.	30.00	762.0	30.06	763.5	60.0	15.0	94	nw.	7	3.1		1 cf	0	nw.		0	0	fair?	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 45° 20′, E. 12° 22′	29.98	761.5	75	23.9	77	ese.			1		1	ese.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.01	762.2	75	23.9	86	sse.			4		9	sse						squally.
H. M. S. Gannet, N. 46° 45′, W. 11° 35′	29.88	758.9	59.5	15.3	70	w.			5		3	w.				3	var.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.95	760.7	77	25.0	82	nnw.			3		0							blue sky
S. S. Monarch, N. 45° 10′, W. 14° 16′	29.93	760.2	72	22.2		sse.			1		0							blue sky.
H. M. S. Minotaur, Arosa Bay, Spain	30.12	765.0	65.5	18.6	78	wsw.			2		2	sw.				1	wnw.	blue sky.
H. M. S. Opal, N. 5° 22′, W. 11° 40′	30.02	762.5	80	26.7	78	s.			4		4	ssw.				2	ssw.	d. clouds
H. M. S. Tyne, N. 4° 23′, W. 4° 35′	30.04	763.0	80	26.7	78	wsw.			3		9	ssw.				2	ssw.	d. clouds.
H. M. S. Thetis, N. 47° 12′, W. 8° 25′	29.86	758.4	62	16.7	83	wsw.			4		4	wsw.				3	w.	d. clouds.
H. M. S. Tenedos, Great Jervis Harbor, N. F	30.17	766.3	58	14.4	88	sw.			1		6	sw.						d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	29.99	761.7	72	22.2	80	calm	0	0			0			0	0			clear.
U. S. S. Constellation, N. 36° 67′, W. 75° 54′*	30.00	762.0	73	22.8	81	se.			3		8					sm'h		cloudy.
U. S. S. Dale, N. 36° 58′, W. 75° 55′	29.97	761.2	73	22.8	90	se.			3		5					sm'h		fair.
U. S. S. Lancaster, Stockholm, Sweden	30.20	767.1	58	14.4	82	ne.			3		2		se.			sm'h		fair.
U. S. S. Nipsic, N. 39° 29 W. 50° 43′*	30.28	769.1	73	22.8	90	wsw.			5		2		sw.			sm'h		clear.
U. S. S. Portsmouth, Newport, R. I.	30.09	764.3	64	17.8	100	calm			0									foggy
U. S. S. Powhatan, N. 28° 14′. W. 80° 18′	29.97	761.2	80	26.7	91	w.			2		2					long	w.	fair.
U. S. S. Saratoga, Newport, R. I.	30.15	765.8	66	18.9	89	sw.			1–2		10		sw.	light	light	sm'h		foggy.
U. S. S. Vandalia, 24° 58′, W. 73° 46′	30.04	763.0	80	26.7	91	nw.			2		8		w.			sm'h		cloudy.
U. S. S. Yantic, St. Johns, N. F	30.08	764.0	64	17.8	83	w.			2		5							fair.
Cottica, N. 27° 08′, W. 56° 34′	30.26	768.6	80	26.7	78	ene.			5		3							blue sky.
May Hulse, N. 14° 20′, W. 32° 58′	30.11	764.8	78.5	25.8	78	nne.			5		5							d. clouds.
S. S. St. Kilda, N. 14° 24′, W. 60° 40′	30.07	763.8	80.3	26.8	80	e.			3		4							showery.
H. P. M. S. Rio Lima, N. 24° 53′, W. 20° 04′	30.07	763.8	71.6	22.0	83	ne.			2		6		ne.			3		d. clouds.
S. S. Illinois, Liverpool, Eng	29.80	756.9	57	13.9		s.			2		9		sse.					cloudy.
S. S. Lord Clive, N. 49° 04′, W. 25° 36′						n.			3		9		nw.	0	0	sli't	n.	cloudy.
S. S. Lord Gough, N. 51° 15′ W. 16° 30′	29.75	755.6	56	13.3		wnw.			4		8		wnw.	0	0	mod.	w.	cloudy.
S. S. Ohio, N. 44° 53′, W. 34° 15′ †	30.15	765.8	66	18.9		wsw.			2		10		nw.	0	0	mod.	w.	cloudy.
S. S Pennsylvania, N. 41° 35′, W. 46° 50′†	30.26	768 6	74	23.3		w.			3		3		sw.	3 h'r	3 h'r	mod.	s.	clear.
S. S. Grecian, N. 52° 50′ W. 34° 51′	29.68	753.9	49	9.4	100	sse.			4		10			19 h'r	19 h'r	sm'h		overcast.
S. S. Scandinavian, N. 42° 52′, W. 60° 17′	30.14	765.5	58	14.4		ne.			1							light	ssw.	showery.
S. S. Polyhesian, Green Island, St. Lawrence river	30.09	764.3	58	14.4		ene.			3		9		wnw.	0	0	sm'h	s.	cloudy.
S. S. Prussian, N. 42° 55′, W. 66° 44′	30.07	763.8	58	14.4		calm			0		2			0	0	sm'h		clear.
S. S. Manitoban. N. 48° 43′, W. 62° 34′	30.10	764.5	54	12.2	80	nnw.			2		4		n.	0	0	sm'h	n.	clear.
S. S. Sardinian, N. 48° 06′, W. 60° 55′	30.00	762.0	53	11.7		s.			2		fg.			0	0	sm'h		foggy.
S. S. Alvo, off Jacmel, Hayti, W. I*	30.04	763.0	81	27.2		e.			6		7		e.	0	0	short	se.	fine.
S. S. Andes, N. 29° 30′, W. 74° 00′ *†	30.06	763.5	83	28.3		calm			0					0	0			fine.
S. S. Alene, Port Limon, Costa Rica†	29.92	760.0				var.			1–3		8		calm	0	0	mod.	e.	cloudy.
S. S. Dorian, N. 38° 53′, E. 0° 35′	30.06	763.5	73	22.8		wsw.			2		0			0	0	mod.	wsw.	clear.
S. S. Furnesia, New York, N. Y. †	29.96	761.0	74	23.3	90	calm			0		8		calm	0	0			cloudy.
S. S. Jerome, N. 32° 19′, W. 62° 09′ *	29.94?	760.5?	76	24.4	95	s.			5		5		s.	3 h'r	3 h'r	sli't	s.	showery.
S. S. Llandaff City, N. 51° 07′, W. 12° 00 †	29.72	754.9	64	17.8		w.			4		4		wnw.	shr's	shr's	mod.	w.	showery.
S. S. Bothnia, N. 40° 58′, W. 64° 52′	30.13	765.3	82	27.8	83	nne.			2		2		w.	0	0	sm'h	wsw.	clear.
S. S. Scythia, N. 45° 19′, W. 41° 52′	30.00	762.0	70	21.1	100	sw.			3		10			1 h'r	1 h'r			hazy.
S. S. Canada, N. 41° 18′, W 61° 56′	30.17	766.3	71.6	22		ne.			3	ck	0	ne.		0	0	sm'h	ne.	covered.
S. S. France, N. 49° 02′ W. 15° 08′†	29.83	757.7	53.6	12		wnw.			6		4		nw.	0	0	sm'h	nw.	
S S. Abyssinia, N. 51° 16′, W. 16° 40′	29.77	756.1	54	12.2	93	w.			4		10		w.	1 h'r	1 h'r	hv'y	w.	cloudy.
S. S. Bohemia, Hamburg, Germany						e.			2		7		e.	0	0			fair.
S S. Frisia, N. 40° 45′, W. 67° 18′	30.18	766.6				w.			1					0	0			fair.
S. S. Gellert, N. 42° 24′, W. 49° 45′	30.16	766.1	62	16.7	100	nne.			4		10		sw.	0	0	mod.	sw.	foggy.
S. S. Lessing, N. 48° 42′, W. 19° 46′	29.89	759.2	62	16.7		wnw.			6		3		wnw.	1 h'r	1 h'r	r'gh	w.	fair.
S. S. Rugia, New York, N. Y	30.04	763.0																
S. S. Silesia, Hamburg, Germany	30.01	762.2	73.5	23.1		ne.			2		5		ne.	0	0			fair.
S. S. City of Berlin, N. 49° 46′, W. 31° 04′	30.10	764.5	56	13.3	69	w.			1		10		wsw.	5 h'r	5 h'r	mod.	sw.	overcast
S. S. Mentmore, N. 48° 18′, W. 32° 17′*†	30.21	767.3				sse.			4		5		se.	0	0	mod.		hazy.
S. S. Bulgarian, N. 46° 24′, W. 42° 42′*	30.07	763.8				nw.			3		10		nw.	0	0	light	nw.	overcast.
S. S. Archimedes, N. 51° 56′, W. 7° 06′	29.71	754.6				ssw.			3		2		se.	1 h'r	1 h'r	sm'h		fine.
S. S. Sirius, N. 39° 10′, W. 9° 28′ *	30.09	764.3				calm			0		0			0	0	sli't	nw.	clear.
S. S. City of San Antonio, N. 32° 35′, W. 79° 39′*†	29.98	761.5	79	26.1		sw			2		0							hazy.
S. S. Colorado, N. 33° 47′ W. 75° 39′ †	29.99	761.7	75	23.9		se.			3		4		n.	0	0	small	ne.	fine.
S. S. Chalmette, Algiers, La †	30.08	764.0	76	24.4		wsw.			3		6		wsw.	2 h'r	2 h'r			fair.
S. S. New York, N. 24° 45′, W. 80° 50′*†	30.04	763.0	82	27.8		s.			3		3		calm			sm'h		clear.
S. S. Lone Star, N. 26° 06′, W. 85° 07′ †	30.03	762.7	82	27.8		ssw.			1		2			0	0	sm'h		clear.
S. S. Denmark, N. 40° 58′, W. 48° 20′ †	30.31	769.9	70	21.1		sw.			5		5		wsw.	0	0	sli't	wsw.	fair
S. S. England, N. 49° 12′, W. 24° 06′	30.10	764.5				w.			4		5		n.	0	0	mod.	n.	fair.
S. S. Erin, London, Eng	29.69	754.1	51	10.6		ssw.			4		3		s.	0	0			clear.
S. S. Helvetia, N. 40° 34′, W. 62° 08′	30.17	766.3	66	18.9	100	ne.			1		10		ne.	0	0	sli't	e.	overcast.
S. S. Holland, N. 40° 41′ W. 54° 21′	30.09	764.3	77	25.0		sw.			4		2		sw.	0	0	mod.	sw.	hazy.
S. S. The Queen, N. 46° 58′, W. 35° 03′	30.02	762.5	65	18.3	58	ssw.			5		10		sw.	0	0	mod.	ssw.	overcast.
S. S. Braunschweig, N. 39° 50′ W. 59° 05′	30.00	762.0	77.0	25.0	82	ssw.			5–6		6		ssw.	4 h'r	4 h'r	r'gh	ssw.	fair.
S. S. Elbe, Bremerhaven, Germany	29.91	759.7	66	18.9	84	se.			1–3		5		e.	0	0			fair.
S. S. Fulda, N. 46° 16′, W. 35° 08′	30.05	763.3	63	17.2	89	sse.			4		10		s.	6 h'r	6 h'r	mod.	sse.	cloudy.
S. S. Habsburg, N. 40° 08′, W 63° 56′	30.13	765.3				nne.			3		8		n.	0	0	sm'h	nne.	cloudy.
S. S. Neckar, N. 43° 12′ W. 43° 13′	30.18	766.6	75.5	24.2	81	wsw.			4		9		wsw.	0	0	mod.	wsw.	cloudy.
S. S. Oder, N. 48° 03′, W. 25° 53′	30.12	765.0	58	14.4		wnw.			3		10		wnw.	0	0	mod	wnw.	cloudy.
S. S. Ohio, N. 46° 47′, W. 23° 45′	30.16	766.1				nnw.			3		10		n.	0	0	light	n.	cloudy
S. S. Salier, N. 49° 45′, W. 14° 30′ *	29.78	756.4	64	17.8	53	nw.			5		5		nw.	1 h'r	1 h'r	r'gh	nw.	fair.
S. S. Weser, N. 48° 51′, W. 23° 00′	30.08	764.0	55	12.8		nw.			4–5		8		nw.	½ h'r	½ h'r	r'gh	nw.	cloudy.
S. S. City of Augusta, N. 30° 04′, W. 78° 39′†	30.06	763.5				e.			2		4		e.	0	0	sm'h		fair.
S. S. Colon, N. 10° 28′, W. 78° 21′ †	29.92	760.0	81	27.2	96	ne.			5		10			0	0	mod.	ne.	overcast.
S. S. Muriel, N. 30° 10′, W. 68° 15′	30.10	764.5	80	26.7		sw.			4		2		ssw.	0	0			clear.
S. S. Rhynland, N. 41° 32′, W. 54° 30′	30.25	768.3	65	18.3	78	var.			3		8		sw.	8 h'r	8 h'r	mod.	var.	drizzling.
S. S. Pennland, N. 49° 49′ W. 7° 45′	29.88	758.9	55	12.8	93	w.			6		9		w.	3 h'r	3 h'r	mod.	w.	squally.
S. S. Switzerland, N. 48° 45′, W. 23° 37′†	30.14	765.5				nnw.			2		8		nnw.	0	0	mod.	wnw.	cloudy.
S. S. Waesland, N. 40° 52′, W. 62° 21′	30.19	766.8	70	21.1		nne.			3		7		e.	0	0	light	nne.	fair
S. S. P. Caland, N. 49° 27′, W. 14° 00′	29.84	757.9	56.8	13.8	84	wnw.			4		6		nw.			3	wnw.	squally.
S. S. Leerdam, N. 49° 55′, W. 5° 36′	29.84	757.9	62.8	17.1	77	wsw.			3		8		wsw.	0	0	sm'h		cloudy.
S. S. W. A. Scholten, N. 44° 36′ W. 49° 00′	30.18	766.6	54.1	12.3	87	wnw.			1		10		w.	4 h'r	4 h'r	1	w.	foggy.
S. S. Belize, Savanilla, U.S.C*	29.83	757.7	84	28.9		ne.			3		0			0	0	sm'h		hazy.
S. S. Valencia, La Guayra, Venezuela †	30.12	765.0	81	27.2	78	ene.			3		2		ene.	0	0	mod.	ne	clear.
S. S State of Georgia, N. 54° 39′, W. 17° 09′ †	29.80	756.9	55	12.8		nw.			4		6		nw.	0	0	mod.	w.	fair.
S. S. State of Indiana, N. 44° 50′, W. 51° 00′*†	30.15	765.8	53	11.7		n.			2		8		n.	0	0	sm'h		hazy.
S. S. State of Nevada, N. 54° 52′, W 12° 58′			57	13.9		se.			3		2			18 h'r	18 h'r	light	w.	clear.
S. S. Thingvalla, N. 40° 51′, W. 65° 57′†	30.10	764.5	63.5	17.5		e.			2		10			0	0	long	e.	overcast.
S. S. Romano, New York, N. Y †	30.11	764.8	72	22.2					3					0	0			gloomy.
S. S. Oregon, Quebec, Canada	29.95	760.7	64	17.8		e.			4		3		e.			mod.	se.	clear.
S. S. Daniel Steinmann, Montreal, Canada †	29.94	760.5	76	24.4		sse.			2		9		se.	0	0			cloudy.
S. S. Norman, N. 42° 23′, W. 71° 04′	29.94	760.5				sw.			1		0			0	0			clear.
S. S. Saxon, N. 29° 00′, W. 75° 08′ †	30.03	762.7				se.			4		5							fair.
S. S. Adriatic, N. 43° 18′ W. 46° 11′ *†	30.27	768.8	65	18.3		s.			4		10		sw.	1 h'r	1 h'r	sli't	sw.	rain & fog.
S. S Celtic, N. 42° 11′, W. 48° 44′ †	30.10	764.5	60	15.6		sw.			4		10			0	0	mod.	sw.	dense fog.
S. S. Iowa, Liverpool Bar, Eng	29.80	756.9	63	17.2		nne.			3		6		nne.	2 h'r	2 h'r	sm'h		fair.
S. S. Antonio Lopez, Cadiz, Spain	30.11	764.8	74	23.3	76	w.			2		5			0	0			fair.
Schr. Abbie H. Gheen, Jersey City, N. J†	30.16	766.1	72	22.2		calm			0									foggy.
Bg. Abbie Clifford, N. 39° 42′, W. 68° 49′†	30.03	762.7	70	21.1		e.			2		2			0	0	sm'h	se.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Aquidneck, N. 6° 54′, W. 29° 19′ *†	30.00	762.0				se.			1		8		s.	light	light	light	se.	cloudy.
Schr. Anna A. Holton, N. 25° 37′, W. 77° 38′*†	30.06	763.5	86	30.0		wnw.			4		2		w.	½h'r	½h'r	mod.	n.	clear.
Schr. Authur Burton, Richmond, Me†	30.05	763.3				calm			0		0			0	0			fine.
Bk. Aureola, N. 50° 39′, W. 13° 59†	29.80	756.9	61	16.1		nnw.			4		3		nw.	2 h'r	2 h'r	mod.	nw.	clear.
Bk. Arda, Sackville, N. B.						ne.			4		2		ene.	2 h'r	2 h'r			clear.
S. S. Burswell, N. 42° 45′, W. 9° 37′*†	30.07	763.8	68	20.0		w.			2		2		calm	1 h'r	1 h'r	str'g	nw.	clear.
Bg. Belle of the Bay, Apalachicola, Fla†	29.96	761.0				w.			4		9		wsw.	sq'lls	sq'lls			raining.
Bk. Bayonnaise, N. 23° 29′, W. 30° 25′			74.3	23.5		ne.			4		5		ne.			sm'h	ne.	fair.
Schr. C. R. Flint, N. 26° 02′, W. 94° 40′ †	29.99	761.7	83	28.3		ese.			2		5		se.	0	0	short	se.	fair.
Bk. Cato, N. 71° 10′, E. 31° 10′*†	30.15	765.8				wnw.			4		4		wnw.			mod.	w.	fair.
Schr. Clotilde, Tuspan Bar, Mexico*†	29.89	759.2	81	27.2		se.			2		5		se.	0	0	sm'h	ese.	squally.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I*†	30.10	764.5	79	26.1	82	e.			2		3		e.	0	0			clear.
Bkt. David A. Preston, Port Royal, S. C						nw.			2		0			0	0			
S. E. J. Spicer, N. 40° 09′, W. 70° 50′	30.09	764.3	70	21.1	100	se.			2		0			0	0	sm'h		clear.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′			61	16.1		wsw.			1					3 h'r	3 h'r			gloomy.
U. S. Fish Com. S. S. Fish Hawk, Hampton Roads Va†	30.02	762.5	72	22.2	95	se.			2		8		s.	0	0			cloudy.
S. Festina Lente, St. Paul Id., Gulf of St. Law rence	30.06	763.5	53	11.7		se.			1		2		nnw.	4 h'r	4 h'r	long	se.	clear.
Schr. F. E. Waters, N. 26° 46′, W. 77° 04′*†	30.10	764.5				wnw.			2				w.	2 h'r	2 h'r			cloudy.
Bg. George Davis, N. 54° 55′, W. 11° 23′						ssw.			2				wsw.	0	0		wsw.	
Bgt. George Ponce, Porto Rico, W. I*†	30.03	762.7	80	26.7		ne.			1		2			0	0	mod.	se.	fair.
Bk. Galeon, N. 37° 50′, W. 70° 22′†	30.05	763.3	75	23.9		e.			2		0			0	0	sm'h	e.	blue sky.
Bk. Heinrich & Tonio, N. 40° 50′. W. 63° 05′†	30.05	763.3	63	17.2		ne.			2		10			0	0	sm'h		hazy.
S. Hedwig, N. 43° 02′, E. 15° 34′	30.04	763.0	74.5	23.6	79	calm			0		1		n.	0	0			fine.
Bk. Hattie G. McFarland, New York, N. Y†	30.01	762.2	73	22.8		se.			5		4		s.	0	0			stormy.
Bk. Harriet S. Jackson, N. 34° 24′, W. 72° 50′						sse.			4		1		ese.	1 h'r	1 h'r	small	s se.	fine.
Bk. Horace Scudder N. 12° 54′, W. 66° 00′ *†	30.10	764.5	82	27.8		e.			3		5		e.	light	light	light	e.	fine.
Schr. Isabel Alberto, St. Augustine, Fla†	29.94	760.5				wsw.			1		2		w.	sh'rs	shr's			fair.
Bk. Johanne, N. 49° 00′, W. 62° 46′*†	30.02	762.5	54	12.2		baff			1		10		var.	2 h'r	2 h'r	sm'h		foggy.
Schr. John L. Thomas, Old Providence Island, C. A. *†	30.04	763.0	88	31.1		ene.			4		4		ene.	½h'r	½h'r			squally.
Bg. John Wesley, N. 7° 22′, W. 25° 00′*†	29.86	758.4	82	27.8		wsw.			2		8		sw.	3 h'r	3 h'r	mod.	sse.	squally.
Schr. Jennie N. Huddell, N. 35° 05′, W. 75° 15′ †	29.99	761.7	79	26.1		n.			2		5		se.	0	0	sm'h		fair.
S. J. W. Gildemeister, N. 11° 59′, W. 26° 06′	30.06	763.5	80.6	27	80	var.			3		2 k		ene.	0	0	2	ene.	misty.
Bg. L. & W. Armstrong, St. Pierre, Martinque, W. I*†	30.10	764.5				calm			0		2		ne.	½ h'r	½ h'r			light rain.
Light House Tender Laurel, Key West, Fla†	30.02	762.5	85	29.4		ese.			0–1		2		sse.	0	0			clear.
Bg. Lilian, N. 39° 52′, W. 73° 40′ †	30.09	764.3	72	22.2		se.			1		4			0	0	sm'h	s.	hazy.
Bk. Louise Adelaide, N. 38° 40′, W. 75° 00′†	30.06	763.5	72	22.2		ese.			1		3		s.	0	0	sm'h	se.	light fog.
Bk. Milo, N. 45° 00′, W. 60° 00′ †	30.15	765.8				calm			0		fg.						var.	dense fog.
S. S. Madrid, N. 36° 55′, W. 72° 16′†	30.11	764.8	77	25.0	81	var.			2		3		var.	0	0	sm'h	var.	fair.
Schr. Minnie A. Bonsall, Rondout, N. Y.†	30.04	763.0	68	20.0		sw.							s.	0	0			clear.
Bgt. Myrtle, Mayagues, Porto Rico, W. I*†	30.12	765.0				e.			1				e.	0	0			fair.
Schr. Maggie Abbott, N. 38° —′, W. 75° 00′†	29.96	761.0				e.			4		4		se.	0	0			clear.
S. S. Mendoza, N. 35° 23′, W. 59° 03′†	30.30	769.6				s.			4		4		s.	0	0	sm'h	sw.	clear.
Bk. National Eagle, N. 38° 17′, W. 19° 34′						wsw.			2		5		w.	0	0	sm'h		fair.
Bg. O. C. Clary, Guadeloupe, W. I*†	30.10	764.5				ese.			2		0							clear.
Bk. Orpheus, N. 39° 36′, W. 71° 15′	30.04	763.0	74	23.3		e.			2		2		calm	0	0	sm'h		fair.
Bk. Ottawa, N. 56° 36′, E. 18° 08′	29.87	758.7	52	11.1		ne.			5		10		ene.	12 h'r	12h'r	small	ene.	foggy.
S. Paramita, N. 35° 52′, W. 37° 56′ †	30.31	769.9	78	25.6		nnw.			4		2		nw.	0	0	long	nw.	clear.
S. S. Raleigh, off Crooked Island, W. I†	30.06	763.5	90	32.2		calm			0		0			0	0	sm'h		clear.
S. Rudolph, N. 45° 02′, W. 33° 06′			63.5	17.5		ssw.			5		10		sw.	0	0	long	var.	foggy.
Bg. Rising Sun, N. 21° 51′. W. 65° 37′†	30.10	764.5	86	30.0		se.			4		1		se.	0	0	mod.	se.	
Bk. Rosino, N. 36° 07′, W. 4° 58′			72	22.2		w.			5		0			0	0	sm'h		clear.
Bk. Saga, N. 40° 25′, W. 70° 17′*†	30.08	764.1	67	19.4					1		0			0	0	sm'h	ese	foggy.
Bk. Sunbeam, N. 40° 50′, W. 21° 16′†.	30.25	768.3	65	18.3	84	wnw.			3		5		w.	0	0	cross	nw.	fair.
Bk. Southern Belle, N. 25° 10′, W. 61° 25′†	30.17	766.3	78	25.6		se.			4		2		se.	sh'rs	sh'rs	long	se.	clear.
S. Sovereign of the Seas, N. 10° 16′, W. 29° 36′ *†	30.16	766.1	83	28.3	79	ne.			3		2			0	0	long	ne.	hazy.
Bg. Teneriffe, N. 42° 00′, W. 47° 40′*	30.09	764.3				wsw.			0		5		wsw.	0	0	mod.		
Bk. Tuck Sing, N. 28° 08′, W. 79° 37′*†	29.98	761.5				wnw.			3		0			1 h'r	1 h'r	light	n.	hazy.
Schr. Viola Reppard, Bath, Me.†	30.00	762.0	70	21.1		s.			2		3		calm	0	0			clear.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†	30.02	762.5	82	27.8		calm			0		4		calm	0	0			fair.
Bgt. Sunlight, N. 14° 55′, W. 56° 00′						ese.			5		5		e.	½h'r	½h'r	mod.	e.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay†	29.99	761.7	51	10.6	100	ne.			4		8					1	ne.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony, Africa.	29.99	761.7	69	20.6		ene.			1		0							blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	29.96	761.0	49.7	9.8	95	nne.			2		10							overcast.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.95	760.7	51	10.6	93	nne.	11	4.9			10		nne.	0	0	sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	29.94	760.5	52	11.1	86	ne			4		10		nne.			mod.	ene.	overcast.
U. S. S. Quinnebaug, S. 3° 15′, E. 8° 25′	30.08	764.0	76	24.4	86	se.			3		8		se.			sm'h	se.	fair.
S. Annie M. Law, S. 3° 14′, E. 12° 25′ *†	29.85	758.2	64	17.8		nnw.			3		4		nnw.	0	0	short		
S. David Stewart, Pernambuco, Brazil†	29.91	759.7				se.			3		3		se.	2 h'r	2 h'r			
S. Wm. McGilvery, S. 52° 12′, W. 64° 50′ *†	29.60	751.8	45	7.2	92	nnw.			3		0			0	0	sm'h		misty.
S. S. Olbers. S. 21° 07′, W. 39° 26′†	30.27	768.8	78	25.6	73	ne.			4		4		ne.	0	0	sli't	se.	fair.
Bk. Achille F, S. 35° 45′, W. 52° 30′†	30.13	765.3	69	20.6	85	n.			4		10		nne.	0	0	long	s.	cloudy.
Bk. Alpheus Marshall, S. 4° 50′, W. 31° 00′ *†	29.88	758.9				ese.			3		7		ese.	0	0			threatening.
Bk. Ceylon, S. 7° 05′, W. 19° 45′ *†	30.18	766.6	88	31.1	84	ese.			4		2		se.	0	0	sm'h		clear.
Bk. Gray Eagle, S. 15° 13′, W. 33° 08′ *†	30.05	763.3				ese.			5		1		ese.	0	0	sm'h	sse.	clear.
H. P. M. S. Duro, S. 3° 19′, E. 10° 42′	30.10	764.4	77.0	25.0	72	s.			4		8		s.	0	0	3	s.	
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.52	749.8	72	22.2	85	calm			0		1	se.						blue sky.
H. M. S. Champion, Sulu Island, Oceania	29.85	758.2	80	26.7	87	ssw			2		10							misty.
H. M. S. Espiegle, N. 5° 29′, E. 166° 10′	29.80	758.4	83	28.3	75	ene.			3		5					2	ene.	d. clouds.
H. M. S. Flying Fish, N. 37° 34′, E. 121° 26′	29.51	749.5	71	21.7	92	calm			0		3							d. clouds.
H. M. S. Magpie, N. 6° 08′, E. 118° 01′	29.88	758.9	82.5	28.1	79	nne.			1		9							misty.
H. M. S. Zephyr, N. 35° 27′, E. 139° 39′	29.80	756.9	68	20.0	?	calm			0		10	n.						raining.
H.P. M. S. Tamega, Macao, China	29.82	757.3	86.0	30.0	78	sw.			3		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.90	759.4	68.5	20.3	95	calm			0		10		sw.	light	light			sprinkling.
U. S. S. Adams, Juman, Alaska†	29.71	754.6	48	8.9	92	ene.			1		10					sm'h		cloudy.
U. S. S. Essex, Honolulu, Sandwich Ids	30.10	764.5	75	23.9	95	ne.			2		5		ne.			sm'h		fair.
U. S. S. Hartford, N. 9° 30′, W. 157° 30′*	29.81	757.2	82	27.8	83	ene.			4		5		ene.	0	0	mod.	var.	fair.
U. S. S. Monocacy, Salee river, Corea	29.50	749.3	69	20.6	80	se.			2		10		calm					rainy.
U. S. S. Palos, Hong Kong, China	29.68	753.9	86	30.0	76	sw.			2		2		calm					clear.
U. S. S. Richmond, Shanghai, China*	29.50	749.3	77	25.0	100	e.			1		10		e.	0.5	13.			raining.
S. S. Coptic, N. 40° 40′, E. 150° 54′	29.73	755.1	54.5	12.4	71	nnw.			5		10		nw.	2 h'r	2 h'r	mod.	nw.	raining.
S. S. Oceanic, N. 40° 23′, W. 131° 40′	30.07	763.8	59	15.0	88	s.			2		9		sw.			sm'h	w.	cloudy.
S. S. Oregon, San Frnnciscco, Cal†	30.00	762.0	53	11.7	93	nw.			1		2		nw.					clear.
S. S. Willametta, N. 41° 22′, W. 124° 38′†	30.13	765.3	52	11.1	93	calm			0		fg.			0	0	long	wnw.	dense fog.
S. S. Ancon, San Francisco, Cal†	30.00	762.0	52	11.1	86	sw.			2		10							overcast.
S. S. City of Chester, Near Point Reyes, Cal†	29.97	761.2	51	10.6	100	nw.			4		hz							
S. S. Dakota, N. 40° 56′, W. 124° 44′†	30.07	763.8	56	13.3	81	s.			4		10		sw.			light	s.	cloudy.
S. S. Queen of the Pacific, N. 46° 00′, W. 124° 08′†	30.01	762.2	58	14.4		sse.			4		5			0	0	long	w.	fair.
S. S. City of Pekin, N. 46° 38′, W. 171° 29′†	30.44	773.2	46	7.8	84	nw.			3		10		wnw.	0	0	light	nw.	overcast.
S. S. City of Rio de Janeiro, Hong Kong, China †	29.79	756.7	85	29.4	79	sw.			3		0			0	0	sm'h		clear.
S. S. Colima, Panama, Panama †	29.87	758.7	78	25.6	91	nw.			2		4		nw.	0	0			fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. San Blas, San Blas, Mexico	.....	.....	83	28.3	.....	sw.	.....	.....	1	.....	1	.....	sw.	0	0	small	ssw.	clear.
S. S. San José, N. 17° 10′, W. 101° 02′ †	29.86	758.4	84	28.9	.....	ese.	.....	.....	6	.....	5 k	.....	ese.	1 h'r	1 h'r	hv'y	ese.	fair.
S. S. Benledi, Shanghai, China*	29.67	753.6	78	25.6	91	var.	.....	.....	1–2	.....	6	.....	sw.	0	0	sm'h	.....	fair.
S. S. Radnorshire, Shanghai, China *†	29.60	751.8	.....	.....	.....	sw.	.....	.....	3	.....	10	.....	sw.	3 h'r	3 h'r	.....	.....	threatening.
S. Sacramento, Zebu, Philippine Ids*†	29.94	760.5	82	27.8	79	sw.	.....	.....	3	.....	9	.....	sw.	6 h'r	6 h'r	sm'h	.....	cloudy.
S. St. David, N. 27° 31′ E. 132° 44′*†	29.80	756.9	84	28.9	91	sw.	.....	.....	5	.....	6	.....	var.	0	0	con.	var.	hazy.
Bk. Xenia, N. 28° 38′, E. 122° 04′	.....	.....	80	26.7	.....	sw.	.....	.....	5	.....	2	.....	calm	0	0	chop	ssw.	misty.
H. M. S. Sappho, San Diego, Cal	29.85	758.2	67	19.4	95	ene.	.....	.....	1	.....	2	nw.	.....	.....	.....	.....	.....	d clouds.
U. S. S. Ranger, La Union, San Salvador	29.93	760.2	81	27.2	87	se.	.....	.....	3	.....	10	.....	calm	0	0	sm'h	.....	overcast.
S. Henry Failing, Wilmington, Cal †	29.75	755.6	67	19.4	.....	e.	.....	.....	3	.....	fg.	.....	.....	0	0	sm'h	se.	
S. Grecian, Yokohama, Japan †	29.80	756.9	74	23.3	76	se.	.....	.....	1	.....	10	.....	se.	0	0	.....	.....	overcast.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W	.....	.....	53	11.7	93	calm	.....	.....	0	.....	3	w.	.....	.....	.....	.....	.....	d. clouds
H. M. S. Kingfisher, S. 37° 16′, W. 86° 42′	29.79	756.7	51	10.6	.....	se.	.....	.....	6	.....	7	.....	.....	.....	.....	8	ssw.	showery.
H. M. S. Nelson, Souva, Feejee Ids, Oceania	29.69	754.1	73	22.8	95	wnw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky
U. S. S. Iroquois, Valparaiso, Chili	29.98	761.5	53	11.7	86	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	mod.	.....	rainy.
U. S. S. Lackawanna, Callao, Peru*	29.97	761.2	62	16.7	83	se.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Onward. Callao Peru†	30.12	765.0	61	16.1	82	se.	.....	.....	2	.....	10	.....	se.	.....	.....	.....	.....	misty.
U. S. S. Pensacola, Callao, Peru*	29.95	760.7	61	16.1	94	se.	4	1.8	.....	.....	10	.....	se.	0	0	.....	.....	cloudy.
U. S. S. Wachusetts, Noukahiva, Marquesas Ids	30.00	762.0	72	22.2	100	calm	.....	.....	0	.....	2	.....	e.	.....	.....	sm'h	.....	clear.
S. S. Australia, Sydney, N. S. W	30.27	768.8	54	12.2	87	w	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, S. 11° 57′, W. 168° 58′ †	29.93	760.2	80	26.7	82	se.	.....	.....	4	.....	5	.....	se.	1 h'r	1 h'r	h'vy	se.	fair.
S. S. City of Sydney, S. 11° 16′, W. 169° 35′ *†	29.85	758.2	84	28.9	75	ene.	.....	.....	4	.....	4 k	.....	ene.	.....	.....	mod.	se.	fair.
H. M. S. Lark, S. 7° 09′, E. 155° 47′	29.96	761.0	77.3	25.2	93	se.	.....	.....	2	.....	10	.....	.....	.....	.....	1	se.	raining.
Bk. Edmund Phinney, S. 22° —′, W. 75° 40′*†	30.05	763.3	62	16.7	.....	n.	.....	.....	2	.....	8	.....	.....	0	0	mod.	sw.	cloudy.
S. Parker M. Whitmore, S. 17° 40′, W. 108° 30′ *†	30.15	765.8	72	22.2	.....	ese.	.....	.....	6	.....	7	.....	ese.	light	light	cross	var.	fair.
S. Storm King, S. 6° 49′, W. 107° 22′ *†	29.96	761.0	.....	.....	.....	ese.	.....	.....	5	.....	1	.....	se.	0	0	sm'h	ese.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.13	765.3	81	27.2	87	se.	.....	.....	4	.....	3	sse.	.....	.....	.....	3	sse.	d. clouds.
H. M. S. Sheldrake, S. 2° 25′, E. 105° 43	.....	.....	81	27.2	.....	ese.	.....	.....	2	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tourmaline, Trincomalee, Ceylon, India	29.80	756.9	86	30.0	72	sw.	.....	.....	3	.....	2	w.	.....	.....	.....	1	sw.	d. clouds.
U. S. S. Enterprise, S. 15° 53′, E. 45° 31′ *†	30.25	768.3	80	26.7	62	ese.	.....	.....	4	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Juniata, Trincomalee, Ceylon, India	29.85	758.2	84	28.9	83	sw.	.....	.....	4	.....	8	.....	w.	0	0	sm'h	.....	cloudy.
S. S. Toledo, N. 26° 25′, E. 35° 04′ *†	30.00	762.0	81	27.2	.....	nnw.	.....	.....	6	.....	0	.....	.....	.....	.....	light	nw.	clear.
S. S. Malabar, N. 7° 25′ E. 73° 36′ *†	29.85	758.2	.....	.....	.....	sw.	.....	.....	6	.....	2	.....	sw.	0	0	h'vy	sw.	clear.

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



UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 26, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.6	74.8	23.8	83	n.			1		0			0	0	clear	Malaterre.
Algiers			30.00	762.1	72.3	22.4	72	nne.			3		0			0	0	clear	Thève.
La Calle			29.95	760.8															Fonfrède.
Tunis			30.00	761.9															Jacques.
Saida			30.02	762.4															Pérès.
Tebessa			30.00	761.9	92.1	33.4	28	n.			3		4			inap.	inap.	cloudy	St. Martin.
Geriville					92.3	33.5	4	nw.			5		4			0	0	cloudy	Forfert.
Laghouat			29.96	761.0	102.2	39.0	16	s.			3		1			0	0	very fair	Abraham.
Biskra			29.98	761.5	109.0	42.8	13	se.			1		2			0	0	fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.34	770.6	51.0	10.6	86	nne.	8	3.6			8			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.12	765.0	30.21	767.3	55.4	13.0	68	n.	14	6.3			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.43	747.5	29.96	760.9	75.2	24.0	54	w.			3		7			0.055	1.4	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.21	741.8	29.99	761.7	67.3	19.6	70		3.1	1.4			10			0	0		Dr. Wierzbiski
Eperies	29.07	738.3	29.91	759.7	74.1	23.4	56	calm			0		7 ks			0	0		Julius Mikolik.
Gratz	28.74	730.0	29.95	760.7	69.8	21.0	83	s.			1		7			0	0	lightning	Andreas Rospini.
Hermannstadt	28.53	724.6	29.90	759.4	74.1	23.4	43	n.			2		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.71	729.2	30.02	762.4	65.7	18.7	69	w.			2		10			0.094	2.4	covered	The Staff.
Lemberg	29.01	736.8	29.97	761.3	63.5	17.5	85	ne.			2		10			0.031	0.8		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.91	759.6	30.02	762.6	78.4	25.8	84	sw.			2		4			0	0		I. R. Hydrographic Office.
Szathmar	29.47	748.5	29.92	759.9	74.7	23.7	56	w.			3		7			0	0		Joseph Midlinszky, S. J.
Szegedin	29.68	753.9	29.95	760.8	68.4	20.2	83	w.			2		7			0.205	5.2		Karl Stancel.
Trieste	29.91	759.7	30.01	762.2	75.9	24.4	69	se.			1		7			0.063	1.6		Royal Academy.
Vienna	29.32	744.7	30.02	762.4	69.1	20.6	65	w.			3		7			0.075	1.9		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.52	749.8	29.62	752.3	51.5	10.8	98	ese.	21	9.4			10			0.060	1.5	raining	W. Boswell.
Armagh, Observatory	29.39	746.5	29.61	752.1	56.0	13.3	81	w.	8	3.6			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.64	752.8	57.3	14.1	84	wsw.	18	8.0			10					overcast	John Hartnup.
Bolton, Sharples	29.12	739.6	29.64	752.8	52.2	11.2	94	ssw.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.25	742.9	29.64	752.8	53.9	12.2	86	sw.			2		10			0.12	3.0	raining	McLandsborough & Preston.
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	86.0	30.0	68	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	29.65	753.1	29.76	755.9	60.6	15.9	74	sw.			0.6		7					raining	John McLaren.
Chatham, School M. E.	29.67	753.6	29.80	756.9	61.0	16.1	73	sw.			3		7			blank	blank	d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.62	752.3	29.85	758.2	60.1	15.6	67	ssw.			3		5					d. clouds	The Staff.
Fort Napier, Natal	27.84	707.1	30.06	763.5	76.5	24.7	38	n.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	82.0	27.8	87	n.			1		5					raining	J. W. Smith.
Galway, Queen's College	29.65	753.1	29.68	753.9	58	14.4	76	w.			2		6			0.04	1.0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.96	761.0	30.02	762.5	73.2	22.9	81	sw.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.25	742.9	29.46	748.3	55.3	12.9	92	ne.			2		10					raining	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.60	751.8	29.77	756.1	64.4	18.8	66	sw.			3		10					showery	The Staff.
Guernsey	29.63	752.6	29.93	760.2	60.0	15.6	88	wsw.			5		4			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.75	755.6	29.79	756.7	54.5	12.5	83	w.	4	1.8			10					showery	The Staff.
Leicester, Museum	29.44	747.8	29.69	754.1	60.3	15.7	71	w.			1		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.01	762.2	76.2	24.6	94	e					4					d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.04	763.0	30.08	764.0	87.5	30.8	56	sw.			3		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.18	741.2	29.69	754.1	62.8	17.1	61	sw.			4		7					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.53	750.0	29.76	755.9	55.0	12.8	87	sw.			3		6					threatening	The Staff.
Plymouth	29.74	755.4	29.81	757.2	59.8	15.4	78	wsw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.68	752.6	29.73	755.1	55.5	13.1	85						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.91	759.7	76.2	24.6	66	ssw.			1		7					d. clouds	W. H. Lyne.
Sheffield	29.40	746.7	29.68	753.9	59.1	15.1	94	w.			1		10			0.19	4.8	showery	W. F. Cooper.
Silloth Rectory	29.48	748.8	29.51	749.5	53.2	11.8	98	sw.			3		10			0.545	13.8	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	29.81	757.2	29.90	759.4	65	18.3	63	sw.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.77	756.1	29.80	756.9	56.4	13.6	72	w.	20	8.9			6					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.64	752.8	30.03	762.7	77.7	25.4	71	e.	6.2	2.8						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B					53.0	11.7		e.	8	3.6			10 ks			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.18	766.6	30.22	767.6	64	17.8	88	sw.	4	1.8			10 s		w.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.22	767.6	30.28	769.1	54	12.2	93	e.	5	2.2			10 s		e.	0.03	0.8	cloudy	G. A. Blair.
Cornwall, Ontario	29.70	754.4	29.88	758.9	66.2	19.0	89	se.			1		10 s			0.260	6.6	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.23	767.8	30.28	769.1	51.5	10.8		e.			4		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.11	764.8	30.13	765.3	51	10.6	93	ne.	35	15.6		2 cs	5 ks	ne.	ne.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.18	741.2	29.99	761.6	57	13.9	83	s.	12	5.4		5 ck	2 ks	s.	s.	0	0	fair	James Stewart.
Fredericton, N. B	30.18	766.6	30.24	768.1	59.0	15.0	88	ne.	4	1.8			10 s			0	0	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.65	727.7	29.70	754.4	64.0	17.8	100	s.	5	2.2			10 n			0.38	9.7	threatening	Jas. Grant.
Halifax, N. S*	30.14	765.5	30.27	768.8	55	12.8	93	se.	1	0.4			fg			inap.	inap.	foggy	A. Allison.
Hamilton, Ontario	29.33	745.0	29.71	754.6	62.7	17.1	89	sw.			1	10 cs	0			0.45	11.4	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.53	750.0	29.85	758.2	66	18.9	81	s.	6	2.7			10 ks		sw.	0.07	1.8	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.21	767.3	30.25	768.3	73.0	22.8	65	sw.			2	4 c	0	sw.		0	0	fair	C. H. Rigby.
London, Ontario	28.85	732.8	29.70	754.4	63.7	17.6	56	se.				4 cs	6 ks			0.98	24.9	overcast	E. B. Reed.
Montreal, Quebec*	29.76	755.9	29.96	761.0	69	20.6	63	se.	9	4.0			10 s			inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.66	753.4	29.89	759.2	62.9	17.2		e.			3		10 s			0.25	6.3	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.06	738.1	29.73	755.1	65	18.3	100	se.	4	1.8			10 n		se.	0.82	20.8	light rain	Rev. R. Mosley.
Peterboro, Ontario	29.08	738.6	29.79	756.7	67	19.4	87	s.			1		10 ks			0.600	15.2	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.07	738.4	29.73	755.1	64	17.8	100	se.	3	1.3			10 n.			1.78	45.2	threatening	H Morgan.
Port Stanley, Ontario	29.10	739.1	29.72	754.9	63	17.2	93	sw.	14	6.3			fg			0.15	3.8	foggy	M. Payne.
Quebec, Quebec*	29.72	754.9	30.08	764.0	57	13.9	96	ne.	24	10.7			10 ks			0.01	0.3	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.37	746.0	29.81	757.2	63	17.2	93	e.	6	2.7			10 s		se.	1.87	47.5	heavy rain	W. H. McIntyre.
St. Andrews, N. B	30.13	769.9	30.18	766.6	55	12.8	93	e.	3	1.3			fg.			0	0	foggy	
St. John, N. B	30.04	763.0	30.20	767.1	63.0	17.2	83	sw.	1	0.4		0	0			0	0	blue sky	G. Murdock, C. E.
Saint John's, N. F	30.24	768.1	30.49	774.4	51	10.6	86	ne.			2		10 ns			0	0	d. clouds	J. Higgins.
St. Pierre, N. F			30.24	768.1	57.2	14.0		se.			2					0	0		The Commandant.
Saugeen, Ontario*	29.00	736.6	29.69	754.1	57	13.9	93	ne.	12	5.4			10 s			0.73	18.5	cloudy	
Stratford, Ontario	28.46	722.9	29.70	754.4	64.9	18.3	93	s.	9	4.0			10 s			0.127	3.2	d. clouds	C. J. Macgregor, M. A.
Sydney, C. B*	30.20	767.1	30.26	768.6	60	15.6	90	sw.	9	4.0		2 c	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.41	747.0	29.78	756.4	63	17.2	93	e.	8	3.6			10 ks		w.	0.57	14.5	cloudy	Magnetic Observatory.
Windsor, N. S	30.12	765.0	30.21	767.3	58.0	14.4	91	se.	4	1.8			10 ks			0	0	overcast	Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.70	729.0	29.72	754.9	65.5	18.6	92	se.	14	6.3			10 s			0.50	12.7	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.10	764.5	30.16	766.1	57	13.9	96	e.	7	3.1		0	8 k		e.	0	0	fair	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	30.01	762.2	30.04	763.0	68.0	20.0	78	w.	7.3	3.3		0	1 k			0	0	smoky	John Duthie
Springbok Fontein	28.08	713.2			59	15.0	54	n.											J. T. Eustace.
Chinese (*Sub-series*).																			
Sung-shu-chwang																			A. Guelny.
Tchang-kia-tchouang	29.27	743.4	29.38	746.2	88.0	31.1	33	e.			1		6			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.65	753.0	29.67	753.6	70.3	21.3	96	s.	1.6	0.7			10 n			0.449	11.4	raining	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.93	760.2	29.98	761.4	65.7	18.7	70	ese.	22	10			1						Oversergent Fischer.
Fanoe	29.82	757.5	29.84	758.0	60.3	15.7	98	sse.			6		10					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.76	755.8	29.80	756.9	34.7	1.5	94	s.			4		10					raining	S. Kleinschmidt.
Jacobshavn, Greenland	29.68	753.9	29.73	755.1	37.8	3.2		calm			0		7						
Stykkisholm, Iceland	29.80	756.8	29.84	757.9	53.6	12.0	80	e.			2		8						A. O. Thorlacius.
Thorshavn	29.92	760.0	29.95	760.6	54.0	12.2	89	e.	9	4			8						Overloerer Bergh.
Vestervig	29.78	756.4	29.87	758.7	62.6	17.0	75	e.			6		9						Loerer Oesterbol.
Egyptian.																			
Cairo	29.79	756.6			87.3	30.7		n.	5.4	2.4		0	0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.53	750.0	30.17	766.2	70.9	21.6	86	s.			1		kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.42	747.3	29.97	761.3	63.7	17.6	84	s.			4		k		n.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.95	760.8	30.03	762.8	83.5	28.6	59	ssw.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.48	748.7	30.02	762.6	66.7	19.3	50	w.			2	0	5 kn		w.	0.067	1.7	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.69	754.1	29.95	760.6	66.9	19.4	45	wsw.			3		8		wsw.	0.177	4.5	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.16	740.6	30.03	762.8	66.2	19	63	sw.			2	0	5 cn		se.	0.055	1.4	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.84	758.0	30.10	764.6	69.3	20.7	53	sw.			1		8		w.	0.008	0.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.50	749.3	30.04	763.0	62.6	17	73	sw.			1		n		sw.	0.189	4.8		M. Malet, Director.
Brest, Naval Observatory	29.75	755.6	29.99	761.8	64.4	18.0	76	wsw.			2		8		wsw.	0.315	8.0	raining	M. de Kermarée, Dir.
Caen, Normal School	29.82	757.5	29.89	759.3	65.1	18.4	56	w.			1		5		w.	0.35	9.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.65	753.1	29.96	761.0	65.3	18.5	68	sw.			4		5	ssw.	sw.	0.287	7.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.45	747.9	29.94	760.5	66.0	18.9	59	sw.			3		8			0.335	8.5	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.73	729.7	30.04	762.9	71.6	22.0	40	w.			1		5		sw.	0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.23	742.5	30.05	763.2	71.6	22	58	nw.			1		5			0.51	13.		M. de Villemontée, Dir.
Commercy, Normal School	29.17	741.0	30.03	762.7	57.6	14.2	81	w.			1		n	w.	w.	0.087	2.2		Dr. Coulet, Director.
Gap, Normal School	27.58	700.4	30.01	762.3	75.6	24.2	38	s.			1	0	3 k			0	0		M. Jeangirard, Director.
Grésasque, du Rhone	28.93	734.8	30.00	762.0	81.3	27.4	44	nw.			2		2		w.	0	0		M. Kina, Director.
Grenoble, Normal School	29.32	744.6	30.07	763.7	72.0	22.2	67	ene.			1		cs		wsw.	0.969	24.6		M. Ablard, Director.
Guéret, Normal School	28.52	724.5	30.08	764.1	59.5	15.3	85	sw.			1		1		s.	0.287	7.3	clear	M. Delorme, Dir.
Lamballe, Normal School	29.85	758.2	30.12	765.0	60.8	16	73	sw.					k		sw.	0.12	3.		M. Olliitrault, Director.
Lescar, Normal School	29.55	750.5	30.10	764.4	71.6	22.0	48	wnw.			1		8 kn			0.008	0.2	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.90	759.4	30.00	762.0	62.6	17.0	67	w.			3		5	w.	wsw.	0.039	1.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.04	737.5	30.07	763.7	69.1	20.6	53	e.			1		10 cn			0.504	12.8	covered	M. André, Director.
Mans, Normal School	29.70	754.3	30.00	762.0	63.1	17.3	67	sw.			3		8		wsw.	0.224	5.7	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.77	756.1	30.03	762.8	72.9	22.7	72	w.			0.1		2		w.	0	0		M. Stephan, Director.
Montlouis	24.87	631.7	29.71	754.7	62.6	17.0	4	sw.	9.4	4.2			6	w.		0.339	8.6		M. Cave for Dr. Fines.
Montpellier, Normal School	29.87	758.7	29.99	761.8	80.2	26.8	73	s.			2		5		w.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.24	742.7	30.00	762.1	67.3	19.6	58	ssw.			2		kn		w.	0.165	4.2		M. Haese, Director.
Nantes, Observatory	29.89	759.2	30.05	763.3	66.0	18.9	55	wsw.			1–2	c	7 kn; n		wsw.	0.323	8.2		M. Larocque, Director.
Perpignan, Observatory	29.95	760.7	30.06	763.4	74.1	23.4	64	e.	5.6	2.5			10		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.34	542.0			40.6	4.8		sw.			3–4		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.99	736.4	30.02	762.6	73.8	23.2	68	s.			1	0	2 s	w.	s.	0.134	3.4	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.23	640.8			46.4	8.0	83	wsw.			4		5		wsw.	0.228	5.8	½ covered	M. Alluard.
Rochefort, Naval Obs'y	30.03	762.7	30.06	763.5	65.5	18.6	69	wsw.			1		5		w.	0.16	4.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.81	757.2	30.02	762.5	66.9	19.4	57	wsw.			4		5		sw.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.00	711.2	30.11	764.7	64.6	18.1		calm			0		10		ne.	0.008	0.2	covered	M. Seger, Director.
Rouen, Normal School	29.89	759.1	29.93	760.3	63.7	17.6	61	ssw.			3		5	wsw.		0.780	19.8	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.83	757.6	29.99	761.7	67.6	19.8	48	wsw.			3		2	wsw.	sw.	0.051	1.3		M. Renou, Director.
Toulouse, Observatory	29.45	747.9	30.17	766.3	69.8	21.0	61	n.			1		5	w.		0	0	cloudy	M. Bailland, Director.
Tours	29.84	758.0	30.02	762.5	63.7	17.6	70	wnw.			3		5	sw.	sw.	0.130	3.3	cloudy	M. de Tastes.
Versailles, Observatory	29.49	749.1	29.98	761.6	64.8	18.2	50	w.			3					0.031	0.8		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.00	762.0	30.15	765.8	68.4	20.2	57	w.	13.9	6.2		0	4 k		s.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.60	726.3	30.00	762.0	68.4	20.2	54	w.			2		8	w.		0.205	5.2		Prof. Jnedt.
Bamberg	29.13	740.0	29.98	761.4	72.0	22.2	56	sw.			2	0	5 k		sw.	0.118	3.0		Prof. Dr. Hoh.
Berlin	29.80	756.8	29.93	760.3	71.4	21.9	60	calm			0		10			0	0		Dr. Sensch.
Breslau	29.50	749.3	30.03	762.8	68.7	20.4	60	ese.			2		2	e.		0	0		Royal University Obs'y.
Carlsruhe	29.58	751.4	30.03	762.7	70.2	21.2	54	sw.			2		9	sw.		0	0		Albert Senz.
Cassel	29.24	742.7	29.95	760.8	74.5	23.6	36	sw.			5		7	sw.		0.193	4.9		Dr. H. Möhl.
Frankfort-on-the-Main			29.95	760.7	72.5	22.5	48	ssw.			2		6			0.189	4.8		Physical Society.
Friedrichshafen	28.63	727.3	30.00	761.9	72.5	22.5	64	w.			2		8	w.		0.134	3.4		Wilhelm, Chief Tel.
Hamburg	29.82	757.5	29.91	759.8	61.9	16.6	91	calm			0		10			0.173	4.4	raining	E. Preller.
Kiel	29.89	759.2	29.91	759.6	61.9	16.6	85	s.			1		10			0.043	1.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.56	750.7	29.98	761.4	65.8	18.8	82	sw.			1		8	ssw.		0	0		H. Leppig, Asst.
Magdeburg	29.76	755.8	29.95	760.6	62.6	17.0	92	sw.			1		10	wsw.		0.051	1.3	raining	Weather Observatory
Memel	30.10	764.5	30.15	765.7	71.4	21.9	47	sse.			3		4 ck	0					Issermann.
Munich	28.24	717.2	30.10	764.6	71.8	22.1	47	n.			1		6	w.		0.039	1.0		Central Station.
Neufahrwasser	30.04	763.1	30.06	763.5	66.9	19.4	77	e.			2		7			0	0		A. Lothes.
Neustadt, Palatinate	29.51	749.5	30.03	762.8	69.4	20.8	51	w.			2		8	w.		0	0		Dicknether.
Stuttgart	29.07	738.4	29.95	760.6	64.4	18.0	88	w.			1		10			0.244	6.2	raining	Prof. Dr. Schoder.
Wustrow	29.93	760.3	29.96	761.0	73.4	23.0	56	se.			4	0	8 k		s.	0.047	1.2		Profs. Brandes & Reimer.
Greek.																			
Athens	29.60	751.9	29.97	761.3	79.3	26.3		s.			1.0		6 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.41	747.1	29.46	748.4	92.8	33.8	66	wsw.	28.0	12.5			3			0	0	d. clouds	
Deesa	29.01	736.7	29.46	748.2	97.8	36.6	37	sse.	10.0	4.5			4	sse.	sse.	0	0	d. clouds	
Bombay	29.63	752.5	29.66	753.4	80.6	27.0	93	ssw.	30.0	13.4			10		sw.	2.24	56.9	overcast	
Poona, Yarrowda	27.85	707.3	29.70	754.4	75.9	24.4	74	wsw.	25.0	11.2			10			0	0	overcast	
Trichinopoly	29.53	750.1	29.81	757.1	90.0	32.2	46	wnw.	2.0	0.9			10	ne.	ne.	0	0	overcast	
Belgaum	27.22	691.4	29.76	756.0	73.4	23.0	79	w.	13.0	5.8			9	w.	s.	0.12	3.0	d. clouds	
Lahore	28.56	725.5	29.25	742.9	113.3	45.2	19	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.48	723.4	29.34	745.2	94.4	34.7	57	calm	2.0	0.9			2		e.	0	0		
Agra	28.80	731.6	29.34	745.2	100.2	37.9	47	ne.	6.0	2.7			9		e.	0	0	d. clouds	
Nagpur	28.49	723.7	29.52	749.9	82.1	27.8	81	nw.	2.0	0.9			10		w.	0.29	7.4	drizzling	
Jubbulpore	28.19	715.9	29.52	749.8	82.6	28.1	73	nw.	6.0	2.7			10		nw.	1.60	40.6	raining	
Lucknow	29.07	738.4	29.44	747.8	82.2	27.9	81	e.	4.0	1.8			0			1.28	32.5	blue sky	
Allahabad	29.15	740.5	29.46	748.4	79.9	26.6	93	se.	4.0	1.8			10		e.	1.27	32.3	overcast	
Patna	29.37	746.0	29.56	750.7	76.5	24.7	93	wnw.	5.8	2.6			10	wnw.	wnw.	0.65	16.5	drizzling	
Hazaribagh	27.56	700.0	29.56	750.9	74.4	23.6	92	w.	5.8	2.6			10		sw.	0.19	4.8	thund'r st'm	
Cuttack	29.44	747.8	29.52	749.9	82.0	27.8	85	calm	0	0			8			1.01	25.6	d. clouds	
Calcutta, Alipore	29.48	748.7	29.50	749.2	85.0	29.4	78	ssw.	8.0	3.6			4		se.	0.36	9.1	d. clouds	
Dhubri	29.53	750.0	29.64	753.0	79.4	26.3	93	nne.	2.2	1.0			10			1.06	26.9	overcast	
Chittagong	29.49	749.1	29.58	751.3	83.8	28.8	83	s.	2.4	1.1			10			0	0	overcast	
Sibsagar	29.28	743.8	29.62	752.2	81.9	27.7	85	ne.	2.0	0.9			10	sw.	sw.	0.08	2.0	d. clouds	
Jeypore	28.00	711.3	29.37	746.1	100.7	38.2	34	nw.	12.0	5.4			4		nw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.10	764.7	30.13	765.2	81.1	27.3	61	s.	13.3	5.9			6	s.	se.	0	0	d. clouds	
Bellary	28.24	717.3			87.0	30.6	45	w.	16	7.2		4 ck	4			0	0	gloomy	
ITALIAN.																			
Udine	29.60	751.8	30.00	761.9	77.9	25.5	55	e.	1.8	0.8			9			0	0		Prof. Giovanni Clodig.
Milan	29.50	749.3	30.00	762.0	77.0	25.0	54	sw.	6.9	3.1			6	nw.		0.059	1.5		Prof. G.V.Schiapparelli.
Padua	29.86	758.5	29.97	761.2	78.6	25.9	53	nw.	0.7	0.3			7	sw.		0.012	0.3		Prof. Dott. Lorenzoni.
Moncalieri	29.10	739.2	29.98	761.5	73.4	23.0	61	nw.	1.8	0.8			7	n.		0	0		Prof. F. F. Denza.
Genoa	29.87	758.6	30.05	763.3	71.1	21.7	75	se.	9.4	4.2			4	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.12	714.3	29.98	761.4	72.0	22.2	59	ese.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.96	761.0	30.01	762.2	73.8	23.2	55	se.	11.2	5.0			5			0	0		Prof. Luigi Guidi.
Florence	29.78	756.4	30.03	762.8	77.9	25.5	49	sw.			2		3			0	0		Prof. Costantino Pittei.
Leghorn	29.93	760.1	30.01	762.2	74.1	23.4	67	s.	3.8	1.7			2			0	0		Prof. P. Monte.
Rome	29.89	759.3	30.06	763.6	79.5	26.4	34	w.	6.3	2.8			0			0	0		Prof. P. Tacchini.
Lecce	29.78	756.5	30.03	762.7	81.7	27.6	25	ene.	9.4	4.2			1	ne.		0	0		Prof. C. de Giorgi.
Cosenza	29.14	740.1	29.99	761.7	85.3	29.6	67	ssw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	29.82	757.3	30.00	762.1	73.4	23.0	51	s.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.81	757.2	30.06	763.4	74.8	23.8	54	e.	7.4	3.4			2			0	0		Prof. G. Cacciatore.
Syracuse	29.95	760.7	29.59	761.8	81.5	27.5	56	e.	1.3	0.6			2			0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.55	750.5	30.05	763.3	79.2	26.2	46	sw.	0	0			0			0	0		Prof. F. Brioschi.
Stelvio	22.30	566.3			46.9	8.3	62	s.			2		3			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.31	566.7			45.9	7.7	63	n.			6		9			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.52	749.7	29.55	750.6	61.4	16.3	95	e.			2		10 n		s.	1.224	31.1	raining	H. Hattori.
Awomori	29.52	749.8	29.55	750.6	61.3	16.3	92	ne.	6.4	2.9			10 n			1.354	34.4	raining	K. Ogawa.
Hamamatsu	29.58	751.3	29.61	752.0	68.4	20.2	95	calm			0	0	6 s			0.114	2.9	fair	Y. Sekigawa.
Kanazawa	29.47	748.5	29.57	751.0	68.0	20.0	94	s.	8.5	3.8			10 n			0.063	1.6	raining	S. Endo.
Kagoshima	29.70	754.3	29.71	754.6	71.9	22.2	83	w.			2	0	5 s			0.024	0.6	fair	G. Miyanohara.
Kioto	29.47	748.0	29.65	753.0	67.0	19.4	94	n.	2.0	0.9		0	3 s		ne.	0.828	21.0	fair	M. Tojima.
Kochi	29.62	752.4	29.64	752.9	70.9	21.6	96	sse.	2.3	1.0		0	7 s		w.	1.21	30.7	cloudy	K. Kusunose.
Miasaki	29.66	753.3	29.69	754.0	72.2	22.3	92	nne.			1		10 s		w.	0.130	3.3	covered	K. Masusaki.
Miyako	29.56	750.9	29.67	753.7	60.2	15.7	97	sw.	0.3	0.1			10 n			0.207	0.8	raining	N. Honno.
Nagasaki, I. M. Obs'y	29.52	749.8	29.72	754.9	69.1	20.6	95	wsw.	0.6	0.3		0	6 s			0.030	0.8	cloudy	S. Takehayashi.
Niigata	29.54	750.3	29.58	751.3	66.0	18.9	94	se.	8.7	3.8			10 n		sw.	0.470	11.9	light rain	M. Morita.
Nobiru	29.59	751.7	29.61	752.1	63.6	17.6	98	sse.	18.6	8.3			10 n			1.450	30.8	stormy	H. Midzushima.
Numazu	29.56	750.8	29.60	751.8	67.8	19.9	95	calm			0		10 ks			0.075	1.9	cloudy	R. Kaneda.
Osaka	29.63	752.6	29.65	753.0	67.3	19.6	96	ne.	1.2	0.5		0	2 s		w.	0.780	19.1	clear	H. Omura.
Sakai	29.64	752.9	29.65	753.1	70.2	21.2	82	wsw.			4	0	1 ks		wsw.	0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	29.54	750.2	29.61	752.0	67.8	19.9	96	ese.	2.5	1.1			10 n			0.193	4.9	light rain	The Staff.
Wakayama	29.59	751.6	29.64	752.9	68.2	20.1	91	calm	0	0		0	8 ck		n.	0.751	19.8	cloudy	K. Sakai.
Shimonoseki	29.55	750.5	29.69	754.1	69.1	20.6	89	calm			0		10 s			0	0	cloudy	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	69.4	20.8	88	e.	22.0	9.8			7ks;ku		ese.	0.14	3.6	fair	The Staff.
MEXICAN.																			
Guanajuato	23.67	601.1	29.89	759.1	60.4	15.8	75	e.	2.2	1.0		4 ck	6 k	ne.	ne.	0	0	very cloudy	Prof. Vicente Fernandez
Leon	24.28	616.7	29.88	758.9	63.3	17.4	78	ssw.	0.9	0.4		7 c	3 k	se.		0	0	covered	Prof. M. Leal.
Mazatlan	29.64	752.9	29.90	759.4	80.0	26.7	82	e.	0.9	0.4			10 n		se.	inap.	inap.	covered	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					82	27.8	59	se.	18.0	8.0		3 ck	0	se.		0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.88	758.9	29.88	758.9	60.4	15.8		sw.			4					0.228	5.8		
Groningen	29.83	757.7	29.89	759.1	66.4	19.1		sw.			4					0.055	1.4		
Helder	29.83	757.7	29.83	757.7	60.1	15.6		sw.			4					0.008	0.2		
Hellevoetsluis	29.86	758.4	29.86	758.4	62.8	17.1	67	sw.			3					0.185	4.7		
Utrecht	29.85	758.2	29.90	759.4	62.4	16.9	71	ssw.			4		8			0.003	1.6	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.2			79.9	26.6	77	ne.	0	0			2			0	0		Lt.J. J. Roptman.
NORWEGIAN.																			
Bergen	29.86	758.5	29.93	760.1	63.0	17.2	52	e.	9	4			8			0	0		
Brono	30.07	763.7	30.11	764.7	65.8	18.8	62	n.			4		3			0	0		
Christiania	29.91	759.8	30.06	763.5	57.9	14.4	83	e.	13	6			10			0.063	1.6		
Gjæsvær	30.11	764.7	30.13	765.3	48.2	9.0		w.			4		10						
Lodingen	30.02	762.6	30.07	763.8	67.5	19.7	61	s.			2		0			0	0		
PORTUGUESE.																			
Angra, Azores	30.00	762.1	30.16	766.1	66.9	19.4	94	wsw.	8.1	3.6			8			0.177	4.5		Dr. J. A. Sampaio.
Oampo Major	29.09	738.9	30.06	763.4	77.0	25.0	42	nne.	3.1	1.4			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.16	766.1	30.25	768.3	68.9	20.5	65	sw.	3.8	1.7			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.82	757.5	30.15	765.9	66.9	19.4	46	nnw.	15.0	6.7			1			0	0		The Staff.
Ponta Delgada, Azores	30.15	765.8	30.22	767.6	73.8	23.2	68	calm	0	0			4			0	0		
Saint Paul de Loando	29.83	757.6	30.03	762.8	73.2	22.9	90	wnw.			1		2	se.		0	0		
San Salvador	28.20	716.3	30.02	762.6	82.4	28.0	45	s.			3		0			0	0		
Serra da Estrella	25.39	645.0	30.06	763.4	56.7	13.7	52	calm	6.3	2.8			1			0	0		
RUSSIAN.																			
Akmolinski	28.30	718.9	29.32	744.7	69.3	20.7	81	wnw.	4	2		7 ck	0			0.039	1.0		Major K. Lasarew.
Archangel	30.10	764.4	30.11	764.9	67.3	19.6	47	nw.	18	8		0	8 ks			0	0		Capt. Sseliwerstow
Ashurada	29.72	755.0	29.63	752.6	82.4	28.0	74	wsw.	22	10		0	1 k			0	0		
Astrakhan	29.86	758.5	29.78	756.4	61.0	16.1	76	nne.	18	8			10 n			0.047	1.2		Capt. Wisganow.
Baku	29.74	755.5	29.70	754.3	79.2	26.2	61	n.	31	14		0	0			0	0		
Barnaul	28.79	731.3	29.25	743.0	76.6	24.8	44	sw.	9	4			10			0.004	0.1		Meteorological Obs'y
Bieloserak	29.73	755.2	30.18	766.6	70.9	21.6	50	wnw.	11	5		3 ck	0			0	0		
Dorpat	30.04	762.9	30.27	768.9	70.2	21.2	43	ese.	11	5		0	0			0	0		Observatory.
Ekaterinburg	28.87	733.3	29.82	757.5	52.5	11.4	60	ene.	13	6			10			blank	blank		Meteorological Obs'y
Elissawetgrad	29.58	751.2	30.02	762.4	62.6	17.0	65	e.	9	4			10 kn			0.035	0.9		
Irkutsk	28.07	712.9	29.61	752.0	74.3	23.5	57	se.			1		0			0	0		
Kasalinsk																			
Kasan	29.54	750.3	29.80	757.0	57.6	14.2	43	nne.	10	7			10 n			0	0		Observatory.
Kem	30.09	764.2	30.14	765.5	68.0	20.0	55	sw.	13	6		0	5 ks			0	0		
Kertch	29.80	756.8	29.82	757.4	70.2	21.2	74	n.	4	2		0	6 k			0.937	23.8		Lagorio & Sastyrea.
Kieff	29.41	747.0	30.02	762.6	65.7	18.7	41	ene.	9	4		cs	2 k			0	0		Observatory.
Koslov	29.48	748.7	30.00	762.1	62.1	16.7	50	nne.	13	6		0	4 k			0	0	hazy	
Libau	30.11	764.8	30.13	765.4	71.1	21.7	46	ese.	11	5			1			blank	blank		E. Quass.
Lugan	29.69	754.0	29.87	758.6	67.6	19.8	36	n.	22	10			5			0	0		Meteorological Obs'y.
Moscow	29.65	753.2	30.11	764.9	66.0	18.9	35	nne.	13	6		0	1 k			0	0		Meteorological Obs'y
Nikolaiev	29.87	758.6	29.94	760.5	72.5	22.5	68	ne.	9	4		cs	6 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.60	751.7	29.68	753.9	51.3	10.7	68	calm	0	0			4			0	0		Iwanow.
Pekin, China	29.24	742.6	29.38	746.2	84.4	29.1	33	calm	0	0		0	4 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.27	743.5	29.59	751.6	102.2	39.0	18	calm	0	0			0			0	0		
Petrozavodsk	30.00	762.0	30.19	766.8	73.4	23.0	31	w.	11	5		3 cs	0			0	0		Dr. Bergmann.
Pinsk	29.60	751.7	30.08	764.0	66.9	19.4	61	e.	9	4		0	5 ks			0.039	1.0		
Poti	29.87	758.7	29.90	759.5	73.4	23.0	87	sw.	4	2		0	0			0.059	1.5		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
St. Petersburg	30.26	768.6	30.28	769.2	70.7	21.5	38	nnw.	4	2	.....	1 ck	0	.....	.....	0	0	light clouds	Central Physical Obs'y.
Samarkand	27.30	693.3	29.52	749.9	92.1	33.4	33	s.	7.8	3.5	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	28.75	730.3	29.34	745.3	91.2	32.9	25	wnw.	9	4	.....	.....	7	.....	.....	inap.	inap.	.....	Major Lasarew
Sevastopol	29.67	753.6	29.89	759.1	74.5	23.6	63	wnw.	20	9	.....	2 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	29.75	755.7	30.20	767.0	70.5	21.4	43	ne.	11	5	.....	10 ck	0	.....	.....	0	0	solar corona	
Tashkend	28.01	711.5	29.52	749.8	97.5	36.4	25	calm	0	0	.....	0	0	.....	.....	0	0	.....	Terch, A. bl.
Tiflis	28.42	721.9	29.77	756.2	75.9	24.4	41	wnw.	31	14	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.13	689.0	29.43	747.6	86.0	30.0	42	calm	0	0	.....	0	6 n	.....	.....	0	0	.....	
Viatka	29.30	744.1	29.91	759.6	66.2	19.0	35	nne.	4	2	.....	.....	1	.....	.....	0	0	.....	
Warsaw	29.62	752.3	30.07	763.8	64.9	18.3	79	ese.	9	4	.....	.....	10 kn	.....	.....	0	0	hvy. clouds	Astronomical Obs'y.
Yeniseisk	29.26	743.2	29.53	750.0	76.1	24.5	45	ese.	4	2	.....	.....	2	.....	.....	0.693	17.6	.....	M. O. Marks.
SCOTTISH.																			
Monach Lt	.....	.....	29.57	751.1	56	13.3	94	ne.	.....	.....	6	.....	10	.....	.....	0.2	5.	rainy	J. Youngclause
North Unst	.....	.....	29.87	758.7	.....	.....	.....	e.	.....	.....	3	0	2	.....	.....	.....	.....	.....	Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.03	762.7	30.13	765.4	73.4	23.0	70	e.	3.4	1.5	.....	0	2	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.08	764.1	30.14	765.6	75.2	24.0	50	nw.	1.6	0.7	.....	2	3	sw.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.16	689.8	30.05	763.2	68.4	20.2	46	sw.	4.9	2.2	.....	0	2	.....	.....	0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.86	707.6	29.99	761.7	79.3	26.3	32	w.	11.4	5.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	29.87	758.7	30.00	761.9	81.1	27.3	57	ne.	5.6	2.5	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Oviedo	29.35	745.4	30.11	764.7	62.6	17.0	55	e.	5.8	2.6	.....	4 k	4 k	e.	e.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.18	741.1	30.05	763.3	67.6	19.8	58	w.	1.8	0.8	.....	.....	10	.....	.....	0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.98	761.4	30.04	763.0	81.5	27.5	74	sse.	4.5	2.0	.....	3 c;cs	0	ne.	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.5	29.84	758.0	78.8	26.0	90	ene.	3.3	1.5	.....	0	8 kn	.....	.....	0.031	0.8	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.7	30.09	764.2	74.7	23.7	60	wnw.	9.4	4.2	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.98	761.4	30.07	763.7	81.0	27.2	85	calm	0	0	.....	2 s	1 k	se.	se.	0.039	1.0	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Hapsranda	30.15	765.8	30.19	766.8	64.4	18.0	53	sw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Umea	30.18	766.6	30.23	767.9	69.1	20.6	36	sw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Hernosand	30.18	766.5	30.23	767.8	64.0	17.8	46	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Stockholm	29.98	761.5	30.16	766.0	64.4	18.0	65	ese.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	30.02	762.5	30.08	764.0	66.2	19.0	68	se.	.....	.....	2	.....	7	.....	.....	0.028	0.7	.....	
Sub-series.																			
Upsala	30.06	763.6	30.15	765.8	63.1	17.3	71	se.	9.8	4.4	.....	.....	10	.....	sse.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.64	727.5	30.02	762.6	70.5	21.4	49	ssw.	.....	.....	3	.....	8	.....	.....	0.370	9.4	covered	The Observatory.
TURKISH.																			
Constantinople	.....	.....	29.97	761.2	73.8	23.2	67	se.	9	4.0	.....	.....	8	.....	ne.	0.063	1.6	.....	The Observatory.
Valona	.....	.....	30.15	765.9	79.0	26.1	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.86	758.5	83.8	28.8	50	sw.	.....	.....	2	.....	4 k	.....	sw.	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.82	681.2	.....	.....	70	21.1	76	.....	.....	.....	.....	.....	.....	.....	.....	0	0	clear.	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.95	760.7	30.03	762.7	72	22.2	62	se.	8	3.6	.....	0	9 k;ks	.....	w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.14	740.1	29.79	756.7	59	15.0	87	n.	10	4.5	.....	.....	10 n	.....	.....	0.21	5.3	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	636.0	29.79	756.7	59	15.0	54	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	29.93	760.2	62	16.7	48	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.72	729.5	29.87	758.7	70.0	21.1	94	calm	0	0	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	73	22.8	90	e.	10	4.5	.....	5 c	0	.....	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.71	754.6	29.90	759.4	71.0	21.7	92	n.	4	1.8	.....	.....	10 s	.....	n.	0.70	17.8	cloudy	John Healy.
Baltimore, Maryland	29.85	758.2	29.90	759.4	75	23.9	85	s.	6	2.7	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	29.96	761.0	29.98	761.5	69.3	20.7	95	s.	14	6.3	.....	.....	fg.	.....	.....	0	0	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.44	747.8	29.46	748.3	41.0	5.0	92	s.	20	8.9	.....	.....	10 n	.....	s.	0.16	4.1	light rain	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.45	722.6	29.99	761.7	67.0	19.4	84	se.	9	4.0	.....	2 k	2 k	se.	se.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.11	688.6	29.88	758.9	63	17.2	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Billings, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. Gibson.
Bismarck, Dakota	28.21	716.5	29.97	761.2	68	20.0	84	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.05	763.3	30.08	764.0	64	17.8	97	e.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.17	690.1	29.95	760.7	64	17.8	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Kenealy.
Boston, Massachusetts	29.95	760.7	30.10	764.5	60.0	15.6	100	e.	5	2.2	.....	.....	10 n	.....	.....	inap.	inap.	light rain	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	76.0	24.4	90	s.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	E. C. Imlay.
Buffalo, New York	29.04	737.6	29.78	756.4	69.8	21.0	76	se.	5	2.2	.....	3 ck	7 s	sw.	se.	0.02	0.5	cloudy	W. Finn.
Buford, Fort, Dakota	27.96	710.2	29.92	760.0	69	20.6	81	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Burlington, Vermont	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. N. Farnell.
Cairo, Illinois	29.58	751.3	29.97	761.2	66.6	19.2	75	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Cape Henry, Virginia	29.92	760.0	29.94	760.5	76.0	24.4	90	se.	6	2.7	.....	3 k	0	s.	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.91	759.7	29.94	760.5	71.0	21.7	90	se.	15	6.7	.....	3 cs	0	.....	.....	0	0	clear	W. E. Smith.
Cape Mendocino, California	29.29	744.0	29.97	761.2	53	11.7	93	n.	.....	.....	2	.....	fg.	.....	n.	0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.89	759.2	29.91	759.7	73.4	22.0	98	sw.	16	7.2	.....	.....	10 n	.....	sw.	2.14	54.4	heavy rain	G. W. Davis.
Charleston, S. Carolina	29.77	756.1	29.82	757.4	78.5	25.8	90	s.	9	4.0	.....	.....	10 s	.....	s.	0.03	0.8	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.03	737.3	29.86	758.4	68.0	20.0	93	s.	1	0.4	.....	.....	10 s	.....	s.	1.20	30.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.08	738.6	29.89	759.2	69.0	20.6	84	nw.	2	0.9	.....	1 k	0	.....	.....	0.17	4.3	clear	B. L. Goulding.
Cheyenne, Wyoming	24.15	613.4	29.89	759.2	53.7	12.1	67	w.	8	3.6	.....	0	0	.....	.....	0.20	5.1	clear	E. McGovern.
Chicago, Illinois	29.19	741.4	29.88	758.9	54.9	12.7	89	n.	15	6.7	.....	.....	10 s	.....	.....	0.63	16.0	cloudy	John Laurens.
Chincoteague, Virginia	29.92	760.0	29.94	760.5	76	24.4	90	se.	4	1.8	.....	3 c	0	.....	.....	0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.22	742.2	29.87	758.7	59.0	15.0	75	w.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	L. Dunne.
Cleveland, Ohio	29.04	737.6	29.77	756.1	62.8	17.1	88	s.	9	4.0	.....	3 k	5 k	sw.	sw.	0.46	11.7	cloudy	J. B. Newlin.
Coleman City, Texas	28.22	716.8	29.97	761.2	72	22.2	84	s.	1	0.4	.....	0	9 ks	.....	.....	0.48	12.2	cloudy	T. J. Kenan.
Columbus, Ohio	28.98	736.1	29.82	757.4	59	15.0	87	sw.	7	3.1	.....	.....	10 s	.....	w.	0.08	2.0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.11	714.0	29.98	761.5	74.2	23.4	76	s.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Davenport, Iowa	29.30	744.2	29.94	760.5	56	13.3	80	nw.	8	3.6	.....	0	5 ks	.....	nw.	0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	29.86	758.4	72	22.2	50	sw.	3	1.3	.....	4 cs	0	sw.	.....	0	0	fair	J. Williams.
Dayton, Washington T'y	28.22	716.8	29.96	761.0	55	12.8	69	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. Moore.
Deadwood, Dakota	25.42	645.7	29.86	758.4	64	17.8	60	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del.	29.94	760.5	29.96	761.0	69	20.6	100	se.	16	7.2	.....	4 k	fg	se.	.....	0	0	fair	T. S. Townsend.
Denver, Colorado	24.81	630.2	29.85	758.2	67.0	19.4	45	s.	11	4.9	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.05	763.3	55	12.8	80	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.03	737.3	29.72	754.9	63.0	17.2	93	w.	2	0.9	.....	.....	10 n	.....	.....	0.56	14.2	light rain	E. R. Brace.
Dodge City, Kansas	27.49	698.2	30.00	762.0	66	18.9	100	se.	2	0.9	.....	.....	10 n	.....	.....	0.01	0.3	light rain	D. J. Carr.
Dubuque, Iowa	29.28	743.7	29.98	761.5	56.2	13.4	74	nw.	6	2.7	.....	4 c	3 s;fg	nw.	n.	inap.	inap.	fair	J. Harvey Smith.
Duluth, Minnesota	29.37	746.0	30.10	764.5	61	16.1	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. Belford.
Eagle Rock, Idaho	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. R. Boynton.
Eastport, Maine	30.13	765.3	30.20	767.1	58.0	14.4	74	n.	3	1.3	.....	3 c	hz.	.....	.....	0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.27	692.6	29.94	760.5	70	21.1	62	s.	4	1.8	.....	9 k	0	s	.....	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.28	667.5	29.87	758.7	80.0	26.7	38	s.	4	1.8	.....	0	6 s	.....	se.	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.05	737.9	29.77	756.1	70	21.1	79	s.	6	2.7	.....	.....	10 s	.....	s.	0.12	3.0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.29	744.0	29.94	760.5	57.0	13.9	80	n.	18	8.0	.....	2 ck	0	sw.	.....	0	0	clear	George Heathcote.
Galveston, Texas	29.90	759.4	29.94	760.5	81	27.2	82	w.	6	2.7	.....	4 ck	4 ks	ne.	.....	0	0	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.16	740.7	29.81	757.2	53.0	11.7	93	w.	6	2.7	.....	.....	10 s	.....	n.	1.25	31.7	cloudy	J. E. Mueller.
Grant, Fort, Arizona	.....	.....	.....	.....	77.2	25.1	21	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.90	759.4	29.92	760.0	78	25.6	76	se.	8	3.6	.....	0	4 s	.....	e.	0	0	fair	R. M. Crawford.
Helena, Montana	25.75	654.0	29.87	758.7	60	15.6	46	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. W. Dodge.

