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OF

INTERNATIONAL METEOROLOGY

FOR THE MONTH OF JANUARY, 1884.

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WASHINGTON, D. C.:
FEBRUARY, 1885.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 1, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.12	765.1	58.6	14.8	72	ne.			1		0			0	0	clear	Roziere.
Algiers			30.18	766.5	59.0	15.0	58	w.			4		4			0	0	cloudy	Aubert.
La Galle			30.26	768.5	59.0	15.0	68	s.			4		2			0	0	fair	Fonfrede.
Tunis			30.28	769.2	58.3	14.6	55	sw.			2		2			0	0	fair	Delord.
Tebessa					52.2	11.2	85	n.			3		2			0	0	fair	Hans.
Geriville					53.6	12.0	54	nw.			1		0			0	0	clear	Forfert.
Laghouat			30.28	769.0	57.6	14.2	67	ne.			1		0			0	0	clear	Abraham.
Biskra			30.27	768.9	55.0	12.8	49	calm			0		2			0	0	fair	Gouson.
Australian.																			
Adelaide, South Australia			30.24	768.1	58.9	14.9	61	s.	8	3.6		1 cs				0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.91	759.7	30.10	764.5	59	15.0	58	sw.			2		5		sw.	0	0	fine	Com. I. Short, R.N.
Melbourne, Victoria	30.14	765.5	30.23	767.8	57.5	14.2	65	s.	8	3.6			5			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	30.04	763.1	30.63	778.1	31.6	— 0.2	53	ne.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.84	757.8	30.67	779.0	21.7	— 5.7	98	ene.	1.3	0.6			0			0	0		Dr. Wierzbiski
Eperies	29.67	753.7	30.62	777.7	29.7	— 1.3	76	calm			0	2 cs				0	0		Julius Mikolik.
Gratz	29.30	744.2	30.64	778.3	28.8	— 1.8	73	nw.			2		0			0	0		Andreas Rospini.
Hermannstadt	29.10	739.1	30.66	778.7	24.1	— 4.4	91	e.			1		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.98	736.1	30.40	772.2	31.5	— 0.3	79	ene.			2		0			0	0	clear	The Staff.
Lemberg	29.60	751.9	30.67	779.0	27.0	— 2.8	50	e.			1		0			0	0		Dr. T. Stanecki.
Pola	30.38	771.7	30.50	774.7	42.4	5.8	52	ne.			3		4			0	0		I. R. Hydrographic Office.
Szathmar	30.09	764.3	30.60	777.1	24.8	— 4.0	84	e.			3		0			0	0		Joseph Midliuszky, S. J
Szegedin	30.30	769.7	30.60	777.3	33.4	0.8	75	nw.			1		0			0	0		Karl Stancel.
Trieste	30.45	773.3	30.54	775.8	38.5	3.6	44	e.			4		0			0	0		Royal Academy.
Vienna	29.86	758.5	30.63	778.1	28.9	— 1.7	82	se.			1		0			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon					28.4	— 2.0	100	ne.			1-2		0			0	0		
Brussels	30.14	765.5	30.35	770.9	33.8	1.0	83	ese.			1		0			0	0		
Furnes																			
Maeseyck	30.23	767.7	30.35	770.9	34.5	1.4	65	e.			1		10			0	0		
British.																			
Aberdeen	30.37	771.4	30.47	773.9	38.0	3.3	76	se.	13	5.8			9			0.040	1.0	overcast	W. Boswell.
Bidston, Liverpool Obs'y			30.31	769.9	35.8	2.1	83	e.	3	1.3			10					overcast	John Hartnup.
Bolton, Sharples	29.77	756.1	30.32	770.1	34.6	1.4	88	ese.	12	5.4			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.92	760.0	30.32	770.1	47.6	8.7	88	ne.			3		9			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	29.99	761.7	30.02	762.5	80	26.7	74	ne.			2		3					blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	30.22	767.6	30.34	770.6	36.4	2.4	85	e.			0.6		10					overcast	John McLaren.
Chatham, School M. E.	30.12	765.0	30.30	769.6	33.0	0.6	89	e.			1		10					gloomy	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.92	760.0	30.16	766.1	40.9	4.9	72	ese.			5		10					overcast	The Staff.
Fort Napier, Natal	27.50	698.5	29.81	757.2	75.8	24.3	62	nw.			1		9					overcast	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	81	27.2	91	n.			1		2					blue sky	J. W. Smith.
Galway, Queen's College	30.18	766.6	30.22	767.6	38	3.3	42	e.			2		8			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.16	766.1	30.22	767.6	58.0	14.4	97	e.			4		10					raining	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	30.12	765.0	30.30	769.6	35.0	1.7	87	ese.			2		10					overcast	The Staff.
Guernsey	29.89	759.2	30.20	767.1	38.0	3.3	90	ese.			1		10					overcast	A. Collenette, F.R.M.S.
Kew, Observatory	30.26	768.6	30.30	769.6	35.6	2.0	82	ese.	12	5.4			10					misty	The Staff.
Leicester, Museum	30.06	763.5	30.33	770.4	33.0	0.6	89	se.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.24	768.1	30.31	769.9	56.2	13.4	76	sw			2		4			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.14	765.5	72.5	22.5	88	se.			0		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.07	763.8	30.30	769.6	34.1	1.2	90	ne.			2		10					overcast	The Staff.
Plymouth	30.09	764.3	30.16	766.1	37.4	3.0	95	e.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.33	770.4	30.43	772.9	39.1	3.9	95						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.33	770.4	30.40	772.1	42.4	5.8	87	n			2		10					raining	W. H. Lyne.
Sheffield	30.04	763.0	30.33	770.4	35.4	1.9	90	e.			1		10			0.02	0.5	overcast	W. F. Cooper.
Silloth Rectory	30.33	770.4	30.36	771.1	39.0	3.9	87	e.			1		8			0.020	0.5	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.33	770.4	36.9	2.7	81	e.	12	5.4			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					35.4	1.9	88	e.			1.0		10					overcast	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.12	765.0	30.14	765.5	41.6	5.3	74	e.	26	11.6			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.97	761.2	30.37	771.4	56.1	13.4	66	e.	1.9	0.8		5 ck	4 k	w.		0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.44	773.2	30.48	774.2	15.0	— 9.4		calm	0	0		10 cs	0	s.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.37	771.4	30.42	772.7	19	— 7.2	86	ne.	4	1.8			10 n			0.025	0.6	light snow	H. J. Cundall, C. E.
Chatham, N. B*	30.41	772.4	30.48	774.2	12	—11.1	91	ne.	2	0.9			10 s		ne.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.99	761.7	30.20	767.1	14.0	—10.0	100	ne.					10 n			0.100	2.5	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.43	772.9	30.48	774.2	5.0	—15.0		w.			1		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.45	773.4	30.47	773.9	6	—14.4	76	s.	3	1.3			10 k		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.83	757.7	30.85	783.6	—27	—32.8	64	nw.	6	2.7		0	0			0	0	clear	James Stewart.
Fredericton, N. B	30.38	771.6	30.46	773.7	13.1	—10.5	94	calm	0	0			10 s			0	0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B	30.30	769.6	30.36	771.1	27	— 2.8	88	e.	17	7.6			10 ks		e.	0.25	6.3	cloudy	J. Chipman Seeley
Granton, Ontario	29.16	740.7	30.35	770.9	18.4	— 7.6	94	e.	2	0.9			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.23	767.8	30.37	771.4	20	— 6.7	87	n.	8	3.6		2 cs	0			0.010	0.3	fair	A. Allison.
Hamilton, Ontario	29.81	757.2	30.25	768.3	18.2	— 7.7	84	ne.			1		10 n			0.500	12.7	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.90	759.4	30.26	768.6	17	— 8.3	83	n.	4	1.8			10 n		n.	0.01	0.3	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.31	769.9	30.35	770.9	24.2	— 4.3	90	w.			3	5 k	0	n.		0	0	d. clouds	C. H. Rigby.
London, Ontario	29.13	739.9	30.10	764.5	19.8	— 6.8	92	ne.			2		10 ks			0	0	ov r ast	E. B. Reed.
Medicine Hat, N. W. T	28.15	715.0	30.87	784.1	—22	—30.0	100	w.	1	0.4		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	28.55	725.2	30.90	784.8	—29	—33.9	100	nw.	8	3.6		0	hz.			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	29.99	761.7	30.21	767.3	13	—10.6	96	n.	8	3.6			10 n			0.13	3.3	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	30.02	762.5	30.26	768.6	13.9	—10.1	92	ne.					10 s			inap.	inap.	snowing	A. McGill, M. A.
Parry Sound, Ontario*	29.61	752.1	30.39	771.9	2	—16.7	72	n.	8	3.6		0	0			0.08	2.0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.49	749.0	30.29	769.4	15.1	— 9.4	76	ne.			1	2 c	0	e		0.03	0.8	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.83	757.7	30.65	778.5	—10	—23.3	78	nw.	7	3.1		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.52	749.8	30.26	768.6	21	— 6.1	100	ne.	2	0.9			10 n			inap.	inap.	cloudy	H. Morgan.
Port Stanley, Ontario	29.57	751.1	30.26	768.6	22	— 5.6	87	ne.	6	2.7			10 n		ne.	inap.	inap.	cloudy	M. Payne.
Qu Appelle, N. W. T	28.09	713.5	30.80	782.3	—24	—31.1		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.93	760.2	30.32	770.1	11	—11.7	91	n.	20	8.9			10 s		n.	0.20	5.1	light snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.85	758.2	30.34	770.6	6	—14.4	91	w.	10	4.5			10 s		sw.	0.10	2.5	light snow	W. H. McIntyre.
St. Andrews, N. B	30.30	769.6	30.36	771.1	20	— 6.7	92	ne; e	7	3.1			10 n			0.05	1.3	cloudy	
St. John, N. B	30.26	768.6	30.42	772.7	21.0	— 6.1	95	ne.	8	3.6			10 n			0.030	0.8	overcast	G. Hutchinson.
Saint John's, N. F	29.81	757.2	30.08	764.0	25	— 3.9	100	ne.			1		10 n			0.20	5.1	light snow	J. Higgins.
St. Pierre, N. F																			The Commandant.
Saugeen, Ontario*	29.55	750.6	30.33	770.4	15	— 9.4	96	ne.	7	3.1			10 s			0.01	0.3	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
Stratford, Ontario																			W. Mc Bride, M. A.
Sydney, C. B*	30.31	769.9	30.37	771.4	22	— 5.6	76	n.	5	2.2			10 s		n.	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.89	759.2	30.30	769.6	21	— 6.1	84	ne.	6	2.7			10 n			0.01	0.3	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.06	738.1	30.21	767.3	18.6	— 7.4	87	nw.	8	3.6			10 ks			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.27	768.8	30.34	770.6	20	— 6.7	73	e.	10	4.5		8 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	29.81	757.2	29.84	757.9	70.0	21.1	90	sw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.97	761.2			67.0	19.4	67	nw.				0	8 k			c	0		Capt. R. Gardner Warton
Springbok Fontein	27.92	709.2			84	28.9	35									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.80	756.9	29.88	758.9	59.9	15.5	89	n.			4	10	0					cloudy	Samuel Redolez.
Iquique	29.94	760.4	29.97	761.1	71.6	22.0	69	sw.			2							misty	Rafael Moreno.
Niebla	29.55	750.6	29.65	753.2	65.8	18.8	59	e.			4	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.85	758.2	29.94	760.4	65.5	18.6	73	nw.			1	6 c	c	nw.	nw.			fair	Manuel Tobar.
Punta Corona	29.89	759.2	30.08	763.9				w.			2	0	0			0	0	clear	Francisco Alvarado.
Valparaiso	29.80	756.9	29.94	760.4	62.8	17.1	79	n.				10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.22	767.5	30.24	768.1	40.1	4.5	77	ese.	6.3	2.8			10			0	0		M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.52	775.2	30.57	776.4	31.6	— 0.2	89	se.	9	4			9						Oversergent Fischer.