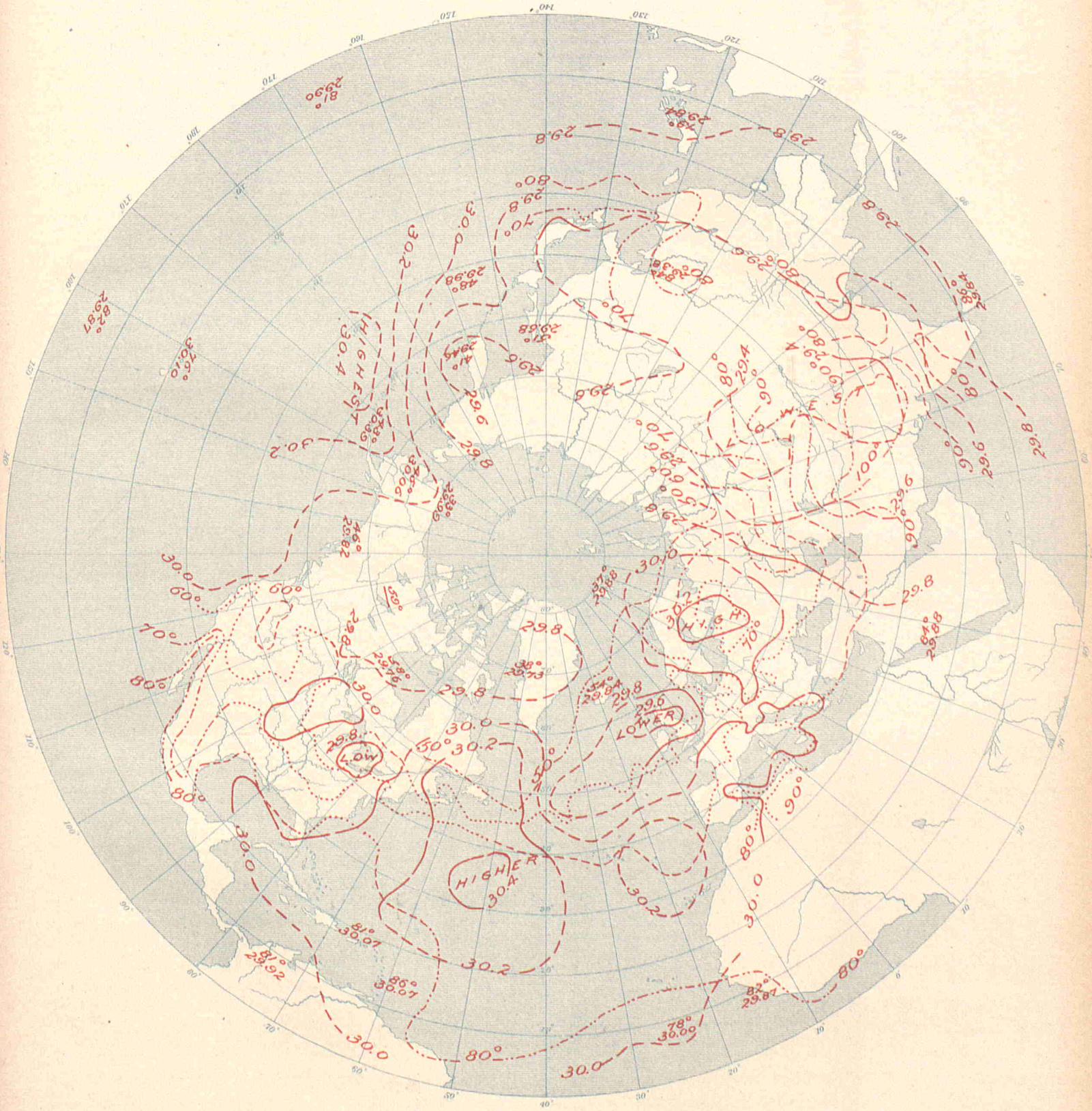
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.70	729.0	30.04	763.0	59.9	15.5	81	se.	8	3.6		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.08	738.6	29.86	758.4	56.6	13.5	80	w.	8	3.6			10 s		nw.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.91	759.7	29.94	760.5	79.3	26.3	85	s.	3	1.3		0	3 k		sw.	0	0	clear	I. A. Reed.
Jacksonville Florida	29.82	757.4	29.86	758.4	77.5	25.3	86	sw.	8	3.6			10 n			1.17	29.7	light rain	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.34	745.2	29.98	761.5	61.0	16.1	72	n.	3	1.3		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762.0	84.5	29.2	74	sw.	5	2.2		2 c	1 k	nw.	sw.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.94	760.5	29.96	761.0	77	25.0	82	se.	8	3.6		4 k	0	se.		0	0	fair	H. Mc P. Baldwin
Knoxville, Tennessee	28.88	733.5	29.89	759.2	65.4	18.6	93	n.	3	1.3		4 k	4 s	sw.	n.	0.51	13.0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.25	742.9	30.01	762.2	54	12.2	74	n.	12	5.4			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.18	741.2	30.05	763.3	63	17.2	78	n.	4	1.8		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.11	739.4	29.93	760.2	60.0	15.6	65	calm	0	0		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.66	753.4	29.97	761.2	71	21.7	76	n.	2	0.9		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.44	747.8	29.83	757.7	61	16.1	78	w.	1	0.4		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.32	744.7	29.87	758.7	61	16.1	81	n.	5	2.2		0	8 s		w.	inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.21	741.9	29.88	758.9	71	21.7	84	s.	2	0.9			10 n		s.	0.96	24.4	light rain	Louis Duane.
Mackinaw City, Michigan	29.21	741.9	29.85	758.2	59.5	15.3	81	n.	8	3.6			10 s		n.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.90	759.4	29.91	759.7	79.0	26.1	77	se.	8	3.6		0	4 k		se.	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.64	651.2	29.96	761.0	70	21.1	27	s.	16	7.2		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.30	744.2	30.02	762.5	55	12.8	69	nw.	14	6.3		0	0			0.03	0.8	clear	J. Gilligan.
Memphis, Tennessee	29.61	752.1	29.94	760.5	69	20.6	84	nw.	6	2.7		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.16	740.7	29.90	759.4	57	13.9	86	n.	13	5.8			10 s		n.	0.06	1.5	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.87	758.7	29.91	759.7	73.7	23.2	89	n.	1	0.4		7 cs	0	sw.		0.85	21.6	fair	C. A. Read.
Montgomery, Alabama	29.61	752.1	29.84	757.9	73.2	22.9	85	w.	4	1.8		0	4 k		nw.	0.01	0.3	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.08	738.6	30.05	763.3	56	13.3	69	s.	6	2.7		0	0			0	0	clear	H. White.
Mt. Washington, N. H.	24.00	609.6	30.12	765.0	46.3	7.9	91	s.	24	10.7		6 c	0			0	0	fair	S. W. Beall.
Nashville, Tennessee	29.32	744.7	29.88	758.9	68.0	20.0	78	w.	7	3.1		0	4 k		w.	inap.	inap.	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.92	760.0	30.03	762.7	65.5	18.6	95	e.	12	5.4			10s;fg		e.	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.10	764.5	65	18.3	93	ne.	6	2.7			10 s			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.88	758.9	29.93	760.2	76.5	24.7	85	nw.	4	1.8		7 cs	2 ks	w.	nw.	0.85	21.6	cloudy	M. Herman.
New York, New York	29.85	758.2	30.02	762.5	68	20.0	100	e.	10	4.5			10n;fg			inap.	inap.	light rain	G. E. Franklin.
Norfolk, Virginia	29.89	759.2	29.92	760.0	80.2	26.8	74	se.	8	3.6		2 c	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.14	689.3	29.94	760.5	64.6	18.1	76	e.	10	4.5			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.93	760.2	29.97	761.2	50.0	10.0	77	n.	1	0.4			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.95	735.3	30.09	764.3	61.0	16.1	84	n.	1	0.4		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.97	761.2	29.99	761.7	32.8	0.4	97	ene.	19	8.5			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.54	750.3	29.86	758.4	67.0	19.4	84	se.	10	4.5			10 n		sw.	0.03	0.8	light rain	J. G. Linsley.
Palestine, Texas	29.44	747.8	29.98	761.5	75.0	23.9	76	calm	0	0		0	0			0	0	clear	J. W. Byram.
Pensacola, Florida	29.88	758.9	29.91	759.7	75.1	23.9	97	w.	3	1.3		5 c	1 k	w.	w.	0.49	12.4	fair	M. McGauran.
Philadelphia, Pa	29.86	758.4	29.96	761.0	74	23.3	98	se.	10	4.5			10 s		se.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.15	461.0	29.97	761.2	37	2.8	72	sw.	16	7.2		0	hz.			0.09	2.3	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.00	736.6	29.79	756.7	68.5	20.3	87	s.	8	3.6			10 s		w.	0.65	16.5	cloudy	W. A. Reid.
Poplar River, Montana	27.80	706.1	29.90	759.4				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.00	736.6	29.67	753.6	57.0	13.9	96	sw.	4	1.8			10 n			0.42	10.7	light rain	M. H. Perry
Portland, Maine	30.09	764.3	30.14	765.5	63.5	17.5	84	se.	3	1.3			10s;fg			0	0	cloudy	W. W. Eichelberger
Portland, Oregon	29.88	758.9	29.95	760.7	54.0	12.2	86	s.	3	1.3			10 ks		s.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					79	26.1	77	s.	8	3.6		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	29.80	756.9	58.0	14.4	39	sw.	3	1.3		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.07	763.8	30.10	764.5	63.5	17.5	93	e.	7	3.1			fg.			0	0	dense fog	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.55	750.6	29.90	759.4	67	19.4	51	e.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.44	747.8	29.99	761.7	52	11.1	81	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.81	757.2	29.88	758.9	59.5	15.3	73	se.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.39	746.5	29.98	761.5	61.0	16.1	81	nw.	10	4.5		1 k	1 s	nw.		0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.03	762.7	30.06	763.5	45	7.2	93	sw.	6	2.7			10 s			0	0	threatening	A. P. Leavitt.
St. Paul, Minnesota	29.23	742.4	30.07	763.8	56.0	13.3	80	e.	1	0.4		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.17	740.9	30.02	762.5	55	12.8	86	s.	4	1.8		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.63	651.0	29.85	758.2	67	19.4	34	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.71	754.6	29.78	756.4	61.2	16.2	89	nw.	2	0.9		0	0			0	0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	29.97	761.2	30.00	762.0	68.0	20.0	93	se.	19	8.5			10 s		se.	0	0	cloudy	B. A. Blundon.
Sanford, Florida	29.84	757.9			76.9	24.9	82	sw	7	3.1			10 ks		sw.	0.21	5.3	cloudy	J. B. Marbury.
San Francisco, California	29.88	758.9	29.95	760.7	53.5	11.9	90	sw.	8	3.6		0	fg.		w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.76	755.9	29.85	758.2	78	25.6	79	n.	6	2.7			10 ks		w.	0.02	0.5	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.36	669.5	29.93	760.2	50	10.0	66	w.	4	1.8		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.70	754.4	29.93	760.2	74.5	23.6	86	e.	3	1.3		4 c	3 s	nw.	se.	0	0	fair	L. A. Welsh.
Sill, Fort, Indian Territory	28.80	731.5	30.00	762.0	68	20.0	78	n.	4	1.8			10 s			0.13	3.3	cloudy	W. M. Mattingly.
Sitka, Alaska	29.76	755.9	29.82	757.4	45.5	7.5	76	e.	4	1.8		0	5 k		e.	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.54	750.3	30.00	762.0	65.3	18.5	90	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.84	757.9	29.88	758.9	80.0	26.7	69	s.	14	6.3		5 ck	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.99	710.9	30.03	762.7	58	14.4	64	sw.	4	1.8		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.28	743.7	29.94	760.5	60	15.6	81	nw.	8	3.6		0	5 s		n.	0	0	fair	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	27.00	685.8	29.92	760.0	72	22.2	84	calm	0	0		2 ck	0	se.		0	0	clear	A. J. Warren.
Thomas, Camp, Arizona					70	21.1	59	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.06	738.1	29.74	755.4	59	15.0	87	sw.	10	4.5			10 s		sw.	0.60	15.2	cloudy	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	30.37	771.4	30.39	771.9	43	6.1	74	nw.	4	1.8		5 ck	5 k			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					66	18.9	36	nw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.70	754.4	29.95	760.7	73.0	22.8	84	n.	4	1.8		0	0			0.56	14.2	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.80	756.9	29.91	759.7	73.3	22.9	85	sw.	5	2.2			10 s		sw.	0.50	12.7	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.08	662.4	29.85	758.2	59.9	15.5	86	w.	5	2.2		0	0			inap	inap.	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.82	757.4	29.87	758.7	79.0	26.1	69	se.	4	1.8			10 s		s.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.63	732.3	30.11	764.8	64	17.8	73	se.	5	2.2		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.50	749.3	29.64	752.8	83.1	28.4	57	n.	1	0.4		1 c	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.06	763.5	80	26.7	67	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.07	763.8	79	26.1	87	se.			2	5 k	4 s	e.		0.600	15.2	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.36	745.7	29.92	760.0	81	27.2	85	calm			0	5 c	2 k	s.	s.	0	0	fair	Francisco J. Olmeros.
Rivas, Nicaragua, C. A.																			Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallce
York Factory, B. A.	29.70	754.4	29.76	755.9	58.0	14.4	94	nw.	9	4.0		4 k	5 s	w.	w.	0	0	threatening	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 45° 20′, E. 12° 22′	30.10	764.5	75	23.9	72	calm			0		1	calm						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.11	764.8	72.5	22.5	93	sse.			5		10	sse.						rain-squalls
H. M. S. Gannet, N. 48° 45′, W. 7° 50′	29.90	759.4	59.2	15.1	73	wsw.			5		8					3	wnw.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.92	760.0	77	25.0	85	nnw.			2		1							blue sky.
H. M. S. Monarch, Fiume, Austria	30.01	762.2	71	21.7		ssw.			1		8							d. clouds.
H. M. S. Minotaur, N. 42° 28′, W. 8° 58′	30.16	766.1	63	17.2	80	sw.			1		2	sw.				1	wnw.	d. clouds.
H. M. S. Opal, N. 4° 30′, W. 9° 45′	30.02	762.5	79	26.1	82	s.			3		4	ssw.				2	ssw.	d. clouds.
H. M. S. Thetis, N. 49° 07′, W. 5° 54′	29.92	760.0	61	16.1	82	wsw.			4		6					3	wsw.	d. clouds.
H. M. S. Tenedos, White Bear Bay, N. F	30.30	769.5	58	14.4	94	wnw.			1		4	w.						d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	30.07	763.8	62	16.7	88	calm					10			0	0			foggy.
U. S. S. Dale, N. 37° 30′, W 74° 50′	29.96	761.0	74	23.3	90	sse.			3		2					mod.	e.	fair.
U. S. S. Lancaster, Stockholm, Sweden	30.21	767.3	63	17.2	83	se.			2		8		se.			sm'h		fair.
U. S. S. Nipsic, N. 37° 26′, W. 49° 05′ *	30.44	773.2	76	24.4	68	w.			1		2		sw.			sm'h		fair.
U. S. S. Portsmouth, Newport, R. I.	30.12	765.0	67	19.4	100	e.			2		10		se.					cloudy.
U. S. S. Powhatan, N. 30° 02′, W. 79° 30′	29.83	757.7	79	26.1	95	w.			4-5		10		w.			sm'h		raining.
U. S. S. Saratoga, Newport, R. I.	30.11	764.8	66	18.9	94	ene.			2		2?		ene.	0	0	sm'h		overcast?
U. S. S. Vandalia, N. 27° 47′ W. 73° 54′	30.04	763.0	81	27.2	74	wnw.			1		2					sm'h		fair.
U. S. S. Yantic, St Johns, N. F	30.31	769.9	51	10.6	93	ene.			1		10							foggy.
Cottica, N. 29° 43′, W. 55° 21′	30.39	771.9	77.5	25.3	86	e.			5		5							d. clouds.
May Hulse, N. 16° 55′, W. 35° 06′	30.13	765.3	77.5	25.3	75	ne.			5		10							overcast
H.P.M.S. Rio Lima, N. 26° 04′, W. 19° 31′	30.21	767.3	75.2	24.0	77	ne.			2		8		ne.			2		d. clouds.
S. S. Illinois, Liverpool, Eng	29.59	751.6	60	15.6		w.			5		10		wnw.					overcast.
S. S. Lord Clive, N. 50° 13′, W. 180 51′						sw.			3		5		sw.	0	0	sli't	n.	fine.
S. S. Lord Gough, N. 50° 50′, W. 23° 30′	29.64	752.8	54	12.2		se.			3		10		se.			mod.	w.	drizzling
S. S. Ohio, N. 42° 48′, W. 40° 25′†	30.12	765.0	65	18.3		nw.			4		8		w.	4 h'r	4 h'r	mod.	nw.	cloudy.
S. S. Pennsylvania, N. 33° 53′. W. 41° 16′ †	30.23	767.8	65	18.3		nnw.			1		2					sm'h		clear.
S. S. Scandinavian, N. 44° 34′, W. 54° 27′	30.26	768.6				nnw.			1		8		nnw.			mod.	ssw.	misty.
S. S. Grecian, N. 54° 30′, W. 27° 00′			50	10.0	86	ne.			1		10		ne.	8 h'r	8 h'r	sm'h		cloudy.
S. S. Polynesian, Quebec, Canada	30.14	765.5	62	16.7		ne.			6		9		ne.	o	o	sm'h	s.	cloudy.
S. S. Prussian, N. 42° 20′ W. 70° 55′	30.03	762.7	61	16.1		nne.			1		fg.			4 h'r	4 h'r	sm'h		foggy.
S. S. Manitoban, N. 48° 32′, W. 68° 37′	30.20	767.1	72	22.2	90	e.			4		8?		e.	5 h'r	5 h'r	sm'h		clear?
S. S. Sardinian, N. 46° 24′, W. 54° 26′	30.21	767.3	62	16.7		n.			1		fg			o	o	sm'h		foggy.
S. S. Alvo, Kingston, Jamaica, W. I*	30.04	763.0	78	25.6		e.			5		6		e.	o	o			fine.
S. S. Alene, Port Limon, Costa Rica †	29.96	761.0				var.			1-3		0					mod.	e.	misty.
S. S. Dorian, N. 41° 28′, E. 4° 13′	30.10	764.5	73	22.8		var.			1		0			o	o	sm'h		clear.
S. S. Furnessia, New York, NY†	29.93	760.2	73.2	22.9	93	e.			3		10			o	o			hazy.
S. S. Jerome, N. 30° 30′ W. 59° 54′*	30.09?	764.3?	76	24.4	100	sse.			4		4		sse.	1 h'r	1 h'r	sli't	s.	clear.
S. S. Llandaff City, N. 51° 02′, W. 17° 12′ †	29.69	754.1	62	16.7		wnw.			3		8		sw.	o	o	light	w.	cloudy.
S. S. Bothnia, N. 40° 26′, W. 71° 56′	30.01	762 2	72	22.2	80	ese.			3		10			o	o	sm'h	wsw.	overcast.
S. S. Scythia, N. 47° 25′, W. 34° 03′	29.70	754.4	62	16.7	100	wnw.			5		10			1 h'r	1 h'r	mod.	wnw.	cloudy.
S.S. Canada, N. 40° 29′, W. 68° 15′	30.13	765.3	68.0	20		nnw.			2		0	nnw.		o	o	sm'h	n.	covered.
S. S. France, N. 48° 17′, W. 21° 47′ †	29.60	751.7	59.0	15.0		se.			6		10		sw.	rain	rain	sm'h	nw.	
S. S. Abyssinia, N. 50° 38′, W. 24° 26′	29.69	754.1	56	13.3	87	se.			4		10		se.	3 h'r	3 h'r			cloudy.
S. S. Bohemia, Hamburg, Germany						se.			1		10		se.	4 h'r	4 h'r			raining.
S. S. Gellert, N. 44° 01′, W. 44° 48′	30.18	766.6	70	21.1	85	nnw.			4		10		n.	o	o	mod.	n.	covered.
S. S. Lessing, N. 48° 02′, W. 27° 30′	29.53	750.0	66	18.9		nw.			4		7		w.	4 h'r	4 h'r	r'gh	wsw.	hazy.
S. S. Silesia, Hamburg, Germany	29.85	758.2	63.5	17.5		s.			1		7		s.	3 h'r	3 h'r			squally.
S. S. City of Berlin, N. 47° 23′, W. 38° 46	29.78	756.4	58	14.4	88	nw.			6		10		nw.	16 h'r	16 h'r	hv'y	w.	overcast.
S. S. Mentmore, N. 49° 39′, W. 26° 00′*†	29.63	752.6				e.			6		10		e.	o	o	mod.		cloudy.
S. S. Bulgarian, N. 49° 00′, W. 36° 28′ *	29.82	757.4				nnw.			6		10		n.	o	o	high	n.	overcast.
S. S. Archimedes, Mersey river, Eng						wnw.			5		7		w.	1 h'r	1 h'r			fine.
S. S. Sirius, Lisbon, Portugal *	30.07	763.8				nw.			2		0			o	o			clear.
S. S. City of San Antonio, St. Simons Sound Fla.*†	29.88	758.9	79	26.1		w.			5		9							cloudy.
S. S. Colorado, N. 34° 43′, W. 73° 51′ †	30.00	762.0	73	22.8		e.			6		3		se.	o	o	small	se.	clear.
S. S. Chalmette, Algiers, La†	30.06	763.5	76	24.4		w.			1		6			o	o			fair.
S. S. New York, N. 25° 45′. W. 84° 45′*†	30.00	762.0	83	28.3		sw.			5		2		sw.			mod.	sw.	clear.
S. S. Lone Star, N. 24° 38′, W. 80° 43′†	30.04	763.0	84	28.9		sw.			1		2		calm	o	o	sm'h		clear.
S. S. Denmark, N. 42° 26′, W. 43° 24′ †	30.29	769.4	67	19.4		n.			4		5		n.	2 h'r	2 h'r	sli't	w.	fair.
S. S. England, N. 50° 27′, W. 17° 15′	29.84	757.9				sw.			2		0			o	o	sm'h		clear.
S. S. Erin, London, Eng	29.81	757.2	54	12.2		sw.			5		7		sw.	4 h'r	4 h'r			showery.
S. S. Helvetia, N. 40° 47′ W. 56° 46′	30.35	770.9	71	21.7	95	e.			1		2		se.	½ h'r	½ h'r	sli't	s.	clear.
S. S. Holland, N. 40° 40′, W. 58° 55′	30.17	766.3	77	25.0		s.			4		2		s.	1 h'r	1 h'r	mod.	sw.	clear.
S. S. The Queen, N. 44° 28′, W. 40° 30′	30.09	764.3	65	18.3	78	wnw.			5		10		nw.	3 h'r	3 h'r	r'gh	wnw.	overcast.
S S. Braunschweig, N. 40° 34′, W. 53° 06′	30.33	770.4	75.0	23.9	86	ssw.			4		8		ssw.	2 h'r	2 h'r	r'gh	ssw.	cloudy.
S. S. Elbe, Bremerhaven, Germany	29.88	759.0	59	15.0	88	nw.			4		10			4 h'r	4 h'r			squally.
S. S. Fulda, N. 48° 10′, W. 25° 53′	29.58	751.4	69	20.6	70	wsw.			4		3		w.	9 h'r	9 h'r	mod.	sw.	clear.
S. S. Habsburg, N. 40° 12′, W. 57° 46′	30.33	770.4				ese.			1-2		10		s.	3 h'r	3 h'r	sm'h	se.	heavy rain.
S. S. Neckar. N. 41° 30′. W. 48° 54′	30.33	770.4	66.0	18.9	89	wsw.			2		9		w.	o	o	mod.	w.	foggy.
S. S. Oder, N. 46° 39′, W. 32° 34′	29.73	755.1	61	16.1		nnw.			5		5		nw.	6 h'r	6 h'r	r'gh	w.	squally.
S. S. Ohio, N. 48° 00′, W. 17° 51′	29.91	759.7				s.			3		8		ssw.	o	o	light	var.	cloudy.
S. S. Salier, N. 49° 45′, W. 6° —′*	29.87	758.7	62	16.7	56	sw.			2		4		sw.	o	o	sm'h	sw.	fair.
S. S. Weser, N. 48° 05′, W. 29° 21′	29.65	753.1				nnw.			4		8		w.	8 h'r	8 h'r	r'gh	w.	cloudy.
S. S. City of Augusta, Savannah, Ga †	29.99	761.7				ese.			2		5		e.	o	o	sm'h		fair.
S. S. Colon, N. 12° 35′ W. 77° 27′ †	29.91	759.7	84	28.9	91	ne.			5		10		ne.	o	o	large	ne.	overcast.
S. S. Muriel, N. 33° 30′, W. 69° 45′	30.06	763 5	81	27.2		sw.			3		10		ssw.	sh'rs	sh'rs			overcast.
S. S. Rhynland, N. 41° 50′, W. 61° 00′	30.23	767.8	68	20.0	69	se.			5		8		se.	6 h'r	6 h'r	long	se.	squally.
S. S. Pennland, N. 49° 19′, W. 15° 40′	29.98	761.5	60	15.6	76	w.			6		7		w.	9 h'r	9 h'r	mod.	wnw.	fair.
S. S. Switzerland, N. 49° 27′ W. 16° 46′†	29.94	760.5				wnw.			1		8		wnw.	o	o	sm'h		cloudy.
S. S. Waesland, N. 41° 08′, W. 56° 10′	30.35	770.9	67	19.4		w.			2		5		nnw.	o	o	sm'h	w.	fair.
S. S. P. Caland, N. 49° 50′, W. 7° 40′	29.89	759.2	59.0	15	81	wsw.			3		7		w.			3	w.	fair.
S. S. Leerdam, N. 49° 47′, W. 11° —′	29.90	759.4	62.0	16.7	83	w.			5		9		w.	2 h'r	2 h'r	mod.	w.	cloudy.
S. S. W. A. Scholten, N. 43° 40′, W. 54° 47′	30.25	768.3	58.0	14.4	88	ne.			3		6		e.	6 h'r	6 h'r	1	e.	fair.
S. S. Belize, Savanilla, U.S.C *	29.81	757.2	85	29.4		ne.			4		8		ne.	o	o	sm'h		cloudy.
S. S. Valencia, La Guayra, Venezuela†	30.15	765.7	81	27.2	83	ne.			2		3		ene.	o	o	mod	ne.	clear.
S. S. State of Georgia, N. 53° 28′, W. 24° 49′ †	29.85	758.2	56	13.3		e.			2		8		s.	o	o	var.		cloudy.
S. S. State of Indiana, N. 46° 38′, W. 46° 00′ † *	30.25	768.3	49	9.4		n.			3		6		ne.	o	o	sm'h		fair.
S. S. Thingvalla, N. 41° 10′, W. 61° 04′ †.	30.20	767.1	74.3	23.5		sse.			3		5		sse.	6 h'r	6 h'r	r'gh	sse.	fair.
S. S. Romano, New York, N. Y			72	22.2					4		10			o	o			misty.
S. S. Daniel Steinmann, Montreal, Canada †	29.96	761.0	74	23.3		s.			2		3		ssw.	o	o			clear.
S S. Norman, N. 42° 23′, W. 71° 04′	29.96	761.0				ne.			1		fg.			o	o			dense fog.
S. S. Saxon, Philadelphia, Pa †	30.02	762.5				se.			6		10							threatening
S. S. Adriatic, N. 41° 46′, W. 51° 55′*†	30.39	771.9	68	20.0		wsw.			3		3		wsw.	4 h'r	4 h'r	sli't	sw.	hazy.
S. S. Celtic, N. 45° 04′, W. 41° 48′ †	30.13	765.3	62	16.7		nw.			5		10		ne.	o	o	mod.	n.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.10	764.5	72	22.2	74	wnw.			4		1			o	o			clear.
Schr. Abbie H. Gheen, Jersey City, N. J †	30.13	765.3	72	22.2		se.			4									drizzling.
Bg. Abbie Clifford, N. 38° 25′ W. 68° 38′†	30.04	763.0	72	22.2		nne.			2		5		nne.	o	o	mod.	se.	fair.
Bk. Aquidneck, N. 6° 34′, W. 29° 12′ *†	30.00	762.0				ssw.					8		ssw.	light	light	light	se.	cloudy.
Schr. Anna A. Holton, N. 25° 57′, W. 77° 57′ *†.	30.06	763.5	86	30.0		sw.			5		2		sw.	½ h'r	½ h'r	mod.	w.	clear.
Bk. Aureola, N. 51° 12′, W. 10° 58′ †	29.85	758.2	62	16.7		w.			3		2		w.	o	o	mod.	w.	clear.
Bk. Arda, Sackville, N. B						ene.			4		3		n.	o	o			clear.
S. S. Burswell, N. 39° 15′, W. 9° 48′*†	30.16	766.1	73	22.8		n.			2		2		calm	o	o	str'ng	nw.	clear.
Bg. Belle of the Bay, Apalachicola, Fla†	29.86	758.4				nw.			3		3		w.	2 h'r	2 h'r			clear.
Bk. Bayonaise, N. 22° 37′, W. 33° 00′			75.2	24.0		ene.			4		6		ene.			r'gh	ene.	fair.
Schr. C. R. Flint, N. 26° 28′, W. 93° 04′†	30.01	762.2	84	28.9		sse.			1		8		s'	2 h'r	2 h'r	short	se.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
Bk. Cato, N. 69° 55′, E. 35° 27′*†	30.12	765.0				wnw.			2		2		wnw.			sm'h	wnw	hazy.
Schr. Clotilde, N. 20° 55′, W. 97° 14′*†	29.86	758.4	81	27.2		nw.			1		10		se.	2 h'r	2 h'r	sm'h	ese.	
S. S. D. J. Foley, Port Antonio, Jamaica, W. I*†	30.10	764.5	79	26.1	86	ese.			2		4		ene.	0	0			fair.
Bkt. David A. Preston, Port Royal, S. C.						nw.			4		10		s.	0	0			
S. E. J. Spicer, N. 40° 17′, W. 73° 20′	30.09	764.3	70	21.1	100	se.			5		5		sw.	0	0	sm'h		foggy.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′			58	14.4		wsw.			6		7		wsw.	14 h'r	14 h'r			threatening
U. S. Fish Com. S. S. Fish Hawk, Norfolk, Va†	29.84	757.9	81	27.2	91	sse.			2		3		s.	0	0			clear.
S. Festina Lente, N. 46° 47′, W. 59° 17′	30.21	767.3	54	12.2		se.			3		3		nnw.	0	0	long	se.	clear.
Sch. F. E. Waters, N. 26° 46′, W. 77° 04′*†	30.10	764.5				sw.			2				sw.	4 h'r	4 h'r	sm'h		cloudy.
Bk. George Davis, N. 54° 42′, W. 12° 27′						w.			2					0	0		w.	clear.
Bgt. George, Ponce, Porto Rico, W. I*†	30.05	763.3	79	26.1		ne.			2		2			0	0	mod.	se.	fair.
Bk. Galeon, N. 37° 23′, W. 68° 50′†	30.06	763.5	76	24.4		ese.			2		3		se.	light	light	r'gh	e.	squally.
Bk. Heinrich & Tonio, N. 40° 45′, W. 65° 00′†	29.95?	760.7?	75	23.9		s.			5		6		s.	5 h'r	5 h'r	mod.	s.	clearing.
S. Hedwig, N. 43° 41′, E. 14° 52′	30.05	763.2	77.2	25.1	81	s.			2		7		nnw.	0	0			fine.
Bk. Hattie G. McFarland, New York, N. Y†	30.00	762.0	69	20.6		ene.			6		10		se.	3 h'r	3 h'r			stormy.
Bk. Harriet S. Jackson, N. 33° 04′, W. 73° 30′						se.			3		1		se.	0	0	long	sse.	fine.
Bk. Horace Scudder, N. 12° 54′, W. 70° 15′*†	30.09	764.3	80	26.7		e.			5		6		ese.	0	0	light	e.	fine.
Schr. Isabel Alberto, St. Augustine, Fla†	29.84	757.9				wsw.			1		10		w.	sh'rs	sh'rs			cloudy.
Bk. Johanne, N. 49° 36′, W. 66° 03′*†	30.22	767.6	51	10.6		ene.			5		8		ne; e.	0	0	mod.	e.	hazy.
Schr. John L. Thomas, Old Providence Island, C. A*†	30.00	762.0	86	30.0		e.			5		3		e.	10 minutes				fair.
Bg. John Wesley, N. 6° 30′, W. 24° 45′*†	29.95	760.7	78	25.6		calm			0		10			22 h'r	22 h'r	mod.	sse.	light rain.
Schr. Jennie N. Huddell, N. 36° 30′, W. 75° 05′†	29.96	761.0	78	25.6		e.			1		1		se.	0	0	light	e.	clear.
S. J. W. Gildemeister, N. 10° 15′, W. 25° 06′	30.05	763.3	81.5	27.5	80	nne.			2-3		1 k		ne.	0	0	3	ne.	misty.
Bkt. Kryolith, N. 54° 19′, W. 51° 47′*†	30.36	771.1				wsw.			3		2		wsw.	0	0	sm'h		clear.
Bg. L. & W. Armstrong, St. Pierre, Martiniuque, W I*†	30.10	764.5				ne.			1		2		ne.	1 h'r	1 h'r	sm'h		light rain.
Bg. Lillian, N. 38° 02′, W. 73° 30′†	30.03	762.7	73	22.8		se.			2		1			0	0	sm'h	e.	clear.
Bk. Louise Adelaide, Delaware Breakwater, Del†	30.06	763.5	72	22.2		sse.			3		5		s.	0	0	sm'h	se.	light clouds
Bk. Milo, N. 45° 08′, W. 60° 10′†	30.25	768.3				sw.			0-1		fg.							dense fog.
S. S. Madrid, N. 36° 50′, W. 75° 22′†	29.99	761.7	76	24.4	91	var.			2		0			0	0	sm'h	var.	clear.
Schr. Minnie A. Bonsall, Hudson river, N. Y†	30.00	762.0	72	22.2		s.			6				s.	0	0			cloudy.
Bgt. Myrtle, Mayagues, Porto Rico, W. I*†	30.20	767.1				e.			1				e.	0	0			fair.
S. S. Mendozo, N. 35° 16′, W. 55° 57′†	30.50	774.7				s.			2		2		s.	0	0	sm'h	se.	clear.
Bk. National Eagle, N. 37° 53′, W. 18° 24′						sw.			2		5		sw.	0	0			fair.
Bg. O. C. Clary, Guadeloupe, W. I*†	30.08	764.0				ese.			1		0							clear.
Bk. Orpheus, N. 38° 32′, W. 71° 05′	29.97	761.2	78	25.6		e.			2		0			0	0	sm'h		clear.
Bk. Ottawa, off Wisby, Sweden	30.11	764.8	50	10.0		ene.			2		6		s.	8 h'r	8 h'r	sm'h		clearing.
S. Paramita, N. 37° 57′, W 35° 18′†	30.18	766.6	71	21.7		nnw.			5		3		nw.	4 h'r	4 h'r	long	nnw.	clear.
S. S. Raleigh, off Cape Maysi, Cuba†	30.06	763.5	90	32.2		calm			0		0			0	0	sm'h		clear.
S. Rudolph, N. 45° 15′, W. 35° 19′			58.0	14.4		nw.			6		10		nw.	6 h'r	6 h'r	long	nw.	cloudy.
Bg. Rising Sun, N. 24° 10′, W. 65° 00′†	30.10	764.5	84	28.9		se.			4		1		se.	0	0	mod.	se.	
Bk. Rosino, N. 36° 12′, W. 3° 36′			71	21.7		calm			0		0			0	0	sm'h		clear.
Bk. Saga, N. 40° 10′, W. 68° 11′*†	30.04	763.0	66	18.9					2		0			0	0	long	ese.	foggy.
Bk. Sunbeam, N. 40° 25′, W. 20° 03′†	30.24	768.1	65	18.3	78	sw.			5		5		sw.	0	0	mod.	w.	fair.
Bk. Southern Belle, N. 26° 15′, W. 63° 24′†	30.22	767.6	78	25.6		se.			4		2		se.	0	0	mod.	se.	clear
S. Sovereign of the Seas, N. 8° 41′, W. 28° 23′*†	30.16	766.1	82	27.8	87	nne.			3		5		var.	0	0	sm'h	nne.	hazy.
S. S. Strathleven, N. 40° 19′, W. 71° 30′	30.07	763.8	64.0	17.8	97	e.			2		10			0	0	2	se.	foggy.
Bg. Teneriffe, N. 42° 57′, W. 44° 40′*	30.17	766.3				wnw.			3		8		nw.	0	0	mod.		
Bk. Tuck Sing, N. 31° 28′, W. 79° 15′*†	29.86	758.4				ssw.			2		10		sw.	½ h'r	½ h'r	light	n.	rainy.
Schr. Viola Reppard, Bath, Me†	30.09	764.3	68	20.0		s.			2		10		s.	0	0			foggy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†	30.04	763.0	81	27.2		wsw.			3		5		se.	3 h'r	3 h'r			fair.
Bgt. Sunlight, N. 11° 48′, W. 56° 30′						ese.			4		5		e.	½ h'r	½ h'r	mod.	e.	fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay†	29.99	761.7	55	12.8	100	ese.			2		10							thund'r st'm
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.12	765.0	62	16.7		nw.			4		2							blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	29.96	761.0	55	12.8	97	ese.			1		10							thund'r st'rm
U. S. S. Brooklyn, Montevideo, Uruguay*	29.96	761.0	56	13.3	94	ese.	8	3.6			10		calm	0.17	4.3	sm'h		raining.
U. S. S Galena, Montevideo, Uruguay*	29.96	761.0	56	13.3	94	ese.			3		10					sm'h		rainy.
U. S. S. Quinnebaug, S. 4° 40′, E. 10° 07′	30.09	764.3	77	25.0	77	se.			2		2		sse.			sm'h	se.	clear.
S. Annie M. Law, S. 31° 47′, E. 12° 05′*†	30.10	764.5	63	17.2		w.			2		4		wsw.	½ h'r	½ h'r	short	wsw.	
S. David Stewart, Pernambuco, Brazil†	29.90	759.4				se.			4		2		sse.	0	0			
S. Wm. McGilvery, S. 52° 49′, W. 64° 08′*†	29.70	754.4	44	6.7	92	sw.			1		0			0	0	sm'h		misty.
S. S. Olbers, S. 17° 32′, W. 37° 34′†	30.28	769.1	79	26.1	74	ene.			5		9		ese.	1 h'r	1 h'r	sli't	se.	drizzling.
Bk. Achille F, S. 35° 30′, W. 54° 30′†	30.01	762.2	58	14.4	88	se.			2		5		sse.	14 h'r	14 h'r	long	ese.	fair.
Bk. Alpheus Marshall, S. 3° 31′, W. 32° 56′*†	29.89	759.2				se.			3		3		se.	5 h'r	5 h'r			clear.
Bk. Ceylon, S. 6° 04′, W. 21° 02′*†	30.18	766.6	86	30.0	84	ese.			4		7		ese.	0	0	mod.	ese.	squally.
Bk. Gray Eagle, S. 11° 35′, W. 34° 05′*†	30.05	763.3				ese.			5		0			0	0	sm'h	sse.	clear.
H. P. M. S. Douro, S. 3° 19′, E. 10° 42′	30.12	765.0	75.2	24.0	79	ssw.			4		0			0	0	4	ssw.	
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.41	747.0	78	25.6	61	e.			1		7	e.						d. clouds.
H. M. S. Champion, Sulu Island, Oceania	29.76	755.9	81	27.2	91	sw.			1		8							d. clouds.
H. M. S. Espiegle, N. 5° 25′, E. 166° 40′	29.90	759.4	81	27.2	78	ese.			2		8					1	ne.	showery
H. M. S. Flying Fish, N. 37° 34′, E. 121° 26′	29.53	750.0	76.5	24.7	62	calm			0		3							d. clouds.
H. M. S. Magpie, N. 6° 08′, E. 118° 01′	29.85	758.2	79.5	26.4	78	sw.			1		10					1	wsw.	misty.
H. M. S. Zephyr, N. 35° 27′, E. 139° 39′	29.58	751.3	69	20.6	100	calm			0		10							raining.
H. P. M. S. Tamega, Macao, China	29.74	755.5	86.9	30.5	75	sw.			5		0			0	0			blue sky
U. S. Naval Hospital, Yokohama, Japan	29.72	754.9	68.5	20.3	97	calm			0		10			0.70	17.8			sprinkling.
U. S. S. Adams, Juman, Alaska†	29.85	758.2	48	8.9	85	calm			0		8					sm'h		cloudy.
H. M. S. Essex, Honolulu Sandwich Ids	30.10	764.5	76	24.4	64	ne.			1		2		ne.			sm'h		clear.
U. S. S. Hartford, N. 5° 50′, W. 158° 06′*	29.77	756.1	82	27.8	83	ese.			5		5		var.	sh'rs	sh'rs	mod.	var.	fair.
U. S. S. Monocacy, Salee river, Corea	29.55	750.6	68	20.0	84	ssw.			2		10		calm					misty.
U. S. S. Palos, Hong Kong, China	29.61	752.1	87	30.6	74	sw.			2		5		sw.					fair.
U. S. S. Richmond, Shanghai, China *	29.54	750.3	74	23.3	95	sse.			1		10		sse.	7.	178.			raining.
S. S. Coptic, N. 42° 40′, E. 156° 25′	29.98	761.5	47.5	8.6	62	var.			1		10		nw.	0	0	mod.	nw.	overcast.
S.S. Oceanic, N. 38° 42′, W. 125° 30′	30.08	764.0	60	15.6	82	calm			0		8		w.			sm'h	nw.	cloudy.
S. S. Columbia, West Port, Oregon †	29.93	760.2	60	15.6	82	wsw.			2		9		wsw.					cloudy.
S. S. Oregon, San Francisco, Cal†	29.96	761.0	54	12.2	93	calm			0		0							hazy.
S. S. Ancon, N. 35° 10′, W. 120° 48′†	29.96	761.0	55	12.8	93	nw.			3		0					mod.	wnw.	clear.
S. S. City of Chester, San Francisco, Cal.†	29.91	759.7	53	11.7	86	calm			0		0							
S. S. Dakota, San Francisco, Cal.			56	13.3	81	nw.			5		2		nw.			long	nw.	clear.
S. S. Queen of the Pacific, Portland, Oregon†	29.96	761.0	53	11.7		se.			2		10			0	0			overcast.
S. S. City of Pekin, N. 46 22′, W. 178° 15′†	30.54	775.7	51	10.6	93	sse.			4		10		sw.	0	0	mod.	sw.	overcast.
S. S. City of Rio de Janeiro, N. 22° 17′, E. 115° 03′†	29.85	758.2	83	28.3	87	sw.			1		2		sw.	0	0	light	sw.	clear.
S. S. Colima, Panama, Panama†	29.91	759.7	77	25.0	91	wnw.			3		10		nw.	0.05	1.3			cloudy.
S. S. San Blas, Mazatlan, Mexico			81	27.2		ne.			1		1		ssw.	1 h'r	1 h'r	sm'h	ssw.	clear.
S. S. San José, N. 16° 40′, W. 99° 43′†	29.97	761.2	84	28.9		ene.			2		2cs		e.	0	0	h'vy	ese.	squally.
S. S. Benledi, Shanghai, China*†	29.67	753.6	76	24.4	95	sse.			2-3		8			4 h'r	4 h'r	sm'h		rainy.
S. S. Radnorshire, Shanghai, China*†	29.58	751.3				sw.			4		10		sw.	8 h'r	8 h'r			heavy rain.
S. Sacramento, Zebu, Philippine Ids*†	29.94	760.5	83	28.3	79	sw.			4		8		sw.	2 h'r	2 h'r	sm'h		cloudy.
S. St. David, N. 30° 12′, E. 134° 50′ *†	29.64	752.8	80	26.7	91	wsw.			5		8		var.	0	0	cf'd	var.	hazy.
Bk. Xenia, N. 28° 10′, E. 122° 30′			82	27.8		calm			0		8		calm	0	0	chop	ssw.	misty.
H. M. S. Sappho, San Delgo, Mexico	29.79	756.7	66	18.9	100	ene.			1									blue sky.
U. S. S. Ranger, La Union, San Salvador	29.95	760.7	77	25.0	91	se.			3		5		calm	0	0	sm'h		fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. Henry Failing, Wilmington, Cal†	29.77	756.1	70	21.1	.....	e.	.....	.....	3	.....	fg.	.....	.....	0	0	sm'h	se.	
S. Grecian, Yokohama, Japan	.....	.....	73	22.8	85	calm	.....	.....	0	.....	10	.....	.....	15 h'r	15 h'r	.....	.....	overcast.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W.	.....	.....	56	13.3	75	wsw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Kingfisher, S. 35° 50′, W. 83° 34′	29.91	759.7	52	11.1	.....	s.	.....	.....	2–4	.....	6	.....	.....	.....	.....	7	ssw.	showery.
H. M. S. Nelson, Souva, Feejee Ids	29.69	754.1	74	23.3	81	se.	.....	.....	1–3	.....	6	nw.	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Iroquois, S. 31° 39′, W. 72° 10′	29.91	759.7	57	13.9	81	e.	.....	.....	5	.....	10	.....	n.	.....	.....	mod.	n.	cloudy.
U. S. S. Lackawanna, Callao, Peru *	29.97	761.2	62	16.7	83	se.	.....	.....	3	.....	8	.....	se.	.....	.....	.....	.....	cloudy.
U. S. S. Onward, Callao, Peru†	30.12	765.0	62	16.7	83	se.	.....	.....	4	.....	10	.....	se.	.....	.....	.....	.....	cloudy.
U. S. S. Pensacola. Callao, Peru*	29.95	760.7	62	16.7	88	se.	12	5.4	.....	.....	10	.....	se.	0	0	.....	.....	misty.
U. S. S. Wachusetts, Noukahiva, Marquesas Ids	30.00	762.0	78	25.6	86	nw.	.....	.....	1	.....	2	.....	n.	.....	.....	sm'h	.....	clear.
S. S. Australia, Sydney, N. S. W	30.26	768.6	52	11.1	93	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, S. 16° 22′, W. 171° 02′†	29.93	760.2	78	25.6	82	ne.	.....	.....	5	.....	8	.....	ne.	1 h'r	1 h'r	hv'y	ese.	cloudy.
S. S. City of Sydney, S. 6° 22′, W. 168° 05′*†	29.85	758.2	83	28.3	?	e.	.....	.....	2	.....	2 k	.....	.....	.....	.....	mod	ene.	clear
H. M. S. Lark, S. 7° 09′, E. 155° 47′	29.91	759.7	78.3	25.7	89	ese.	.....	.....	4	.....	8	.....	.....	.....	.....	1	se.	squally.
Bk. Edmund Phinney, S. 22° 50′, W. 75° 50′ *†	30.04	763.0	59	15.0	.....	wnw.	.....	.....	3	.....	6	.....	sw.	½ h'r	½ h'r	long	sw.	fair.
S. Parker M. Whitmore, S. 14° 09′, W. 110° 25′ *†	30.09	764.3	71	21.7	.....	ese.	.....	.....	6	.....	5	.....	ese.	light	light	cross	var.	fair.
S. Storm King, S. 4° 35′, W. 109° 13′ *†	29.95	760.7	.....	.....	.....	ese	.....	.....	4	.....	1	.....	se.	0	0	sm'h	se.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.09	764.3	80	26.7	91	sse.	.....	.....	5	.....	3	sse.	.....	.....	.....	3	sse.	d. clouds.
H. M. S. Sheldrake, S. 3° 09′, E. 106° 26′	.....	.....	83	28.3	.....	ese.	.....	.....	2	.....	2	.....	.....	.....	.....	2	s.	d. clouds.
H. M. S. Tourmaline, Trincomalee, Ceylon, India	29.78	756.4	87	30.6	65	sw.	.....	.....	2	.....	3	sw.	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Enterprise, Majunga, Madagascar, Africa	30.25	768.3	80	26.7	87	s.	.....	.....	2	.....	2	.....	calm	.....	.....	sm'h	.....	clear.
U. S. S. Juniata, Trincomalee, Ceylon, India	29.84	757.9	86	30.0	96	wsw.	.....	.....	3	.....	5	.....	sw.	0	0	.....	.....	fair.
S. S. Toledo, N. 23° 55′, E. 37° 08′ *†	29.88	758.9	84	28.9	.....	nnw.	.....	.....	6	.....	0	.....	.....	.....	.....	h'vy	nnw.	clear.
S. S. Malabar, N. 6° 50′, E. 69° 41′ *†	29.86	758.4	.....	.....	.....	nw.	.....	.....	6	.....	10	.....	nw.	0	0	h'vy	nw.	cloudy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 27, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours			30.04	763.0	74.8	23.8	81	n.			3		0			0	0	clear	Malaterre.
Algiers			30.04	763.1	74.5	23.6	72	ene.			1		0			0	0	clear	Thève.
La Galle			30.02	762.5															Fonfrède.
Tunis			30.02	762.5															Jacques.
Saida			30.04	763.1															Pérès.
Tebessa			29.97	761.3	90.3	32.4	34	n.			1		0			0	0	clear	St. Martin.
Geriville					96.8	36.0	7	n.			1		0			0	0	clear	Forfert.
Laghouat			29.95	760.6	102.6	39.2	18	e.			2		0			0	0	clear	Abraham.
Biskra			29.94	760.4	101.8	38.8	20	nw.			1		0			0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			30.36	771.1	47.7	8.7	88	nne.	8	3.6			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.12	765.0	30.21	767.3	56.3	13.5	77	nw.	7	3.1			10			0	0	dull	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.49	749.0	30.02	762.4	75.2	24.0	56	sw.			2		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.30	744.3	30.05	763.3	70.5	21.4	64		9.4	4.2			7			0	0		Dr. Wierzbiski
Eperies	29.14	740.1	29.98	761.6	72.0	22.2	57	n.			2	0	6 ks		s.	0	0		Julius Mikolik.
Gratz	28.82	731.9	30.02	762.4	73.4	23.0	72	se.			2		8			0.059	1.5	lightning	Andreas Rospini.
Hermannstadt	28.56	725.4	29.94	760.5	69.8	21.0	60	e.			2		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.2	30.05	763.3	67.1	19.5	67	wnw.			1	10 ck				0	0	covered	The Staff.
Lemberg	29.11	739.3	30.07	763.7	67.3	19.6	54	se.			4		7			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szoutagh.
Pola	29.90	759.5	30.01	762.2	76.1	24.5	82	wsw.			2		3			0	0		I. R.Hydrographic Office.
Szathmar	29.48	748.9	29.94	760.4	76.3	24.6	42	e.			4		10			0	0		Joseph Midlinszky, S. J.
Szegedin	29.66	753.3	29.93	760.1	76.3	24.6	53	w.			1		4			0	0		Karl Stancel.
Trieste	29.93	760.1	30.02	762.6	79.9	26.6	56	nw.			1		8			0.433	11.0		Royal Academy.
Vienna	29.34	745.3	30.03	762.7	76.3	24.6	50	nw.			2		3			0.024	0.6	thund'rst'm	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.59	751.6	29.68	753.9	56.0	13.3	69	s.	21	9.4			6			0.080	2.0	d. clouds	W. Boswell.
Armagh, Observatory	29.44	747.8	29.66	753.4	58.3	14.6	62	s.	15	6.7			7					d. clouds	S. Gall.
Bidston, Liverpool Obs'y			29.77	756.1	58.4	14.7	76	sse.	15	6.7			10					overcast	John Harnup.
Bolton, Sharples	29.26	743.2	29.79	756.7	56.6	13.6	72	s.	12	5.4			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.40	746.7	29.79	756.7	61.8	16.6	52	sw.			3		6			0.59	15.0	d. clouds	McLandsborough&Preston
Bridgetown, Barbadoes	29.98	761.5	30.00	762.0	83.0	28.3	75	ne.			2		2					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.76	755.9	29.86	758.4	64.4	18.0	75	sw.			1.0		8					overcast	John McLaren.
Chatham, School M. E.	29.80	756.9	29.92	760.0	62.8	17.1	70	sw.			2		7					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.55	750.6	29.78	756.4	56.2	13.4	97	s			6		10					raining	The Staff.
Fort Napier, Natal	27.92	709.2	30.14	765.5	78.0	25.6	36	e.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.66	753.4	29.89	759.2	80.0	26.7	91	e.			2		3					raining	J. W. Smith.
Galway, Queen's College	29.56	750.8	29.59	751.6	60	15.6	82	s.			1		3			0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	74.0	23.3	81	w.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.46	748.3	29.67	753.6	58.8	14.9	60	s.			3		7					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.76	755.9	29.93	760.2	62.0	16.7	70	ssw.			4		10					overcast	The Staff.
Guernsey	29.64	752.8	29.93	760.2	59.0	15.0	91	s.			2		10					overcast	A. Collenette, F. M. S.
Kew, Observatory	29.89	759.2	29.93	760.2	61.8	16.6	74	s.	18	8.0			10					threatening	The Staff.
Leicester, Museum	29.59	751.6	29.84	757.9	61.5	16.4	77	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.98	761.5	76.2	24.6	95	ne.			2		0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.10	764.5	30.15	765.8	87.5	30.8	64	sw.			1		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.33	745.0	29.84	757.9	61.4	16.3	62	sw.			6		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.65	753.1	29.88	758.9	62.8	17.1	67	s.			4		8					squally	The Staff.
Plymouth	29.76	755.9	29.84	757.9	56.1	13.4	95	s.			4		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.48	748.8	29.58	751.3	57.2	14.0	72						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.79	756.7	29.85	758.2	71.0	21.7	76	w.			1		7					d. clouds	W. H. Lyne.
Sheffield	29.54	750.3	29.82	757.4	61.3	16.3	91	ssw.			2		8			0.18	4.6	overcast	W. F. Cooper.
Silloth Rectory	29.70	754.4	29.73	755.1	61.5	16.4	67	w.			4		4			0.250	6.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	29.70	754.4	29.78	756.4	60	15.6	88	sw.			7		10					raining	W. Newcombe.
Valencia, Observatory	29.50	749.3	29.52	749.8	58.1	14.5	82	ne.	20	8.9			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.64	752.8	30.03	762.7	79.9	26.6	41	se.	3.7	1.7						0	0	clear	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.					55.0	12.8		calm	0	0			10 ks			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	761.7	30.03	762.7	66	18.9	94	se.	3	1.3		0	5 s			0.020	0.5	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.05	763.3	30.11	764.8	55	12.8	93	n.	1	0.4			10 s		n.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.78	756.4	29.96	761.0	67.8	19.9	89	e.			1		10 s			0.052	1.4	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.06	763.5	30.11	764.8	55.5	13.1		w.			1		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.05	763.3	30.07	763.8	48	8.9	89	nw.	8	3.6			8 n		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.12	739.6	29.92	760.0	65	18.3	75	s.				2 k	0	w.		0	0	fair	James Stewart.
Fredericton, N. B.	30.06	763.5	30.12	765.0	59.9	15.5	83	se.	1	0.4			10 s			0	0	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.81	731.8	29.89	759.2	58.0	14.4	100	calm	0	0		6 c	0	e.		0	0	fair	Jas. Grant.
Halifax, N. S*	29.96	761.0	30.08	764.0	57	13.9	96	sw.	6	2.7		10 k	0	sw.		0.219	5.6	cloudy	A. Allison.
Hamilton, Ontario	29.49	749.0	29.87	758.7	61.7	16.5	98	ne.			1	10 cs	0	w.		0.10	2.5	misty	Geo. Dickson, B. A.
Kingston, Ontario*	29.65	753.1	29.97	761.2	68	20.0	93	se.	4	1.8			10 ks		se.	0.07	1.8	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.03	762.7	30.07	763.8	69.7	20.9	87	sw.			3		10 n			0.30	7.6	overcast	C. H. Rigby.
London, Ontario	29.01	736.8	29.90	759.4	58.0	14.4	98	calm				0	8 ks			inap.	inap.	d. clouds	E. B. Reed.
Montreal, Quebec*	29.80	756.9	30.00	762.0	69	20.6	78	s.	8	3.6			10 s		s.	0.01	0.3	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.75	755.6	29.98	761.5	66.7	19.3		e.			1		10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.28	743.7	29.95	760.7	66	18.9	93	sw.	3	1.3		5 k	5 ks	se.	se.	0.08	2.0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.23	742.4	29.94	760.5	68	20.0	91	se.			1		10 ks			0.300	7.6	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.22	742.2	29.89	759.2	63	17.2	94	n.	5	2.2			fg.			0.01	0.3	foggy	H Morgan.
Port Stanley, Ontario	29.27	743.4	29.90	759.4	59	15.0	93	n.	5	2.2		8 ck	0	se.		inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.72	754.9	30.07	763.8	56	13.3	96	n.	6	2.7			10 s		n.	0	0	foggy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.51	749.5	29.96	761.0	63	17.2	93	calm	0	0			fg.			0.10	2.5	foggy	W. H. McIntyre.
St. Andrews, N. B.	30.03	762.7	30.08	764.0	63	17.2	88	ne.	3	1.3		2 k	5 k			0	0	fair	
St. John, N. B	29.92	760.0	30.09	764.3	59.0	15.0	94	ne.	7	3.1			10 ks			0.015	0.4	overcast	G. Murdock, C. E.
Saint John's, N. F.	30.16	766.1	30.41	772.4	53	11.7	93	ne.			2		10 ks			0	0	d. clouds	J. Higgins.
St. Pierre, N. F.			30.16	766.1	55.4	13.0		s.			2					0	0		The Commandant.
Saugeen, Ontario*	29.23	742.4	29.92	760.0	61	16.1	93	e.	4	1.8		0	0			0.02	0.5	clear	
Stratford, Ontario	28.66	728.0	29.90	759.4	63.1	17.3	97	e.	3	1.3			10 s			0	0	d. clouds	C. J. Macgregor, M A.
Sydney, C. B*	30.03	762.7	30.09	764.3	64	17.8	93	sw.	10	4.5			10 n			0.39	9.9	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.56	750.8	29.93	760.2	64	17.8	97	e.	5	2.2			10 n			0.15	3.8	cloudy	Magnetic Observatory.
Windsor, N. S	29.95	760.7	30.04	763.0	60.0	15.6	94	sw.	2	0.9		0	9 ks			0	0	d. clouds	Prof. W. H. Butler, M.A.
Woodstock, Ontario	28.88	733.5	29.91	759.7	64.8	18.2	93	ne.	9	4.0			10 s			0	0	hazy	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.03	762.7	30.10	764.5	51	10.6	100	nw.	1	0.4			fg			0.05	1.3	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Cape Colony.																			
Cape St. Francis Lt. House	30.20	767.1	30.23	767.8	65.0	18.3	78	sw.	5.8	2.6		0	0			0	0	fine	John Duthie
Springbok Fontein	28.06	712.7			71	21.7	22	n.											J. T. Eust &c.
Chinese (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kia-tchouang	29.47	748.4	29.58	751.2	83.3	28.5	43	calm			0		4			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.69	754.1	29.71	754.7	73.8	23.2	94	se.	0.4	0.2		8 ck	0			0.429	10.9	almost cov'd	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.02	762.4	30.06	763.6	68.2	20.1	61	sse.	13	6			2						Oversergent Fischer.
Fanoe	30.02	762.4	30.04	762.9	62.6	17.0	80	sw.			4		5						Overloerer Lauridsen.
Godthaab, Greenland	29.88	759.0	29.93	760.1	35.4	1.9	95	n.			2		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.89	759.1	29.93	760.3	36.7	2.6		n.			2		7						
Stykkisholm, Iceland	29.75	755.7	29.80	756.8	52.9	11.6	85	e.			2		8						A. O. Thorlacius.
Thorshavn	29.61	752.1	29.63	752.7	52.9	11.6	92	ene.	16	7			7						Overloerer Borgh.
Vestervig	29.90	759.5	29.99	761.8	62.8	17.1	78	ssw.			6		1						Loerer Oesterbol.
Egyptian.																			
Cairo	29.76	755.8			87.3	30.7		nw.	6.0	2.7		0	0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.49	749.0	30.11	764.9	73.0	22.8	69	e.			1		kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.51	749.5	30.06	763.5	66.2	19	84	s.			3		kn		n.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.98	761.6	30.06	763.6	81.3	27.4	43	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.56	750.8	30.10	764.5	69.1	20.6	50	w.			2	0	5 kn			0.008	0.2	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.84	757.9	30.10	764.5	68.0	20	67	s.			1		8		sw.	0.098	2.5	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.23	742.4	30.06	763.6	71.2	21.8	51	sw.			1	0	5 cn		nw	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.82	757.4	30.07	763.8	71.1	21.7	52	ese.			1		5		w.	0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.56	750.9	30.10	764.5	68.9	20.5	53	sse.			1		k		sse.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.72	755.0	29.97	761.2	57.6	14.2	95	sw.			3		10		sw.	0.031	0.8	raining	M. de Kermarée, Dir.
Caen, Normal School	29.89	759.3	29.97	761.1	68.0	20	59	s.			1		10		sw.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.76	755.9	30.07	763.8	70.3	21.3	60	s.			2		5		w.	0.051	1.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.56	750.9	30.06	763.6	69.1	20.6	59	s.			3		5			0	0	½ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.73	729.8	30.05	763.3	68.0	20.0	47	nw.			1	ck	8 k			0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.26	743.3	30.10	764.4	73.4	23	44	s.			2	2	3		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.27	743.5	30.12	765.0	65.5	18.6	57	w.			1		kn	w.	w.	0.228	5.8		Dr. Coulet, Director.
Gap, Normal School	27.55	699.7	29.98	761.6	75.2	24	31	calm			0	3 ck	0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.95	735.2	30.02	762.4	80.6	27.0	31	w.			2		2		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.30	744.1	30.05	763.2	74.5	23.6	58	nw.			2	cs	2 k			0.008	0.2	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.53	724.7	30.07	763.8	66.2	19	63	nw.			1		1		s.	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.91	759.6	30.17	766.4	61.9	16.6	70	s.					k		s.	0.04	1.		M. Ollitrault, Director.
Lescar, Normal School	29.49	749.0	30.07	763.7	73.8	23.2	67	se.			3	0	0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.93	760.1	30.03	762.7	64.8	18.2	72	sw.			3		10	calm	s.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.0	30.08	764.0	69.8	21.0	42	e.			1	5 ck	0	sw.		0.016	0.4	fair	M. André, Director.
Mans, Normal School	29.76	755.9	30.06	763.6	66.7	19.3	68	sw.			3		8		sw.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.80	756.8	30.06	763.5	72.5	22.5	74	w.			1		1		wsw.	0	0		M. Stephan, Director.
Montlouis	24.82	630.3	29.66	753.3	65.5	18.6	26	wsw.	3.8	1.7			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.91	759.6	30.03	762.7	79.9	26.6	64	sse.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.33	744.9	30.09	764.3	66.9	19.4	63	s.			1		kn		sw.	0.028	0.7		M. Hasse, Director.
Nantes, Observatory	29.92	759.9	30.08	764.0	71.6	22.0	53	wsw.			1–2	0	8 k; kn		sw.	0.051	1.3		M. Larocque, Director.
Perpignan, Observatory	29.96	761.0	30.07	763.7	74.8	23.8	48	ne	13.0	5.8			0			0	0		Dr. Flues, Director.
Pic-du-Midi, Summit	21.66	543.7			47.1	8.4		wsw.			1		1		wsw.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.03	737.3	30.06	763.4	73.4	23	49	ne.			1	2 c	0	w.		0.28	7.	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.28	642.0			50.5	10.3	88	s.			2		8			0	0	¾ covered	M. Alluard.
Rochefort, Naval Obs'y	30.03	762.7	30.06	763.5	74.8	23.8	51	sw.			1		2		w.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.82	757.3	30.02	762.6	72.3	22.4	50	w.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.00	711.1	30.06	763.4	73.8	23.2		nw.			3	0	1 cn		e.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.00	762.1	30.05	763.3	66.6	19.2	68	wsw.			2		8	sw.		0.209	5.3	very cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.92	760.0	30.08	764.1	64.8	18.2	62	sw.			1		1		sw.	0.008	0.2		M. Renou, Director.
Toulouse, Observatory	29.41	746.9	30.13	765.3	80.4	26.9	59	ne.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	29.90	759.5	30.08	764.0	70.5	21.4	54	w.			1		5	sw.	ssw.	0.024	0.6	cloudy	M. de Tastes.
Versailles, Observatory	29.59	751.5	30.08	764.0	65.8	18.8	61	sw.			1					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.91	759.8	30.06	763.6	75.6	24.2	54	e.	7.8	3.5		2 c	0			0	0		M. Cartier, Director.
German.																			
Anshach	28.69	728.6	30.10	764.5	66.9	19.4	68	calm			0		7			0.311	7.9		Prof. Jnedt.
Bamberg	29.24	742.6	30.08	764.1	67.6	19.8	55	sw.			2	0	9 n		sw.	0.118	3.0	rainy	Prof. Dr. Hoh.
Berlin	29.89	759.2	30.03	762.7	74.8	23.8	52	calm			0		8			0.016	0.4		Dr. Sensch.
Breslau	29.57	751.0	30.10	764.5	74.8	23.8	52	e.			2		6	w.		0	0		Royal University Obs'y.
Carlsruhe	29.65	753.1	30.10	764.4	72.0	22.2	45	sw.			3		10	sw.		0	0		Albert Senz.
Cassel	29.35	745.4	30.06	763.5	70.3	21.3	48	s.			3		7	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.06	763.6	70.7	21.5	52	s.			1		9			0	0		Physical Society.
Friedrichshafen	28.70	728.9	30.07	763.7	70.5	21.4	65	sw.			2		9	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.98	761.5	30.07	763.8	68.5	20.3	70	nw.			2		6			0.055	1.4		E. Preller.
Kiel	30.04	763.0	30.06	763.4	65.1	18.4	63	w.			4		9			0.425	10.8		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.67	753.5	30.07	763.8	74.1	23.4	36	wsw.			2		4	sw.		0.039	1.0		H. Leppig, Asst.
Magdeburg	29.87	758.8	30.05	763.3	74.3	23.5	46	wsw.			1		4	se.		0.110	2.8		Weather Observatory
Memel	30.13	765.3	30.18	766.5	73.4	23.0	48	ssw.			2	0	2 k						Issermann.
Munich	28.30	718.7	30.17	766.2	68.4	20.2	57	e.			2		6	sw.		0	0		Central Station.
Neufahrwasser	30.09	764.3	30.11	764.7	74.7	23.7	59	e.			2		5			0.004	0.1		A. Lothes.
Neustadt, Palatinate	29.53	750.0	30.06	763.4	70.7	21.5	48	calm			0		9			0	0		Dicknether.
Stuttgart	29.15	740.5	30.03	762.7	66.2	19.0	72	n.			1		10			0.031	0.8	showery	Prof. Dr. Schoder.
Wustrow	30.07	763.8	30.10	764.5	74.3	23.5	46	sw.			2	0	3 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.53	750.1	29.90	759.4	80.1	26.7		s.			1.0		5 k			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.35	745.4	29.40	746.6	89.8	32.1	73	wsw.	28.0	12.5			8		wsw.	0	0	d. clouds	
Deesa	28.93	734.7	29.38	746.2	97.6	36.4	41	ssw.	16.0	7.2			5	s.	s.	0.01	0.3	d. clouds	
Bombay	29.59	751.6	29.63	752.6	84.1	28.9	82	wsw.	23.0	10.3			10		wsw.	0.17	4.3	overcast	
Poona, Yarrowda	27.80	706.1	29.65	753.1	76.4	24.7	76	sw.	27.0	12.1			10			0.21	5.3	overcast	
Trichinopoly	29.48	748.8	29.75	755.7	91.5	33.1	46	w.	1.0	0.4			6	nne.	ne.	0	0	d. clouds	
Belgaum	27.18	690.3	29.72	754.9	72.0	22.2	87	wsw.	13.0	5.8			10	s.	w.	0.99	25.2	d. clouds	
Lahore	28.56	725.5	29.26	743.1	106.1	41.2	33	e.	8.0	3.6			10			0	0	overcast	
Roorkee	28.56	725.4	29.43	747.6	86.8	30.4	72	e.	6.0	2.7			1			0.95	24.1	gloomy	
Agra	28.92	734.4	29.47	748.6	83.2	28.4	75	sw.	8.0	3.6			6		w.	0.11	2.8	d. clouds	
Nagpur	28.47	723.2	29.51	749.6	74.5	23.6	95	sw.	10.0	4.5			10		w.	1.06	26.9	overcast	
Jubbulpore	28.15	714.9	29.49	749.0	79.0	26.1	87	w.	8.0	3.6			10		w.	1.28	32.5	overcast	
Lucknow	29.08	738.6	29.44	747.8	91.1	32.8	62	e.	5.0	2.2			4	wsw.		0	0	d. clouds	
Allahabad	29.11	739.4	29.42	747.2	89.3	31.8	66	ne.	4.0	1.8			2			0	0	d. clouds	
Patna	29.28	743.6	29.46	748.2	87.8	31.0	71	ene.	4.3	1.9			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.47	697.8	29.46	748.4	81.0	27.2	74	ese.	6.1	2.7			9	ese.		0	0	d. clouds	
Cuttack	29.34	745.2	29.42	747.2	84.1	28.9	79	calm	0	0			10		nw.	0.18	4.6	drizzling	
Calcutta, Alipore	29.39	746.6	29.41	747.1	85.5	29.7	77	e.	6.5	2.9			9		e.	0.33	8.4	d. clouds	
Dhubri	29.36	745.9	29.48	748.8	80.7	27.1	86	sw.	3.0	1.3			5		e.	0.08	2.0	d. clouds	
Chittagong	29.42	747.3	29.51	749.5	79.8	26.6	91	se.	5.0	2.2			10		sse.	0	0	overcast	
Sibsagar	29.19	741.4	29.52	749.7	86.2	30.1	77	ne.	2.0	0.9			6	e.	e.	0.22	5.6	d. clouds	
Teypore	28.07	713.0	29.51	749.5	75.7	24.3	93	wsw.	8.5	3.8			10		ssw.	0.56	14.3	overcast	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Zanzibar	30.07	763.8	30.10	764.4	80.7	27.1	60	sse.	12.7	5.7			6	s.	ese.	0	0	d. clouds	
Bellary	28.22	716.8			78.8	26.0	69	w.	8	3.6		4 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.62	752.4	30.02	762.5	80.8	27.1	40	se.	1.3	0.6			9			0.035	0.9		Prof. Giovanni Clodig.
Milan	29.55	750.6	30.05	763.3	77.5	25.3	44	s.	1.8	0.8			8	ssw.		0.004	0.1		Prof. G.V.Schiapparelli.
Padua	29.91	759.7	30.02	762.4	79.2	26.2	45	nw.	1.8	0.8			8	nw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.15	740.5	30.03	762.8	73.2	22.9	60	n.	4.3	1.9			8	n.		0	0		Prof. F. F. Denza.
Genoa	29.86	758.6	30.05	763.3	73.0	22.8	65	sw.	4.3	1.9			2	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.17	715.5	30.02	762.6	72.5	22.5	61	ne.			2		2	nw.		0.079	2.0		Prof. D. C. Bruno.
Pesaro	29.96	760.9	30.00	762.1	71.6	22.0	71	e.	6.9	3.1			10			0	0		Prof. Luigi Guidi.
Florence	29.77	756.2	30.02	762.6	81.5	27.5	43	w.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.91	759.7	29.99	761.8	74.7	23.7	67	w.	0.7	0.3			9			0	0		Prof. P. Monte.
Rome	29.84	757.8	30.00	762.1	82.9	28.3	20	wsw.	7.4	3.3			6			0	0		Prof. P. Tacchini.
Lecce	29.72	754.9	29.97	761.1	78.8	26.0	26	nne.	9.4	4.2			1			0	0		Prof. C. de Giorgi.
Cosenza	29.11	739.4	29.96	761.0	87.1	30.6	68	sse.	2.5	1.1			1	se.		0	0		Prof. D. Conti.
Cagliari	29.83	757.6	30.02	762.4	73.4	23.0	58	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.78	756.5	30.03	762.7	77.2	25.1	49	ene.	6.9	3.1			3			0	0		Prof. G. Cacciatore.
Syracuse	29.91	759.6	29.95	760.7	83.5	28.6	57	sse.	2.5	1.1			7	s.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.50	749.3	30.00	762.1	81.0	27.2	60	se.	0	0			2			0	0		Prof. F. Brioschi.
Stelvio	22.31	567.2			44.6	7.0	66	w.			4		10			0	0	covered	Prof. P. F. Denza.
Valdobbin	22.35	567.7			47.3	8.5	71	nw.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.73	755.3	29.77	756.2	60.1	15.6	94	sw.			2		10 n		sw.	0.311	7.9	raining	H. Hattori.
Awomori	29.67	753.6	29.70	754.4	65.3	18.5	72	s.	11.8	5.3			10s;ks			0.004	0.1	overcast	K. Ogawa.
Hamamatsu	29.73	755.1	29.76	755.8	73.8	23.2	76	w.			4	7 cs	0	w.		0	0	cloudy	Y. Sekigawa.
Kanazawa	29.72	755.0	29.82	757.5	66.3	19.1	86	nw.	2.2	1.0			10ck;s			0.020	0.5	cloudy	S. Endo.
Kagoshima	29.75	755.7	29.76	756.0	78.5	25.8	86	sw.			2		10 n			0.642	16.3	light rain	G. Miyanohaza.
Kioto	29.61	752.1	29.78	756.5	73.8	23.2	77	ne.	2.9	1.2			10 s			0.077	2.0	cloudy	M. Tojima.
Kochi	29.78	756.4	29.80	756.9	69.7	20.9	86	nw.	7.9	3.5			10 n			0.21	5.4	raining	K. Kusunose.
Miasaka	29.74	755.3	29.76	756.0	71.8	22.1	95	nw.			2		10 n		ese.	1.984	50.4	raining	K. Masusaki.
Miyako	29.62	752.4	29.73	755.2	58.8	14.9	95	nne.	0.2	0.1		0	9 s			0.205	5.2	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.51	749.5	29.71	754.6	65.9	18.8	97	n.	1.8	0.8			10 s			0.960	24.4		S. Takehayashi.
Niigata	29.78	756.4	29.81	757.2	64.3	17.9	85	sw.	10.1	4.5			10 s		sw.	0	0	cloudy	M. Morita.
Nobiru	29.73	755.2	29.75	755.6	64.8	18.2	98	calm	0	0		0	9 s			0	0	cloudy	H. Midzushima.
Numazu	29.70	754.4	29.73	755.2	74.1	23.4	79	ese.			1	4 c; cs	6 ks			0	0	cloudy	R. Kaneda.
Osaka	29.76	756.0	29.78	756.4	73.9	23.3	75	sw.	2.0	0.9			10 s			0.070	1.8	cloudy	H. Omura.
Sakai	29.82	757.5	29.83	757.7	69.3	20.7	88	nne.			2		10 n		ene.	0.035	0.9	raining	K. Yamawchi.
Tokei Obs'y, Yeddo	29.68	753.9	29.75	755.7	71.3	21.8	82	ssw.	3.5	1.5			10s;ks		w.	0	0	cloudy	The Staff.
Wakayama	29.73	755.1	29.78	756.4	73.1	22.8	87	calm	0	0			10 ck		w.	0.037	0.9	cloudy	K. Sakai.
Shimonoseki	29.64	752.9	29.79	756.6	65.4	18.6	92	calm			0		10 n			0.287	7.3	raining	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	73.0	22.8	67	ese.	20.0	8.9		0	6ks;kn		ese.	0.57	14.5	fair	The Staff.
MEXICAN.																			
Guanajuato	23.70	602.1	29.92	760.1	61.7	16.5	92	sw.	inap.	inap.		4 ck	7 kn	sw.	sw.	0.893	22.7	cloudy	Prof. Vicente Fernandez
Leon	24.33	618.0	29.92	760.0	63.9	17.7	92	wnw.	0.9	0.4			10 ck;n		s.	0.435	11.0	covered	Prof. M. Leal.
Mazatlan	29.67	753.4	29.92	760.1	79.0	26.1	82	e.	5.3	2.3			9 n		e.	inap.	inap.	raining	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					79	26.1	76	se.	12.2	5.5		3 ck	0	se.		0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.99	761.8	29.99	761.8	66.9	19.4		s.			4					0.110	2.8		
Groningen	29.97	761.3	30.03	762.7	65.1	18.4		sw.			5					0.035	0.9		
Helder	30.00	762.1	30.00	762.1	62.2	16.8		sw.			4					0	0		
Hellevoetsluis	30.02	762.5	30.02	762.5	66.9	19.4	61	sw.			3					0	0		
Utrecht	30.00	762.1	30.05	763.3	67.5	19.7	62	ssw.			3		5			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.92	760.0			81.0	27.2	78	nne.	0	0			8			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.82	757.3	29.88	758.9	61.2	16.2	67	ssw.	13	6			10			0.929	23.6	raining	
Brono	29.85	758.2	29.89	759.2	81.3	27.4	43	calm			0		0			0	0		
Christiania	29.84	757.9	29.98	761.5	65.7	18.7	58	s.	9	4			3			0.421	10.7	raining	
Gjesvær	30.06	763.5	30.08	764.1	51.1	10.6		calm			0		8						
Lodingen	29.89	759.3	29.94	760.5	69.4	20.8	60	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores	29.87	758.8	30.03	762.8	68.4	20.2	87	nw.	1.8	0.8			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.08	738.6	30.05	763.3	73.8	23.2	43	ssw.	4.3	1.9			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.13	765.4	30.22	767.6	68.5	20.3	68	se.	8.1	3.6			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.81	757.1	30.14	765.5	67.8	19.9	50	nw.	12.5	5.6			0			0	0		The Staff.
Ponta Delgada, Azores	29.99	761.7	30.06	763.5	68.7	20.4	91	sw.	3.8	1.7			10			0.087	2.2	light rain	
Saint Paul de Loando	29.80	756.9	30.00	762.1	73.2	22.9	89	nw.			1		0			0	0		
San Salvador	28.15	714.9	29.96	761.0	83.7	28.7	41	ese.			1		2			0	0		
Serra da Estrella	25.39	644.9	30.01	762.2	61.0	16.1	55	ese.	7.4	3.3			1			0	0		
RUSSIAN.																			
Akmolinski	28.50	723.9	29.54	750.3	80.4	26.9	56	ne.	9	4		1 c	0			0	0		Major K. Lasarew.
Archangel	29.99	761.8	30.01	762.3	68.0	20.0	43	nw.	13	6			9 ks			0	0		Capt. Sseliwerstow
Ashurada	29.86	758.5	29.77	756.1	78.4	25.8	75	wsw.	25	11			10 kn			0.012	0.3		
Astrakhan	29.93	760.2	29.85	758.1	73.6	23.1	28	nw.	13	6		0	1 k			0	0		Capt. Wisganow.
Baku	30.08?	763.9?	30.03?	762.7?	73.8	23.2	70	nnw.	31	14		0	4 k			0	0		
Barnaul	29.02	737.2	29.51	749.6	55.2	12.9	88	nw.	9	4			10			0.008	0.2		Meteorological Obs'y
Bielosersk	29.59	751.5	30.04	762.9	72.3	22.4	53	wnw.	9	4		4 cs	0			0	0		
Dorpat	29.97	761.2	30.20	767.1	73.9	23.3	40	w.	4	2		0	0			0	0		Observatory.
Ekaterinburg	28.81	731.8	29.74	755.5	62.4	16.9	42	calm	0	0		c	5 ks			0	0		Meteorological Obs'y
Elissawetgrad	29.65	753.1	30.09	764.2	68.7	20.4	42	ene.	9	4		0	7 ks			0	0		
Irkutsk	27.87	707.8	29.40	746.8	72.5	22.5	56	sse.			2		8			0	0		
Kasalinsk																			
Kasan	29.49	749.0	29.74	755.5	73.8	23.2	31	ne.	13	6		0	8 k			0	0		Observatory.
Kem	30.00	762.0	30.05	763.3	70.7	21.5	54	w.	13	6		0	5 ks			0	0		
Kertch	29.93	760.3	29.96	760.9	68.2	20.1	53	ne.	7	3		0	7 k			0	0		Lagorio & Sastyrea.
Kieff	29.48	748.7	30.09	764.3	70.2	21.2	41	ne.	4	2		0	5 k;ks			0	0		Observatory.
Koslov	29.45	747.9	29.97	761.2	68.2	20.1	53	nne.	13	6		0	5 k			0	0	hazy	
Liban	30.14	765.5	30.16	766.1	66.6	19.2	59	sw.	7	3			3			0	0		E. Quaas.
Lugan	29.72	755.0	29.91	759.6	72.0	22.2	30	nne.	9	4			5			0	0		Meteorological Obs'y.
Moscow	29.56	750.7	30.00	762.1	75.0	23.9	39	ene.	12.3	5.5		0	4 ks			0	0		Meteorological Obs'y
Nikolaiev	29.95	760.6	30.02	762.5	73.6	23.1	41	ene.	9	4		2 ck	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.50	749.3	29.59	751.5	71.0	16.1	91	calm	0	0			5			0.071	1.8		Iwanow.
Pekin, China	29.44	747.7	29.58	751.3	66.8	24.9	45	ne.	10.1	4.5		0	2 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.21	741.8	29.52	749.8	174.4	40.2	24	calm	0	0			0			0	0		
Petrozavodsk	29.85	758.1	30.04	762.9	75.6	24.2	33	nne.	9	4		0	5 ks			0	0		Dr. Bergmann.
Pinsk	29.68	753.9	30.17	766.2	72.0	22.2	46	calm	0	0		0	2 k			0	0		
Poti	29.85	758.1	29.88	758.9	5.0	23.9	84	wsw.	4	2		0	5 ks			0.417	10.6		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
St. Petersburg	30.15	765.8	30.17	766.4	69.3	20.7	39	wnw.	16	7		0	0			0	0		Central Physical Obs'y.
Samarkand	27.22	691.5	29.46	748.3	97.3	36.3	31	calm	0	0		0	0			0	0		
Semipalatinsk	28.96	735.5	29.58	751.4	69.3	20.7	52	wnw.	7	3			0			0	0		Major Lasarew
Sevastopol	29.71	754.5	29.93	760.2	63.0	17.2	86	sse.	7	3			10 n			1.886	47.9		
Starol Bykhov	29.76	755.9	30.21	767.2	73.8	23.2	41	ne.	7	3		cs	5 k			0	0	light clouds	
Tashkend	27.97	710.3	29.47	748.4	98.8	37.1	31	calm	0	0		0	0			0	0		Terch, A. M.
Tiflis	28.43	722.0	29.78	756.5	72.3	22.4	63	nnw.	7	3			10 n					raining	Physical Observatory.
Vernoe	27.16	689.8	29.47	748.4	85.6	29.8	43	calm	0	0		0	0			0.020	0.5		
Viatka	29.16	740.6	29.76	755.9	73.8	23.2	30	n	7	3			5			0	0		
Warsaw	29.71	754.5	30.11	764.9	72.0	22.2	47	s.	9	4		0	5 k			0	0		Astronomical Obs'y.
Veniseisk	29.19	741.4	29.47	748.5	52.7	11.5	83	w.	4	2			10			0	0		M. O. Marks.
Scottish.																			
Monach Lt			29.31	744.5	58	14.4	94	sw.			6		10			0.3	8.	raining	J. Youngclauss
North Unst			29.72	754.9				se.			6		7						Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.00	762.0	30.10	764.6	74.8	23.8	68	s.	1.6	0.7		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.98	761.6	30.04	763.1	78.6	25.9	52	nw.	2.2	1.0		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.12	688.9	29.96	761.0	75.6	24.2	41	sw	3.8	1.7		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.3	29.97	761.2	81.3	27.4	24	w.	12.1	5.4		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.92	760.0	30.08	764.0	82.2	27.9	59	ene.	4.7	2.1		0	3			0	0		Olayo Diaz, Director.
Oviedo	29.28	743.6	30.04	762.9	64.4	18.0	70	n.	8.5	3.8		1 s	2 k	n.	n.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.15	740 3	30.02	762.5	68.0	20.0	57	sw.	9.8	4.4			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.02	762.4	30.08	764.1	80.2	26.8	81	se.	3.4	1.5		1 c	0	ene.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.8	29.89	759.2	80.0	26.7	87	e.	6.6	3.0		2 c	7 kn			0	0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.6	30.12	765.1	72.9	22.7	64	w.	9.6	4.3		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.4	30.11	764.7	81.7	27.6	89	se.	4.7	2.1		2 cs	2 k	se.	se.	0.118	3.0	clear	Enrique Gadea, Chf Eng'r
Swedish.																			
Haparanda	30.09	764.2	30.13	765.2	62.6	17.0	68	s.			2		0			0	0		
Umea	30.08	763.9	30.13	765.2	69.4	20.8	49	sw.			4		0			0	0		
Hernosand	30.06	763.5	30.11	764.8	67.6	19.8	52	s.			4		0			0	0		
Stockholm	29.96	760.9	30.13	765.4	71.1	21.7	57	s.			6		5			0	0		
Wisby	29.98	761.5	30.04	763.0	72.0	22.2	56	s.			6		5			0	0		
Sub-series.																			
Upsala	29.98	761.4	30.06	763.6	70.9	21 6	54	sse.	11.9	5.3			9		s.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.69	728.8	30.08	764.1	66.6	19.2	62	n.			3		5			0.087	2.2	cloudy	The Observatory.
Turkish.																			
Constantinople			29.91	759.7	71.1	21.7	69	n.	6	2.5			8		ne.	0.118	3.0		The Observatory.
Valona			30.11	764.7	79.2	26.2		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	756.9	83.1	28.4	53	sw.			2		1 k		s; sw	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.76	679.7			60	15.6	87	w.			2							rainy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.97	761.2	30.05	763.3	73.5	23.1	68	se.	8	3.6			10 ks		s.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.32	744.7	29.97	761.2	58	14.4	93	calm	0	0			fg.			0.58	14.7	light fog	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	635.6	29.81	757.2	54	12.2	55	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.05	687.1	29.84	757.9	70	21.1	43	sw.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.82	732.0	29.97	761.2	64.5	18.1	75	nw.	7	3.1		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	29.89	759.2	29.90	759.4	71	21.7	94	se.	22	9.8			10 s			inap.	inap.	cloudy	Jas. M. Watson.
Augusta, Georgia	29.74	755.4	29.93	760.2	72.0	22.2	76	w.	5	2.2		1 k	0	w.		0	0	clear	John Healy.
Baltimore, Maryland	29.83	757.7	29.88	758.9	70	21.1	90	nw.	5	2.2			10 n			2.00	50.8	light rain	Geo. W. Felger.
Barnegat City, New Jersey	29.92	760.0	29.94	760.5	68.0	20.0	97	e.	23	10.3			10 n			inap.	inap.	light rain	G. A. Hill.
Behring Id., Behring Sea	29.53	750.0	29.55	750.6	41.0	5.0	92	sw.	15	6.7			10 n		sw.	0.22	5.6	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.46	722.9	30.00	762.0	66.5	19.2	87	se.	7	3.1		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.11	688.6	29.88	758.9	73	22.8	44	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana																			T. Gibson.
Bismarck, Dakota	28.23	717.0	29.99	761.7	72	22.2	71	se.	8	3.6		5 c	0			0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.06	763.5	30.09	764.3	63	17.2	93	e.	16	7.2			10 s		e.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.20	690.9	29.98	761.5	59	15.0		nw.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.97	761.2	30 12	765.0	62.0	16.7	93	se.	2	0.9			10 s			inap.	inap.	cloudy	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.98	761.5	72.0	22.2	100	se.	22	9.8			10 n			0.05	1.3	heavy rain	E. C. Imlay.
Buffalo, New York	29.17	740.9	29.91	759 7	67.3	19.6	82	se.	2	0.9		1 k	9 ks	se.	se.	0.42	10.7	cloudy	W. Finn.
Buford, Fort, Dakota	27.98	710.7	29.94	760.5	75	23.9	82	e.	7	3.1		5 c	0			0	0	fair	A. Schneider.
Burlington, Vermont																			D. N. Farnell.
Cairo, Illinois	29.64	752.8	30.03	762.7	69.7	20.9	80	n.	3	1.3		8 ck	0	nw.		0	0	cloudy	W. H. Ray.
Cape Henry, Virginia	29.78	756.4	29.80	756.9	68.0	20.0	100	se.	28	12.5			10 n			0.96	24.4	heavy rain	A. K. Alderson.
Cape May, New Jersey	29.84	757.9	29.87	758.7	72.0	22.2	90	e.	16	7.2			10 s		s.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.34	745.2	30.02	762.5	54	12.2	86	n.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.96	761.0	29.98	761.5	80	26.7	82	sw.	12	5.4		1 c	4 k		w.	0.64	16.3	fair	G. W. Davis.
Charleston, S. Carolina	29.81	757.7	29.88	758.9	80	26.7	79	calm	0	0		0	hz.			0.03	0.8	clear	J. H. Smith.
Charlotte, N. Carolina	29.06	738.1	29.90	759.4	72.0	22.2	73	nw.	2	0.9		0	fg.			0.72	18.3	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.00	762.0	65.5	18.6	75	nw.	2	0.9		1 k	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.21	614.9	29.95	760.7	53.8	12.1	80	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.22	742.2	29.91	759.7	57.9	14.4	80	nw.	4	1.8			10 s			inap.	inap.	cloudy	John Laurens.
Chincoteague, Virginia	29.82	757.4	29.84	757.9	72	22.2	100	se.	11	4.9			10s; fg		s.	0.10	2.5	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.27	743.4	29.92	760.0	64.0	17.8	84	w.	7.	3.1			10 ks		w.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.16	740.7	29.89	759.2	63.2	17.3	83	n.	1	0.4		5 cs	5 n		s.	0.01	0.3	light rain	J. B. Newlin.
Coleman City, Texas	28.21	716.5	29.96	761.0	71	21.7	82	sw.	2	0.9		5 ck	0			0	0	fair	T. J. Kenan.
Columbus, Ohio	29.05	737.9	29.89	759.2	60	15.6	81	sw.	4	1.8			10 s		sw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.09	713.5	29.96	761.0	73.0	22.8	84	calm	0	0			10 s			0.11	2.8	cloudy	J. McGlone.
Davenport, Iowa	29.30	744.2	29.94	760.5	63	17.2	78	nw.	4	1.8		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.85	758.2	62	16.7	84	ne.	4	1.8		0	7 ks		sw.	0.88	22.4	fair	J. Williams.
Dayton, Washington T'y	28.30	718.8	30.04	763.0	57	13.9	67	sw.	3	1.3		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.46	646.7	29.90	759.4	59	15.0	54	ne.	2	0.9		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del	29.86	758.4	29.88	758.9	68	20.0	100	e.	14	6.3			10s; fg		e.	0.02	0.5	cloudy	T. S. Townsend.
Denver, Colorado	24.88	631.9	29.92	760.0	63.0	17.2	65	s.	1	0.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.05	763.3	60	15.6	81	ne.	2	0.9		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.19	741.4	29.88	758.9	64.0	17.8	90	se.	3	1.3			10 s			0.01	0.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.46	697.5	29.96	761.0	67	19.4	90	s.	8	3.6		3 cs	0	sw.		0.02	0.5	clear	D. J. Carr.
Dubuque, Iowa	29.30	744.2	29.98	761.5	60.7	15.9	67	nw.	4	1.8		1 cs	0	n.		0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.35	745.5	30.08	764.0	60	15.6	65	calm	0	0		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho																			H. R. Boynton.
Eastport, Maine	30.02	762.5	30.09	764.3	61.0	16.1	84	n.	5	2.2			10s; hz			0.03	0.8	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.28	692.9	29.94	760.5	64	17.8	73	nw.	8	3.6			10 n		nw.	0.30	7.6	light rain	W. J. Cundall.
El Paso, Texas	26.27	667.2	29.86	758.4	71.0	21.7	37	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.19	741.4	29.91	759.7	68	20.0	84	calm	0	0		8 cs	0	s.		0.17	4.3	cloudy	C. A. Shaw.
Escanaba, Michigan	29.33	745.0	29.98	761.5	58.0	14.4	70	n.	14	6.3		1 ck	3 s	sw.	n.	0.01	0.3	fair	George Heathcote.
Galveston, Texas	29.96	761.0	30.00	762.0	80	26.7	88	sw.	2	0.9		2 cs	7 ks		sw.	0.02	0.5	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.21	741.9	29.86	758.4	60.0	15.6	96	n.	2	0.9			10 n			0.72	18.3	light rain	J. E. Mueller.
Grant, Fort, Arizona					74.7	23.7	28	s.	1	0.4		0	1 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.72	754.9	29.74	755.4	77	25.0	90	w.	30	13.4		6 k	3 ks	sw.	w.	2.61	66.3	cloudy	R. M. Crawford.
Helena, Montana	25.83	656.1	29.95	760.7	72	22.2	64	calm	0	0		0	0			0	0	clear	H. W. Dodge.

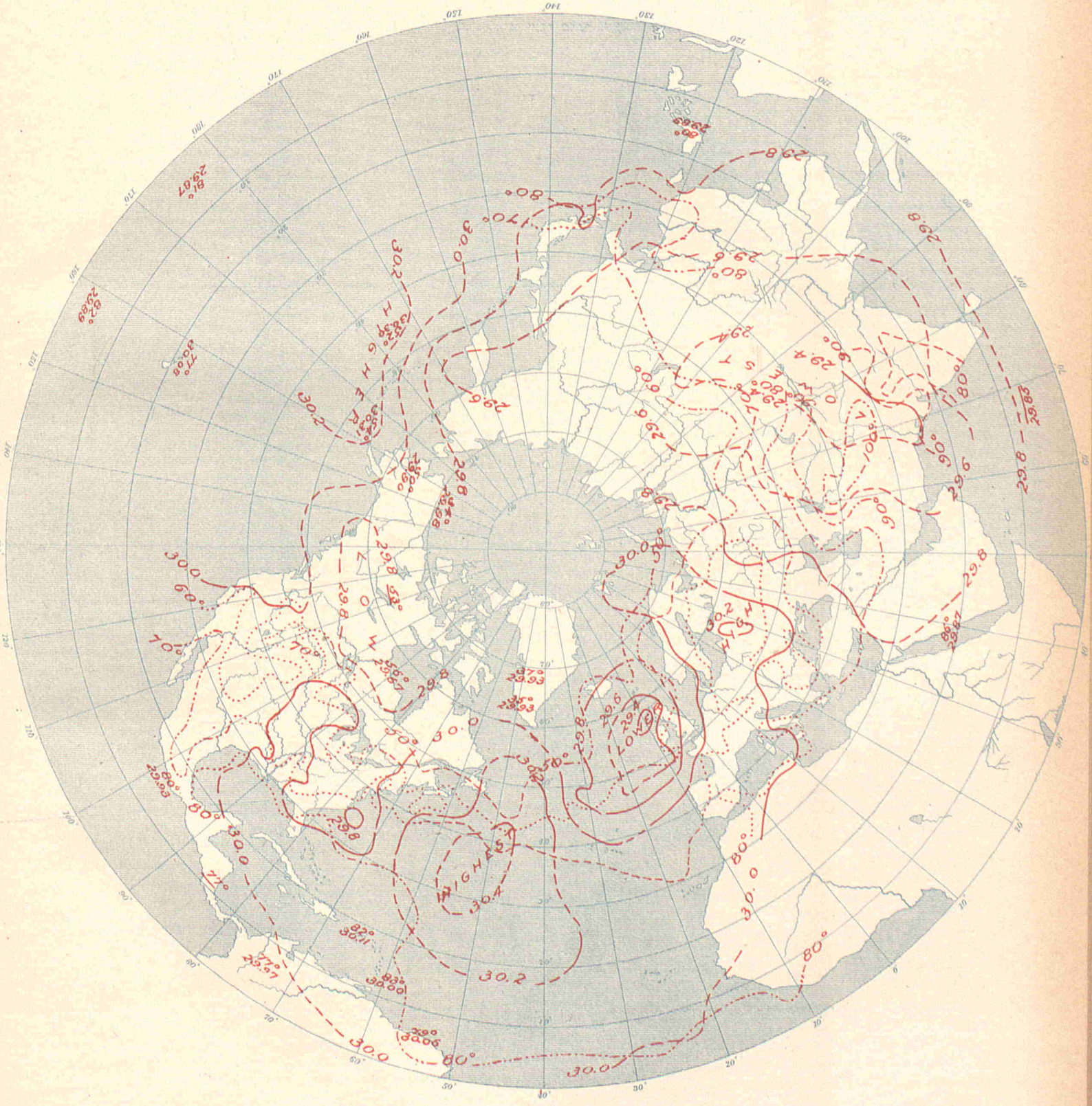
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.71	729.2	30.05	763.3	59.9	15.5	78	se.	6	2.7		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.12	739.6	29.90	759.4	59.8	15.4	75	nw.	3	1.3			10 s		nw.	0.13	3.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.94	760.5	29.96	761.0	80.2	26.8	86	sw.	8	3.6		2 c	2 ks	nw.		0	0	fair	I. A. Reed.
Jacksonville Florida	29.93	760.2	29.97	761.2	82.0	27.8	80	w.	5	2.2		3 cs	0			0.03	0.8	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.35	745.5	29.99	761.7	66.0	18.9	73	nw.	2	0.9		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.05	763.3	30.07	763.8	85.5	29.7	67	sw.	6	2.7		4 cs	hz.			0	0	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.76	755.9	29.78	756.4	73.5	23.1	97	se.	20	8.9			10 ks		s.	0.92	23.4	cloudy	H. Mc P. Baldwin
Knoxville, Tennessee	28.97	735.8	29.98	761.6	61.8	16.6	88	w.	5	2.2			10 s		w.	0.09	2.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.25	742.9	30.01	762.2	63	17.2	56	n.	4	1.8		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.21	741.9	30.08	764.0	64	17.8	78	n.	1	0.4		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.16	740.7	29.98	761.5	66.5	19.2	51	e.	4	1.8		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	67	19.4	90	calm	0	0		4 c	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.45	748.0	29.84	757.9	63	17.2	73	ne.	1	0.4		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.38	746.2	29.93	760.2	65	18.3	78	w.	7	3.1			10 s		nw.	inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.18	741.2	29.85	758.2	70	21.1	78	ne.	2	0.9		0	5 k		ne.	0.71	18.0	fair	Lou's Duane.
Mackinaw City, Michigan	29.30	744.2	29.94	760.5	56.0	13.3	96	n.	10	4.5			10n;fg			0.16	4.1	light rain	D. B. Notson.
Macon, Fort, North Carolina	29.79	756.7	29.80	756.9	72.0	22.2	90	sw.	16	7.2			10 s		sw.	1.95	49.5	cloudy	William Daly.
Maginnis, Fort, Montana	25.59	650.0	29.92	760.0	70	21.1	34	se.	8	3.6		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.32	744.7	30.04	763.0	62	16.7	56	nw.	8	3.6		1 c	0	nw.		0	0	clear	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.02	762.5	71	21.7	76	calm	0	0		0	5 s		nw.	0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.18	741.2	29.92	760.0	57	13.9	80	n.	14	6.3			10 s		n.	0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.98	761.5	30.02	762.5	73.0	23.1	75	n.	4	1.8		1 c	0	sw.		0	0	clear	C. A. Read.
Montgomery, Alabama	29.72	754.9	29.95	760.7	68.4	20.2	78	nw.	3	1.3		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.07	738.4	30.04	763.0	57	13.9	74	s.	8	3.6		0	0			0	0	clear	H. White.
Mt. Washington, N. H.	24.03	610.4	30.15	765.8	53.6	12.0	79	sw.	10	4.5		2 c	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.42	747.3	29.98	761.5	67.0	19.4	78	w.	4	1.8		3 ck	0	w.		inap.	inap.	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.95	760.7	30.06	763.5	62.5	16.9	93	e.	14	6.3			10s;fg		e.	0.02	0.5	cloudy	J. H. Sherman.
New London, Connecticut	30.05	763.3	30.10	764.5	64	17.8	100	e	14	6.3			10s;fg		e.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.01	762.2	78.5	25.8	62	e.	6	2.7		2 cs	5 ks	w.	ne.	0	0	fair	M. Herman.
New York, New York	29.83	757.7	30.00	762.0	66	18.9	100	ne.	20	8.9			10s;fg			0.15	3.8	cloudy	G. E. Franklin.
Norfolk, Virginia	29.76	755.9	29.79	756.7	71.0	21.7	100	e.	13	5.8			10 n		se.	1.22	31.0	light rain	Wm. Davis.
North Platte, Nebraska	27.19	690.6	29.99	761.7	67.6	19.8	84	se.	9	4.0		0	4 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.09	764.3	30.13	765.3	47.0	8.3	77	n.	1	0.4		0	0			inap.	inap.	clear	J. Dascomb.
Omaha, Nebraska	28.95	735.3	30.09	764.3	63.0	17.2	84	calm	0	0		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.96	761.0	29.98	761.5	33.5	0.8	100	se.	3	1.3		5 k	3s;fg	sse.		0.07	1.8	cloudy	P. H. Ray.
Oswego, New York	29.64	752.8	29.96	761.0	67.5	19.7	91	se.	6	2.7			10 n		se.	0.93	23.6	light rain	J. G. Linsley.
Palestine, Texas	29.46	748.3	30.00	762.0	73.0	22.8	82	calm	0	0		50;ck	0			0	0	fair	J. W. Byram.
Pensacola, Florida	29.97	761.2	30.00	762.0	76.8	24.9	61	n.	4	1.8		0	1 k			0.15	3.8	clear	M. McGauran.
Philadelphia, Pa	29.82	757.4	29.92	760.0	73	22.8	100	e.	7	3.1			10 n		e.	0.22	5.6	light rain	T. F. Townsend.
Pike's Peak, Colorado	18.17	461.5	29.99	761.7	37	2.8	79	ne.	8	3.6		0	hz.			0	0	clear	H. Hall.
Ploche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.09	738.9	29.88	758.9	66.5	19.2	84	ne.	1	0.4			10 n		sw.	0.02	0.5	light rain	W. A. Reid.
Poplar River, Montana	27.81	706.4	29.91	759.7				sw.			4	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.19	741.4	29.86	758.4	58.0	14.4	86	s.	2	0.9		0	0			inap.	inap.	clear	M. H. Perry
Portland, Maine	30.06	763.5	30.12	765.0	60.0	15.6	87	n.	4	1.8			fg.			0	0	dense fog	W. W. Eichelberger
Portland, Oregon	29.96	761.0	30.03	762.7	58.0	14.4	75	s.	3	1.3			10 s		s.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					75	23.9	85	sw.	21	9.4			10 s		w.	1.71	43.4	cloudy	F. P. Chaffee.
Prescott, Arizona	24.82	630.4	29.84	757.9	59.0	15.0	38	sw.	3	1.3		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	30.10	764.5	30.13	765.3	63.5	17.5	84	e.	5	2.2		0	fg.		e.	0	0	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.62	752.3	29.97	761.2	65	18.3	48	e.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.50	749.3	30.04	763.0	50.8	10.4	80	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.87	758.7	29.94	760.5	60.0	15.6	78	se.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.44	747.8	30.03	762.7	64.2	17.9	77	w.	10	4.5		1 cs	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.87	758.7	29.90	759.4	50	10.0	93	e.	16	7.2			10 s			0.06	1.5	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.23	742.4	30.07	763.8	62.0	16.7	78	calm	0	0		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.12	739.6	29.97	761.2	61	16.1	84	s.	8	3.6		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.61	650.5	29.83	757.7	70	21.1	27	s.	3	1.3		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.71	754.6	29.78	756.4	63.7	17.6	88	nw.	2	0.9		0	0			0	0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	29.96	761.0	29.99	761.7	67.0	19.4	100	e.	34	15.2			fg.			0.07	1.8	dense fog	B. A. Blundon.
Sanford, Florida	29.94	760.5			82	27.8	82	sw.	6	2.7		6 k	0	w.		0.38	9.7	fair	J. B. Marbury.
San Francisco, California	29.92	760.0	29.99	761.7	53	11.7	93	w.	14	6.3		0	fg.		w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.85	758.2	29.94	760.5	78	25.6	68	w.	8	3.6		0	0			0.32	8.1	clear	H. W. Ford.
Shaw, Fort, Montana	29.30	668.0	29.86	758.4	54	12.2	57	w.	8	3.6		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.75	755.6	29.98	761.5	70.5	21.4	80	w.	3	1.3		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.79	731.3	29.99	761.7	69.5	20.8	89	n.	2	0.9		0	7 ks		n.	0	0	fair	W. M. Mattingly.
Sitka, Alaska	29.73	755.1	29.79	756.7	47.1	8.4	68	e.	4	1.8		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.57	751.1	30.03	762.7	65.0	18.3	84	ne.	2	0.9		10 cs	0	w.		0	0	cloudy	J. B. Campbell.
Smithville North Carolina	29.82	757.4	29.80	758.4	68.0	20.0	93	nw.	6	2.7		0	7 k		w.	1.61	40.9	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.09	764.3	60	15.6	78	s.	11	4.9		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.32	744.7	29.99	761.7	62.5	16.9	84	w.	11	4.9		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.05	687.1	29.97	761.2	65	18.3	90	calm	0	0		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona					71	21.7	59	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.18	741.2	29.86	758.4	62	16.7	87	s.	1	0.4			10n;fg			0.06	1.5	light rain	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	30.28	769.1	30.31	769.9	54	12.2	80	sw.	16	7.2			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					69	20.6	26	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.79	756.7	30.04	763.0	70.0	21.1	81	ne.	3	1.3		5 k	0		ne.	0	0	fair	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.78	756.4	29.89	759.2	68.1	20.1	94	calm	0	0			10 n			1.02	25.9	light rain	B. M. Purssell.
West Las Animas, Colorado	26.14	663.9	29.91	759.7	62.9	17.2	73	e.	1	0.4		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.82	757.4	29.87	758.7	70.5	21.4	90	nw.	6	2.7			10 s		w	1.31	33.3	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.82	732.0	30.10	764.5	65	18.3	78	e	3	1.3		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.56	750.8	29.70	754.4	78.0	25.6	82	w.	1	0.4		1 c	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.09	764.3	80	26.7	72	calm	0	0		5 cs	0			0	0	fair	Robert Johnston.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	78	se.			2	4 c	5 k	e.		0.230	5.8	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.41	747.0	29.97	761.2	77	25.0	89	calm			0		10 ks		n.	0.38	9.7	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	91	ne.					10 ks		ne.	0.25	0.3	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos
York Factory, B. A.	29.61	752.1	29.67	753.6	56.0	13.3	94	w	6	2.7		4 k	2 s	w.	w.	0.12	3.0	cloudy	Portesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 45° 20′ E. 12° 22′	30.05	763.3	78	25.6	73	calm			0		10							overcast.
H. M. Dockyard, Bermuda, Atlantic	30.22	767.6	77	25.0	88	ese.			4		7	ese.						d. clouds.
H. M. S. Gannet, N. 50° 20′, W. 4° 09′	29.79	756.7	56	13.3	94	sse.			5–6		10							raining.
H. M. S. Iris, Port Said, Egypt	29.86	758 4	77	25.0	82	wnw			2		0							blue sky.
H. M. S. Monarch, Fiume, Austria	30.00	762.0	75	23.9		ssw.			1		3							d. clouds.
H. M. S. Minotaur, N. 42° 45′, W. 10° 04′	30.06	763.5	65	18.3	78	s.			4		0					1	wnw.	blue sky.
H. M. S. Opal, N. 4° 23′, W. 8° 46′	30.08	764.0	81	27.2	74	ese.			2		5	ese.				2	ese.	d. clouds.
H. M. S. Tyne, N. 5° 39′, W. 10° 45′	30.09	764.3	77	25.0	86	s.			2		5	sse.				2	s.	d. clouds.
H. M. S. Tenedos, White Bear Bay, N. F	30.20	767.1	58	14.4	94	sse.			2		8	se.						raining.
U. S. Navy Yard, Portsmouth, N.H.*	30.10	764.5	63	17.2	94	calm	0	0			10		sw.	0	0			cloudy.
U. S. S. Constellation, N. 37° 28′, W. 74° 49′*	29.87	758.7	73	22.8	95	ese.			5		10					mod.	se.	rain squalls
U. S. S. Dale, N. 37° 56′, W. 74° 20′	29.91	759.7	73	22.8	95	e.			5		8		e.			mod.	e.	fair.
U. S. S. Lancaster, Stockholm, Sweden	30.16	766.1	72	22.2	62	se.			3		5		calm			sm'h		fair.
U. S. S. Nipsic, N. 36° 05′, W. 47° 10′*	30.41	772.4	76	24.4	86	nne.			2		2		nnw.			sm'h		fair.
U. S. S. Portsmouth, Newport, R.I.	30.14	765.5	64	17.8	100	se.			2		10							cloudy.
U. S. S. Powhatan, N. 33° 03′, W. 76° 40′	29.85	758.2	80	26.7	91	wnw.			3		8		nw.			sm'h		fair
U. S. S. Saratoga, Newport, R. I.	30.12	765 0	65	18.3	94	ese.			2		10		ese.	light	light	sm'h		overcast.
U. S. S. Vandalia, N. 30° 20′, W. 74° 08′	30.00	762.0	79	26.1	86	sw.			5		10		sw.					cloudy.
U. S. S. Yantic, St. Johns, N.F	30.32	770.1	54	12.2	87	wsw.			1		10							foggy.
Cottica, N. 32° 01′, W. 54° 19′	30.52	775 2	77.5	25.3	80	e.			3		2							blue sky.
May Hulse, N. 19° 20′, W. 36° 00′	30.19	766.8	77	25.0	77	ne.			5		10							overcast.
St. Kilda, N. 18° 20°, W. 60° 10′	30.00	762.0	79.8	26.6	73	e.			4		4							showery
H. P. M. S. Rio Lima, N. 23° 32′, W. 18° 38′	30.17	766.2	72.5	22.5	87	ne.			2		2		ne.			2		d. clouds
S. S. Illinois, Liverpool, Eng	29.66	753.4	57	13.9		sw.			2		10		s.					overcast.
S. S. Lord Clive, N. 51° 13′, W. 10° 50′						ene.			4		10			6 h'r	6 h'r	sm'h		misty.
S. S. Lord Gough, N. 50° 18′, W. 31° 23′	29.79	756.7	52	11.1		n.			5		8		n.			mod.	ne.	squally.
S. S. Ohio, N. 41° 19′, W. 47° 10′ †	30.36	771.1	66	18.9		w.			1		10		w.	1 h'r	1 h'r	mod.	w.	cloudy.
S. S. Pennsylvania, N. 46° 04′, W. 35° 29′†	30.13	765.3	61	16.1		nne.			4		10			o	o	mod.	n.	overcast.
S. S. Scandinavian, N. 46° 27′ W. 48° 34′	30.34	770.6	46	7.8		ssw.			1		10		ssw.			mod.	nne.	showery.
S. S. Greecian, N. 55° 18′, W. 18° 38′			55	12.8	87	n.			2		3		n.	1 h'r	1 h'r	sm'h		clear.
S. S. Nova Scotian, N. 37° 37′, W. 73° 57′	29.95	760.7	71	21.7		s.			3		10		se.			sli't	se.	cloudy.
S. S. Polynesian, Montreal, Canada	30.04	763.0	82	27.8		sw.			2		8		w.	o	o	sm'h	s.	cloudy.
S. S. Prussian, N. 42° 20′, W. 70° 55′	30.03	762.7	64	17.8							2			o	o			
S. S. Manitoban, Quebec, Canada			69	20.6	90	ne.			1		7		ne.	o	o			
S. S. Sardinian, N. 48° 30′, W. 48° 00′	30.31	769.9	44	6.7		wsw.			1		9		nnw.	o	o	long	n.	cloudy.
S. S. Jason, N. 37° 25′, W. 74° 06′†	30.12	765.0	68.9	20.5		ene.			4		6 s					5	ese.	cloudy.
S. S. Alvo, Kingston, Jamaica. W. I *	30.03	762.7	79	26.1		s.			2		7		calm	o	o			fine.
S. S. Andes, N. 36° 10′, W. 74° 07′*†	29.94	760.5				ese.			4		3		se.	8 h'r	8 h'r	mod.	se.	
S. S. Alene, Port Limon, Porto Rica, W I†	30.00	762.0				var.			1–3		8		calm	sh'rs	sh'rs	long	e.	cloudy.
S. S. Dorian, N. 43° 50′, E. 8° 00′	30.11	764.8	71	21.7		calm			0		4			o	o	sm'h		fine.
S. S. Furnesia, New York, N. Y †	29.96	761.0	72	22.2	91	e.			3		10			8 h'r	8 h'r			light rain.
S. S. Jerome, N. 28° 09′, W. 58° 13′			77	25.0	95	ese.			5		3		ese.	o	o	r'gh	se.	clear.
S. S. Landaff City, N. 50° 52′, W. 23° 14′†	29.67	753.6	55	12.8		ne.			6		9		ne.	5 h'r	5 h'r	mod.	ne.	cloudy.
S. S. Pavonia, Mersey river, Eng	29.70	754.4	62	16.7	88	s.			4		9		s.	3 h'r	3 h'r	sm'h		squally.
S. S. Scythia, N. 49° 08′, W. 26° 13′	29.64	752.8	54	12.2	100	n.			5		10		n.	7 h'r	7 h'r	mod.	ne.	raining.
S. S. France, N. 47° 03′, W. 29° 04′†	29.79	756.7	59.0	15.0		n.			5		9		nw.	rain	rain	h'vy	nw.	threatening.
S. S. Abyssinia, N. 49° 38′, W. 32° 43′	29.86	758 4	57	13.9	69	n.			6		8		n.	o	o			cloudy.
S. S. Wisconsin, N. 40° 46′, W. 68° 04′			64	17.8		e.			2		4		ese.	o	o	sli't	ese.	fair.
S. S. Bohemia, Hamburg, Germany						se.			1		3		se.	o	o			fair.
S. S. Gellert, N. 46° 45′, W. 37° 00′	30.11	764.8	59	15.0	76	n.			6		10		nnw.	o	o	r'gh	n.	covered.
S. S. Lessing, N. 47° 20′, W. 33° 57′	29.95	760.7	64	17.8		w.			6		4		nw.	2 h'r	2 h'r	cross	nw.	squally.
S. S. Rugia, New York, N.Y	30.00	762.0																
S. S. Silesia, Hamburg, Germany	30.03	762.7	71.0	21.7		sw.			3		6			4 h'r	4 h'r			squally.
S. S. City of Berlin, N. 45° 30′, W. 46° 31′	30.37	771.4	49	9.4	78	calm			0		7		sw.	5 h'r	5 h'r			fine.
S. S. Mentmore, N. 51° 07′, W. 20° 47′*†	29.70	754.4				ene.			3		5		e.			mod.		raining.
S. S. Bulgarian, N. 50° 09′, W. 29° 33′ *	29.93	760.2				n.			6		10		nne.	2 h'r	2 h'r	mod.	n.	overcast.
S. S. Sirius, N. 36° 10′, W. 12° 30′ *	30.11	764.8				calm			0		0			o	o	sli't	nw.	clear.
S. S. City of San Antonio, Amelia Island, Fla*†	29.98	761.5	81	27.2		w.			3		0							clear.
S. S. Colorado, New York, N. Y†	30.02	762.5	65	18.3		e.			2		10		e.	10 h'r	10 h'r			cloudy.
S. S. Chalmette, Algiers, La†	30.14	765.5	77	25.0		nw			1		6			o	o			fair.
S. S. New York, N. 28° 10′ W. 88° 00′*†	30.08	764.0	82	27.8		wsw.			4		7		sw.			mod.	sw.	fair.
S. S. Lone Star, N. 29° 40′, W. 79° 50′ †	30.01	762.2	82	27.8		w.			3		7		wnw.	1 h'r	1 h'r	mod.	w.	fair.
S. S. Alleghany, N. 38° 27′, W. 75° —†	29.86	758.4	74	23.3		e.			5		5		se.	light	light	light	se.	squally.
S. S. Denmark, N. 44° 18′ W. 38° 10′ †	30.25	768.3	64	17.8		nne.			3		5		nne.	o	o	mod.	nne.	fair.
S. S. Egypt, Mersey r'ver, Eng	29.67	753.6	52	11.1		sse.			4		10		sse.	3 h'r	3 h'r			cloudy.
S. S. England, N. 51° 16′, W. 10° 29′	29.52	749.8				se.			5		10		se.	6 h'r	6 h'r	sm'h		raining.
S. S. Erin, London, Eng	29.86	758.4	58	14.4		sw.			6		8		sw.	6 h'r	6 h'r			cloudy.
S. S. Helvetia, N. 40° 53′, W. 50° 38′	30.46	773.7	69	20.6	95	calm			0		10		e.	1 h'r	1 h'r	sm'h		overcast.
S. S. Holland, N. 40° 37′, W. 63° 29′	30.19	766.8	80	26.7		s.			5		8		sw.	5 h'r	5 h'r	mod	s.	cloudy.
S. S. The Queen, N. 41° 55′, W. 45° 46′	30.40	772 1	69	20.6	85	nw.			3		10		nw.	o	o	sm'h	nw.	overcast.
S. S. Braunschweig, N. 41° 30′, W. 47° 12′	30.41	772.4	66.0	18.9	84	ne.			3		9		ne.	3 h'r	3 h'r	mod.	ne.	cloudy.
S. S. Elbe, Bremerhaven, Germany	29.99	761.8	65	18.3	78	w.			3		4			o	o			fair.
S. S. Fulda, N 49° 14′, W 16° 06′	29.50	749.2	63	17.2	89	wsw.			3		5		wsw.	6 h'r	6 h'r	mod.	wsw.	fair.
S. S. Habsburg, N. 40° 22′ W. 50° 56′	30.46	773.7				calm			0		2		ne.	o	o			clear.
S. S. Main, N. 49° 49′. W. 7° 54′	29.57	751.1	57	13.9		sw.			6		8		sw.	8 h'r	8 h'r	r'gh	sw.	cloudy.
S. S. Neckar, N. 40° 59′, W. 55° 00′	30.41	772.4	74.0	23.3	90	sw.			2		2		sw.	o	o	sm'h	sw.	clear.
S. S. Oder, N. 44° 30′, W. 38° 39′	30.23	767.8	62	16.7		nne.			4		4		n.	4 h'r	4 h'r	long	nnw.	fair.
S. S. Ohio, N. 49° 19′, W. 11° 34′	29.59	751.6				sw.			4		7		w.	7 h'r	7 h'r	mod.	sw.	fair.
S. S. Salier, N. 50° 45′, E. 0° 45′*	29.97	761.2	62	16.7	56	sw.			5		5		ssw.	o	o	sm'h	ssw.	fair.
S. S. Weser, N. 46° 35′, W. 35° 08′	30.09	764.3	58	14.4		nw.			6		5		nw.	½ h'r	½ hr	h'vy	nw.	fair.
S. S. City of Augusta, Savannah, Ga						nnw.			4		4		nnw.	o	o			fair.
S. S. Colon, N. 15° 45′ W. 75° 49′ †	30.03	762.7	82	27.8	100	ene.			4		5		ene.	o	o	mod.	s.	fair
S. S. Muriel, N. 36° 48′, W. 72° 00′	29.99	761.7	81	27.2		sse.			4		2		s.	o	o	r'gh	ssw.	clear.
S. S. Rhynland, N. 41° 15′, W. 67° 00′	30.28	769.1	57	13.9	69	ene.			3		7		e.	o	o	long	sse.	fair.
S. S. Pennland, N. 48° 39′, W. 23° 05′.	29.63	752.6	64	17.8	83	nw.			2		9		nw.	5 h'r	5 h'r	high	wnw.	squally.
S. S. Switzerland, N. 49° 50′, W. 9° 46′†	29.55	750.6				w.			4		10		nnw.	9 h'r	9 h'r	mod.	w.	raining.
S. S. Waesland, N. 41° 24′, W. 49° 39′	30.45	773.4	58	14.4		n			3		5		e.	o	o	sm'h	n.	foggy.
S. S. P. Caland, N. 50° 30′, W. 0° 55′	29.98	761.5	59.0	15.0	91	ssw.			4		7		sw.			1	wsw.	squally.
S. S. Leerdam, N. 49° 47′ W. 17° 00′	29.56	750.8	62.7	17.1	88	ene.			5		8		ne.	1 h'r	1 h'r	mod.	sw.	cloudy.
S. S. W. A. Scholten, N. 42° 58′, W. 60° 37′	30.16	766.1	63.2	17.3	94	sw.			4		8		sw.	12 h'r	12 h'r	3	sw.	foggy.
S. S. Belize, Savanilla, U.S.C.*	29.87	758.7	84	28.9		nne.			4		0			o	o	sm'h		clear.
S. S. Valencia, Puerto Cabello, Venezuela†	30.16	766.1	81	27.2	83	calm			0		5		e.	o	o			fair.
S. S. State of Georgia, N. 51° 46′, W. 32° 11′ †	29.97	761.2	52	11.1		n.			6		7		nnw	sh'rs	sh'rs	sli't	n.	showery.
S. S. State of Indiana, N. 45° 32′, W. 40° 45′ *†	30.26	768.6	58	14.4		n.			3		3		nne.	o	o	sm'h		clear.
S. S. Thingvalla, N. 41° 43′, W. 55° 32′ †	30.33	770.4	70.7	21.5		s.			3		3		s.	o	o	mod.	s.	clear.
S. S. Daniel Steinmann, Montreal, Canada†	30.03	762.7	76	24.4		calm			0		0			o	o			clear.
S. S. Norman, N. 42° 23′, W. 71° 04′						se.			1		fg.			o	o			dense fog.
S. S. Saxon, Philadelphia, Pa †	29.93	760.2				e.			4		10							raining.
S. S. Adriatic, N. 41° 13′, W. 59° 33′ *†	30.45	773.4	71	21.7		s.			4		2		s.	o	o	mod.	sw.	clear.
S. S. Celtic, N. 47° 22′, W. 34° 40′ †	30.03	762.7	60	15.6		n.			6		10		n.	15 h'r	15 h'r	h'vy	n.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.14	765.5	68.5	20.3	79	wnw.			4		2			o	o			clear.
Schr. Abbie H. Gheen, Jersey City, N. J†	30.12	765.0	70	21.1		ese.			6									clear.
Bg. Abbie Clifford, N. 37° 47′, W. 68° 13′ †	30.11	764.8	76	24.4		s.			4		2		s.	o	o	rg'h	s.	clear.
Bk. Aquidneck, N. 6° 09′, W. 27° 53′ *†	30.00	762.0				s.					2		s.	2 h'r	2 h'r	light	se.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Anna A. Holton, N. 25° 43′, W. 78° 15′*†	30.10	764.5	87	30.6		sw.			4		2		sw.	0	0	mod.	sw.	clear.
Schr. Arthur Burton, Bath, Me†	30.15	765.8				calm			0		10		calm	0	0			foggy.
Bk. Aureola, Queenstown, Ireland†	29.59	751.6	64	17.8		e.			5		10		e.	4 h'r	4 h'r			overcast.
Bk. Arda, Sackville, N. B.						n.			3		4		nw.	0	0			fair.
S. S. Burswell, N. 36° 31′, W. 7° 59′*†	30.15	765.8	75	23.9		nw.			1		0			0	0	sm'h		clear.
Bg. Belle of the Bay, Appalachicola, Fla †	29.96	761.0				n.			4		6		w.	1 h'r	1 h'r			threatening.
Bk. Bayonnaise, N. 21° 50′, W. 35° 25′			76.1	24.5		ene.			4		4		ene.			rg'h	ene.	fine.
Schr. C. R. Flint, N. 26° 30′, W. 91° 23′ †	30.08	764.0	82	27.8		sse.			2		8		s.	0	0	short	se.	cloudy.
Bk. Cato, N. 68° 33′, E. 39° 50 *†	30.10	764.5				nnw.			3		2		nnw.			sm'h	nnw.	fair.
Schr. Clotilde, N. 20° 40′, W. 97° 10′ *†	29.92	760.0	80	26.7		nw.			1		10		se.	5 h'r	5 h'r	long	ese.	drizzling.
S. S. D. J. Foley, Port Maria, Jamaica, W. I*†	30.05	763.3	81	27.2	87	e.			3		4		e.	0	0			fair.
Bkt. David A. Preston, Port Royal, S. C.						nw.			2		5		nw.	1 h'r	1 h'r			
S. E. J. Spicer, New York, N. Y	29.89	759.2	69	20.6	100	e.			6		10		e.	12 h'r	12 h'r			raining.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′*†	29.70	754.4	64	17.8		ssw.			6		5		sw.	4 h'r	4 h'r			fine.
U. S. Fish. Com. S. S. Fish Hawk, Norfolk, Va			71	21.7	90	se.			2		10		se.	0.75	19.0			cloudy.
S. Festina Lente, N. 46° 42′, W. 58° 14′	30.08	764.0	53	11.7		se.			4		fg.			8 h'r	8 h'r	long	se.	foggy.
Schr. F. E. Waters, N. 26° 46′, W. 77° 04′*†	30.20	767.1				sw.			2				sw.	0	0	sm'h		fair.
Bk. George Davis, N. 52° 47′, W. 12° 28′						se.			2				ssw.			sm'h		d. clouds.
Bgt George, Arroyo, Porto Rico, W. I*†	30.09	764.3	80	25.7		ene.			2		2			sh'rs	sh'rs	mod.	se.	fair.
Bk. Galeon, N. 37° 45′, W. 65° 50′ †	30.22	767.6	76	24.4		s.			6		10		s.	12 h'r	12 h'r	r'gh	sse.	misty.
Bk. Heinrich & Tonio, N. 41° 10′, W. 66° 25′†	30.06	763.5	61	16.1		ene.			1–2		10			0	0	light	s.	foggy.
S. Hedwig, N. 44° 00′, E. 14° 35′	30.04	763.0	75.6	24.2	82	nw.			1		5		nw.	0	0			fine.
Bk. Hattie G. McFarland, New York, N. Y†	29.99	761.7	68	20.0		sw.			4		10		ese.	8 h'r	8 h'r			clearing.
Bk. Harriett S. Jackson, N. 32° 00′, W. 72° 50′						ssw.			3		10		sw.	2 h'r	2 h'r	h'vy	s.	rainy.
Bk. Horace Scudder, N. 12° 14′, W. 73° 09′ *†	30.05	763.3	80	26.7		e.			5		4		ese.	0	0	light	e.	fine.
Schr. Isabel Alberto, Jacksonville, Fla †	29.92	760.0				wsw.			2		0			0	0			clear.
Bk. Johanne, Bic Island, Canada*†	30.02	762.5	50	10.0		calm			0		10		e; ne.	0	0	sm'h		foggy.
Schr. John L. Thomas, Old Providence Island, C. A *†	30.04	763.0	86	30.0		ene.			4		5		e.	4 h'r	4 h'r			squally.
Bg. John Wesley, N. 6° 20′, W. 23° 09′ *†	29.94	760.5	80	26.7		s.			3		3		sse.	2 h'r	2 h'r	cross	var.	clear.
Schr. Jennie N. Huddell, N. 38° 20′, W 74° 45′†	29.89	759.2	76	24.4		ese.			5		10		se.	2 h'r	2 h'r	chop	se.	cloudy.
S. J. W. Gildemeister, N. 8° 57′, W. 25° 00′	30.06	763.5	77.0	25	96	calm			0		10 n		sw.	2 h'r	2 h'r	3	ne.	raining.
Bkt. Kryolith, N. 52° 47′, W. 50° 26′ *†	30.30	769.6				ssw.			4		10			0	0			foggy.
Bg. L. & W. Armstrong, St. Pierre, Martinique, W. I*†	30.12	765.0				ne.			1		1		ne.	0	0			fine.
Light House Tender, Laurel, off Cape Florida, Fla†	30.06	763.5	85	29.4		sw.			1–2		2		sw.	1 h'r	1 h'r			clear.
Bg. Lilian, N. 36° 40′, W. 72° 50′†	29.88	758.9	75	23.9		se.			5		10		sse.	0	0	r'gh	s.	threatening.
Bk. Louise Adelaide, Delaware Breakwater, Del.			69	20.6		ese.			3		10		w.	1 h'r	1 h'r	sm'h	se.	cloudy.
Bk. Milo, N. 43° 58′, W. 61° 55′†	30.10	764.5				wsw.			2–4		fg.						ssw	dense fog.
S. S. Madrid, N. 39° 00′, W. 76° 22′†.	29.85	758.2	69	20.6	100	var.			2		10			14 h'r	14 h'r			rainy.
Schr. Minnie A. Bonsall, Weehawken, N. J.†	30.02	762.5	72	22.2		ese.			5				rain	rain				rainy.
Bgt. Myrtle, N. 20° 09′, W. 67° 45′*†	30.23	767.8				ese.			4				se.	8 h'r	8 h'r	sm'h		fair.
S. S. Mendoza, N. 34° 39′, W. 53° 37′						calm			0		0			0	0	sm'h	se.	clear.
Bk. National Eagle, N. 37° 00′, W. 15° 57′						sw.			3		2		sw.	0	0	sm'h		fair.
Bg. O. C. Clary, Guadelope, W. I*†	30.05	763.3				ese.			2		0							clear.
Bk. Orpheus N. 39° 05′, W. 70° 18′	30.02	762.5	76	24.4		ese.			3		3 k		se	0	0	mod.	s.	hazy.
Bk. Ottawa, Stockholm, Sweden	30.10	764.5	60	15.6		se.			3		0			0	0	sm'h		clear
S. Paramita, N. 39° 54′, W. 31° 50′†	30.08	764.0	69	20.6		nnw.			0		4		nw.	3 h'r	3 h'r	long	nw.	fair.
S. S. Raleigh, Santiago, Cuba†	30.06	763.5	90	32.2														
S. Rudolph, N. 44° 07′, W. 37° 52′			61.5	16.4		n.			5		8		n.	4 h'r	4 h'r	long	nnw.	cloudy.
Bg. Rising Sun, N. 25° 50′, W. 66° 50′ †	30.10	764.5	85	29.4		se.			4		5		se	0	0	mod.	se.	
Bk. Rosino, N. 36° 34′, W. 2° 54′			73	22.8		se.			2		2		se.	0	0	sm'h		clear.
Bk. Saga, N. 39° 37′, W. 67° 37′ *†	30.06	763.5	67	19.4					1				sse.	1 h'r	1 h'r	long	ese.	clear.
Bk. Sunbeam, N. 39° 36′, W. 16° 42′ †	30.20	767.1	68	20.0	95	sw.			6		5		sw.	0	0	mod.	w.	fair.
Bk. Southern Belle, N. 27° 00′, W. 65° 05′†	30.24	768.1	89	31.7		se.			4		5			0	0	mod.	se.	fair.
S. Sovereign of the Seas, N. 7° 54′, W. 28° 00′*†	30.18?	766.6?	75	23.9	100	s.			1		10		s.	8 h'r	8 h'r	sm'h	var.	rainy.
S. S. Strathleven, N. 40° 07′, W. 67° 49′	30.11	764.8	64.0	17.8	92	e.			3		5		se.	0	0	3	se.	misty.
Bg. Teneriffe, N. 43° 10′, W. 43° 05′*	30.20	767.1				nne.			6		10		ne.			sm'h		
Bk. Tuck Sing, N. 33° 36′, W. 76° 00′*†	29.86	758.4				w.			3		2		w.	1 h'r	1 h'r	mod.	ese.	fine.
Schr. Viola Keppard, Kennebec river, Me†	30.08	764.0	68	20.0		wsw.			1		10		wsw.	0	0			foggy.
Bkt. Wandering Jew, Matanzas, Cuba *†	30.08	764.0	83	28.3		calm			0		2		ssw.	0	0			clear.
Bgt. Sunlight, N. 9° 23′, W. 57° 10′						ese.			4		8		e.	5 h'r	5 h'r	mod.	e.	cloudy.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay †	29.78	756.4	60	15.6	97	n.			1		10							rain & fog.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.28	769.1	65	18.3		nw.			1									d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.77	756.1	58.2	14.6	97	calm			0		10							raining.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.76	755.9	60	15.6	94	ene.	2	0.9			10		w.	1.02	25.9			raining.
U. S. S. Galena, Montevideo, Uruguay*	29.75	755.6	59	15.0	94	nne.			2		10		nne.			sm'h		rainy.
U. S. S. Quinnebaug, S. 5° 50′, E. 11° 58′	30.06	763.5	75	23.9	77	se.			1		5		se.			sm'h	e.	fair.
S. Annie M. Law, S. 31° 05′, E. 12° 35′ *†	30.20	767.1	65	18.3		w.			1		0			0	0	long	wsw.	fine.
S. David Stewart, Pernambuco Brazil†	29.92	760.0				sse.			5		1		sse.	0	0			
S. Wm. McGilvery, S. 53° 54′, W. 64° 05 *†	29.90	759.4	41	5.0	92	nne.			4					0	0	sm'h		misty.
S. S. Olbers, S. 13° 07′, W. 36° 25′†	30.20	767.1	78	25.6	78	ese.			6		7		se.	6 h'r	6 h'r	r'gh	ese.	showery
Bk. Achille F., Montevideo, Uruguay†	29.79	756.7	60	15.6	88	e.			1		10		se.	16 h'r	16 h'r	sm'h		misty.
Bk. Alpheus Marshall, S. 1° 23′, W. 34° 44′ *†	29.88	758.9				se.			3		2		se.	2 h'r	2 h'r			clear.
Bk. Ceylon, S. 4° 41′, W. 22° 54′*†	30.19	766.8	85	29.4	87	ese.			5		2		ese.	0	0	mod.	ese.	clear.
Bk. Gray Eagle, S. 7° 37′, W. 34° 05′*†	30.05	763.3				sse.			5		4			1 h'r	1 h'r	short	sse.	squally.
H. P. M. S. Douro, S. 3° 19′, E. 10° 42′	30.09	764.2	77.0	25.0	76	sw.			3		0			0	0	2	sw.	
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.54	750.3	79	26.1	70	ssw.			2		4	sw.						d. clouds.
H. M. S. Champion, Sulu Island, Oceania	29.79	756.7	80	26.7	96	sw.			3		10					1	ssw.	d. clouds.
H. M. S. Espiegle, N. 5° 19′, E. 163° 55′	29.87	758.7	81	27.2	83	e.			1		10					1	e.	showery
H. M. S. Flying Fish, N. 37° 34′, E. 121° 26′	29.55	750.6	78.5	25.8	76	w.			1		6							d. clouds.
H. M. S. Magpie, N. 6° 00′, E. 117° 49′	29.88	758.9	84.3	29.1	79	calm			0		3							misty.
H. M. S. Zephyr, N. 35° 27′ E. 139° 39′	29.72	754.9	74	23.3	90	calm			0		3							d. clouds.
H. P. M. S. Tamega, Macao, China	29.77	756.1	84.2	29.0	78	sw.			6		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.80	756.9	71.5	21.9	90	calm			0		10			0	0			gloomy.
U. S. S. Adams, Juman, Alaska†	29.82	757.4	51	10.6	86	calm			0		10					sm'h		cloudy.
U. S. S. Essex, Honolulu, Sandwich Ids	30.08	764.0	77	25.0	73	ne.			3		8					sm'h		cloudy
U. S. S. Hartford, N. 3° 37′, W. 158° 32′ *	29.79	756.7	82	27.8	87	e.			5		5		var.	0	0	mod.	var.	fair.
U. S. S. Monocacy, Salee river, Corea	29.72	754.9	73	22.8	76	n.			2		2		calm					showery.
U. S. S. Palos, Hong Kong, China	29.64	752.8	87	30.6	76	sw.			2		2		calm					clear.
U. S. S. Richmond, Shanghai, China *	29.61	752.1	77	25.0	95	se.			1		5		se.	5.4	137.			fair.
S. S. Coptic, N. 44° 40′, E. 162° 55′	30.08	764.0	45.5	7.5	72	ne.			3		8		ne.	0	0	sli't	ne	cloudy.
S. S. Oceanic, San Francisco, Cal	30.03	762.7	64	17.8	62	sw.			3		4		sw.					fair.
S. S. Columbia, N. 43° 16′, W. 124° 39′†	30.05	763.3	58	14.4	85	ssw.			2		10		ssw.			sm'h	ssw.	cloudy.
S. S. Oregon, N. 40° 32′, W. 124° 34′ †	30.11	764.8	56	13.3	94	nnw.			2		0					sm'h		clear.
S. S. Ancon, N. 33° 40′, W. 118° 18′†	29.92	760.0	63	17.2	94	calm			0		0					sm'h		clear.
S. S. City of Chester, San Francisco, Cal†	29.97	761.2	54	12.2	87	w			2		hz.							
S. S. Queen of the Pacific, Portland, Oregon†	30.05	763.3	56	13.3		se.			2		10			0	0			cloudy.
S. S. City of Pekin, N. 45° 38′, W. 174° 55′†	30.30	769.6	52	11.1	100	sse.			6		10		s.	0	0	mod.	s.	cloudy.
S. S. City of Rio de Janeiro, N. 24° 40′, E. 119° 37′†	29.85	758.2	82	27.8	87	ssw.			3		2		ssw.	0	0	light	sw.	clear.
S. S. Colima, Panama, Panama†	29.93	760.2	79	26.1	86	nw.			2		3		nw.	0	0			clear.
S. S. San Blas, N. 23° 00′, W. 108° 51′			77	25.0		ese.			1		1		se.	0	0	h'vy	se.	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. San José, N. 13° 58′, W. 98° 08′ †	29.93	760.2	80	26.7		ese.			4		5 k		se.	0	0	mod	ese.	fair.
S. S. Benledi, Shanghai, China*	29.63	752.6	74	23.3	90	ese.			3		8			0	0	sm'h		cloudy.
S. Gatherer, N. 37° 28′, W. 122° 52′ *†	30.02	762.5	56	13.3	75	wnw.			6		1		w.	0	0	chop	wnw.	clear
S. S. Radnorshire, Shanghai, China *†	29.70	754.4				nw.			2		8		nw.	8 h'r	8 h'r			cloudy.
S. St. David, N. 32° 18′, E. 136° 03′ *†	29.80	756.9	82.3	27.9	87	sse.			2		2		var.	2 h'r	2 h'r	con.	var.	clear.
Bk. Xenia, N. 28° 00′, E. 122° 12′			80	26.7		ssw.			4		8		wnw.	0	0	sm'h	s.	hazy.
H. M. S. Sappho, San Diego, Cal	29.84	757.9	68	20.0	100	n.			2		0							blue sky.
U. S. S. Ranger, N. 13° 06′, W. 88° 01	29.92	760.0	83	28.3	75	calm			0		8		e.	0	0	long	se.	cloudy.
S. Henry Failing, Wilmington, Cal†	29.77	756.1	70	21.1		ese.			2		3		se.	0	0	cross	se.	
S. Grecian, Yokohama, Japan †	29.77	756.1	76	24.4	82	calm			0		10			0	0			overcast.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			54	12.2	87	w			2		0							blue sky.
H. M. S. Kingfisher, S. 34° 26′, W. 80° 21′	30.10	764.5	56	13.3		wnw.			5–6		10					5	wnw.	showery.
H. M. S. Nelson, Souva, Feejee Ids	29.76	755.9	73	22.8	63	sse			3		4	se.						d. clouds.
U. S. S. Iroquois, S. 30° 20′, W. 71° 50′	30.28	769.1	55	12.8	93	n.			3		5					mod.	n.	fair.
U. S. S. Lackawanna, Callao, Peru*	29.98	761.5	62	16.7	83	se.			4		10		se.					cloudy.
U. S. S. Onward, Callao, Peru†	30.13	765.3	61	16.1	82	se.			3		10		s.					cloudy.
U. S. S. Pensacola, Callao, Peru *	29.96	761.0	63	17.2	78	sse.	13	5.8			10		sse.	0	0			cloudy.
U. S. S. Wachusetts, Noukahiva, Marquesas Ids	30.04	763.0	77	25.0	91	nw.			1		5		w.			sm'h		fair.
S. S. Australia, Sydney, N. S. W	30.27	768.8	52	11.1	66	wsw.			2		2		w.	0	0			clear.
S. S. City of New York, S. 20° 33′. W. 173° 08′†	29.93	760.2	75	23.9	52	s.			6		5		s.	2 h'r	2 h'r	hv'y	s.	fair.
S. S. City of Sydney, S. 1° 40′, W. 166° 40′ *†	29.88	758.9	82	27.8	83	ene.			3		8 c		ene.			mod.	ne.	cloudy.
H. M. S. Lark, S. 7° 09′, E. 155° 47′	29.91	759.7	79.3	26.3	89	ene.			2		8					1	se.	showery.
S. Storm King, S. 2° 23′ W. 111° 10′ *†	30.00	762.0				se.			4		1		se.	0	0	sm'h	se.	clear.
Bk. Edmund Phinney, S. 24° —′, W. 76° 17′*†	30.29	769.4	63	17.2		sse.			4		3		s.	½h'r	½h'r	long	ssw.	clear.
S. Parker M. Whitmore, S. 10° 47′, W. 111° 50′ *†	30.00	762.0	76	24.4		ese.			5		3		e.	light	light	short	e.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.17	766.3	77	25.0	86	s.			3		3	ssw.				3	sse.	d. clouds.
H. M. S. Sheldrake, S. 5° 08′, E. 106° 37′			82	27.8		sse.			2		2							d. clouds
H. M. S. Tourmaline, Trincomalee, Ceylon, India	29.80	756.9	87	30.6	65	sw.			2		3	sw.						d. clouds.
U. S. S. Enterprise, Majunga, Madagascar, Africa *†	30.17	766.3	82	27.8	63	ssw.			1		2		calm			sm'h		clear.
U. S. S. Juniata, Trincomalee, Ceylon, India	29.80	756.9	82	27.8	96	sw.			3		5		sw.	0	0	sm'h		hazy
S. S. Toledo, N. 20° 55′, E. 38° 58′*†	29.87	758.7	86	30.0		nne.			4		0					sli't	n.	clear.
S. S. Malabar, N. 5° 58′, E. 67° 15′ *†	29.85	758.2				w.			7		10		w.	0	0	h'vy	w.	cloudy.