Fanöe	30.50	774.6	30.52	775.1	28.0	— 2.2	100	ese.			4		10					hazy	Overloerer Lauridsen.
Godthaab, Greenland	30.26	768.5	30.30	769.6	— 2.2	—19.0	94	ne.			4		1						S. Kleinschmidt.
Stykkisholm, Iceland	29.97	761.1	30.01	762.2	32.4	0.2	94	nw.			2		10						A. O. Thorlacius.
Thorshavn	30.34	770.5	30.36	771.1	43.5	6.4	79	ssw.	13	6			6						Overloerer Bergh.
Vestervig	30.41	772.4	30.50	774.8	27.9	— 2.3	89	ssw.			2		10					foggy	Loerer Oesterrool.
EGYPTIAN.																			
Cairo	30.09	764.2			59.0	15		n.	0.4	0.2		0	4 k			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.52	749.7	30.18	766.6	51.1	10.6	89	s.			1		nk		se.	0	0		M. Labroue, Director.
Alençon, Normal School	29.89	759.1	30.44	773.1	48.2	9	95	ne.			1		5 n		sw.	0	0	cloudy	M Nicot, Director.
Arras, Normal School			30.34	770.5	32.0	0	91	e.			1		5	e.	se.	0	0	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.25	768.4	30.33	770.4	46.4	8	75	se.			3		8		s.	0	0	very cloudy	M. Giraud, Direc.
Bar-sur-Seine	29.71	754.7	30.30	769.5	39.7	4.3	82	sse.			1		8		s.	0	0	very cloudy	M. Saillard, Directo
Beauvais, Normal School	30.00	761.9	30.28	769.0	36.7	2.6	86	ese.			1		10		se.	0.04	1.	covered	M. Frère Eugène Martè.
Besançon, Normal School	29.28	743.6	30.20	767.1	39.2	4	83	n.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.82	757.4	30.09	764.2	50.2	10.1	72	se.			1		1			0.012	0.3	almost clear	M. Rayet, Director.
Bourges, Normal School	29.62	752.3	30.18	766.6	45.7	7.6	86	e.			1	ck		e.		0.102	2.6		M. Sauvageot, Director.
Brest, Naval Observatory	29.91	759.6	30.15	765.8	38.8	3.8	83	ene.			2		1		ene.	inap.	inap.		M. de Kermarée, Dir.
Caen, Normal School	30.10	764.5	30.26	768.5	36.0	2.2	96	e.			1–2		10			0.091	2.3	covered	M. Berson, Director
Châlons-sur-Marne, N.Sch	29.98	761.6	30.32	770.1	36.7	2.6	79	sse.			2		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.80	756.9	30.32	770.1	35.6	2	67	ne.			1		0			0	0	clear	M. Noël, Director.
Clermont-Ferrand Obs'y	28.82	732.0	30.21	767.3	45.7	7.6	72	s.			2	5 c			s.	0	0		M. Allnard, Director.
Cluny, Normal School	29.44	747.8	30.32	770.2	37.6	3.1	83	s.			1		9	se.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.48	748.7	30.38	771.6	32.4	0.2	87	e.			1		5 n	e.	e.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.76	705.2	30.40	772.1	40.3	4.6	65	se.			3		10 n			0.08	2.		M. Jarach, Director.
Gréasque, du Rhone	29.19	741.5	30.36	771.2	42.4	5.8	75	e.			4		10		se.	0	0	covered	M. Kina, Director.
Grenoble, Normal School	29.56	750.8	30.36	771.2	37.4	3	83	s.			1		10			0	0	covered	M. Ablard, Director
Guéret, Normal School	28.55	725.2	30.15	765.8	47.8	8.8	63	se.			1		cn		ne.	0.08	2.		M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.50	749.3	30.07	763.8	51.4	10.8	55	ne.			1		8			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.05	763.2	30.15	765.8	39.2	4.0	62	ne.			2		10		ne.	0	0	covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.24	742.7	30.34	770.7	37.4	3.0	96	ne.			1		10		ssw.	0.091	2.3	misty	M. André, Director.
Mans, Normal School	29.88	758.9	30.20	767.1	40.1	4.5		ne.			1		n		ne.	0.295	7.5		M. Richard, Director.
Marseille, Observatory	30.02	762.4	30.29	769.4	48.2	9.0	61	ese.			6		10		se.	0	0		M. Stephan, Director.
Montlouis	24.88	631.9	29.72	754.9	34.7	1.5	76	sw.	16.8	7.5			7	w.		0	0		M Cave for Dr. Fines.
Montpellier, Normal School	30.12	765.1	30.24	768.0	47.5	8.6	94	ese.			6		10		se.	0.654	16.6	raining.	M. Galzin, Director.
Nancy, Normal School	29.65	753.0	30.47	773.8	43.5	6.4	82	ne.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	29.99	761.8	30.15	765.9	40.1	4.5	88	ene.			0–1		10			0	0		M. Larocque, Director.
Perpignan, Observatory	30.08	763.9	30.19	766.8	55.4	13.0	64	s.	11.2	5.0			9		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.14	537.0			21.6	— 5.8		w.			2		5		nw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.24	742.6	30.34	770.7	42.8	6	65	s.			1		ku		s.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.17	639.3			29.3	— 1.5	100	s.			4		5			0.079	2.0		M. Allnard.
Rochefort, Naval Obs'y	30.10	764.4	30.13	765.2	47.5	8.6	78	ne.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.00	762.0	30.22	767.6	43.9	6.6	79	e.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.01	711.4	30.21	767.3	43.4	6.4		se.			6		5		nw.	0	0	fair	M. Seger, Director.
Rouen, Normal School	30.20	767.1	30.25	768.3	37.0	2.8	93	e.			1		10	e.		0	0	covered	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	30.08	764.1	30.25	768.3	40.8	4.9	81	ese.			1		8		sse.	0	0	very cloudy.	M. Renou, Director.
Toulouse, Observatory	29.39	746.4	30.11	764.8	52.9	11.6	73	se.			4		2	se.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	30.06	763.5	30.24	768.0	47.5	8.6	65	ne.			1		2	sw.	sw.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.73	755.1	30.22	767.6	37.4	3.0	86	e.			2		10			0.008	0.2	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.93	760.2	30.08	764.0	46.9	8.3	66	s.	7.8	3.5		4 ck			w.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.92	734.6	30.47	773.8	29.8	— 1.2	83	e.			2		0			0	0		Prof. Jnedt.
Bamberg	29.52	749.8	30.37	771.5	37.9	3.3	60	e.			2		2 s			0	0		Prof. Dr. Hoh.
Berlin	30.42	772.7	30.58	776.6	28.0	— 2.2	92	e.			2		2			0	0		Meteorological Institute
Breslau	30.07	763.7	30.61	777.5	28.6	— 1.9	84	se.			2		0			0	0	misty	Royal University Obs'y
Carlsruhe	29.93	760.3	30.42	772.7	32.2	0.1	78	ne.			1		10	ne.		0	0		Albert Senz.
Cassel	29.69	754.2	30.41	772.3	30.6	— 0.8	73	nw.			1		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.05	763.3	30.43	773.0	31.8	— 0.1	74	nne.			1		1			0	0		Physical Society.
Friedrichshafen	28.92	734.5	30.42	772.7	31.1	— 0.5	85	nne.			2		10	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.44	773.1	30.53	775.4	26.8	— 2.9	89	ese.			3		0			0	0	hazy	E. Preiler.
Kiel	30.52	775.1	30.53	775.5	28.6	— 1.9	85	ese.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	30.06	763.6	30.51	774.9	33.1	0.6	80	e.			2		0			0	0		H. Leppig, Asst.
Magdeburg	30.30	769.7	30.51	774.9	30.6	— 0.8	90	ene.			1		0			0	0		Weather Observatory.
Memel	30.54	775.6	30.58	776.8	34.5	1.4	93	wnw.			5		10 k						Issermann.
Munich	28.50	723.9	30.39	771.8	27.9	— 2.3	82	calm			0		10			0	0		Central Station.
Neufahrwasser	30.61	777.4	30.62	777.8	26.8	— 2.9	91	s.					1			0	0		A. Lothes.
Neustadt, Palatinate	29.84	758.0	30.37	771.5	31.1	— 0.5	81	wsw.			1		10			0	0		Dicknether.
Stuttgart	29.42	747.2	30.29	769.3	30.2	— 1.0	92	se			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.55	776.0	30.58	776.6	25.0	— 3.9	82	se.			2		10			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.97	761.1	30.36	771.2	46.8	8.2		n.			1.5	0	8 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	30.02	762.5	30.07	763.8	69.7	20.9	53	sw.	17.0	7.6			3			0	0	d. clouds	
Deesa	29.56	750.8	30.04	763.1	72.5	22.5	30	nnw.	2.0	0.9			0			0	0	blue sky	
Bombay	29.94	760.5	29.98	761.5	76.1	24.5	64	nnw.	13.0	5.8			0			0	0	blue sky	
Poona, Yarrowda	28.12	714.2	30.00	761.9	73.8	23.2	27	ene.	8.0	3.6			0			0	0	blue sky	
Belgaum	27.40	695.9	29.96	760.9	72.8	22.7	34	ene.	3.0	1.3			0			0	0	blue sky	
Lahore	29.31	744.5	30.09	764.3	59.6	15.3	60	calm	0	0			0			0	0	blue sky	
Roorkee	29.13	739.8	30.06	763.6	62.3	16.8	59	w.	2.0	0.9			1			0	0	blue sky	
Agra	29.50	749.3	30.08	764.2	67.3	19.6	42	nw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.97	735.9	30.05	763.2	68.2	20.1	32	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.69	728.6	30.09	764.3	65.1	18.4	41	calm	1.0	0.4			0			0	0	blue sky	
Lucknow	29.68	753.8	30.07	763.7	67.3	19.6	58	calm	0	0			0			0	0	blue sky	
Allahabad	29.74	755.3	30.07	763.7	61.0	16.1	76	calm	0	0			0			0	0	blue sky	
Patna	29.84	757.9	30.03	762.8	64.4	18.0	60	sw.	1.7	0.8			4	sw.	sw.	0	0	d. clouds	
Hazaribagh	27.99	710.9	30.09	764.2	58.7	14.8	64	nnw.	8.0	3.6			10			0	0	overcast	
Cuttack	29.92	760.0	30.00	762.1	72.0	22.2	67	e.	1.0	0.4			8			0	0	d. clouds	
Calcutta, Alipore	29.99	761.7	30.01	762.3	64.9	18.3	76	nnw.	1.0	0.4			6			0	0	d. clouds	
Dhubri	29.86	758.6	29.99	761.7	64.7	18.2	70	ene.	2.6	1.2			0			0	0	blue sky	
Chittagong	29.96	760.9	30.05	763.3	70.6	21.4	58	calm	0.9	0.4			1			0	0	d. clouds	
Sibsagar	29.65	753.1	30.00	762.1	57.6	14.2	79	ne.	2.0	0.9			8	sw.	sw.	0	0	d. clouds	
Jeypore	28.61	726.7	30.10	764.7	66.0	18.9	35	nw.	3.5	1.6			0			0	0	blue sky	
Zanzibar	29.86	758.5	29.88	759.0	85.8	29.9	60	ne.	11.9	5.3			2			0.17	4.3	d. clouds	
Bellary	28.45	722.6			76.5	24.7	31	ne.				0	0			0	0	blue sky	
Trichinopoly	29.67	753.6			85.0	29.4	47	ene.	0.2	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	30.10	764.4	30.52	775.2	40.6	4.8	42	e.	4.9	2.2			0			0	0		Prof. Giovanni Clodig.