International Chart I. · June 27, 1883. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 28, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.03	762.7	72.7	22.6	84	se.			1		0			0	0	clear	Malaterre.
Algiers			30.07	763.8	74.8	23.8	75	nne.			1		6			c	0	cloudy	Thève.
La Calle			30.03	762.7															Fonfréde.
Tunis			30.04	762.9															Jacques.
Saida			30.06	763.6															Pérès.
Tebessa			30.04	762.9	86.0	30.0	21	w.			4		2			0	0	fair	St. Martin.
Geriville					95.5	35.3	11	nw.			1		0			0	0	clear	Forfert.
Laghouat			29.98	761.5	95.7	35.4	23	ese.			2		0			0	0	clear	Abraham.
Biskra			29.98	761.4	97.2	36.2	19	nw.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.18	766.6	53.3	11.8	71	ne.	10	4.5			8 k			0.005	0.1	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.98	761.5	30.07	763.8	54.1	12.3	70	n.	19	8.5			7			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.47	748.6	30.00	762.0	77.4	25.2	40	ne.			3		8			0.087	2.2	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.37	746.1	30.12	765.1	69.8	21.0	51		16.1	7.2			2			0	0		Dr. Wierzbiski
Eperies	29.21	742.0	30.06	763.5	73.4	23.0	48	n.			2		8 ks		s.	0.496	12.6		Julius Mikolik.
Gratz	28.86	733.0	30.08	764.0	67.8	19.9	80	nw.			2		9			0.047	1.2	lightning	Andreas Rospini.
Hermannstadt	28.63	727.2	29.99	761.8	77.0	25.0	36	se.			4		6			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.77	730.7	30.06	763.4	73.8	23.2	63	ne.			1		8			0.020	0.5	heavy cl'ds	The Staff.
Lemberg	29.18	741.1	30.13	765.4	70.7	21.5	45	se.			2		8			0	0		Dr. T. Stanecki.
Neu Schmecks													2						Dr. V. von Szontagh.
Pola	29.91	759.8	30.02	762.5	78.4	25.8	65	wnw.			4					0	0		I. R. Hydrographic Office.
Szathmar	29.59	751.5	30.04	763.0	74.3	23.5	31	e.			1		7			0	0		Joseph Midlinsky, S. J.
Szegedin	29.75	755.7	30.02	762.6	66.9	19.4	79	calm			0		5			0.417	10.6	lightning	Karl Stancel.
Trieste	29.93	760.2	30.03	762.7	82.0	27.8	37	ne.			1		10			0.047	1.2		Royal Academy.
Vienna	29.40	746.7	30.09	764.2	74.5	23.6	44	n.			2		6			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.58	751.3	29.68	753.9	61.3	16.3	77	sse.	16	7.2			5			blank	blank	blue sky	W. Boswell.
Armagh, Observatory	29.46	748.3	29.68	753.9	57.0	13.9	89	sse.	6	2.7			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.78	756.4	63.2	17.3	88	w.	13	5.8			9					overcast	John Hartnup.
Bolton, Sharples	29.25	742.9	29.77	756.1	62.8	17.1	80	s.	18	8.0			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.38	746.2	29.78	756.4	65.6	18.7	68	sw.			3		10			0.04	1.0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	82.0	27.8	75	ne.			2		8					overcast	Corpl. W. I. Cull, A. H. C
Cardington	29.80	756.9	29.90	759.4	69.0	20.6	77	sw.			5.0		8					overcast	John McLaren.
Chatham, School M. E.	29.82	757.4	29.95	760.7	65.8	18.8	85	sw.			1		8			blank	blank	gloomy	Corpl. G. A. Pickles.
Falmouth, Observatory	29.67	753.6	29.89	759.2	62.6	17.0	88	s.			3		10					overcast	The Staff.
Fort Napier, Natal	27.95	709.9	30.17	766.3	75.5	24.2	47	n.			1		2					blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	81.0	27.2	83	nw.			1		4					d. clouds	J. W. Smith.
Galway, Queen's College	29.61	752.1	29.64	752.8	61	16.1	82	w.			1		5			0.01	0.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	74.8	23.8	79	w.			1		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.50	749.3	29.70	754.4	64.7	18.2	68	sw.			2		5					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.78	756.4	29.95	760.7	68.8	20.4	75	sw.			4		8					d. clouds	The Staff.
Guernsey	29.76	755.9	30.06	763.5	61.0	16.1	97	s.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.91	759.7	29.95	760.7	67.3	19.6	74	ssw.	23	10.3			9					d. clouds	The Staff.
Leicester, Museum	29.59	751.6	29.84	757.9	65.6	18.7	80	sw.			3		9					overcast	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.97	761.2	72.4	22.4	92	ne.			2		0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.17	766.3	85.0	29.4	68	s.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.34	745.2	29.86	758.4	63.3	17.4	86	s.			5		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.68	753.9	29.91	759.7	65.9	18.8	78	s.			5		9					overcast	The Staff.
Plymouth	29.84	757.9	29.92	760.0	59.2	15.1	98	sw.			2		10					foggy	John Merrifield.
Sandwick Manse, Orkneys	29.56	750.8	29.66	753.4	56.6	13.7	66						1						Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.84	757.9	29.90	759.4	79.0	26.1	54	ne.			1		3			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.54	750.3	29.81	757.2	71.9	22.2	83	ssw.			3		7			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.79	756.7	29.82	757.4	62.6	17.0	78	sw.			3		10			0.025	0.6	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	29.86	758.4	29.94	760.5	65	18.3	89	sw.			6		10					raining	W. Newcombe.
Valencia, Observatory	29.69	754.1	29.71	754.6	60.3	15.7	82	se.	9	4.0			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.62	752.3	30.02	762.5	75.2	24.0	83	sw	5.0	2.2						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.					60.0	15.6		calm	0	0			10 ks			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.03	762.7	30.07	763.8	68	20.0	83	sw.	6	2.7		0	8 s		w.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.02	762.5	30.08	764.0	60	15.6	93	e.	2	0.9			10 s		e.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.64	752.8	29.82	757.4	69.0	20.6	92	e.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.01	762.2	30.06	763.5	58.5	14.7		e.			3		10 s			0	0	gloomy	H. A. Johnson.
Father Point, Quebec*	29.98	761.5	30.00	762.0	49	9.4	86	ne.	8	3.6		0	0			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.03	737.3	29.83	757.7	65	18.3	90	s.	7	3.1		2 c	5 ks	nw.	nw.	0	0	fair	James Stewart.
Fredericton, N. B	30.02	762.5	30.08	764.0	68.1	20.1	76	se.	3	1.3			10 s			0	0	overcast	Prof. Harrison, L. L. D.
Granton, Ontario	28.75	730.2	29.82	757.4	58.0	14.4	100	s.	5	2.2			10			1.82	46.2	misty	Jas. Grant.
Halifax, N. S*	29.99	761.7	30.12	765.0	62	16.7	93	calm	0	0		5 cs	10			0	0	hazy	A. Allison.
Hamilton, Ontario	29.42	747.3	29.80	756.9	62.2	16.8	94	ne.			1		0			0.85	21.6	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.53	750.0	29.86	758.4	66	18.9	93	ne.	3	1.3			10 n		e.	0.23	5.8	light rain	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.00	762.0	30.04	763.0	70.8	21.6	84	sw.			3	5 k	0	sw.		0	0	fair	C. H. Rigby.
London, Ontario	28.96	735.6	29.84	757.9	58.7	14.8	99	s.					10 n			1.89	48.0	overcast	E. B. Reed.
Montreal, Quebec*	29.67	753.6	29.86	758.4	70	21.1	81	se.					10 ks		se.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.62	752.3	29.86	758.4	70.9	21.6		e.			1	8 ck	0			0.15	3.8	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.17	740.9	29.83	757.7	67	19.4	93	e.	4	1.8			10 n		e.	0.04	1.0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.13	739.9	29.83	757.7	67.2	19.6	91	se.			1		10 ks			0.100	2.5	overcast	J. Dixon, B. A.
Port Dover, Ontario	29.16	740.7	29.83	757.7	63	17.2	100	s.	8	3.6			10 cs			0.54	13.7	threatening	H Morgan.
Port Stanley, Ontario	29.19	741.4	29.82	757.4	61	16.1	93	sw.	4	1.8			10 n		sw.	0.64	16.3	cloudy	M. Payne.
Quebec, Quebec*	29.63	752.6	29.98	761.5	58	14.4	96	ne.	16	7.2			10 s		ne.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.42	747.3	29.87	758.7	62	16.7	96	calm	0	0			10 ks		se.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.00	762.0	30.05	763.3	55	12.8	93	se.	4	1.8			fg.			0	0	foggy	
St. John, N. B	29.92	760.0	30.08	764.0	61.0	16.1	94	sw.	2	0.9			fg.			0	0	foggy	G. Murdock, C. E.
Saint John's, N. F	29.82	757.4	30.07	763.8	57	13.9	94	s.			2		10 ks			0.47	11.9	d. clouds	J. Higgins.
St. Pierre, N. F			30.04	763.0	61.9	16.6		se.			2					0	0		The Commandant.
Saugeen, Ontario*	29.09	738.9	29.79	756.7	62	16.7	93	se.	10	4.5			10 s			0.28	7.1	light rain	
Stratford, Ontario	28.57	725.7	29.82	757.4	58.9	14.9	99	s.	3	1.3			10			2.600	66.0	foggy	C. J. Macgregor, M A.
Sydney, C. B*	30.04	763.0	30.09	764.3	65	18.3	90	sw.	8	3.6		10 k	0			0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.48	748.8	29.85	758.2	62	16.7	96	e.	4	1.8			10 n			0.32	8.1	foggy	Magnetic Observatory.
Windsor, N. S	29.97	761.2	30.06	763.5	64.0	17.8	89	se.	6	2.7			10 ks			0	0	overcast	Prof. W. B. Butler, M.A.
Woodstock, Ontario	28.79	731.3	29.83	757.7	62.0	16.7	95	se.	12	5.4			10 s			1.27	32.3	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.00	762.0	30.07	763.8	65	18.3	97	se.	2	0.9			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	30.02	762.5	30.05	763.3	70.0	21.1	65	ne.	4.8	2.1		0	3 s			0	0	hazy	John Duthie
Springbok Fontein	28.07	713.0			71	21.7	18	e.											J. T. Eust Ce.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Tchang-kin-tchouang	29.67	753.5	29.78	756.3	80.4	26.9	46	ne.			4		8			0.020	0.5		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.79	756.6	29.81	757.2	76.1	24.5	91	e.	8.9	4.0		10 ck	0			0	0	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.09	764.3	30.14	765.5	70.9	21.6	71	se.	18	8			1						Oversergent Fischer.
Fanoe	30.04	763.0	30.06	763.5	71.2	21.8	73	ssw			4		7						Overloerer Lauridsen.
Godthaab, Greenland	29.57	751.0	29.61	752.1	43.9	6.6	62	ne.			2		0						S. Kleinschmidt.
Jacobshavn, Greenland	29.72	755.0	29.77	756.2	38.5	3.6		n.			4		2						
Stykkisholm, Iceland	29.51	749.6	29.56	750.7	48.2	9.0	83	e.			6		10					raining	A. O. Thorlacius.
Thorshavn	29.49	749.0	29.51	749.6	51.6	10.9	97	se.	13	6			10					rain & fog	Overloerer Bergh.
Vestervig	29.94	760.5	30.03	762.8	68.7	20.4	61	s.			6		7						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.72	754.8			87.3	30.7	25	n.	5.4	2.4		0	2 k			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.45	747.9	30.02	762.6	83.1	28.4	55	e.			1		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.53	750.1	30.08	764.1	69.8	21	63	se.			1		kn		sw.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.97	761.2	30.05	763.3	87.4	30.8	43	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.56	750.7	30.09	764.2	76.1	24.5	40	sse.			1	5 c	0			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.82	757.3	30.07	763.8	75.2	24	53	s.			1		5		sw.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.19	741.3	30.06	763.4	78.8	26	42	e.			1	0	0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.77	756.1	30.02	762.6	69.6	20.9	84	e.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.52	749.8	30.04	763.1	79.7	26.5	46	ne.			1		1		ne.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.79	756.6	30.03	762.8	64.4	18.0	88	sw.			3		10		sw.	0.189	4.8		M. de Kermarée, Dir.
Caen, Normal School	29.94	760.4	30.01	762.2	70.9	21.6	70	s.			1		10		s.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.76	756.0	30.08	763.9	80.2	26.8	79	s.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.59	751.5	30.08	764.0	77.5	25.3	43	ssw.			1		2			0	0	¼ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.75	730.3	30.04	763.1	77.9	25.5	37	ne.			1	2 c	0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.26	743.2	30.09	764.3	79.7	26.5	45	e.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.26	743.3	30.10	764.4	72.0	22.2	48	se.			1	ck		se.	se	0	0		Dr. Coulet, Director.
Gap, Normal School	27.58	700.4	29.98	761.6	80.6	27	20	se.			1	0	1 k			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.95	735.2	30.00	762.1	86.0	30.0	36	nw.			1		1		nw.	0	0		M. Kina, Director.
Grenoble. Normal School	29.31	744.4	30.06	763.4	81.0	27.2	50	ene.			1	0	2 ks			0	0		M. Ablard, Director.
Guéret, Normal School	28.54	725.0	30.08	763.9	76.1	24.5	50	sw.			1	0	5 k			0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.85	758.1	30.11	764.9	70.9	21.6	77	s.					k		s.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.45	748.1	30.03	762.8	76.6	24.8	67	wnw.			3	0	1 n			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.95	760.8	30.06	763.4	66.9	19.4	77	sw.			2		8		sw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.0	30.07	763.8	76.8	24.9	47	n.			1		1		ese.	0	0	hazy	M. André, Director.
Mans, Normal School	29.79	756.6	30.09	764.3	70.9	21.6	67	w.			1		2		sw.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.80	756.8	30.06	763.5	77.0	25.0	58	wsw.			1		0			0	0		M. Stephan, Director.
Montlouis	24.85	631.2	29.69	754.2	60.1	15.6	26	ne.	9.4	4.2			6		ne.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.87	758.8	30.00	761.9	82.0	27.8	58	s.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.34	745.2	30.09	764.3	74.8	23.8	56	sse.			1	c	0			0	0		M. Hasse, Director.
Nantes, Observatory	29.94	760.5	30.10	764.6	79.5	24.7	51	s.			0-1		4 k; kn		w.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.95	760.8	30.06	763.5	77.2	25.1	61	n.	11.2	5.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.45	544.8			52.2	11.2		sw.			1		1		sw.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.02	737.1	30.04	762.9	80.6	27	46	s.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.33	643.4			59.5	15.3	80	e.			1		2			0	0	¼ covered	M. Alluard.
Rochefort, Naval Obs'y	30.02	762.5	30.05	763.3	81.3	27.4	45	e.			1		2		s.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.84	757.9	30.04	763.1	76.3	24.6	61	w.			1		5		e.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.11	714.1	30.16	766.1	80.6	27		nw.			2		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.02	762.4	30.06	763.6	72.0	22.2	70	sw.			2		5	s.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.93	760.2	30.09	764.3	77.2	25.1	44	sw.			1		1	w.	sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.34	745.2	30.06	763.6	87.4	30.8	53	se.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.90	759.4	30.08	763.9	73.8	23.2	53	s.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.61	752.0	30.10	764.5	75.2	24.0	47	sw.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	29.89	759.2	30.04	763.0	79.5	26.4	62	e.	4.0	1.8		1 c	0			0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.71	729.1	30.10	764.5	73.8	23.2	55	calm			0		2			0	0		Prof. Jnedt.
Bamberg	29.26	743.1	30.10	764.6	76.3	24.6	50	e.			1	0	3 k		se.	0	0		Prof. Dr. Hoh.
Berlin	29.96	761.0	30.10	764.5	78.8	26.0	41	calm			0		4			0	0		Dr. Sensch.
Breslau	29.65	753.1	30.19	766.7	73.4	23.0	35	e.			2		1			0	0		Royal University Obs'y.
Carlsruhe	29.66	753.4	30.10	764.7	77.0	25.0	50	n.			1		4	nw.		0	0		Albert Senz.
Cassel	29.40	746.8	30.11	764.9	81.0	27.2	38	sw.			2		4	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.07	763.7	77.4	25.2	45	ese.			1		2			0	0		Physical Society.
Friedrichshafen	28.72	729.6	30.10	764.4	72.1	22.3	77	wsw.			3		2	wnw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.00	762.0	30.09	764.3	76.8	24.9	56	ssw.			2		5			0	0		E. Preller.
Kiel	30.07	763.8	30.09	764.2	71.4	21.9	56	s.			2		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.70	754.4	30.10	764.6	80.4	26.9	40	s.			1		8	se.		0	0		H. Leppig, Asst.
Magdeburg	29.91	759.6	30.09	764.2	79.0	26.1	43	s.			2		4	se.		0	0		Weather Observatory
Memel	30.23	767.8	30.28	769.0	70.9	21.6	53	wnw.			1	0	0					clear	Issermann.
Munich	28.32	719.3	30.19	766.9	71.4	21.9	43	ne.			1		4	nw.		0	0		Central Station.
Neufahrwasser	30.20	767.6	30.21	767.4	77.0	25.0	39	se.			2		3			0	0		A. Lothes.
Neustadt, Palatinate	29.56	750.8	30.09	764.3	78.3	25.7	44	e.			2		3			0	0		Dicknether.
Stuttgart	29.17	740.8	30.02	762.6	75.2	24.0	50	n.			1		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.11	764.7	30.13	765.4	77.2	25.1	54	se.			2	0	8 k			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.56	750.8	29.89	759.3	75.6	24.2		n.			1.0		6 k			inap.	inap.		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.34	745.3	29.39	746.5	89.1	31.7	73	wnw.	28.0	12.5			10			0	0	overcast	
Deesa	28.94	735.2	29.41	747.1	78.9	26.1	87	sse.	4.0	1.8			9		sse	1.23	31.2	d. clouds	
Bombay	29.58	751.3	29.62	752.2	81.3	27.4	91	wsw.	24.0	10.7			10		sw.	0.80	20.3	overcast	
Poona, Yarrowda	27.80	706.1	29.66	753.4	72.8	22.7	90	sw.	13.0	5.8			10			0.27	6.9	overcast	
Trichinopoly	29.48	748.7	29.75	755.7	91.0	32.8	54	wnw.	2.0	0.9			7	nne.	ne.	0	0	d. clouds	
Belgaum	27.18	690.5	29.74	755.3	70.6	21.4	89	w.	9.0	4.0			10	s.	w.	0.64	16.3	d. clouds	
Lahore	28.60	726.5	29.30	744.1	106.3	41.3	28	e.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.54	724.8	29.40	746.7	93.8	34.3	60	calm	1.0	0.4			2		s.	0	0		
Agra	28.86	732.9	29.39	746.6	98.1	36.7	44	s.	2.0	0.9			5		e.	0	0	d. clouds	
Nagpur	28.49	723.7	29.52	749.8	82.0	27.8	76	w.	16.0	7.2			9		w.	0.17	4.3	gloomy	
Jubbulpore	28.15	715.0	29.48	748.7	86.5	30.3	71	wnw.	10.0	4.5			8		nw.	0.12	3.0	d. clouds	
Lucknow	29.08	738.5	29.44	747.7	95.0	35.0	52	ese.	4.0	1.8			3			0	0	d. clouds	
Allahabad	29.10	739.0	29.40	746.6	95.5	35.3	52	ne.	2.0	0.9			0			0	0	blue sky	
Patna	29.27	743.4	29.45	748.0	90.0	32.2	63	ene.	3.5	1.6			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.47	697.6	29.43	747.6	82.3	27.9	72	ene.	8.4	3.8			10			0	0		
Cuttack	29.31	744.6	29.40	746.6	81.0	27.2	86	calm	4.0	1.8			10		w.	1.47	37.3	drizzling	
Calcutta, Alipore	29.30	744.2	29.32	744.7	83.3	28.5	77	ene.	19.0	8.5			9		e.	0.09	2.3	d. clouds	
Dhubri	29.38	746.4	29.50	749.3	82.7	28.2	82	ene.	8.2	3.7			9			0.03	0.8	d. clouds	
Chittagong	29.45	748.0	29.54	750.3	77.7	25.4	92	se.	8.3	3.7			10			0.10	2.5	drizzling	
Sibsagar	29.20	741.7	29.53	750.0	88.4	31.3	75	se.	2.0	0.9			8	e.	e.	0	0	d. clouds	
Jeypore	28.04	712.1	29.44	747.7	89.8	32.1	57	s.	7.3	3.3			3		s.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.08	764.2	30.11	764.7	83.0	28.3	46	ssw.	11.4	5.1			2	ne.		0	0	d. clouds	
Bellary	28 22	716.8			83.2	28.4	60	sw.	8	3.6		5 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.65	753.0	30.04	763.1	78.8	26.0	53	e.	0.7	0.3			4			0.181	4.6		Prof. Giovanni Clodig.
Milan	29.56	750.7	30.06	763.4	81.0	27.2	46	nw.	3.1	1.4			3	nw.		0	0		Prof. G.V.Schiapparelli.
Padua	29.93	760.2	30.04	762.9	80.6	27.1	36	ne.	4.3	1.9			2			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.17	740.9	30.05	763.2	78.8	26.0	54	n.	1.8	0.8			5	n.		0	0		Prof. F. F. Denza.
Genoa	29.87	758.6	30.05	763.3	74.5	23.6	72	sw.	3.1	1.4			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.19	716.1	30.05	763.2	75.7	24.3	51	nw.			2		1	nw.		0	0		Prof. D. C. Bruno.
Pesaro	29.99	761.8	30.04	763.0	74.1	23.4	80	n.	12.5	5.6			8			0	0		Prof. Luigi Guidi.
Florence	29.76	756.0	30.02	762.4	83.5	28.5	42	ne.			2		1			0	0		Prof. Costantino Pittei.
Leghorn	29.89	759 3	29.98	761.4	73.8	23.2	64	nw.	0.7	0.3			3			0	0		Prof. P. Monte.
Rome	29.78	756.4	29.95	760.7	85.5	29.7	42	w.	3.8	1.7			2	sse.		0	0		Prof. P. Tacchini.
Lecce	29.69	754.0	29.93	760.2	78.8	26.0	42	nne.	12.5	5.6			1			0	0		Prof. O. de Giorgi.
Cosenza	29.08	738.7	29.93	760.3	87.4	30.8	68	wsw.	3.8	1.7			2	sw.		0	0		Prof. D. Conti.
Cagliari	29.82	757.3	30.00	762.1	76.1	24.5	71	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.76	756.0	30.01	762.2	77.4	25.2	43	ne.	6.9	3.1			0			0	0		Prof. G. Cacciatore.
Syracuse	29.89	759.2	29.93	760.3	75.4	24.1	68	nne.	3.1	1.4			10	w.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.48	748.8	29.99	761.7	75.9	24.4	65	ne.	8.7	3.9			6	w.		0	0		Prof. F. Brioschi.
Stelvio	22.38	568.3			50.0	10.0	51	e.			2		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.41	569.3			49.8	9.9	69	e.			2		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.88	758.9	29.91	759.8	62.3	16.8	89	calm			0		10 ck		s	0.051	1.3	cloudy	H. Hattori.
Awomori	29.87	758.7	29.90	759.4	60.1	15.6	87	ene.	5.5	2.5		1 cs	0			0	0	clear	K. Ogawa.
Hamamatsu	29.82	757.4	29.85	758.1	72.0	22.2	88	calm			0	1 c	0			0	0	clear	Y. Sekigawa.
Kanazawa	29.83	757.7	29.93	760.3	67.0	19.4	86	e.	5.8	2.6		0	Scuks			0	0	overcast	S. Endo.
Kagoshima	29.87	758.7	29.88	759.0	76.7	24.8	90	calm			0		10 s			0.004	0.1	overcast	G. Miyanohaza.
Kioto	29.71	754.7	29.89	759.1	67.6	19.8	72	nnw.	3.3	1.4		0	4 s			0	0	fair	M. Tojima.
Kochi	29.88	759.0	29.90	759.5	72.1	22.3	85	s.	3.3	1.4			10 s			0.01	0.3	overcast	K. Kusunose.
Miasaka	29.89	759.2	29.92	759.9	70.9	21.6	94	ese.			1		10 n		se.	0.382	9.7	raining	K. Masusaki.
Miyako	29.82	757.5	29.93	760.3	56.5	13.6	100	e.	1.5	0.6			10 n					raining	N. Honno.
Nagasaki, I. M. Obs'y	29.66	753.3	29.86	758.4	70.5	21.4	90	ene.	5.7	2.5			10 s			0.160	4.1		S. Takehayashi.
Niigata	29.90	759.4	29.94	760.5	63.7	17.6	86	ne.	0.9	0.4		0	8 ks		sw.	0	0	cloudy	M. Morita.
Nobiru	29.88	758.9	29.90	759.3	64.6	18.1	90	ene.	1.0	0.4			10 s			0	0	overcast	H. Midzushina.
Numazu	29.82	757.4	29.85	758.3	70.0	21.1	89	nnw.			1	6 ck	4 ks			0	0	cloudy	R. Kaneda.
Osaka	29.86	758.5	29.88	758.9	70.9	21.6	69	nne.	6.0	2.7			10 s			0	0	cloudy	H. Omura.
Sakai	29.91	759 7	29.92	759.9	67.8	19.9	83	nne.			2	0	0			0	0	clear	K. Yamawchi.
Tokei Obs'y, Yeddo	29.78	756.4	29.85	758.2	70.0	21.1	90	ene.	5.8	2.6		2 cs	1 s		nne.	0.265	6.7	fair	The Staff.
Wakayama	29.82	757.5	29.87	758.8	73.4	23.0	67	n.	1.6	0.7		3 c	7s;ck		w.	0	0	cloudy	K. Sakai.
Shimonoseki	29.75	755.5	29.89	759.2	68.4	20.2	91	calm			0	0	3 s		w.	0.008	0.2	fair	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	73.0	22.8	65	ese.	21.0	9.4		0	2 k;ks		se.	0.03	0.8	fair	The Staff.
MEXICAN.																			
Guanajuato	23.71	602.1	29.93	760.1	60.1	15.6	96	w.	inap.	inap.			10 n		s.	2.676	68.0	raining	Prof. Vicente Fernandez
Leon	24.33	618.0	29.98	761.5	59.9	15.5	93	ese.	0.9	0.4			10 n			2.014	51.1	covered	Prof. M. Leal.
Mazatlan	29.72	754.9	29.98	761.4	77.5	25.3	88	n.	5.3	2.3			9 n		sw.	inap.	inap.	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					80	26.7	82	se.	8.4	3.8		4 ck	0	s.		0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.04	763.0	30.04	763.0	72.7	22.6		ssw.			4					0	0		
Groningen	29.98	761.6	30.04	763.0	71.1	21.7		ssw.			4					0	0		
Helder	30.01	762.3	30.01	762.3	68.0	20.0		sw.			4					0	0		
Hellevoetsluis	30.02	762.5	30.02	762.5	73.2	22.9	60	ssw.			3					0	0		
Utrecht	30.02	762.4	30.06	763.6	76.5	24.7	50	ssw.			4		5			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.90	759.5			80.4	26.9	78	ne.	0.5	0.2			4			0	0		Lt.J. J. Roptman.
NORWEGIAN.																			
Bergen	29.74	755.5	29.81	757.0	59.4	15.2	91	s.	29	13			10			0.717	18.2	raining	
Brono	29.93	760.1	29.97	761.1	59.0	15.0	73	sw.			4		4			0	0		
Christiania	29.95	760.8	30.10	764.5	63.3	17.4	66	s.	4	2			10			0.004	0.1		
Gjæsvær	29.82	757.3	29.84	757.9	56.7	13.7		ne.			2		0						
Lodingen	29.82	757.3	29.86	758.5	53.8	12.1	96	wsw.			7		10			0.594	15.1	thnd'r str'm	
PORTUGUESE.																			
Angra, Azores	29.92	760.0	30.08	764.0	66.9	19.4	60	n.	11.2	5.0			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.06	738.0	30.02	762.4	78.4	25.8	44	sse.	6.3	2.8			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.08	764.1	30.17	766.3	70.7	21.5	57	sw.	4.3	1.9			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.75	755.6	30.08	764.0	68.5	20.3	67	ssw.	16.1	7.2			4	sw.		0	0		The Staff.
Ponta Delgada, Azores	30.05	763.2	30.12	765.0	69.1	20.0	54	n.	4.9	2.2			4			0.106	2.7		
Saint Paul de Loando	29.84	757.8	30.04	762.9	74.1	23.4	86	w.			2		0			0	0		
San Salvador	28.17	715.6	30.01	762.3	77.2	25.1	53	ssw.			3		0			0	0		
Serra da Estrella	25.38	644.7	29.98	761.6	62.6	17.0	48	ese.	13.0	5.8			2			0	0		
RUSSIAN.																			
Akmolinski	28.18	715.7	29.17	740.8	81.0	27.2	31	w.	18	8		0	1 k			0	0		Major K. Lasarew.
Archangel	29.94	760.4	29.96	760.9	68.0	20.0	53	nw	9	4			9 k			0	0		Capt. Sselliwerstow
Ashurada	29.89	759.3	29.80	756.9	79.5	26.4	79	ssw.	11	5			10 km			blank	blank		
Astrakhan	30.00	762.1	29.92	760.0	70.9	21.6	39	n.	4	2		cs	2 s			0	0	light clouds	Capt. Wisganow.
Baku	29 94	760.5	29.89	759.3	74.1	23.4	34	n.	22	10		0	1 ks			0	0		
Barnaul	29.22	742.2	29 71	754.5	59.2	15.1	53	ne.	2	1			6			0	0		Meteorological Obs'y
Bielosersk	29.59	751.5	30.04	762.9	73.4	23.0	51	nw.	2	1		0	2 k			0	0	hazy	
Dorpat	29.96	761.0	30.19	766.9	75.6	24.2	45	w.	4	2		0	4 k			0	0		Observatory.
Ekaterinburg	28.55	725.2	29.47	748.6	65.3	18.5	45	n.	4	2		ck	10 n			0.071	1.8		Meteorological Obs'y
Elissawetgrad	29.63	752.6	30.06	763.6	77.2	25.1	33	nnw.	7	3		0	7 ks			0	0		
Irkutsk	27.87	707.9	29.39	746.5	77.5	25.3	65	calm			0		10			0	0		
Kasalinsk																			
Kasan	29.46	748.2	29.71	754.6	74.8	23.8	37	nw.	13	6			10			0.118	3.0	raining	Observatory.
Kem	29.91	759.8	29.97	761.1	72.1	22.3	64	wsw.	13	6		0	7 ks			0	0		
Kertch	29.93	760.2	29.95	760.8	71.6	22.0	50	ne.	7	3		5 c	0			0	0		Lagorio & Shstyrea.
Kieff	29.47	748.4	30.08	763.9	74.1	23.4	41	nne.	2	1		ck	6 ks			0	0		Observatory.
Koslov	29.39	746.5	29.90	759.5	75.7	24.3	49	nnw.	13	6		0	8 k			0	0	hazy	
Libau	30.20	767.1	30.22	767.7	66.4	19.1	63	sw.	9	4			0			0	0		E. Quaas.
Lugan	29.72	755.0	29.90	759.5	78.8	26.0	26	wnw.	4	2			4			0	0		Meteorological Obs'y.
Moscow	29.52	749.9	29.97	761.2	75.6	24.2	41	wnw.	13	6			10 k;s			0	0	light clouds	Meteorological Obs'y
Nikolaiev	29.97	761.3	30.05	763.2	80.6	27.0	35	ene.	2	1		0	3 kn			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.53	750.0	29.61	752.2	67.5	19.7	65	calm	0	0			10					thnd'r storm	Iwanow.
Pekin, China	29.60	751.7	29 74	755.3	83.8	28.8	40	s.	2.2	1.0		0	2 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.37	745.9	29.69	754.2	89.1	31.7	18	n.	4.5	2.0			0			0	0		
Petrozavodsk	29.83	757.7	30.02	762.5	77.2	25.1	43	ese.	9	4		3 ck	0			0	0	hazy	Dr. Bergmann.
Pinsk	29.69	754.1	30.17	766.2	78.8	26.0	46	calm	0	0		0,	3 k			0	0		
Poti	29.84	758.0	29.87	758.8	74.1	23.4	67	calm	0	0		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
St. Petersburg	30.12	765.0	30.14	765.6	69.3	20.7	44	nw.	16	7		0	0			0	0		Central Physical Obs'y.
Samarkand	27.22	691.3	29.50	749.2	88.0	31.1	47	calm	0	0		0	0			0	0		
Semipalatinsk	28.96	735.5	29.58	751.2	75.7	24.3	41	calm	0	0			7			0.146	3.7		Major Lasarew
Sevastopol	29.74	755.5	29.97	761.1	73.2	22.9	47	sw.	20	9		0	3 s			0	0		
Staroi Bykhov	29.73	755.2	30.17	766.4	76.6	24.8	39	nne.	9	4		0	8 k			0	0		
Tashkend	27.94	709.6	29.43	747.5	100.1	38.4	31	calm	0	0		0	1 s			0	0		Terch, A. M.
Tiflis	28.51	724.2	29.89	759.2	67.8	19.9	79	calm	0	0			10			1.067	27.1		Physical Observatory.
Vernoe	27.07	687.5	29.34	745.3	90.7	32.6	33	calm	0	0		0	0			0	0		
Viatka	29.13	739.8	29.73	755.2	67.6	19.8	36	n.	7	3			3			0	0		
Warsaw	29.80	756.8	30.20	767.1	75.2	24.0	42	se.	4	2		0	4 k			0	0		Astronomical Obs'y.
Yeniseisk	29.50	749.3	29.78	756.4	59.4	15.2	57	w.	13	6			3			0.004	0.1		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.62	752.3	57	13.9	94	sw.			4	5	5	sw.		0.5	13.	d. clouds	J. Youngclause.
North Unst			29.68	753.9				se.			4	6	2	calm					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.03	762.7	30.13	765.4	77.4	25.2	68	s.	2.2	1.0		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.97	761.1	30.02	762.6	80.4	26.9	54	nw.	2.5	1.1		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.10	688.4	29.92	760.0	77.0	25.0	50	sw.	1.8	0.8		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.5	29.97	761.1	83.7	28.7	27	se.	7.4	3.3		2	0	wsw.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.89	759.1	30.03	762.7	82.6	28.1	57	ene.	3.8	1.7		0	2			0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.27	743.5	30.03	762.8	68.0	20.0	86	n.	7.2	3.2		2 k	2 k	w.	w.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.11	739.4	29.98	761.6	69.6	20.9	62	sw.	12.5	5.6			6			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.04	763.0	30.11	764.7	81.0	27.2	80	ese.	2.2	1.0		c	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.8	29.93	760.2	76.8	24.9	92	e	5.5	2.5			10 n			0.118	3.0	misty	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.3	30.11	764.8	72.5	22.5	63	sw.	6.3	2.8		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	761.9	30.09	764.2	79.5	26.4	97	calm	0	0		2 cs	2 kn	se.	se.	0.228	5.8	clear	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.94	760.4	29.98	761.4	63.3	17.4	78	sw.			6		2			0	0		
Umea	29.98	761.4	30.03	762.7	70.2	21.2	59	sw.			6		1			0	0		
Hernosand	29.95	760.6	30.00	761.9	70.5	21.4	50	s.			6		0			0	0		
Stockholm	29.98	761.4	30.15	765.9	76.6	24.8	40	ssw.			2		6			0	0		
Wisby	30.13	765.2	30.19	766.7	64.8	18.2	73	nw.			2		3			0	0		
Sub-series.																			
Upsala	30.04	763.0	30.13	765.2	73.4	23.0	41	sw.	11.9	5.3			2	wsw.	wsw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.70	729.0	30.08	764.0	72.3	22.4	51	n.			2		1			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			29.95	760.7	72.5	22.5	59	n.	17	7.5			6		n.	0	0		The Observatory.
Valona			30.11	764.9	81.5	27.5		w.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.83	757.6	82.4	28.0	52	sw.			2		2 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.79	756.7	29.87	758.7	70	21.1	84	sw.	3	1.3			10 n			0.22	5.6	light rain	J. O. Barnes.
Alpena, Michigan	29.20	741.7	29.85	758.2	65	18.3	90	ne.	8	3.6			10 s		e.	0.81	20.6	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.82	757.4	62	16.7	46	ne.	6	2.7		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.26	692.4	30.05	763.3	65	18.3	58	sw.	6	2.7		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.88	733.5	30.03	762.7	67.0	19.4	76	calm	0	0		5 c	0	sw.		0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	69	20.6	90	sw.	8	3.6		4 c	0			1.40	35.6	fair	Jas. M. Watson.
Augusta, Georgia	29.85	758.2	30.04	763.0	69.0	20.6	90	w.	1	0.4		5 k	0	w.		0	0	fair	John Healy.
Baltimore, Maryland	29.93	760.2	29.98	761.5	70	21.1	79	nw.	4	1.8		4 k	0	w.		1.26	32.0	fair	Geo. W. Felger.
Barnegat City, New Jersey	29.94	760.5	29.96	761.0	72.0	22.2	90	sw.	8	3.6		0	3 k; hz		sw.	0.47	11.9	clear	G. A. Hill.
Behring Id., Behring Sea	29.79	756.7	29.81	757.2	39.7	4.3	89	s.	23	10.3			fg			0	0	dense fog	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.44	722.4	29.98	761.5	72.0	22.2	90	se.	2	0.9		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.27	692.6	30.04	763.0	66	18.9	39	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana																			T. Gibson.
Bismarck, Dakota	28.17	715.5	29.93	760.2	74	23.3	82	s.	4	1.8		0	c			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.89	759.2	29.92	760.0	67.5	19.7	93	sw.	16	7.2		0	0			0.56	14.2	clear	J. T. Elker.
Boise City, Idaho	27.17	690.1	29.95	760.7	59	15.0		w.	3	1.3		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.70	754.4	29.85	758.2	67.0	19.4	97	s.	12	5.4			10s; sk		sw.	0.86	21.8	cloudy	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.98	761.5	71.0	21.7	100	e.	3	1.3			10 n		e.	3.07	78.0	light rain	E. C. Imlay.
Buffalo, New York	29.13	739.9	29.87	758.7	65.9	18.8	85	s.	8	3.6			10 s		s.	1.28	32.5	cloudy	W. Finn.
Buford, Fort, Dakota	27.99	710.9	29.95	760.7	73	22.8	76	nw.	2	0.9		0	0			0	0	clear	A. Schneider.
Burlington, Vermont																			D. N. Farnell.
Cairo, Illinois	29.60	751.8	29.99	761.7	69.7	20.9	86	nw.	8	3.6		2 c	0	w.		0	0	clear	W. H. Ray.
Cape Henry, Virginia	29.95	760.7	29.97	761.2	74.0	23.3	90	s.	8	3.6		0	7 ks		s.	0.41	10.4	fair	A. K. Alderson.
Cape May, New Jersey	29.93	760.2	29.96	761.0	68.0	20.0	93	s.	8	3.6		1 c	0			1.71	43.4	clear	W. E. Smith.
Cape Mendocino, California	29.37	746.0	30.05	763.3	54	12.2	80	nw.			2	2 k	0	nw.		0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	79	26.1	88	w.	5	2.2		0	8 n		w.	0.07	1.8	light rain	G. W. Davis.
Charleston, S. Carolina	29.95	760.7	30.00	762.0	80	26.7	67	calm	0	0		8 c	0	w.		0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.17	740.9	30.00	762.0	70.0	21.1	70	nw.	3	1.3		5 c	fg.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.22	742.2	30.04	763.0	67.0	19.4	78	w.	5	2.2		9 cs	0	sw.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.24	615.7	29.98	761.5	54.3	12.4	77	nw.	6	2.7		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.25	742.9	29.94	760.5	55.9	13.3	91	n.	4	1.8			10 s			0.05	1.3	cloudy	John Laurens.
Chincoteague, Virginia	29.95	760.7	29.97	761.2	73	22.8	90	se.	5	2.2		6 k	2 ks			0.22	5.6	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.28	743.7	29.93	760.2	66.5	19.2	86	w.	3	1.3		4 ck	5 k		w	inap.	inap.	cloudy	L. Dunne.
Cleveland, Ohio	29.16	740.7	29.88	758.9	62.5	16.9	86	s.	12	5.4			10 s		sw.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.00	762.0	69	20.6	90	e.	1	0.4		5 k	0			0.11	2.8	fair	T. J. Kenan.
Columbus, Ohio	29.07	738.4	29.91	759.7	63	17.2	84	s.	2	0.9		0	6 ks		sw.	0.20	5.1	fair	D. Cuthbertson.
Concho, Fort, Texas	28.12	714.2	29.99	761.7	68.0	20.0	84	calm	0	0		0	0			0	0	clear	J. McGlone.
Davenport, Iowa	29.32	744.7	29.96	761.0	64	17.8	90	calm	0	0		5 cs	fg.			inap.	inap.	fair	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.85	758.2	65	18.3	60	se.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.35	720.1	30.09	764.3	57	13.9	77	ne.	4	1.8		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.50	647.7	29.94	760.5	64	17.8	65	ne.	6	2.7		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del	29.96	761.0	29.98	761.5	70	21.1	90	s.	7	3.1		0	2 k			1.32	33.5	clear	T. S. Townsend.
Denver, Colorado	24.91	632.7	29.95	760.7	62.0	16.7	70	s.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.16	740.7	30.04	763.0	60	15.6	87	calm	0	0		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.15	740.4	29.84	757.9	62.0	16.7	84	w.	3	1.3			10 s			0.01	0.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.50	698.5	30.02	762.5	70	21.1	90	s.	7	3.1		0	5 ks		e.	0	0	fair	D. J. Carr.
Dubuque, Iowa	29.28	743.7	29.96	761.0	61.2	16.2	85	ne.	2	0.9		4 k	fg.	nw.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.23	742.4	29.96	761.0	65	18.3	73	sw.	2	0.9		0	hz.			0	0	clear	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho																			H. R. Boynton.
Eastport, Maine	29.99	761.7	30.06	763.5	53.0	11.7	93	ne.	6	2.7			fg.		ne.	0	0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.31	693.7	29.98	761.5	65	18.3	73	sw.	4	1.8		0	0			inap.	inap.	clear	W. J. Cundall.
El Paso, Texas	26.30	668.0	29.89	759.2	73.0	22.8	51	calm	0	0		0	4 s			0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.14	740.1	29.86	758.4	67	19.4	84	s.	6	2.7		2 c	0	w.		0.17	4.3	clear	C. A. Shaw.
Escanaba, Michigan	29.28	743.7	29.93	760.2	62.0	16.7	72	n.	3	1.3		30; ck	0	n.		0	0	clear	George Heathcote.
Galveston, Texas	29.98	761.5	30.02	762.5	80	26.7	79	calm	0	0			10 ks		sw.	0	0	threatening	E. O'C. Macinerney.
Grand Haven, Michigan	29.25	742.9	29.90	759.4	56.0	13.3	90	w.	7	3.1			10n; fg			0.41	10.4	light rain	J. E. Mueller.
Grant, Fort, Arizona					73.4	23.0	27	e.	6	2.7		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.98	761.5	30.00	762.0	76	24.4	85	sw.	16	7.2		3 c	hz.	sw.		0	0	clear	R. M. Crawford.
Helena, Montana	25.92	658.4	30.04	763.0	80	26.7	60	sw.	6	2.7		0	0			0	0	clear	H. W. Dodge.

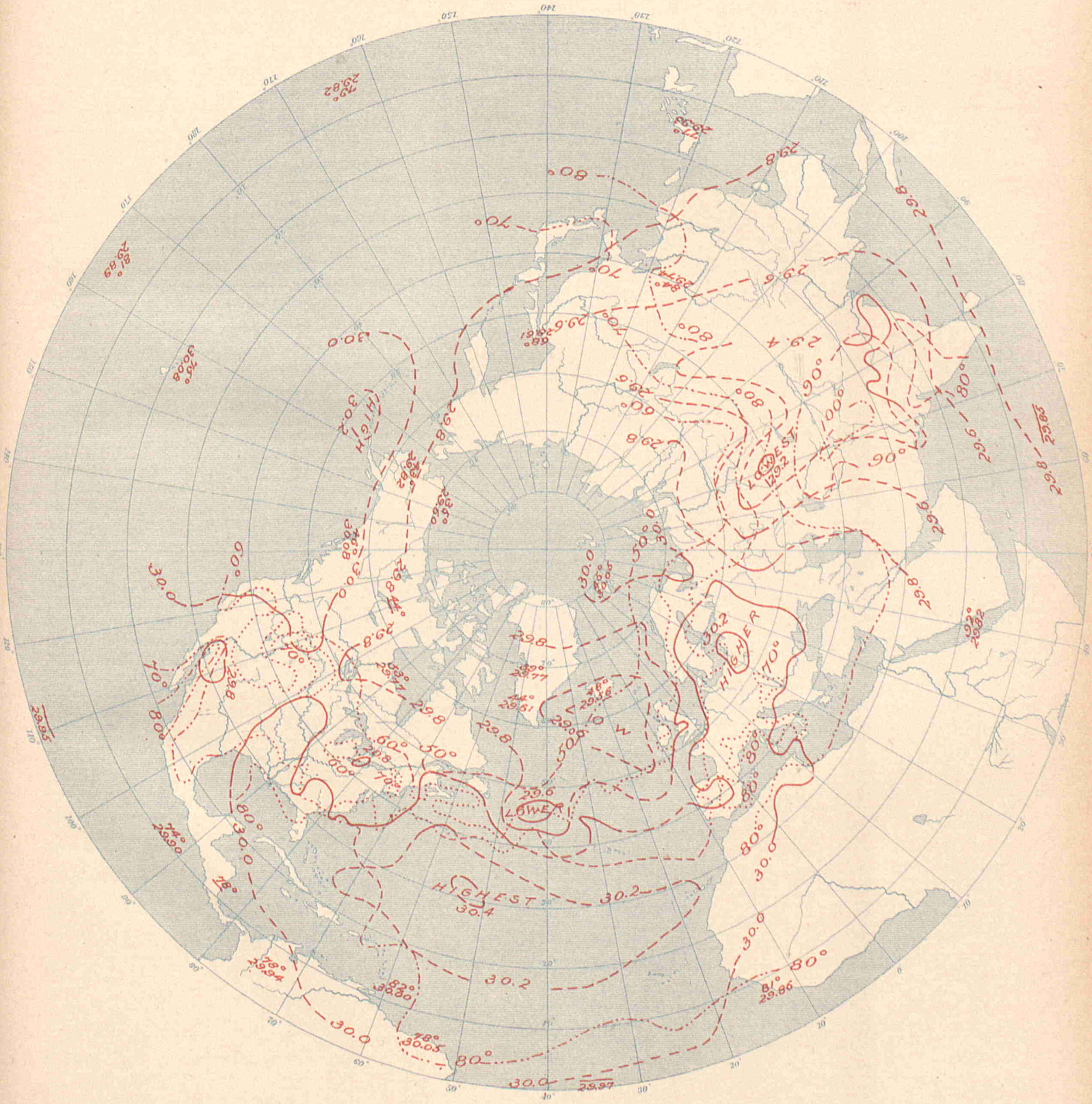
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.66	728.0	30.00	762.0	65.9	18.8	76	se.	6	2.7		0	0			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.13	739.9	29.91	759.7	61.4	16.3	87	n.	2	0.9			10 s		nw.	0.11	2.8	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.98	761.5	30.01	762.2	75.2	24.0	94	s.	11	4.9			10 n		s.	0.26	6.6	light rain	I. A. Reed.
Jacksonville Florida	30.00	762.0	30.04	763.0	81.5	27.5	82	sw.	3	1.3		1 cs	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.33	745.0	29.97	761.2	69.0	20.6	70	calm	0	0		2 cs	0	nw.		0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	86.5	30.3	68	calm	0	0		0	1 k; hz			0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.99	761.7	30.01	762.2	78	25.6	82	sw.	13	5.8		5 c	1 k	sw.	sw.	0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.01	736.8	30.02	762.5	63.3	17.4	92	e.	1	0.4			9 ks		sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	29.96	761.0	65	18.3	73	s.	1	0.4		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.18	741.2	30.05	763.3	65	18.3	78	n.	1	0.4		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.22	742.2	30.04	763.0	62.0	16.7	60	e.	4	1.8		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	68	20.0	90	n.	2	0.9		3 ck	0	w.		0	0	clear	W. U. Simons.
Los Angeles, California	29.50	749.3	29.89	759.2	62	16.7	84	calm	0	0		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.37	746.0	29.92	760.0	65	18.3	90	sw.	6	2.7			10 s		sw.	0.27	6.9	cloudy	L. M. Dey.
Lynchburg, Virginia	29.30	744.2	29.97	761.2	68.8	20.4	69	s.	1	0.4		hz.	0			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.26	743.2	29.90	759.4	61.5	16.4	70	n.	2	0.9		8c; cs	0			0.02	0.5	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.98	761.5	29.99	761.7	78.0	25.6	69	w.	5	2.2		6 cs	0	w.		0	0	fair	William Daly.
Maginnis, Fort, Montana	25.71	653.0	30.04	763.0	70	21.1	32	s.	13	5.8		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.24	742.7	29.96	761.0	63	17.2	68	w.	1	0.4		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.67	753.6	30.00	762.0	70	21.1	84	calm	0	0		0	3 s		sw.	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.21	741.9	29.95	760.7	60	15.6	87	ne.	6	2.7			10s; fg		ne.	0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.97	761.2	30.01	762.2	77	25.0	83	sw.	3	1.3			10 s		sw.	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.75	755.6	29.98	761.5	70	21.1	77	w.	1	0.4		9ck; he	0	w.		0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.01	736.8	29.98	761.5	63	17.2	73	sw.	6	2.7		0	0			0	0	clear	H. White.
Mt. Washington, N. H.	23.83	605.3	29.95	760.7	51.0	10.6	100	se.	60	26.8			10n; fg		se.	0.20	5.1	light rain	S. W. Beall.
Nashville, Tennessee	29.42	747.3	29.98	761.5	66.5	19.2	87	sw.	2	0.9		4 ck	0	w.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.78	756.4	29.89	759.2	70	21.1	84	sw.	5	2.2		0	6 k		sw.	0.57	14.5	fair	J. H. Sherman.
New London, Connecticut	29.90	759.4	29.95	760.7	70	21.1	79	sw.	8	3.6		7 k	0	sw.		1.26	32.0	fair	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.00	762.0	79.5	26.4	85	sw.	5	2.2		1 ck	8 ks		sw.	0.02	0.5	cloudy	M. Herman.
New York, New York	29.78	756.4	29.95	760.7	67	19.4	90	sw	6	2.7		0	fg.			0.63	16.0	clear	G. E. Franklin.
Norfolk, Virginia	29.95	760.7	29.98	761.5	76.2	24.6	82	sw.	5	2.2		3 cs	hz.	w.		0.73	18.5	clear	Wm. Davis.
North Platte, Nebraska	27.20	690.9	30.00	762.0	68.6	20.3	82	se.	4	1.8		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.14	765.5	30.18	766.6	48.0	8.9	56	n.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.93	734.8	30.07	763.8	67.9	19.9	77	calm	0	0		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.58	751.3	29.60	751.8	34.6	1.4	99	ese.	12	5.4			10 s		s.	0	0	cloudy	P. H. Ray.
Oswego, New York	29.53	750.0	29.85	758.2	68.5	20.3	87	se.	1	0.4		0	9 ks		se.	0.55	14.0	cloudy	J. G. Linsley.
Palestine, Texas	29.52	749.8	30.00	763.5	75.0	23.9	90	calm	0	0		0	6 s			0.09	2.3	fair	J. W. Byram.
Pensacola, Florida	30.00	762.0	30.03	762.7	77.0	25.0	89	se.	2	0.9			10 n			0.02	0.5	light rain	M. McGauran.
Philadelphia, Pa	29.88	758.9	29.98	761.5	68	20.0	100	se.	4	1.8			10s; fg		se.	1.57	39.9	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.17	461.5	29.99	761.7	40	4.4	59	n.	4	1.8		0	hz.			0	0	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.13	739.9	29.92	760.0	64.5	18.1	90	s.	6	2.7			10 ks		w.	0.55	14.0	cloudy	W. A. Reid.
Poplar River, Montana	27.86	707.6	29.96	761.0				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.11	739.4	29.78	756.4	60.0	15.6	93	sw.	8	3.6			10 s		sw.	1.40	35.6	cloudy	M. H. Perry
Portland, Maine	29.88	758.9	29.93	760.2	59.5	15.3	93	e.	13	5.8			10 n		e.	0.21	5.3	light rain	W. W. Eichelberger
Portland, Oregon	30.06	763.5	30.13	765.3	55.0	12.8	83	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					77.3	25.2	82	sw.	7	3.1		7 cs	hz.	w.		0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.81	630.2	29.83	757.7	58.8	14.9	30	sw.	2	0.9		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.89	759.2	29.92	760.0	65.5	18.6	92	s.	18	8.0		0	fg.		sw.	0.30	7.6	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.60	751.8	29.95	760.7	82	27.8	49	n.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGaun.
Roseburg, Oregon	29.58	751.3	30.13	765.3	58.5	14.7	78	nw.	2	0.9			10 k		w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.86	758.4	29.93	760.2	61.5	16.4	78	se.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.39	746.5	29.98	761.5	66.0	18.9	90	nw.	7	3.1		3 c; k	2 s	w.	w.	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.79	756.7	29.82	757.4	43	6.1	93	sw.	20	8.9			10 n			0.13	3.3	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.15	740.4	29.99	761.7	68.0	20.0	73	nw.	3	1.3		1 ck	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.04	737.6	29.89	759.2	64	17.8	90	s.	7	3.1		5 cs	0	n.		0	0	fair	C. B. Dilley
Salt Lake City, Utah	25.64	651.2	29.86	758.4	69	20.6	33	calm	0	0		2 k	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.80	756.9	29.86	758.4	63.7	17.6	92	s.	6	2.7			fg.		s.	0	0	dense fog	A. C. Dobbins.
Sandy Hook, New Jersey	29.92	760.0	29.95	760.7	69.0	20.6	84	sw.	11	4.9		1 k	0	sw.		1.08	27.4	clear	B. A. Blundon.
Sanford, Florida	30.01	762.2			84	28.9	74	sw.	3	1.3		6 k	0	w.		0.39	9.9	fair	J. B. Marbury.
San Francisco, California	29.93	760.2	30.00	762.0	54.5	12.5	90	sw.	9	4.0			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.94	760.5	30.03	762.7	80	26.7	56	w.	4	1.8		2 c	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.49	672.8	30.00	763.5	55	12.8	53	w.	0	2.7		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.75	755.6	29.98	761.5	72.8	22.7	71	w.	4	1.8			10 ks		w.	0.03	0.8	cloudy	L. A. Welsh.
Sill, Fort, Indian Territory	28.84	732.5	30.04	763.0	68	20.0	90	e.	2	0.9		0	3 s		n.	0.86	21.8	clear	W. M. Mattingly.
Sitka, Alaska	30.02	762.5	30.08	764.0	45.5	7.5	76	ne.	4	1.8		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.57	751.1	30.03	762.7	68.5	18.6	84	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.97	761.2	30.01	762.2	76.3	24.0	73	w.	2	0.9		6 cs	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.08	713.2	30.12	765.0	58	14.4	60	n.	1	0.4		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.31	744.5	29.98	761.5	63.5	17.5	92	n.	4	1.8			fg.			0.03	0.8	dense fog	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	27.05	687.1	29.97	761.2	67	19.4	90	calm	0	0		0	0			0	0	clear	A. J. Warren.
Thomas, Camp, Arizona					75	23.9	50	calm			0	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.18	741.2	29.86	758.4	65	18.3	84	w.	3	1.3		10 cs	0	sw.		0.04	1.0	cloudy	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	30.21	767.3	30.23	767.8	50	10.0	71	sw.	20	8.9			10 ks			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					68	20.0	31	sw.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.76	755.9	30.02	762.5	72.0	22.2	84	ne.	1	0.4			10 n			0.40	10.2	light rain	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambier.
Washington, D. C.	29.88	758.9	29.99	761.7	67.5	19.7	96	calm	0	0			fg.			1.15	29.2	dense fog	B. M. Purssell.
West Las Animas, Colorado	26.14	663.9	29.91	759.7	61.9	16.6	78	w.	3	1.3		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.96	761.0	30.01	762.2	74.0	23.3	71	w.	1	0.4		0	0			0.57	14.5	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.77	730.7	30.05	763.3	64	17.8	78	sw.	6	2.7		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.61	752.1	29.75	755.0	81.5	27.5	81	se.	22	9.8		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.08	764.0	80	26.7	76	calm	0	0			10 s		e.	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.			2	5 ck	5 k	e.		1.100	27.9	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	78	25.6	89	calm			0	3 c	7 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	90	ne.			1	c	ks		e.	0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos
York Factory, B. A.	29.71	754.6	29.77	756.1	53.0	11.7	93	sw.	9	4.0		1 cf	0	sw.		0	0	fair?	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 44° 05′, E. 13° 25′	30.05	763.3	77	25.0	86	nw.			1		1	nw.				sm'h		blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.24	768.1	77	25.0	86	ese.			3		4	ese.						d. clouds.
H. M. S. Gannet, N. 50° 20′, W. 4° 09′	29.85	758.2	58	14.4	94	s.			4		10					4	sw.	drizzling.
H. M. S. Iris, Port Said, Egypt	29.87	758.7	77	25.0	86	wnw.			3		0							blue sky.
S. S. Monarch, N. 45° 12′, E. 14° 18′	29.98	761.5	76	24.4		calm			0		2							d. clouds.
H. M. S. Minotaur, Corcubion Bay, Spain	30.02	762.5	64	17.8	83	sse.			4		7	s.						misty.
H. M. S. Opal, N. 4° 07′, W. 8° 07′	30.08?	764.0?	81	27.2	74	se.			3		3	ese.				2	sse.	d. clouds
H. M. S. Tyne, N. 7° 41′, W. 13° 38′	30.08?	764.0?	80	26.7	82	sse.			1		6	sse				1	sse.	d. clouds.
H. M. S. Tenedos, White Bear Bay, N. F.	30.06	763.5	63	17.2	89	s.			1		6	se.				1	se.	d. clouds.
H. S. M. S. Eugenie. N. 36° 32′, W. 6° 36′	30.08	764.0	71.8	22.1	87	sw.			1		2							d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	29.84	757.9	65	18.3	94	se.	12	5.4			10		se.	0.5	13.			misty.
U. S. S. Constellation, N. 37° 45′. W. 74° 54′*	30.03	762.7	74	23.3	86	se.			3		2		calm			mod.	se.	clear.
U. S. S. Dale, N. 38° 04′, W. 73° 17′	29.96	761.0	69	20.6	100	sse.			1		2					cross	sse.	fair.
U. S. S. Lancaster, N. 59° 16′, E. 18° 56′	30.24	768.1	60	15.6	94	sw.			2		5		calm			sm'h		foggy
U. S. S. Nipsic, N. 35° 00, W. 45° 26′*	30.28	769.1	76	24.4	82	wnw.			1		2		e.			sm'h		fair.
U. S. S. Portsmouth, Newport, R.I.	29.93	760.2	67	19.4	95	ssw.			5		10							cloudy.
U. S. S. Powhatan, N. 35° 52′. W. 75° 13′	29.95	760.7	78	25.6	95	wsw.			2		2					long	se.	clear.
U. S. S. Saratoga, Newport, R.I.	29.93	760.2	68	20.0	95	sw.			3		10		sw.	light	light	sm'h		foggy.
U. S. S. Vandalia, 32° 29′, W. 74° 15′	30.07	763.8	80	26.7	91	wsw.			2		5		sw.					fair.
U. S. S. Yantic, St. Johns, N.F.	29.99	761.7	59	15.0	94	nw.			2		10							cloudy.
Cottica, N. 32° 48′, W. 54° 01′	30.44	773.2	76	24.4	84	calm			0		2							blue sky.
May Hulse, N. 21° 51′, W. 37° 00′	30.26	768.6	79.2	26.2	78	ne.			4		2							blue sky.
S. S. St. Kilda, N. 20° 11′, W. 60° 03′	30.20	767.1	80.4	26.9	78	e.			4		4							d. clouds.
H. P. M. S. Rio Lima, N. 29° 22′. W. 18° 11′	30.24	768.2	77.0	25.0	71	ne.			1		0					1		blue sky
S. S. Illinois, off Ballycottin, Ireland	29.70	754.4	57	13.9		sw.			3		10		ssw.					overcast.
S. S. Lord Gough, N. 49° 38′ W. 38° 27′	29.70	754.4	56	13.3		ssw.			2		10		sw.	6 h'r	6 h'r	mod.	n.	overcast
S. S. Ohio, N. 41° 03′, W. 53° 10′ †	30.20	767.1	74	23.3		w.			5		10		wsw.	o	o	mod.	w.	cloudy.
S. S Pennsylvania, N. 47° 44′, W. 29° 28′†	29.97	761.2	64	17.8		n.			4		7		n.	o	o	mod.	n.	cloudy.
S. S. Scandinavian, N. 48° 49′, W. 42° 49′	29.60	751.8	52	11.1		ne.			4		10		n.			light	var.	misty.
S. S. Grecian, N. 55° 27′ W. 9° 58′			56	13.3	87	s.			3		7		s.	o	o	sm'h		cloudy.
S. S. Nova Scotian, N. 39° 51′, W. 68° 33′			72	22.2		ssw.			3		8		sw.			sli't	e.	fair.
S. S. Polynesian, Montreal, Canada	29.94	760.5	74	23.3		ne.			1		7		n.	o	o	sm'h	s.	cloudy.
S. S. Prussian, N. 42° 20′, W. 70° 55′	29.87	758.7	66	18.9		sw			4		1		sw.	9 h'r	9 h'r			
S. S. Manitoban, Quebec, Canada	30.04	763.0	86	30.0	88	e.			1		3		e.	o	o			
S. S. Sardinian, N. 50° 57′, W. 40° 48′	29.71	754.6	50	10.0		nnw.			4		10		sw.	10 h'r	10 h'r	mod.	wsw.	overcast.
S. S. Jason, N. 38° 44′. W. 69° 37′			70.7	21.5		sse.			3		6k					3	se.	cloudy.
S. S. Alvo, Kingston, Jamaica, W. I*	30.06	763.5	79	26.1		calm			0		6		calm	2 h'r	2 h'r			fine.
S. S. Andes, N. 39° 20′, W. 74° 00′ *†	29.86	758.4	80	26.7		nw.			6		6			3 h'r	3 h'r	h'vy	var.	gale.
S. S. Alene, N. 11° 43′, W. 82° 12′ †	30.00	762.0				n.			3		2		ne.	o	o	mod.	ne.	hazy.
S. S. Dorian, Genoa, Italy	30.15	765.8				calm			0					o	o			
S. S. Furnesia, New York, N. Y. †	29.92	760.0	73	22.8	90	ssw.			2		0			7 h'r	h'r			clear.
S. S. Jerome, N. 25° 31′, W. 56° 36′			77	25.0	100	e.			6		7		se.	½ h'r	½ h'r	r'gh	se.	cloudy.
S. S. Llandaff City, N. 50° 01′, W. 29° 22 †	29.72	754.9	62	16.7		w.			3		6		w.	o	o	sm'h		cloudy.
S. S. Gallia, N. 40° 31′, W. 68° 28′	29.90	759.4	66	18.9	65	ssw.			5		0			o	o	sm'h		hazy.
S. S. Pavonia, off Kinsale, Ireland	29.67	753.6	59	15.0	88	sw.			4		9		sw.	12 h'r	12 h'r	mod.	sw.	cloudy
S. S. Scythia, N. 50° 32′, W. 18° 50′	29.63	752.6	59	15.0	88	n.			3		6?		n.	1 h'r	1 h'r			clear?
S. S. France, N. 45° 26′ W. 35° 51′†	29.75	755.7	59.0	15		sse.			6		10		sw.	rain	rain	r'gh	nw.	threatening.
S S. Abyssinia, N. 47° 37′, W. 39° 20′	29.56	750.8	59	15.0	?	s.			7		10		ssw.	4 h'r	4 h'r	mod.	sw.	
S. S. Wisconsin, N. 41° 58′, W. 62° 06′			66	18.9		s.			2		10		s.	o	o	sli't	sse.	foggy.
S. S. Bohemia, Hamburg, Germany						s.			2		3		s.	o	o			fair.
S. S. Gellert, N. 48° 40′, W. 30° 12′	29.86	758.4	61	16.1	77	s.			2		4		s.	o	o	long	n.	fair.
S. S. Lessing, N. 45° 57′, W. 44° 02′	29.41	747.0	68	20.0		sw.			6		5		s.	4 h'r	4 h'r	cross	wsw.	rainy.
S. S. Rugia, New York, N. Y	29.94	760.5																
S. S. Silesia, Hamburg, Germany	30.06	763.5	73.4	23.0		ese.			2		3		e.	o	o			fair.
S. S. City of Berlin, N. 44° 13′, W. 54° 16′	30.02	762.5	56	13.3	87	nw.			3		fg.			8 h'r	8 h'r	mod.	w.	dense fog.
S. S. City of Paris, N. 51° 17′, W. 13° 35′*	29.58	751.3				nne.			4		10		n.	4 h'r	4 h'r	mod.	ne.	hazy.
S. S. Mentmore, N. 51° 37′, W. 14° 07′*†.	29.76	755.9				ne.			5		10		e.			mod.		misty.
S. S. Bulgarian, N. 51° 02′, W. 23° 12′*	29.83	757.7				n.			3		9		nne.	2 h'r	2 h'r	light	n	cloudy.
S. S. Sirius, N. 33° 20′, W. 16° 20′ *	30.09	764.3				sse.			3		1		sse.	o	o	sli't	s.	clear.
S. S. City of San Antonio. Fernandina, Florida*†	30.04	763.0	83	28.3		wsw.			2		0							clear.
S. S. Colorado, New York, N.Y †	30.00	762.0	70	21.1		sw.			2		2		sw.	10 h'r	10 h'r			clear.
S. S. Chalmette, N. 29° 12′ W. 89° 10′ †	30.13	765.3	78	25.6		ssw.			4		4		ssw.	o	o	sm'h		fair.
S. S. Lone Star, N. 33° 55′, W. 74° 50′ †	30.07	763.8	82	27.8		s.			2		2		calm	o	o	mod.	var.	clear.
S. S. Alleghany, N. 42° —′, W. (71° 40′?) †	29.94	760.5	74	23.3		sw.			5		5		sw.	18 h'r	18 h'r	long	se.	stormy.
S. S. Denmark, N. 45° 50′, W. 33° 00′ †	30.02	762.5	62	16.7		s.			3		8		s.	o	o	sli't	nne.	cloudy.
S. S. Egypt, N. 51° 48′, W. 8° 15′	29.74	755.4	56	13.3		ssw.			4		10		s.	5 h'r	5 h'r	mod.	s.	hazy.
S. S. England, off Bardsey, Wales	29.73	755.1				sw.			4		10		sw.	o	o			foggy.
S. S. Erin, N. 50° 50′, W. 1° 12′	29.91	759.7	62	16.7		wsw.			6		7		wsw.	4 h'r	4 h'r	r'gh	wsw.	fair
S. S. Greece, N. 40° 19′, W. 69° 59′	29.99	761.7	66	18.9	94	s.			4		6		s.	4 h'r	4 h'r	light	ssw.	fair.
S. S. Helvetia, N. 43° 04′, W. 44° 46′	29.93	760.2	70	21.1	95	wnw.			5		10		wnw.	1 h'r	1 h'r	long	w.	cloudy.
S. S. Holland, N. 40° 29′ W. 68° 54′	29.93	760.2	73	22.8		ssw.			3		5		ssw.	1 h'r	1 h'r	mod.	s.	hazy.
S. S. The Queen, N. 41° 03′, W. 52° 06′	30.10	764.5	80	26.7	51	w.			5		8		w.	o	o	r'gh	w.	hazy
S. S. Braunschweig, N. 41° 36′ W. 47° 30′	29.75	755.6	67.0	19.4	100	sw.			6		10		sw.	2 h'r	2 h'r	cross	sw.	rainy.
S. S. Elbe, N. 51° 44′, E. 2° 12′	30.00	762.0	61	16.1	88	s.			2		7		se.	o	o	sm'h	sw.	hazy.
S. S. Habsburg, N. 42° 14′, W 45° 07′	30.04	763.0				sw.			6		10		sw.	o	o	long	w.	cloudy.
S. S. Main, N. 49° 43′, W. 15° 41′	29.60	751.8	61	16.1		sw.			1		5		w.	4 h'r	4 h'r	mod	w.	fair.
S. S. Neckar, N. 41° 24′ W. 60° 51′	30.24	768.1	70.0	21.1	91	wsw.			2		2		wsw.	o	o	sm'h	wsw.	clear.
S. S. Oder, N. 42° 19′, W. 44° 50′	29.95	760.7	72	22.2		sw.			5		10		wsw.	1 h'r	1 h'r	r'gh	wsw.	squally.
S. S. Ohio, N. 49° 56′, W. 5° 12′	29.94	760.5				s.			3		6		s.	5 h'r	5 h'r	light	s.	fair.
S. S. Salier, N. 53° 30′, E. 7° 15′*	30.01	762.2	61	16.1	88	sw.			5		6		sw.	o	o	sm'h	sw.	fair
S. S. Strassburg, N. 52° 17′, E. 3° 06′	29.99	761.7	65.5	18.6	84	s.			3		8		s.	5 h'r	5 h'r	3	s.	cloudy.
S. S. Werra, N. 40° 17′, W. 67° 10′	30.08	763.9	73	22.8		ssw.			2-3		4		s.	o	o	mod.	ssw.	fair.
S. S. Weser, N. 44° 59′, W. 41° 04′	29.70	754.4				sw.			7		10		w.	7 h'r	7 h'r	hv'y	w.	heavy rain.
S. S. City of Augusta, Savannah, Ga †	30.07	763.8				nnw.			3		6		nnw.	o	o			fair.
S. S. Colon, N. 19° 34′, W. 74° 25′ †	30.11	764.8	83	28.3	87	e.			3		3		e.	o	o	small	e.	clear.
S. S. Muriel, off Barnegat, N.J.	30.01	762.2	72	22.2		w.			3		10		wsw.	o	o	long	sse.	overcast.
S. S. Orinoco, New York, N. Y†	29.82	757.4	70	21.1		wsw.			5		1		wsw.	15 h'r	15 h'r			hazy.
S. S. Rhynland, N. 40° 27′, W. 73° 00′	29.93	760.2	64	17.8	83	wsw.			4		3		sw.	3 h'r	3 h'r	chop	ssw.	hazy.
S. S. Pennland, N. 47° 03′ W. 30° 03′	30.02	762.5	69	20.6	75	nnw.			6		3		nw.	10 h'r	10 h'r	high	var.	clear.
S. S. Switzerland, N. 50° 20′, W. 2° 48′†	30.02	762.5				s.			4		10		s.	4 h'r	4 h'r	long	w.	misty.
S. S. Waesland, N. 43° 20′, W. 43° 28′	29.91	759.7	72	22.2		wsw.			6		10		wnw.	2 h'r	2 h'r	r'gh	wsw.	rainy.
S. S. P. Caland, N. 51° 55′, E. 4° 00′	30.03	762.7	68.0	20	79	sw.			2		7		ssw.					fair.
S. S. Leerdam, N. 50° 05′, W. 23° 28′	29.79	756.7	60	15.6	82	nw.			4		8		nw.	2 h'r	2 h'r	mod.	sw.	cloudy.
S. S. W. A. Scholten, N. 41° 20′ W. 65° 52′	30.04	763.0	65.0	18.3	97	ssw.			4		7		ssw.	15 h'r	15 h'r	4	ssw.	fair.
S. S. Belize, Savanilla, U.S.C*	29.85	758.2	84	28.9		nne.			1		6		ne.	o	o	sm'h		fair.
S. S. Valencia, Puerto Cabello, Venezuela †	30.16	766.1	81	27.2	83	ene.			2		3		ene.	1 h'r	1 h'r			clear.
S. S. State of Georgia, N. 49° 40′, W. 38° 47′ †	29.84?	757.9?	53	11.7		se.			3		10		sw.	6 h'r	6 h'r	var.		rainy.
S. S. State of Indiana, N. 50° 43′, W. 34° 55′*†	29.75	755.6	55	12.8		sw.			1		9		sw.	1 h'r	1 h'r	sm'h		light rain.
S. S. Thingvalla, N. 42° 13′, W. 49° 58′†	30.05	763.3	57.2	14.0		wnw.			3		10			2 h'r	2 h'r	mod.	wnw.	overcast.
S. S. Lake Huron, N. 49° 06′, W. 67° 00′	29.96	761.0	48	8.9		ene.			2		0			o	o	sm'h		clear.
S. S. Daniel Steinmann, Montreal, Canada.†	29.91	759.7	71	21.7		ne.			4		4		ene.	o	o			fair.
S. S. Aries, N. 40° 05′, W. 73° 45′*†	30.00	762.0				wsw.			4		0			o	o	long	se.	clear.
S. S. Norman, N. 41° 20′, W. 71° 00′	29.80	756.9				s.			5		0			3 h'r	3 h'r	r'gh	ssw.	dense fog.
S. S. Saxon, Philadelphia, Pa†	29.97	761.2				sw.			4		10							threatening.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
S. S. Adriatic, N. 40° 57′, W. 65° 48′*†	30.24	768.1	71	21.7		ssw.			5		8		ssw.	½h'r	½h'r	sli't	ssw.	hazy.
S. S. Celtic, N. 49° 18′, W. 27° 00′ †	29.86	758.4	60	15.6		n.			3		10		n.	0	0	mod.	n.	overcast.
S. S. Antonio Lopez, Cadiz, Spain	30.11	764.8	69	20.6	85	ssw.			3		3			0	0			fair.
Schr. Abbie H. Gheen, Jersey City, N. J †	30.03	762.7	70	21.1		wsw.			3									foggy.
Bg. Abbie Clifford, N. 38° 24′ W. 65° 37′†	30.19	766.8	78	25.6		s.			6		5		s.	sh'rs	sh'rs	r'gh	s.	fair.
Bk. Aquidneck, N. 4 38′, W. 28° 48′*†	30.00	762.0				sse.			3				sse.	0	0	h'vy	sse.	clear.
Schr. Anna A. Holton, N. 25° 25′, W. 78° 34′ *†.	30.12	765.0	87	30.6		sse.			3		2		s.	0	0	sm'h	s.	clear.
Bk. Alpheus Marshall, N. 0° 49′, W. 36° 29′ *†	29.87	758.7				se.			3		2		se.	0	0			clear.
Schr. Authur Burton, Parkers Flats, Me†	29.97	761.2				ese.			2		10			2 h'r	2 h'r			foggy.
Bk. Aureola, Queenstown, Ireland†	29.80	756.9	64	17.8		s.			5		10		s.	2 h'r	2 h'r			hazy.
Bk. Arda, Sackville, N. B.						nw.			2		5		ssw.	0	0			fair.
S. S. Burswell, N. 36° 18′, W. 3° 22′*†	30.09	764.3	79	26.1		calm			0		4		ene.	0	0	sm'h		light fog.
Bg. Belle of the Bay, Apalachicola, Fla†	30.01	762.2				sw.			4		8		w.	rain	rain			threatening
Bk. Bayonaise, N. 21° 22′, W. 37° 30′			77.0	25		ene.			3		3		ene.	0	0	rg'h	ene.	fine.
Schr. C. R. Flint, N. 26° 30′, W. 89° 28′†	30.10	764.5	82	27.8		sse.			2		2		s.	0	0	sm'h		fair.
Bk. Cato, N. 67° 40′, E. 41° 50′*†	30.07	763.8				nne.			2		1		ne.			sm'h	nne.	fair.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I*†	30.05	763.3	81	27.2	87	ene.			2		2		e.	0	0			clear.
Bkt. David A. Preston, Port Royal, S. C.						se.			2		5			0	0			
S. E. J. Spicer, New York, N. Y.	29.89	759.2	68	20 0	100	wsw.			5		fg.		ese.	12 h'r	12 h'r			clear.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′*†	29.74	755.4	65	18.3		ssw.			4		5		ssw.	12 h'r	12 h'r			gloomy.
U. S. Fish Com. S. S. Fish Hawk, Back river, Va†	30.05	763.3	77	25.0	100	sw.			2		5		sw.	0.01	0.3			fair.
S. Festina Lente, N. 45° 35′, W. 56° 23′	30.09	764.3	53	11.7		w.			3		9		w.	0	0	mod.	ssw.	overcast.
Sch. F. E. Waters, N. 26° 46′, W. 77° 04′*†	30.20	767.1				sw.			2					0	0	sm'h		fair.
Bk. George Davis, N. 52° 08′, W. 13° 10′						ese.			2					rain	rain		sw.	covered.
Bk. Gucheon, N. 44° 10′, W. 4° 00′*†	30.13	765.3	68.0	20		sse.			3		3		sse.	0	0	rg'h	wnw	
Bk. Galeon, N. 38° 00′, W. 61° 58′†	30.28	769.1	76	24.4		s.			6		9		s.	light	light	mod.	s.	fine.
Bk. Heinrich & Tonio, N. 40° 29′, W. 69° 54′†	29.95	760.7	67	19.4		ssw.			3		0			0	0	mod.	s.	hazy.
S. Hedwig, off Lussinpiccolo, Austria	30.06	763.4	76.3	24.6	80	wnw.			2		6		nw.	0	0			fine.
Bk. Hattie G. McFarland, New York, N. Y†	29.93	760.2	71	21.7		calm			0		fg.			5 h'r	5 h'r			foggy.
Bk. Harriet S. Jackson, N. 31° 50′, W. 71° 25′						s.			4		4		sw.	½h'r	½h'r	large	sse.	
Bk. Horace Scudder, N. 11° 20′, W. 75° 00′*†	29.90	759.4	80	26.7		ene.			6		3		e.	0	0	h'vy	e.	fine.
Schr. Isabel Alberto, Jacksonville, Fla†	29.97	761.2				w.			1		0			0	0			clear.
Schr. John L. Thomas, Old Providence Island, C. A*†	30.06	763.5	86	30.0		ene.			4		2		ene.	15 mi	nutes			fair.
Bg. John Wesley, N. 5° 46′, W. 22° 20′ *†	29.92	760.0	82	27.8		sse.			4		4		sse.	1½h'r	1½h'r	mod.	sse.	fair.
Schr. Jennie N. Huddell, Delaware Bay, Delaware†	29.98	761.5	75	23.9		s.			1		2		w.	3 h'r	3 h'r			clear.
S. J. W. Gildemeister, N. 8° 15′, W. 25° 00′	30.06	763.5	78.8	26	84	calm			0		10			6 h'r	6 h'r	2	ssw.	overcast.
Bkt. Josephine, N. 40° 15′, W. 73° 48′†	29.92	760.0	71	21.7	74	sw.			4		0			0	0	mod.	sse.	hazy.
Bkt. Kryolith, N. 51° 20′, W. 50° 09′*†	29.98	761.5				nw.			1		fg.			0	0			foggy.
Bg. L. & W. Armstrong, St. Pierre, Martiniuque, WI*†	30.10	764.5				ne.			1		1		ne.	0	0			fine.
Light-house Tender Laurel, off Miami river, Fla†	30.10	764.5	80	26.7		calm			0		0			0	0			clear.
Bg. Lilian, N. 36° 15′, W. 71° 20′†	30.11	764.8	80	26.7		ssw.			5		4		sw.	0	0	r'gh	var.	hazy.
Bk. Louise Adelaide, off Cape May, N. J†	30.01	762.2	70	21.1		ssw.			1		1			3 h'r	3 h'r	long	se.	fair.
Bk. Milo, N. 43° 40′, W. 62° 25′†	30.05	763.3				ssw.			1-2		fg.						sw.	rain & fog.
S. S. Madrid, Baltimore, Md†	29.99	761.7	76	24.4	91	calm			0		1		nw.	6 h'r	6 h'r			fair.
Schr. Minnie A. Bonsall, Weehawken, N. J †	29.94	760.5	70	21.1		w.			2					0	0			clear.
Bgt. Myrtle, N. 22° 40′, W. 68° 23′						ese.			4				se.	0	0	sm'h		fair.
S. S. Mendozo, N. 33° 20′, W. 51° 09′						n.			1		1		n.	0	0	sm'h	se.	clear.
Bk. National Eagle, N. 36° 13′, W. 13° 17′						sw.			4		2		sw.	0	0	sm'h		fair.
Bg. O. C. Clary, Guadeloupe, W. I*†	30.05	763.3				ese.			2									fair.
Bk. Orpheus, N. 39° 25′, W. 67° 45′	30.04	763.0	76	24.4		sse.			4		4 k		s.	0	0	mod.	s.	fair.
Bk. Ottawa, Stockholm, Sweden	30.13	765.3	80	26.7		calm			0		0			0	0			clear.
S. Paramita, N. 41° 09′, W 28° 33′†	30.10	764.5	66	18.9		n.			5		3		n.	0	0	long	nw.	clear.
S. S. Raleigh, Santiago, Cuba†	30.03	762.7	90	32.2														
S. Rudolph, N. 43° 45′, W. 39° 27′			63.5	17.5		sw.			8-9		10		sw.	8 h'r	8 h'r	high	var.	stormy.
Bg. Rising Sun, N. 27° 37′, W. 67° 08′ †	30.20	767.1	84	28.9		s.			4		3		s.	0	0	mod.	s.	
Bk. Rosino, N. 36° 35′, W. 2° 18′			73	22.8		s.			1		0			0	0	sm'h		clear.
Bk. Saga, N. 40° 40′, W. 64° 48′*†	30.12	765.0	75.5	24.2					3-4		2		ssw.	0	0	long	se.	clear.
Bk. Sunbeam, N. 38° 48′, W. 12° 42′†	30.16	766.1	68	20.0	84	sw.			5		5		sw.	0	0	mod.	nw.	fair.
Bk. Southern Belle, N. 28° 20′, W. 66° 45 †	30.25	768.3	80	26.7		se.			3		8			0	0	mod.	e.	cloudy.
S. Sovereign of the Seas, N. 7° 48′, W. 27° 51′ *†	30.16	766.1	82	27.8	87	sse.			1		4		sse.	6 h'r	6 h'r	chop	var.	fair.
S. S. Strathleven, N. 40° 20′, W. 63° 31′	30.20	767.1	77.0	25.0	88	ssw.			4		5		ssw.	1 h'r	1 h'r	4	ssw.	misty.
Bg. Teneriffe, N. 43° 35′, W. 40° 10′ *	29.61	752.1				wsw.			9		10		w.			r'gh		
Bk. Tuck Sing, N. 36° 06′, W. 74° 20′ *†	29.94	760.5				ssw.			3		0			0	0	h'vy	se.	fine.
Schr. Viola Reppard, Kennebec river Me †	29.98	761.5	69	20.6		ese.			3		10		ese.	0	0			foggy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I *†	30.10	764.5	82	27.8		s.			2		3		s.	0	0			clear
Bgt. Sunlight, N. 6° 58′, W. 58° 05′						ese.			4		4		ese.	0	0	mod.	ne.	fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay†	29.88	758.9	52.2	11.2	90	sw.			6		9					5	sw.	squally.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.26	768.6	59	15.0		e.			3		2							blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	29.86	758.4	50	10.0	95	sw.			4-6		10							showery.
U. S. S. Brooklyn, Montevideo, Uruguay*	29.84	757.9	52	11.1	93	ssw.	19	8.5			10		ssw.	0.54	13.7	mod.	ssw.	misty.
U. S. S Galena, Montevideo, Uruguay*	29.92	760.0	51	10.6	100	ssw.			4		10		sw.			mod.	sw.	cloudy.
U. S. S. Quinnebaug, Cougo River, Guinea	30.08	764.0	76	24.4	77	wsw.			2		2		sw.			sm'h		clear.
S. Annie M. Law, S. 29° 55′, E. 13° 19′ *†	30.20	767.1	65	18.3		wnw.			2		0			0	0	mod.	wsw.	clear.
S. David Stewart, Pernambuco, Brazil†	29.89	759.2				sse.			4		1		sse.	rain	rain			
S. Wm. McGilvery, S. 55° 12′, W. 63° 28′ *†	29.70	754.4	40	4.4	100	ne.			4					0	0	sm'h		misty.
S. S. Olbers, S. 8° 55′, W. 34° 48′ †	30.16	766.1	79	26.1	86	se.			5		5		ese.	8 h'r	8 h'	r'gh	ese.	showery.
Bk. Achille F, Montevideo, Uruguay†	29.83	757.7	54	12.2	87	ssw.			5		5		sw.	0	0	sm'h		fair.
Bk. Ceylon, S. 3° 15′, W. 25° 04′ *†	30.16	766.1	84	28.9	91	ese.			5		2		ese.	0	0	mod.	ese.	clear.
Bk. Gray Eagle, S. 4° 27′, W. 35° 21′ *†	29.90	759.4				sse.			0		6		sse.	3 h'r	3 h'r	short	sse.	squally.
H. P. M. S. Douro, S. 4° 28′, E. 11° 48′	30.10	764.6	75.2	24.0	79	sw.			2		10			0	0	1	sw.	overcast.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.73	755.1	77	25.0	77	se.			2		2	s.						d. clouds.
H. M. S. Champion, N. 5° 30′, E. 121° 00′	29.86	758.4	75	23.9	95	ssw.			2		10					3	sw.	showery.
H. M. S. Espiegle, N. 5° 20′, E. 103° 05′	29.82	757.4	79	26.1	91	calm			0		5							d. clouds.
H M. S. Flying Fish, N. 37° 34′, E. 121° 26′	29.70	754.4	75	23.9	90	s.			1		4	sse.						d. clouds.
H. M. S. Magpie, N. 6° 00′, E. 117° 49′	29.90	759.4	83.2	28.4	77	calm			0		9							misty.
H. M. S. Zephyr, N. 35° 27′, E. 139° 39′	29.85	758.2	76	24.4	86	ne.			2		3							d. clouds.
H. P. M. S. Tamega, Macao, China	29.78	756.3	85.1	29.5	88	e.			2		2			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.90	759.4	72.5	22.5	92	e.			2		1		ne.	light	light			clear.
U. S. S. Adams, Pyramid Harbor, Alaska†	30.02	762.5	55	12.8	87	calm			0		10					sm'h		cloudy.
H. M. S. Essex, Honolulu Sandwich Ids	30.08	764.0	75	23.9	72	ne.			2		5					sm'h		fair.
U. S. S. Hartford, N. 1° 00′, W. 159° 20′*	29.82	757.4	80	26.7	87	e.			4		2			0	0	sm'h		clear.
U. S. S. Monocacy, Salee river, Corea	29.85	758.2	70	21.1	90	w.			1		8		calm					cloudy.
U. S. S. Palos, Hong Kong, China	29.65	753.1	88	31.1	76	sw.			1		5		calm					fair.
U. S. S. Richmond, Shanghai, China *	29.67	753.6	79	26.1	95	e.			1		10		e.	0	0			cloudy.
S. S. Coptic, N. 46° 01′, E. 160° 16′	29.93	760.2	50.0	10.0	79	s			5		10		s.	8 h'r	8 h'r	mod.	var.	raining.
S.S. Oceanic, San Francisco, Cal	29.99	761.7	66	18.9	54	sw.			4		5		sw.					fair.
S. S. Columbia, N. 37° 47′, W. 122° 35′††	29.97	761.2	54	12.2	87	nnw.			1		3					sm'h	nw.	misty.
S. S. Oregon, N. 45° 23′, W. 124° 08′	30.22	767.6	57	13.9	87	nnw.			1		0					sm'h		clear.
S. S. Ancon, N. 32° 34′, W. 117° 20′†	29.88	758.9	65	18.3	94	s.			4		10					light	sw.	foggy.
S. S. Queen of the Pacific, Portland, Oregon†	30.15	765.8	53	11.7		se.			1		0			0	0			clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. City of Pekin, N. 44° 40′, E. 168° 25′ †	29.90	759.4	53	11.7	100	s.			6		10		s.	mod.	mod.	large	se.	rainy.
S. S. City of Sydney, N. 3° 12′, W. 165° 00′*†	29.89	759.2	81	27.2	?	ne.			2		6 kn		ne.					fair.
S. S. City of Rio de Janeiro, N. 26° 55′, E. 124° 15′ †	30.01	762.2	81	27.2	91	ssw.			3		5		ssw.	0	0	mod.	ssw.	fair.
S. S. Colima, Panama, Panama†	29.91	759.7	79	25.1	86	nw.			2		8		nnw.	0	0			cloudy.
S. S. San Blas, N. 24° 28′, W. 112° 19′			72	22.2		calm			0		0			0	0	hv'y	se.	clear.
S. S. San José, N. 11° 20′, W. 94° 45′ †	29.90	759.4	74	23.3		nw.			2		5 k		wnw.	0	0	long	sse.	fair.
S. S. Benledi, Shanghai, China			75	23.9	90	ese.			3		8		ssw.	0	0	sm'h		cloudy.
S. Gatherer, N. 33° —′, W. 124° —′ *†	30.05	763.3	65	18.3	78	nw.			6		5		n.	0	0	sm'h	var.	fair.
S. S. Radnorshire, Shanghai, China*†	29.70	754.4				sw.			3		10		s.					rainy.
S. Storm King, N. 0° 21′, W. 112° 20′*†	29.95	760.7				se.			4		1		se.	0	0	sm'h	se.	clear.
S. St. David, N. 33° 08′, E. 136° 31′ *†	29.90	759.4	84	28.9	83	calm			0		4		sw.	3 h'r	3 h'r	light	sw.	hazy.
Bk. Xenia, N. 27° 45′, E. 121° 47′*†	29.96	761.0	82	27.8		se.			1		4		calm	0	0	sm'h	sse.	clear.
H. M. S. Sappho, N. 33° 42′, W. 118° 45′	29.84	757.9	66	18.9	94	ssw.			1		0							misty.
U. S. S. Ranger, N. 13° 07′, W. 88° 37′	29.97	761.2	82	27.8	82	n.			2		5		calm	0	0	sm'h		fair.
S. Henry Failing, Wilmington, Cal†	29.75	755.6	69	20.6		se.			5		5		ese.			cross	ese.	foggy.
S. Grecian, Yokohama, Japan†	29.87	758.7	75	23.9	81	ene.			4		3		ene.	0	0			clear
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W.			55	12.8	68	calm			0		4	w.						d. clouds.
H. M. S. Kingfisher, S. 33° 30′, W. 76° 49′	30.19	766.8	58	14.4		w.			4		10					4	wnw.	overcast.
H. M. S. Nelson, Souva, Feejee Ids	29.81	757.2	72	22.2	100	se.			3		8							d. clouds.
U. S. S. Iroquois, Coquimbo, Chili	30.26	768.6	55	12.8	87	nne.			1		2							clear.
U. S. S. Lackawanna, Callao, Peru *	29.95	760.7	62	16.7	83	nw.			2		10		nw.					cloudy.
U. S. S. Onward, Callao, Peru†	30.12	765.0	61	16.1	82	nw.			2		10		nw.					cloudy.
U. S. S. Pensacola, Callao, Peru*	29.94	760.5	60	15.6	88	nnw.	3	1.3			10			0	0			cloudy.
U. S. S. Wachusetts, Noukahiva, Marquesas Ids	30.00	762.0	77	25.0	77	nw.			1		0					sm'h		clear.
S. S. Australia, Sydney, N. S. W.	30.26	768.6	53	11.7	86	w.			2		2		w.	0	0			clear.
S. S. City of New York, S. 24° 27′, W. 175° 28′ †	30.07	763.8	69	20.6	61	s.			6		0			0	0	mod	s.	clear.
H. M. S. Lark, S. 7° 09′, E. 155° 47′	29.89	759.2	79.3	26.3	89	ese			3		10					1	e.	showery.
Bk. Edmund Phinney, S. 25° 38′, W. 78° 40′ *†	30.35	770.9	63	17.2		sse.			5		5		sse.	0	0	long	s.	fair.
S. Parker M. Whitmore, S. 7° 43′, W. 113° 10′ *†	29.97	761.2	76	24.4		e.			5		3		e.	0	0	short	ese.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.10	764.5	80	26.7	91	sse.			4		4	ese.				4	sse.	d. clouds.
H. M. S. Sheldrake, S. 6° 07′, E. 106° 48′			83	28.3		ne.			2		1							blue sky.
H. M. S. Tourmaline, Trincomalee, Ceylon, India	29.81	757.2	88	31.1	62	sw.			2		2	wsw.						d. clouds.
U. S. S. Enterprise, Nossi Bay, Madagascar, Africa*	30.14	765.5	81	27.2	74	ne.			2–3		2		calm			sm'h		clear.
U. S. S. Juniata, Trincomalee, Ceylon, India	29.79	756.7	85	29.4	83	sw.			3		8		sw.	0	0	sm'h		cloudy.
S. S. Toledo, N. 18° 00′, E. 40° 32′ *†	29.82	757.4	92	33.3		nnw.			6							h'vy	n.	clear.
S. S. Malabar, N. 5° 39′, E. 64° 30′ *†	29.85	758.2				wsw.			7		10		wsw.	0	0	h'vy	wsw.	hazy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 29, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours			30.08	764.0	73.4	23.0	87	n.			2		0			0	0	clear	Malaterre.
Algiers			30.06	763.5	76.3	24.6	68	wsw.			3		0			0	0	clear	Thève.
La Calle			30.00	762.1															Fonfrède.
Tunis			30.04	762.9															Jacques.
Saida			30.08	764.0															Pérès.
Tebessa			30.08	763.9	87.1	30.6	14	n.			4		0			0	0	clear	St. Martin.
Geriville					100.4	38.0	1	ne.			3		3			inap.	inap.	very cloudy	Forfert.
Laghouat			30.01	762.2	93.6	34.2	24	e.			1		0			0	0	clear	Abraham.
Biskra			30.03	762.7	92.5	33.6	19	se.			1		0			0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			30.18	766.6	50.7	10.4	82	n.	6	2.7			2 s			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.08	764.0	30.17	766.3	56.0	13.3	76	nnw.	6	2.7			10			0	0	threatening	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.59	751.5	30.12	765.0	72.5	22.5	56	ne.			4		5			0.024	0.6	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.45	748.0	30.19	766.9	73.9	23.3	57		6.3	2.8			1			0	0		Dr. Wierzbiski
Eperies	29.25	742.9	30.09	764.3	77.4	25.2	49	calm			0	2 cs				0.291	7.4		Julius Mikolik.
Gratz	28.95	735.4	30.17	766.3	70.3	21.3	69	e.			2		5			0.618	15.7		Andreas Rospini.
Hermannstadt	28.68	728.5	30.05	763.2	77.4	25.2	52	ene.			3		6			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.79	731.2	30.07	763.8	75.4	24.1	62	ne.			3	ck				0	0	clear	The Staff.
Lemberg	29.19	741.5	30.14	765.6	73.0	22.8	52	ne.			2		2			0.165	4.2		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.97	761.3	30.08	764.0	76.6	24.8	60	ene.			5		2			0	0		I. R. Hydrographic Office.
Szathmar	29.62	752.3	30.07	763.8	79.5	26.4	31	ne.			1		4			0	0		Joseph Midlinszky, S. J.
Szegedin	29.81	757.2	30.08	764.1	74.8	23.8	47	n.			1		5			0	0		Karl Stancel.
Trieste	30.00	762.0	30.10	764.5	77.7	25.4	38	ne.			2		1			0	0		Royal Academy.
Vienna	29.49	749.1	30.19	766.7	75.6	24.2	39	se.			2		2			0	0		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.81	757.2	29.90	759.4	62.6	17.0	78	s.	14	6.3			7			0.030	0.8	d. clouds	W. Boswell.
Armagh, Observatory	29.62	752.3	29.84	757.9	62.5	16.9	81	s.	8	3.6			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.92	760.0	68.3	20.2	66	s.	15	6.7			9					overcast	John Harnup.
Bolton, Sharples	29.41	747.0	29.94	760.5	67.0	19.4	73	ssw.	12	5.4			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.54	750.3	29.94	760.5	70.8	21.6	52	sw.			2		6			0.86	21.8	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	29.99	761.7	30.11	764.8	76.0	24.4	93	ne.			1		8					overcast	Corpl. W. I. Cull, A. H. C
Cardington	29.90	759.4	30.00	762.0	79.4	26.3	64	sw.			0.4		7					d. clouds	John McLaren.
Chatham, School M. E.	29.90	759.4	30.02	762.5	79.3	26.3	65	sw.			1		3					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.74	755.4	29.97	761.2	61.0	16.1	83	s.			3		9					d. clouds	The Staff.
Fort Napier, Natal	27.94	709.7	30.16	766.1	77.7	25.4	30	se.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.66	753.4	29.89	759.2	79.0	26.1	86	se.			1		2					raining	J. W. Smith.
Galway, Queen's College	29.73	755.1	29.76	755.9	62	16.7	88	sw.			2		4			0.36	9.1	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.03	762.7	30.08	764.0	73.2	22.9	82	w.			5		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.68	753.9	29.89	759.2	61.0	16.1	92	s.			1		10					raining	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.82	757.4	29.99	761.7	79.8	26.6	59	sse.			1		6					d. clouds	The Staff.
Guernsey	29.68	753.9	29.97	761.2	68.8	20.4	90	nne.			2		3					blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.96	761.0	30.00	762.0	77.8	25.4	63	s.	11	4.9			5					d. clouds	The Staff.
Leicester, Museum	29.73	755.1	29.98	761.5	74.6	23.7	60	sw.			1		3					d. clouds	J. C. Smith.
Malta, Mediterranean	29.87	758.7	29.94	760.5	74.6	23.7	93	ne.			2		0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.16	766.1	88.0	31.1	62	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.47	748.5	29.98	761.5	71.3	21.8	66	s.			5		7					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.76	755.9	29.99	761.7	74.0	23.3	67	s.			2		4					blue sky	The Staff.
Plymouth	29.89	759.2	29.96	761.0	67.4	19.7	78	ese.			2		6					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.78	756.4	29.88	758.9	58.9	14.9	70						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.87	758.7	29.94	760.5	79.0	26.1	49	ne.			2		2					d. clouds	W. H. Lyne.
Sheffield	29.69	754.1	29.96	761.0	75.7	24.3	77	ssw.			3		1			0.35	8.9	blue sky	W. F. Cooper.
Silloth Rectory	29.88	758.9	29.91	759.7	62.5	16.9	92	sw.			2		10			0.220	5.6	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	29.93	760.2	30.02	762.5	66	18.9	79	s			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.78	756.4	29.80	756.9	61.2	16.2	82	s.	16	7.2			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.60	751.8	30.00	762.0	79.9	26.6	55	se.	3.1	1.4						0	0	clear	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.					75.0	23.9		nw.	7	3.1			10 ks			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.71	754.6	29.75	755.6	65	18.3	89	sw.	11	4.9			10 n		sw.	0.030	0.8	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.64	752.8	29.70	754.4	69	20.6	84	sw.	9	4.0		5 ck	5 k		sw.	0	0	fair	G. A. Blair.
Cornwall, Ontario	29.61	752.1	29.79	756.7	67.0	19.4	87	sw.			2		0	sw.		0.045	1.2	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.60	751.8	29.64	752.8	66.5	19.2		calm			0		10 ks			0	0	gloomy	H. A. Johnson.
Father Point, Quebec*	29.56	750.8	29.58	751.3	54	12.2	86	nw.	10	4.5		0	2 s			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.25	742.9	30.06	763.5	60	15.6	87		3	1.3		5 k	0	nw.		0	0	hazy	James Stewart.
Fredericton, N. B.	29.70	754.4	29.77	756.1	74.1	23.4	72	sw.	10	4.5		0	0			0.180	4.6	blue sky	Prof. Harrison, L. L. D.
Granton, Ontario	28.79	731.3	29.86	758.4	60.0	15.6	100	se.	2	0.9			10			0	0	misty	Jas. Grant.
Halifax, N. S*	29.75	755.6	29.87	758.7	65	18.3	87	sw.	5	2.2		8 k	0	sw.		0.182	4.6	cloudy	A. Allison.
Hamilton, Ontario	29.40	746.7	29.79	756.7	62.2	16.8	96	sw.			1	5 k	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.52	749.8	29.85	758.2	64	17.8	93	sw.	4	1.8		0	5 k		sw.	0.12	3.0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.68	753.9	29.72	754.9	75.6	24.2	72	sw.			3	5 k	0	sw.		0	0	fair	C. H. Rigby.
London, Ontario	28.98	736.1	29.85	758.2	61.2	16.2	97	calm					10 n			0	0	foggy	E. B. Reed.
Montreal, Quebec*	29.58	751.3	29.78	756.4	69	20.6	76	sw.	12	5.4		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.56	750.8	29.79	756.7	67.0	19.4		sw.			4	0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.14	740.1	29.81	757.2	63	17.2	98	s.	1	0.4		5 k	5 ks	s.	s.	0.06	1.5	fair	Rev. R. Mosley.
Peterboro, Ontario	29.11	739.4	29.82	757.4	67.7	19.8	89	sw.			1	2 c	0	ne.		0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.17	740.9	29.83	757.7	65	18.3	94	s.	4	1.8		2 c	0	sw.		inap.	inap.	fair	H Morgan.
Port Stanley, Ontario	29.21	741.9	29.84	757.9	64	17.8	96	se.	4	1.8			10 n		se.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.38	746.2	29.72	754.9	66	18.9	96	s.	16	7.2			10 ks		sw.	0.01	0.3	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.34	745.2	29.77	756.1	61	16.1	93	calm	0	0		8 ck	fg	w.		0.02	0.5	fair	W. H. McIntyre.
St. Andrews, N. B.	29.76	755.9	29.81	757.2	58	14.4	100	s.	1	0.4			fg			0.15	3.8	foggy	
St. John, N. B	29.65	753.1	29.81	757.2	57.0	13.9	100	sw.	6	2.7			fg.			0	0	foggy	G. Murdock, C. E.
Saint John's, N. F.	29.67	753.6	29.91	759.7	66	18.9	84	w.			4	2 c	0			0	0	blue sky	J. Higgins.
St. Pierre, N. F.			29.76	755.9	60.8	16.0		sw.			4					0	0		The Commandant.
Saugeen, Ontario*	29.11	739.4	29.80	756.9	65	18.3	93	s.	10	4.5		3 c	0			inap.	inap.	fair	
Stratford, Ontario	28.59	726.2	29.83	757.7	61.1	16.2	97	s.	1	0.4			10 s			0	0	d. clouds	C. J. Macgregor, M A.
Sydney, C. B*	29.72	754.9	29.78	756.4	66	18.9	84	sw.	19	8.5		10 k	0	w.		0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.48	748.8	29.86	758.4	64	17.8	90	sw.	1	0.4		2 cs	hz.	ne.		0	0	hazy	Magnetic Observatory.
Windsor, N. S	29.70	754.4	29.79	756.7	72.0	22.2	80	sw.	4	1.8		1 c	0			0	0	blue sky	Prof. W. B. Butler, M.A.
Woodstock, Ontario	28.72	729.5	29.75	755.6	62.6	16.9	95	se.	3	1.3			10 s			0	0	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.83	757.7	29.89	759.2	54	12.2	96	w.	7	3.1			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CAPE COLONY.																			
Cape St. Francis Lt. House	30.20	767.1	30.23	767.8	65.0	18.3	80	sw.	10.0	4.5		4 c	0			0	0	fine	John Duthie
Springbok Fontein	28.05	712.5			72	22.2	16	ne.											J. T. Eust c.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Guelny.
Tchang-kia-tchouang	29.67	753.7	29.78	756.5	79.7	26.5	70	sw.			1		10			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.73	755.2	29.76	755.8	78.1	25.6	94	ene.	6.3	2.8			10			0.024	0.6	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.11	764.7	30.15	765.9	76.3	24.6	48	se.	16	7			2						Oversergent Fischer.
Fanoe	30.13	765.4	30.15	765.9	71.1	21.7	74	sw.			2		4						Overloerer Lauridsen.
Godthaab, Greenland	29.54	750.4	29.59	751.5	46.4	8.0	60	s.			4		0						S. Kleinschmidt.
Jacobshavn, Greenland	29.48	748.9	29.53	750.1	58.3	14.6		se.			6		0						
Stykkisholm, Iceland	29.64	752.8	29.68	753.9	47.1	8.4	77	e.			4		10					raining.	A. O. Thorlacius.
Thorshavn	29.74	755.3	29.76	755.9	57.4	14.1	90	sw.	7	3			6						Overloerer Bergh.
Vestervig	30.04	763.1	30.13	765.4	68.5	20.3	81	sw.			4		4						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.73	755.2			88.2	31.2		ne.	3.8	1.7		0	0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.37	746.1	29.99	761.7	83.1	28.4	56	sse.			1		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.43	747.5	29.98	761.5	77.0	25	56	sw.			1		ks		ne.	0	0		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	29.96	760.9	30.04	762.9	86.7	30.4	46	ssw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.45	747.9	29.97	761.3	80.1	26.7	40	sse.			1	5 c	0			0	0	cloudy	M. Sailiard, Director.
Beauvais, Normal School	29.76	755.8	30.02	762.4	80.2	26.8	40	e.			1		2			0	0	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	29.13	739.9	29.96	761.0	84.2	29	46	s.			1	0	0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.67	753.6	29.92	759.9	8[illegible].5	27.5	56	sw.			1		1			0	0	almost clear	M. Rayet, Director.
Bourges, Normal School	29.43	747.4	29.94	760.5	85.1	29.5	39	e.			2		1		e.	0	0	clear	M. Malet, Director.
Brest, Naval Observatory	29.70	755.9	30.00	762.1	74.1	23.4	77	calm			0		8			0.020	0.5	raining	M. de Kermarès, Dir.
Caen, Normal School	29.84	757.8	29.91	759.6	85.3	29.6	47	s.			2		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.67	753.7	29.98	761.4	85.1	29.5	62	s.			1		2		sw.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.53	750.1	30.02	762.5	86.4	30.2	31	e.			3		2			0	0	¼ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.65	727.7	29.91	759.7	88.2	31.2	27	se.			1	2 ck	0			0.004	0.1	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.18	741.1	30.00	761.9	85.1	29.5	34	se.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.23	742.5	30.05	763.3	78.4	25.8	44	e.			2	ck		e.	e.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.56	700.1	29.98	761.5	77.7	25.4	45	nw.			2	4 ck	0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.94	735.0	30.00	762.1	84.9	29.4	37	ssw.			2		2		s.	0	0		M. Kina, Director.
Grenoble. Normal School	29.24	742.7	29.97	761.3	82.8	28.2	55	nnw.			1	ck	n		s.	0.012	0.3		M. Ablard, Director.
Guéret, Normal School	28.45	722.6	29.98	761.5	85.1	29.5	37	ese.			1		10 kn		wnw.	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School	29.81	757.1	30.08	763.9	77.0	25.0	71	n.					k		n.	0	0		M. Ollitrault, Director.
Lescar, Normal School	29.41	747.0	29.96	760.9	71.4	21.9	89	wsw.			1		8			0	0	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.84	757.9	29.94	760.5	83.1	28.4	61	sw.			1		2		s.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.0	29.99	761.8	80.6	27.0	36	s.			1	2 c	0			0	0	clear	M. André, Director.
Mans, Normal School	29.66	753.4	29.96	760.9	79.3	26.3	61	sse.			3		2		s.	0	0	slightly cl'dy	M. Piboën, Director.
Marseille, Observatory	29.79	756.6	30.05	763.3	73.4	23.0	73	wnw.			1		1		wsw.	0	0		M. Stephan, Director.
Montlouis	24.90	632.4	29.74	755.4	62.2	16.8	27	nw.	15.0	6.7			7		n.		0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.90	759.5	30.02	762.6	75.6	24.2	77	s.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29 28	743.7	30.02	762.5	82.4	28.0	53	nne.			1					0	0		M. Hasse, Director.
Nantes, Observatory	29.78	756.4	29.93	760.2	84.7	29.3	55	wnw.			0–1		7k;kn;n		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.90	759.4	30.00	762.1	75.4	24.1	75	ne.	9.4	4.2			10		ne.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	544.1			55.4	13.0		w.			1				w.	0	0		M. Vaussenat, Director.
Privas, Normal School	28.98	736.1	30.00	761.9	83.1	28.4	37	s.			1		2 k	s.	s.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.29	642.3			63.7	17.6	60	sse.			2		2			0	0	¾ covered	M. Alluard.
Rochefort, Naval Obs'y	29.86	758.4	29.89	759.2	87.4	30.8	48	s.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.67	753.5	29.87	758.6	85.3	29.6	61	sse.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.91	709.0	29.95	760.7	82.0	27.8		e.			3	0	1 ci			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.95	760.8	30.00	762.0	83.5	28.6	43	ese.			2		0			0	0	clear	M. Mouillot, Dir.
Saint Maur, Observatory	29.84	758.0	30.00	762.1	83.3	28.5	37	ese.			1		1		e.	0	0		M. Renou, Director.
Toulouse, Observatory	29.26	743.3	29.99	761.7	82.6	28.1	60	sse.			3		0			0	0	clear	M. Baillaud, Director.
Tours	29.76	756.0	29.94	760.5	80.6	27.0	44	e.			1		1		sw.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.52	749.8	30.01	762.3	82.8	28.2	36	se.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
St. Martin du Hinx	29.85	758.3	30.00	762.1	74.1	23.4	66	w.	15.7	7.0		0	4 k		w.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.69	728.7	30.07	763.7	78.1	25.6	46	e.			4		1	e.		0	0		Prof. Jaedt.
Bamberg	29.24	742.8	30.09	764.2	78.3	25.7	52	s.			3	0	2 ks		sw.	0	0		Prof. Dr. Hoh.
Berlin	30.01	762.3	30.15	765.7	83.8	28.8	26	se.			1		0			0	0		Dr. Sensch.
Breslau	29.71	754.6	30.24	768.2	75.7	24.3	35	ese.			3		0			0	0		Royal University Obs'y.
Carlsruhe	29.61	752.1	30.05	763.2	82.4	28.0	41	ene.			1		1	se.		0	0		Albert Senz.
Cassel	29.39	746.6	30.11	764.7	83.5	28.6	39	e.			2		2	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.04	762.9	83.3	28.5	33	se.			1		3			0	0		Physical Society.
Friedrichshafen	28.66	727.9	30.00	762.1	78.8	26.0	48	ne.			2		1	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.04	762.9	30.13	765.2	82.0	27.8	56	se.			2		4	nw.		0	0		E. Preller.
Kiel	30.13	765.2	30.14	765.6	75.7	24.3	48	ne.			2		4			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.72	754.8	30.11	764.9	84.4	29.1	36	se.			1		4			0	0		H. Leppig, Asst.
Magdeburg	29.92	760.0	30.10	764.6	85.5	29.7	34	e.			1		3	ene.		0	0		Weather Observatory
Memel	30.27	768.9	30.32	770.1	71.2	21.8	58	wnw.			1	0	0					clear	Issermann.
Munich	28.30	718.7	30.17	766.2	74.7	23.7	48	ne.			3		1	ne.		0	0		Central Station.
Neufahrwasser	30.24	768.1	30.26	768.5	79.5	26.4	50	e.			2		4	s.		0	0		A. Lothes.
Neustadt, Palatinate	29.51	749.5	30.04	762.9	83.1	28.4	40	se.			3		2			0	0		Dicknether.
Stuttgart	29.14	740.1	29.98	761.6	79.7	26.5	43	s.			1		1	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.16	766.0	30.19	766.7	74.7	23.7	70	nne.			2		5 k		s.	0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.58	751.2	29.94	760.5	78.8	26.0		n.			3.0		7 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.35	745.5	29.40	746.8	89.2	31.8	75	s.	34.0	15.2			8		s.	0	0	d. clouds	
Deesa	29.01	736.8	29.47	748.6	82.7	28.2	77	s.	15.0	6.7			2	s.		0.08	2.0	drizzling	
Bombay	29.65	753.1	29.69	754.1	79.6	26.4	94	s.	27.0	12.1			10		ssw.	0.44	11.2	overcast	
Poona, Yarrowda	27.88	708.1	29.74	755.5	73.3	22.9	88	sw.	22.0	9.8			10			0.49	12.4	overcast	
Trichinopoly	29.54	750.2	29.81	757.2	91.2	32.9	49	w.	1.0	0.4			10	ne.	ne.	0	0	overcast	
Belgaum	27.24	691.8	29.79	756.6	71.9	22.2	90	w.	8.0	3.6			7	s.	w.	0.43	10.9	d. clouds	
Lahore	28.66	728.0	29.36	745.6	106.8	41.6	34	e.	2.0	0.9			6			0	0	d. clouds	
Roorkee	28.59	726.2	29.47	748.5	86.8	30.4	74	sw.	5.0	2.2			2		s.	0	0	gloomy	
Agra	28.92	734.6	29.46	748.3	97.1	36.2	47	sw.	6.0	2.7			8		sw.	0	0	d. clouds	
Nagpur	28.53	724.8	29.55	750.5	90.7	32.6	49	wnw.	18.0	8.0			9		nw.	0	0	d. clouds	
Jubbulpore	28.25	717.4	29.58	751.4	83.2	28.4	68	nw.	8.0	3.6			10		nw.	0.12	3.0	overcast	
Lucknow	29.15	740.4	29.52	749.8	89.1	31.7	75	calm	0	0			6	ese.		0.89	22.6	d. clouds	
Allahabad	29.20	741.6	29.50	749.3	90.7	32.6	69	nw.	2.0	0.9			10		e.	0	0	overcast	
Patna	29.33	744.9	29.51	749.5	87.6	30.9	71	ne.	4.9	2.2			8	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.48	698.0	29.48	748.7	75.1	23.9	93	ene.	11.9	5.3			10			0.13	3.3	drizzling	
Cuttack	29.31	744.5	29.39	745.6	78.2	25.7	92	w.	6.0	2.7			10		w.	3.40	86.4	showery	
Calcutta, Alipore	29.24	742.8	29.26	743.3	78.9	26.1	95	sse.	22.0	9.8			10		e.	1.25	31.8	drizzling	
Dhubri	29.48	748.8	29.60	751.6	81.0	27.2	73	se.	4.0	1.8			6	ne.		0.10	2.5	d. clouds	
Chittagong	29.51	749.4	29.60	751.8	76.5	24.7	96	e.	11.3	5.0			10			0.23	5.8	drizzling	
Sibsagar	29.29	743.9	29.62	752.3	83.5	28.6	83	ne.	4.0	1.8			8	e.	w.	0	0	d. clouds	
Jeypore	28.09	713.5	29.49	749.1	89.9	32.2	58	sw.	4.5	2.0			5		sw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.06	763.6	30.09	764.2	82.8	28.2	49	ssw.	7.2	3.2			7	ssw.		0	0	d. clouds	
Bellary	28.27	718.0			84.0	28.9	54	sw.	8	3.6		5 ck	5			0	0	gloomy	
ITALIAN.																			
Udine	29.71	754.6	30.11	764.7	80.2	26.8	41	s.	3.1	1.4			4			0	0		Prof. Giovanni Clodig.
Milan	28.80	731.5	30.09	764.2	82.0	27.8	39	se.	7.4	3.3			2	n.		0	0		Prof. G. V. Schiapparelli.
Padua	30.00	762.1	30.11	764.8	77.4	25.2	38	ese.	16.1	7.2			1	ne.		0.024	0.6		Prof. Dott. Lorenzoni.
Moncalieri	29.18	741.1	30.06	763.4	78.1	25.6	57	nw.	2.5	1.1			5	ne.		0.031	0.8		Prof. F. F. Denza.
Genoa	29.87	758.6	30.05	763.3	76.3	24.6	74	sw.	1.3	0.6			6	n.		0.008	0.2		Prof. G. M. Garibaldi.
Mondovi	28.20	716.2	30.05	763.3	77.9	25.5	49	nne.			4		2			0	0		Prof. D. C. Bruno.
Pesaro	29.97	761.1	30.01	762.3	73.9	23.2	58	e.	9.8	4.4			4			0	0		Prof. Luigi Guidi.
Florence	29.79	756.6	30.04	763.0	82.4	28.0	43	ne.			2		4			0	0		Prof. Costantino Pittei.
Leghorn	29.91	759.6	29.99	761.7	77.7	25.4	61	nw.	1.8	0.8			3			0	0		Prof. P. Monte.
Rome	29.80	756.9	29.97	761.2	83.8	28.8	28	nw.	1.8	0.8			2			0.264	6.7		Prof. P. Tacchini.
Lecce	29.70	754.4	29.95	760.6	79.9	26.6	46	ssw.	11.2	5.0			7	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.11	739.4	29.96	761.0	86.0	30.0	67	wnw.	3.1	1.4			3	w.		0	0		Prof. D. Conti.
Cagliari	29.79	756.6	29.98	761.4	77.4	25.2	54	sse.			1		1			0	0		Prof. A. Pacinotti.
Palermo	29.78	756.3	30.02	762.5	75.9	24.4	62	ne.	6.3	2.8			0			0	0		Prof. G. Cacciatore.
Syracuse	29.89	759.3	29.94	760.4	78.8	26.0	68	nne.	13.0	5.8			4	wnw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.45	748.1	29.96	760.9	81.3	27.4	53	nw.	3.1	1.4			3	ne.		0	0		Prof. F. Brioschi.
Stelvio	22.40	568.9			49.3	9.6	51	e.			2		4			0.075	1.9	misty	Prof. P. F. Denza.
Valdobbia	22.42	569.5			50.0	10.0	72	e.			2		10			0.413	10.5	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.93	760.2	29.96	761.1	61.5	16.4	89	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	29.91	759.7	29.94	760.5	63.2	17.3	88	nnw.	2.9	1.3			10 s			0	0	overcast	K. Ogawa.
Hamamatsu	29.94	760.5	29.97	761.2	71.8	22.1	89	calm			0	3ck;cs	0			0	0	fair	Y. Sekigawa.
Kanazawa	29.84	757.8	29.94	760.4	68.0	20.0	86	ene.	6.9	3.0		2 ck	2 ck			0	0	fair	S. Endo.
Kagoshima	29.94	760.3	29.94	760.6	72.9	22.7	95	nw.			2		10 n			3.580	85.8	raining	G. Miyanohara.
Kioto	29.76	755.8	29.93	760.2	72.6	22.6	75	s.	0.6	0.3		0	4 s			0	0	fair	M. Tojima.
Kochi	29.91	759.7	29.93	760.2	74.4	23.6	86	se.	1.9	0.8			10 s			0.72	18.3	overcast	K. Kusunose.
Miasaka	29.94	760.5	29.97	761.2	72.6	22.6	96	sse.			2		10 n		e.	1.748	44.4	raining	K. Masusaki.
Miyako	29.87	758.7	29.98	761.5	61.5	16.4	93	calm	0	0		0	8 s			0.008	0.2	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.68	753.9	29.88	758.9	74.7	23.7	93	e.	6.6	2.9			10 n			1.090	27.7	light rain	S. Takehayashi.
Niigata	29.93	760.2	29.96	761.0	63.5	17.5	90	ne.	1.0	0.4		0	0			0	0	clear	M. Morita.
Nobiru	29.96	761.0	29.98	761.4	64.6	18.1	89	s.	5.0	2.2		0	2 s			0	0	fair	H. Midzushina.
Numazu	29.94	760.5	29.98	761.4	72.7	22.6	86	nw.			2	1 ck	3 s			0	0	fair	R. Kaneda.
Osaka	29.91	759.7	29.93	760.1	73.3	22.9	78	nw.	2.5	1.1			10 s		w.	0	0	cloudy	H. Omura.
Sakai	29.88	759.0	29.89	759.2	71.3	21.8	79	ene.			2	0	5 ks		wsw.	0	0	fair	K. Yamawchi.
Tokei Obs'y, Yeddo	29.89	759.3	29.97	761.2	70.5	21.4	88	s.	5.8	2.6		0	0			0	0	clear	The Staff.
Wakayama	29.86	758.4	29.91	759.7	74.0	23.3	83	calm	0	0		1 ck	2 s			0.016	0.4	fair	K. Sakai.
Shimonoseki	29.76	756.0	29.91	759.7	71.9	22.2	88	calm			0		10 ck		w.	0.705	17.9	cloudy	S. Sakano.
MAURITIUS.																			
Mauritius Observatory	29.99	761.7	30.18	766.6	68.5	20.3	80	se.	21.5	9.6			10n;ks		ese.	0.05	1.3	drizzling	The Staff.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	60.3	15.7	95	calm	0	0			10 n			3.549	90.1	raining	Prof. Vicente Fernandez.
Leon	24.33	618.0	29.94	760.5	62.2	16.8	89	s.	0.9	0.4			10 n		w.	0.792	20.1	covered	Prof. M. Leal.
Mazatlan	29.73	755.2	29.99	761.8	75.0	23.9	90	nne.	0.9	0.4			10 n		sw.	0.354	9.0	covered	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					77	25.0	85	e.	8.5	3.8			9 k		s.	0.05	1.3		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.06	763.4	30.06	763.4	78.8	26.0		ese.			3					0	0		
Groningen	30.04	762.9	30.09	764.3	77.7	25.4		ene.			2					0	0		
Helder	30.08	764.0	30.08	764.0	67.8	19.9		e.			1					0	0		
Hellevoetsluis	30.07	763.7	30.07	763.7	81.7	27.6	52	ese.			1					0	0		
Utrecht	30.03	762.8	30.08	764.0	83.8	28.8	40	sse.			2		5			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	759.0			80.6	27.0	72	ne.	0	0			2			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	29.95	760.7	30.01	762.3	64.0	17.8	78	s.	18	8			10			0.087	2.2		
Brono	29.90	759.5	29.94	760.5	56.5	13.6	94	sw.			2		10			0.532	13.5	raining	
Christiania	29.90	759.5	30.04	763.1	71.2	21.8	63	s.	13	6			9			0.016	0.4		
Gjæsvær	29.84	757.9	29.86	758.5	52.2	11.2		calm			0		10						
Lodingen	29.82	757.3	29.86	758.5	61.2	16.2	74	s.			2		2			0.059	1.5	foggy	
PORTUGUESE.																			
Angra, Azores	29.87	758.6	30.02	762.6	68.0	20.0	89	w.	13.0	5.8			5			0	0		Dr. J. A. Sampaio.
Ponta Delgada, Azores	29.12	739.6	30.10	764.4	72.7	22.6	57	wnw.	6.3	2.8			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.12	765.1	30.21	767.3	72.1	22.3	74	sw.	5.6	2.5			9			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.80	757.0	30.13	765.4	67.1	19.5	80	wsw.	21.7	9.7			3	w.		0.004	0.1		The Staff.
Ponta Delgada, Azores	30.04	762.9	30.11	764.7	70.9	21.6	69	sw.	18.6	8.3			4	nw.		0	0		
Saint Paul de Loando	29.80	756.8	30.00	762.0	72.3	22.4	86	nnw.			1		2	sw.		0	0		
San Salvador	28.11	714.0	29.95	760.7	70.1	24.5	54	ssw.			3		0			0	0		
Serra da Estrella	25.37	644.5	30.13	765.2	47.8	8.8	93	wnw.	22.4	10.0			9			0.787	20.0	light fog	
RUSSIAN.																			
Akmolinski	28.40	721.3	29.43	747.6	61.2	16.2	60	nw.	18	8		0	5 k			inap.	inap.		Major K. Lasarew.
Archangel	29.80	756.9	29.82	757.4	65.1	18.4	62	ese.	9	4			10			0.236	6.0	light clouds.	Capt. Sselliwerstow
Ashurada	29.94	760.4	29.84	758.0	77.5	25.3	79	nw.	11	5			10 kn			blank	blank		
Astrakhan	30.06	763.5	29.98	761.4	81.5	27.5	29	nw.	4	2		0	4 ks;s			0	0	light clouds	Capt. Wisganow.
Baku	29.97	761.3	29.93	760.1	73.9	23.3	53	n.	31	14		0	3 ks			0	0		
Barnaul	28.65	727.7	29.12	739.7	64.8	18.2	52	sw.	22	10			4			0.350	8.9		Meteorological Obs'y
Bielosersk	29.50	749.3	29.95	760.7	73.9	23.3	56	wnw.	11	5		ck	7 s			0	0	hazy	
Dorpat	29.95	760.7	30.18	766.6	70.1	24.5	51	sw.	9	4		4 ck	0			0	0		Observatory.
Ekaterinburg	28.74	730.0	29.70	754.4	45.1	7.3	78	nw.	9	4			10 n			0.012	0.3	raining	Meteorological Obs'y
Elissawetgrad	29.65	753.1	30.08	764.0	80.6	27.0	30	ene.	7	3		0	6 k			0	0		
Irkutsk	28.08	713.3	29.68	753.9	56.7	13.7	85	calm			0		5			0	0		
Kasalinsk																			
Kasan	29.62	752.4	29.89	759.1	60.4	15.8	80	wnw.	27	12			10 n			0.291	7.4	thund'r st'm	Observatory.
Kem	29.80	756.8	29.85	758.1	69.3	20.7	56	e.	18	8		0	7 ks			0.016	0.4	hvy. clouds	
Kertch	29.98	761.5	30.00	762.1	73.8	23.2	44	ne.	4	2		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.50	749.3	30.11	764.7	70.1	24.5	36	nne.	9	4		0	6 k;ks			0	0		Observatory.
Koslov	29.55	750.6	30.07	763.7	76.1	24.5	43	wnw.	4	2		0	1 k			0	0	hazy	
Libau	30.23	767.9	30.26	768.5	67.3	19.6	69	sw.	7	3			0			0	0		E. Quaas.
Lugan	29.78	756.3	29.95	760.8	80.2	26.8	34	ene.	13	6			6			0	0		Meteorological Obs'y.
Moscow	29.61	752.0	30.06	763.4	75.4	24.1	44	nw.	11	5		0	4 k			0	0		Meteorological Obs'y
Nikolaiev	30.00	761.9	30.07	763.8	86.4	30.2	41	ene.	4	2		0	3 kn			0.055	1.4		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.53	750.0	29.61	752.2	61.0	16.1	90	e.	7	3			10			0	0		Iwanow.
Pekin, China	29.60	751.8	29.74	755.4	84.7	29.3	47	se.	2.2	1.0		0	2 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.50	749.2	29.83	757.6	88.0	31.1	14	n.	2.2	1.0			0			0	0		
Petrozavodsk	29.71	754.7	29.90	759.5	75.7	24.3	40	nw.	27	12		5 ck	0			0	0		Dr. Bergmann.
Pinsk	29.73	755.2	30.21	767.4	70.1	24.5	50	n.	9	4		6 ck	0			0	0		
Poti	29.87	758.6	29.90	759.4	75.4	24.1	92	nnw.	4	2		0	8 n			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
St. Petersburg	30.09	764.2	30.11	764.8	70.3	21.3	53	wnw.	13	6		cs	8 k			0	0		Central Physical Obs'y.
Samarkand	27.34	694.3	29.63	752.5	87.8	31.0	28	e.	13	6		0	0			0	0		
Semipalatinsk	28.85	732.7	29.48	748.7	63.1	17.3	57	wnw.	18	8			10			0.087	2.2		Major Lasarew
Sevastopol	29.79	756.6	30.01	762.2	75.7	24.3	44	sw.	20	9		0	7 n			0	0		
Staroi Bykhov	29.79	756.6	30.22	767.7	81.3	27.4	35	ne.	4	2		0	6 k			0	0		
Tashkend	28.08	713.2	29.61	752.2	90.3	32.4	20	ne.	9	4		0	1 k			0	0	light clouds	Terch, A. M.
Tiflis	28.54	724.9	29.90	759.5	73.6	23.1	45	s.	2	1			10 k			0.012	0.3		Physical Observatory.
Vernoe	27.20	690.8	29.52	749.7	83.8	28.8	33	calm	0	0		0	4 k			0	0		
Viatka	29.22	742.1	29.83	757.7	60.6	15.9	57	nw.	2	1			5			0	0		
Warsaw	29.82	757.4	30.22	767.7	78.4	25.8	36	calm	0	0		0	2 k			0	0		Astronomical Obs'y.
Yeniseisk	29.19	741.4	29.46	748.3	68.2	20.1	45	ese.	4	2			2			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.78	756.4	56	13.3	94	e.			3		10			0	0	overcast	J. Youngclause.
North Unst			29.87	758.7				s.			3	2	3	calm					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.7	30.05	763.3	80.6	27.0	52	sw.	3.4	1.5		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.97	761.1	30.02	762.6	78.1	25.6	55	nw.	3.1	1.4		2	6	n.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.09	688.1	29.93	760.2	75 2	24.0	46	sw.	3.1	1.4		0	3			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.82	706.6	29.94	760.4	81.5	27.5	32	sw.	16.8	7.5		2	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.86	758.5	29.99	761.8	85.6	29.8	65	ne.	2.2	1.0		3	4			0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.23	742.5	29.99	761.8	64.4	18.0	73	n.	4.0	1.8		6 kn	4 kn	w.	w.	0.413	10.5	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.13	739.8	30.01	762.3	62.4	16.9	90	sw.	3.8	1.7			10			0.358	9.1	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.03	762.8	30.10	764.4	81.7	27.6	81	e.	2.7	1.2		0	1 ks			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.5	29.92	759.9	80.7	27.1	79	se.	2.2	1.0		1 c	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.8	30.17	766.3	70.7	21.5	64	wnw.	8.9	4.0		0	2		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.5	30.11	764.8	80.6	27.0	94	s.	2.7	1.2		3 cs	2 k	s.	s.	0.079	2.0		Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	29.85	758.3	29.89	759.3	68.4	20.2	62	s.			4		6			0	0		
Umea	29.86	758.4	29.91	759.7	75.9	24.4	47	sw.			6		5			0	0		
Hernosand	29.89	759.1	29.94	760.4	69 8	21.0	65	s.			6		9			0	0		
Stockholm	29.94	760.4	30.11	764.9	77.9	25.5	49	sw.			2		10			0	0		
Wisby	30.11	764.8	30.17	766.3	74.8	23.8	57	wsw.			4		0			0	0		
Sub-series.																			
Upsala	29.98	761.4	30.06	763.6	78.1	25.6	46	sw.	12.5	5.6			8		w.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.65	727.7	30.02	762.4	74.7	23.7	57	nne.			1		1			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			30.00	762.0	74.1	23.4	56	ne.	17	7.5			6		ne.	0	0		The Observatory.
Valona			30 14	765.5	79.0	26.1		nw.			1		5			0	0	stormy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.87	758.6	82.0	27.8	56	wsw.			2		1 k		wsw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.82	681.2			65	18.3	70									0	0	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.82	757.4	29.90	759.4	73	22.8	82	s.	6	2.7			10 s		sw.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.20	741.7	29.85	758.2	60	15.6	93	s.	1	0.4			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.14	638.5	29.88	758.9	61	16.1	58	e.	6	2.7		0	0			inap.	inap.	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.18	690.4	29.97	761.2	61	16.1	67	e.	10	4.5		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.93	734.8	30.08	764.0	66.0	18.9	93	sw.	10	4.5			10 s		sw.	0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.89	759.2	29.90	759.4	71	21.7	94	s.	2	0.9			10s; fg			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.89	759.2	30.08	764.0	73.0	22.8	82	w.	4	1.8		2 cs	0	w.		0.06	1.5	clear	John Healy.
Baltimore, Maryland	29.85	758.2	29.90	759.4	75	23.9	82	s.	2	0.9		4 cs	hz.	sw.		0	0	fair	Geo. W. Felger.
Barnegat City, New Jersey	29.88	758.9	29.90	759.4	70.0	21.1	97	s.	7	3.1		9 cs	0	s		0.03	0.8	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.63	752.6	29.65	753.1	42.0	5.6	87	s.	1	0.4			10 n			0	0	cloudy	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.45	722.6	29.99	761.7	76.0	24.4	78	se.	2	0.9		2 ck	2 s	se.	se.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.21	691.1	29.98	761.5	70	21.1	46	calm	0	0		0	0			0	0	clear	S. Wheaton.
Billings, Montana																			T. Gibson.
Bismarck, Dakota	28.25	717.5	30.01	762.2	70	21.1	76	e.	8	3.6		8 ck	0	w.		0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.91	759.7	29.94	760.5	67.5	19.7	97	sw.	7	3.1			fg.			0	0	dense fog	J. T. Elker.
Boise City, Idaho	27.17	690.1	29.95	760.7	56	13.3		w.	2	0.9		8 k	0	w.		0	0	cloudy	J. Kenealy.
Boston, Massachusetts	29.75	755.6	29.90	759.4	71.0	21.7	84	sw.	5	2.2		2 ck	6 s			0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	76.0	24.4	90	n.	4	1.8			10 ks		s.	0.07	1.8	cloudy	E. C. Imlay.
Buffalo, New York	29.13	739.9	29.87	758.7	66.2	19.0	79	s.	6	2.7		1 ck	hz.	sw.		0	0	clear	W. Finn.
Buford, Fort, Dakota	27.98	710.7	29.94	760.5	74	23.3	82	e.	5	2.2		3ck	0			0	0	clear	A. Schneider.
Burlington, Vermont																			D. N. Farnell.
Cairo, Illinois	29.62	752.3	30.01	762.2	70.7	21.5	89	w.	6	2.7		2 ck	4 s	w.	w.	0.05	1.3	fair	W. H. Ray.
Cape Henry, Virginia	29.92	760.0	29.94	760.5	75.0	23.9	85	sw.	8	3.6		0	7 k		sw.	0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.87	758.7	29.90	759.4	72.0	22.2	90	s.	12	5.4			10 s		s.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.33	745.0	30.01	762.2	51	10.6	100	nw.			2		fg.		nw.	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	82	27.8	79	w.	11	4.9		0	1 k		w.	0.01	0.3	clear	G. W. Davis.
Charleston, S. Carolina	29.97	761.2	30.02	762.5	79.5	26.4	74	w.	7	3.1		3 cs	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.16	740.7	29.99	761.7	74.0	23.3	70	sw.	4	1.8		0	fg			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742.7	30.05	763.3	70.5	21.4	82	sw.	12	5.4		5 cs	2 k	w.	sw.	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.28	616.7	30.02	762.5	52.1	11.2	74	nw.	6	2.7		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.12	739 6	29.81	757.2	66.5	19.2	83	sw.	5	2.2		1 c	0			0.19	4.8	clear	John Laurens.
Chincoteague, Virginia	29.90	759.4	29.92	760.0	74	23.3	97	s.	5	2.2			10 ks		s.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.26	743.2	29.91	759.7	66.0	18.9	90	w.	4	1.8			10 n			0.37	9.4	light rain	L. Dunne.
Cleveland, Ohio	29.14	740.1	29.86	758.4	63	17.2	87	s.	5	2.2		5 k	0	sw.		0.02	0.5	fair	J. B. Newlin.
Coleman City, Texas	28.30	718.8	30.05	763.3	69	20.6	90	calm	0	0		3 c	0			0	0	clear	T. J. Kenan.
Columbus, Ohio	29.03	737.3	29.87	758.7	63	17.2	90	s.	3	1.3			10 s		s.	0.08	2.0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.18	715.8	30.05	763.3	69.0	20.6	90	calm	0	0		5 cs	0			0	0	fair	J. McGlone.
Davenport, Iowa	29.22	742.2	29.86	758.4	71	21.7	76	nw.	8	3.6		1 ck	hz.	nw.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.30	642.6	29.91	759.7	64	17.8	59	se.	3	1.3		0	4 ks		se.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.24	717.3	29.98	761.5	57	13.9	77	se.	4	1.8		1 c	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.53	648.5	29.97	761.2	62	16.7	50	ne.	1	0.4		0	0			0	0	clear	F. Willson.
Delaware Breakwater, Del	29.88	758.9	29.90	759.4	72	22.2	97	s.	11	4.9		4 ck	5 s	s.		inap.	inap.	cloudy	T. S. Townsend.
Denver, Colorado	24.97	634.2	30.01	762.2	62.5	16.9	54	s.	5	2.2		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.07	738.4	29.95	760.7	68	20.0	78	nw.	2	0.9		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.16	740.7	29.85	758.2	65.0	18.3	84	sw.	3	1.3		10 k	0			0.03	0.8	cloudy	E. R. Brace.
Dodge City, Kansas	27.58	700.5	30.09	764.3	65	18.3	73	n.	5	2.2		0	0			0	0	clear	D. J. Carr.
Dubuque, Iowa	29.16	740.7	29.84	757.9	73	22.8	69	sw.	1	0.4		5 c	0	n.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.21	741.9	29.94	760.5	76	24.4	74	nw.	21	9.4		0	3 k		nw.	0	0	clear	N. B. Conger.
Eagle Pass, Texas																			F. Belford.
Eagle Rock, Idaho																			H. R. Boynton.
Eastport, Maine	29.77	756.1	29.84	757.9	59.0	15.0	87	s.	6	2.7			fg.		s.	0.03	0.8	light fog	D. C. Murphy.
Elliott, Fort, Texas	27.39	695.7	30.06	763 5	64	17.8	58	calm	0	0		5 k	0			0	0	fair	W. J. Cundall.
El Paso, Texas	26.36	669.5	29.95	760.7	72.0	22.2	55	e.	4	1.8		8 cs	0	e.		0.02	0.5	fair	J. O'Dowd.
Erie, Pennsylvania	29.14	740.1	29.86	758.4	68	20.0	78	s.	7	3.1		4 c	0	w.		0	0	fair	O. A. Shaw.
Escanaba, Michigan	29.12	739.6	29.77	756.1	70.0	21.1	76	calm	0	0		2 cs	hz.			0	0	clear	George Heathcote.
Galveston, Texas	30.03	762.7	30.07	763.8	77	25.0	82	s.	9	4.0			10 n		s	0.04	1.0	thund'r st'm	E. O'O. Macinerney.
Grand Haven, Michigan	29.14	740.1	29.79	756.7	65.0	18.3	73	sw.	1	0.4		6 c	0			0.39	9.9	fair	J. E. Mueller.
Grant, Fort, Arizona					71.4	21.9	38	s.	6	2.7		0	1 s			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.97	761.2	29.99	761.7	77	25.0	97	sw.	10	4.5		3 c	hz.	sw.		0	0	clear	R. M. Crawford.
Helena, Montana	25.88	657.3	30.00	762.0	75	23.9	64	e.	3	1.3		0	0			0	0	clear	H. W. Dodge.

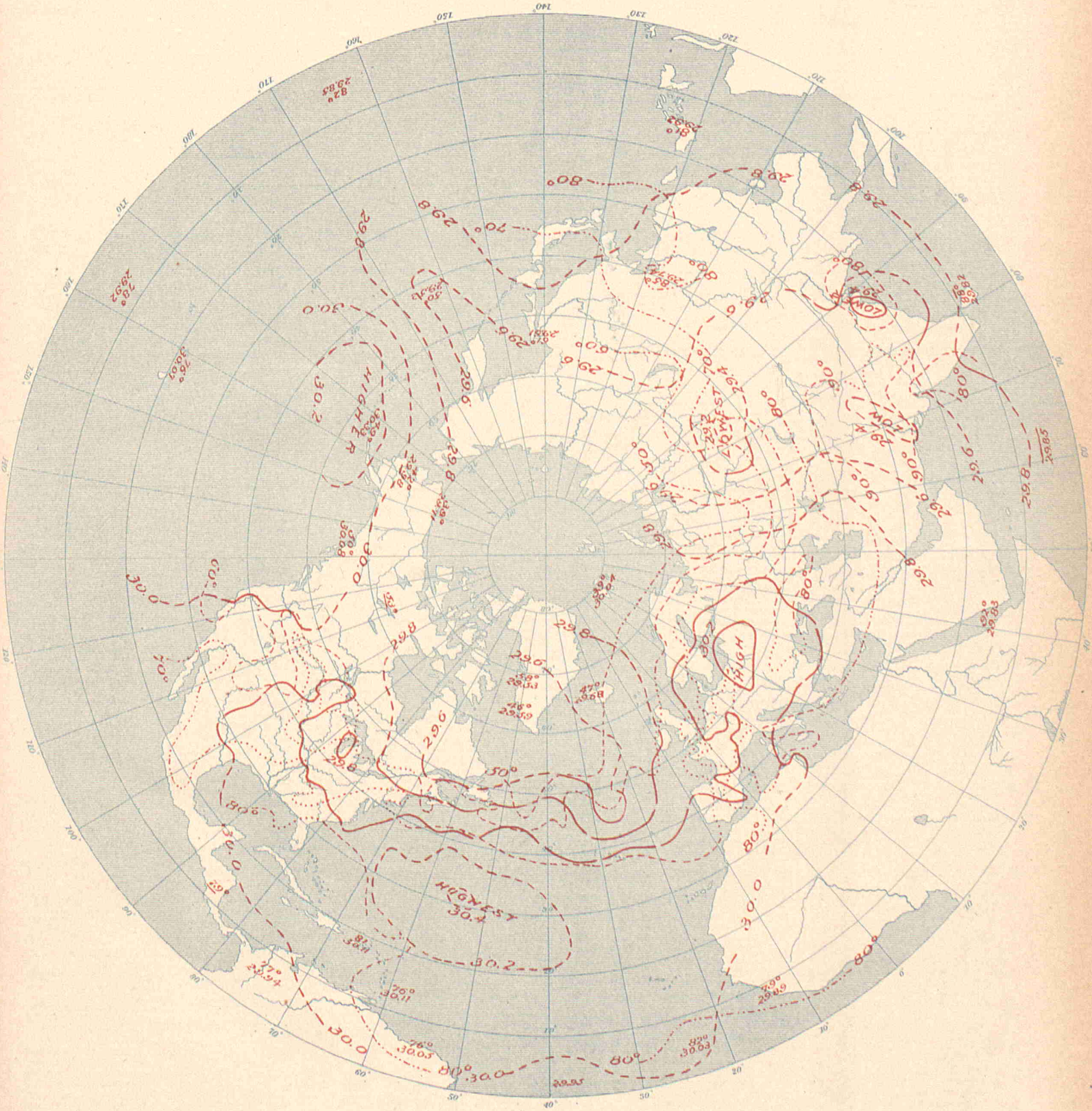
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.66	728.0	30.00	762.0	75.2	24.0	61	ne.	4	1.8		2 cs	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.09	738.9	29.87	758.7	65.0	18.3	84	sw.	2	0.9			10k; s		w.	0.23	5.8	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.98	761.5	30.01	762.2	78.4	25.8	86	calm	0	0		0	4 ks		sw.	0.21	5.3	fair	I. A. Reed.
Jacksonville Florida	30.07	763.8	30.11	764.8	82.5	28.1	80	sw.	10	4.5		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.29	744.0	29.93	760 2	74.0	23.3	69	w.	3	1.3		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.07	763 8	30.09	764.3	87.0	30.6	61	e.	3	1.3		0	3 k		se.	0	0	clear	Lee M. Melbourne.
Kittyhawk, North Carolina	29.97	761.2	29.99	761.7	79	26.1	77	sw.	11	4.9		5 cs	0		nw.	0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	28.99	736.3	30.00	762.0	66.3	19.1	87	sw.	7	3.1		0	5 k		sw.	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.84	757.9	77	25.0	64	sw.	4	1.8		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.18	741.2	30.05	763.3	72	22.2	62	nw.	4	1.8		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.92	760.0	66.0	18.9	58	calm	0	0		1 k	0		sw.	0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.75	755.6	30.06	763.5	68	20.0	84	nw.	1	0.4		3 ck	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.58	751.3	29.96	761.0	64	17.8	93	e.	2	0.9			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.36	745.7	29.91	759.7	66	18.9	87	sw.	8	3.6			10 s			inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.24	742.7	29.91	759.7	73.7	23.2	70	s.	1	0.4		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.19	741.4	29.83	757.7	59.0	15.0	90	e.	4	1.8		0	8 s		e.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.97	761.2	29.98	761.5	79.0	26.1	88	w.	8	3.6		4 ck	0		w.	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.68	652.3	30.01	762.2	70	21.1	32	ne.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.13	739.9	29.85	758.2	58	14.4	64	nw.	20	8.9		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.71	754.6	30.04	763.0	75	23.9	71	w.	1	0.4		0	1 s			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.06	738.1	29.80	756.9	66	18.9	84	w.	4	1.8		1 c	sk.			0.02	0.5	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.06	763.5	30.10	764.5	71.8	22.1	92	n.	1	0.4		4 cs	5 s	sw.		0.40	10.2	cloudy	C. A. Read.
Montgomery, Alabama	29.82	757.4	30.05	763.3	69.3	20.7	96	nw.	5	2.2		1 k	8 ks	w.	nw.	0.85	21.6	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.04	737.6	30.01	762.2	65	18.3	63	n.	6	2.7		2 c	0	n.		0	0	clear	H. White.
Mt. Washington, N. H.	23 80	604.5	29.92	760.0	49.0	9.4	100	w.	48	21.5			fg.		w.	0.11	2.8	dense fog	S. W. Beall.
Nashville, Tennessee	29.42	747.3	29.98	761.5	68.0	20.0	84	sw.	4	1.8		6 cs	4 k	w.	w.	0.33	8.4	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.81	757.2	29.92	760.0	68.5	20.3	93	sw.	3	1.3			10s; fg			0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.90	759.4	29.95	760.7	67	19.4	100	sw.	1	0.4			fg.			0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	76.5	24.7	84	e.	1	0.4			10 s		e.	0.75	19.0	cloudy	M. Herman.
New York, New York	29.76	755.9	29.93	760.2	71	21.7	94	calm	0	0			10s; fg			0	0	cloudy	G. E. Franklin.
Norfolk, Virginia	29.91	759.7	29.94	760.5	77.2	25.1	82	sw.	6	2.7		3 cs	0	w.		0	0	clear	Wm. Davis.
North Platte, Nebraska	27.21	691.1	30.01	762.2	64.6	18.1	88	w.	5	2.2		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.05	763.3	30.09	764.3	46.0	7.8	60	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.85	732.8	29.99	761.7	75.0	23.9	66	sw.	3	1.3		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.69	754.1	29.71	754.6	39.2	4.0	96	ese.	10	4.5		0	9 ks		s.	0	0	cloudy	P. H. Ray.
Oswego, New York	29.54	750.3	29.86	758.4	68.0	20.0	84	se.	4	1.8		3 k	0	sw.		0	0	clear	J. G. Linsley.
Palestine, Texas	29.56	750.8	30.10	764.5	72.0	22.2	90	calm	0	0		0	0			0	0	clear	J. W. Byram.
Pensacola, Florida	30.06	763.5	30.10	764.5	73.8	23.2	92	w.	1	0.4			10 s		sw.	0.35	8.9	cloudy	M. McGauran.
Philadelphia, Pa	29.82	757.4	29.92	760.0	73.5	23.1	98	s.	1	0.4			10s; fg		s.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.19	462.0	30.01	762.2	33	0.6	71	ne.	7	3.1		0	0			0	0	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.10	739.1	29.89	759.2	66.5	19.2	87	sw.	9	4.0			10 k		sw.	0.05	1.3	cloudy	W. A. Reid.
Poplar River, Montana	27.86	707.6	29.96	761.0				se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.14	740.1	29.81	757.2	62.0	16.7	84	s.	3	1.3		5 ck	0	sw.		inap.	inap.	fair	M. H. Perry
Portland, Maine	29.80	756.9	29.85	758.2	71.0	21.7	84	sw.	7	3.1		5 c	0	w.		0.01	0.3	fair	W. W. Eichelberger
Portland, Oregon	29.97	761.2	30.04	763.0	55.0	12.8	80	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					78.0	25.6	88	sw.	9	4.0		4 c	hz.			0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.86	631.4	29.88	758.9	70.0	21.1	46	w.	6	2.7		0	0			0	0	clear	Jas Cassidy.
Provincetown, Mass	29.90	759.4	29.92	760.0	68	20.0	93	sw.	6	2.7			fg.		sw.	0	0	dense fog	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.60	751.8	29.95	760.7	70	21.1	53	n.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.52	749.8	30.07	763.8	51.7	10.9	83	calm	0	0		0	sk.			0	0	clear	J. J. Nanry.
Sacramento, California	29.86	758.4	29.93	760.2	65.0	18.3	70	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.90	761.0	69.4	20.8	76	w.	15	6.7		2 ck	0	w.		0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.95	760.7	29.98	761.5	42	5.6	93	w.	14	6.3			10 n			0.09	2.3	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.06	738.1	29.90	759.4	71.5	21.9	62	n.	8	3.0		0	0			0	0	clear	P. F Lyons.
St. Vincent, Minnesota	29.19	741.4	30.04	763.0	60	15.6	87	ne.	5	2.2			10 s		ne.	0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.66	651.8	29.88	758.9	79	26.1	35	s.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.85	758.2	29.92	760.0	65.1	18.4	87	se.	4	1.8			10 s			0	0	cloudy	A. C. Dobbins.
Sandy Hook, New Jersey	29.90	759.4	29.93	760.2	70.0	21.1	94	sw.	7	3.1			fg.			inap.	inap.	dense fog	B. A. Blundon.
Sanford, Florida	30.05	763.3			82	27.8	88	sw.	4	1.8		0	0			0.31	7.9	clear	J. B. Marbury.
San Francisco, California	29.95	760.7	30.02	762.5	53.5	11.9	90	w.	15	6.7		4 c; ck	fg.	sw.	w.	0	0	fair	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.98	761.5	30.07	763.8	81	27.2	67	w.	10	4.5		8 ck	0			0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.42	671.1	29.99	761.7	57	13.9	77	w.	4	1.8		7 k	0	w.		0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.82	757.4	30.05	763.3	71.7	22.1	83	calm	0	0		5 k	0	w.		0	0	fair	L. A. Welsh.
Sill, Fort, Indian Territory	28.88	733.5	30.08	764.0	67	19.4	93	n.	6	2.7		0	5 ks		n.	0	0	fair	W. M. Mattingly.
Sitka, Alaska	30.02	762.5	30.08	764.0	50	10.0	77	ne.	2	0.9		0	6 ks		ne.	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.63	752.6	30.09	764.3	65.2	18.4	90	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.97	761.2	30.01	762.2	75.5	24.2	80	w.	3	1.3		0	8 ks		w.	inap.	inap.	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.02	711.7	30.06	763.5	60	15.6	67	calm	0	0		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.24	742.7	29.91	759.7	68.5	20.3	84	w.	9	4.0		0	0			inap	inap.	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.11	688.6	30.03	762.7	65	18.3	93	sw.	3	1.3		2 k	0	sw.		0.07	1.8	clear	A. J. Warren.
Thomas, Camp, Arizona					72	22.2	55	calm			0	2 ck	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.14	740.1	29.82	757.4	65	18.3	84	s.	5	2.2			10s; fg		sw.	0	0	cloudy	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	30.31	769.9	30.33	770.4	49	9.4	77	sw.	16	7.2			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					78	25.6	44	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.82	757.4	30.07	763.8	73.0	22.8	97	calm	0	0			fg.			0.07	1.8	dense fog	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.80	756.9	29.91	759.7	75.1	23.9	82	sw.	1	0.4		2 c	0			0.05	1.3	clear	B. M. Purssell.
West Las Animas, Colorado	26.24	666.5	30.01	762.2	65.9	18.8	81	e.	2	0.9		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.95	760.7	30.00	762.0	76.0	24.4	70	sw.	2	0.9			10 s		sw.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.69	728.7	29.97	761.2	74	23.3	76	calm	0	0		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.67	753.6	29.81	757.2	81.5	27.5	80	calm	0	0		1 c	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.06	763.5	78	25.6	75	calm	0	0			9 s		e.	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	76	24.4	91	se.			2		8 ks	e.		0.200	5.1	cloudy	Dr. O. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	77	25.0	94	calm			0		fg.			0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					79	20.1	90	ne.				2 ck	1 ks	se.	ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos.
York Factory, B. A.	29.73	755.1	29.79	756.7	57.0	13.9	94	sw.	3	1.3		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 43° 38′, E. 13° 29′	30.08	764.0	75	23.9	75	n.			2		1	n.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.23	767.8	77	25.0	84	ese.			4		5	ese.						d. clouds.
H. M. S. Gannet, N. 51° 07′, E. 1° 24′	30.00	762.0	66	18.9	79	ne.			1		1							misty.
H. M. S. Iris, Port Said, Egypt	29.89	759.2	78	25.6	82	nnw.			2		1							blue sky.
H. M. S. Minotaur, Corcubion Bay, Spain	30.05	763.3	64.5	18.1	86	s.			3		4	ssw.						misty.
H. M. S. Opal, N. 4° 16′, W. 7° 04′	30.04?	763.0?	80	26.7	70	sse.			1		3	calm				2	sse.	d. clouds.
H. M. S. Tyne, Sierra Leone, Africa	30.02	762.5	79	26.1	86	sse.			1		7	calm						d. clouds.
H. M. S. Tenedos, White Bear Bay, N. F	29.97	761.2	59	15.0	94	s.			2		10	sw.				1	se.	foggy.
H. S. M. S. Eugenie, N. 35° 35′, W. 8° 30′	30.16	766.2	68.7	20.4	89	wnw.			2		3							d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	29.85	758.2	75	23.9	77	nw.	5	2.2			8		nw.	0	0			hazy.
U. S. S. Dale, N. 38° 19′, W 71° 43′	30.03	762.7	70	21.1	95	s.			2		5					sm'h		fair.
U. S. S. Lancaster, N. 56° 47′, E. 17° 03′	30.26	768.6	60	15.6	94	ssw.			3		8		sw.			sm'h		fair.
U. S. S. Nipsic, N. 33° 45′, W. 44° 23′ *	30.24	768.1	75	23.9	90	wnw.			2		2					sm'h		clear.
U. S. S. Portsmouth, Newport, R. I	29.98	761.5	67	19.4	100	ssw.			1									foggy.
U. S. S. Powhatan, Hampton Roads, Va	29.93	760.2	79	26.1	86	sw.			3		5					sm'h		fair.
U. S. S. Saratoga, Newport, R. I	29.97	761.2	69	20.6	90	sw.			1–2		10		sw.	0	0	sm'h		foggy.
U. S. S. Yantic, St Johns, N. F	29.76	755.9	66	18.9	89	wnw.			3		5							fair.
Cottica, N. 32° 33′, W. 53° 56′	30.41	772.4	75	23.9	86	var.			1		2							blue sky.
May Hulse, N. 23° 40′, W. 38° 15′	30.23	767.8	78.5	25.8	80	ne.			2		5							d. clouds.
St. Kilda, N. 22° 00′, W. 60° 00′	30.21	767.3	80.2	26.8	80	e.			4		5							d. clouds.
H.P.M.S. Rio Lima, N. 30° 48′, W. 17° 41′	30.29	769.3	80.6	27.0	72	calm			0		0							blue sky.
S. S. Illinois, N. 50° 44′, W. 14° 39′ †	29.79	756.7	56	13.3		nnw.			3		5		w.			sm'h	nw.	fine.
S. S. Lord Gough, N. 48° 43′, W. 45° 07′	29.74	755.4	44	6.7		sw.			4		10		sw.	0	0	mod.	w.	hazy.
S. S. Ohio, N. 41° 01′, W. 59° 16′†	30.18	766.6	76	24.4		wsw.			3		8		wsw.	0	0	mod.	wsw.	hazy.
S. S. Pennsylvania, N. 49° 10′, W. 22° 32′ †	29.70	754.4	59	15.0		s.			3		2			0	0	mod.	n.	clear.
S. S. Scandinavian, N. 50° 57′, W. 36° 34′	29.76	755.9	54	12.2		nw.			3		2		nw.			light	nnw.	d. clouds.
S. S. Grecian, Glasgow, Scotland			61	16.1	94	calm			0		10			5 h'r	5 h'r			foggy.
S. S. Nova Scotian, N. 43° 30′, W. 64° 38′	30.02	762.5	58	14.4		sw.			2							sli't	sw.	dense fog.
S. S. Polynesian, Montreal, Canada	29.86	758.4	76	24.4		wsw.			3		2		wsw.	0	0	sm'h	s.	clear.
S. S. Prussian, Boston, Mass	29.84	757.9	74	23.3		nnw.			2		6		nw.	0	0			clear?
S. S. Manitoban, Montreal, Canada	30.00	762.0	76	24.4	82	ne.			1		4		ne.	0	0			
S. S. Sardinian, N. 52° 52′, W. 32° 56′	29.59	751.6	50	10.0		wnw.			4		1		nnw.	0	0	sli't	wnw.	clear.
S. S. Jason, N. 39° 42′, W. 64° 41′†	30.04	763.0	73.4	23.0		s.			4		9 n					5	s.	raining.
S. S. Alvo, Kingston, Jamaica, W. I*	30.02	762.5	80	26.7		ese.			2		5		calm	1 h'r	1 h'r			fine.
S. S. Alene, N. 15° 21′ W. 81° 45′ †	30.01	762.2				nne.			3		0			0	0	mod.	ene.	hazy.
S. S. Furnessia, New York, NY†	29.95	760.7	79	26.1	93	calm			0		6			0	0			
S. S. Jerome, N. 22° 36′ W. 55° 16′			78	25.6	100	e.			4		4		ese.	0	0	sli't	e.	clear.
S. S. Llandaff City, N. 49° 05′, W. 34° 30′ †	29.74	755.4	65	18.3		nw.			5		5		w.	0	0	mod.	w.	fair.
S. S. Gallia, N. 41° 03′, W. 60° 48′	29.96	761.0	76	24.4	100	wsw.			4		10					sm'h		misty.
S. S. Pavonia, N. 51° 03′, W 16° 32′	29.72	754.9	60	15.6	82	wsw.			2		7		wsw.	0	0	mod.	w.	cloudy.
S. S. Scythia, Calf Island, Ireland	29.78	756.4				s.			2		6		s.	0	0			hazy.
S. S. France, N. 44° 04′, W. 41° 54′ †	29.95	760.7	60.8	16		wsw.			2		8		sw.	0	0	r'gh	wsw.	
S. S. Abyssinia, N. 45° 00′, W. 45° 35′	29.97	761.2	56	13.3	69	wsw.			4		6		sw.	0	0	mod.	wsw.	cloudy.
S. S. Wisconsin, N. 42° 56′, W. 55° 00′			68	20.0		wsw.			3		10		w.	4 h'r	4 h'r	sli't	wsw.	hazy.
S. S. Bohemia, Hamburg, Germany						e.			1		2		e.	0	0			fair.
S. S. Gellert, N. 49° 30′, W. 22° 40′	29.70	754.4	60	15.6	82	sse.			3		9		s.	0	0	sm'h		covered.
S. S. Lessing, N. 42° 58′, W. 46° 18′	30.11	764.8	65	18.3		wnw.			2		9		nw.	0	0	mod	nnw.	cloudy.
S. S. Silesia, Hamburg, Germany	30.10	764.5	76.7	24.8		ese.			2		3		ese.	0	0			fair.
S. S. City of Berlin, N. 42° 30′, W. 62° 00	29.95	760.7	62	16.7	100	sw.			2		fg			18 h'r	18 h'r	mod.	sw.	dense fog.
S. S. City of Paris, N. 50° 30′, W. 21° 27′*	29.69	754.1				s.			4		2?		s.	1 h'r	1 h'r	long	s.	cloudy?
S. S. Mentmore, N. 51° 46′, W. 7° 52′*†	29.96	761.0				se.			3		2					sm'h		fine.
S. S. Bulgarian, N. 51° 35′, W. 15° 59′ *	29.90	759.4				w.			2		8		w.	0	0			cloudy.
S. S. Sirius, N. 30° 20′, W. 18° 20′*	30.15	765.8				calm			0		0			0	0	sm'h		clear.
S. S. City of San Antonio, Fernandina, Fla.*†	30.07	763.8	81	27.2		wnw.			5		0							clear.
S. S. Colorado, New York, N. Y †	29.85	758.2	70	21.1		sw.			1		10		sw.	0	0			cloudy.
S. S. Chalmette, N. 26° 15′, W. 85° 20′†	30.21	767.3	80	26.7		se.			1		0			0	0	sm'h		clear.
S. S. Lone Star, N. 38° 20′, W. 74° 15′†	29.97	761.2	74	23.3		s.			2		8		s.	0	0	small	se.	hazy.
S. S. Alleghany, Boston, Mass†	29.90	759.4	72	22.2		w.			2		2		w.	0	0			hazy.
S. S. Denmark, N. 47° 20′, W. 27° 22′ †	29.47	748.5	59	15.0		e.			5		10		e	16 h'r	16 h'r	mod.	se.	raining.
S. S. Egypt, N. 51° 28′, W. 15° 45′	29.83	757.7	56	13.3		w.			2		5		wsw.	0	0	mod.	wsw.	fair.
S. S. England, Liverpool, Eng	30.08	764.0				sw.			2		8		sw.	0	0			cloudy.
S. S. Erin, N. 49° 55′, W. 6° 02′	29.96	761.0	60	15.6		s.			5		3		w.	0	0	mod.	w.	clear.
S. S. Greece, N. 40° 22′, W. 64° 04′	30.00	762.0	75	23.9	90	s.			4		4		s.	½ h'r	½ h'r	light	sw.	hazy.
S. S. Helvetia, N. 45° 36′ W. 38° 46′	29.95	760.7	64	17.8	89	nnw.			1		8		nnw.	0	0	mod.	nw.	cloudy.
S. S. Holland, N. 40° 29′, W. 73° 46′	29.86	758.4	72	22.2		se.			1		10					sm'h	sse.	dense fog.
S. S. The Queen, N. 40° 49′, W. 58° 17′	30.04	763.0	79	26.1	78	w.			6		5		w.	2½h'r	2½h'r	r'gh	w.	fair.
S. S. Braunschweig, N. 45° 11′, W. 35° 30′	29.86	758.4	64.0	17.8	67	n.			5		9		ne.	2 h'r	2 h'r	r'gh	n.	cloudy.
S. S. Elbe, N. 49° 45′ W. 4° 40′	29.97	761.2	63	17.2	83	ssw.			4		9		s.	0	0	long	w.	cloudy.
S. S. Habsburg, N. 44° 27′, W. 38° 58′	29.98	761.5				nw.			4		8		n.	2½h'r	2½h'r	long	nw.	cloudy.
S. S. Main, N. 49° 06′, W. 23° 55′	29.61	752.1	59	15.0		s.			5		6		s.	3 h'r	3 h'r	mod.	var.	fair.
S. S. Neckar, N. 41° 00′, W. 67° 38′	30.05	763.3	64.5	18.1	92	sw.			2		5		sw.	0	0	sm'h	sw.	foggy.
S. S. Oder, N. 41° 05′, W. 50° 44′	30.11	764.8	70	21.1		ssw.			3–4		8		wnw.	2 h'r	2 h'r	mod.	nw.	hazy.
S. S. Ohio, N. 51° 08′, E. 1° 30′	30.08	764.0				ene.			1		2		e.	0	0	sm'h		clear.
S. S. Strassburg, N. 50° 20′, W. 2° 30′	29.99	761.7	75.5	24.2	77	n.			1		6		n.	0	0	1	w.	fair.
S. S. Werra, N. 40° 40′, W. 58° 49′	30.11	764.8	82	27.8		s.			1		0			0	0	sm'h	s.	clear.
S. S. Weser, N. 43° 07′, W. 45° 02′	30.09	764 3	64	17.8		w.			3		5		nnw.	2 h'r	2 h'r	mod.	w.	fair.
S. S. City of Augusta, Savannah, Ga †	30.14	765.5				n.			3		8		n.	0	0			cloudy.
S. S. Colon, N. 22° 49′ W. 74° 23′ †	30.13	765.3	83	28.3	79	e.			3		0			0	0	small	e.	clear.
S. S. Orinoco, N. 38° 40′, W. 71° 51′			74	23.3		ssw.			3		4		ssw.	0	0	hv'y	s.	stormy.
S. S. Rhynland, Jersey City, N. J	29.89	759.2	56	13.3	81	ssw.			4		8		sw.	0	0			hazy.
S. S. Pennland, N. 45° 34′, W. 36° 12′	29.90	759.4	59	15.0	70	n.			6		7		n.	5 h'r	5 h'r	high	nnw.	fair.
S. S. Waesland, N. 45° 04′. W. 37° 01′	29.97	761.2	63	17.2		n.			5		5		n.	0	0	r'gh	nnw.	fair.
S. S. P. Caland, Rotterdam, Holland	30.05	763.3	72.1	22.3	73	s.			2		5		ssw.					fair.
S. S. Leerdam, N. 50° 08′, W. 30° —	29.70	754.4	58.5	14.7	84	nw.			4		8		nw.	2¼h'r	2¼h'r	long	wsw.	cloudy.
S. S. W. A. Scholten, N. 40° 24′, W. 71° 13′	29.89	759.2	68.5	20.3	98	ssw.			3		4		ssw.	12 h'r	12 h'r	1	ssw.	hazy.
S. S. Belize, Savanilla, U.S.C *	29.86	758.4	86	30.0		calm			0		7			0	0	sm'h		fair.
S. S. Valencia, Curacao, W. I†	30.16	766.1	82	27.8	75	ene.			6		2		ene.	0	0			clear.
S. S. State of Georgia, N. 46° 44′, W. 44° 05′†	29.96	761.0	47	8.3		sw.			5		5		sw.	0	0	var.		foggy.
S. S. State of Indiana, N. 52° 24′, W. 28° 30′ † *	29.50	749.3	50	10.0		nw.			3		2		ne.	8 h'r	8 h'r	sm'h		clear.
S. S. Thingvalla, N. 44° 28′, W. 45° 59′ †	30.01	762.2	59.9	15.5		n.			2		3		n.	0	0	r'gh	ne.	clear.
S. S. Marengo, N. 49° 57′, W. 5° 10′†	29.94	760.5	58	14.4		ssw.			5		6		ssw.	1 h'r	1 h'r	high	ssw.	fair.
S. S. Romano, N. 40° 07′, W. 70° 17′†	29.79	756.7	68	20.0		s.			5		9		s.	0	0	h'vy	e.	misty.
S. S. Lake Huron, N. 49° 25′, W. 59° 50′	29.58	751.3	55	12.8		sw.			2		fg.		sw.	0	0	sm'h		dense fog.
S. S. Daniel Steinmann, Montreal, Canada						sw.			4		0			0	0			dense fog.
S. S. Norman, N. 38° 50′, W. 74° 57′	29.81	757.2				sw.			1		10		w.	2 h'r	2 h'r	r'gh	ssw.	overcast.
S. S. Saxon, Philadelphia, Pa †	29.93	760.2				sw.			5		10							squally.
S. S. Adriatic, N. 40° 36′, W. 71° 25′ *†	30.10	764.5	67	19.4		ssw.			3					0	0	sli't	ssw.	dense fog.
S. S Celtic, N. 50° 44′, W. 18° 42′ †	29.80	756 9	62	16.7		ssw.			4		5		s.	0	0	sm'h		fair.
S. S. Antonio Lopez, Cadiz, Spain	30.19	766.8	67.5	19.7	76	sw.			3		2			0	0			clear.
Schr. Abbie H. Gheen, Jersey City, N. J†	30.03	762.7	73	22.8		calm			0									foggy.
Bg. Abbie Clifford, N. 37° 33′, W. 63° 08′†	30.22	767.6	78	25.6		sw.			5		5		sw.	0	0	r'gh	sw.	fair
Bk. Aquidneck, N. 2° 01′, W. 30° 23′ *†	30.00	762.0				se.			4				se.	0	0	h'vy	se.	clear.
Schr. Anna A. Holton, N. 24° 46′, W. 79° 05′*†	30.12	765.0	87	30.6		se.			4		2		sse.	0	0	sm'h	s.	clear.
Bk. Alpheus Marshall, N. 3° 06′, W. 38° 32′*†	29.85	758.2				se.			2		4		se.	0	0			fair