Milan	30.02	762.6	30.57	776.4	36.7	2.6	59	nw.	3.8	1.7			7	wsw.		0	0		Prof. G. V. Schiapparelli
Padua	30.42	772.6	30.53	775.5	40.6	4.8	43	ne.	7.4	3.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.60	751.8	30.55	776.0	38.3	3.5	76	sse.	0	0			8	nw.		0	0		Prof. F. F. Denza.
Genoa	30.27	768.9	30.47	773.9	41.4	5.2	51	n.	9.4	4.2			8	n.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.47	774.0	30.52	775.3	38.5	3.6	60	nw.	16.8	7.5			10			0.028	0.7		Prof. Luigi Guidi.
Florence	30.15	765.9	30.42	772.6	43.5	6.4	48	ne.			4		0			0	0		Prof. Costantino Pittei
Leghorn	30.30	769.6	30.39	771.8	45.0	7.2	45	ene.	9.4	4.2			7			0	0		Prof. P. Monte.
Rome	30.22	767.6	30.40	772.2	48.2	9.0	52	n.	3.1	1.4			9			0	0		Prof. P. Tacchini.
Lecce	30.13	765.4	30.39	772.0	49.3	9.6	55	nne.	11.2	5.0			2			0.087	2.2		Prof. C. de Giorgi.
Cosenza	29.50	749.3	30.42	772.7	45.0	7.2	71	w.	3.1	1.4			1	wnw		0	0		Prof. D. Conti.
Cagliari	30.08	764.0	30.28	769.0	54.9	12.7	59	e.			2		5			0	0		Prof. A. Pacinotti.
Palermo	30.10	764.5	30.35	771.0	54.5	12.5	64	ene.	1.3	0.6			2			0	0		Prof. G. Cacciatore.
Syracuse	30.30	769.5	30.34	770.7	52.7	11.5	72	nne.	4.9	2.2			10	nne.		0.118	3.0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.86	758.4	30.40	772.2	50.5	10.3	57	ne.	0.7	0.3			1			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.11	764.8	30.14	765.7	25.2	— 3.8	95	nw.			6		10 n			0.150	3.8	snowing	H. Hattori.
Awomori	30.05	763.3	30.08	764.0	22.0	— 5.6	80	sw.	9.5	4.2			10 n			0.124	3.1	snowing	K. Ogawa.
Hakodate	30.05	763.3	30.06	763.6	16.3	— 8.7	100	nne.	6.0	2.7			10 n			0.068	1.7	snowing	Y. Souma.
Hamamatsu	30.12	765.0	30.22	767.5	32.1	0.1	81	w.			4	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.26	768.7	30.28	769.1	34.7	1.5	77	ne.	3.9	1.8		10 cs	0	nw.		0	0	cloudy	Y. Okamoto.
Kagoshima	30.32	770.1	30.33	770.4	33.1	0.6	72	nnw.			2	0	0			0	0	clear	
Kanazawa	30.19	766.8	30.30	769.6	29.9	— 1.2	96	se.	7.4	3.3			10 n			0.480	12.2	snowing	S. Endo.
Kioto	30.13	765.4	30.31	769.8	28.1	— 2.2	86	calm	0	0			18;ck			0	0	clear	M. Tojima.
Kochi	30.30	769.6	30.32	770.1	31.7	— 0.2	76	w.	1.1	0.4		0	0			0	0	clear	K. Kusunose.
Miasaka	30.32	770.2	30.35	770.9	28.4	— 2.0	60	nnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.96	760.9	30.07	763.7	22.6	— 5.2	83	wsw.	0.1	0.04		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.12	765.0	30.34	770.6	32.1	0.1	78	calm	0	0		0	1 s			0	0	clear	
Nemuro	29.84	757.9	29.89	759.2	23.0	— 5.0	52	calm	0	0		0	4 s					snowing	A Shibuya.
Niigata	30.19	766.8	30.22	767.6	32.7	0.4	81	nw.	4.2	1.9		0	5 ks		nw.	0.020	0.5	½ cloudy	Satoo & Tomikawa.
Nobiru	30.11	764.8	30.13	765.2	27.3	— 2.6	89	nw.	12.0	5.4		0	5 s			0	0	fair	Yoslino & Midzushina.
Numadzu	30.15	765.8	30.18	766.6	31.0	— 0.6	60	ene.			2	0	0			0	0	clear	T. Ohgi.
Osaka	30.29	769.4	30.31	769.8	29.5	— 1.4	75	e.	3.3	1.4		0	0			0	0	clear	H. Omura.
Sakai	30.29	769.4	30.30	769.6	33.9	1.1	90	w.			2		10 ks		w.	0.228	5.8	cloudy	Yamawchi & Sakamoto.
Sapporo	29.99	761.8	30.06	763.6	17.0	— 8.3	93	w.	10.6	4.7			10 n			0.065	1.6	covered	S. Kimura.
Shimonoseki	30.18	766.4	30.32	770.1	36.0	2.2	67	calm	0	0		0	0			0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	30.12	765.0	30.20	767.1	29.0	— 1.7	44	n.	6.3	2.8		0	0			0	0	clear	The Staff.
Wakayama	30.26	768.5	30.31	769.9	32.4	0.2	73	calm	0	0			10ck;ks			0	0	cloudy	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.82	757.4	30.01	762.2	80.9	27.2	76	wnw.	7.0	3.1		2cs;c	6 k;ks	nw.	e.	0.34	8.6	fair	The Staff.
MEXICAN.																			
Leon	24.33	618.0	30.10	764.5	51.3	10.7	77	nnw.	0.9	0.4		2 c	2cs;ks			0	0	fair	M. Leal & M. Pina.
Mazatlan	29.77	756.1	30.03	762.8	65.0	18.3	73	nw.	11.0	4.9		c	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.37	771.3	30.37	771.3	32.4	0.2		se.			4					0	0		
Groningen	30.46	773.6	30.51	775.0	25.0	— 3.9		e.			1					0	0		
Helder	30.40	772.2	30.40	772.2	28.4	— 2.0		se.			2					0	0		
Hellevoetsluis	30.39	772.0	30.39	772.0	41.4	5.2	92	e.			2					0	0		
Utrecht	30.36	771.1	30.41	772.5	28.6	— 1.9	83	ese.			3		5			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.3			78.8	26.0	75	nne.	1.0	0.4			10			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.42	772.6	30.48	774.2	42.1	5.6	94	nnw.	2	1			10			0.008	0.2		
Brono	30.00	761.9	30.04	762.9	44.1	6.7	90	w.			6		10			0.118	3.0	raining	
Christiania	30.25	768.4	30.41	772.4	22.3	— 5.4	100	nne.	0	0			10			0	0		
Gjesvær	29.39	746.4	29.41	747.0	21.0	— 6.1		ne.			7		10			0	0		
Lodingen	29.69	754.1	29.74	755.3	32.5	0.3	64	wnw.			4		10			0.091	2.3	snowing	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.80	756.8	29.88	759.0	66.0	18.9	85	sw.	9.4	4.2			10			1.189	30.2		Capt. D. A. de Cunha.
Lisbon, Observatory	29.59	751.6	29.93	760.1	59.4	15.2	93	s.	7.4	3.3			10			0.764	19.4	raining	The Staff.
Ponta Delgada, Azores	29.21	742.0	29.28	743.8	61.9	16.6	72	ssw.	23.0	10.3			3			0.787	20.0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	29.99	761.7	30.02	762.6	70.7	21.5	85	ne.			3		3			0	0		
San Salvador, Congo	27.65	712.3	29.90	759.4	70.3	21.3	93	n.			2		10					raining	
Serra da Estrella	25.18	639.5	30.05	763.3	33.4	0.8	100	ese.	29.3	13.1			10			0.354	9.0	rain & fog	
RUSSIAN.																			
Akmolinski	28.85	732.9	30.04	763.0	5.7	—14.6	100	sw.	40	18			10 n			0	0		Major K. Lasarew.
Archangel	28.81	731.7	28.83	732.2	36.3	2.4	87	wsw.	22	10			10			0.118	3.0		Capt. Sselliwerstow.
Ashurada	30.51	774.9	30.41	772.5	44.2	6.8	90	ene.	9	4			10 n			0.122	3.1		
Astrakhan	30.53	775.4	30.45	773.4	25.5	— 3.6	95	wsw.	2	1			10			0	0		Capt. Wisganow.
Baku	30.50	774.8	30.46	773.6	40.1	4.5	76	calm	0	0		0	8 ks			0	0		
Barnaul	29.53	750.1	30.08	764.0	9.0	—12.8	80	sw.	22	10			10			0.331	8.4		Meteorological Office.
Bielozersk	29.24	742.8	29.72	755.0	34.3	1.3	92	wsw.	13	6			10 s			0	0		
Dorpat	30.02	762.6	30.28	769.1	33.8	1.0	90	w.	16	7			10 n			0	0		Observatory.
Ekaterinburg	28.50	724.0	29.50	749.4	23.0	— 5.0	98	sw.	9	4			10			0	0		Meteorological Obs'y.
Elissawetgrad	30.12	765.1	30.62	777.7	18.0	— 7.7	100	nnw.	7	3			10 s;n			0	0		
Kasan	29.52	749.8	29.80	756.9	28.4	— 2.0	100	wsw.	13	6			10			0	0		Observatory.
Kem	29.02	737.1	29.07	738.4	40.6	4.8	70	w.	45	20		0	2 k			0.118	3.0	h'vy clouds	
Kertch	30.46	773.7	30.48	774.3	23.7	— 4.6	98	calm	0	0			9 n			0	0		Lagorio & Sastyres.
Kieff	29.87	758.8	30.56	776.2	25.0	— 3.9	91	wnw.	4	2		1 cs	0			0	0		Observatory.
Koslov	29.60	754.1	30.23	767.9	18.5	— 7.5	89	w.	11	5			10 s			0	0		
Lgov	29.85	758.3	30.51	774.9	14.4	— 9.8	88	wsw.	9	4		4 cs	0			0	0		R. I. Ssaweljew, Engin'r.
Libau	30.49	774.5	30.52	775.1	34.7	1.5	87	w.	13	6			10			0	0		E. Quass.
Lugan	30.26	768.6	30.48	774.3	16.9	— 8.4	91	w.	13	6			9			0	0		Meteorological Obs'y
Moscow	29.64	752.8	30.15	765.8	25.3	— 3.7	90	nw.	7	3			10 s			0	0		Meteorological Obs'y
Nertschinsk	27.78	705.5	30.40	772.1	—15.2	—26.2	87	calm	0	0			0			0	0		

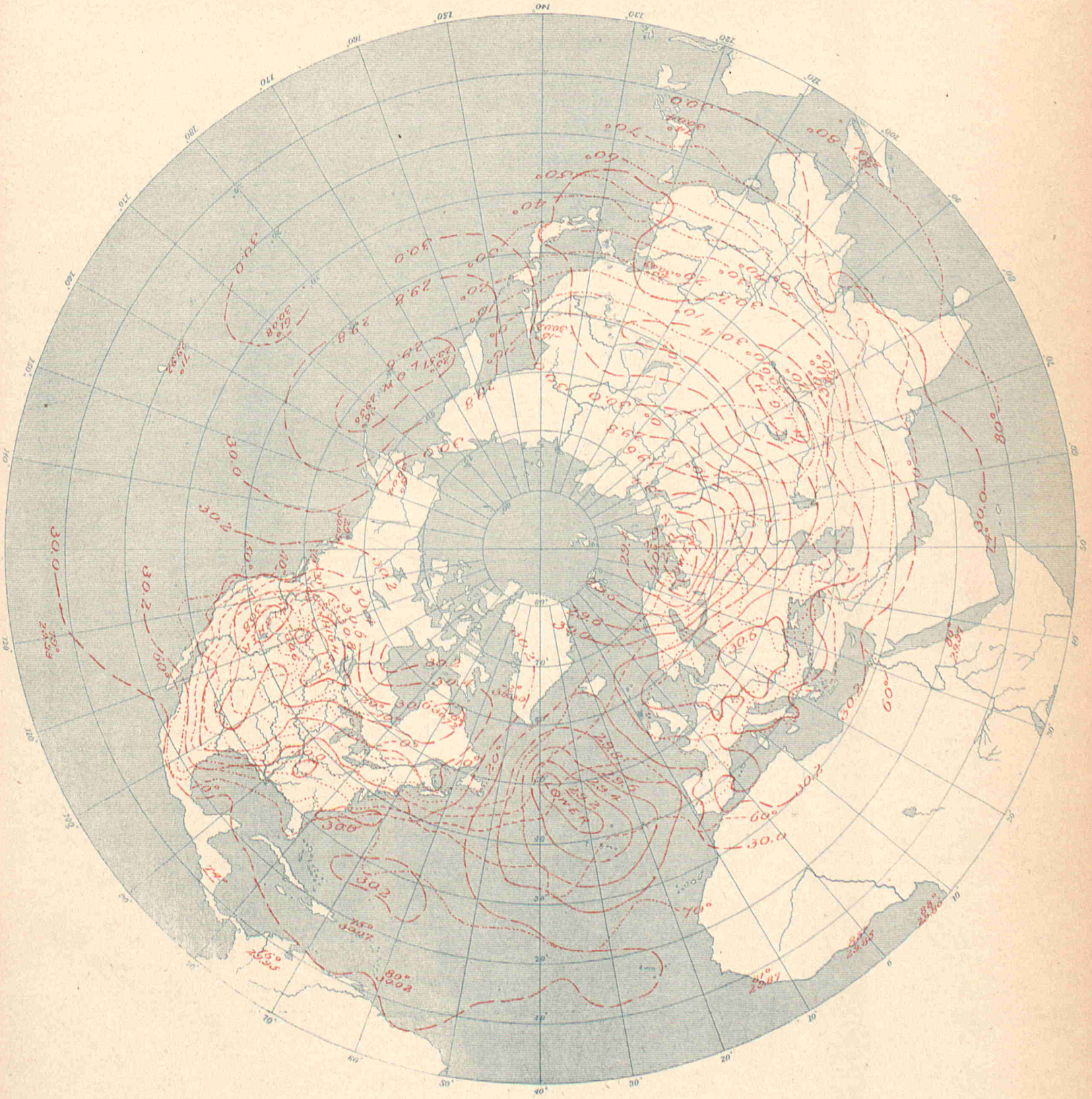
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	30.53	775.4	30.60	777.2	15.4	— 9.2	94	calm	0	0			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	29.94	760.4	30.02	762.6	—15.2	—26.2	71	w.	2	1.		2 c	0						Iwanow.
Pekin, China	29.95	760.6	30.09	764.2	23.2	— 4.9	53	calm	0	0		0	0			0	0		**Physical Observatory.**
Petro-Alexandrovsk	30.06	763.4	30.44	773.1	24.4	— 4.2	50	calm	0	0			10 k						
Petrozavodsk	29.33	745.0	29.53	750.1	36.7	2.6	85	wnw.	45	20		0	8 ks			0	0		Dr. Bergmann.
Pinsk	30.15	765.9	30.69	779.6	23.9	— 4.5	95	w.	13	6			10 s			0	0	light clouds	
Poti	30.32	770 1	30.35	770.9	52.5	11.4	78	se.	4	2		0	5 ks			0	0		
St. Petersburg	30.00	761.9	30.02	762.5	35.2	1.8	91	w.	22	10			10 n			0	0		Central Physical Obs'y.
Samarkand	27.77	705.3	30.37	771.5	31.1	— 0.5	82	calm	0	0			10 n						
Semipalatinsk	29.72	754.8	30.45	773.4	7.0	—13.9	75	w.	27	12			10			0.020	0.5		Major Lasarew
Sevastopol	30.24	768.0	30.46	773.7	38.7	3.7	75	calm	0	0		0	1 s			0	0		
Staroi Bykhov	29.89	759.2	30.49	774.5	18.1	— 7.7	100	nw.	9	4		c	8 ks			0	0		
Tashkend, Laboratory	28.67	728.2	30.53	775.5	10.0	—12.2	84	calm	0	0		0	7 k					light clouds	Torch, A. M
Tiflis	28.98	736.2	30.49	774.5	32.4	0.2	94	sse.	4	2			10 s			0.201	5.1	snowing	Physical Observatory.
Vernoe	27 89	708.5	30.74	780.9	— 2.0	—18.9	65	calm	0	0		0	0						
Viatka	28.92	734.5	29.60	751.7	10.0	—12.2	100	w.	18	8			10			0.051	1.3		
Vladivostock	30.17	766.3	30.24	768.0	9.5	—12.5	80	calm	0	0		0	0			0	0		
Warsaw	30.21	767.2	30.64	778.2	26.2	— 3.2	87	calm	0	0		0	0			0	0		Astronomical Obs'y.
Yeniseisk	29.60	751.7	29.91	759.7	2.1	—16.6	82	calm	0	0			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.52	749.8	30.09	764.3	25.9	— 3.4	91	w.	21	9.4			10 ks		w.	0	0	cloudy	**Prof. S. Fadeleff.**
Spanish.																			
Barcelona, Met. Obs'y	30.01	762.2	30.12	765.0	51.8	11.0	84	ne.								0	0	covered	**B. J. Elin.**
Bilbao, Met. Obs'y	29.97	761.3	30.03	762.8	53.2	11.8	63	se.	4.9	2.2		2	7	sw.		0	0	almost cov	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.08	687.8	30.11	764 9	45.1	7.3	67	se.	3.1	1.4		0	8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.89	708 3	30.20	767 0	42.3	5.7	92	ne.	7.8	3.5			10			0.020	0.5	rainy	The Staff.
Murcia, Met. Obs'y	30.05	763.3	30.19	766 9	52.9	11.6	84	se.	0.07	0.03		5	5			0.094	2.4	rainy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.94	735.1	29.85	758 1	48.4	9.1	83	se.	8.1	3.6			10			0.051	1.3	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.01	762.2	30.08	763.9	68.0	20.0	92	se.	0.7	0.3		0s	k	w.	s.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.98	761.5	30.04	762 9	74.0	23.3	84	ne.	1.1	0.5		0	s			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	761.9	30.10	764.5	58.3	14.6	83	ese.	17.3	7.8			10		se.	1.024	26.0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	29.98	761.4	30.07	763.7	74.8	23.8	95	n.	16.1	7.2			9 kn		n.	0.264	6.7	raining	Enrique Gaden, Chf Eng
Swedish.																			
Haparanda	29.44	747.8	29.48	748.8	42.1	5.6	88	w.			7		5			0	0		
Umea	29.80	756.8	29.85	758.1	43.9	6.6	68	nw.			7		5			0	0		
Hernosand	29.99	761.8	30.04	763.1	45.0	7.2	69	w.			2		5			0	0		
Stockholm	30.17	766.3	30.35	770.8	35.6	2.0	87	w.			4		10			0	0		
Wisby	30.42	772.7	30.48	774.2	33.1	0.6	85	wnw.			6		10			0	0		
Sub-series.																			
Upsala	30.21	767.3	30.30	769.5	34.5	1.4	91	wsw.	9.4	4.2			2	nw.		0	0		H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.46	773.6	41.5	5.3	87	n.	20	9.0			10		n.	0.106	2.7		The Observatory.
Valona			30.36	771.2	52.0	11.1		ne.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.19	766.8	62.1	16.7	63	ne.			1	8 c	0	sw.		0	0		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.13	765.3	30.22	767.6	32	0.0	76	n.	2	0.9			10 n			0.07	1.8	light snow	J. O. Barnes.
Alpena, Michigan	29.66	753.4	30.37	771.4	11.2	—11.6	80	n.	7	3.1			10 n			0.16	4.1	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.31	642.9	30.43	772.9	15.7	— 9.1	73	e	8	3.6		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.54	699.5	30.58	776.7	—16	—26.7	44	e.	3	1.3			10 s		e.	0	0	cloudy	F. Newman.
Atlanta, Georgia	28.83	732.3	30.06	763.5	55.0	12.8	100	s.	6	2.7			fg.			0.02	0.5	dense fog	S. W. Beall.
Atlantic City, New Jersey	30.07	763 8	30.08	764.0	40.0	4.4	100	ne.	12	5.4			10 n		ne.	0.01	0.3	light rain	B. A. Blundon.
Augusta, Georgia	29.80	758.4	30.06	763 5	60	15.6	93	calm	0	0			10 n			0.64	16.3	light rain	W. J. Evans.
Baltimore, Maryland	30.07	763.8	30.12	765.0	42	5.6	73	ne.	4	1.8			10 n		n.	0.21	5.3	light rain	Geo W Feiger.
Barnegat City, New Jersey	30.08	764 0	30.10	764.5	40.5	4.7	100	e.	16	7.2			10 n		e.	0.08	2.0	light rain	F. L. Johnson.
Bennett, Fort, Dakota	29.12	739.6	30.86	783.8	—20.0	—28.9	100	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.60	701.0	30.58	776.7	—10.5	—23.6	59	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.84	732.5	30.84	783.3	—24	—31.1	100	nw.	2	0.9		0	0			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.11	764.8	30.14	765 5	36.5	2.5	100	ne.	18	8.0			fg.			0	0	dense fog	J. T. Elker.
Boise City, Idaho	27.89	708.4	30.82	782.8	2	—16.7	96	w.	2	0.9		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	30.04	763.0	30.20	767.1	25.0	— 3.9	100	nw.	7	3.1			10 n			0.18	4.6	sleeting	O. B. Cole.
Brownsville, Texas	30.32	770 1	30.38	771.6	38.2	3.4	62	n.	24	10.7		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.50	749.3	30.29	769.4	27	— 2.8	86	n.	3	1.3			10 s			0.03	0.8	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.60	726.4	30.83	783.1	—28.2	—33.4	100	calm	0	0		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.67	753.6	30.09	764.3	35.8	2.1	91	nw.	7	3.1			10 n			0.07	1.8	light rain	W. H. Ray.
Canby, Fort, Washington Ter	30.17	766.3	30.37	771.4	37.2	2.9	87	e.	38	17.0		0	10 s		e.	0.01	0.3	cloudy	**J. H. Young.**
Cape Henry, Virginia	30.06	763.5	30.08	764.0	45.0	7.2	100	n.	2	0.9			10 n			0.37	9.4	light rain	A. K. Alderson.
Cape May, New Jersey	30.04	763.0	30.07	763.8	43.0	6.1	93	e.	18	8.0			10 s			0.09	2.3	cloudy	W. E. Smith.
Cape Mendocino, California	29.70	754.4	30.40	772.1	47	8.3	86	se.	2	0.9		0	9 ks		se.	0	0	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.04	763.0	30.06	763 5	65.5	18.6	100	sw.	11	4.9			10 n		s.	0.91	23.1	heavy rain	G. W. Davis.
Charleston, S. Carolina	29.95	760 7	30.01	762.2	59.0	15.0	93	e.	5	2.2			10 s		e.	0.88	22.4	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.15	740.4	30.04	763 0	53.4	11.9	96	nw.	2	0.9			fg.			0.20	5.1	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.14	740 1	30.00	762.0	53.0	11.7	96	se.	3	1.3			fg.			inap.	inap.	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.22	615.2	30.49	774.4	0.8	—17.3	70	n.	28	12.5		0	0			0.01	0.3	clear	E. McGovern.
Chicago, Illinois	29.47	748.5	30 22	767.6	28.0	— 2.2	82	ne.	16	7.2			10 s			inap.	inap.	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.01	762 2	30.03	762.7	42	5.6	100	ne.	8	3.6			fg.			0.13	3.3	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.42	747.3	30.11	764.8	37.7	3.2	92	e.	7	3.1			10 s		e.	0.31	7.9	cloudy	L. Dunne.