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Arthur Burton, Parkers Flats, Me†	29.85	758.2				sw.			2		fg.		s.	0	0			foggy.
Bk. Aureola, Queenstown, Ireland†	29.85	758.2	64	17.8		s.			5		10		s.	6 h'r	6 h'r			overcast.
Bk. Arda, Sackville, N. B	29.75	755.6				sw.			9		7		sw.	3 h'r	3 h'r			fair.
S. S. Burswell, N. 37° 54′, E 0° 31′*†	30.09	764.3	83	28.3		sw.			2		2		wsw.	0	0	sm'h		clear.
Bg. Belle of the Bay, Apalachicola, Fla †	30.07	763.8				w.			4		5		w.	rain	rain			threatening.
Bk. Bayonnaise, N. 20° 54′, W. 39° 40′			75.2	24		e.			3		4		e			sm'h	e.	fine.
Schr. C. R. Flint, N. 26° 51′, W. 86° 18′ †	30.15	765.8	83	28.3		sse.			1		2		se.	0	0	sm'h		fair.
S. S. Cannonbury, Newport Eng*†	30.10	764.5				calm			0		2		sw.	0	0	sm'h		clear.
Bk. Cato, N. 67° 20′, E. 41° 35 *†	29.94	760.5				se.			3		4		nw.					fair.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I*†	30.04	763.0	79	26.1	82	ne.			2		2		ne.	0	0			clear.
Bkt. David A. Preston, Port Royal, S. C						s.			3		2		s.	0	0			
S. E. J. Spicer, New York, N. Y	29.88	758.9	74	23.3	95	sw.			1		10		sw.	0	0			cloudy.
Bk. E. D. Bigelow, N. 54° 43′, W. 3° 30′*†	29.90	759.4	67	19.4		ssw.			3					4 h'r	4 h'r			gloomy.
U. S. Fish. Com. S. S. Fish Hawk, Cape Henry, Va†	29.96	761.0	85	29.4	96	sw.			3		6		sw.	0	0			fair.
S. Festina Lente, N. 45° 43′, W. 53° 34′	29.89	759.2	55	12.8		wsw.			4		fg.			0	0	mod.	sw.	dense fog.
Schr. F. E. Waters, N. 26° 46′, W. 77° 04′*†	30.20	767.1				se.			1					0	0	sm'h		fair.
Bk. George Davis, N. 50° 51′, W. 15° 10′						wnw.			2				w.	0	0		nw.	covered.
Bk. Gucheon, N. 45° 08′, W. 5° 12′*†	30.05	763.3	69.8	21.0		wsw.			3		5		ssw.	0	0	r'gh	wnw.	fair.
Bk. Galeon, N. 38° 18′, W. 58° 03′ †	30.26	768.6	75	23.9		sw.			4		3		w.	0	0	sm'h	w.	misty.
Bk. Heinrich & Tonio, N. 40° 38′, W. 72° 00′†	29.90	759.4	68	20.0		sw.			1-2		10			0	0	light	s.	dense fog.
S. Hedwig, off Cape Promontore, Austria	30.09	764.2	73.2	22.9	77	ene.			6				ne.	0	0	short	nne.	fine.
Bk. Hattie G. McFarland, New York, N. Y†	29.93	760.2	71	21.7		sw.			2		fg.			0	0			foggy.
Bk. Harriett S. Jackson, N. 31° 30′, W. 72° 30′						s.			5		8		wnw.	0	0	large	sw.	threatening.
Bk. Horace Scudder, N. 11° 05′, W. 75° 00′*†	30.00	762.0	81	27.2		ene.			2		5		ene.	0	0			fine.
Schr. Isabel Alberto, Jacksonville, Fla †	30.02	762.5				w.			2		0			0	0			clear.
Schr. John L. Thomas, Old Providence Island, C. A *†	30.04	763.0	86	30.0		ene.			4		2		ene.	½ hr	½ h'r			fair.
Bg. John Wesley, N. 4° 41′, W. 23° 05′ *†	29.93	760.2	82	27.8		sse.			5		4		se.	3 h'r	3 h'r	mod.	sse.	fair.
Schr. Jennie N. Huddell, Marcus Hook, Pa†	29.93	760.2	78	25.6		calm			0		5			0	0			fair.
S. J. W. Gildemeister, N. 7° 54′, W. 24° 51′	30.06	763.5	80.6	27	96	var.			2		6 k;n			½h'r	½h'r	3	ssw.	fair.
Bkt. Josephine, N. 39° 50′, W. 72° 52′ †	29.93	760.2	73	22.8	80	s.			3		10			0	0	mod.	sse.	hazy.
Bkt. Kryolith, N. 50° 06′, W. 49° 44′ *†	29.62	752.3				sw.			5		fg.			0	0	mod.	s.	dense fog.
Bg. L. & W. Armstrong, St. Pierre, Martinique, W.I*†	30.10	764.5				ne.			1		3		ene.	1 h'r	1 h'r			light rain.
Light House Tender, Laurel, off Indian Key, Fla†	30.11	764.8	83	28.3		w			1		5		w.	3 h'r	3 h'r			fair.
Bg. Lillan, N. 35° 06′, W. 69° 00′†	30.19	766.8	78	25.6		ssw.			5		3		ssw.	0	0	rg'h	sw.	fair.
Bk. Louise Adelaide, off Barnegat, N. J†	30.01	762.2	71	21.7		s.			1		10		sw.	0	0	long	se.	cloudy.
Bk. Milo, N. 43° 25′, W. 62° 30′†	29.85	758.2				wsw.			5		fg.						sw.	rain & fog.
S. S. Madrid, Baltimore, Md†	29.93	760.2	75	23.9	86	nw.			1		3		calm	0	0			fair.
Schr. Minnie A. Bonsall, Bridgeport, Conn†	29.98	761.5	75	23.9		s								0	0			clear.
Bgt. Myrtle, N. 24° 40′, W. 69° 16′*†	30.25	768.3				ese.			4				ese.	8 h'r	8 h'r			fair.
S. S. Mendoza, N. 31° 52′, W. 48° 26′						ne.			1		1		ne.	0	0	sm'h	e.	clear.
Bk. National Eagle, N. 35° 43′, W. 11° 06′						sw.			4		2		sw.	0	0	sm'h		fair.
Bg. O. C. Clary, Guadeloupe, W. I*†	30.05	763.3				ese.			3		4							fair.
Bk. Orpheus N. 39° 18′, W. 64° 18′	30.07	763.8	82	27.8		ssw.			5		6 k		s.	4 h'r	4 h'r	mod.	sw.	hazy.
Bk. Ottawa, Stockholm, Sweden	30.14	765.5	81	27.2		w.			2		3		w.	0	0			fair.
S. Paramita, N. 43° 17′, W. 25° 16′†	29.66	753.4	71	21.7		sw.			7		4		sw.	5 h'r	5 h'r	h'vy	sw.	clear.
S. S. Raleigh, Santiago, Cuba†	30.03	762.7	89	31.7														
S. Rudolph, N. 42° 44′, W. 40° 22′			65.5	18.6		wnw.			2		8		w.	2 h'r	2 h'r	long	wnw.	fair.
Bg. Rising Sun, N. 29° 15′, W. 68° 03′ †	30.20	767.1	84	28.9		s.			4		3		s.	0	0	mod.	s.	
Bk. Rosino, N. 36° 26′, W. 1° 34′			73	22.8		w.			2		0			0	0	sm'h		clear
Bk. Saga, N. 42° 07′, W. 61° 33′ *†	30.01	762.3	79	26.1					4-5		7		wsw.	0	0	mod.	sw.	foggy.
Bk. Sunbeam, N. 38° 41′, W. 9° 20′ †	30.20	767.1	71	21.7	75	sw.			5		5		sw.	0	0	sm'h		fair.
Bk. Southern Belle, N. 29° —′, W. 67° 30′†	30.22	767.6	78	25.6		se.			4		2		se.	0	0	mod.	e.	clear.
S. Sovereign of the Seas, N. 7° 14′, W. 27° 57′*†	30.18	766.6	75	23.9	100	se.			2		9			8 h'r	8 h'r	chop	s.	heavy rain.
S. S. Strathleven, N. 40° 25′, W. 58° 50′	30.14	765.5	73.5	23.1	92	sw.			4		9		wsw.	0	0	4	sw.	overcast.
Bg. Teneriffe, N. 44° 15′, W. 38° 20′*	29.81	757.2				nw.			6		8		nw.	0	0	mod.		
Bk. Tuck Sing, N. 37° 57′, W. 74° 18′*†	29.97	761.2				s.			3		2		w.	0	0	mod.	se.	fine.
Schr. Viola Reppard, Kennebec river, Me†	29.90	759.4	69	20.6		s.			2		8		s.	0	0			foggy.
Bkt. Wandering Jew, Matanzas, Cuba *†	30.08	764.0	82	27.8		calm			0		4		calm	0	0			fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay †	29.92	760.0	51	10.6	89	wnw.			2		8	nw.				1	w.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.23	767.8	59	15.0		ese.			3		3							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.89	759.2	50	10.0	93	nw.			3		9							d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.88	758.9	51	10.6	93	nw.	6	2.7			10		w.	0	0	sm'h		cloudy.
U. S. S. Galena, Montevideo, Uruguay*	29.87	758.7	51	10.6	93	nw.			3		8		w.			sm'h		cloudy.
U. S. S. Quinnebaug, S. 7° 55′, E. 12° 50′	30.02	762.5	75	23.9	72	calm			0		0					sm'h	sw.	clear.
S. Annie M. Law, S. 29° 07′, E. 13° 34′ *†	30.20	767.1	66	18.9		calm			0		0			0	0	high	wsw.	clear.
S. David Stewart, Pernambuco Brazil†	29.92	760.0				sse.			5		2		sse.	rain	rain			
S. Wm. McGilvery, S. 56° 30′, W. 04° 55′*†	29.85	758.2	33	0.6	89	ese.			3		5		ese.	0	0	sm'h		
S. S. Olbers, S. 4° 19′, W. 35° 26′†	30.00	763.5	81	27.2	74	ese.			5		4		ese.	2 h'r	2 h'r	mod.	se.	fair.
Bk. Achille F., off Montevideo, Uruguay†	29.90	759.4	54	12.2	87	nnw.			3		7		nw.	0	0	sm'h		fair.
Bk. Ceylon, S. 1° 21′, W. 27° 22′*†	30.16	766.1	84	28.9	91	e.			5		1		ese.	0	0	r'gh	ese.	clear.
Bk. Gray Eagle, S. 1° 13′, W. 37° 55′*†	29.90	759.4				sse.			5		2			2 h'r	2 h'r	short	se.	clear.
H. P. M. S. Douro, S. 4° 35′, E. 11° 45			75.2	24.0	79	wsw.			3		0							
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.73	755.1	79	26.1	78	se.			3		4							d. clouds.
H. M. S. Champion, N. 4° 00′, E. 121° 00′	29.81	757.2	80	26.7	91	ssw.			2		10					1	sw.	d. clouds.
H. M. S. Espiegle, N. 5° 20′, E. 103° 05′	29.85	758.2	82	27.8	79	calm			0		0							d. clouds.
H. M. S. Flying Fish, N. 37° 34′, E. 121° 26′	29.75	755.6	76	24.4	84	sse.			1		4					1	sse	misty.
H. M. S. Magpie, N. 6° 00′, E. 117° 49′	29.85	758.2	83.3	28.5	83	ene.			3		4					2	ene.	misty.
H. M. S. Zephyr, N. 35° 27′ E. 139° 39′	29.97	761.2	73	22.8	95	sw.			2		10							overcast.
H. P. M. S. Famega, Macao, China	29.77	756.2	86.4	30.2	81	ese.			4		2			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.01	762.2	71.5	21.9	90	e.			2		0			0.93	23.6			clear.
U. S. S. Adams, Pyramid Harbor, Alaska†	29.99	761.7	52	11.1	86	se.			1		8					sm'h		cloudy.
U. S. S. Essex, Honolulu, Sandwich Ids	30.07	763.8	70	24.4	73	nne.			2		5					sm'h		fair.
U. S. S. Monocacy, Salee river, Corea	29.86	758.4	70	21.1	85	wnw.			2		5		nw.					fair.
U. S. S. Palos, Hong Kong, China	29.67	753.6	82	27.8	91	e.			1		8		calm					cloudy.
U. S. S. Richmond, Shanghai, China *	29.66	753.4	80	26.7	100	ne.			2		10		ne.	0.5	13.			cloudy.
S. S. Arabic, N. 38° 19′, W. 123° 49′			56	13.3	94	nw.			4		5		nw.	0	0	mod.	nnw.	fair.
S. S. Coptic, N. 47° 02′, E. 176° 43′	30.19	766.8	49.5	9.7	75	sse.			6		10		se.	4 h'r	4 h'r	r'gh	se.	foggy.
S. S. Oceanic, San Francisco, Cal	30.00	762.0	66	18.9	59	se.			3		5		s.					fair.
S. S. Oregon, Portland, Oregon†	30.06	763.5	58	14.4	94	calm			0		0							clear.
S. S. Willamette, Golden Gate, Cal			51	10.6	100	wsw.			1		fg.			0	0	long	wnw.	dense fog.
S. S. Aucon, N. 33° 57′, W. 118° 09′†	29.98	761.5	66	18.9	89	se.			3		10					light	w.	overcast.
S. S. City of Chester, Hookton, Calf	30.08	764.0	56	13.3	81	e.			2		hz.							
S. S. Queen of the Pacific, Columbia River, Oregon†	30.09	764.3	54	12.2		nw.			2		0			0	0			clear.
S. S. City of Pekin, N. 43° 17′, E. 162° 30′†	29.52	749.8	50	10.0	100	nnw.			0		10		nw.	0	0	mod.	nw.	cloudy.
S. S. City of Sydney, N. 7° 50′, W. 163° 20′*†	29.92	760.0	78	25.6	78	ene.			5		2 k		ene.					clear.
S. S. City of Rio de Janeiro, N. 28° 57′, E. 128° 58′†	29.92	760.0	79	26.1	95	sw.			4		8		sw.	0	0	mod.	sw.	cloudy.
S. S. Colima, Panama, Panama†	29.91	759.7	80	26.7	87	n.			2		4		e.	0	0			fair.
S. S. San Blas, N. 27° 22′, W. 115° 13′			68	20.0		calm			0		0			0	0	mod.	nw.	clear.
S. S. San José, N. 13° 18′, W. 88° 43′ †	29.90	759.4	82	27.8		wnw.			2		2 ck		sw.	0	0	long	sse.	clear.
S. S. Benledi, Shanghai, China*	29.75	755.6	75	23.9	90	ese.			3		8		se.	driz.	driz.	sm'h		cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. Gatherer, N. 31° —', W. 124° —' *†	30.04	763.0	68	20.0	79	nnw.			5				sw.	0	0	chop	nw.	clear.
S. S. Radnorshire, Shanghai, China *†	29.70	754.4				ne.			5		10		ne.	3 h'r	3 h'r			squally.
S. Storm King, N. 2° 53', W. 113° 45' *†	30.00	762.0				se.			4		5		e.	0	0	sm'h	se.	fair.
Bk. Xenia, N. 27° 19', E. 122° 22'			79	26.1		ssw.			4		3		ssw.	2 h'r	2 h'r	sm'h	se.	clear.
H. M. S. Sappho, N. 34° 20' W. 120° 53'	29.90	759.4	54	12.2	100	nnw.			3		2	nnw.				6	nnw.	d clouds.
U. S. S. Ranger, N. 13° 25', W. 89° 28'	29.94	760.5	82	27.8	82	n.			1		2		calm	0	0	light	sse.	clear.
S. Henry Failing, Wilmington, Cal †	29.73	755.1	68	20.0		se.			3		8		se.	0	0	cross	sse.	cloudy.
S. Grecian, Yokohama, Japan †	29.98	761.5	75	23.9	81	ssw.			2		3		sw.	3 h'r	3 h'r			clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W			51	10.6	93	calm			0		0							blue sky
H. M. S. Kingfisher, S. 32° 17', W. 74° 35'	30.19	766.8	59	15.0		ssw.			2		10					3	wsw.	misty.
H. M. S. Nelson, Souva, Feejee Ids, Oceania	29.86	758.4	73	22.8	90	se.			1		6							d. clouds
U. S. S. Iroquois, Coquimbo, Chili	30.11	764.8	53	11.7	86	e.			1		2							clear.
U. S. S. Hartford, S. 1° 20', W. 160° 25' *	29.78	756.4	82	27.8	91	se.			4		2		var.	0	0	sm'h		clear.
U. S. S. Lackawanna, Callao, Peru*	29.97	761.2	62	16.7	83	calm			0		10							cloudy.
U. S. S. Onward. Callao Peru†	30.12	765.0	61	16.1	82	nw.			1		10							cloudy.
U. S. S. Pensacola, Callao, Peru*	29.93	760.2	61	16.1	82	wnw.			3		10			0	0			misty.
U. S. S. Wachusetts, Noukahiva, Marquesas Ids	30.10	764.5	75	23.9	95	calm			0		2		w.			sm'h		clear.
S. S. Australia, Sydney, N. S. W	30.19	766.8	52	11.1	86	sw.			2		0			0	0			clear.
S. S. City of New York, S. 28° 13', W. 178° 06' †	30.19	766.8	64	17.8	58	s.			5		0			0	0	mod.	s.	clear.
H. M. S. Lark, S. 7° 09', E. 155° 47'	29.93	760.2	78.3	25.7	93	ne.			2		10					1	e.	raining.
Bk. Edmund Phinney, S. 27° 13', W. 80° 35'*†	30.33	770.4	62	16.7		se.			4		4		se.	light	light	long	s.	fair.
S. Parker M. Whitmore, S. 4° 51', W. 114° 20' *†	29.97	761.2	78	25.6		ese.			5		2		e.	0	0	short	ese.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.08	764.0	81	27.2	96	sse.			3		2	sse.				3	sse.	d. clouds.
H. M. S. Sheldrake, S. 6° 38', E. 105° 20			81	27.2		s.			2-3		5					2	s.	d. clouds.
H. M. S. Tourmaline, Trincomalee, Ceylon, India	29.82	757.4	88	31.1	62	sw.			2		2	sw.						d. clouds.
U. S. S. Enterprise, Nossi Bay, Madagascar, Africa*†	30.14	765.5	81	27.2	78	wnw.			2		2		calm			sm'h		clear.
U. S. S. Juniata, Trincomalee, Ceylon, India	29.81	757.2	87	30.6	84	sw.			4		8		sw.	0	0	sm'h		cloudy.
S. S. Toledo, N. 15° 24', E. 41° 44' *†	29.83	757.7	92	33.3		nw.			4		3		nw.					clear.
S. S. Malabar, N. 5° 38' E. 61° 59' *†	29.85	758.2				wsw.			7		2		sw.	0	0	h'vy	wsw.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JUNE 30, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.10	764.5	75.9	24.4	85	n.			1		0			0	0	clear	Malaterre.
Algiers			30.08	763.9	77.4	25.2	66	n.			6		0			0	0	clear	Thève.
La Calle			30.00	762.0															Fonfrède.
Tunis			30.03	762.7															Jacques.
Saida			30.12	765.0															Pérès.
Tebessa			30.07	763.8	85.3	29.6	37	nw.			3		3			0	0	very cloudy	St. Martin.
Geriville					90.5	32.5	14	e.			5		0			0	0	clear	Forfert.
Laghouat			30.23	767.8	92.5	33.6	29	s.			2		1			inap.	inap.	very fair	Abraham.
Biskra			30.02	762.4	92.8	33.8	32	calm			0		0			0	0	clear	Gonzon.
Australian.																			
Adelaide, South Australia			29.99	761.7	61.0	16.1	59	ne.	9	4.0			10 kn			0	0	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.88	758.9	29.97	761.2	58.8	14.9	74	n.	25	11.2			10			0.01	0.3	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.56	750.7	30.08	764.1	77.4	25.2	43	ne.			3		2			0.004	0.1	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.5	30.17	766.3	74.5	23.6	48		12.5	5.6			0			0	0		Dr. Wierzbiski
Eperies	29.22	742.2	30.06	763.5	79.2	26.2	65	calm			0	3 cs				0	0		Julius Mikolik.
Gratz	28.91	734.3	30.11	764.8	73.4	23.0	67	e.			2		3			0	0		Andreas Rospini.
Hermannstadt	28.69	728.7	30.04	763.0	78.1	25.6	43	se.			4		6			0.028	0.7		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.2	30.02	762.6	77.7	25.4	56	ene.			3		0			0	0	clear	The Staff.
Lemberg	29.22	742.3	30.18	766.5	72.1	22.3	57	se.			2		5			0	0		Dr. T. Stanecki.
Neu Schmecks																			Dr. V. von Szontagh.
Pola	29.98	761.6	30.09	764.3	77.0	25.0	61	nw.			4		3			0	0		I. R.Hydrographic Office.
Szathmar	29.63	752.7	30.09	764.2	79.5	26.4	36	e.			4		3			0	0		Joseph Midlinszky, S. J.
Szegedin	29.80	756.9	30.07	763.7	77.2	25.1	40	calm			0		3			0	0		Karl Stancel.
Trieste	30.00	762.0	30.10	764.5	80.6	27.0	49	w.			1		8			0	0		Royal Academy.
Vienna	29.46	748.3	30.15	765.9	75.0	23.9	54	e.			1		3			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.90	759.4	30.00	762.0	64.4	18.0	67	sse.	18	8.0			3			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.71	754.6	29.93	760.2	65.0	18.3	71	s.	9	4.0			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.98	761.5	65.0	18.3	78	nw.	11	4.9			7					d. clouds	John Harnup.
Bolton, Sharples	29.44	747.8	29.96	761.0	68.8	20.4	76	nnw.	6	2.7			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.58	751.3	29.97	761.2	69.2	20.7	70	s.			1		4			0.04	1.0	d. clouds	McLandsborough&Preston
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	83.0	28.3	75	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.80	756.9	29.90	759.4	80.6	27.0	68	w.			0.4		3					d. clouds	John McLaren.
Chatham, School M. E.	29.85	758.2	29.97	761.2	80.9	27.2	65	sw.			1		5					d. clouds	Corpl. G. A. Pickles.
Falmouth, Observatory	29.83	757.7	30.06	763.5	65.0	18.3	65	sw.			2		4					d. clouds	The Staff.
Fort Napier, Natal	27.79	705.9	30.01	762.2	77.0	25.0	37	n.			1							blue sky	Corpl. T. Mahon, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	78.0	25.6	86	ne.			1		6					d. clouds	J. W. Smith.
Galway, Queen's College	29.84	757.9	29.87	758.7	62	16.7	77	w.			1		2			0.02	0.5	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	72.3	22.4	82	sw.			4		7					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.77	756.1	29.97	761.2	67.9	19.9	60	ssw.			2		4					d. clouds	Alex. M. Elder, Asst.
Greenwich, Royal Obs'y	29.82	757.4	29.98	761.5	78.1	25.6	58	ssw.			1		9					d. clouds	The Staff.
Guernsey	29.81	757.2	30.10	764.5	64.0	17.8	89	w.			1		4					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.96	761.0	30.00	762.0	75.7	24.3	62	sw.	9	4.0			8					d. clouds	The Staff.
Leicester, Museum	29.71	754.6	29.96	761.0	75.6	24.2	62	calm					5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.91	759.7	29.99	761.7	77.6	25.3	81	se.			2		0					blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.04	763.0	30.09	764.3	85.2	29.6	67	se.			1		8					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.48	748.8	29.98	761.5	71.9	22.2	76	nw.			1		9					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.78	756.4	30.01	762.2	72.8	22.7	72	wsw.			2		7					d. clouds	The Staff.
Plymouth	29.98	761.5	30.05	763.3	65.9	18.8	81	s.			4		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.88	758.9	29.98	761.5	60.9	16.1	58						3					d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.87	758.7	29.93	760.2	82.0	27.8	56	ne.			1		2					d. clouds	W. H. Lyne.
Sheffield	29.72	754.9	29.99	761.7	74.9	23.8	85	calm			0		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.95	760.7	29.98	761.5	67.6	19.8	70	sw.			1		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory																			W. C. Carlisle.
Truro, Royal Institution	30.05	763.3	30.14	765.5	68	20.0	60	s			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.88	758.9	29.91	759.7	61.9	16.6	75	se.	23	10.3			4					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.64	752.8	30.03	762.7	81.0	27.2	55	s.	4.4	2.0						0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.					66.0	18.9		w.	2	0.9		2 ck	0			0.04	1.0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.57	751.1	29.61	752.1	63	17.2	86	nw.	6	2.7			10 s		nw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.62	752.3	29.68	753.9	55	12.8	86	nw.	10	4.5		2 k	8 ks	nw.	nw.	0.19	4.8	cloudy	G. A. Blair.
Cornwall, Ontario	29.72	754.9	29.92	760.0	50.1	10.1	83	nw.			1		10 s			0.091	2.4	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.65	753.1	29.70	754.4	56.0	13.3		nw.			3		0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	29.74	755.4	29.77	756.1	49	9.4	83	nw.	25	11.2		0	2 s		calm	0.07	1.8	clear	J. McWilliams.
Fort Garry, Manitoba*	29.14	740.1	29.95	760.7	63	17.2	84	se.	6	2.7			10 n			0	0	hazy	James Stewart.
Fredericton, N. B	29.68	753.9	29.74	755.4	57.2	14.0	81	nw.	6	2.7			10 n			0.080	2.0	showery	Prof. Harrison, L. L. D.
Granton, Ontario	28.91	734.3	29.99	761.7	57.0	13.9	81	ne.	2	0.9		1 cs	0	n.		0	0	fine	Jas. Grant.
Halifax, N. S*	29.55	750.6	29.68	753.9	61	16.1	93	sw.	1	0.4			10 k			0	0	cloudy	A. Allison.
Hamilton, Ontario	29.58	751.3	29.96	761.0	62.9	17.2	93	e.			3	6 ck	0	e.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.62	752.3	29.95	760.7	53	11.7	57	ne.	11	4.9		0	2 s		calm	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.55	750.6	29.59	751.6	74.3	23.5	72	sw.			1	0	5 ks					drizzling	C. H. Rigby.
London, Ontario	29.11	739.4	29.99	761.7	61.7	16.5	77	calm				0	7 ks			0	0	d. clouds	E. B. Reed.
Montreal, Quebec*	29.72	754.9	29.93	760.2	54	12.2	64	n.	8	3.6		0	0			0.17	4.3	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.73	755.1	29.97	761.2	49.2	9.6		n.			2	1 k	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.36	745.7	30.06	763.5	52	11.1	72	ne.	20	8.9		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.26	743.2	30.00	762.0	54.2	12.3	43	n.			3		0			0	0	blue sky	J. Dixon, B. A.
Port Dover, Ontario	29.27	743.4	29.95	760.7	60	15.6	88	n.	15	6.7			10 n			0	0	threatening	H Morgan.
Port Stanley, Ontario	29.31	744.5	29.94	760.5	63	17.2	90	n.	2	0.9		0	5 n		ne.	0	c	cloudy	M. Payne.
Quebec, Quebec*	29.49	749.0	29.84	757.9	54	12.2	83	w.	14	6.3		0	2 ks		w.	0.20	5.1	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.58	751.3	30.04	763.0	48	8.9	71	nw.	5	2.2		0	0			0.05	1.3	clear	W. H. McIntyre.
St. Andrews, N. B.	29.64	752.8	29.69	754.1	62	16.7	79	nw.	8	3.6			10 n			0	0	cloudy	
St. John, N. B	29.51	749.5	29.67	753.6	63.0	17.2	77	n.	9	4.0		10 k	0			0.050	1.3	overcast	G. Murdock, C. E.
Saint John's, N. F.	29.50	749.3	29.75	755.6	61	16.1	83	sw.			2	0	5 s			0.10	2.5	d. clouds	J. Higgins.
St. Pierre, N. F			29.65	753.1	58.3	14.6		sw.			4					0.10	2.5		The Commandant.
Saugeen, Ontario*	29.31	744.5	30.01	762.2	56	13.3	93	ne.	14	6.3		10 k?	0			0	0	clear?	
Stratford, Ontario	28.75	730.2	30.00	762.0	57.9	14.4	75	ne.	7	3.1		0	0			0	0	blue sky	C. J. Macgregor, M A.
Sydney, C. B*	29.54	750.3	29.60	751.8	66	18.9	84	sw.	8	3.6		10 k	0	sw.		0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.63	752.6	30.01	762.2	59	15.0	70	ne.	18	8.0		2 ck	2 s	nw.	nw.	inap.	inap.	fair	Magnetic Observatory.
Windsor, N. S																			Prof. W. R. Butler, M.A.
Woodstock, Ontario	28.97	735.8	30.01	762.2	58.6	14.8	76	n.	15	6.7		10 k	0	w.		0	0	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.64	752.8	29.70	754.4	55	12.8	96	sw.	4	1.8			fg			0	0	foggy	Lt. F. E. Wilmot, R. N.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
CAPE COLONY.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	82.0	27.8	33	nw.	7.0	3.1		7 c	0			0	0	smoky	John Duthie
Springbok Fontein	28.05	712.5			62	16.7	67	ne											J. T. East Ce.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Guelny.
Tchang-kia-tchouang	29.60	751.9	29.71	754.7	80.6	27.0	54	ne.			1		8			0	0		R. P. Desurmont, S. J.
Zi-Ka-Wei, near Shanghai	29.69	754.2	29.72	754.8	80.4	26.9	89	sse.	5.6	2.5			3			0	0		M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.13	765.3	30.18	766.5	77.5	25.3	47	sse.	13	6			0						Oversergent Fischer.
Fanoe	30.07	763.7	30.09	764.2	82.9	28.3	39	sse.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.61	752.0	29.65	753.1	43.3	6.3	79	sw.			2		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.62	752.4	29.67	753.6	56.3	13.5		se.			6		0						
Stykkisholm, Iceland	29.80	756.9	29.84	758.0	47.8	8.8	88	e.			4		10					raining	A. O. Thorlacius.
Thorshavn	29.97	761.1	29.99	761.7	52.3	11.3	93	calm	0	0			10					foggy	Overloerer Bergh.
Vestervig	30.00	762.0	30.09	764.3	78.6	25.9	59	calm			0		4						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.76	755.9			91.8	33.2	18	wnw.	5.8	2.6		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.61	752.0	30.23	767.9	71.2	21.8	89	nnw.			1		kn;n		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.58	751.3	30.13	765.3	72.7	22.6	75	sw.			1		n		ne.	0.291	7.4		M. Nicot, Director.
Arras, Engineer School																			M. Fénéon, Command't.
Avignon, Normal School	30.02	762.4	30.10	764.4	83.8	28.8	52	sw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.53	750.1	30.05	763.6	79.5	26.4	56	wnw.			2	5 c	0			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.80	756.8	30.05	763.4	79.9	26.6	50	nw.			1		8		s.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.15	740.3	30.01	762.3	77.0	25	68	sw.			2	2 c	0		s.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.91	759.8	30.16	766.1	73.4	23.0	52	nw.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.57	751.1	30.10	764.5	75.2	24	62	ssw.			2		k		ssw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.89	759.3	30.14	765.5	71.2	21.8	73	sw.			2		4		sw.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.00	762.1	30.08	763.9	68.7	20.4	73	nw.			1		5		nw	1.02	26.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.73	755.1	30.04	762.9	84.7	29.3	76	ssw.			2		2		w.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.50	749.4	29.99	761.8	88.9	31.6	47	se.			1		0			0	0	clear	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.78	730.9	30.08	763.9	76.3	24.6	47	n.			2	0	8 k			0.177	4.5	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.26	743.3	30.11	764.8	81.0	27.2	43	nw.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.20	741.6	30.01	762.2	78.4	25.8	52	se.			1		kn	se.	se.	0	0	thunder	Dr. Coulet, Director.
Gap, Normal School	27.64	702.0	30.10	764.4	73.0	22.8	55	e.			1	0	7 kn			0.31	8.		M. Jeangirard, Director.
Grésque, du Rhone	28.99	736.4	30.08	764.0	77.7	25.4	51	s.			3		7		s.	0	0		M. Kina, Director.
Grenoble. Normal School	29.34	745.3	30.08	764.1	77.4	25.2	61	ese.			1	ck	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.62	727.0	30.21	767.2	77.0	25	48	sw.			1				wnw.	0	0		M. Delorme, Dir.
Lamballe, Normal School	29.83	757.7	30.08	764.0	68.0	20	74	sw.					k		sw.	0	0	foggy	M. Ollitrault, Director.
Lescar, Normal School	29.60	751.9	30.15	765.8	71.4	21.9	73	w.			1	0	5 n			0.591	15.0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.05	763.2	30.15	765.8	70.2	21.2	58	s.			2		2	sw.		0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.1	30.08	763.9	79.9	26.6	32	nne.			1	2 c	0			0	0	clear	M. André, Director.
Mans, Normal School	29.84	758.0	30.15	765.7	69.3	20.7	70	nw.			1		8		w.	0	0	very cloudy	M. Piboën, Director.
Marseille, Observatory	29.84	758.0	30.11	764.7	77.0	25.0	60	wsw.			1		4		ssw.	0	0		M. Stephan, Director.
Montlouis	24.85	631.1	29.69	754.1	67.3	19.6	8	w.	11.2	5.0			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.2	30.05	763.3	81.3	27.4	71	se.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.27	743.4	30.01	762.2	83.5	28.6	56	ssw.			2		kn		w.	0	0		M. Hasse, Director.
Nantes, Observatory	30.02	762.4	30.18	766.6	70.3	21.4	57	w.			0–1	c	9 kn;n		wsw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.00	762.1	30.11	764.8	81.1	27.3	41	n.	3.8	1.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.44	544.5			48.9	9.4		s.			1		5		s.	0.394	10.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.05	737.9	30.06	763.5	83.8	28.8	34	se.			1	0	2 k		s.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.36	644.2			55.2	12.9	88	nnw.			2		8			0.173	4.4	stormy	M. Alluard.
Rochefort, Naval Obs'y	30.13	765.3	30.16	766.1	77.0	25.0	51	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.91	759.7	30.12	765.0	72.7	22.6	63	nw.			1		5		e.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.04	712.2	30.11	764.7	75.9	24.4		nw.			2	0	5 kn		se.	0	0	fair	M. Seger, Director.
Rouen, Normal School	30.06	763.5	30.11	764.7	67.6	19.8	73	wnw.			3		5	w.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.93	760.1	30.09	764.2	71.8	22.1	73	sw.			2		10		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.51	749.6	30.24	768.1	70.3	21.3	71	n.			2		10	nw.		0.532	13.5	covered	M. Bailland, Director.
Tours	29.98	761.6	30.16	766.1	75.2	24.0	55	wsw.			2		5		wsw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.59	751.6	30.08	764.1	69.8	21.0	76	w.			2					0	0		Dr. A. Bérigny, Director
Sub-series.																			
St. Martin du Hinx	30.04	763.1	30.19	766.9	71.2	21.8	77	w.	5.8	2.6		0	8 k		e.	0.465	11.8		M. Cartier, Director.
GERMAN.																			
Ansbach	28.67	728.2	30.05	763.2	78.8	26.0	38	e.			2			e.		0	0		Prof. Jnedt.
Bamberg	29.21	742.0	30.06	763.5	82.8	28.2	40	se.			4	0	1 s			0	0		Prof. Dr. Hoh.
Berlin	30.01	762.2	30.14	765.6	86.4	30.2	25	se.			1		2			0	0		Dr. Sensch.
Breslau	29.70	754.3	30.23	767.9	80.4	26.9	34	ese.			3		0			0	0		Royal University Obs'y.
Carlsruhe	29.60	751.7	30.03	762.8	82.8	28.2	46	e.			1		1	se.		0	0		Albert Senz.
Cassel	29.37	746.0	30.08	764.1	90.3	32.4	28	se.			4		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main			30.01	762.3	83.3	28.5	23	se.			2		1			0	0		Physical Society.
Friedrichshafen	28.69	728.6	30.04	763.0	76.3	24.6	70	ssw.			1		2	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.00	762.1	30.10	764.4	83.1	28.4	51	se.			3		1			0	0		E. Preller.
Kiel	30.08	763.9	30.09	764.3	79.9	26.6	36	se.			1		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.72	754.8	30.11	764.9	83.5	28.6	33	se.			3		3	se.		0	0		H. Leppig, Asst.
Magdeburg	29.93	760.2	30.11	764.8	86.0	30.0	32	se.			2		0			0	0		Weather Observatory
Memel	30.25	768.4	30.30	769.6	71.8	22.1	69	wnw.			2	0	0					clear	Issermann.
Munich	28.28	718.2	30.15	765.7	73.2	22.9	54	ne.			1		1	ne.		0	0		Central Station.
Neufahrwasser	30.24	768.0	30.25	768.4	79.9	26.6	54	e.			2		3	sw.		0	0		A. Lothes.
Neustadt, Palatinate	29.50	749.4	30.03	762.8	82.8	28.2	40	e.			2		0			0	0		Dicknether.
Stuttgart	29.11	739.3	29.95	760.8	79.7	26.5	37	e.			1		1	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.16	766.1	30.19	766.8	76.8	24.9	58	se.			2	0	3 k			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.57	751.0	29.94	760.5	74.7	23.7		n.			1.5		9			0.012	0.3	light rain	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.49	749.0	29.54	750.2	89.5	31.9	71	s.	34.0	15.2			3		s.	0	0	d. clouds	
Deesa	29.12	739.6	29.58	751.3	92.4	33.6	50	ssw.	16.0	7.2			4	ssw.	ssw.	0.03	0.8	d. clouds	
Bombay	29.70	754.4	29.74	755.4	84.0	28.9	84	wsw.	15.0	6.7			10	s.	w.	1.07	27.2	overcast	
Poona, Yarrowda	27.91	708.9	29.77	756.1	76.3	24.6	84	sw.	17.0	7.6			10			0.29	7.4	overcast	
Trichinopoly	29.52	749.8	29.80	756.8	91.6	33.1	49	w.	2.0	0.9			5	nne.	nne.	0	0	d. clouds	
Belgaum	27.26	692.4	29.82	757.3	71.0	21.7	91	w.	10.0	4.5			10	s.	w.	0.62	15.7	d. clouds	
Lahore	28.79	731.2	29.52	749.8	84.2	29.0	77	e.	3.0	1.3			10			0.53	13.5	overcast	
Roorkee	28.73	729.7	29.62	752.3	80.8	27.1	90	se.	5.0	2.2			6		s.	3.10	78.7	gloomy	
Agra	29.07	738.3	29.63	752.5	81.7	27.6	50	ne.	2.0	0.9			10		ne.	0.23	5.8	overcast	
Nagpur	28.52	724.3	29.54	750.2	86.2	30.1	60	nw.	22.0	9.8			9		w.	0	0	gloomy	
Jubbulpore	28.21	716.6	29.55	750.6	81.5	27.5	82	n.	4.0	1.8			10		nw.	0.65	16.5	overcast	
Lucknow	29.22	742.2	29.59	751.6	91.1	32.8	62	ene.	4.0	1.8			0			0.94	23.9	blue sky	
Allahabad	29.21	742.0	29.51	749.6	92.7	33.7	52	ne.	8.0	3.6			6		e.	0	0	overcast	
Patna	29.37	746.0	29.55	750.7	85.2	29.6	73	e.	11.8	5.3			8	e.	e.	0.06	1.5	d. clouds	
Hazaribagh	27.48	698.1	29.48	748.9	74.6	23.7	90	e.	20.4	9.1			10		e.	0.49	12.4	drizzling	
Cuttack	29.36	745.6	29.44	747.7	80.0	26.7	77	wnw.	10.0	4.5			9		w.	1.47	37.3	d. clouds	
Calcutta, Alipore	29.51	749.6	29.54	750.2	81.7	27.6	89	sse.	9.0	4.0			10	se.		0.87	22.1	overcast	
Dhubri	29.52	749.8	29.64	752.8	84.4	29.1	77	calm	2.2	1.0			2	ese.		0	0	d. clouds	
Chittagong	29.60	751.9	29.69	754.2	78.7	25.9	92	e.	7.4	3.2			10			0	0	overcast	
Sibsagar	29.30	744.3	29.63	752.6	88.4	31.3	75	sw.	2.0	0.9			0			0	0	blue sky	
Teypore	28.22	716.7	29.65	753.1	80.8	27.1	72	e.	7.8	3.5			10	e.	e.	0	0	overcast	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Zanzibar	30.04	763.1	30.07	763.7	81.7	27.6	57	ssw.	10.4	4.6			5	e.		0	0	d. clouds	
Bellary	28.24	717.3			85.0	29.4	55	w.	8	3.6		4 ck	3			0	0	d. clouds	
ITALIAN.																			
Udine	29.71	754.7	30.11	764.8	80.2	26.8	36	se.	0.7	0.3			3			0	0		Prof. Giovanni Clodig.
Milan	29.61	752.0	30.11	764.7	81.5	27.5	35	se.	3.8	1.7			2	ne.		0	0		Prof. G. V. Schiapparelli.
Padua	30.01	762.2	30.11	764.9	77.7	25.4	32	ne.	7.4	3.3			2	n.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.23	742.4	30.11	764.7	77.2	25.1	46	nw.	2.5	1.1			8	n.		0	0		Prof. F. F. Denza.
Genoa	29.91	759.6	30.09	764.3	76.6	24.8	54	n.	3.8	1.7			8	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.25	717.5	30.10	764.6	70.9	21.6	58	se.			2		8	se.		0	0		Prof. D. C. Bruno.
Pesaro	30.07	763.8	30.12	765.0	73.8	23.2	73	e.	9.8	4.4			2			0	0		Prof. Luigi Guidi.
Florence	29.81	757.1	30.06	763.5	80.6	27.0	42	ne.			2		4			0	0		Prof. Costantino Pittei.
Leghorn	29.94	760.5	30.02	762.6	77.2	25.1	58	nnw.	8.1	3.6			3	ne.		0	0		Prof. P. Monte.
Rome	29.84	758.0	30.01	762.3	81.7	27.6	34	sw.	3.1	1.4			4			0	0		Prof. P. Tacchini.
Lecce	29.76	755.9	30.00	762.1	74.5	23.6	49	ne.	11.2	5.0			2	ne.		1.161	29.5		Prof. C. de Giorgi.
Cosenza	29.11	739.5	29.97	761.1	82.4	28.0	66	wsw.	3.8	1.7			4	sw.		0	0		Prof. D. Conti.
Cagliari	29.79	756.6	29.98	761.4	75.9	24.4	65	se.			4		3			0.591	15.0		Prof. A. Pacinotti.
Palermo	29.77	756.1	30.01	762.3	76.1	24.5	60	ne.	8.7	3.8			1			0	0		Prof. G. Caccatore.
Syracuse	29.93	760.2	29.97	761.3	80.4	26.9	77	e.	1.8	0.8			6	w.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.49	749.1	30.00	761.9	79.7	26.5	55	ne.	1.8	0.8			5	ne.		0.343	8.7		Prof. F. Brioschi.
Stelvio	22.37	568.1			50.2	10.1	57	ne.			2		6			0.185	4.7	misty	Prof. P. F. Denza.
Valdobbia	22.43	569.7			47.7	8.7	75	e.			2		10			0.079	2.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Akita	29.82	757.5	29.85	758.4	66.0	18.9	87	w.			2	9 ck	0	w.		0	0	cloudy	H. Hattori.
Awomori	29.80	756.9	29.84	757.9	65.0	18.3	85	nw.	1.2	0.5		0	1 s			0	0	clear	K. Ogawa.
Hamamatsu	29.87	758.7	29.90	759.4	72.0	22.2	92	se.			2		10 n			0.291	7.4	raining	Y. Sekigawa.
Kanazawa	29.74	755.3	29.84	757.8	72.7	22.2	73	e.	5.5	2.4			10ck;ks			0	0	overcast	S. Endo.
Kagoshima	29.85	758.1	29.86	758.4	80.5	26.9	80	wsw.			4		9 s			0.126	3.2	cloudy	G. Miyanohaza.
Kioto	29.66	753.3	29.83	757.7	70.6	21.4	92	wsw.	1.3	0.5			10 n			0.679	17.2	light rain	M. Tojima.
Kochi	29.80	756.8	29.82	757.3	69.9	21.1	96	wnw.	6.7	2.9			10 n			1.25	31.8	raining	K. Kusunose.
Miasaka	29.80	756.8	29.82	757.5	78.0	25.6	83	sw.			2		9s;ks		w.	0.177	4.5	cloudy	K. Masuzaki.
Miyako	29.76	755.9	29.87	758.7	60.0	15.6	99	w.	0.5	0.2		9 cs	0			0	0	cloudy	N. Honno.
Nagasaki, I. M. Obs'y	29.60	751.8	29.80	756.9	76.3	24.6	95	sw.	14.4	6.4			10 n			1.470	62.7	raining	S. Takehayashi.
Niigata	29.82	757.4	29.86	758.4	67.6	19.8	89	e.	0.7	0.3		0	2 ks		w.	0	0	fair	M. Morita.
Nobiru	29.83	757.7	29.85	758.1	67.1	19.5	98	sse.	0.3	0.1			10 s			0.430	10.9	covered	H. Midzushina.
Numazu	29.86	758.4	29.90	759.4	72.8	22.7	82	wsw.			2	7 cs; c	3 ks			0.236	6.0	cloudy	R. Kaneda.
Osaka	29.81	757.2	29.83	757.6	70.0	21.1	94	ne.	8.1	3.6			10 n			0.625	15.9	light rain	H. Omura.
Sakai	29.79	756.5	29.80	756.7	70.7	21.5	79	n.			2		10 ks		wnw.	0.122	3.1	cloudy	K. Yamawchi.
Tokei Obs'y, Yeddo	29.80	756.8	29.87	758.6	71.8	22.1	84	s.	15.6	7.0			10 s			0.016	0.4	cloudy	The Staff.
Wakayama	29.76	755.9	29.81	757.2	71.1	21.7	92	calm	0	0			10 n			0.811	20.6	raining	K. Sakai.
Shimonoseki	29.64	752.8	29.78	756.4	70.1	21.2	99	ne.			2		10 n			0.941	23.9	raining	S. Sakaro.
MAURITIUS.																			
Mauritius Observatory	30.02	762.5	30.21	767.3	72.0	22.2	79	e.	19.5	8.7			10 ks		ese.	0.45	11.4	overcast	The Staff.
MEXICAN.																			
Guanajuato	23.68	601.6	29.90	759.6	60.3	15.7	97	calm	0	0			10 n		sse.	2.025	51.4	cloudy	Prof. Vicente Fernandez
Leon	24.32	617.7	29.97	761.2	59.0	15.0	93	n.	0.9	0.4			10 n			1.432	36.4	raining	Prof. M. Leal.
Mazatlan	29.68	753.9	29.94	760.5	73.0	22.8	93	ne.	1.6	0.8			10 n		ne.	1.260	32.0	raining	F. Quijano, C. E.
Mexico, Central Obs'y																			The Staff.
Morelia																			M. Tena, M. D.
Pabellon																			M. V. de Leon, M. E.
Puebla, Catholic Institute																			Prof. P. Spina.
Sub-series.																			
Altata					76	24.4	85	se.	7.6	3.4		9 ck	0	s.		0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.00	761.9	30.00	761.9	81.9	27.7		e.			3					0	0		
Groningen	29.96	760.9	30.01	762.3	83.1	28.4		s.			1					0	0		
Helder	30.00	762.0	30.00	762.0	77.0	25.0		nnw.			1					0	0		
Hellevoetsluis	30.00	761.9	30.00	761.9	83.3	28.5	52	ese.			1					0	0		
Utrecht	29.96	761.0	30.01	762.2	87.4	30.8	41	sse.			3		2			0	0	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.3			76.3	24.6	87	nnw.	1.5	0.7			10			0	0		Lt. J. J. Roptman.
NORWEGIAN.																			
Bergen	30.04	763.0	30.10	764.6	65.5	18.6	79	s.	11	5			8			0.575	14.6		
Brono	30.07	763.8	30.11	764.8	57.2	14.0	92	calm			0		10			0.217	5.5	rain & fog	
Christiania	29.97	761.2	30.11	764.8	76.1	24.5	53	ssw.	9	4			3			0	0		
Gjæsvær	30.01	762.2	30.03	762.8	52.5	11.4		sw.			4		10						
Lodingen	29.98	761.6	30.03	762.8	60.8	16.0	79	sw.			1		10			0.008	0.2		
PORTUGUESE.																			
Angra, Azores	29.95	760.7	30.11	764.7	65.8	18.8	70	ese.	9.8	4.4			2			0.177	4.5		Dr. J. A. Sampaio.
Campo Major	29.14	740.1	30.11	764.7	76.6	24.8	40	wnw.	3.1	1.4			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Madeira	30.16	766.0	30.24	768.2	71.1	21.7	73	sw.	8.1	3.6			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.2	30.18	766.6	68.9	20.5	70	sse.	6.3	2.8			1			0	0		The Staff.
Ponta Delgada, Azores	30.08	764.0	30.15	765.8	74.5	23.6	61	wsw.	3.1	1.4			4			0	0		
Saint Paul de Loanda	29.82	757.5	30.02	762.6	75.2	24.0	70	wnw.			1		0			0	0		
San Salvador	28.17	715.0	30.06	763.5	64.6	18.1	86	s.			1		10			0	0		
Serra da Estrella	25.46	646.6	30.11	764.8	58.6	14.8	87	ese.	11.2	5.0			2			0	0		
RUSSIAN.																			
Akmolinski	28.64	727.5	29.69	754.2	58.3	14.6	31	nw.	13	6		0	5 k			0.094	2.4		Major K. Lasarew.
Archangel	29.91	759.7	29.93	760.2	57.9	14.4	63	n.	4	2		0	2 ks			0	0		Capt. Sseliwerstow
Ashuruda	29.99	761.7	29.89	759.3	81.0	27.2	76	w.	7	3		7 ck	0			0.016	0.4		
Astrakhan	30.08	764.0	30.00	761.9	87.1	30.6	33	sw.	7	3		0	2 k			0	0		Capt. Wisganow.
Baku	30.00	762.0	29.95	760.8	76.6	24.8	57	n.	22	10		0	3 ks			0	0		
Barnaul	29.00	736.0	29.48	748.9	57.9	14.4	41	sw.	13	6			10			0.110	2.8		Meteorological Obs'y
Bieloserk	29.42	747.2	29.87	758.7	62.1	16.7	91	wnw.	10	7		0	6 ks			0.240	6.1	hazy	
Dorpat	29.87	758.8	30.11	764.7	78.1	25.6	55	w.	11	5		8 ck	0			0	0		Observatory.
Ekaterinburg	28.81	731.7	29.75	755.6	58.1	14.5	41	w.	9	4		0	7 k;ks			blank	blank		Meteorological Obs'y
Elissawetgrad	29.69	754.0	30.11	764.9	82.4	28.0	31	e.	9	4		0	6 ks			0	0		
Irkutsk	27.97	710.5	29.57	751.1	54.3	12.4	87	nw.	11	5			10			0.650	16.5		
Kasalinsk																			
Kasan	29.48	748.8	29.74	755.4	65.1	18.4	75	sw.	2	1			10 n			blank	blank		Observatory.
Kem	29.84	757.8	29.89	759.1	61.2	16.2	87	ne.	18	8		0	8 ks			0.110	2.8		
Kertch	29.97	761.2	29.99	761.8	77.9	25.5	55	ne.	11	5		0	1 k			0	0		Lagorio & Sastyrea.
Kieff	29.52	749.8	30.13	765.2	78.6	25.9	38	n.	9	4		0	4 k;ks			0	0		Observatory.
Koslov	29.41	747.0	29.92	760.0	77.2	25.1	47	wnw.	9	4		0	6 k			0	0		
Libau	30.22	767.7	30.25	768.3	68.7	20.4	68	sw.	7	3			0			0	0		E. Quaas.
Lugan	29.81	757.1	29.98	761.5	82.0	27.8	33	ne.	9	4			5			0	0		Meteorological Obs'y.
Moscow	29.54	750.3	30.00	761.9	66.7	19.3	73	nw.	6.7	3.0			9 n					raining	Meteorological Obs'y
Nikolaiev	30.00	761.9	30.07	763.8	82.4	28.0	41	se.	4	2		0	8 n			0.059	1.5		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.48	748.8	29.57	751.0	59.9	15.5	90	e.	4	2			10			0	0		Iwanow.
Pekin, China	29.53	750.0	29.07	753.6	84.7	29.3	53	calm	0	0		0	5 ks			0	0		Physical Observatory.
Petro-Alexandrovsk	29.56	750.7	29.89	759.1	88.0	31.1	14	n.	4.5	2.0			0			0	0		
Petrozavodsk	29.66	753.3	29.85	758.1	71.6	22.0	51	n.	16	7		0	7 ks			0	0		Dr. Bergmann.
Pinsk	29.72	754.9	30.19	766.9	81.7	27.6	44	sse.	4	2		0	3 k			0	0		
Poti	29.89	759.3	29.93	760.1	74.1	23.4	80	nnw.	4	2			10 n			1.555	39.5		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
St. Petersburg	30.00	761.9	30.02	762.5	68.7	20.4	67	wnw.	16	7	.....	cs	7 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.42	696.5	29.73	755.1	85.1	29.5	34	ne.	13	6	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.11	739.3	29.73	755.7	58.8	14.9	62	nw.	20	9	.....	.....	3	.....	.....	0.098	2.5	.....	Major Lasarew
Sevastopol	29.76	755.8	29.97	761.3	82.6	28.1	44	sw.	20	9	.....	0	3 n	.....	.....	0	0	.....	
Staroi Bykhov	29.77	756.1	30.21	767.2	80.0	26.7	34	nnw.	11	5	.....	0	6 k	.....	.....	0	0	.....	
Tashkend	28.13	714.4	29.67	753.6	88.2	31.2	26	nw.	7	3	.....	cs	7 k	.....	.....	0	0	light clouds	Torch, A. M.
Tiflis	28.56	725.3	29.90	759.5	80.1	26.7	44	sse.	2	1	.....	.....	9 ks	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.28	692.8	29.65	753.8	75.6	24.2	50	ne.	7	3	.....	0	7 n	.....	.....	0	0	.....	
Viatka	29.07	738.4	29.68	753.8	65.5	18.6	76	calm	0	0	.....	.....	6	.....	.....	0.524	13.3	.....	
Warsaw	29.82	757.4	30.22	767.6	81.7	27.6	36	ese.	4	2	.....	0	4 k	.....	.....	0	0	.....	Astronomical Obs'y.
Yenisoisk	29.15	740.3	29.42	747.2	64.8	18.2	54	sw	13	6	.....	.....	5	.....	.....	0.146	3.7	.....	M. O. Marks.
SCOTTISH.																			
Monach Lt	.....	.....	29.93	760.2	61	16.1	94	s.	.....	.....	4	5	5	s.	.....	0	0	cloudy	J. Youngclauss.
North Unst	.....	.....	29.96	761.0	.....	.....	.....	w.	.....	.....	3	2	2	sw.	.....	.....	.....	.....	Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.04	763.0	30.14	765.6	78.8	26.0	64	sw.	1.3	0.6	.....	0	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.21	767.2	30.26	768.7	81.0	27.2	56	se.	2.0	0.9	.....	3	3	sw.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.1	30.06	763.5	75.2	24.0	46	sw.	4.9	2.2	.....	0	3	.....	.....	0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.92	709.2	30.05	763.2	81.1	27.3	26	s.	4.9	2.2	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	29.95	760.6	30.08	763.9	81.0	27.2	55	e.	3.1	1.4	.....	0	1	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.39	746.6	30.15	765.9	63.5	17.5	77	n	5.6	2.5	.....	10 n	2 n	n.	w.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.21	742.0	30.09	764.2	68.4	20.2	74	sw.	4.9	2.2	.....	.....	2	.....	.....	0.087	2.2	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	760.9	30.02	762.5	80.9	27.2	80	ese.	1.1	0.5	.....	cs	ks	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.8	29.89	759.3	82.3	27.9	80	se.	9.9	4.4	.....	1 c	1 ks	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.3	30.15	765.8	75.0	23.9	61	wnw.	14.3	6.4	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.5	30.11	764.8	83.1	28.4	89	se.	2.7	1.2	.....	2 cs	4 kn	se.	se.	0.031	0.8	cloudy	Enrique Gadea, Chf Eng'r
SWEDISH.																			
Haparanda	30.00	762.0	30.04	763.0	73.8	23.2	55	sw.	.....	.....	2	.....	8	.....	.....	0	0	.....	
Umea	29.79	756.7	29.84	758.0	84.9	29.4	28	nw.	.....	.....	4	.....	6	.....	.....	0.354	9.0	.....	
Hernosand	29.87	758.6	29.92	759.9	75.2	24.0	42	sw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Stockholm	29.97	761.3	30.15	765.8	79.0	26.1	36	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	30.14	765.5	30.20	767.0	70.5	21.4	64	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.00	762.1	30.09	764.3	82.4	28.0	38	w.	5.6	2.5	.....	.....	1	.....	wnw.	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.70	728.9	30.04	763.1	81.7	27.6	36	sw.	.....	.....	1	.....	8	.....	.....	0.055	1.4	covered	The Observatory.
TURKISH.																			
Constantinople	.....	.....	29.98	761.5	75.7	24.3	61	n.	18	8.0	.....	.....	5	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.15	765.7	76.1	24.5	.....	w.	.....	.....	1	.....	5	.....	.....	0.39	10.	stormy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.87	758.8	82.0	27.8	57	wsw.	.....	.....	2	.....	4 k	.....	wsw.	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.84	681.7	.....	.....	65	18.3	78	.....	.....	.....	.....	.....	.....	.....	.....	0	0	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.76	755.9	29.84	757.9	66.5	19.2	75	n.	9	4.0	.....	.....	10 ks	.....	w.	1.32	33.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.45	748.0	30.10	764.5	57	13.9	74	e.	11	4.9	.....	0	3 s	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.16	639.1	29.91	759.7	55	12.8	83	e.	5	2.2	.....	0	0	.....	.....	0.02	0.5	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.02	686.3	29.81	757.2	76	24.4	43	sw.	20	8.9	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.83	732.3	29.98	761.5	69.0	20.6	81	w.	6	2.7	.....	.....	10 s	.....	w.	0.07	1.8	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.78	756.4	29.79	756.7	72	22.2	82	w.	6	2.7	.....	7 ck	0	.....	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.77	756.1	29.96	761.0	74.0	23.3	71	sw.	2	0.9	.....	5 cs	2 s	w.	.....	0	0	fair	John Healy.
Baltimore, Maryland	29.79	756.7	29.84	757.9	72	22.2	76	nw.	4	1.8	.....	2 ck	0	w.	.....	0.09	2.3	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.76	755.9	29.78	756.4	75.0	23.9	84	w.	4	1.8	.....	3 c	0	.....	.....	0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.42	747.3	29.44	747.8	40.2	4.6	98	n.	7	3.1	.....	.....	10 n	.....	.....	0.30	7.6	light rain	Dr. Leonard Steineger.
Bennett, Fort, Dakota	28.37	720.6	29.91	759.7	74.0	23.3	82	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.08	687.8	29.85	758.2	73	22.8	48	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Billings, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. Gibson.
Bismarck, Dakota	28.08	713.2	29.84	757.9	75	23.9	82	se.	5	2.2	.....	1 cs	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.76	755.9	29.80	756.9	68	20.0	100	w.	5	2.2	.....	.....	fg.	.....	.....	0	0	dense fog	J. T. Elker.
Boise City, Idaho	27.22	691.4	30.00	762.0	60	15.6	.....	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Kenealy.
Boston, Massachusetts	29.60	751.8	29.75	755.6	71.0	21.7	76	w.	8	3.6	.....	3 ck	1 s	.....	.....	0.43	10.9	fair	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	73.0	22.8	97	e.	4	1.8	.....	.....	10 s	.....	s.	0.28	7.1	cloudy	E. C. Imlay.
Buffalo, New York	29.22	742.2	29.96	761.0	59.2	15.1	74	ne.	10	4.5	.....	.....	10 s	.....	ne.	0	0	cloudy	W. Finn.
Buford, Fort, Dakota	27.86	707.6	29.82	757.4	68	20.0	84	w.	4	1.8	.....	3 ck	5 s	nw.	w.	0	0	cloudy	A. Schneider.
Burlington, Vermont	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. N. Farnell.
Cairo, Illinois	29.61	752.1	30.00	762.0	74.8	23.8	83	w.	6	2.7	.....	0	4 ks	.....	nw.	0	0	threatening	W. H. Ray.
Cape Henry, Virginia	29.83	757.7	29.85	758.2	72.0	22.2	84	se.	9	4.0	.....	0	0	.....	.....	0.08	2.0	clear	A. K. Alderson.
Cape May, New Jersey	29.78	756.4	29.81	757.2	70.0	21.1	93	w.	6	2.7	.....	.....	9 s	.....	w.	0.03	0.8	cloudy	W. E. Smith.
Cape Mendocino, California	29.42	747.3	30.10	764.5	51	10.6	72	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	81	27.2	74	w.	9	4.0	.....	2 c	7 k	.....	w.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	29.88	758.9	29.93	760.2	83	28.3	60	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.07	738.4	29.90	759.4	68.0	20.0	90	w.	1	0.4	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.18	741.2	29.99	761.7	75.5	24.2	71	w.	5	2.2	.....	2 cs	0	.....	.....	0.06	1.5	clear	B. L. Goulding.
Cheyenne, Wyoming	24.22	615.2	29.96	761.0	56.4	13.6	45	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.34	745.2	30.03	762.7	56.2	13.4	73	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	John Laurens.
Chincoteague, Virginia	29.79	756.7	29.81	757.2	71	21.7	94	w.	4	1.8	.....	0	9 k; n	.....	.....	0.34	8.6	light rain	C. F. Dickens.
Cincinnati, Ohio	29.32	744.7	29.97	761.2	69.0	20.6	84	e.	1	0.4	.....	0	0	.....	.....	0.55	14.0	clear	L. Dunne.
Cleveland, Ohio	29.23	742.4	29.96	761.0	64	17.8	84	ne.	9	4.0	.....	.....	10 s	.....	ne.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.30	718.8	30.05	763.3	68	20.0	84	calm	0	0	.....	5 k	0	.....	.....	0	0	fair	T. J. Kenan.
Columbus, Ohio	29.11	739.4	29.95	760.7	66	18.9	78	nw.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	D. Cuthbertson.
Concho, Fort, Texas	28.16	715.3	30.04	763.0	70.0	21.1	82	calm	0	0	.....	5 cs	0	.....	.....	0	0	fair	J. McGlone.
Davenport, Iowa	29.40	746.7	30.04	763.0	63	17.2	63	ne.	6	2.7	.....	1 ck	hz.	nw.	.....	0.06	1.5	clear	R. R. Martin.
Davis, Fort, Texas	25.34	643.6	29.95	760.7	63	17.2	75	ne.	3	1.3	.....	0	0	.....	.....	0.01	0.3	clear	J. Williams.
Dayton, Washington T'y	28.41	721.6	30.15	765.8	59.5	15.3	46	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. Moore.
Deadwood, Dakota	25.42	645.7	29.86	758.4	68	20.0	66	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. Willson.
Delaware Breakwater, Del	29.80	756.9	29.82	757.4	68	20.0	100	w.	4	1.8	.....	.....	10 s; fg	.....	s.	0.02	0.5	cloudy	T. S. Townsend.
Denver, Colorado	24.90	632.4	29.94	760.5	65.5	18.6	39	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.06	763.5	70	21.1	87	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.30	744.2	29.99	761.7	63.0	17.2	84	n.	10	4.5	.....	1 c	0	n.	.....	0	0	clear	E. R. Bruce.
Dodge City, Kansas	27.44	697.0	29.94	760.5	67	19.4	70	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Dubuque, Iowa	29.38	746.2	30.08	764.0	66.3	19.1	62	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.37	746.0	30.10	764.5	61	16.1	78	n.	3	1.3	.....	0	3 k	.....	n.	0	0	clear	N. B. Conger.
Eagle Pass, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. Belford.
Eagle Rock, Idaho	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. R. Boynton.
Eastport, Maine	29.65	753.1	29.72	754.9	58.0	14.4	74	nw.	13	5.8	.....	.....	10 s	.....	w.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.37	695.2	30.04	763.0	56	13.3	53	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.38	670.0	29.97	761.2	70.0	21.1	55	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.21	741.9	29.93	760.2	64	17.8	90	ne.	11	4.9	.....	.....	10 s	.....	ne.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.44	747.8	30.09	764.2	57.0	13.9	86	nw.	4	1.8	.....	hz.	hz.	.....	.....	0	0	dense haze	George Heathcote.
Galveston, Texas	30.03	762.7	30.07	763.8	78	25.6	82	calm	0	0	.....	6 cs	2 ks	.....	sw.	0.23	5.8	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.38	746.2	30.02	762.5	63.5	17.5	78	n.	9	4.0	.....	0	7 ks	.....	nw.	0	0	fair	J. E. Mueller.
Grant, Fort, Arizona	.....	.....	.....	.....	71.1	21.7	57	se.	2	0.9	.....	0	0	.....	.....	1.26	32.0	clear	Robert C. Lord.
Hatteras, North Carolina	29.84	757.9	29.86	758.4	78.5	25.8	88	w.	3	1.3	.....	3 c	fg.	w.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.84	656.3	29.96	761.0	79	26.1	60	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. W. Dodge.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.64	727.4	29.98	761.5	70	21.1	86	se.	15	6.7		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.17	740.9	29.95	760.9	71.2	21.8	76	n.	4	1.8		0	4 k		w.	0	0	fair	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.03	762.7	77.3	25.2	96	ne.	12	5.4		4 cs	4 ks	nw.	s.	inap.	inap.	cloudy	I. A. Reed.
Jacksonville Florida	29.99	761.7	30.03	762.7	79.5	26.4	74	sw.	4	1.8		5 cs	0	sw.		0	0	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.37	746.0	30.01	762.2	67.0	19.4	73	ne.	7	3.1		7 k	0			0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	87.0	30.6	68	calm	0	0		4 cs	2 k		e.	0.58	14.7	fair	Lee M. Melbourne.
Kittyhawk, North Carolina	29.86	758.4	29.88	758.9	74	23.3	76	sw.	10	4.5		0	9 s		sw.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.95	735.3	29.96	761.0	67.8	19.9	92	sw.	2	0 9		0	8 ks		nw.	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.31	744.5	30.07	763.8	72	22.2	57	se.	1	0.4		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.16	740.7	30.02	762.5	74	23.3	68	n.	1	0.4		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.23	742.4	30.05	763.3	72.0	22.2	32	nw.	8	3.6		0	0			0	0	clear	H. S. Blandford.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	69	20.6	78	w.	3	1.3		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.58	751.3	29.97	761.2	63	17.2	93	calm	0	0			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.37	746.0	29.92	760.0	72	22.2	84	w.	2	0.9		0	0			inap.	inap.	clear	L. M. Dey.
Lynchburg, Virginia	29.19	741.4	29.86	758.4	72	22.2	66	nw.	5	2.2		0	0			0.01	0.3	clear	Louis Duane.
Mackinaw City, Michigan	29.43	747.5	30.07	763.8	58.0	14.4	74	ne.	5	2.2		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.86	758.4	29.87	758.7	76.0	24.4	76	w.	8	3.6		2 cs	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.53	648.5	29.86	758.4	70	21.1	31	w.	24	10.7		0	0			inap.	inap.	clear	F. Burke.
Marquette, Michigan	29.39	746.5	30.11	764.8	57	13.9	64	nw.	1	0.4		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.67	753.6	30.00	762.0	75	23.9	71	calm	0	0		1 c	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.33	745.0	30.07	763.8	59	15.0	65	ne.	14	6.3		0	0			0.18	4.6	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.04	763.0	30.08	764.0	73.7	23.2	86	sw.	2	0.9		0	0			0.01	0.3	clear	C. A. Read.
Montgomery, Alabama	29.78	756.4	30.00	762.0	74	23.3	83	sw.	1	0.4		0	3 k		w.	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.00	736.6	29.97	761.2	60	15.6	70	s.	10	4.5		0	0			0	0	clear	H. White.
Mt. Washington, N. H.	23.63	600.2	29.75	755.6	36.0	2.2	92	nw.	56	25.0		2 k	0	nw.		0.26	6.6	clear	S. W. Beall.
Nashville, Tennessee	29.39	746.5	29.95	760.7	77.0	25.0	74	w.	10	4.5		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.67	753.6	29.78	756.4	71	21.7	84	sw.	2	0.9		2 ck	fg.			0	0	clear	J. H. Sherman.
New London, Connecticut	29.77	756.1	29.82	757.4	71	21.7	90	calm	0	0		7 k	0			0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	77.0	25.0	84	s.	2	0.9		1 c	0	w.		0.44	11.2	clear	M. Herman.
New York, New York	29.63	752.6	29.80	756.9	74	23.3	71	nw.	2	0.9		1 cs	fg.			inap.	inap.	clear	G. E. Franklin.
Norfolk, Virginia	29.81	757.2	29.84	757.9	75.0	23.9	79	w.	7	3.1		0	hz.			0.19	4.8	clear	Wm. Davis.
North Platte, Nebraska	27.10	688.3	29.90	759.4	69.6	20.9	70	calm	0	0		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.22	767.6	30.26	768.6	46.0	7.8	68	n.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.91	734.3	30.05	763.3	74.0	23.3	76	calm	0	0		1 k	0	w.		0	0	clear	A. Pollak.
Ooglaamie, Alaska	29.75	755.6	29.77	756.1	36.0	2.2	98	sw.	1	0.4		6 k	2 s	sw	wsw.	0.13	3.3	cloudy	P. H. Ray.
Oswego, New York	29.61	752.1	29.93	760.2	55.0	12.8	80	n	21	9.4		5 k	0	nw.		0	0	fair	J. G. Linsley.
Palestine, Texas	29.54	750.3	30.08	764.0	76	24.4	85	calm	0	0		0	0			0	0	clear	J. W. Byram.
Pensacola, Florida	30.04	763.0	30.07	763.8	70.3	24.0	81	sw.	3	1.3		1 cs	0	w.		0.03	0.8	clear	M. McGauran.
Philadelphia, Pa	29.73	755.1	29.83	757.7	72.5	22.5	90	w.	4	1.8		1 cs	0	w.		0.03	0.8	clear	T. F. Townsend.
Pike's Peak, Colorado	18.19	462.0	30.01	762.2	34	1.1	71	sw.	13	5.8		0	0			inap.	inap.	clear	H. Hall.
Pioche, Nevada																			F. R. Day.
Pittsburg, Pennsylvania	29.12	739.6	29.91	759.7	63.5	17.5	93	nw.	4	1.8		0	0			inap.	inap.	clear	W. A. Reid.
Poplar River, Montana	27.74	704.6	29.84	757.9				sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Huron, Michigan	29.32	744.7	29.98	761.5	60.0	15.6	87	n.	12	5.4		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.70	754.4	29.75	755.6	70	21.1	66	n.	14	6.3		5 k	0	n.		0	0	fair	W. W. Eichelberger
Portland, Oregon	30.17	766.3	30.24	768.1	48.5	9.2	87	calm	0	0		0	sk.			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					77.0	25.0	82	sw.	9	4.0		0	hz.			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.89	632.2	29.91	759.7	61.0	16.1	72	s.	2	0.9		0	1 s		ne.	0.05	1.3	clear	Jas Cassidy.
Provincetown, Mass	29.73	755.1	29.76	755.9	67.5	19.7	90	w.	8	3.6		0	1s;fg		w.	0	0	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.63	752.6	29.98	761.5	69	20.6	57	n.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.66	753.4	30.21	767.3	45.6	7.6	79	e.	1	0.4		0	sk.			0	0	clear	J. J. Nanry.
Sacramento, California	29.87	758.7	29.94	760.5	71.0	21.7	71	s.	2	0.9		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	30.00	762.0	76.7	24.8	74	w.	8	3.6		2k;cs	0	w.		0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.97	761.2	30.00	762.0	48	8.9	100	s.	12	5.4			10 n			0.34	8.6	heavy rain	A. P. Leavitt.
St. Paul, Minnesota	29.22	742.2	30.00	763.5	67.0	19.4	84	ne.	1	0.4		2 k	0	w.		0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.08	738.6	29.93	760.2	64	17.8	84	se.	7	3.1		0	0			0	0	clear	O. B. Dilley
Salt Lake City, Utah	25.66	651.8	29.88	758.9	73	22.8	41	nw.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.85	758.2	29.92	760.0	65.3	18.5	86	nw.	2	0.9		2 k	4 s	e.		0	0	fair	A. C. Dobbins.
Sandy Hook, New Jersey	29.76	755.9	29.79	756.7	70.0	21.1	84	w.	7	3.1		5 ck	0	w.		0.39	9.9	fair	B. A. Blundon.
Sanford, Florida	29.99	761.7			78.5	25.8	79	w.	2	0.9		8 cs	0	w.		0	0	cloudy	J. B. Marbury.
San Francisco, California	29.95	760.7	30.02	762.5	60	15.6	65	sw.	1	0.4		2 c	sk.	nw.		0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.89	759.2	29.98	761.5	80.5	26.9	68	w.	10	4.5		0	0			0.15	3.8	clear	H. W. Ford.
Shaw, Fort, Montana	29.32	668.5	29.89	759.2	65	18.3	58	w.	4	1.8		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	70.8	21.6	82	w.	1	0.4		0	0			0	0	clear	L. A. Welsh.
Sill, Fort, Indian Territory	28.86	733.0	30.00	763.5	64	17.8	90	n.	2	0.9		0	hz.			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.97	761.2	30.03	762.7	49	9.4	86	ne.	2	0.9			10 ks		ne.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.00	751.8	30.00	763.5	66.5	19.2	93	calm	0	0			fg.			0	0	dense fog	J. B. Campbell.
Smithville North Carolina	29.87	758.7	29.91	759.7	77.0	25.0	64	w.	9	4 0		1 cs	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.14	714.7	30.18	766.0	62	16 7	78	sw.	6	2.7		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.33	745.3	30.00	762.0	66	18.9	73	ne.	8	3.6		0	1 s		w.	0	0	clear	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	27.11	688.6	30.03	762.7	64	17.8	90	calm	0	0		4 k	0	w.		0	0	fair	A. J. Warren.
Thomas, Camp, Arizona					70	21.1	55	nw.			1	0	0			0	0	clear	J. L. Whiteside.
Toledo, Ohio	29.29	744.0	29.97	761.2	64	17.8	90	ne.	7	3.1		2 cs	7 k		ne.	0	0	cloudy	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	30.40	772.1	30.42	772.7	51	10.6	72	sw.	4	1.8			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					75	23.9	43	se.			1	0	0			0	0	clear	O. L. Pease.
Vicksburg, Mississippi	29.82	757.4	30.07	763.8	70.8	21.6	92	calm	0	0		0	fg.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.74	755.4	29.85	758.2	69.3	20.7	80	nw.	6	2.7		0	0			0.11	2.8	clear	B. M. Purssell.
West Las Animas, Colorado	20.22	666.0	29.99	761.7	58	14.4	58	s.	2	0.9		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.85	758.2	29.90	759.4	70.0	24.4	74	w.	5	2.2		0	0			inap.	inap.	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.76	730.5	30.04	763.0	70	21.1	76	calm	0	0		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.70	754.4	29.84	757.9	79.8	26.6	76	se.	1	0.4		2 c	0	se.		0	0	clear	W. S. Delano.
Sub-series.																			
Bogota, U. S. Columbia																			Joaquin Gomez.
Kingston, Jamaica, W. I.			30.03	762.7	80	26.7	68	n.	1	0.4		5 c	1 s		e.	0.04	1.0	fair	Robert Johnston.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	76	24.4	91	se.			2	5 ck	4 s	e.		0.040	1.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	740.2	29.94	760.5	78	25.6	89	se.			1	7 c	3 k	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	91	ne.				3 ck	2 ks	se.	ne.	0.10	2.5	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
St. Thomas, W. I.																			Aug. Wallos
York Factory, B. A.	29.88	758.9	29.94	760.5	55.0	12.8	93	sw.	6	2.7		1 c	1 s	sw.	sw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 43° 38′ E. 13° 29′	30.11	764.8	75	23.9	68	nne.			1		0							blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.14	765.5	77	25.0	80	ese.			4		4	ese.						d. clouds.
H. M. S. Gannet, N. 51° 27′, E. 0° 44′	29.96	761.0	79	26.1	66	e.			2		5							d. clouds.
H. M. S. Iris, Port Said, Egypt	29.90	759.4	76	24.4	95	nnw.			2		0							blue sky.
H. M. S. Minotaur, Corcubion Bay, Spain	30.14	765.5	64.5	18.1	81	sse.			3		5	sw.						d. clouds.
H. M. S. Opal, N. 4° 43′, W. 5° 02′	30.01?	762.2?	79	26.1	78	s.			3		6	sse.				2	sse.	d. clouds.
H. M. S. Tyne, N. 9° 55′, W. 15° 52′	30.04?	763.0?	81	27.2	78	wnw.			1		6	calm						d. clouds
H. M. S. Tenedos, Sydney, N. S	29.58	751.3	65	18.3	89	ssw.			2		6	wsw.						d. clouds.
H. S. M. S. Eugenie, N. 35° 30′, W. 10° 20′	30.21	767.3	69.1	20.6	92	ne.			2		10							overcast.
U. S. Navy Yard, Portsmouth, N. H.*	29.71	754.6	70	21.1	80	nw	7	3.1			2		nw.	0	0			fair.
U. S. S. Constellation, N. 38° 26′, W. 74° 07′*	29.83	757.7	71	21.7	95	ssw.			1		8		se.			long	s.	cloudy.
U. S. S. Dale, N. 39° 05′, W. 71° 16′	29.86	758.4	70	21.1	95	s.			3		5					sm'h		fair
U. S. S. Lancaster, N. 55° 18′, E. 12° 47′	30.25	768.3	66	18.9	89	ene.			3		2		calm			sm'h		fair.
U. S. S. Nipsic, N. 32° 19′, W. 43° 58′*	30.27	768.8	76	24.4	91	nw.			2		0					sm'h		clear.
U. S. S. Portsmouth, Newport, R. I	29.80	756.9	68	20.0	95	nw.			1		8		w.					cloudy.
U. S. S. Powhatan, Hampton Roads, Va	29.81	757.2	76	24.4	86	w.			3		1							clear.
U. S. S. Saratoga, Newport, R. I	29.82	757.4	67	19.4	100	w			1-2		10		w.	light	light	sm'h		foggy.
U. S. S. Vandalia, Lynn Haven Roads, Va	29.84	757.9	73	22.8	95	nw.			1		2					sm'h		fair.
U. S. S. Yantic, N. 49° 42′, W. 51° 11′	29.52	749.8	51	10.6	?	wsw.			4		5					sm'h		fair.
Cottica, N. 32° 45′, W. 53° 54′	30.37	771.4	77.5	25.3	82	e.			1		1							blue sky.
May Hulse, N. 25° 20′, W. 39° 00′	30.31	769.9	76.5	24.7	82	ne.			2		6							showery.
St. Kilda, N. 23° 46°, W. 59° 54′	30.26	768.6	80.3	26.8	75	e.			4		5							d. clouds.
H. P. M. S. Rio Lima, N. 31° 32′, W. 17° 17′	30.29	769.4	75.2	24.0	70	ne.			2		3		ne.					d. clouds.
S. S. Illinois, N. 49° 44′, W. 22° 16′	29.70	754.4	53	11.7		wnw.			4		9		wnw.			mod.	wnw.	cloudy.
S. S. Lord Gough, N. 47° 02′, W. 51° 00′	29.61	752.1	49	9.4		sw.			4		10			0	0	long	w.	foggy.
S. S. Ohio, N 40° 32′, W. 64° 44′ †	29.87	758.7	75	23.9		sw.			5		5?		sw.	0	0	mod.	sw.	cloudy?
S. S. Pennsylvania, N. 50° 34′, W. 15° 43′†	29.63	752.6	59	15.0		n			2		5		n.	0	0	mod.	sse.	fine.
S. S. Scandinavian, N. 52° 39′ W. 29° 57′	29.26	743.2	54	12.2		sse.			3				ne.			con.	var.	raining.
S. S. Nova Scotian, Halifax, N. S	29.77	756.1	62	16.7		wsw.			3		10		w.					showery
S. S. Polynesian, Montreal, Canada	29.96	761.0	62	16.7		n.			4		1		n.	2 h'r	2 h'r	sm'h	s.	clear.
S. S. Prussian, Boston, Mass	29.76	755.9	78	25.6		wsw.			1		4		w.	1 h'r	1 h'r			clear.
S. S. Manitoban, Montreal, Canada	30.03	762.7	70	21.1	85	calm			0		3			0	0			
S. S. Sardinian, N. 54° 09′, W. 24° 36′	29.59	751.6	50	10.0		s.			4		10		s.	6 h'r	6 h'r	sm'h		light rain.
S. S. Jason, N 40° 19′, W. 58° 05′†	29.94	760.5	71.6	22.0		sw.			6		10 n					6-7	s.	raining.
S. S. Alvo, Port Antonio, Jamaica, W. I*	29.96	761.0	78	25.6		calm			0		9		calm	1 h'r	1 h'r			fine.
S. S. Alene, N. 19° 07′, W. 83° 08′†	30.03	762.7				ne.			3		0			0	0	sm'h		hazy.
S. S. Furnesia, New York, N. Y †	29.78	756.4	79	26.1	95	nnw.			1		0			0	0			clear.
S. S. Jerome, N. 19° 33′, W. 53° 51′			78	25.6	100	e.			5		8		ese.	0	0	sli't	ese.	fair.
S. S. Landaff City, N. 47° 59′, W. 38° 36′†	29.67	753.6	60	15.6		wnw.			5		10		wnw.	0	0	high	w.	hazy.
S. S. Gallia, N. 42° 00′, W. 52° 55′	29.93	760.2	66	18.9	?	wsw.			5		10							misty.
S. S. Pavonia, N. 50° 17′, W. 24° 44′	29.55	750.6	57	13.9	81	ssw.			5		10			1 h'r	1 h'r	mod.	sw.	overcast.
S. S. France, N. 42° 06′, W. 47° 27′†	29.87	758.7	68.0	20		wsw.			4		10		w.	rain	rain	sm'h	s.	threatening.
S. S. Abyssinia, N. 43° 56′, W. 49° 24′	29.94	760.5	57	13.9	81	sw.			3		0			2 h'r	2 h'r	mod.	sw.	dense fog.
S. S. Wisconsin, N. 43° 40′, W. 49° 00′			59	15.0		sw.			2		6		w.	0	0	sli't	wsw.	foggy.
S. S. Wyoming, Liverpool, Eng	29.99	761.7	62	16.7		nw.			2		4		w.	0	0			fair.
S. S. Bohemia, Hamburg, Germany						e.			1		2		e.	0	0			fair.
S. S. Gellert, N. 50° 00′, W. 14° 40′	29.60	751.8	59	15.0	100	sw.			5		10		sw.	7 h'r	7 h'r	rg'h	s.	covered.
S. S. Lessing, N. 44° 06′, W. 51° 27′	30.02	762.5	84	28.9		wsw.			4		6		w.	½ h'r	½ h'r	mod.	wsw.	hazy.
S. S. Silesia, Hamburg, Germany	30.07	763.8	86.2	30.1		ese.			3		4			0	0			fair.
S. S. City of Berlin, N. 40° 45′, W. 68° 40′	29.81	757.2	60	15.6	94	sw.			2		fg.			24 h'r	24 h'r	mod.	sw.	dense fog.
S. S. City of Paris, N. 49° 10, W. 28° 49′ *	29.45	748.0				sw.			5		10		sw.	6 h'r	6 h'r	r'gh	sw.	raining.
S. S. Bulgarian, N. 51° 33′, W. 8° 52′ *	30.00	762.0				ese.			2		3		se.	0	0			
S. S. Sirius, N. 26° 30′, W. 20° 10′	30.15	765.8				ne.			5		4		ne.	0	0	sli't	ne.	fair
S. S. City of San Antonio, N. 32° 18′, W. 80° 10′*†	29.98	761.5	82	27.8		wnw.			4		0					light	sw.	clear.
S. S. Colorado, New York, N. Y†	29.80	756.9	72	22.2		w.			1		0			0	0			clear.
S. S. Chalmette, N. 24° 38′, W. 80° 45′†	30.13	765.3	82	27.8		ene.			4		5		ene.	0	0	sm'h		fair.
S. S. Alleghany, Boston, Mass†	29.70	754.4	74	23.3		w.			2		2		w.	0	0			clear.
S. S. Denmark, N. 48° 40′ W. 21° 30′ †	29.70	754.4	60	15.6		wnw.			6		8		wnw.	10 h'r	10 h'r	sli't	nw.	cloudy.
S. S. Egypt, N. 51° 13′, W. 24° 04′	29.95	760.7	54	12.2		sw.			4		10		sw.	0	0	mod.	sw.	threatening.
S. S. Erin, N. 49° 50′, W. 12° 46′	29.74	755.4	60	15.6		se.			6		10		s.	8 h'r	8 h'r	mod.	s.	raining.
S. S. Greece, N. 40° 38′, W. 58° 57′	29.99	761.7	75	23.9	86	sw.			4		2		sw.	3 h'r	3 h'r	mod.	sw.	clear.
S. S. Helvetia, N. 47° 36′, W. 33° 00′	29.76	755.9	67	19.4	89	sw.			4		10		sw.	0	0	mod.	wsw.	hazy.
S. S. The Queen, N. 40° 39′, W. 64° 07′	29.87	758.7	81	27.2	70	sw.			5-6		5		wsw.	4 h'r	4 h'r	r'gh	sw.	rainy.
S. S. Braunschweig, N. 46° 55′, W. 30° 05′	29.78	756.4	62.0	16.7	83	sw.			6		7		wnw.	0	0	r'gh	sw.	fair.
S. S. Elbe, N. 49° 34′, W. 13° 49′	29.66	753.4	59	15.0	100	sse.			6		10		se.	3 h'r	3 h'r	r'gh	se.	drizzling
S. S. Habsburg, N. 46° 53′ W. 32° 50′	29.79	756.7				sw.			5		9		wnw.	0	0	mod.	wsw.	cloudy
S. S. Main, N. 48° 03′. W. 31° 28′	29.63	752.6	59	15.0		w.			6		9		sw.	10 h'r	10 h'r	h'vy	w.	heavy rain.
S. S. Neckar, off Fire Island, N. Y	29.79	756.7	71.0	21.7	95	ssw.			1		4		sw.	0	0	sm'h	sw.	hazy.
S. S. Oder, N. 41° 22′, W. 56° 25′	30.03	762.7	81	27.2		sw.			4		3		wsw.	½ h'r	½ h'r	cross	wsw.	hazy.
S. S. Ohio, N. 53° 52′, E. 6° 32′	30.06	763.5				e.			2		0			0	0	sm'h	e.	hazy.
S. S. Strassburg, N. 49° 40′, W. 8° 48′	29.94	760.5	65.0	18.3	84	s.			3		6		s.	0	0	2	var.	fair.
S. S. Werra, N. 41° 30′, W. 50° 20′	30.11	764.8	75	23.9		w.			3		5		w.	2 h'r	2 h'r	light	wsw.	fair.
S. S. Weser, N. 41° 44′, W. 49° 05′	30.10	764.5	59	15.0		wsw.			2		5					mod.	wsw.	foggy.
S. S. City of Augusta, Savannah, Ga †	30.07	763.8				ne.			4		6		ne.	0	0			fair.
S. S. Colon, N. 27° 14′ W. 74° 14′ †	30.09	764.3	83	28.3	91	calm			0		0			0	0	sm'h		clear.
S. S. Orinoco, N. 36° 10′, W. 68° 35′			76	24.4		sw.			6		4		sw.	4 h'r	4 h'r	h'vy	sw.	raining.
S. S. Rhynland, Jersey City, N. J	29.79	756.7	70	21.1	95	calm			0					0	0			clear.
S. S. Pennland, N. 43° 40′, W. 41° 52′	30.00	762.0	68	20.0	90	w.			6		9		w.	6 h'r	6 h'r	high	w.	rainy.
S. S. Waesland, N. 46° 56′, W. 30° 41′	29.83	757.7	65	18.3		wsw.			6		9		sw.	sh'rs	sh'rs	mod.	wsw.	cloudy.
S. S. P. Caland, Rotterdam, Holland	30.09	764.3	71.1	21.7	88	ssw.			3		6		ssw.					fair.
S. S. Leerdam, N. 49° 12′ W. 34° 50′	29.60	751.8	61.2	16.2	93	nw.			6		8		nw.	2 h'r	2 h'r	r'gh	wsw.	cloudy.
S. S. W. A. Scholten, New York, N. Y	29.87	758.7	67.0	19.4	89	sw.			1		8		sw.	4 h'r	4 h'r			cloudy.
S. S. Belize, Savanilla, U.S.C.*	29.82	757.4	86	30.0		calm			0		9			0	0	sm'h		cloudy.
S. S. Valencia, Curacoa, W. I†	30.19	766.8	82	27.8	79	ene.			5		2		ene.	0	0			clear.
S. S. State of Georgia, N. 44° 22′, W. 49° 00′ †	29.96	761.0	45	7.2		ssw.			2		fg.			0	0	sm'h		dense fog.
S. S. State of Indiana, N. 53° 51′, W. 21° 20′ *†	29.55	750.6	54	12.2		se.			3		5		e.	0	0	sm'h		fair.
S. S. Thingvalla, N. 47° 34′, W. 41° 45′ †	29.70	754.4	55.4	13.0		sw.			4		10		sw.	2 h'r	2 h'r	r'gh	sw.	covered.
S. S. Marengo, N. 49° 39′, W. 10° 48′ †	29.81	757.2	58	14.4		s.			6		8		s.	½ h'r	½ h'r	mod.	s.	cloudy.
S. S. Romano, N. 39° 59′, W. 64° 49′†	29.75	755.6	74	23.3		s.			6		9		ssw.	0	0	h'vy	ssw.	squally.
S. S. Lake Huron, N. 51° 58′, W. 54° 58′	29.40	746.7	42	5.6		ene.			4		10		ene.	0	0	sm'h	ene.	dull.
S. S. Daniel Steinmann, N. 49° 00′, W. 63° 55′†	29.59	751.6				wnw.			6		7		wnw.	0	0			fair.
S. S. Norman, N. 39° 56′, W. 75° 08′	29.71	754.6				nw.			1		10		w.	0	0			cloudy.
S. S. Saxon, N. 39° 57′, W. 73° 25′†	29.84	757.9				sw.			6		10							dense fog.
S. S. Britannic, N. 51° 10′, W. 14° 57′†	29.76	755.9	58.2	14.6		se.			5		10		sse.	sh'rs	sh'rs	mod.	se.	overcast.
S. S. Celtic, off Fastnet Rock, Ireland †	29.92	760.0	62	16.7		s.			3		2		s.	0	0	sm'h		clear.
Bk. Gray Eagle, N. 1° 39′, W. 40° 35′*†	29.90	759.4				se.			4		1			0	0	short	sw.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.16	766.1	71.5	21.9	73	wnw.			4		1			0	0			clear.
Schr. Abbie H. Gheen, Jersey City, N. J†	29.91	759.7	77	25.0		w.			1									clear.
Bg. Abbie Clifford, N. 36° 20′, W. 61° 04′ †	30.24	768.1	76	24.4		ssw.			4		3		sw.	0	0	mod.	sw.	fair.
Schr. Anna A. Holton, N. 24° 00′, W. 80° 21′ *†.	30.06	763.5	86	30.0		sse.			3		2		se.	0	0	sm'h	se.	clear
Bk. Alpheus Marshall, N. 5° 00′, W. 40° 00′ *†	29.87	758.7				se.			2		3		se.	0	0			clear.
Bk. Ceylon, N. 0° 39′, W. 29° 14′ *†	30.15	765.8	82	27.8	91	ese.			4					0	0	mod.	ese.	fine.
Schr. Arthur Burton, N. 42° 40′, W. 69° 30′†	29.73	755.1				sw.			3		fg			0	0	chop	sw.	foggy.
Bk. Aureola, Queenstown, Ireland†	29.95	760.7	70	21.1		ssw.			5		6		sw.	0	0			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 1.—North Atlantic.—Continued.																		
Bk. Arda, Sackville, N. B†	29.65	753.1				sw.			8		4		sw.	0	0			fair.
S. S. Burswell, N. 39° 40', E. 4° 08'*†	30.15	765.8	83	28.3		ne.			2		0			0	0	sm'h		clear.
Bg. Belle of the Bay, Apalachicola, Fla†	30.05	763.3				wsw.			4		6		w.	rain	rain			fair.
Bk. Bayonaise, N. 20° 02', W. 41° 42'			77.0	25		e.			4		6		e.			r'gh	e.	fine.
Schr. C. R. Flint, N. 27° 31', W. 85° 02'†	30.11	764.8	84	28.9		nnw.			1		10		ne.	0	0	sm'h		misty.
S. S. Cannonbury, N. 50° 06', W. 6° 22'*†	30.11	764.8				sw.			3		4		sw.	0	0	mod.	wsw.	fair.
Bk. Cato, N. 65° 20', E. 36° 30'*†	29.97	761.2				ne.			4		4		n.					fair.
S. S. D. J. Foley, N. 19° 30', W 74° 50'*†	30.02	762.5	81	27.2	87	ne.			2		5		ne.	4 h'r	4 h'r	long	ne.	fair.
Bkt. David A. Preston, Port Royal, S. C.						s.			4		5		s.	0	0			
S. E. J. Spicer, New York, N. Y	29.78	756.4	73	22.8	95	wsw.			2		fg.		s.	8 h'r	8 h'r			clear.
Bk. E. D. Bigelow, N. 54° 43', W. 3° 30'*†	29.96	761.0	67	19.4		calm			0					6 h'r	6 h'r			gloomy.
U. S. Fish Com. S. S. Fish Hawk, Norfolk, Va†	29.94	760.5	78	25.6	91	wsw.			2		2		sw.	0.20	5.1			clear.
S. Festina Lente, N. 47° 33', W. 50° 58'	29.68	753.9	50	10.0		ssw.			5		fg.			0	0	mod.	ssw.	dense fog.
Sch. F. E. Waters, N. 26° 46', W. 77° 04'*†	30.20	767.1				ne.			1					0	0	sm'h		fair.
Bk. George Davis, N. 49° 49', W. 18° 25'						nne.			5				nnw.	8 h'r	8 h'r	h'vy	sw.	covered.
Bk. Gucheon, N. 47° 27', W. 5° 49'*†	30.15	765.8	67.1	19.5		w.			5		0			0	0	rg'h	wnw	clear.
Bx. Galeon, N. 38° 21', W. 53° 56'†	30.25	768.3	73	22.8		wsw.			4		5		wsw.	light	light	mod.	wnw.	squally.
Bk. Heinrich & Tonio, N. 40° 30', W. 73° 00'†	29.75	755.6	73.5	23.1		wsw.			0-1					0	0	light	s.	hazy.
Bk. Hattie G. McFarland, New York, N. Y			73	22.8		n.			2		0			0	0			clear.
Bk Harriet S. Jackson, N. 30° 24', W. 70° 30'						s.			4		6		wsw.	1 h'r	1 h'r	small	ssw.	squally.
Schr. Isabel Alberto, Jacksonville, Fla†	29.99	761.7				sw.			2				sw.	light	light			fair.
Schr. John L. Thomas, Old Providence Island, C. A*†	30.00	762.0	88	31.1		ene.			4		4		ene.	20 minutes				fair.
Bg. John Wesley, N. 3° 57', W. 23° 56'*†	29.92	760.0	82	27.8		sse.			2		5		sse.	0	0	mod.	sse.	fair.
Schr. Jennie N. Huddell, Philadelphia, Pa†	29.84	757.9	78	25.6		calm			0		2		sw.	0	0			fair.
S. J. W. Gildemeister, N. 7° 30', W. 24° 30'	30.05	763.3	86.0	30	80	e.			1		5k;n		ne.	¾h'r	¾h'r	3	ssw.	d. clouds.
Bkt. Josephine, N. 39° 18', W. 73° 08'†	29.79	756.7	74	23.3	80	sw.			1		10			0	0	mod.	sse.	hazy.
Bkt. Kryolith, N. 49° 18', W. 49° 44'*†	29.54	750.3				ssw.			3		10			0	0	mod.	ssw.	foggy.
Bg. L. & W. Armstrong, St. Pierre, Martinique, W I*†	30.08	764.0				e.			4		5		e.	3 h'r	3 h'r			raining.
Light-house Tender Laurel, off Key West, Fla†	30.02	762.5	80	26.7		ene.			1		4		ene.	2 h'r	2 h'r			fair.
Bg. Lilian, N. 34° 15', W. 66° 30'†	30.16	766.1	77	25.0		s.			6		8		ssw.	0	0	rg'h	var.	cloudy.
Bk. Louise Adelaide, New York, N. Y†	29.96	761.0	73	22.8		nw.			1		0			1 h'r	1 h'r			clear.
Bk. Milo, N. 43° 45', W. 63° 40'†	29.65	753.1				wsw.			5		fg.						sw.	rain & fog.
S. S. Madrid, Baltimore, Md†	29.85	758.2	77	25.0	86	calm			0		0			2 h'r	2 h'r			fair.
Schr. Minnie A. Bonsall, Bridgetown, Count	29.83	757.7	74	23.3		calm			0					0	0			dense fog.
Bgt. Myrtle, N. 26° 41', W. 70° 00'*†	30.20	767.1				ese.			5		5		se.	0	0			fair.
S. S. Mendozo, N. 30° 52', W. 46° 48'						ne.			1		1		ne.	0	0	sm'h	e.	clear.
Bk. National Eagle, N. 35° 24', W. 9° 46'						nne.			3		2		ne.	0	0	sm'h	ne.	fair.
Bg. O. C. Clary, Guadeloupe, W. I*†	30.05	763.3				ese.			3		0							clear.
Bk. Orpheus, N. 39° 05', W. 59° 36'	30.00	762.0	82	27.8		sw.			0		6 k		ssw.	2 h'r	2 h'r	mod.	sw.	hazy.
Bk. Ottawa, Stockholm, Sweden	30.14	765.5	82	27.8		w.			2		0			0	0			clear.
S. Paramita, N. 45° 18', W 20° 32'†	29.93	760.2	62	16.7		var.			8		5		w.			h'vy	wsw.	fair.
S. S. Raleigh, Santiago, Cuba†	29.98	761.5	89	31.7														
S. Rudolph, N. 42° 20', W. 41° 34'			67.0	19.4		w.			5		10		nw.	1 h'r	1 h'r	cross	w;n.	hazy.
Bg. Rising Sun, N. 30° 52', W. 69° 00'†	30.12	765.0	84	28.9		ssw.			4		2		ssw.	0	0	mod.	s.	
Bk. Rosino, N. 36° 47', E. 0° 24'			73	22.8		nne.			1		2		w.	0	0	low.	w.	clear.
Bk. Saga, N. 43° 10', W. 58° 37'*†	29.86	758.4	67	19.4					5		9		wsw.	½h'r	½h'r	r'gh	sw.	raining.
Bk. Sunbeam, N. 38° 42', W. 9° 05'†	30.23	767.8	72	22.2	80	s.			3		0			0	0			clear.
Bk. Southern Belle, N. 30° 20', W. 69° 00'†	30.10	764.5	78	25.6		se.			3		2			0	0	mod.	e.	clear.
S. Sovereign of the Seas, N. 6° 05', W. 28° 07'*†	30.18	766.6	82	27.8	83	ese.			1		5		sse.	8 h'r	8 h'r	chop	s.	fair.
S. S. Strathleven, N. 40° 12', W. 54° 08'	30.14	765.5	74.0	23.3	90	sw.			5		0			0	0	4	ssw.	blue sky.
Bg. Teneriffe, N. 45° 43', W. 35° 58'*	29.71	754.6				sw.			7		10		sw.	rain	rain	r'gh		
Bk. Tuck Sing, N. 39° 35', W. 73° 58'*†	29.84	757.9				nnw.			2		2		w.	0	0	mod.	se.	fine.
Schr. Viola Reppard, N. 42° 40', W. 69° 20'†	29.83	757.7	69	20.6		wsw.			3		10		wsw.	0	0	r'gh	s.	foggy.
Bkt. Wandering Jew, Matanzas, Cuba, W. I*†	30.02	762.5	83	28.3		calm			0		6		calm	0	0			fair.
District No. 2.—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay†	30.09	764.3	52.5	11.4	90	calm			0		7		nw.					d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.01	762.2	60	15.6		nw.			2-4		5							squally.
H. M. S. Sylvia, Montevideo, Uruguay	30.06	763.5	50	10.0	100	calm			0		9							d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.03	762.7	53	11.7	100	sw.	8	3.6			10		calm	0	0	sm'h		cloudy.
U. S. S Galena, Montevideo, Uruguay*	30.06	763.5	52	11.1	93	wnw.			2		10					sm'h		cloudy.
U. S. S. Quinnebaug, St. Paul de Loanda, Angola	30.06	763.5	73	22.8	81	nw.			1		0					sm'h		clear.
S. Annie M. Law, S. 28° 32', E. 13° 51'*†	30.16	766.1	66	18.9		wsw.			1		0			0	0	mod.	ssw.	clear.
S. David Stewart, Pernambuco, Brazil†	29.93	760.2				sse.			4		3		sse.	rain	rain			
S. Wm. McGilvery, S. 56° 34', W. 73° 58'*†	29.65	753.1	34	1.1	90	ne.			3		0			0	0	sm'h		misty.
S. S. Olbers, S. 0° 50', W. 39° 18'†	30.07	763.8	81	27.2	87	e.			5		3		e.	2 h'r	2 h'r	mod.	ese.	clear.
Bk. Achille F, off Montevideo, Uruguay†	30.03	762.7	52	11.1	86	calm			0		10			1 h'r	1 h'r	sm'h		overcast.
Bk. Aquidneck, S. 1° 15', W. 31° 10'*†	30.00	762.0				se			5		1		se.	0	0	light	se.	clear
H. P. M. S. Douro, S. 6° 18', E. 12° 17'	30.05	763.2	73.8	23.2	81	s.			4		2			0	0	3	s.	d. clouds.
District No. 3—North Pacific.																		
H. M. S. Audacious, Chee Foo, China	29.71	754.6	74	23.3	76	se.			2		7	se						d. clouds.
H. M. S. Champion, N. 2° 00', E. 119° 40'	29.85	758.2	80	26.7	91	calm			0		10					1	sw.	d. clouds.
H. M. S. Espiegle, N. 5° 39', E. 102° 23'	29.90	759.4	80	26.7	87	ese.			3		10					2	ese.	raining.
H M. S. Flying Fish, N. 37° 34', E. 121° 26'	29.71	754.6	72.5	22.5	76	se.			1		8					1	se.	misty.
H. M. S. Magpie, N. 6° 00', E. 117° 49'	29.88	758.9	81.5	27.5	79	ene.			1		3							d. clouds.
H. M. S. Zephyr, N. 35° 27', E. 139° 39'	29.89	759.2	74	23.3	95	ssw.			5		10					1	s.	overcast.
H. P. M. S. Tamega, Macao, China	29.81	757.2	84.2	29.0	81	sw.			4		10			5 h'r	5 h'r			overcast.
U. S. Naval Hospital, Yokohama, Japan	30.01	762.2	72	22.2	90	sw.			3		10			0	0			gloomy.
U. S. S. Adams, Wm. Henry Harbor, Alaska†	29.93	760.2	49	9.4	93	calm			0		10					sm'h		heavy rain.
H. M. S. Essex, Honolulu Sandwich Ids	30.04	763.0	76	24.4	73	calm			0		2					sm'h		clear.
U. S. S. Monocacy, Saleb river, Corea	29.76	755.9	73	22.8	81	nnw.			1		10		calm					misty.
U. S. S. Palos, Hong Kong, China	29.72	754.9	80	26.7	91	calm			0		8		calm					cloudy.
U. S. S. Richmond, N. 31° 01', E. 122° 35'*	29.61	752.1	82	27.8	96	ene.			3		2		ene.	0	0			clear.
S. S. Arabic, N. 40° 00', W. 128° 10'			60	15.6	88	wnw.			3		8		nnw.	0	0	sm'h		cloudy.
S. S. Coptic, N. 47° 27', W. 176° 02'	30.43	772.9	49.0	9.4	85	se.			5		10		se.	0	0	mod.	se.	misty.
S. S. Oceanic, San Francisco, Cal	30.01	762.2	65	18.3	63	calm			0		3							clear.
S. S. Oregon, Portland, Oregon†	30.28	769.1	53	11.7	93	calm			0		0							clear.
S. S. Willametta, N. 40° 48', W. 124° 38'†	30.22	767.6	52	11.1	93	n.			2		2		n.	0	0	sm'h		hazy.
S. S. Ancon, N. 34° 38', W. 120° 42'†	29.92	760.0	58	14.4	88	nw.			3		0					r'gh	wnw	clear.
S. S. City of Chester, Eureka, Cal†	30.14	765.5	54	12.2	93	nw.			2		10							overcast.
S. S. Dakota, N. 40° 10', W. 124° 26'†	30.00	763.5	54	12.2	87	nnw.			6		10		nnw.			long	nw.	cloudy.
S. S Queen of the Pacific, N. 41° 55', W. 124° 36'†	30.18	766.6	54	12.2		nnw.			5		0			0	0	sm'h		clear.
S. S. City of Sydney, N. 12° 40', W. 161° 40'*†	29.91	759.7	78	25.6	69	ene.					k		ene.					clear.
S. S. City of Rio de Janeiro, N. 31° 30', E. 133° 35'†	29.90	759.4	72	22.2	80	e.			1		8		calm	0	0	light	ne	cloudy.
S. S. Colima, Panama, Panama†	29.90	759.4	76	24.4	91	nw.			2		9		w.	0	0			cloudy.
S. S. San Blas, N. 30° 51', W. 117° 25			67	19.4		sse.			1		9		nw.			mod.	nw.	misty.
S. S. San José, N. 14° 03', W. 90° 52'†	29.92	760.0	84	28.9		ese.			2		5 k		se.	0	0	long	sse.	fair.
S. Gatherer, N. 28° —', W. 123° —'*†	29.97	761.2	70	21.1	80	var.			3				e.	0	0	chop	var.	cloudy.
S. S. Radnorshire, Shanghai, China *†	29.68	753.9				n.			2		0			2 h'r	2 h'r			clear
S. Storm King, N. 4° 54' W. 114° 10'*†	29.96	761.0				se.			2		5		e.	0	0	sm'h	se.	fair.
Bk. Xenia, N. 27° 03', E. 121° 32'			80	26.7		s.			4		1		calm	0	0	sm'h	se.	clear.
H. M. S. Sappho, N. 35° 19' W. 121° 41'	29.90	759.4	60	15.6	76	nnw.			5		4	nnw.				0	nnw.	d. clouds.
U. S. S. Ranger, N. 13° 51', W. 90° 46	29.90	759.4	81	27.2	77	nnw			3		2		calm	0	0	sm'h		clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. Henry Failing, Wilmington, Cal†	29.77	756.1	68	20.0	.....	e.	.....	.....	2	.....	8	.....	se.	0	0	cross	sse.	cloudy.
S. Grecian, Yokohama, Japan †	29.90	759.4	74	23.3	81	ssw.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
District No. 4—South Pacific.																		
H. M. S. Diamond, Sydney, N. S. W	.....	.....	55	12.8	74	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Kingfisher, S. 30° 41′, W. 72° 19′	30.06	763.5	59	15.0	.....	ese.	.....	.....	5	.....	0	.....	.....	.....	.....	3	wsw.	blue sky.
H. M. S. Nelson, Souva, Feejee Ids	29.87	758.7	72	22.2	81	ese.	.....	.....	1-4	.....	6	ese.	.....	.....	.....	.....	.....	showery.
U. S. S. Iroquois, Coquimbo, Chili	30.02	762.5	57	13.9	81	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Hartford, S. 4° 10′, W. 161° 10′ *	29.79	756.7	82	27.8	91	ese.	.....	.....	4	.....	2	.....	var.	0	0	sm'h	.....	clear
U. S. S. Lackawanna, Callao, Peru*	29.94	760.5	62	16.7	83	calm	.....	.....	0	.....	5	.....	se.	.....	.....	.....	.....	fair.
U. S. S. Onward, Callao, Peru†	30.12	765.0	61	16.1	82	calm	.....	.....	0	.....	2	.....	s.	.....	.....	.....	.....	clear.
U. S. S. Pensacola, Callao, Peru *	29.93	760.2	60	15.6	88	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	.....	fair.
U. S. S. Wachusetts, S. 9° 27′, W. 140° 52′	30.01	762.2	80	26.7	82	ene.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Australia, Sydney, N. S. W	30.21	767.3	54	12.2	87	w	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, S. 31° 45′. E. 178° 45′†	30.23	767.8	62	16.7	66	ssw.	.....	.....	5	.....	0	.....	.....	0	0	mod	s.	clear.
H. M. S. Lark. S. 7° 09′, E. 155° 47′	29.92	760.0	78.3	25.7	89	ene.	.....	.....	3	.....	10	.....	.....	.....	.....	1	se.	raining.
S. Parker M. Whitmore, S. 1° 41′, W. 115° 35′ *†	29.95	760.7	78	25.6	.....	ese.	.....	.....	5	.....	2	.....	e.	sh'rs	sh'rs	short	se.	clear.
District No. 5—Indian Ocean.																		
H. M. S. London, Zanzibar, Zanzibar	30.04	763.0	79	26.1	86	sse.	.....	.....	3	.....	2	sse.	.....	.....	.....	2	sse.	d. clouds.
H. M. S. Sheldrake, S. 7° 53′, E. 103° 17′	.....	.....	79	26.1	.....	sse.	.....	.....	2-4	.....	6	.....	.....	.....	.....	5	sse.	d. clouds
H. M. S. Tourmaline, Trincomalee, Ceylon, India	29.77	756.1	88	31.1	62	sw.	.....	.....	3	.....	2	sw.	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Enterprise, Nossi Bay, Madagascar, Africa*†	30.08	764.0	81	27.2	78	wnw.	.....	.....	3	.....	2	.....	calm	.....	.....	sm'h	.....	clear.
U. S. S. Juniata, off Trincomalee, Ceylon, India	29.78	756.4	86	30.0	88	sw.	.....	.....	4	.....	2	.....	sw.	0	0	sm'h	.....	clear.
S. S. Toledo, N. 12° 13′, E. 43° 39′*†	29.83	757.7	92	33.3	.....	nw.	.....	.....	4	.....	2	.....	nw.	.....	.....	.....	.....	clear.
S. S. Malabar, N. 5° 35′, E. 59° 15′*†	29.85	758.2	.....	.....	.....	wsw.	.....	.....	7	.....	2	.....	sw.	0	0	hv'y	w.	clear.