Cleveland, Ohio	29.46	748.3	30.24	768.1	28.5	— 1.9	94	ne.	12	5.4			10 s		ne.	0.05	1.3	cloudy	W. Line.
Columbus, Ohio	29.26	743.2	30.16	766.1	32.8	0.4	80	n.	9	4.0			10 s		n	0.24	6.1	cloudy	F. T. Williams.
Concho, Fort, Texas	28.65	727.7	30.67	779.0	14.0	—10.0	83	nw.	6	2.7		0	0			0	0	clear	C. E. King.
Custer, Fort, Montana	27.39	695 7	30.77	781.5	—15	—26.1	69	se.	6	2.7		0	0			0	0	clear	W. J. Daily.
Davenport, Iowa	29.56	750.8	30.27	768.8	22	— 5.6	80	n.	12	5.4			10 n			0.02	0.5	light snow	R. R. Martin.
Davis, Fort, Texas	25.52	648.2	30.50	774.7	6.4	—14.2	96	n.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.95	735.3	30.76	781.3	8.4	—13.1	76	n.	4	1.8		0	8 s			0	0	cloudy	**H. S. Blandford.**
Deadwood, Dakota	25.71	653.0	30.66	778.7	3.2	—16.0	79	se.	3	1.3		0	0			0	0	clear	**G. Kingsbury.**
Delaware Breakwater, Del.	30.04	763.0	30.06	763.5	40.5	4.7	100	ne.	17	7.6			10s; fg		ne.	0.04	1.0	cloudy	**G. A. Martin.**
Denver, Colorado	25.02	635.5	30 54	775.7	4.0	—15.6	67	s.	2	0.9		0	0			inap.	inap.	clear	F. M. Neal.
Des Moines, Iowa	29.43	747.5	30.40	772.1	6.5	—14.2	62	n	8	3.6			10 n		n.	0.08	2.0	light snow	F. W. Conrad.
Detroit, Michigan	29.55	750.6	30.31	769.9	23.0	— 5.0	88	n.	8	3.6			10 s			0.03	0.8	cloudy	N. B. Conger.
Dodge City, Kansas	27.83	706.9	30.58	776.7	0	—17.8	72	nw.	20	8.9		0	0			0.08	2.0	clear	**J. E. Lanouette.**
Dubuque, Iowa	29.59	751.6	30.36	771.1	22.5	— 5.3	75	n.	8	3.6			10 n			inap.	inap.	light snow	J. Harvey Smith
Duluth, Minnesota	29.75	755.6	30.56	776.2	6	—14.4	76	nw.	4	1.8			10 s		s.	0	0	cloudy	E. R. Brace.
Eastport, Maine	30.28	769.1	30.35	770.9	23.5	— 4.7	80	e.	25	11.2			10 s		ne.	0.06	1.5	cloudy	D. C. Murphy
Elliott, Fort, Texas	27.66	702.6	30.58	776.7	7.1	—13.8	83	nw.	12	5.4		0	0			inap.	inap.	clear	J. C. Rickli.
El Paso, Texas	26.68	677 7	30.56	776 2	18.7	— 7.4	17	se.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.47	748.5	30.24	768.1	29.5	— 1.4	88	ne.	10	4.5			10 s		ne.	0.04	1.0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.70	754.4	30.42	772.7	16.0	— 8.9	83	n.	14	6.3		0	8 k		n.	0.03	0.8	cloudy	**L. M. Pindell.**
Fort Smith, Arkansas	29.91	759.7	30.41	772.4	14.0	—10.0	80	nw.	16	7.2		0	5 s		w.	0	0	fair	J. B. Campbell.
Galveston, Texas	30.26	768.6	30.30	769.6	33.5	0.8	61	n.	32	14 3		0	8 ks		ne.	0.03	0.8	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.57	751 1	30.28	769.1	20.0	— 6.7	84	n.	12	5.4			10 s			0	0	cloudy	**Joseph E. Mueller.**
Grant, Fort, Arizona	25.50	647.7	30.40	772.1	19.3	— 7.1	56	se.	3	1.3		2 c	0	w.		0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	29.97	761.2	29.98	761.5	53.3	11.8	100	nw.	2	0.9			fg.			0.55	14.0	dense fog	R. M. Crawford.
Helena, Montana	26.40	670.5	30.78	781.8				n.	3	1.3		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	29.22	742.2	30.76	781.3	—16.2	—26.8	100	nw.	16	7.2		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.25	742.9	30.09	764.3	31.1	— 0.5	68	e.	6	2.7			10 s		e.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.38	771.6	30.41	772.4	30.0	— 1.1	64	n.	52	23.2		0	0			0.02	0.5	clear	I. A. Reed.
Jacksonville Florida	30.02	762.5	30.07	763.8	67.0	19.4	100	se.	1	0.4			fg.			0	0	dense fog	J. W. Smith.
Keokuk, Iowa	29.52	749.8	30.22	767.6	21.2	— 6.0	91	n.	8	3.6			10 n		n.	0.25	6.3	heavy snow	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	72.5	22.5	82	se.	1	0.4			10 s		se.	0.14	3.6	cloudy	A. W. Browne.
Kittyhawk, North Carolina	30.01	762.2	30.03	762.7	49.0	9.4	100	ne.	1	0.4			fg.			0.49	12.4	dense fog	Wesley Blake.
Knoxville, Tennessee	28.96	735.6	30.04	763.0	49	9.4	100	ne.	1	0.4			fg.			inap.	inap.	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.59	751.6	30.43	772.9	17	— 8.3	83	ne.	10	4.5			10 s			0	0	cloudy	S. C. Emery
Leavenworth, Kansas	29.42	747.3	30.38	771.6	4	—15.6	85	n.	17	7.6			10 n			0.19	4.8	light snow	T. S. Outram.
Lewiston, Idaho	29.99	761.7	30.86	783.8	16.0	— 8.9	67	se.	7	3.1		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.88	758.9	30.21	767.3	35.0	1.7	69	nw.	12	5.4			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	30.04	763.0	30.44	773.2	40.0	4.4	48	e.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.42	747.3	30.00	762.0	35.0	1.7	93	ne.	15	6.7			10 n			0.57	14.5	light rain	L. M. Dey.
Lynchburg, Virginia	29.34	745.2	30.06	763.5	49.0	9.4	93	ne.	1	0.4			10 s			0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.74	755.4	30.44	773.2	7.2	—13.8	73	ne.	8	3.6		0	2 s			0.95	24.1	clear	D. B. Notson.
Macon, Fort, North Carolina	29.96	761.0	29.97	761.2	56.0	13.3	100	s.	9	4.0			10 n		se.	0.54	13.7	light rain	William Daly.
Maginnis, Fort, Montana	25.71	653.0	30.48	774.2	3.3	—15.9	49	nw.	20	8.9		10 k	0	nw.		0	0	cloudy	F. Burke.
Marquette, Michigan	29.68	753.9	30.46	773.7	20.0	— 6.7	76	ne.	10	4.5			10 n			0.03	0.8	light snow	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.10	764.5	35	1.7	100	w.	3	1.3			10 s		w.	0.41	10.4	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.49	749.0	30.29	769.4	20.6	— 6.3	89	n.	19	8.5			10 n			0.02	0.5	light snow	S. W. Rhode.
Mobile, Alabama	29.97	761.2	30.01	762.2	61	16.1	91	calm	0	0			10s;fg			0.36	9.1	cloudy	H. U. Jones.
Montgomery, Alabama	29.78	756.4	30.02	762.5	58	14.4	93	s.	1	0.4			10s;fg			0.02	0.5	dense fog	Geo. E. Franklin.
Moorhead, Minnesota	29.64	752.8	30.75	781.0	—15.2	—26.2	100	n.	10	4.5		0	0			0.01	0.3	clear	H. Bessant.
Mt. Washington, N. H.	23.73	602.7	30.36	771.1	15.0	— 9.4	100	sw.	15	6.7			fg.		sw.	0.06	1.5	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.36	745.7	29.97	761.2	41.2	5.1	100	n.	3	1.3			10 n		n.	0.30	7.6	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.05	763.3	30.17	766.3	30.4	— 0.9	98	ne.	12	5.4			10 n		ne.	0.06	1.5	light sleet	J. H. Sherman.
New London, Connecticut	30.15	765.8	30.20	767.1	30.5	— 0.8	100	ne.	7	3.1			10 n		ne.	0.04	1.0	light rain	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.08	764.0	54.0	12.2	86	nw.	16	7.2			10 n		nw.	1.32	33.5	light rain	M. Herman.
New York, New York	29.98	761.5	30.17	766.3	34.0	1.1	100	ne.	10	4.5			10 n			0.08	2.0	light rain	H. J. Penrod.
Norfolk, Virginia	30.03	762.7	30.06	763.5	48.0	8.9	96	n.	2	0.9			10s;fg			0.45	11.4	cloudy	Wm. Davis.
North Platte, Nebraska	27.51	698.7	30.63	778.0	— 4.4	—20.2	100	nw.	16	7.2		0	0			0.02	0.5	clear	Mc Lean.
Olympia, Washington T'y	30.36	771.1	30.40	772.1	33.0	0.6	88	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.25	742.9	30.52	775.2	— 4.2	—20.1	65	n.	17	7.6			10 s			0.03	0.8	cloudy	A. Pollak
Oswego, New York	29.91	759.7	30.26	768.6	24.0	— 4.4	88	n.	8	3.6			10 s		nw.	0.09	2.3	cloudy	J. G. Linsley.
Palestine, Texas	29.90	759.4	30.48	774.2	18.0	— 7.8	53	nw.	14	6.3		0	0			0.01	0.3	clear	P. T. Jenkins.
Pensacola, Florida	29.99	761.7	30.02	762.5	61.1	16.2	96	e.	3	1.3		0	9 s		s.	0.54	13.7	cloudy	M. McGauran.
Philadelphia, Pa.	30.04	763.0	30.15	765.8	36.0	2.2	100	e.	10	4.5			10 n			0.05	1.3	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.37	441.2	30.07	763.8	—28.0	—33.3	100	n.	37	16.5		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.30	744.2	30.15	765.8	36.5	2.5	84	nw	6	2.7			10 s		nw.	0.13	3.3	cloudy	O. D. Stewart.
Poplar River, Montana					— 34	—36.7	100	n.			1	0	0			0	0	clear	G. A. Garden.
Port Huron, Michigan	29.52	749.8	30.25	768.3	25.0	— 3.9	73	ne.	17	7.6			10 s			inap.	inap.	cloudy	M. H. Perry
Portland, Maine	30.23	767.8	30.28	769.1	22.9	— 5.1	90	ne.	12	5.4			10 n		ne.	0.19	4.8	heavy snow	W. W. Eichelberger.
Portland, Oregon	30.47	773.9	30.54	775.7	27.0	— 2.8	70	e	10	4.5			10 s			0	0	cloudy	M. L. Hearne.
Prescott, Arizona	25.08	637.0	30.46	773.7	22.5	— 5.3	21	e.	3	1.3		0	4 s			0	0	fair	N. D. Lane.
Provincetown, Mass.	30.14	765.5	30.17	766.3	38.1	3.4	90	e.	13	5.8			10s;fg		e.	0.08	2.0	cloudy	C. N. Kitchel.
Red Bluff, California	30.16	766.1	30.54	775.7	37	2.8	85	n.	4	1.8		0	2 ks		n.	0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.27	768.8	30.52	775.2	40.0	4.4	46	nw.	24	10.7		10 cs	0	nw.		0.01	0.3	cloudy	L. G. Schultz.
Rochester, N. Y.	29.57	751.1	30.28	769.1	23	— 5.0	88	nw.	6	2.7			10 s			0.07	1.8	cloudy	E. W. McGann.
Roseburg, Oregon	29.91	759.7	30.48	774.2	33.2	0.7	87	e.	1	0.4		0	0			0	0	clear	J. J. Nunry.