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

UNITED STATES OF AMERICA.

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

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

JUNE, 1883.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for June, 1883. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.03	762.7	69.1	20.6	81	10	.....	.....	.....	7	4	8	1	.....	.....	.....	0	0	0
Algiers	N. 36 47	E. 3 05	0.20 p.m.	72	22	.....	.....	30.02	762.4	70.3	21.3	71.8	14	1	6	.....	.....	2	3	4	.....	.....	.....	.2	0.52	13.3
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	29.98	761.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	29.99	761.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.04	763.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.02	762.4	75.2	24.0	43	11	5	5	2	2	4	1	.....	.....	.....	.....	2	0	0
Geriville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	77.5	25.3	24.6	4	7	1	11	.....	1	1	5	.....	.....	.....	1	0.08	2.0
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2549	777	.....	.....	29.98	761.4	81.5	27.5	30.6	...	2	.....	1	6	7	9	5	.....	.....	.....	1	map.	map.
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	29.97	761.2	86.5	30.3	32	.....	5	3	4	2	6	6	.....	4	.....	.....	2	0	0
AUSTRALIAN.																										
Adelaide	S. 34 57	E. 138 30	9.22 p.m.	140	42	30.15	765.8	.....	.....	53.7	12.1	78.3	11	2	2	.....	2	.....	.....	9	4	.....	.....	6	2.75	69.8
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.97	761.3	30.06	763.6	52.6	11.4	81	16	7	.....	4	1	1	.....	1	.....	.....	.....	8	1.96	49.8
AUSTRIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.34	745.2	29.91	759.6	73.0	22.8	57.5	1	1	5	9	3	5	2	4	.....	.....	.....	5	5.41	137.3
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.13	739.8	29.88	758.8	68.5	20.3	60.1	10	....	4	.....	1	1	3	5	.....	.....	.....	7	5.41	137.3
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	29.01	736.8	29.84	757.8	66.4	19.1	72.5	8	3	1	.....	4	1	.....	...	13	.....	.....	6	4.79	121.7
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.69	728.7	29.89	759.3	71.4	21.9	72.1	1	6	1	3	6	7	4	2	.....	.....	.....	6	5.92	150.3
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.48	723.3	29.84	757.9	76.3	24.6	48	2	9	3	.....	4	9	2	1	.....	.....	.....	6	0.93	23.6
Kremsmünster	N. 48 03	E. 14 08	1.04 p.m.	1200	384	28.00	720.8	29.91	759.8	67.6	19.8	68	2	4	7	3	.....	.....	2	12	.....	.....	.....	6	0.07	154.2
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	28.90	734.1	29.86	756.8	70.2	21.2	60.6	1	2	6	4	1	6	1	9	.....	.....	.....	6	4.29	108.9
Neu Schmecks	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	29.82	757.5	29.93	760.2	74.8	23.8	69.8	.....	6	6	7	4	5	.....	2	.....	.....	.....	4	3.00	76.3
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.39	746.4	29.84	757.8	76.8	24.9	58	4	2	6	4	7	.....	5	2	.....	.....	.....	6	1.08	27.4
Szegedin	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.60	751.7	29.86	758.5	73.8	23.2	59.9	2	3	5	6	7	4	1	.....	2	.....	.....	6	2.82	71.6
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	29.83	757.6	29.93	760.1	75.4	24.1	57.2	.....	5	7	11	.....	1	2	3	1	.....	.....	6	3.75	95.3
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.26	743.1	29.96	760.9	66.6	19.2	59.4	2	7	8	.....	.....	5	1	6	1	.....	.....	6	2.20	55.9
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.86	758.4	29.96	761.0	54.7	12.6	69.6	1	3	1	.....	5	11	6	3	.....	.....	.....	6	1.28	32.5
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	29.73	755.1	29.96	761.0	58.1	14.5	72.3	5	4	2	3	0	5	2	3	.....	.....	.....	7	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.96	761.0	60.0	15.6	68.9	.....	5	10	1	1	5	7	1	.....	.....	.....	7	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.42	747.3	29.95	760.7	60.5	15.8	69.0	2	3	5	2	8	1	6	3	.....	.....	.....	7	.....	.....
Bradford.*d*	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.55	750.6	29.95	760.7	60.8	16.0	61.9	.....	5	1	6	1	5	3	5	.....	.....	.....	7	3.50	88.9
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	30.03	762.7	30.00	763.5	82.3	27.9	75.2	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	29.87	758.7	29.97	761.2	67.0	19.4	64.0	4	4	4	9	2	.....	2	5	.....	.....	.....	4	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	120	37	29.85	758.2	29.97	761.2	63.4	17.4	71.0	1	2	2	8	1	.....	2	10	4	.....	.....	7	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.76	755.9	29.99	761.7	60.0	15.6	74.4	1	8	2	3	8	2	5	1	.....	.....	.....	7	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2205	672	27.79	705.9	30.01	762.2	71.1	21.7	44.6	2	1	3	.....	.....	6	14	2	2	.....	.....	2	.....	.....
Freetown	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.63	752.6	29.86	758.4	82.7	28.2	81.6	6	3	4	3	6	2	3	3	.....	.....	.....	5	.....	.....
Galway	N. 53 15	W. 9 03	11.32 a.m.	32	10	29.89	759.2	29.92	760.0	59.8	15.4	75.0	.....	6	7	6	3	1	3	4	.....	.....	.....	4	1.41	35.8
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	29.95	760.7	30.05	763.3	71.9	22.2	85.3	.....	8	7	3	.....	.....	12	.....	.....	.....	.....	3	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.73	755.1	29.94	760.5	58.0	14.4	64.0	1	3	5	5	7	.....	.....	9	...	.....	.....	8	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.80	756.9	29.97	761.2	65.8	18.8	64.6	4	5	1	6	4	3	2	5	.....	.....	.....	7	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.70	754.4	30.00	762.0	60.0	15.6	83.3	5	5	4	5	5	.....	1	5	.....	.....	.....	6	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	29.94	760.5	29.98	761.5	64.0	17.8	61.8	2	6	4	3	6	1	2	6	.....	.....	.....	6	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.70	754.4	29.95	760.7	62.5	16.9	67.5	.....	5	3	10	1	.....	1	8	2	.....	.....	7	.....	.....
Malta	N. 36 00	E. 14 30	1.06 p.m.	70	21	29.89	759.2	29.97	761.2	75.3	24.1	90.9	.....	8	3	2	.....	7	3	7	.....	.....	.....	1	.....	.....
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	30.08	764.0	30.13	765.3	84.4	29.1	68.8	.....	1	.....	4	4	15	6	.....	.....	.....	.....	6	.....	.....
Oscott	N. 52 28	W. 1 55	0.00 m.	483	147	29.47	748.5	30.00	762.0	63.1	17.3	68.8	4	5	5	2	9	.....	1	4	.....	.....	.....	8	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.74	755.4	29.97	761.2	67.0	19.4	67.4	2	5	4	3	7	.....	1	7	1	.....	.....	7	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	29.89	759.2	29.97	761.2	61.8	16.6	76.7	.....	4	3	6	9	1	5	1	1	.....	.....	7	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	29.85	758.2	29.95	760.7	53.0	11.7	75.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Scutari Cemetery	N. 41 00	E. 29 03	2.04 p.m.	60	18	29.78	756.4	29.84	757.9	79.5	26.4	58.4	.....	.....	1	9	3	1	.....	16	.....	.....	.....	3	.....	.....
Sheffield	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.69	751.1	29.97	761.2	64.2	17.9	73.8	.....	5	4	1	9	.....	2	8	1	.....	.....	6	2.63	66.8
Sillioth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.92	760.0	29.95	760.7	61.2	16.2	67.7	.....	5	6	10	.....	.....	8	1	.....	.....	.....	6	2.61	66.3
Stonyhurst *n*	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	30.11	764.8	60.7	15.9	58.7	1	1	5	1	1	.....	3	4	.....	.....	.....	7	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	29.95	760.7	30.04	763.0	65.7	18.7	69.1	.....	12	2	6	4	1	5	.....	.....	.....	.....	6	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m.	23	7	29.96	761.0	29.99	761.7	58.8	14.9	74.6	1	8	6	3	2	6	3	1	.....	.....	.....	6	.....	.....
Sub-series.																										
Gozo	N. 36 01	E. 14 16	1.05 p.m.	364	111	29.61	752.1	30.01	762.2	77.2	25.1	54	.....	5	7	2	7	5	4	.....	.....	.....	.....	1	0	0
CANADIAN.																										
Bathurst	N. 47 39	W. 65 43	7.45 a.m.	35	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	29.93	760.2	29.97	761.2	59.5	15.3	83.2	2	3	1	11	6	5	.....	1	1	5520	8893	8	2.20	55.9
Chatham*	N. 47 03	W. 65 29	7.45 a.m.	56	17	29.91	759.7	29.97	761.2	59.0	15.0	81.0	2	4	6	8	2	3	3	2	.....	3314	5333	8	6.00	152.4
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	29.71	754.6	29.90	759.4	61.2	16.2	85.0	.....	3	12	9	.....	1	4	1	.....	.....	.....	8	3.09	78.5
Dalhousie	N. 48 04	W. 66 21	7.32 a.m.	45	14	29.90	759.4	29.95	760.7	56.4	13.6	.....	.....	1	14	.....	.....	.....	10	...	2	.....	.....	7	2.93	74.4
Father Point*	N. 48 31	W. 68 28	7.34 a.m.	20	6	29.87	758.7	29.89	759.2	51.4	10.8	88.2	.....	8	4	3	1	.....	.....	8	6	.....	.....	5	0.86	21.8
Fort Garry*	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.05	737.9	29.85	758.2	52.6	11.4	88.7	6	4	1	4	8	2	2	2	1	7554	12137	6	3.21	81.5
Fredericton	N. 45 57	W. 66 39	7.41 a.m.	59	18	29.03	700.2	29.90	761.7	60.3	15.7	78.0	2	5	4	4	1	8	4	2	.....	.....	.....	6	3.27	83.1
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	28.84	732.5	29.91	759.7	50.1	13.4	94.2	.....	3	3	5	6	2	2	1	8	.....	.....	6	7.02	178.3
Halifax*	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.90	759.4	30.03	762.7	57.4	14.1	80.6	.....	6	3	3	2	10	2	2	2	.....	.....	5	4.70	119.4
Hamilton	N. 43 16	W. 79 53	6.49 a.m.	338	103	29.49	749.0	29.88	758.9	61.7	16.5	82.2*p*	.....	.....	.....	20	.....	.....	3	7	.....	.....	.....	4	4.45	113.0
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.00	751.8	29.93	760.2	59.3	15.2	83.6	1	.....	2	15	8	2	.....	2	.....	5224	8407	6	3.01	76.5
Little Glace Bay	N. 46 12	W. 59 58	8.08 a.m.	34	10	29.97*b*	761.2*b*	30.01*b*	762.2*b*	63.4*b*	17.4*b*	77.3*b*	.....	1	1	16	10	1	1	.....	.....	.....	.....	6	3.82	97.0
London	N. 43 00	W. 81 15	6.43 a.m.	816	248	29.05	737.9	29.92	760.0	60.1	15.6	87.1	.....	.....	4	5	5	3	.....	.....	13	.....	.....	6	5.66	143.8
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.72	754.9	29.91	759.7	62.7	17.1	78.5	1*d*	.....	5	9	6	5	.....	2	1	.....	.....	6	3.47	88.1
Ottawa	N. 45 26	W. 75 45	7.05 a.m.	223	68	29.00	753.4	29.90	759.4	61.4	16.3	78.8*g*	1	2	2	10	6	1	4	4	.....	.....	.....	7	2.21	56.1
Parry Sound*	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.20	741.7	29.88	758.9	58.5	14.7	80.8	2	.....	2	7	7	8	1	3	.....	.....	.....	6	3.64	92.5
Peterboro	N. 44 17	W. 78 20	6.54 a.m.	675	206	29.19	741.4	29.91	759.7	63.7	17.6	80.6*h*	1	1	10	6	2	2	1	2	5	.....	.....	5	1.79	45.5
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.24	742.7	29.62	760.0	61.8	16.6	90.6	2	1	2	6	3	2	.....	3	11	4245	6830	6	4.78	121.4
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.29	744.0	29.92	760.0	59.7	15.4	88.1	2	2	7	7	.....	3	9	.....	.....	.....	.....	5	2.77	70.4
Quebec*	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.01	752.1	29.92	760.0	58.5	14.7	92.3	8	.....	2	7	2	.....	1	3	7	.....	.....	8	3.93	99.8
Rockliffe*	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.13	747.5	29.88	758.9	57.0	13.9	87.0*e*	.....	5	4	.....	.....	2	4	1	14	.....	.....	7	6.07	154.2
Saint Andrews	N. 45 04	W. 81 06	6.34 a.m.	47	14	29.92	759.6	29.97	761.2	55.1	12.8	88.5	1	3	.....	3	6	10	2	3	2	.....	.....	4	3.87	98.3
Saint John, N. B.	N. 45 17	W. 66 03	7.44 a.m.	150	46	29.83	757.7	29.99	761.7	56.7	13.7	87.8	5	.....	.....	17	1	4	1	2	.....	.....	.....	4	5.52	140.2
Saint Johns, N.F.	N. 47 34	W. 52 54	8.36 a.m.	230?	70?	29.90	759.4	30.15	765.8	52.1	11.2	85.3	.....	1	3	9	4	10	.....	3	.....	.....	.....	7	2.09	68.3
Saint Pierre	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	30.01	762.2	52.4	11.3	.....	2	4	1	6	1	7	1	3	5	.....	.....	.....	1.87	47.5
Sangeen	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.18	741.2	29.88	758.9	57.4	14.1	85.2	4	3	5	6	5	2	3	2	.....	6449	10328	6	4.54	115.3
Stratford	N. 43 23	W. 81 00	6.44 a.m.	1182	360	28.66	728.0	29.92	760.0	59.1	15.1	86.0	.....	3	7	5	4	3	2	1	5	.....	.....	6	7.84	199.1
Sydney*	N. 46 08	W. 60 10	8.07 a.m.	37	11	29.97	761.2	30.02	762.5	58.1	14.5	82.9	2	2	.....	17	4	1	.....	.....	4	5439	8753	7	3.80	96.5
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.56	750.8	29.93	760.2	59.9	15.5	84.7	1	3	3	7	3	.....	5	3	5	5310	8540	6	4.97	126.2
Windsor *h*	N. 44 59	W. 63 58	7.53 a.m.	87	26	29.89	759.2	29.98	761.5	60.9	16.1	84.1	3	3	5	4	2	7	3	1	.....	.....	.....	6	.....	.....
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	28.88	733.5	29.91	759.7	61.7	16.5	80.7	1	.....	3	7	8	6	2	3	.....	.....	.....	6	5.76	146.3
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	29.95	760.7	30.02	762.5	55.2	12.9	91.6	.....	3	4	6	3	8	2	.....	4	2718	4374	4	2.01	51.1

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Wind. Total Movement. Miles	Wind. Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
CAPE COLONY	° ′	° ′																								
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	30.10	764.5	30.13	765.3	65.9	18.8	70.0	1	5	12	7	.....	.....	1	3	1	.....	.....	3	1.64	41.7
Springbok	S. 29 45	E. 17 43	1.19 p.m.	?	?	27.92	709.2	.....	.....	62.2	16.8	43.4	5	1	.....	3	.....	3	9	9	.....	.....	.....	.....	.....	.....
CHINESE. (*Sub*).																										
Sung-shu-chwang	N. 36 07	E. 103 56	7.04 p.m.	4987	1520	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tchang-kia-tchouang	N. 38 17	E. 116 14	7.53 p.m.	98	30	29.67	753.7	29.78	756.5	79.7	26.5	46	.....	1	1	5	.....	2	5	7	9	.....	.....	7	0.13	3.3
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	22	7	29.79	756.7	29.82	757.3	72.9	22.7	88	2	.....	1	1	1	10	8	4	3	.....	.....	7	4.82	122.3
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.88	759.0	29.95	760.6	65.1	18.4	61	9	5	1	2	3	6	2	2	.....	.....	.....	4	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.95	760.8	29.97	761.3	62.1	16.7	67	.....	8	11	3	3	2	2	1	.....	.....	.....	4	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.79	756.6	29.83	757.7	37.9	3.3	86	4	.....	.....	3	18	.....	.....	5	.....	.....	.....	9	.....	.....
Jacobshavn	N. 69 13	W. 50 55	8.44 a.m.	42	13	29.77	756.2	29.82	757.4	40.8	4.9	.....	4	2	1	3	5	5	2	.....	8	.....	.....	5	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.85	758.3	29.90	759.4	47.3	8.5	84	.....	5	5	2	4	2	8	2	2	.....	.....	7	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.91	759.8	29.94	760.4	51.3	10.7	85	3	.....	7	2	1	4	6	2	5	.....	.....	7	.....	.....
Upernavik	N. 72 47	W. 56 00	8.24 a.m.	39	12	29.74	755.5	29.79	756.7	36.9	2.7	80	3	.....	.....	8	.....	3	3	2	11	.....	.....	7	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.87	758.7	29.96	761.0	59.2	15.1	72	1	9	5	5	4	.....	2	1	3	.....	.....	4	.....	.....
Egyptian.																										
Cairo	N. 30 03	E. 31 21	2.14 p.m.	?	?	29.73	755.2	.....	.....	92.1	33.4	.....	12	3	2	.....	.....	.....	4	9	.....	.....	.....	0	0	0
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.46	748.3	30.10	764.4	67.8	19.9	80.3	.....	10	4	5	1	2	2	3	3	.....	.....	.....	5.28	134.1
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.47	748.4	30.02	762.4	66.2	19.0	73.6	1	4	1	8	8	1	1	6	.....	.....	.....	.....	2.77	70.4
Arras	N. 50 18	E. 2 40	0.19 p.m.	239	73	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	29.89	759.3	29.97	761.3	76.5	24.7	53.3	2	16	4	1	3	2	1	1	.....	.....	.....	7	1.20	30.5
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.44	747.8	29.98	761.4	67.3	19.6	60	3	3	5	3	4	6	2	4	.....	.....	.....	7	2.52	64.1
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.73	755.2	29.99	761.8	68.2	20.1	57.2	3	1	7	3	5	2	4	5	.....	.....	.....	7	1.78	45.2
Besançon	N. 47 14	E. 6 02	0.32 p.m.	843	257	29.07	738.3	29.95	760.6	69.1	20.6	72.1	1	1	.....	17	3	1	1	6	.....	.....	.....	5	3.34	84.7
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.75	755.6	30.00	762.1	68.2	20.1	59.7	3	7	2	8	.....	3	4	3	.....	.....	.....	6	4.65	118.1
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.44	747.8	29.97	761.3	68.9	20.5	56.5	4	6	6	2	5	2	1	4	.....	.....	.....	.....	2.34	59.4
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.80	757.0	30.05	763.2	64.4	18.0	77.8	5	6	1	9	.....	3	.....	3	3	.....	.....	7	11.34	288.0
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	29.88	758.9	29.95	760.7	66.6	19.2	68.5	2	8	8	2	7	2	1	.....	.....	.....	.....	5	7.23	183.6
Chalons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.63	752.6	29.95	760.8	69.6	20.9	70.5	2	2	2	9	10	1	2	1	1	.....	.....	6	4.57	116.1
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.47	748.4	29.96	761.0	70.0	21.1	59.9	4	3	2	2	5	5	3	6	.....	.....	.....	6	2.83	72.0
Clermont-Fd	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.65	727.8	29.97	761.1	69.3	20.7	52.3	9	2	5	3	1	2	2	6	.....	.....	.....	6	2.54	64.6
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.15	740.4	29.98	761.6	69.8	21.0	56.4	7	8	3	.....	1	1	4	4	2	.....	.....	5	3.12	79.3
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.14	740.2	29.98	761.6	65.8	18.8	60.9	2	2	12	3	2	3	4	2	.....	.....	.....	.....	2.96	75.2
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.47	697.7	29.92	760.0	69.1	20.6	58.6	6	1	.....	3	4	4	1	2	9	.....	.....	4	3.09	78.5
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.86	733.1	29.95	760.7	73.6	23.1	46.4	.....	.....	.....	.....	3	12	14	1	.....	.....	.....	4	0.99	25.2
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.21	741.9	29.96	760.9	69.6	20.9	63.4	1	16	4	.....	1	1	5	2	.....	.....	.....	.....	7.89	200.4
Gueret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.45	722.6	30.01	762.2	66.0	18.9	66.8	2	5	2	17	1	.....	1	2	.....	.....	.....	.....	3.86	98.1
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.87	758.7	30.13	765.4	64.9	18.3	74.9	5	10	1	5	5	1	1	1	1	.....	.....	.....	2.12	53.8
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.46	748.2	30.01	762.2	68.0	20.0	65.1	2	2	14	5	.....	2	4	1	.....	.....	.....	6	7.22	183.3
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.92	760.0	30.02	762.6	66.6	19.2	67.6	2	1	8	6	9	2	.....	2	.....	.....	.....	7	3.10	78.6
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	28.95	735.3	29.98	761.5	67.8	19.9	56.6	11	5	1	.....	3	3	4	3	.....	.....	.....	6	3.87	98.3
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.70	754.3	29.99	761.8	66.0	18.9	73.5	5	7	3	5	1	4	2	3	.....	.....	.....	3	3.55	90.2
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.71	754.5	29.97	761.3	72.1	22.3	59.1	.....	1	14	10	1	3	1	.....	.....	.....	.....	.....	0.70	17.9
Mont Louis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.86	631.4	29.70	754.4	56.7	13.7	42.5	1	5	7	8	.....	2	5	2	.....	.....	.....	5	3.60	91.5
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.84	757.9	29.95	760.8	75.0	23.9	69.1	2	.....	.....	.....	.....	12	12	4	.....	.....	.....	3	1.58	40.1
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.21	741.9	29.97	761.3	66.6	19.2	70.6	3	6	4	7	7	1	2	.....	.....	.....	.....	.....	2.92	74.3
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.87	758.8	30.04	762.9	69.1	20.6	61.1	2	5	5	11	2	1	3	1	.....	.....	.....	8	2.83	71.8
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.89	759.3	30.00	762.1	71.8	22.1	53.6	4	8	2	.....	1	1	5	8	1	.....	.....	6	1.02	26.0
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.28	540.5	.....	.....	38.7	3.7	.....	.....	5	7	12	1	2	.....	2	1	.....	.....	5	10.78	273.7
Privas [mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	28.93	734.8	29.96	760.9	71.1	21.7	54.7	13	1	.....	.....	10	1	1	4	.....	.....	.....	5	3.42	86.9
Puy de Dome	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.19	639.7	.....	.....	47.8	8.8	86.3	2	3	7	7	1	5	1	4	.....	.....	.....	7	5.33	135.3
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	29.96	761.0	29.99	761.7	72.5	22.5	57.6	2	1	6	10	1	1	2	1	6	.....	.....	4	7.40	188.0
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.76	755.9	29.97	761.2	69.1	20.6	65.9	2	3	8	9	3	3	2	.....	.....	.....	.....	4	3.31	84.1
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.90	708.7	29.99	761.8	66.4	19.1	.....	.....	20	.....	.....	.....	2	4	.....	4	.....	.....	.....	3.37	85.7
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	29.93	760.3	29.98	761.5	67.6	19.8	62.1	4	1	9	5	6	2	2	1	.....	.....	.....	5	2.84	72.2
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.83	757.7	29.99	761.8	68.0	20.0	57.4	6	.....	3	11	3	2	1	2	2	.....	.....	6	2.02	51.3
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.35	745.6	30.08	764.0	70.0	21.1	65.2	4	7	5	3	1	7	.....	3	.. ..	.....	.....	5	4.97	126.3
Tours	N. 47 24	E. 0 41	0.11 p.m.	167	51	29.83	757.7	29.99	761.8	70.0	21.1	55.8	3	3	3	9	5	2	2	3	.....	.....	.....	.....	2.89	73.4
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.50	749.4	30.00	761.9	67.1	19.5	57.2	3	5	7	7	2	2	1	3	.....	.....	.....	.....	2.70	68.6
Sub-Series.																										
St. Martin du Hinx.	N. 43 35	W. 1 16	0.03 p.m.	131	40	29.91	759.7	30.06	763.4	68.9	20.5	66.7	1	10	13	.....	.....	.....	5	1	.....	.....	.....	6	7.99	202.9
GERMAN.																										
Ansbach	N. 45 18	E. 10 36	0.50 p.m.	1358	414	28.55	725.1	29.95	760.6	69.8	21.0	51.9	1	2	6	1	.....	.....	7	8	5	.....	.....	5	2.35	59.6
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.10	739.2	29.95	760.6	70.7	21.5	51.7	.....	4	6	4	3	5	1	7	.....	.....	.....	5	0.94	23.9
Berlin	N. 52 30	E. 13 19	1.02 p.m.	131	40	29.80	757.0	29.95	760.6	72.1	22.3	46.8	3	12	2	2	.....	3	1	3	4	.....	.....	6	0.20	5.1
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.43	747.6	29.97	761.1	68.2	20.1	52.7	5	5	5	1	1	1	8	4	.....	.....	.....	6	3.69	93.7
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	413	126	29.51	749.6	29.96	760.9	72.7	22.6	48.4	6	1	2	11	2	.....	5	3	.....	.....	.....	7	2.06	52.2
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.24	742.8	29.96	761.0	72.0	22.2	47.6	6	6	3	4	7	1	1	2	.....	.....	.....	6	1.16	29.5
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	.....	.....	29.93	760.1	73.6	23.1	45.3	5	2	2	6	5	2	5	3	.....	.....	.....	5	1.07	27.2
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1339	408	28.58	725.8	29.95	760.7	67.6	19.8	69.8	.....	.....	2	18	3	.....	.....	7	.....	.....	.....	6	5.69	144.5
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.89	759.2	29.98	761.4	68.2	20.1	63.6	2	12	1	3	2	4	2	3	1	.....	.....	4	0.38	9.7
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	29.96	760.9	29.97	761.3	64.8	18.2	56.1	4	6	3	2	2	3	.....	9	1	.....	.....	5	0.70	17.8
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.55	750.6	29.96	760.9	71.4	21.9	45.5	2	9	3	3	1	3	2	7	.....	.....	.....	6	1.19	30.2
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.76	756.0	29.95	760.7	71.6	22.0	50.7	4	3	11	3	1	4	2	1	1	.....	.....	5	1.42	36.0
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	29.92	759.9	29.97	761.1	65.3	18.5	66.1	3	4	9	6	1	1	3	3	.....	.....	.....	5	1.91	48.5
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28 17	715.4	30.02	762.6	66.4	19.1	59.7	4	6	1	1	.....	..	6	9	3	.....	.....	6	6.76	171.6
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	29.94	760.5	29.96	760.9	66.2	19.0	65.0	8	4	2	.....	.. ...	2	8	6	.....	.....	.....	6	1.78	45.2
Neustadt	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.41	747.1	29.94	760.4	72.3	22.4	50.0	2	.....	13	.....	1	1	5	3	5	.....	.....	6	0.68	17.4
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.01	736.9	29.88	758.9	70.3	21.3	52.8	8	4	6	1	4	1	3	3	.....	.....	.....	6	3.26	82.7
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	29.97	761.3	30.00	762.0	64.8	18.2	64.3	9	2	7	4	.....	3	3	2	.....	.....	.....	6	0.32	8.2
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	361	110	29.52	749.9	29.89	759.1	81.9	27.7	.....	3	2	1	8	11	1	1	3	.....	.....	.....	3	0.45	11.4
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.45	748.1	29.50	749.4	86.7	30.4	69	.....	1	16	10	3	.....	.....	.....	.....	.....	.....	5	0	0
Deesa	N. 24 16	E. 72 14	4.57 p.m.	466	142	29.02	737.2	29.48	748.6	99.5	37.5	34	.....	1	3	17	6	3	.....	.....	.....	.....	.....	3	1.87	47.5
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.62	752.2	29.65	753.2	83.8	28.8	82	.....	1	10	11	7	1	.....	.....	.....	.....	.....	9	13.65	346.7
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	27.82	706.7	29.67	753.5	78.7	25.9	40	.....	5	11	14	.. ...	.....	.....	.....	.....	.....	.....	10	10.10	256.5
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.42	747.4	29.70	754.3	92.9	33.8	46	.....	5	15	6	2	.....	.....	.....	2	.....	.....	3	2.63	66.8
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.19	690.6	29.74	755.3	72.2	22.3	85	.....	2	15	8	1	1	3	.....	.....	.....	.....	9	10.04	255.0
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	28.66	727.9	29.35	745.6	105.5	40.8	25	2	2	8	1	.....	1	7	2	7	.....	.....	3	0.58	14.7
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	28.54	725.0	29.40	746.8	95.0	35.0	45	2	3	5	1	.....	2	7	.....	10	.....	.....	2	9.53	242.1
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	28.88	733.6	29.42	747.2	100.3	37.9	33	1	7	8	2	6	1	.....	5	.....	.....	.....	5	1.15	29.2
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.50	724.0	29.52	749.9	86.5	30.3	62	3	6	4	8	1	2	1	.....	5	.....	.....	9	11.37	288.8
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1341	409	28.18	715.8	29.50	749.3	89.0	31.7	54	1	9	4	2	3	3	3	.....	5	.....	.....	8	9.25	235.0
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	113	29.08	738.5	29.44	747.7	97.4	36.3	45	2	4	3	1	.....	2	9	7	2	.....	.....	3	3.60	91.4
Alahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.13	739.9	29.43	747.4	95.7	35.4	48	.....	3	.....	1	.....	2	4	11	9	.....	.....	5	3.87	98.3
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.30	744.2	29.48	748.8	89.0	31.7	63	5	3	2	1	.....	5	11	3	.....	.....	.....	7	14.83	376.7
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.52	699.0	29.49	749.0	82.8	28.2	67	6	3	2	2	5	4	4	2	2	.....	.....	9	7.05	179.1
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.44	747.8	29.52	749.8	85.1	29.5	75	.....	5	15	1	.....	1	1	1	6	.....	.....	8	16.84	427.7
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	6	29.48	748.8	29.50	749.3	84.3	29.1	80	.....	1	1	8	13	5	2	.....	.....	.....	.....	8	10.22	259.6
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	115	35	29.43	747.4	29.54	750.4	82.8	28.2	81	.....	.....	.....	3	1	1	6	3	16	.....	.....	7	12.92	328.2
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.52	749.8	29.61	752.1	80.4	26.9	88	...	.....	4	3	9	10	2	.....	2	.....	.....	8	2.10	53.3
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.25	742.8	29.58	751.2	84.4	29.1	81	.....	.....	.....	11	.....	4	.....	14	1	.....	.....	9	7.67	194.8
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.07	712.9	29.46	748.2	95.0	35.0	46	3	12	4	3	2	2	2	2	.....	.....	.....	5	3.15	80.0
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.20	716.3	.....	.....	88.1	31.2	26	1	1	18	9	.....	.....	1	.....	.....	.....	.....	9	0	0
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	30.02	762.5	30.04	763.0	83.1	28.4	58	.. ...	.....	1	8	12	9	.....	.....	.....	.....	.....	4	0	0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for June, 1883. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
ITALIAN.	° ′	° ′																								
Udine	N. 46 04	E. 13 13	1.01 p.m.	381	116	29.54	750.2	29.93	760.3	73.9	23.3	62	.....	.....	1	11	6	5	6	1	.....	.....	.....	7	10.46	265.7
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.44	747.7	29.94	760.5	73.6	23.1	53	1	3	.....	9	3	9	.....	5	.....	.....	.....	6	4.44	112.9
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.81	757.2	29.92	759.9	74.5	23.6	50	2	2	9	5	1	4	2	4	1	.....	.....	6	3.76	95.5
Moncalieri	N. 45 00	E. 7 41	0.39 p.m.	846	258	29.04	737.6	29.92	760.0	70.2	21.2	64	6	10	2	.....	2	.....	3	7	.....	.....	.....	6	7.74	196.7
Genoa	N. 44 24	E. 8 55	0.44 p.m.	157	48	29.77	756.2	29.96	761.0	70.2	21.2	66	2	.....	.....	11	5	9	1	2	.....	.....	.....	6	2.86	72.6
Mondovi	N. 44 23	E. 7 48	0.39 p.m.	1824	556	28.06	712.7	29.93	760.1	67.5	19.7	61	5	8	5	.....	2	3	6	1	.....	.....	.....	4	4.61	117.2
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	29.87	758.6	29.91	759.8	72.1	22.3	67	2	2	2	4	.....	11	3	6	.....	.....	.....	7	1.65	42.0
Florence	N. 43 46	E. 11 15	0.53 p.m.	240	73	29.70	754.3	29.95	760.7	74.8	23.8	54	.....	3	8	12	1	1	2	3	.....	.....	.....	6	3.37	85.5
Leghorn	N. 43 33	E. 10 18	0.49 p.m.	79	24	29.83	757.7	29.91	759.8	72.1	22.3	65	.....	4	13	6	7	.....	.....	.....	.....	.....	.....	5	1.59	40.4
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.78	756.4	29.95	760.7	77.0	25.0	47	1	2	11	7	4	1	1	1	2	.....	.....	5	3.53	89.6
Lecce	N. 40 22	E. 18 12	1.21 p.m.	236	72	29.69	754.1	29.93	760.3	79.5	26.4	39	3	1	1	4	2	2	11	.....	.....	.....	.....	2	1.32	33.4
Cosenza	N. 39 19	E. 16 17	1.13 p.m.	840	256	29.08	738.7	29.93	760.3	82.0	28.1	68	.....	2	12	10	3	3	.....	.....	.....	.....	.....	3	0.27	6.8
Cagliari	N. 39 30	E. 9 00	0.45 p.m.	180	55	29.76	755.8	29.95	760.6	74.1	23.4	54	.....	10	2	1	5	12	.....	.....	.....	.....	.....	3	1.19	30.3
Palermo	N. 38 07	E. 13 21	1.02 p.m.	236	72	29.75	755.7	30.00	761.9	74.1	23.4	55	.....	4	2	.....	.....	.....	6	18	.....	.....	.....	4	0.15	3.7
Syracuse	N. 37 03	E. 15 15	1.09 p.m.	72	22	29.89	759.2	29.93	760.3	79.0	26.1	61	6	.....	1	1	7	.....	7	7	1	.....	.....	4	0.04	1.0
Sub-Series.																										
Naples	N. 40 52	E. 14 15	1.05 p.m.	489	149	29.46	748.3	29.97	761.3	74.3	23.5	64.6	.....	2	5	12	5	3	1	2	.....	.....	.....	5	1.61	41.0
Stelvio	N. 46 32	E. 10 25	0.50 p.m.	8343	2543	22.21	564.2	.....	.....	43.4	6.3	70.6	.....	.....	2	8	1	4	6	9	.....	.....	.....	8	6.62	168.2
Valdobbia	N. 45 47	E. 7 51	0.40 p.m.	8360	2548	22.22	564.3	.....	.....	44.1	6.7	71.4	10	3	.....	.....	..	1	12	4	.....	.....	.....	9	2.74	69.5
JAPANESE.																										
Akita	N. 39 42	E. 140 07	9.28 p.m.	32	10	29.86	758.5	29.89	759.1	61.5	16.4	88.9	.....	1	2	2	....	3	2	.....	20	.....	.....	6	4.22	107.1
Awomori	N. 40 51	E. 140 45	9.31 p.m.	32	10	29.84	757.9	29.87	758.8	59.7	15.4	81.0	7	4	7	3	2	1	3	3	.....	.....	.....	5	2.52	63.9
Hamamatsu	N. 34 43	E. 137 43	9.19 p.m.	26	8	29.88	759.1	29.91	759.8	67.8	19.9	85.1	2	.....	3	1	5	1	6	.....	12	.....	.....	6	4.59	116.5
Kanazawa	N. 36 33	E. 136 40	9.14 p.m.	95	29	29.79	756.7	29.89	759.2	65.6	18.7	85.8	1	5	5	1	1	1	14	2	.....	3329	5357	7	2.43	61.7
Kagoshima	N. 31 35	E. 130 33	8.50 p.m.	14	4	29.88	759.0	29.89	759.2	72.1	22.2	82.7	4	8	3	2	.....	....	3	3	7	.....	.....	7	10.79	273.8
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.72	754.9	29.89	759.3	68.0	20.0	79.5	11	.....	2	.....	9	2	1	5	.....	.....	.....	6	6.04	153.1
Kochi	N. 33 33	E. 133 34	9.02 p.m.	20	6	29.88	758.9	29.90	759.4	70.0	21.5	87.6	5	3	8	4	3	3	3	1	.....	4364	7023	8	10.82	274.8
Miasaka	N. 31 56	E. 131 20	8.54 p.m.	26	8	29.87	758.7	29.90	759.4	71.0	21.7	88.7	4	3	6	1	2	2	6	6	.....	.....	.....	8	11.57	294.0
Miyako	N. 39 38	E. 141 59	9.36 p.m.	98	30	29.80	757.0	29.91	759.8	56.8	13.8	89.1	2	1	11	3	4	.....	3	2	4	922	1484	7	1.75	44.4
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	29.67	753.6	29.87	758.7	70.3	21.3	86.7	5	1	5	6	.....	2	3	2	6	2920	4709	6	16.30	414.0
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	29.86	758.4	29.89	759.3	64.7	18.2	82.4	5	2	1	4	.....	5	3	9	1	4166	6704	6	2.41	61.2
Nobiru	N. 38 23	E. 141 11	9.32 p.m.	15	5	29.89	759.3	29.91	759.7	61.4	16.3	88.7	2	1	.....	.....	12	4	5	2	4	6266	10084	7	4.00	103.1
Numazu	N. 35 06	E. 138 51	9.23 p.m.	32	10	29.88	758.9	29.91	759.8	67.4	19.6	83.1	2	3	5	3	7	3	4	1	2	.....	.....	7	3.89	98.9
Osaka	N. 34 42	E. 135 30	9.10 p.m.	13	4	29.87	758.7	29.89	759.1	68.9	20.5	80.1	4	0	6	3	.....	.....	.....	11	.....	6296	10133	7	4.25	107.9
Sakai	N. 35 01	E. 133 31	9.01 p.m.	10	3	29.87	758.7	29.88	758.9	67.0	19.4	83.0	7	.....	3	1	.....	1	3	10	5	.....	.....	6	1.79	45.4
Shimonoseki	N. 33 58	E. 130 56	8.52 p.m.	13	4	29.73	755.2	29.88	758.9	67.9	19.9	87	.....	.....	1	1	.....	....	6	1	21	.....	.....	5	10.23	259.8
Tokei	N. 35 41	E. 139 46	9.27 p.m.	69	21	29.83	757.8	29.91	759.7	66.0	18.9	84.4	1	.....	1	1	15	1	10	1	.....	5800	9334	6	3.58	90.8
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	29.83	757.6	29.88	758.9	69.9	21.1	78.3	4	2	.....	6	5	....	.....	.....	13	3266	5256	7	3.96	100.5
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.90	759.4	30.09	764.4	73.9	23.3	67.1	1	2	.....	1	.....	11	15	.....	.....	.....	.....	4	1.97	50.0
MEXICAN.																										
Guanajuato	N. 21 01	W. 100 48	5.24 a.m.	6762	2061	23.69	601.8	29.91	759.8	60.8	16.0	79.7	2	2	1	1	1	2	9	6	6	.....	.....	5	11.10	281.8
Leon	N. 21 07	W. 101 35	5.22 a.m.	5901	1799	24.33	618.0	29.95	760.7	61.1	16.2	83.6	5	6	4	5	4	1	3	1	1	.....	.....	8	4.84	122.9
Mazatlan	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.66	753.5	29.92	760.0	70.1	24.5	86.7	5	3	1	.....	.....	2	16	3	.....	.....	.....	6	0.00	1.5
Mexico	N. 19 26	W. 99 00	5.32 a.m.	7490	2283	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Morelia	N. 19 42	W. 101 06	5.22 a.m.	6247	1940	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pabellon	N. 22 04	W. 102 04	5.20 a.m.	6312	1924	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Puebla	N. 19 02	W. 98 03	5.36 a.m.	7113	2168	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sub-Series.																										
Altata	N. 24 40	W. 107 55	4.56 a.m.	?	?	.....	.....	.....	.....	75.1	23.9	87.0	3	.....	.....	.....	9	9	8	1	.....	.....	.....	4	0.43	10.9
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	29.98	761.6	29.98	761.6	66.6	19.2	.....	9	.....	4	4	4	2	5	2	.....	.....	.....	.....	1.46	37.2
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	29.93	760.2	29.98	761.6	63.3	17.4	.....	10	5	1	4	3	1	3	3	.....	.....	.....	.....	0.49	12.4
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	29.98	761.5	29.98	761.5	60.1	15.6	.....	1	5	2	9	.....	.....	6	7	.....	.....	.....	.....	0.68	17.2
Helleyoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	29.98	761.5	29.98	761.5	67.5	19.7	62.2	4	3	3	5	2	.....	6	3	4	.....	.....	.....	1.05	41.8
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	29.95	760.6	29.99	761.8	68.7	20.4	57.9	9	3	2	4	4	5	1	2	.....	.....	.....	.....	1.20	30.4
Sub-Series.																										
Batavia	S. 6 11	E. 106 48	7.15 p.m.	?	?	29.88	759.0	.....	.....	80.6	27.0	78.7	5	2	.....	.....	.....	.....	2	21	.....	.....	.....	4	0.04	1.0
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.87	758.7	29.93	760.3	57.9	14.4	63.9	.....	10	5	1	11	1	1	1	.....	.....	.....	7	4.47	113.5
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.92	759.9	29.96	760.9	58.1	14.5	65.8	11	2	2	9	.....	2	.....	1	3	.....	.....	5	2.17	55.0
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.77	756.2	29.91	759.8	65.8	18.8	50.8	4	1	.....	6	11	.....	3	5	.....	.....	.....	6	3.41	86.6
Gjæsvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.96	760.9	29.98	761.5	51.8	11.0	.....	1	.....	10	5	1	.....	.....	4	9	.....	.....	7	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.91	759.8	29.96	761.0	58.1	14.5	61.9	.....	.....	.....	12	4	.....	1	7	6	.....	.....	4	1.41	35.7
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	29.96	761.0	30.12	765.0	64.4	18.0	86.9	3	5	3	1	2	12	4	.....	.....	.....	.....	6	7.76	197.0
Campo Major	N. 39 02	W. 6 59	11.40 a.m.	945	288	29.01	737.9	30.02	762.6	73.2	22.9	46.1	5	5	9	4	3	3	.....	1	.....	.....	.....	5	1.82	46.3
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.10	764.6	30.19	766.8	68.7	20.4	63.9	1	.....	.....	21	1	4	2	.....	1	.....	.....	7	0.70	17.9
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	312	95	29.74	755.5	30.08	763.9	67.6	19.8	57.9	7	8	.....	7	4	1	.....	3	.....	.....	.....	4	0.48	12.3
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	20.08	764.1	30.15	765.9	67.8	19.9	76.2	2	1	4	5	.....	11	1	2	4	.....	.....	6	3.75	95.3
St. Paul de Loandao	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.80	756.9	30.00	762.1	74.7	23.7	88.2	1	6	15	6	2	.....	.....	.....	.....	.....	.....	4	0	0
San Salvador	S. 6 17	E. 14 53	12.33 p.m.	559	1834	28.14	714.7	29.98	761.4	76.6	24.8	61.2	.....	2	.....	9	11	2	4	.....	2	.....	.....	5	0	0
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.35	643.8	30.04	763.1	52.9	11.6	65.9	3	4	5	1	2	2	11	1	1	.....	.....	5	8.52	216.4
RUSSIAN																										
Akmolinskia	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.63	727.3	29.66	753.3	71.6	22.0	38.4	3	3	2	3	2	1	6	7	2	.....	.....	4	0.60	15.3
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.96	761.0	29.98	761.6	68.5	20.3	46.0	7	9	4	1	2	3	.....	3	1	.....	.....	5	0.91	23.0
Ashurada	N. 36 54	E. 53 55	3.44 p.m.	79	24	29.88	758.9	29.78	756.5	81.1	27.3	72.4	2	13	13	2	.....	.....	.....	.....	.....	.....	.....	4	0.25	6.4
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	68	21	29.88	759.0	29.80	756.9	79.7	26.5	43.4	3	5	5	8	4	2	.....	2	1	.....	.....	6	1.09	27.8
Baku	N. 40 21	E. 49 51	3.28 p.m.	39	12	29.82	757.4	29.86	758.5	77.9	25.5	59.1	14	4	.....	.....	7	5	.....	.....	.....	.....	.....	2	0.45	11.5
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.23	742.4	29.71	754.0	63.9	17.7	50.7	5	7	1	4	4	2	.....	3	4	.....	.....	7	2.76	70.0
Bieloserk	N. 60 02	E. 37 47	2.39 p.m.	430?	131?	29.50	749.4	29.95	760.8	69.1	20.6	59.4	7	10	2	2	4	1	1	3	.....	.....	.....	5	3.48	88.5
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.70	754.5	29.94	760.4	69.8	21.0	57.9	3	.....	6	5	1	3	6	5	1	.....	.....	6	4.39	111.4
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.91	734.3	29.84	758.0	65.7	18.7	51.2	5	5	6	2	2	2	2	3	3	.....	.....	7	2.47	62.8
Elissawetgrad	N. 48 31	E. 32 17	2.17 p.m.	417?	127?	29.40	748.2	29.89	759.1	75.9	24.4	46.7	3	6	6	3	1	4	5	2	.....	.....	.....	7	3.10	78.8
Irkutsk	N. 52 16	E. 104 16	7.05 p.m.	1536	468	28.15	714.9	29.73	755.2	61.7	16.5	63.2	4	2	1	.....	2	3	.....	.....	18	.....	.....	7	5.18	131.5
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.56	750.8	29.82	757.3	71.6	22.0	49.4	1	3	4	3	2	3	.....	5	9	.....	.....	8	1.27	32.2
Kem	N. 64 57	E. 34 39	2.20 p.m.	43	13	29.94	760.4	29.99	761.7	66.4	19.1	53.1	.....	2	4	5	...	1	10	8	.....	.....	.....	4	0.47	11.9
Kertchb	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	29.84	758.0	29.87	758.6	74.8	23.8	56.1	5	.....	.....	.....	1	2	2	6	12	.....	.....	4	3.08	78.3
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.23	742.5	29.84	757.9	73.2	22.9	51.3	6	2	3	2	4	3	6	2	.....	.....	.....	5	2.70	68.6
Kosloy	N. 52 53	E. 40 31	2.50 p.m.	466?	142?	29.31	744.5	29.83	757.7	68.2	20.1	78.1	6	3	4	3	2	1	2	8	1	.....	.....	7	5.98	152.0
Libau	N. 56 31	E. 21 01	1.32 p.m.	20	6	29.91	759.7	29.93	760.3	62.2	16.8	68.0	1	5	4	12	.....	2	3	3	.....	.....	.....	5	1.87	47.4
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.58	751.4	29.76	755.9	76.6	24.8	43.4	4	8	4	6	1	2	1	4	.....	.....	.....	6	1.20	30.6
Moscow	N. 55 46	E. 37 40	2.39 p.m.	44$	13$	29.40	716.7	29.85	758.2	70.3	21.3	52.3	4	4	1	1	2	5	3	8	2	.....	.....	7	2.95	74.9
Nikolaiev	N. 46 58	E. 31 58	2.10 p.m.	62	19	29.83	757.6	29.90	759.5	79.2	26.2	54.8	3	3	1	4	3	2	3	4	7	.....	.....	4	0.76	19.3
Nikolaievsk *a*	N. 53 08	E. 140 45	9.31 p.m.	59	18	29.07	753.5	29.75	755.7	52.0	11.1	79.6	2	1	1	.....	.....	6	9	2	8	.....	.....	8	1.28	32.4
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	29.59	751.6	29.73	755.2	79.7	26.5	45.2	.....	2	.....	3	3	9	.....	1	12	.....	.....	3	0.22	5.6
Petro-Alexandrovsk	N. 41 28	E. 61 05	4.12 p.m.	328	100	29.41	747.1	29.74	755.4	91.4	33.0	20.4	10	7	3	1	...	1	1	2	5	.....	.....	2	0.58	14.6
Petrozavodsk	N. 61 47	E. 34 23	2.20 p.m.	180?	55?	29.76	755.9	29.95	760.7	69.6	20.9	49.7	3	2	2	1	2	10	3	7	.....	.....	.....	4	1.00	25.3
Plask	N. 52 07	E. 20 06	1.52 p.m.	459?	140?	29.39	740.4	29.87	758.6	72.3	22.4	59.8	3	3	2	1	3	7	7	1	3	.....	.....	6	5.47	139.0
Poti	N. 42 09	E. 41 37	2.54 p.m.	466?	142?	29.83	757.7	29.86	758.5	75.4	24.1	80.0	3	9	5	6	4	.....	2	.....	1	.....	.....	4	9.73	247.2
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	20	6	29.94	760.4	29.96	761.0	68.4	20.2	50.2	2	9	3	.....	4	3	5	4	.....	.....	.....	5	0.66	16.7
Samarkand	N. 39 39	E. 66 57	4.30 p.m.	2379?	725?	27.38	695.4	29.67	753.7	85.6	29.8	36.6	.....	1	1	.....	2	3	2	5	16	.....	.....	1	0.32	8.2
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.13	739.8	29.75	755.7	72.1	22.3	38.5	5	10	1	3	.....	.....	2	2	7	.....	.....	5	1.59	38.0
Sevastopol	N. 44 37	E. 33 31	2.22 p.m.	423?	42?	29.65	753.2	29.87	758.7	75.9	24.4	52.9	1	7	8	10	4	.....	.....	.....	.....	.....	.....	4	4.25	107.9
Starot Bykhov	N. 53 31	E. 30 16	2.09 p.m.	423?	129?	29.49	749.0	29.92	760.1	74.1	23.4	51.8	2	.....	.....	2	2	6	8	10	.....	.....	.....	8	1.59	40.4
Tashkend	N. 41 20	E. 69 18	4.45 p.m.	1607?	490?	28.10	713.7	29.03	752.7	89.8	32.1	30.8	2	2	.....	1	.....	.....	.....	1	24	.....	.....	3	0.55	14.0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Wind. Total Movement. Miles	Wind. Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
RUSSIAN.—Cont'd	° ′	° ′																								
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1313	409	28.44	722.5	29.79	756.6	79.3	26.3	42.3	2	10	2	.....	6	5	2	.....	3	.....	.....	6	2.68	68.2
Vernoe	N. 43 16	E. 76 53	5.16 p.m.	2401?	732?	27.26	692.4	29.62	752.3	77.0	25.0	47.6	.....	.....	2	5	.....	1	2	5	15	.....	.....	4	3.32	84.2
Viatka *b*	N. 58 36	E. 49 41	3.27 p.m.	581?	177?	29.25	743.0	29.86	758.4	70.0	21.1	48.4	4	4	.....	1	1	1	2	3	12	.....	.....	4	1.50	38.0
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.48	748.7	29.88	759.0	70.2	21.2	56.6	7	5	2	2	4	4	3	2	1	.....	.....	6	4.62	117.4
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	29.50	749.2	29.78	756.4	54.7	12.6	60.9	.....	6	14	3	1	2	2	1	1	.....	.....	6	2.56	65.0
SCOTTISH.																										
Monach Light H.	N. 57 31	W. 7 42	11.37 a.m.	150	46	.....	.....	29.93	760.2	55.1	12.8	93.0	5	3	2	4	5	4	3	3	1	.....	.....	6	2 80	71.1
North Unst	N. 60 51	W. 0 53	0.04 p.m.	230	70	.....	.....	29.93	760.2	.....	.....	.....	6	1	9	1	2	5	3	3	.....	.....	.....	6	.....	.....
SPANISH.																										
Barcelona	N. 41 23	E. 2 15	0.16 p.m.	98	30	29.93	760.3	30.04	762.9	72.5	22.5	64.3	.....	.....	1	9	10	3	6	1	.....	1793	2885	2	1.59	40.4
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	30.01	762.3	30.07	763.8	72.5	22.5	61	.....	23	.....	1	1	5	.....	.....	.....	1952	3142	6	3.65	92.7
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.11	688.7	30.02	762.4	64.8	18.2	56	7	.....	.....	12	3	.....	1	7	.....	4023	6475	4	1.44	36.6
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.81	706.4	29.97	761.3	73.6	23.1	39.3	1	1	4	13	2	2	2	5	.....	7819	12583	4	1.26	32.1
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	29.86	758.4	30.00	761.9	71.8	22.1	55	.....	1	1	.....	7	7	8	6	.....	1663	2677	4	0.73	18.6
Oviedo	N. 43 23	W. 5 49	11.45 a.m.	800	244	29.30	744.2	30.06	763.5	60.8	16.0	70	14	.....	.....	.....	1	4	9	2	.....	.....	.....	8	4.63	117.7
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.14	740.2	30.02	762.6	64.6	18.1	67.2	9	1	2	11	1	.....	.....	4	2	6677	10745	6	5.72	145.2
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	29.98	761.5	30.04	763.2	79.1	26.2	80.9	.....	.....	.....	.....	.....	8	20	2	.....	.....	.....	7	7.40	188.3
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	29.82	757.4	29.88	758.8	80.1	26 7	82.2	3	2	2	9	1	5	4	4	.....	.....	.....	7	10.17	258.4
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	29.98	761.6	30.08	764.0	73.0	22.7	60	.....	3	16	3	3	.....	5	.....	.....	.....	.....	3	1.03	26.2
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	29.99	761.7	30.08	764.0	80.1	26.7	91	.....	.....	.....	.....	6	10	.....	.....	14	.....	.....	3	5.54	140.8
SWEDISH.																										
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.94	760.4	29.98	761.4	65.3	18.5	61	1	2	2	6	14	1	2	2	.....	.....	.....	4	1.26	32.0
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.93	760.1	29.98	761.4	67.1	19.5	50	1	3	.....	13	3	4	4	2	.....	.....	.....	4	0.89	22.7
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.91	759.8	29.97	761.1	64.8	18.2	57	2	.....	1	4	9	3	1	8	2	.....	.....	5	1.15	29.1
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.78	756.3	29.95	760.8	65.7	18.7	56	7	1	3	3	7	2	2	4	.....	.....	.....	7	1.40	35.5
Wisby	N. 57 39	E. 18 19	1.21 p.m.	52	16	29.85	758.2	29.91	759.7	60.6	15.9	72	3	3	8	3	1	3	5	4	.....	.....	.....	5	2.30	58.5
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.85	758.2	29.94	760.4	65.5	18.6	56.7	9	1	1	7	2	3	2	5	.....	.....	.....	6	1.70	43.2
SWISS.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.59	726.1	29.97	761.3	66.2	19.0	59.9	15	1	1	3	8	.....	.....	2	.....	.....	.....	6	2.55	64.8
TURKISH.																										
Constantinople	N 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	29.90	759.4	76.5	24.7	58	11	2	1	2	3	2	2	7	.....	.....	.....	5	2.64	67.0
Valona	N. 40 27	E. 19 27	1.26 p.m.	105	32	.....	.....	30.10	764.4	79.2	26.2	.....	.....	9	7	12	2	.....	.....	.....	.....	.....	.....	2	0.63	16.0
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	29.85	758.2	82.6	28.1	61.0	1	2	5	22	.....	.....	.....	.....	.....	.....	.....	2	0	0
Samakov *d*	N. 42 12	E. 23 45	1.42 p.m.	?	?	26.73*e*	678.9*e*	.....	.....	67.2	19.6	73.4	.....	1	5	.....	.....	.....	2	.....	18	.....	.....	6.37	161.8
UNITED STATES.																										
Albany	N. 42 39	W. 73 45	7.13 a.m.	75	23	29.92	760.0	30.00	762.0	69.0	20.6	69.6	3	.....	5	3	15	3	.....	.....	1	4357	7012	6	6.30	160.0
Alpena	N. 45 05	W. 83 30	6.34 a.m.	609	185	29.24	742.7	29.90	759.4	57.4	14.1	79.0	2	4	6	4	2	5	2	1	4	6065	9760	6	5.47	138.9
Apache, Fort	N. 33 48	W. 109 57	4.48 a.m.	5050	1539	25.04	636.0	29.80	756.9	49.2	9.6	57.3	.....	.....	.....	1	.....	.....	24	5	.....	5941	9561	1	0.02	0.5
Assinnaboine, Ft.	N. 48 32	W. 109 42	4.49 a.m.	2710	826	27.14	689.3	29.93	760.2	52.2	11.2	65.8	1	5	4	13	3	.....	2	1	1	7821	12586	4	0.77	19.6
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1131	345	28.91	734.3	30.06	763.5	71.5	21.9	82.7	1	5	1	6	4	1	6	.....	6	4899	7880	6	2.31	58.7
Atlantic City	N. 39 22	W. 74 25	7.10 a.m.	13	4	29.99	761.7	30.00	762.0	65.9	18.8	87.3	4	1	2	6	6	9	1	1	.....	5767	9281	4	3.53	89.7
Augusta	N. 33 28	W. 81 54	6.40 a.m.	183	56	29.89	759.2	30.08	764.0	73.7	23.2	83.1	2	2	4	3	6	4	2	3	4	2547	4099	6	5.85	148.6
Baltimore	N. 39 18	W. 76 37	7.02 a.m.	45	14	29.97	761.2	30.02	762.5	71.0	21.7	74.8	4	6	3	3	8	1	4	1	.....	4072	6553	4	8.08	205.2
Barnegat City	N. 39 46	W. 74 06	7.12 a.m.	20	6	29.99	761.7	30.01	762.2	67.9	19.9	84.7	4	1	4	8	5	3	2	2	1	8938	14384	4	4.09	103.9
Behring Id	N. 55 12	E. 165 55	11.12 p.m.	20	6	29.75	755.6	29.77	756.1	39.4	4.1	92.2	4	1	1	4	11	3	5	1	.....	8390	13502	9	2.72	769.1
Bennett, Fort	N. 44 43	W. 100 39	5.26 a.m.	1510	457	28.30	720.3	29.90	759.4	58.6	14.8	83.1	1	7	1	1	1	10	.....	2	7	5765	9278	4	3.99	101.3
Benton, Fort *f*	N. 47 50	W. 110 40	4.45 a.m.	2700	823	27.17	690.1	29.94	760.5	56.8	13.8	62.9	.....	.....	2	5	.....	.....	.....	2	21	4499	7240	3	1.93	49.0
Billings	N. 45 49	W. 108 30	4.54 a.m.	3115?	949?	26.73	678.9	29.87	758.7	48.3	9.1	72.0	2	2	5	3	1	.....	4	3	6	3905	6284	5	2.83	71.9
Bismarck	N. 46 47	W. 100 38	5.26 a.m.	1694	516	28.11	714.0	29.87	758.7	57.3	14.1	81.0	2	6	4	3	2	4	4	4	1	6094	9807	4	3.84	97.5
Block Id *a*	N. 41 10	W. 71 36	7.22 a.m.	27	8	29.99	761.7	30.02	762.5	63.4	17.4	91.7	2	1	4	9	3	6	3	1	.....	8850	14242	4	1.54	39.1
Boise City	N. 43 37	W. 116 08	4.24 a.m.	2750	838	27.18	690.4	29.96	761.0	54.0	12.2	71.8*m*	5	8	6	2	.....	4	2	1	2	3817	6143	2	0.20	5.1
Boston	N. 42 21	W. 71 04	7.24 a.m.	142	43	29.84	757.9	29.99	761.7	67.3	19.6	75.9	.....	4	6	9	6	3	1	1	.....	5831	9384	5	2.07	52.6
Brownsville	N. 25 53	W. 97 26	5.38 a.m.	43	13	29.89	759.2	29.93	760.2	79.1	26.2	86.3	1	.....	.....	.....	16	6	5	.....	2	5711	9191	4	5.66	143.8
Buffalo	N. 42 53	W. 78 53	6.52 a.m.	696	212	29.20	741.7	29.94	760.5	61.1	16.2	80.8	.....	.....	2	10	7	8	.....	3	.....	6654	10708	6	5.46	138.7
Buford, Fort *c*	N. 48 00	W. 103 56	5.12 a.m.	1900	579	27.96	710.2	29.92	760 0	55.3	12.9	82.7	.....	2	6	5	2	2	4	4	2	5777	9297	4	0.97	24.6
Burlingtono	N. 44 29	W. 73 13	7.15 a.m.	268	82	29.69	754.1	29.98	761.5	62.0	16.7	76.4	3	.....	.....	12	8	.....	1	.....	1	2601	4186	6	3.29	83.6
Cairo	N. 37 00	W. 89 10	6.11 a.m.	377	115	29.62	752.3	30.01	762.2	71.5	21.9	81.8	3	4	4	8	5	3	1	2	.....	5289	8512	5	0.11	155.2
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.01	762.2	30.03	762.7	72.2	22.3	83.2	2	.....	1	8	5	6	1	6	1	7114	11449	5	6.14	156.0
Cape May *a*	N. 38 56	W. 74 58	7.08 a.m.	27	8	29.98	761.5	30.02	762.5	67.2	19.6	85.5	2	2	2	2	8	8	3	2	.....	8714	14022	5	5.59	142.0
Cape Mendocino	N. 40 26	W. 124 24	3.59 a.m.	637	194	29.31	744.5	29.99	761.7	52.0	11.1	84.6	6	20	.....	.....	.....	2	.....	.....	2	.....	.....	1	0.02	0.5
Cedar Keys	N. 29 08	W. 83 02	6.36 a.m.	22	7	30.05	763.3	30.07	763.8	79.9	26.6	81.0	1	2	8	3	6	1	2	7	.....	7010	11281	5	4.05	102.9
Charleston	N. 32 47	W. 79 56	6.48 a.m.	52	16	29.99	761.7	30.04	763.0	78.3	25.7	80.6	2	1	5	11	2	.....	1	5	3	5729	9220	5	2.88	73.2
Charlotte	N. 35 13	W. 80 51	6.44 a.m.	808	246	29.21	741.9	30.04	763.0	73.0	22.8	73.6	2	4	2	12	5	.....	1	4	.....	3901	6278	5	5.45	138.4
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.25	742.9	30.06	763.5	70.8	21.6	82.8	2	5	3	7	4	1	1	4	3	3784	6090	4	2.25	57.4
Cheyenne	N. 41 08	W. 104 48	5.09 a.m.	6089	1856	24.08	611.6	29.84	757.9	48.0	8.9	74.4	8	11	4	4	1	.....	.....	1	1	5440	8755	4	3.67	93.2
Chicago	N. 41 52	W. 87 38	6.18 a.m.	661	201	29.22	742.2	29.92	760.0	61.7	16.5	77.5	8	3	2	9	2	6	.....	.....	.....	5972	9611	5	5.61	142.5
Chincoteague	N. 37 55	W. 75 23	7.06 a.m.	18	5	30.00	762.0	30.02	762.5	69.7	20.9	88.4	3	1	2	.....	13	6	4	1	.....	5765	9278	4	1.26	32.0
Cincinnati	N. 39 06	W. 84 30	6.30 a.m.	620	189	29.34	745.2	29.99	761.7	64.2	17.9	75.5	1	1	7	2	5	7	2	3	2	3737	6014	6	3.61	91.7
Cleveland	N. 41 30	W. 81 42	6.41 a.m.	690	210	29.22	742.2	29.95	760.7	64.1	17.8	74.4	1	.....	7	4	8	9	.....	1	.....	5537	8911	6	3.77	95.8
Coleman City	N. 31 53	W. 99 18	5.31 a.m.	1709	521	28.18	715.8	29.93	760.2	69.9	21.1	81.8	.....	.....	.....	1	10	9	3	2	5	4656	7493	4	1.88	47.8
Columbus	N. 39 58	W. 83 00	6.36 a.m.	805	245	29.13	739.9	29.97	761.2	64.8	18.2	78.2	2	2	3	5	13	3	1	1	.....	4833	7778	5	4.25	107.9
Concho, Fort	N. 31 25	W. 100 24	5.26 a.m.	1900	579	28.04	712.2	29.91	759.7	71.3	21.8	81.5	.....	.....	2	.....	16	2	.....	5	5	7202	11590	5	1.52	38.6
Davenport	N. 41 30	W. 90 38	6.06 a.m.	615	187	29.27	743.4	29.91	759.7	63.4	17.4	82.2	2	5	8	3	5	2	2	1	.....	5984	9630	6	4.38	111.2
Davis, Fort	N. 30 38	W. 103 56	5.12 a.m.	4940	1506	25.20	640.1	29.81	757.2	66.2	19.0	59.6	1	.....	.....	8	2	3	.....	3	13	3878	6241	1	1.71	43.4
Dayton	N. 46 19	W. 117 56	4.16 a.m.	1660	506	28.28	718.3	30.02	762.5	53.1	11.7	66.5	1	.....	.....	18	4	1	.....	5	1	4646	7477	3	0.08	2.0
Deadwood	N. 44 23	W. 103 43	5.13 a.m.	4600	1402	25.38	644.6	29.82	757.4	52.4	11.3	70.3	.....	.....	.....	1	5	3	.....	13	8	2619	4215	2	5.26	133.6
Del. Breakwater	N. 38 48	W. 75 10	7.07 a.m.	20	6	30.00	762.0	30.02	762.5	67.2	19.6	89.8	4	2	2	7	4	5	4	2	.....	9617	15477	5	4.09	103.9
Denver	N. 39 45	W. 105 00	5.08 a.m.	5294	1614	24.78	629.4	29.82	757.4	56.4	13.6	67.0	3	1	1	.....	15	.....	.....	1	9	3864	6216	2	0.85	21.6
Des Moines	N. 41 35	W. 93 37	5.54 a.m.	849	259	29.06	738.1	29.94	760.5	61.2	16.2	84.1	8	5	2	2	3	1	3	5	1	4198	6756	6	7.75	222.2
Detroit	N. 42 20	W. 83 03	6.36 a.m.	661	201	29.22	742.2	29.92	760.0	63.8	17.7	82.1	2	3	3	8	3	3	2	.....	6	5273	8486	6	4.32	109.7
Dodge City	N. 37 45	W. 100 00	5.28 a.m.	2512	766	27.37	695.2	29.88	758.9	62.4	16.9	86.2	4	2	3	8	4	3	4	.....	2	9536	15347	4	4.31	109.5
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.22	742.2	29.91	759.7	61.8	16.6	76.1	3	4	6	6	3	4	1	3	.....	3833	6168	6	5.34	135.6
Duluth	N. 46 48	W. 92 06	6.00 a.m.	644	184	29.16	740.7	29.90	759 4	57.2	14.0	75.6	1	3	1	2	2	.....	.....	7	14	4083	6571	6	4.14	105.2
Eagle Pass	N. 28 44	W. 100 29	5.26 a.m.	780	238	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eagle Rock *o*	N. 43 32	W. 111 55	4.40 a.m.	4650	1415	25.26	641.6	29.85	758.2	44.7	7.1	70.0	6	.....	1	1	7	.....	.....	.....	.....	3968	6386	5	0.14	3.6
Eastport	N. 44 54	W. 66 59	7.40 a.m.	61	18	29.92	760.0	29.99	761.7	55.7	13.2	82.5	3	2	.....	3	12	.....	2	3	5	4243	6828	4	5.28	134.1
Elliott, Fort	N. 35 30	W. 100 21	5.27 a.m.	2650	808	27.22	691.4	29.89	759.2	60.5	15.8	65.5	4	1	.....	1	10	4	.....	4	6	8638	13901	3	1.66	42.2
El Paso	N. 31 47	W. 106 30	5.02 a.m.	3760	1146	26.24	666.5	29.83	757 7	71.1	21.7	43.1	.....	4	3	.....	.....	3	6	1	13	3760	6051	1	0.04	1.0
Erie	N. 42 07	W. 80 05	6.48 a.m.	681	208	29.23	742.4	29.95	760.7	65.2	18.4	75.7	.....	2	3	10	7	6	.....	1	1	4855	7813	6	3.73	94.7
Escanaba	N. 45 48	W. 87 05	6.20 a.m.	612	186	29.23	742.4	29.88	758.9	56.7	13.7	79.0	11	2	5	.....	7	3	.....	.....	2	6503	10465	4	5.43	137.9
Fredericksburg	N. 30 17	W. 98 52	5.32 a.m.	1700	518	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Galveston	N. 29 18	W. 94 47	5.49 a.m.	48	15	29.96	761.0	30.00	762.0	80.5	26.9	79.8	2	.....	1	5	16	4	.....	.....	2	5999	9654	7	1.04	26.4
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.25	742.9	29.90	759.4	60.4	15.8	80.9	4	3	5	4	6	3	2	2	1	6915	11128	7	9.24	134.7
Grant, Fort	N. 32 39	W. 109 57	4.48 a.m.	4856	1481	25.23*k*	740.8*k*	29.77*k*	756.1*k*	66.5	19.2	38.3	6	5	.....	.....	5	1	10	2	1	5295	8521	1	1.26	31.7
Hatteras	N. 35 15	W. 75 40	7.05 a.m.	19	6	30.02	762.5	30.04	763.0	74.4	23.6	87.1	1	1	4	11	1	5	2	5	.....	11323	16613	5	6.76	171.4
Helena	N. 46 34	W. 112 04	4.40 a.m.	4100	1250	25.78	654.8	29.90	759.4	54.1	12.3	67.0	.....	.....	3	22	.....	.....	1	1	3	4387	7060	3	1.74	44.2
Huron	N. 44 21	W. 98 09	5.35 a.m.	1305	398	28.55	725.2	29.89	759.2	57.5	14.2	77.5	3	5	3	1	5	9	2	2	.....	6739	10845	4	4.33	110.0
Indianapolis	N. 39 46	W. 86 10	6.23 a.m.	753	229	29.16	740.7	29.94	760.5	67.0	19.4	73.7	5	2	4	5	6	5	.....	2	1	3973	6394	6	4.59	116.6
Indianola	N. 28 32	W. 96 31	5.42 a.m.	26	8	29.93	760.2	29.96	761.0	78.9	26.1	89.6	.....	.....	.....	1	20	6	.....	1	2	7853	12638	4	1.72	43.7
Jacksboro	N. 33 12	W. 98 10	5.35 a.m.	1120	341	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jacksonville	N. 30 20	W. 81 39	6.42 a.m.	43	13	30.02	762.5	30.06	763.5	79.5	26.4	79.9	.....	2	1	11	7	1	5	2	1	5316	8555	4	7.05	179.1
Keogh, Fort *o*	N. 46 22	W. 105 56	5.04 a.m.	2372	723	27.44	697.0	29.87	758.7	48.8	9.3	74.3	1	4	5	.....	.....	1	.....	1	3	3582	5765	6	0.83	21.1
Keokuk	N. 40 22	W. 91 26	6.02 a.m.	618	188	29.28	743.7	29.92	760.0	65.7	18.7	79.4	3	3	6	4	3	6	2	1	2	5879	9461	5	5.88	149.4