Sacramento, California	30.44	773.2	30.52	775.2	39.5	4.2	94	n.	2	0.9			8 s			0	0	cloudy	J. A. Barwick
St. Louis, Missouri	29.60	751.8	30.26	768.6	27.4	— 2.6	93	n.	14	6.3			10 n			0.02	0.5	light snow	J. H. Weber.
St. Michael, Fort, Alaska	30.00	762.0	30.04	763.0	8	—13.3	87	n.	6	2.7		0	5 ks			0	0	fair	Fred. H. Clarke.
St. Paul, Minnesota	29.55	750.6	30.49	774.4	14.0	—10.0	64	nw.	5	2.2		0	8 s		nw.	0.02	0.5	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.70	756.7	30.77	781.5	—23	—30.6	100	nw.	7	3.1		0	0			0	0	clear	O. B. Dilley
Salt Lake City, Utah	26.26	667.0	30.84	783.3	4	—15.6	52	se.	3	1.3		0	0			0	0	clear	J. Craig.
San Diego, California	30.29	769.4	30.36	771.1	44.0	6.7	51	e.	4	1.8		0	0			0	0	clear	F. R. Day.
Sandusky, Ohio	29.52	749.8	30.24	768.1	27	— 2.8	77	n.	19	8.5			10 s		n.	0.02	0.5	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.12	765.0	30.15	765.8	36.1	2.3	89	ne.	14	6.3			10 n			0.14	3.6	light rain	V. P. Chappel.
Sanford, Florida	30.00	762.0	30.05	763.3	64.0	17.8	92	s.	2	0.9		10 c	0			0	0	cloudy	J. B. Marbury
San Francisco, California	30.40	772.1	30.48	774.2	46.5	8.1	81	e.	8	3.6			8 s		nw.	0	0	cloudy	N. Goroun.
Savannah, Georgia	29.95	760.7	30.05	763.3	61.2	16.2	92	w.	2	0.9			10n;fg		sw.	0.23	5.8	light rain	R. M. Geddings.
Shaw, Fort, Montana	26.80	680.7	30.66	778.7	18	— 7.8	70	sw.	13	5.8		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.11	764.8	30.36	771.1	24.8	— 4.0	80	nw.	19	8.5			10 ks		nw.	0.10	2.5	cloudy	E. N. Meekins.
Sitka, Alaska	30.02	762.5	30.09	764.3	29	— 1.7	56	e.	36	16.1			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smithville North Carolina	29.93	760.2	29.97	761.2	57.8	14.3	97	e.	7	3.1			10 n		w.	0.44	11.2	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.62	726.9	30.76	781.3	4.3	—15.4	63	n.	1	0.4			10 k			0	0	cloudy	D. Moore.
Springfield, Illinois	29.44	747.8	30.17	766.3	25.4	— 3.7	81	n	12	5.4			10 s			0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.50	698.5	30.64	778.2	13.0	—10.6	83	n.	4	1.8		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.28	769.1			33.2	0.7	86	e.	40	17.9			10 n		e.	0.27	6.9	light rain	R. Connor.
Thomas, Camp, Arizona	27.71	703.8	30.54	775.7	15.1	— 9.4	91	nw.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.52	749.8	30.26	768.6	25	— 3.9	88	ne.	14	6.3			10 s			inap.	inap.	cloudy	A. Buell.
Unalashka, Alaska	29.54	750.3	29.56	750.8	36	2.2	79	se.	30	13.4			10 n		se.	4.63	117.6	light rain	Samuel Applegate.
Vicksburg, Mississippi	29.93	760.2	30.20	767.1	39.8	4.3	87	nw.	12	5.4			10 s			0.46	11.7	cloudy	C. Dill.
Washington, D. C.	30.00	762.0	30.12	765.0	37.6	3.1	93	n.	4	1.8			10 s		nw.	0.09	2.3	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.44	671.6	30.57	776.5	— 5.5	—20.8	100	w.	10	4.5		0	0			0.03	0.8	clear	F. R. Brandenburg
Wilmington, N. Carolina	29.97	761.2	30.03	762.7	60.0	15.6	93	nw.	5	2.2			10 s		w.	0.73	18.5	cloudy	L. H. Albrecht.
Yankton, Dakota	29.26	743.2	30.68	779.3	—11.3	—24.1	93	nw.	10	4.5			10 n			0.10	2.5	light snow	E. H. Thompson.
Yuma, Arizona	30.37	771.4	30.52	775.2	41.6	5.3	18	n.	14	6.3		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.55	750.6	29.57	751.1	25.0	— 3.9	83	ne.	8	3.6		0	8k;n		ne.			snowing	George Cheruick.
Bluefields, Nicaragua, C. A.					76	24.4		nw.			1	0	6 ks		ne.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	21.98	558.3			53.6	12.0	86	calm	0	0			10 pk		s.	0.370	9.4		Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	30.55	776.0	30.72	780.3	—18	—27.8	100	sw.	8	3.6			10 s		s	0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.			30.05	763.3	67.6	19.8	91	n.	2	0.9		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.00	762.0	30.00	762.0	75	23.9	90	e.			2		8 ps	e.		0.210	5.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.95	760.7	70	24.4	89	s.			1		9 ks		s.	0.29	7.4	cloudy	Francisco J. Olsneros.
Rivas, Nicaragua, C. A.					74	23.3	92	ne.			1		5 ks		ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.10	764.5	30.17	766.3	—30.0	—34.4		w.	8	3.6		1 c	2 s	w.	w.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.89	759.3	29.90	759.5	78.8	26.0	82	n.	9.4	4.2		0	4 k		n.			fair	P. Fashan.
Nuós, Bay of Panama	29.84	757.9	29.91	759.6	74.5	23.6	90	n.			4	0	1 k		n.			clear	Antonio Fabre.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 49° 35′, W. 18° 25′ †	29.87	758.7				sse.			6		8		ssw.	0	0	high	se.	overcast.
S. S. Alvo, Greytown, Nicaragua *	29.97	761.2	73	22.8		nne.			4		5		n.	6 h'r	6 h'r	high	ne.	fair.
S. S. Alleghany, Norfolk, Va †	30.05	763.3	46	7.8		ne.			1		0			6 h'r	6 h'r			dense fog.
Bg. Abbie Clifford. N. 40° 30′ W. 69° 00′*†	30.11	764.8	44	6.7		e.			6		10			0	0	short	chop	overcast.
Schr. Anna A. Holton, N. 26° 04′. W. 79° 16′ *†	30.14	765.5	79	26.1		se.			4		2		se.	0	0	mod.	e.	clear.
S. S. Alps, Aux Cayes, Hayti, W. I			82	27.8		n.			1		2		n.	0	0			clear.
S. S. British Prince, N. 51° 59′, W. 22° 15′ †.	29.85	758.2	49	9.4		e.			6		6		ese.	6 h'r	6 h'r	h'vy	ese.	squally.
S. S. Cienfuegos, N. 19° 45′, W. 76° 56′	30.09	764.3	78	25.6		ene.			4		0			0	0	small	ene.	hazy.
S. S. Caracas, La Guayra, Venezuela *†	30.00	762.0	76	24.4	85	calm			0				ene.	0	0	r'gh	nne.	overcast.
S. S. City of Augusta New York, N Y						ene.			4		10		ne.	rain	rain			raining.
S. S. Canada. (Br.) N. 41° 48′, W. 63° 15′ †	30.28	769.1	40	4.4		nne.			6		10		nne.	12 h'r	12 h'r	mod.	nne.	cloudy.
S. S. Canada, (Fr.) N. 49° 25′, W. 26° 53′			51.8	11		sse.			3		k		sse.			r'gh	sse.	cloudy.
S. Cornelius, N. 28° 12′. W. 68° 49′*†	30.25	768.3	70.2	21.2		sse.			1		10		ssw.	0	0	mod.	se.	cloudy.
Bk. Diamant, N. 44° 28′, W. 39° 40′	29.43	747.4	50.4	10.2	84	n.			9		6		nne.			8	nne.	squally.
S. S. Dorian, Valencia, Spain	30.24	768.1				var.					10			0	0			cloudy.
S. S. Denmark, London, Eng†.	30.30	769.6	35	1.7	90	e.			5		8		e.	0	0			cloudy.
Bk. Don Quixote, N. 49° 52′, W. 2° 57′ *	29.98	761.5	42	5.6		e.			4		9		ese.	0	0	short	e.	cloudy.
S. S. Fulda, N. 49° 21′, W. 29° 24′	29.39	746.6	52.7	11.5	87	e.			4		3		ese.	4 h'r	4 h'r	mod.	ese.	clear.
Bg. Gipsey Queen, Matanzas, Cuba, W. I *†	30.10	764.5				calm			0					0	0			fine
Bk. Ibis, N. 31° 50′, W. 79° 25′ *	29.99	761.7	69	20.6		calm			0		10		ssw.	0	0	sm'h		cloudy.
S. S. Iowa, N. 50° 47′, W 24° 22′ †	29.62	752.3	54	12.2		ese.			5		2		ese.	1 h'r	1 h'r	long	ese.	clear.
Schr. Jas Slater, N. 18° 04′. W. 59° 36′*†	30.14	765.5	79	26.1		ene.			6		5		ene.	½ h'r	½ h'r	h'vy	ne.	fair.
Bg. Lilian, N. 32° 32′, W. 74° 15′ †	30.05	763.3	72	22.2		ssw.			5		9			0	0	rg'h		threatening.
S. S. Mentmore, N. 51° 22′. W. 17° 14′			50	10.0		se.			7		5		se.	0	0	mod.	se.	fair.
Bk. Matilda C. Smith, N. 27° 11′, W. 56° 00′*†	30.15	765.8				nnw.			2		4		n.	0	0	mod.	n.	fair.
Schr. Maggie Abbott, Fort Liberte, Hayti, W.I*†	30.04	763.0							2		3			0	0			clear.
Bk. Matthias, N. 36° 24′, W. 39° 10′*†	29.57	751.1	60	15.6		nnw.			7–8		10		nw.	6 h'r	6 h'r	5-6	nnw.	squally.
S. S. New York, N. 26° 00′ W. 85° 00′ *†	30.10	764.5	76	24.4		sse.			4		8		sse.			mod	se.	cloudy.
S. S. Neckar, N. 49° 00′, W. 29° 03′			53.0	11.7	80	ese.			4		3		se.	0	0	mod	se.	clear.
S. S. Olbers, N. 7° 26′, W. 45° 34′	29.94	760.5	75.5	24.2	87	ene.			5		9		ene.	1 h'r	1 h'r	mod.	ne.	showery.
S. S. Olinde Rodrignes, N. 45° 25′, W. 38° 55′ *†	29.48	748.8	50	10.0		nnw.			6		7		nw.	6 h'r	6 h'r	high	nnw.	fair.
S. S. Picqua, N. 39° 25′, E. 0° 25′*†	30.20	767.1	55	12.8	100	ne.			2		10			0	0			overcast
S. S. Rhynland, N. 50° 10′, W. 16° 30′	29.86	758.4	52	11.1	86	s.			5		7		s.	4 h'r	4 h'r	sm'h		fair
S. S. Republic, N. 45° 16′, W. 52° 01′*†	29.91	759.7	31	— 0.6		n			6		5		nnw.			mod.	n.	snowy.
S. S. Romano, Hull, Eng			46	7.8		sse.			4		10							foggy.
S. S. Rosse, N. 42° 00′, W. 60° 20′			40	4.4		ne.			6		10		ene.	0	0	mod.	ene.	overcast
Bk. Rosina, N. 24° 00′, W. 45° 36′	30.09	764.3	73	22.8		nw.			3		2		w.	0	0	h'vy	n.	clear.
S. S. Sardinian, N. 52° 06′, W. 37° 00′	29.28	743.7	46	7.8		e.			5		6		se.	0	0	rg'h	se.	fair.
Bk. Sunbeam, N. 36° 30′, W. 71° 35′*†	29.95	760.7	68	20.0	90	sw.			5		10		nw.	5 h'r	5 h'r	sm'h		rainy.
S. S. Scythia, N. 50° 44′, W. 23° 50′	29.56	750.8	53	11.7	93	ese.			3		5		ese.	1 h'r	1 h'r	mod	ese.	fair.
S. S. St. Albans, N. 31° 30′, W. 38° —*.	29 78	756.4	60	15.6		wnw.			6		7		nw.	2 h'r	2 h'r	long	wnw.	fair.
S. S. Thingvalla, Stettin, Germany			26.6	— 3		ese.			4									
Bg. Teneriffe, N. 27° 00′. W. 79° 42′	30.07	763.8				s.			3		5		s.			2	se.	fair.
Schr. Viola Reppard, N. 32° 22′. W. 76° 36′ †	30.05	763.3	76	24.4		nw.			4		10		nw.	6 h'r	6 h'r	mod.	sw.	cloudy
S. S. Virginian, N. 52° 30′ W. 5° 00′			45	7.2		ene.			3		10		ene.	2 h'r	2 h'r	sm'h		overcast.
S. S. Westphalia, Hamburg, Germany			32	0.0	100	n.			1		8		s.	0	0			cloudy.
S. S. Andes, Ponce, Porto Rica, W. I*†	30.10	764.5	81	27.2		ese.			2					0	0	sm'h		fine.
Bk. Ariadne, N. 24° 13′, W. 54° 31′	30.16	766.1	72	22.2		n.			4		3		n.	½h'r	½hr	mod.	n.	fair.
Schr. Annie R. Lewis, N. 29° 45′. W. 64° 51′ †	30.30	769.6	70	21.1		nw.			3		10		sw.	0	0	mod	n.	cloudy.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.15	765.8				calm			0		3		calm	0	0	sm'h		fair.
U. S. S. Alliance, Port au Prince, Hayti, W. I			76	24.4	90	se.			1		2			0	0	sm'h		clear.
S. S. Bothnia, N. 47° 24′, W. 34° 37′	29.17	740.9	57	13.9	93	ese.			6		10		ese.	20 h'r	20 h'r	long	ese.	heavy rain.
S. S. Chalmette, N. 37° 54′, W. 74° 32′ †	30.02	762.5	50	10.0		nne.			5		10		ne.	6 h'r	6 h'r	mod.	ne.	hazy.
Schr. Ellen Crusoe, Mayagues, Porto Rico*†	30.10	764.5				ene.					0			0	0			clear.
Bg. John Welsh, jr., N. 26° 03′. W. 86° 16′ †	30.14	765.5				sse.			4		10		sw.			sm'h	se.	light rain.
S. S. Ontario, N. 45° 00′ W. 56° 30′	30.18	766.6	27	— 2.8		nne.			4		6			1 h'r	1 h'r	sm'h		d. clouds
S. S. Orinoco, Bermuda Id, Atlantic			72	22.2		calm			0		7		calm	0	0			fine.
S. S. Rhaetia, N. 46° 09′, W. 46° 21′			32.5	0.3	95	nnw.			5		2		nne.			long	nne.	fair.
Bk. Saga, N. 28° 10′, W. 24° 28′ *†	29.85	758.3	70	21.1		sw.			6–7		7			8 h'r	8 h'r	r'gh		showery.
S. Storm King, N. 25° 07′. W. 40° 21′*†	30.00	762.0				nw.			3		4		nw.	3 h'r	3 h'r	long	nnw.	fine.
S. S. Samaria, off Boston Light, Mass	30.21	767.3	33	0.6		ne.			4		10			7 h'r	7 h'r			snowy.
S. S. Salerno, N. 48° 37′, W. 28° 54′			54	12.2		e.			2		2		e.			mod.	e.	clear.
U. S. S. Swatara, Port au Prince, Hayti, W. I			74	23.3		n.			1		1		n.			sm'h		clear.
U. S. S. Tennessee, N. 17° 43′, W. 74° 12′	30.04	763.0	79	26.1	73	e.	16	7.2			2		ne.	0	0	mod.	e.	fair.
U. S. S. Vandalia, St. Lucia, W. I	30.00	762.0	77	25.0	72	ene.			2		8		calm					fair.
S. S. Venetian, N. 49° 50′, W. 31° 10′ *	29.38	746.2	52	11.1		ese.			6				se.	0	0	long	sse.	fine.
S. S. Weser, N. 37° 58′ W. 55° 46′	30.08	764.0	60.8	16.		e.			4		10		e.	7 h'r	7 h'r	mod.	e.	cloudy
S. S. Wyoming, N. 40° 45′ W. 67° 57′	30.18	766.6	37	2.8		ene.			5		8		e.	0	0	long	ene.	cloudy
S. S. Westernland, Jersey City, N. J	30.19	766.8	36	2.2		nne.			3		10		nne.	7 h'r	7 h'r			overcast.
S. S. City of Berlin, N. 43° 40′. W. 57° 32′	30.19	766.8	32	0.0		nne.			4									cloudy.
U. S. Navy Yard, Portsmouth, N. H*	30.26	768.6	23	— 5.0	86	ne.	19	8.5			10		ne.					snowing.
U. S. S. Kearsarge, Villefranche, France	30.35	770.9	50	10.0	72	e.			1		10							rainy.
U. S. S. Lancaster, Villefranche, France	30.41	772.1	47	8.3	92	sse.			1		10			0	0	sm'h		cloudy.
U. S. S. New Hampshire, Newport, R. I	30.15	765.8	36	2.2	70	nne.			3		10					sm'h		sleeting.
U. S. S. Quinnebaug, Leghorn, Italy	30.38	771.6	49	9.4	57	ene.			2		5		ene.			sm'h		fair.
U. S. S. Shenandoah, N. 39° 30′, W. 59° 11′ *	30.08	764.0	60	15.6	?	ne.			5		10					mod.	e.	cloudy.
U. S. S. Trenton, Gibraltar, Mediterranean	30.18	766.6	57	13.9	58	sw.			1		10		sw.			sm'h		rainy.
H. M. S. Alexandra, Malta, Mediterranean	30.37	771.4	57	13.9	63	nne.			1		5		nne.					d. clouds.
H. M. S. Alecto, N. 5° 05, W. 1° 13′	29.85	758.2	85	29.4		se.			1		0					3	ssw.	misty.
H. M. Dockyard, Bermuda, Altantic	30.18	766.6				ene.			2		4		sse.					d. clouds.
H. M. S. Himalaya, N. 36° 39′, W. 1° 00′	30.12	765.0	65	18.3		ene.			2		1		wsw.			1	ene.	blue sky.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.16	766.1	61.5	16.4	86	ssw.			2		10							raining.
H. P. M. S. Douro, St. Thomas Id, Gulf of Guinea, Africa	29.86	758.4	87.8	31.0	76	sse.			3		8		se.	0	0	3	se.	d. clouds.
S. S. British Crown, N. 50° 18′, W. 37° 31′ †	28.99	736.3	42	5.6		sse.			6		10			6 h'r	6 h'r	r'gh	con.	raining.
S. S. Ohio, Liverpool, Eng			38	3.3	90	e.			3		10		e.	0	0			overcast.
S. S. Pennsylvania, Liverpool, Eng*	30.37	771.4	39	3.9	100	se.			5		10		sw.	1 h'r	1 h'r			dense mist.
S. S. Devonia, N. 52° 58′, W. 29° 25′ †	29.67	753.6	49	9.4		ese.			4		9		se.	2 h'r	2 h'r	mod.	sw.	cloudy.
S. S. Bohemia, N. 48° 59′, W. 16° 10′ *†	30.18	766.6				var.			6–10		9		se.	2 h'r	2 h'r	r'gh	ese.	stormy.
S. S. Frisia, N. 50° 00′ W. 4° 40′	30.22	767.6	51	10.6		e.			6		10		e.	0	0	mod.	e.	overcast.
S. S. Rugia, N. 40° 43′, W. 68° 48′	30.12	765.0	44	6.7		ne.			5		10		ne	0	0	4	ne	overcast.
S. S. Hevelius, Madeira Id, Atlantic *†	29.80	756.9	70	21.1		sw.			6		7		sw.	6 h'r	6 h'r			showery.
S. S. Archimede, N. 37° 53′, W. 65° 28′ †	30.14	765.5	64	17.8		ese.			4		7		ese.	3 h'r	3 h'r	sm'h	sse.	cloudy.
S. S. Erin, N. 49° 40′, W. 6° 41′			47	8.3		e.			4		8		se.	0	0	sm'h		fine.
S. S Helvetia, N. 40° 53′ W. 62° 17′	30.16	766.1	46	7.8	92	nne.			4		10			0	0	mod.	ne.	cloudy.
S. S. Waesland, Antwerp, Belgium	30.34	770.6	35	1.7		e.			4		0			0	0			clear.
S. S. P. Caland, N. 42° 01′, W. 61° 32′			44.2	6.8	64	e.			4		4		e.			3	e.	squally.
S. S. W. A. Scholten, Rotterdam, Netherlands*	30.32	770.1	29.3	—1.5	100	se.			1		0			0	0			clear.
S. S. State of Nevada, N. 42° 25′. W 60° 25′ *†	30.22	767.6	33	0.6		ne.			3		5		e.	0	0	light	nr.w.	fine.
S. S. Saxon, Boston, Mass †	30.19	766.8	29	— 1.7		n			1		10							snowing.
S. S. Celtic, N. 43° 06′ W. 45° 40′ *†	29.74	755.4	56	13.3		n.			5		10		nw.	snow	snow	mod.	n.	snowy.
S. S. Antonio Lopez, Cadiz, Spain	30.10	764.5	57	13.9	90	ese.			4		10			6 h'r	6 h'r			cloudy.
Schr. Adda Doane, Savannah, Ga†	30.03	762.7				e.			1		8		e.	2 h'r	3 h'r			cloudy.
H. M. S. Opal, mouth of Gaboon river, Guinea	29.89	759.2	81	27.2	87	ssw.			1		0					sm'h		blue sky.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
										Amount and kind.		Direction.						
						Direction.	Velocity		Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Clotilde, N. 23° 36′, W. 93° 07′†	30.03	762.7	77	25.0		s.			4		10		s.	0	0	sm'h	se.	cloudy.
Bk. Celestina, Cadiz, Spain						ese.			5		10		e;s.	18 h'r	18 h'r			rainy.
Bkt. C. S. Bushnell, N. 37° 06′, W. 10° 00′	29.99	761.7				ssw.			2		5		wsw.	light	light	r'gh	nw.	fair.
S. E. J. Spicer, Liverpool, Eng.*	30.30	769.6	37	2.8	90	ese.			5		10		e.	0	0			hazy.
S. E. B. Sutton, N. 19° 27′, W. 38° 57′ *†	30.06	763.5	76	24.4	77	calm			0		2		n.	0	0	light	n.	clear.
S. Hedwig, N. 38° 20′, W. 11° 31′	29.85	758.2	62.2	16.8	99	s.			5		7		s;sw.	2 h'r	2 h'r	3	s.	hazy.
Bk. Heinrich & Tonio, N. 39° 25′, W. 64° 40′*†	30.21	767.3	59	15.0	82	ene.			5		10		e.	0	0	mod.	ne.	cloudy.
Bk. Hattie G. McFarland, Ship Island Miss						wsw.			4		fg.			4 h'r	4 h'r			stormy.
Bg. John Wesley, N. 26° 05′, W. 76° 55′						ese.			6		2		ese.	4 h'r	4 h'r	mod.	ene.	clear.
Schr. John L. Thomas, Hobbles Cays, C. A†	29.94	760.5	79	26.1	78	ene.			2		1		e.	½h'r	½ h'r			clear.
Bg. L. & W. Armstrong, N. 33° 05′ W. 64° 30′†	30.10	764.5				sw.			5		4		sw.	0	0	sm'h	wsw.	fine.