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for June, 1883.																				Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.															
						Actual.		Reduced.					Directions.									Total Movement.						
				Feet.	Metrs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0-10	Inch.	Mill.
U. S.—Continued.	° ′	° ′																										
Key West	N. 24 34	W. 81 49	6.41 a.m.	20	6	30.02	762.5	30.04	763.0	83.3	28.5	74.5	.....	.....	.....	2	1	12	8	2	5	4597	7398	5	3.29	83.6
Kittyhawk	N. 36 00	W. 75 42	7.05 a.m.	22	7	30.04	763.0	30.06	763.5	72.9	22.7	85.3	2	.....	4	12	.....	5	.....	7	.....	9748	15688	5	6.57	166.9
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.04	737.6	30.05	763.3	67.9	19.9	86.6	5	2	1	10	1	1	5	4	1	3927	6320	5	2.99	75.9
La Crosse	N. 43 49	W. 91 15	6.03 a.m.	725	221	29.12	739.6	29.88	758.9	63.5	17.5	68.2	5	3	2	5	10	5	....	.....	.....	5727	9217	5	3.92	99.6
Leavenworth	N. 39 19	W. 94 57	5.48 a.m.	842	256	29.08	738.6	29.95	760.7	65.4	18.6	81.1	11	7	.....	.....	6	6	.....	.....	.....	5001	8048	4	10.84	275.3
Lewiston	N. 46 28	W. 117 05	4.20 a.m.	780	238	29.17	740.9	29.99	761.7	56.3	13.5	64.7	.....	1	1	1	1	3	7	2	14	1952	3141	3	0.01	0.3
Little Rock	N. 34 45	W. 92 06	6.00 a.m.	298	91	29.66	753.4	29.98	761.5	71.9	22.2	87.1	3	1	3	3	3	1	1	.....	15	2477	3986	4	3.01	76.5
Los Angeles	N. 34 03	W. 118 15	4.15 a.m.	371	113	29.56	750.8	29.95	760.7	59.7	15.4	88.0	.....	.....	7	....	2	2	2	13	4	3897	6272	4	0.03	0.8
Louisville	N. 38 15	W. 85 45	6.25 a.m.	530	162	29.41	747.0	29.96	761.0	69.6	20.9	80.2	3	.....	5	5	8	1	3	4	1	5289	8512	6	1.98	50.3
Lynchburg	N. 37 25	W. 79 09	6.52 a.m.	652	199	29.34	745.2	30.01	762.2	72.3	22.4	69.3	.....	3	2	9	5	1	.....	8	2	2283	3674	4	4.04	102.6
Mackinaw City	N. 45 47	W. 84 39	6.30 a.m.	605	184	29.24	742.7	29.88	758.9	57.2	14.0	76.3	4	5	5	3	5	2	3	2	1	6252	10061	7	3.58	90.9
Macon, Fort	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.03	762.7	30.04	763.0	74.0	23.3	89.2	4	2	6	9	4	1	2	2	.....	8648	13917	6	10.89	276.6
Maginnis Fort	N. 47 12	W. 109 10	4.51 a.m.	4340	1324	25.58	649.7	29.91	759.7	53.7	12.1	46.1	.....	4	11	3	2	4	1	5	.....	8170	13148	4	0.94	23.9
McKavett, Fort	N. 30 48	W. 100 07	5.28 a.m.	2240	683	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marquette	N. 46 34	W. 87 24	6.18 a.m.	673	205	29.17	740.9	29.89	759.2	56.1	13.4	71.3	6	9	8	4	.....	2	.....	.....	1	6608	10634	5	4.56	115.8
Memphis	N. 35 09	W. 90 03	6.08 a.m.	321	98	29.66	753.4	29.99	761.7	73.5	23.1	83.9	1	1	2	2	5	7	.....	2	10	2967	4775	4	4.92	125.0
Milwaukee	N. 43 02	W. 87 54	6.16 a.m.	697	212	29.17	740.9	29.91	759.7	59.9	15.5	79.1	6	3	9	3	3	1	2	3	.....	7851	12035	6	2.84	72.1
Missoula, Fort	N. 46 50	W. 114 07	4.32 a.m.	3140	957	26.79	680.5	30.05	763.3	50.7	10.4	67.0	2	2	4	3	.....	2	.....	2	.....	1920	3090	7	0.75	19.0
Mobile	N. 30 41	W. 88 02	6.16 a.m.	41	12	30.00	762.0	30.04	763.0	76.9	24.9	87.0	8	.....	4	7	3	2	4	2	.....	3598	5790	5	9.43	239.5
Montgomery	N. 32 23	W. 86 18	6.23 a.m.	219	66	29.81	757.2	30.04	763.0	74.5	23.6	84.3	.....	4	5	4	2	7	2	.....	6	3356	5404	5	5.02	127.5
Moorhead	N. 46 52	W. 96 44	5.41 a.m.	923	281	28.91	734.3	29.88	758.9	53.1	11.7	77.5	6	4	4	2	11	2	.....	1	.....	6586	10599	4	2.32	58.9
Morgantown	N. 39 40	W. 79 50	6.49 a.m.	963	293	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mt. Washington	N. 44 16	W. 71 18	7.23 a.m.	6279	1914	23.86	606.0	29.98	761.5	45.0	7.2	89.8	.....	11	4	5	5	2	2	1	.....	24570	39541	4	11.30	287.0
Nashville	N. 36 10	W. 86 47	6.21 a.m.	507	154	29.44	747.8	30.00	762.0	71.0	21.7	83.9	2	1	8	5	1	7	5	1	.....	4317	6947	5	3.79	96.3
New Haven	N. 41 18	W. 72 56	7.16 a.m.	107	32	29.89	759.2	30.00	762.0	65.7	18.7	79.3	3	2	1	11	5	2	3	2	1	4607	7414	4	1.83	46.5
New London	N. 41 21	W. 72 05	7.20 a.m.	47	14	29.98	761.5	30.04	763.0	67.0	19.4	77.9	4	.....	2	5	6	4	2	3	4	4081	6568	6	3.30	83.8
New Orleans	N. 29 58	W. 90 04	6.08 a.m.	52	16	29.97	761.2	30.02	762.5	78.2	25.7	84.8	.....	2	5	3	7	4	6	1	2	4186	6737	5	12.05	306.1
Newport	N. 41 29	W. 71 19	7.23 a.m.	44	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	29.85	758.2	30.02	762.5	67.3	19.6	80.4	3	2	1	5	5	3	3	3	5	4641	7469	4	4.00	101.6
Norfolk	N. 36 51	W. 76 17	7.03 a.m.	30	9	29.99	761.7	30.02	762.5	75.1	23.9	76.4	1	2	1	12	1	4	4	3	2	5224	8407	4	6.52	165.6
North Platte b	N. 41 08	W. 100 45	5.25 a.m.	2841	866	27.06	687.3	29.86	758.4	59.6	15.3	83.5	1	4	6	.....	.....	5	5	1	6	7316	11774	4	7.49	190.2
Olympia	N. 47 03	W. 122 53	3.57 a.m.	36	11	30.10	764.5	30.14	765.5	47.2	8.4	74.7	8	1	2	6	4	.....	.....	.....	9	2016	3245	5	0.21	5.3
Omaha	N. 41 16	W. 95 56	5.44 a.m.	1113	339	28.81	731.8	29.95	760.7	63.2	17.3	80.9	7	5	2	1	2	3	.....	2	8	2255	3629	6	12.70	322.6
Ogglaamie	N. 71 17	W. 156 40	1.41 a.m.	17	5	29.93	760.2	29.94	760.5	29.2	—1.6	98.7	6	1	1	1	1	3	4	12	1	8631	13890	9	0.31	7.9
Oswego	N. 43 29	W. 76 35	7.02 a.m.	304	93	29.62	752.3	29.91	760.5	63.3	17.4	78.8	1	1	6	5	11	5	..	1	.....	5258	8462	6	4.58	116.3
Palestine	N. 31 45	W. 95 40	5.45 a.m.	523	162	29.48	748.8	30.02	762.5	74.0	23.3	87.7	.....	1	.....	2	12	3	3	1	8	4267	6867	5	6.33	160.8
Pensacola	N. 30 25	W. 87 13	6.19 a.m.	30	9	30.01	762.2	30.04	763.0	77.8	25.4	86.2	3	2	4	8	4	5	2	2	.....	5755	9262	5	9.36	237.7
Philadelphia	N. 39 57	W. 75 09	7.07 a.m.	92	28	29.93	760.2	30.03	762.7	69.7	20.9	91.4	3	2	5	4	6	4	3	3	.....	4917	7913	4	5.91	150.1
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	17.98	450.7	29.80	756.9	28.0	—2.2	80.6	7	5	1	13	.....	1	.....	3	.....	14915	24003	2	1.76	44.7
Pioche *o*	N. 37 56	W. 114 26	4.30 a.m.	6110	1862	24.05	610.9	29.85	758.2	54.8	12.7	43.1	6	5	.....	1	3	.....	.....	.....	.....	3210	5176	3	0.48	12.2
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	762	232	29.19	741.4	29.98	761.5	64.9	18.3	81.5	2	2	5	4	8	1	...	2	6	3815	6140	5	4.73	120.1
Poplar River *e*	N. 48 08	W. 105 10	5.07 a.m.	2030	619	27.79	705.9	29.89	759.2	.....	.....	.....	1	3	1	15	1	2	.....	2	.....	.....	.....	1	0.43	10.9
Port Eads	N. 29 09	W. 89 15	6.11 a.m.	7	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Huron	N. 43 00	W. 82 26	6.38 a.m.	633	193	29.21	741.9	29.88	758.9	60.1	15.6	83.3	4	1	4	6	9	4	1	1	.....	6284	10113	4	5.71	145.0
Portland, Maine	N. 43 39	W. 70 15	7.27 a.m.	45	14	29.93	760.2	29.98	761.5	63.6	17.6	74.0	6	.....	5	5	6	4	2	1	1	5103	8212	4	2.94	74.7
Portland, Oreg	N. 45 32	W. 122 43	3.57 a.m.	67	20	30.02	762.5	30.09	764.3	54.1	12.3	79.5	6	5	1	2	3	.....	.....	1	12	3800	6125	5	0.08	2.0
Portsmouth	N. 35 02	W. 76 04	7.04 a.m.	40	12	.....	.....	.....	.....	74.9	23.8	84.3	.....	2	3	15	3	1	.....	6	.....	9582	15420	6	11.09	281.7
Prescott	N. 34 33	W. 112 28	4.38 a.m.	5340	1628	24.78	629.4	29.80	756.9	52.4	11.3	44.1	...	.....	3	14	11	.....	.....	2	2	5503	8856	0	0.09	2.3
Provincetown	N. 42 03	W. 70 11	7.27 a.m.	26	8	29.98	761.5	30.01	762.2	65.5	18.6	79.4	.....	2	8	8	6	3	2	1	.....	6299	10138	3	1.39	35.3
Punta Rassa *o*	N. 26 29	W. 82 01	6.40 a.m.	13	4	30.03	762.7	30.04	763.0	70.7	21.8	85.9	.....	.....	.....	.....	1	3	8	3	.....	3213	5171	4	7.25	184.2
Red Bluff	N. 40 10	W. 122 15	3.59 a.m.	350	106	29.59	751.6	29.94	760.5	67.1	19.5	55.8	9	4	.....	.....	9	2	4	.....	2	5478	8816	1	inap.	inap.
Rochester *o*	N. 43 08	W. 77 42	6.57 a.m.	621	189	29.34	745.2	29.99	761.7	60.9	16.1	80.6	.....	3	3	7	2	.....	.....	.....	.....	4388	7062	6	1.04	26.4
Roseburg	N. 43 13	W. 123 20	3.55 a.m.	511	156	29.55	750.6	30.10	764.5	51.5	10.8	78.6	6	2	1	.....	.....	.....	2	4	15	2990	4812	4	0.01	0.3
Sacramento	N. 38 35	W. 121 30	4.02 a.m.	65	20	29.85	758.2	29.92	760.0	61.5	16.4	75.5	3	3	.....	2	11	11	.....	.....	.....	5928	9540	1	0	0
Saint Louis	N. 38 38	W. 90 12	6.07 a.m.	568	173	29.39	746.5	29.98	761.5	66.7	19.3	87.5	2	5	8	2	5	6	2	.....	.....	7222	11623	6	5.04	128.0
Saint Michael, Ft	N. 63 48	W. 162 00	1.20 a.m.	30	9	29.86	758.4	29.89	759.2	43.8	6.6	87.4	5	6	1	6	4	.....	2	5	1	7266	11693	8	1.84	46.7
Saint Paul	N. 44 58	W. 93 03	5.56 a.m.	811	247	29.04	737.6	29.88	758.9	59.4	15.2	81.1	6	3	3	2	3	.....	3	2	8	4665	7507	6	7.04	178.8
Saint Vincent	N. 48 56	W. 97 14	5.39 a.m.	804	245	29.00	736.6	29.85	758.2	52.8	11.0	88.0	3	6	1	5	7	7	.....	1	.....	5424	8725	4	1.03	26.2
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.62	650.7	29.84	757.9	62.7	17.1	39.6	2	8	2	1	3	5	.....	1	8	4168	6708	3	0.33	8.4
San Antonio *o*	N. 29 25	W. 98 25	5.34 a.m.	673	205	29.24	742.7	29.92	760.0	75.0	23.9	84.4	.....	.....	.....	.....	3	5	5	1	1	2397	3857	4	0.36	8.9
San Diego	N. 32 43	W. 117 10	4.19 a.m.	67	20	29.84	757.9	29.91	759.7	62.2	16.8	85.3	9	6	3	3	4	2	.....	3	.....	4792	7712	5	0.08	2.0
Sandusky	N. 41 25	W. 82 40	6.37 a.m.	639	195	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sandy Hook	N. 40 28	W. 74 00	7.12 a.m.	28	8	29.98	761.5	30.01	762.2	67.2	19.6	83.1	.....	4	4	10	4	4	3	1	.....	9342	15931	4	4.94	125.5
Sanford	N. 43 05	W. 89 24	6.10 a.m.	949	289	30.00	762.0	.....	.....	80.0	26.7	82.9	.....	.....	3	8	6	5	2	4	2	3485	5608	6	8.57	217.7
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	29.91	759.7	29.98	761.5	56.4	13.6	84.5	2	2	9	15	1	.....	.....	1	.....	9158	14738	7	0.01	0.3
Santa Fé *o*	N. 35 41	W. 105 57	5.04 a.m.	7106	2166	23.25	590.5	29.76	755.9	54.0	12.2	43.7	.....	.....	.....	2	4	1	4	3	1	3571	5747	1	inap.	inap.
Savannah	N. 32 05	W. 81 05	6.44 a.m.	87	26	29.97	761.2	30.06	763.5	78.3	25.7	78.0	3	1	10	8	1	4	1	2	.....	4967	7993	4	5.93	150.6
Shaw, Fort	N. 47 31	W. 111 48	4.41 a.m.	3550	1082	26.36	669.5	29.93	760.2	49.3	9.6	71.2	1	5	15	8	.....	.....	.....	1	.....	5469	8801	4	2.38	60.5
Shreveport	N. 32 30	W. 93 40	5.53 a.m.	227	69	29.75	755.0	29.98	761.5	74.0	23.3	86.2	1	2	4	4	9	3	4	.....	3	2869	4617	5	5.70	144.8
Sill, Fort *a*	N. 34 40	W. 98 23	5.34 a.m.	1200	366	28.74	730.0	29.94	760.5	68.8	20.4	84.7	8	.....	2	3	11	2	2	1	1	8011	12892	5	5.55	141.0
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.57	758.7	29.93	760.2	47.0	8.3	76.7	.....	4	8	3	.....	.....	11	3	1	5552	8935	8	4.13	104.9
Smith, Fort	N. 35 22	W. 94 24	5.50 a.m.	449	137	29.52	749.8	29.98	761.5	69.8	21.0	87.7	2	1	1	.....	2	1	10	1	12	2919	4698	5	4.12	104.0
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.00	762.0	30.04	763.0	75.5	24.2	82.3	1	3	8	9	1	4	1	3	.....	7815	12577	6	6.95	176.5
Spokane Falls	N. 47 40	W. 117 25	4.18 a.m.	1910?	582?	28.01	711.4	30.05	763.3	52.9	11.6	75.5	4	1	2	10	4	.....	.....	2	7	4144	6669	2	0.60	15.2
Springfield, Ill	N. 39 48	W. 89 39	6.10 a.m.	644	196	29.28	743.7	29.95	760.7	64.9	18.3	81.9	3	4	5	5	5	2	3	2	1	5355	8618	5	8.40	213.4
Springfield, Mo	N. 37 12	W. 93 18	5.55 a.m.	1351	412	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Starkville *o*	N. 33 35	W. 88 49	6.13 a.m.	455	123	29.57	751.1	30.04	763.0	72.1	22.3	81.4	2	.....	.....	1	4	2	2	2	2	2170	3492	6	3.75	95.2
Stevenson, Fort	N. 47 35	W. 101 28	5.22 a.m.	1750	534	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stockton, Fort	N. 30 53	W. 102 53	5.16 a.m.	3010	917	26.96	684.8	29.88	758.9	68.8	20.4	82.4	1	1	.....	8	7	6	1	.....	6	7643	12300	3	1.11	28.2
Thatcher's Island	N. 42 38	W. 70 34	7.26 a.m.	48	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Thomas, Camp	N. 33 04	W. 110 02	4.48 a.m.	2710	826	27.16*k*	689.9*k*	29.79*k*	759.7*k*	63.8	17.7	47.3	1	1	.....	.....	.....	1	2	.....	25	.....	.....	1	0	0
Toledo	N. 41 40	W. 83 34	6.34 a.m.	651	198	29.23	742.4	29.91	759.7	66.6	19.2	74.2	2	1	6	6	9	2	2	2	.....	6034	9711	6	2.99	75.9
Tucson *o*	N. 32 14	W. 110 53	4.45 a.m.	2309	722	27.47	697.7	29.77	756.1	64.2	17.9	42.5	.....	.....	.....	.....	6	4	3	.....	2	1399	2251	0	0	0
Unalaska	N. 53 53	W. 166 32	1.02 a.m.	13	4	29.93	760.2	29.95	760.7	43.5	6.4	80.4	2	7	3	11	3	3	.....	.....	1	7270	11700	9	1.48	37.6
Verde, Fort	N. 34 33	W. 111 52	4.40 a.m.	?	?	.....	.....	.....	.....	62.2	16.8	33.0	1	11	1	3	1	11	1	1	.....	.....	.....	0	0.04	1.0
Vicksburg	N. 32 22	W. 90 53	6.04 a.m.	244	74	29.78	756.4	30.03	762.7	74.0	23.3	87.1	3	.....	1	2	5	9	3	4	3	3662	5893	5	4.96	126.0
Visalia *o*	N. 36 20	W. 119 17	4.11 a.m.	348	106	29.52	749.8	29.89	759.2	63.7	17.6	68.1	.....	3	3	1	1	4	.....	.....	3	1367	2200	1	0	0
Washakie, Fort *o*	N. 42 59	W. 108 43	4.53 a.m.	5880	1702	24.48	621.8	29.86	758.4	42.4	5.8	85.1	.....	1	1	5	.....	.....	4	2	2	2191	3526	6	1.07	27.2
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	29.92	760.0	30.02	762.5	70.3	21.3	78.6	1	4	1	7	5	2	2	3	5	2914	4689	4	8.55	217.2
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	26.05	661.7	29.82	757.4	58.2	14.0	72.4	2	1	10	3	3	3	6	1	1	6432	10351	3	2.03	66.8
Williamsport *o*	N. 41 15	W. 77 03	7.00 a.m.	561	171	29.46	748.3	30.06	763.5	64.3	17.9	76.0	1	3	1	.....	.....	1	2	1	6	1546	2488	4	1.76	44.7
Wilmington	N. 34 14	W. 77 57	6.56 a.m.	52	16	29.99	761.7	30.04	763.0	74.9	23.8	84.1	.....	2	7	9	2	1	2	4	3	5043	8115	5	10.84	275.3
Winnemucca *o*	N. 40 59	W. 117 43	4.17 a.m.	4327	1319	25.64	651.2	29.90	759.4	48.5	9.2	59.7	.....	1	.....	5	.....	.....	.....	8	1	2780	4485	1	inap.	inap.
Yankton	N. 42 54	W. 97 28	5.38 a.m.	1228	374	28.65	727.7	29.93	760.2	60.9	16.1	77.1	4	6	3	3	3	3	2	3	3	6465	10404	4	4.40	111.8
Yuma	N. 32 45	W. 114 36	4.30 a.m.	141	43	29.61	752.1	29.75	755.6	73.2	22.9	72.4	1	2	4	.....	1	8	1	2	11	3783	6088	0	0	0
Sub-Series.																												
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	.....	.....	30.04	763.0	80.8	27.1	72.3	10	2	.....	.....	.....	2	4	1	11	3800	6115	6	2.26	57.4
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.06	763.5	30.06	763.5	77.5	25.3	87	.....	.....	.....	.....	1	21	8	.....	.....	.....	.....	6	12.80	325.1
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.40	746.7	29.96	761.0	77.3	25.2	91.9	1	.....	.....	.....	2	1	.....	1	25	.....	.....	9	9.96	253.0
Rivas *e*	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	77.1	25.1	91.6	1	2	.....	.....	3	.....	2	19	.....	.....	.....	5	8.07	205.0
St. Paul, Alaska	N. 57 47	W. 152 21	1.59 a.m.	54	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Thomas	N. 18 20	W. 64 56	7.48 a.m.	131	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Santiago de Cuba	N. 19 55	W. 75 50	70.4 a.m.	21	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	30.04	763.0	30.10	764.5	46.4	8.0	94.9	2	4	7	10	5	.....	.....	2	.....	7910	12730	3	3.02	76.7

OCEAN SQUARE DATA FOR JUNE, 1883.

Location of Centre of each Square.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
	Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 12.5° W. 22.5°	30.04	763.0	78.7	25.9	1							26		3	2.6
12.5 27.5	30.06	763.5	78.9	26.1	1					1		25		3	2.6
12.5 32.5	30.08	764.0	78.8	26.0							1	18		11	3.0
12.5 37.5	30.10	764.5	78.0	25.6	2						1	12		15	3.0
12.5 52.5	30.10	764.5	78.6	25.9						5	14	2		9	2.7
17.5 22.5	30.08	764.0	76.7	24.8	1							26		3	3.1
17.5 27.5	30.11	764.8	76.6	24.8	1				2		1	23		3	3.0
17.5 32.5	30.14	765.5	77.0	25.0				1			2	19		8	2.9
17.5 37.5	30.16	766.1	77.1	25.1	3	1				1	4	16		5	3.1
17.5 42.5	30.17	766.3	77.2	25.1	1					1	4	12		12	3.1
17.5 47.5	30.18	766.6	77.3	25.2							10	7		13	3.1
17.5 52.5	30.16	766.1	77.9	25.5	1				3	3	12	4		7	2.8
17.5 57.5	30.12	765.0	79.3	26.3				2		3	11	12		2	2.7
22.5 22.5	30.14	765.5	74.2	23.4	1				2		2	22		3	2.8
22.5 27.5	30.16	766.1	74.4	23.6				2	1	1		22		4	2.5
22.5 32.5	30.18	766.6	74.9	23.8		3		3	1		3	18		2	2.8
22.5 37.5	30.20	767.1	75.2	24.0	2	5				2	7	12		2	2.2
22.5 42.5	30.22	767.6	75.5	24.2	1	4			1	3	5	12		4	2.9
22.5 47.5	30.22	767.6	76.1	24.5	1	4			3	2	5	11		4	2.9
22.5 52.5	30.22	767.6	77.1	25.1	1					4	10	6		6	2.8
22.5 57.5	30.15	765.8	78.3	25.7				2	3	8	11	6		2	2.8
22.5 62.5	30.15	765.8	78.9	26.1		1		2	1	16	8	2			2.5
22.5 67.5	30.12	765.0	80.2	26.8		2			6	13	8	1			2.3
22.5 72.5	30.10	764.5	81.6	27.6	2	2			3	14	8	1			2.6
27.5 22.5	30.17	766.3	72.0	22.2	3				2	2	1	18		4	2.4
27.5 27.5	30.17	766.3	72.6	22.6	4			2	3	3	1	14		3	2.5
27.5 32.5	30.15	765.8	73.2	22.9	2	1	2	8			3	13		1	2.8
27.5 37.5	30.21	767.3	73.6	23.1	2	5	4	1		1	7	9		1	2.5
27.5 42.5	30.23	767.8	73.9	23.3	2	5	3		3	1	3	11		2	2.7
27.5 47.5	30.24	768.1	74.3	23.5	1	4	2	1	3	3	4	9		3	2.6
27.5 52.5	30.24	768.1	75.3	24.1	2	5	1	1	3	5	9	1		3	2.7
27.5 57.5	30.22	767.6	76.1	24.5	5	2		1	4	6	10	1		1	2.6
27.5 62.5	30.18	766.6	77.3	25.2		1		1	11	8	5	3	1		2.4
27.5 67.5	30.16	766.1	78.3	25.7	1	1		1	12	12	1	2			2.5
27.5 72.5	30.13	765.3	80.1	26.7	1	2		2	10	10	5				2.6
27.5 77.5	30.10	764.5	81.1	27.3		3		5	7	10	5				1.7
32.5 12.5	30.13	765.3	69.9	21.1	6	3		5	1		1	13		1	2.1
32.5 17.5	30.19	766.8	69.0	20.6	3	2	1	5	1	4	2	12			1.3
32.5 22.5	30.19	766.8	69.5	20.8	2	6		1	5	5		8		3	2.6
32.5 27.5	30.16	766.1	70.5	21.4	2	6		1	7	2	2	7		3	2.4
32.5 32.5	30.15	765.8	71.4	21.9	6	4		8	4	2	1	4		1	2.7
32.5 37.5	30.16	766.1	74.4	23.6	4	7	6	1	1	3	2	5		1	2.5
32.5 42.5	30.20	767.1	72.4	22.4	4	12	2	1	2	2		6		1	2.7
32.5 47.5	30.20	767.1	72.5	22.5	6	11	1	2	4	4		2			2.5
32.5 52.5	30.22	767.6	73.3	22.9	2	10		2	5	4	5	2			2.7
32.5 57.5	30.22	767.6	73.8	23.2	2	5	4	2	7	6	2	2			2.3
32.5 62.5	30.18	766.6	74.8	23.8	1	3	1	3	15	4	1	2			2.4
32.5 67.5	30.15	765.8	76.0	24.4	1	2	1	10	10	3	2	1			2.8
32.5 72.5	30.11	764.8	77.4	25.2	3		1	9	8	7		2			2.8
32.5 77.5	30.06	763.5	77.7	25.4	4	3	1	9	5	4		4			2.1
37.5 12.5	30.12	765.0	67.3	19.6	12	7		6				5			2.6
37.5 17.5	30.16	766.1	66.4	19.1	3	9	3	4	1	6	1	3			2.7
37.5 22.5	30.17	766.3	67.1	19.5	4	7		4	3	8	2	2			2.7
37.5 27.5	30.13	765.3	67.6	19.8	4	6	1	2	7	7	2	1			2.2
37.5 32.5	30.09	764.3	68.4	20.2	7	4		4	6	7		2			3.0
37.5 37.5	30.09	764.3	69.7	20.9	9	6	4	3	2	2	3	1			2.8
37.5 42.5	30.13	765.3	69.9	21.1	8	7	4	2	6	1		2			2.8
37.5 47.5	30.16	766.1	69.7	20.9	9	5	5	3	6	2					2.9
37.5 52.5	30.18	766.6	70.0	21.1	6	5	2	4	7	1		5			3.1
37.5 57.5	30.17	766.3	70.7	21.5	4	2	4	7	8	1		4			3.3
37.5 62.5	30.13	765.3	71.1	21.7		1	2	10	9	1	3	4			3.5
37.5 67.5	30.10	764.5	70.4	21.3	3	1	1	8	10	2	2	3			3.2
37.5 72.5	30.05	763.3	70.1	21.2	3			7	8	7	1	4			2.7
42.5 12.5	30.08	764.0	64.6	18.1	9	7	2	5	1		1	5			2.9
42.5 17.5	30.10	764.5	63.8	17.7	5	9	2	5		4	1	4			3.0
42.5 22.5	30.11	764.8	63.8	17.7	5	10	2	3	2	5	2	1			3.1
42.5 27.5	30.10	764.5	63.7	17.6	4	7	3	2	3	10	1				3.2
42.5 32.5	30.07	763.8	64.2	17.9	3	8	1	2	5	8	3				3.9
42.5 37.5	30.06	763.5	65.4	18.6	3	6	2	3	5	6	3	2			3.7
42.5 42.5	30.07	763.8	64.7	18.2	6	8	2	5	3	3	1	2			3.5
42.5 47.5	30.09	764.3	60.7	15.9	6	3	3	7	5	1	1	4			3.3
42.5 52.5	30.08	764.0	59.6	15.3	6	1	2	9	4	2	1	4	1		3.3
42.5 57.5	30.09	764.3	61.4	16.3	2	4	2	11	6	1		4			3.2
42.5 62.5	30.06	763.5	61.6	16.4	1	3	3	10	5	4	1	3			2.8
42.5 67.5	30.02	762.5	61.1	16.2	1	3	4	7	9	6					2.4
47.5 12.5	30.01	762.2	61.3	16.3	6	4	5	5	2		3	5			3.3
47.5 17.5	30.04	763.0	60.8	16.0	5	6	4	3	3	2	3	4			3.2
47.5 22.5	30.05	763.3	59.7	15.4	7	4	4	2	3	5	1	4			3.5
47.5 27.5	30.07	763.8	58.9	14.9	6	5	4	2	4	6	3				3.7
47.5 32.5	30.06	763.5	59.1	15.1	4	5	3	4	5	7	2				3.9
47.5 37.5	30.04	763.0	58.5	14.7	3	4	3	3	9	1	5	2			3.4
47.5 42.5	30.03	762.7	55.7	13.2	4	3	3	5	6	3	4	2			3.1
47.5 47.5	30.04	763.0	50.1	10.1	4	3	3	6	2	5	5	2			2.7
52.5 12.5	29.98	761.5	58.4	14.7	9	2	6	1	5	3	3	1			3.3
52.5 17.5	30.01	762.2	56.9	13.8	6	10	3	3	2	4	2				3.3
52.5 22.5	30.03	762.7	55.7	13.2	6	8	2	2	8	1		3			3.3
52.5 27.5	30.03	762.7	53.8	12.1	7	7	2	2	6	5		1			3.1
52.5 32.5	30.01	762.2	53.2	11.8	3	6	2	6	6	3	1	3			3.2
52.5 37.5	30.03	762.7	51.5	10.8	5	5	2	7	7	3			1		2.5
52.5 42.5	29.99	761.7	49.3	9.6	1	8	3	6	5	4		3			2.7
52.5 47.5	29.97	761.2			3	4	5	6	6	4	1		1		2.5
57.5 12.5	29.94	760.5	53.8	12.1	7	6	2	2	3	3	3	4			3.0
57.5 17.5	29.96	761.0	52.5	11.4	8	7	4	1	1	6	2	1			3.0
57.5 22.5	29.97	761.2	51.1	10.6	5	4	6	4	1	4	1	5			3.0
57.5 27.5	29.93	760.2	49.9	9.9	9	1	5	7	2	1	3	2			2.9
57.5 32.5	29.94	760.5	48.7*j*	9.3*j*	2	3	2	10	5	2		3		3	2.8
57.5 37.5	29.95*e*	760.7*e*			2	4	1	6	9	2	1	1		4	2.9
57.5 42.5	29.94	760.5			4	3		5	10	3	1	1		3	2.5
57.5 47.5	29.91	759.7			3	3	1	6	7	2	1	1		6	2.4

UPERNAVIK, GREENLAND, N. 72° 47′, W. 56° 00′.

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Barometer. Corrected for instrumental error and temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative Humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles perhour	Wind. Velocity. Metrs pr sec.	Wind. Force 0–10	Clouds. Amount. Upper. 0–10	Clouds. Amount. Lower. 0–10	Clouds. Direction. Up'er From	Clouds. Direction. Lo'er From	Rainfall or melted snow in past 24 hours. Inch.	Rainfall or melted snow in past 24 hours. Mill.	WEATHER.
1883.																		
May 1	30.02	762.4	30.06	763.6	27.7	— 2.4	87	calm.			0		6					
2	29.74	755.4	29.79	756.6	29.8	— 1.2	88	se.			6		8					snowing.
3	29.85	758.1	29.89	759.3	28.4	— 2.0	92	e.			4		10					snowing.
4	30.03	762.7	30.06	763.9	27.7	— 2.4	87	se.			2		6					
5	30.20	767.1	30.25	768.3	27.0	— 2.8	96	se.			2		7					
6	30.40	772.1	30.45	773.3	25.5	— 3.6	69	e.			2		8					
7	30.48	774.1	30.52	775.3	29.8	— 1.2	80	calm.			0		8					
8	30.39	771.8	30.43	773.0	39.2	4.0	97	e.			4		0					
9	30.07	763.7	30.11	764.9	34.5	1.4	64	calm.			0		0					
10	29.98	761.4	30.02	762.6	22.6	— 5.2	100	sw.			2		10					
11	30.06	763.4	30.10	764.6	20.5	— 6.4	100	calm.			0		10					foggy.
12	30.09	764.2	30.13	765.4	21.9	— 5.6	98	sw.			2		10					foggy.
13	30.11	764.8	30.16	766.0	23.5	— 4.7	88	calm.			0		10					
14	30.00	761.9	30.04	763.1	24.4	— 4.2	91	calm.			0		10					foggy.
15	29.39	746.6	29.44	747.8	25.9	— 3.4	91	ne.			2		0					
16	29.56	750.9	29.61	752.1	31.6	— 0.2	92	calm.			0		10					
17	29.90	759.5	29.95	760.7	31.3	— 0.4	100	sw.			2		10					snowing.
18	30.13	765.3	30.18	766.5	28.9	— 1.7	90	calm.			0		10					snowing.
19	29.93	760.1	29.97	761.3	29.8	— 1.2	100	ne.			2		8					
20	29.82	757.5	29.87	758.7	28.8	— 1.8	78	ne.			2		0					
21	29.67	753.5	29.71	754.7	25.2	— 3.8	87	n.			2		10					
22	29.15	740.4	29.20	741.6	28.0	— 2.2	75	ne.			2		0					
23	29.59	751.6	29.64	752.8	29.8	— 1.2	73	sw.			6		8					
24	29.77	756.2	29.82	757.4	31.6	— 0.2	66	sw.			4		10					
25	29.71	754.7	29.76	755.9	31.3	— 0.4	85	calm.			0		8					
26	29.63	752.5	29.67	753.7	30.6	— 0.8	92	calm.			0		10					snowing.
27	29.62	752.3	29.67	753.5	25.3	— 3.7	89	ne.			2		10					
28	29.59	751.6	29.64	752.8	29.1	— 1.6	80	sw.			4		6					
29	29.62	752.3	29.67	753.5	30.7	— 0.7	83	sw.			2		9					
30	29.61	752.2	29.66	753.4	32.7	0.4	89	calm.			0		10					snowing.
31	29.94	760.5	29.99	761.7	33.4	0.8	90	sw.			2		9					snowing.
Mean	29.87	758.7	29.92	759.9	28.6	— 1.9	87				1.8		7.5					
June 1	29.89	759.1	29.93	760.3	32.0	0.0	92	sw.			4		10					
2	29.76	755.8	29.80	757.0	41.0	5.0	84	se.			6		6					
3	29.60	751.9	29.65	753.1	34.5	1.4	80	sw.			4		10					snowing.
4	29.57	751.0	29.61	752.2	33.4	0.8	92	calm.			0		10					snowing.
5	29.57	751.0	29.61	752.2	33.1	0.6	85	calm.			0		8					snowing.
6	29.76	755.9	29.81	757.1	30.6	— 0.8	88	n.			2		8					
7	29.83	757.6	29.87	758.8	32.4	0.2	78	calm.			0		10					
8	29.58	751.2	29.62	752.4	36.0	2.2	66	calm.			0		6					
9	29.25	742.9	29.30	744.1	39.6	4.2	100	ne.			2		10					
10	29.50	749.4	29.55	750.6	30.2	— 1.0	96	sw.			7		10					
11	29.66	753.3	29.71	754.5	33.4	0.8	82	sw.			4		10					
12	29.73	755.2	29.78	756.4	34.3	1.3	82	calm.			0		6					
13	30.27	768.8	30.32	770.0	35.2	1.8	75	calm.			0		0					
14	29.72	754.8	29.76	756.0	45.1	7.3	65	e.			4		0					
15	29.86	758.4	29.91	759.6	41.0	5.0	84	calm.			0		4					
16	29.64	752.8	29.69	754.0	38.8	3.8	58	sse.			7		9					
17	29.87	758.7	29.92	759.9	41.5	5.3	69	e.			2		3					
18	29.84	757.8	29.88	759.0	38.8	3.8	80	calm.			0		8					
19	29.92	759.9	29.97	761.1	34.3	1.3	83	calm.			0		9					
20	29.95	760.6	29.99	761.8	35.2	1.8	90	sw.			2		6					
21	29.82	757.4	29.87	758.6	40.3	4.6	74	se.			4		9					
22	30.02	762.5	30.07	763.7	36.3	2.4	80	sw.			2		10					raining.
23	29.91	759.6	29.95	760.8	41.5	5.3	53	ne.			2		9					misty.
24	29.43	747.5	29.48	748.7	34.9	1.6	89	sw.			7		9					snowing.
25	29.71	754.5	29.75	755.7	35.2	1.8	75	sw.			6		8					
26	29.80	757.0	29.85	758.2	33.4	0.8	90	calm.			0		10					foggy.
27	29.86	758.4	29.91	759.6	29.1	— 1.6	88	calm.			0		8					misty.
28	29.77	756.2	29.82	757.4	37.4	3.0	79	n.			2		4					
29	29.54	750.4	29.59	751.6	41.5	5.3	74	n.			2		0					
30	29.69	754.1	29.74	755.3	54.1	12.3	73	e.			2		0					
Mean	29.74	755.5	29.79	756.7	36.9	2.7	80				2.4		7.0					

NOTE.—The above observations, taken at 7 a. m., Washington time, were received too late for publication in the DAILY BULLETIN, and are given here in full.

REVIEW.

INTERNATIONAL METEOROLOGY.

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

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

For the month of June, 1883, the area of least pressure is indicated by the isobar for 29.4 (746.7), which occupies the Punjab, in British India; the lowest barometric mean reported was 29.35 (745.5), at Lahore. Over that part of Hindostan lying between N. 22° and 30° the mean atmospheric pressure ranged from 29.4 (746.7) to 29.5 (749.3); in southern India it varied from 29.52 (749.8) to 29.7 (754.4). Over the rest of Asia the mean pressure ranged from 29.7 (754.4) to 29.85 (758.2). In the North American continent the mean pressure was least in the southwestern part of the United States, where it ranged from 29.75 (755.6) to 29.8 (756.9). From the Rocky mountain regions northeastward to the mouth of the Saint Lawrence river the mean atmospheric pressure ranged from 29.85 (758.2) to 29.9 (759.4); from western Texas northeastward to the province of Quebec, Canada, it varied from 29.9 (759.4) to 30.0 (762.0), and from eastern Texas northeastward along the Atlantic coast to the New England states and Nova Scotia it was above 30.0 (762.0). In Europe the mean pressure was greatest in western France and the Iberian peninsula, where it exceeded 30.0 (762.0); in northern and central Europe it ranged from 29.95 (660.7) to 30.0 (762.0), and in Russia it was below 29.9 (759.4).

The areas of barometric maxima are indicated by the isobaric lines for 30.2 (767.1) and 30.1 (764.5), respectively. The first of these occupies that part of the Atlantic ocean between N. 20° and 35° and W. 35° and 60°; at the centre of this area the pressure is about 30.25 (768.3). South of latitude 40° North, and from the West Indies eastward to W. 10°, the pressure is above 30.1 (764.5). The second area of high pressure, above referred to, is shown over Oregon, Washington Territory, and the southern part of Vancouver Island, the means in those districts being above 30.1 (764.5).

Compared with the chart for the preceding month (May) there has been a slight increase of pressure on the north Pacific coast and on the Atlantic coast, while a very slight decrease has occurred in other parts of the United States. In Canada the changes have been slight and unimportant. Over the north Atlantic ocean the following changes have occurred: between N. 40° and 20° and from W. 30° westward to W. 55° there has a slight decrease, while an increase is shown over the regions east of the thirtieth and west of the fifty-fifth meridians. Between N. 40° and 50° the pressure has decreased; north of the last-mentioned parallel it has increased slightly. In Europe there has been a slight increase of pressure, the changes being most marked in the Scandinavian peninsula, where it amounted to about .1 inch. Throughout Asia there has been a general decrease of pressure.

Compared with the corresponding month in previous years the mean atmospheric pressure in the United States was slightly below the normal in the lake region. On the Atlantic coast and in the western part of the country it was slightly above normal, and in other districts it was about normal. In northern Europe the mean pressure was above the normal, while in the southern and central districts it was normal or slightly below. In British India it was .02 inch less than the six years' mean.

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

Countries.	Mean pressure.			Mean temperature.		
	June mean of 6 (1877-'82) years.	June, 1883.	Departure.	June mean of 6 (1877-'82) years.	June, 1883.	Departure.
				°	°	°
Algeria	30.06	30.01	− 0.05	82.5	76.7	− 5.8
Austria	29.92	29.88	− 0.04	71.2	71.7	+ 0.5
British Isles	29.90	29.92	+ 0.02	60.4	61.7	+ 1.3
Denmark	29.88	29.96	+ 0.08	61.2	62.1	+ 0.9
France	30.00	29.99	− 0.01	69.9	68.8	− 1.1
Germany	29.96	29.96	normal	67.8	69.3	+ 1.5
India	29.54	29.52	− 0.02	88.6	88.9	+ 0.3
Italy	29.98	29.94	− 0.04	76.4	74.4	− 2.0
Norway	29.81	29.94	+ 0.13	59.8	60.0	+ 0.2
Portugal	30.07	30.05	− 0.02	72.7	70.4	− 2.3
Russia	29.85	29.88	+ 0.03	70.0	71.7	+ 1.7
Spain	30.02	30.03	+ 0.01	75.0	69.2	− 5.8
Sweden	29.84	29.96	+ 0.12	59.6	64.8	+ 5.2

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

Stations.	Mean pressure.			Mean temperature.		
	June mean of 6 (1877-'82) years.	June, 1883.	Departure.	June mean of 6 (1877-'82) years.	June, 1883.	Departure.
				°	°	°
Gibraltar	30.04	30.05	+ 0.01	74.7	71.9	− 2.8
Malta, Mediterranean Sea	30.00	29.97	− 0.03	77.6	75.3	− 2.3
Sandwick Manse, Orkney Islands	29.89	29.95	+ 0.06	53.7	53.0	− 0.7
Bridgetown, Barbadoes	30.02	30.06	+ 0.04	82.5	82.3	− 0.2
Cape Town, Cape Good Hope	30.16	.....	.....	60.6	.....	.....
Fort Napier, Natal, South Africa	30.04	30.01	− 0.03	68.7	71.1	+ 2.4
Freetown, Sierra Leone	29.93	29.86	− 0.07	84.7	82.7	− 2.0
Mauritius, Indian Ocean	30.15	30.09	− 0.06	73.1	73.9	+ 0.8
Melbourne, New South Wales	30.11	30.06	− 0.05	47.6	52.6	+ 5.0
Nassau, Bahamas	30.06	30.13	+ 0.07	82.8	84.4	+ 1.6
Godthaab, Greenland	29.82	29.85	+ 0.03	41.1	37.9	− 3.2
Stykkisholm, Iceland	29.81	29.90	+ 0.09	47.9	47.3	− 0.6
Thorshavn, Färöe Islands	29.86	29.94	+ 0.08	50.7	51.3	+ 0.6
Zi-Ka-Wei, China	29.80	29.82	+ 0.02	71.0	72.9	+ 1.9
Athens, Greece*	29.93	29.89	− 0.04	83.2	81.9	− 1.3
Cagliari, Sardinia, Italy	29.98	29.95	− 0.03	78.5	74.1	− 4.4
Tokei, Japan	29.86	29.91	+ 0.05	67.7	66.0	− 1.7
Angra, Azores*	30.18	30.12	− 0.06	66.9	64.4	− 2.5
Funchal, Madeira Islands	30.19	30.19	normal	70.8	68.7	− 2.1
Ponta Delgado, Azores	30.23	30.15	− 0.08	70.0	67.8	− 2.2
Archangel, Russia	29.78	29.98	+ 0.20	56.5	68.5	+12.0
Tiflis, Russia	29.84	29.79	− 0.05	78.8	79.3	+ 0.5
Astrakhan, Russia	29.84	29.80	− 0.04	80.3	79.7	− 0.6
Ekaterinburg, Russia	29.70	29.84	+ 0.14	64.1	65.7	+ 1.6
Tashkend, Toorkistan, Asia	29.75	29.63	− 0.12	84.6	89.8	+ 5.2
Barnaul, Siberia, Asia	29.71	29.71	normal	68.6	63.9	− 4.7
Yeniseisk, Siberia, Asia	.....	29.78	.....	.....	54.7	.....
Pekin, China	29.68	29.73	+ 0.05	77.1	79.7	+ 2.6
Nikolaevsk on the Amoor, Asia	.....	.....	.....	51.6	52.0	+ 0.4
San Juan de Puerto Rico, W. I.	30.05	30.08	+ 0.03	82.1	80.1	− 2.0
Beirut, Turkey in Asia	29.83	29.85	+ 0.02	82.6	82.6	normal
Mexico, Mexico	30.06	.....	.....	57.5	.....	.....
Havana, Cuba, W. I.	30.04	30.04	normal	81.8	79.1	− 2.7
Paramaribo, D. Guiana, S. A.	30.06	30.06	normal	79.9	77.5	− 2.4
York Factory, B. A.	29.97	30.10	+ 0.13	46.9	46.4	− 0.5

* Means for five years only.

In the United States the mean temperature of the air was above the normal in the Atlantic coast districts and in the region west of the Rocky mountains; elsewhere it was below the normal. The departures were slight in all districts. In Europe the mean temperature was below the normal in the southern peninsulas, and was somewhat above the normal in the northern districts. In Hindostan the highest mean, 105°.5 Fahr. (40°.8 Cent.), was reported from Lahore, and the lowest, 72°.2 Fahr. (22°.3 Cent.), from Belgaum.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Cairo, Egypt	92.1	33.4	*Ooglaamie, Alaska*	29.2	− 1.6
Petro-Alexandrovsk, Turkestan, Asia	91.4	33.0	Upernavik, Greenland	36.9	2.7
Tashkend, Turkestan, Asia	89.8	32.1	Godthaab, Greenland	37.9	3.3
Sarmarkand, Turkestan, Asia	85.6	29.8	Behring's Island (N. 55° 10′, E. 166° 30′)	39.4	4.1
Nassau, West Indies	84.4	29.1	Jacobshavn, Greenland	40.8	4.9

In the United States east of the hundredth meridian the

winds were southerly, southwesterly, and westerly; west of the above-mentioned meridian they were westerly and northwesterly. Over the north Atlantic ocean between N. 20° and 40° and west of 50° west longitude the winds were southerly and southeasterly; east of W. 50° they were mostly northeasterly. North of the fortieth parallel the winds were southwesterly, southerly, and southeasterly, except near the European coast, where they were northerly. In Europe the winds were northerly and northeasterly in the northern districts, and westerly and southwesterly in the southern portions.

The rainfall during June, 1883, was below the average in the western part of the United States and in New England, Florida, and Tennessee. In all other districts of the United States it was above the average, the excess being greatest in Missouri and Nebraska. In northwestern Europe the rainfall was less than the average, but in the southern and eastern districts it exceeded the average; heavy floods occurred in the provinces of Silesia, Bohemia, and Moravia.

GENERAL REMARKS.

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

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

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

BOUNDARIES OF DISTRICTS.

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

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

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

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

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

INTERNATIONAL CHARTS ACCOMPANYING DAILY BULLETIN AND MONTHLY SUMMARY

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

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

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

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

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

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

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

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

AUSTRALIAN SERIES (furnished by co-operation of R. L. J. Ellery, Director of the Observatory at Melbourne, N. S. W.).—At Melbourne the conversions are published as given in the originals. The movement of the air is indicated by velocity in miles per hour. Adelaide, furnished by co-operation of Charles Todd, C. M. G., F. R. A. S. The observations are taken at 9 p. m., local time.

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

BRITISH SERIES (furnished by co-operation of the Meteorological Council, London, Robert H. Scott, Esq., F. R. S., Secretary, and respective observers).—In general the originals do not give rainfall or distinction between upper and lower clouds. Relative humidity, except for Bradford and Silloth Rectory, is not given on the originals, but is computed from hygrometrical observations. At Cardington, Oxford, and Sandwick Manse the barometers are given as read off. At Greenwich the movement of the air is indicated by pounds pressure per square foot. At the following stations rainfall is measured at local time: Bradford, 9 a. m., and Aberdeen, 10 a. m. The wind-direction is given to 32 points and weather by the Beaufort notation. At Bradford, no observations are taken on Sunday, except the rainfall, and in the monthly summary the letter designating a certain number of days missing applies to all the data except rainfall.

CANADIAN SERIES (furnished by co-operation of Charles Carpmael, A. M., F. R. A. S., Director of the Magnetic Observatory at Toronto and Superintendent of the Meteorological Office of the Dominion of Canada, and respective observers).—The originals give the barometer reduced to sea-level in English inches and the temperature in Fahrenheit. Meteorological reports from stations marked with a * are telegraphed daily to the office of the Chief Signal Officer of the Army. At St. John's, N. F., the barometer appears read about .10 inch too high.

CAPE COLONY SERIES (furnished by co-operation of the Meteorological Commission of Cape Colony, Cape Town, and respective observers).—At Cape Saint Francis Lighthouse, the original gives barometer reduced to freezing, but not to sea-level. The kind of clouds is given, but no distinction is made between upper and lower. Weather in general terms.

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

ured at the moment of simultaneous observation. At Tchang-Kia-Tchouang the original gives barometer in millimetres reduced to sea-level, temperature in Centigrade, clouds on scale of 0–10, no distinction between upper and lower.

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

EGYPTIAN SERIES (Furnished by the co-operation of Albert Ismalun, Director of the Laboratoire Khédivial du Caire).—Original gives barometer reduced to zero, but not to sea-level, temperature in Centigrade. The velocity is the mean for past 24 hours. Rainfall in millimetres.

FRENCH SERIES (furnished by co-operation of the Central Meteorological Office of France, Professor E. Mascart, Director, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Mont Louis and Perpignan. In general the rainfall is measured at 9 a. m., local time. The direction of upper and lower clouds is given, but no distinction is made as to kind. The degree of cloudiness is given on a scale of 0 to 4 at Clermont-Ferrand and Puy de Dome, while at other stations the scale of 0 to 10 is employed, or general weather terms, from which the amount of cloudiness is inferred. The weather is given in general terms, except occasionally by the Vienna symbols at Mont Louis and Perpignan. At Besançon the elevation of barometer cistern changes to 843 feet 257 metres.

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

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

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

ITALIAN SERIES (by authority of the Minister of Agriculture, Industry, and Commerce—furnished by co-operation of Professor P. Tacchini, Director of the Central Meteorological Office at Rome, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by velocity in kilometres per hour, or by force on a scale of 0 to 4, as at Mondovi, Florence, and Cagliari. No distinction is made between upper and lower clouds, and the amount is given on a scale of 0 to 10. When snow has fallen at Stelvio and Valdobbia, it is not certain whether the amount given refers to melted or unmelted.

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

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

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

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

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

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

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

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

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

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

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

TURKISH SERIES (furnished by co-operation of A. Coumbary, Effendi, Director of the Central Observatory at Constantinople, and of F. Nimr, B. A., Director of the Lee Observatory at Beirut).—The originals give the barometer in millimetres reduced to sea-level. The temperature is given in Centigrade. The movement of the air is indicated by force on a scale of 0 to 7 for Valona, and on a scale of 0 to 12 for Beirut. At Constantinople the velocity is given in meters per second. The kind of clouds is not given, but the amount is indicated on a scale of 0 to 10, except at Valona, at which station it is inferred from the general weather terms. At Samakov, the barometer is reduced to freezing, but not to sea-level; temperature in Fahrenheit. The kind of clouds is given, also the distinction between upper and lower.

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

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

BRITISH NAVAL SERIES (furnished by co-operation of the Meteorological Council, London, Robert H. Scott, Esq., F. R. S., Secretary).—The originals give the barometer as read off. The wind-direction is given to 32 points. The movement of the air is indicated by force on a scale of 0 to 12. The distinction between upper and lower clouds is made as to direction, but not as to amount. The height of the sea-disturbance is given on a scale of 0 to 9, and the weather by the Beaufort notation. The direction of movement

of wind, clouds, and sea is compass direction, corrected only for deviation caused by the iron in the ship, while the correction for magnetic variation is applied at this office. The humidity is not given, but is computed from the hygrometrical observations.

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

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

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

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

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

ERRATA.

MONTHLY SUMMARY, April and May, 1883, page 7, Unalaska, in place of latitude, longitude and elevation as given, read N. 53° 53′, W. 166° 32′, 1.02 a. m., 13 feet 4 metres.

DAILY BULLETIN, June 11th, 1883, page 8, District No. 3, s. s. "Zealandia," latitude N. 37° 48′, should read N. 36° 48′.

15th, page 5, Palestine, Texas, reduced barometer 760.0 mm., should read 763.0.

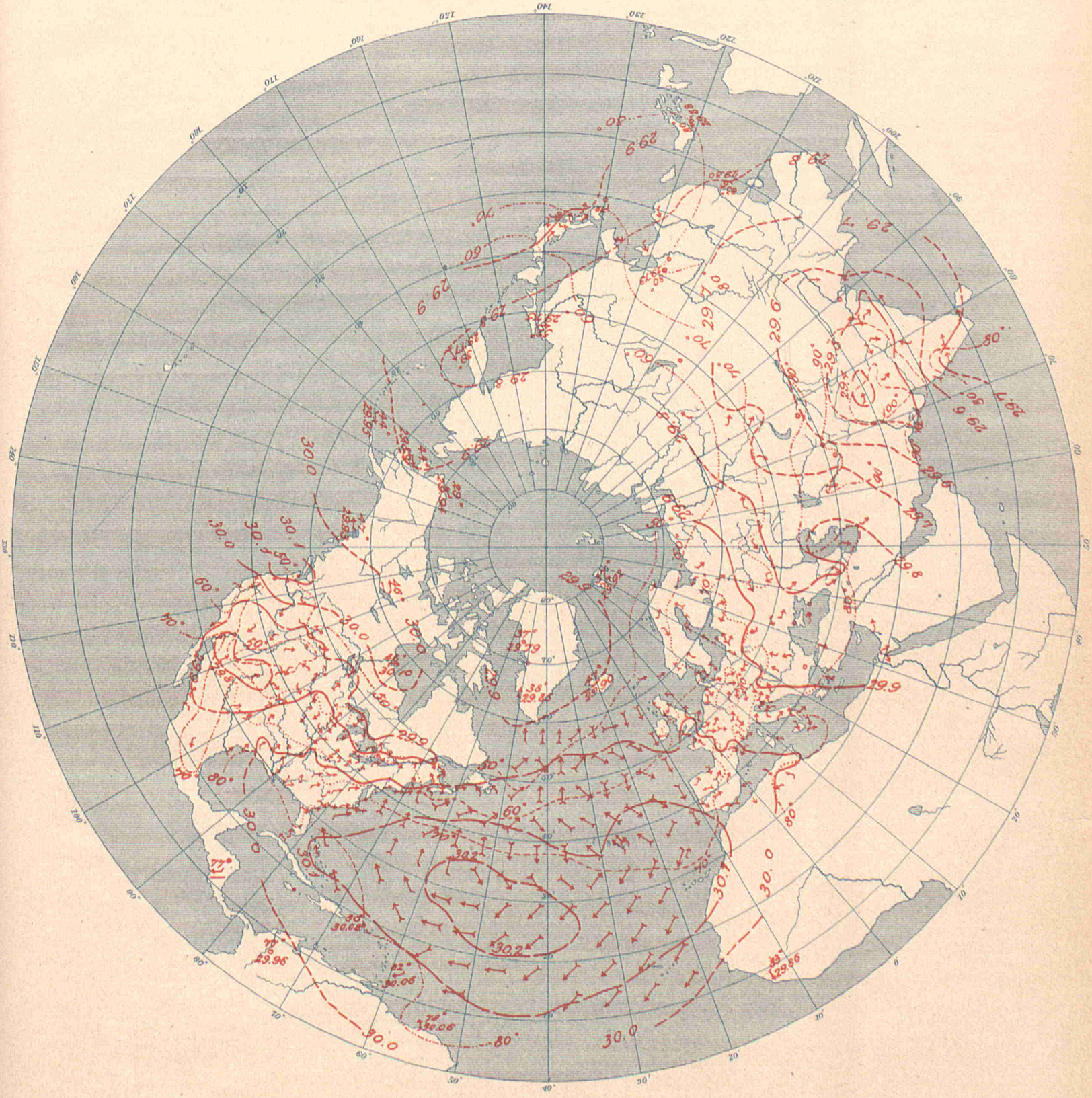
17th, page 8, District No. 3, s. s. "Granada," latitude N. 34° 35′, should read N. 24° 35′.

18th, page 6, District No. 1, the barometric readings of the following vessels on this date are evidently wrong, and should be omitted, s. s. "Lord Clive," "British Princess,', "Bohemia," "Mentmore," "Belgenland," "Naderland," "State of Nevada" and "Oregon."

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

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



UNITED STATES OF AMERICA.

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