S. S. Laurel, Key West, Fla†	30.08	764.0	75	23.9		se			2–3		9		se.	sh'rs	sh'rs			threatening.
Bkt. Levanter, N. 15° 44′, W. 33° 14′*	30.05	763.3	74	23.3		ene.			3		8		n.	0	0	long	n.	cloudy.
S. S. Madrid, N. 40° 55′, E. 28° 41′†	30.43	772.9	39	3.9	91	ne.			6		9		ne.	0	0	mod.	ne.	fair.
S. S. P. de Satrastegui, N. 21° 28′, W. 56° 23′	30.15	765.8				ene.			4		3		ene.	0	0	mod.	nne	clear.
Bg. Rising Sun, N. 32° 53′, W. 74° 30′†	30.00	762.0	73	22.8		sw.			5		9		sw.	mod.	mod.	mod	sw.	squally
Bk. Rosalie, N. 14° 45′, W. 37° 08*†	29.94	760.5				ne.			4		4		ne	0	0	long	nne.	fair.
S. Salisbury, N. 37° 04′, E. 12° 02′			60.4	15.8	77	ese.			5		5 k		se.	0	0	sm'h		fair.
S. S. City of Alexandria, Progress Roads, Yucatan*†	29.95	760.7	74	23.3		ese.			2							mod.	nne.	
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Montevideo, Uruguay *	30.16	766.1	66	18.9	74	ene.			2		2		e.					clear.
U. S. S. Pinta, Maranham, Brazil	29.88	758.9	82	27.8	91	e.			1		10		e.					cloudy.
H. M. S. Amethyst, Montevideo, Uruguay	30.10	764.5	65.5	18.6	72	se.			2		3	s.						blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.95	760.7	70	21.1		wnw.			1–3		6	wnw.						squally.
H. M. S. Comus, S. 16° 55′, W. 22° 00′	30.05	763.3	75	23.9	95	ne.			2		5					4	e.	d. clouds.
S. S. Sirius, S. 6° 24′, W. 32° 58′	29.90	759.4				ese.			5		2		ese.	0	0	mod.	ese.	clear.
S. S. Strassburg, S. 27° 17′, W. 45° 06′	30.02	762.5	73.5	23.1	56	se.			3		4		se.	0	0	3	se.	fair.
Bk. Chas. Stewart, S. 18° 30′, W. 26° 00′ *†	30.12	765.0	79	26.1		ene.			5		2		se.	0	0	mod.	e.	clear.
Bg. Daphne, S. 4° 00′, W. 35° 59′*†	29.84	757.9	80	26.7	78	ese.			5		6		se.	1 h'r	1 h'r	chop	var.	smoky.
Bk. Horace Scudder, S. 11° 00′, W. 11° 02′ *†	30.10	764.5	78	25.6		ese.			3		2		ese.	0	0	long	se.	clear.
S. Parker M. Whitmore, S. 28° 14′, W. 24° 20′ *†	30.01	762.2	77	25.0		nnw.			3		3		n.	0	0	sm'h		fair.
S. David Stewart, Pernambuco, Brazil †	29.83	757.7	86	30.0		se.			4		2		se.	0	0			
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.22	767.6	30	— 1.1	67	calm			0		0			0	0			clear.
U. S. S. Adams, Sitka, Alaska			40?	4.4?	56	e.			8		10							cloudy.
U. S. S. Alert, Honolulu, Sandwich Islands	29.92	760.0	71	21.7	71	nne.			1		2							clear.
U. S. S. Essex, Canton, China	30.15	765.8	66	18.9	68	calm			0		10							misty.
U. S. S. Juniata, N. 30° 44′, E. 122° 35′	30.29	769.4	47	8.3	85	e.			1		10		calm	0	0	sm'h		overcast.
U. S. S. Monocacy, Shanghai, China	30.32	770.1	42	5.6	66	sse.			2		10		calm					cloudy.
U. S. S. Ranger, Panama, Panama	29.91	759.7	76	24.4	91	nw.			1		2			0	0			clear.
U. S. S. Richmond, Shanghai, China	30.29	769.4	44	6.7	84	sse.			1		10			0	0			cloudy
H. M. S. Audacious, Hong Kong, China	30.09	764.3	61	16.1	77	e.			2		10	e.						overcast.
H. M. S. Cleopatra, N. 24° 50′, E. 118° 16′	30.10	764.5	57	13.9		ne.			3		9					4	ene.	d. clouds.
H. M. S. Champion, N. 23° 05′, E. 121° 23′			66	18.9	89	ne.			3		1					3	ne.	squally.
H. M. S. Magpie, Penang Island, Malay Peninsula	29.91	759.7	80.7	27.1	70	ne.			1		4							d. clouds.
H. P. M. S. Tamega, Macao, China	30.17	766.2	62.6	17.0	80	ene.			5–6		10			0	0			overcast.
S. S. Oceanic, N. 32° 45′, W. 170° 53′	30.08	764.6	61	16.1		wsw.			5		0			0	0	4	wsw.	clear.
S. S. Oregon, N. 40° 54′, W. 124° 36′			51	10.6	86	e.			2		10		n.			mod.	wsw.	cloudy.
S. S. Alameda, Honolulu, Sandwich Ids			69	20.6	95	ne.			3		0			0	0			clear
S. Henry Failing, N. 1° 52′, W. 121° 23′*†	29.96	761.0	75	23.9	90	se.			3		10		se.	0	0	sm'h	se.	cloudy.
S. S. Ancon, Pigeon Point, Cal†	30.38	771.6	52	11.1	73	nne.			2		0			0	0	sm'h	nne.	clear.
S. S. City of Chester, San Francisco, Cal†	30.48	774.2	46	7.8	77	se.			2		10							
S. S. Orizaba, N. 33° 46′, W. 118° 25′†	30.43	772.9	56	13.3	81	ne.			9		0			0	0	long	sw.	clear.
S. S. Queen of the Pacific, N. 46° 42′, W. 124° 30′†	30.33	770.4	44	6.7	84	e.			6		10		se.	5 h'r	5 h'r	short	se.	foggy.
S. S. State of California, San Francisco, Cal. †	30.47	773.9	47	8.3	92	se.			2		10		se.					cloudy
S. S. Australia, N. 14° 50′, W. 161° 09′			78	25.6		nne.			4		2		nne.	0	0	mod.	ne.	clear.
S. S. City of Pekin, N. 23° 46′, E. 118° 08′			56	13.3	94	ne.			5		10		ne.			small	ne.	cloudy.
S. S. City of Tokio, N. 41° 13′, W. 165° 14′			53	11.7	80	wsw.			5		10		wsw.			r'gh	wsw.	sprinkling.
S. S. Colima, Panama, Panama †	29.92	760.0	78	25.6	73	w.			2		6		w.	0	0			fair.
S. S. Granada, N. 36° 02′, W. 121° 54′ †	30.38	771.6	56	13.3	81	se.			1		0			0	0	light	nnw.	clear.
S. S. George S. Homer, N. 4° 13′, W. 118° 04′						se.			1		1		se.	8 h'r	8 h'r	sm'h	se.	clear.
S. Grecian, N. 6° 23′, W. 119° 44′ †	29.98	761.5	79	26.1	82	se.			3		8		se.	1 h'r	1 h'r	mod.	se,	cloudy.
S. S. Radnorshire, Foo Chow, China						nne.			3		0			0	0	light	nne.	clear.
District No. 4—South Pacific.																		
U. S. S. Hartford, Valparaiso, Chili *	29.80	756.9	60	15.6	100	calm			0		1		w.			sm'h	s;w.	clear.
U. S. S. Iroquois, S. 36° 51′, W. 91° 38′	29.61	752.1	64	17.8	89	nw.			5		10		nw.			r'gh	nw.	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili	29.88	758.9	60	15.6	82	n.			1		0							clear.
U. S. S. Onward, Callao, Peru*†	30.04	763.0	65	18.3	94	nnw.			2		5		nnw			sm'h		fair.
U. S. S. Wachusetts, Callao, Peru.*†	30.30	769.6	65	18.3	94	nw.			1		8		calm			sm'h		cloudy.
H. M. S. Diamond, S. 33° 52′ E. 151° 14′	30.18	766.6	67	19.4	79	s.			2		3	s.						squally.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.90	759.4	58	14.4	82	w.			1		2					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.91	759.7	64	17.8		nne.			3							3	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.38	746.2	54	12.2	93	calm			0		0							blue sky.
H. M. S. Sylvia, Sandy Point, Patagonia	29.66	753.4	53	11.7	86	calm			0		7	ese.						d. clouds.
S. S. City of Sydney, Sydney, N. S. W *†	30.10	764.5	69	20.6	70	se.			1		2 k		se.					clear.
Bk. Alpheus Marshall, S. 14° 06′, E. 171° 46′ *†	29.76	755.9	82	27.8	91	ene.			2		1			light	light	sm'h	ne.	clear.
Bk Godeffroy, S. 39° 15′, W. 89° 22′	29.52	749.8	59.9	15.5	94	nnw.			0		9			12 h'r	12 h'r	r'gh	var.	hazy.
S. St. Francis, S. 52° 42′, W. 85° —′ *†	29.09	738.9	47	8.3	77	ne.			6		10		ne.	10 h'r	10 h'r	h'vy	nw.	rainy.
S. St. David, S. 45° 19′, W. 98° 46′ *†	29.36	745.7	62	16.7	88	sw.			5		5		sw.	2 h'r	2 h'r	h'vy	sw.	fair.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Zanzibar, Africa	29.84	757.9	86	30.0	80	nne.	7	3.1			5		calm	0.17	4.3	sm'h		fair.
U. S. S. Pensacola, S. 14° 51′, E. 84° 38′*	29.85	758.2	81	27.2	66	se.			3		2		se.	0	0	mod.	se.	clear.
H. M. S. Euryalus, Suakin, Egypt	29.97	761.2	80	26.7	87	ne.			3		4	e.						d. clouds.
H. M. S. Orontes, N. 8° 12′, E. 84° 28′	29.87	758.7	80	26.7		wnw.			2		3	w.				3	nnw.	d. clouds.
H. M. S. Tourmaline, Mauritius, Africa	30.02	762.5	80	26.7	?	calm			0							sm'h		d. clouds.
S. S. Galatia, Suez Canal, Egypt†	30.10	764.5	65	18.3	73	nnw.			2		2		nnw.	0	0	sm'h		clear.
S. S. Benalder, N. 9° —′, E. 70° —′*	29.94	760.5	80	26.7	78	e.			2–3		0			0	0	sm'h		clear.
S. S. Port Phillip, Suez Canal, Egypt*	30.10	764.5	65	18.3		calm			0							sm'h		clear.
S. Carondelet, S. 37° 24′, E. 99° 33′*†	30.11	764.8				n.			3		9		n.	2 h'r	2 h'r	sm'h	wnw	cloudy.
S. S. Lepanto, N. 14° 35′, E. 50° 36′			74	23.3		ne.			5		6		e.	0	0	str'g	ene.	fair.

International Chart I. January 1, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 2, 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.20	767.1	61.5	16.4	73	s.			1		0			0	0	clear	Roziere.
Algiers			30.24	768.1	60.8	16.0	59	nw.			2		2			0	0	fair	Aubert.
La Galle			30.28	769.2	58.6	14.8	74	w.			2		3			0	0	pretty fair	Fonfrede.
Tunis			30.31	769.8	55.4	13.0	66	sw.			2		0			0	0	clear	Delord.
Tebessa					48.9	9.4	85	n.			2		3			0	0	pretty fair	Hans.
Geriville					59.0	15.0	58	nw.			1		1			0	0	very fair	Forfert.
Laghouat			30.30	769.7	60.8	16.0	79	sw.			1		1			0	0	very fair	Abraham.
Biskra			30.30	769.7	51.1	10.6	56	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.04	763.0	65.8	18.8	40	s.	8	3.6		3 c; k				0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.75	755.6	29.94	760.5	53	11.7	84	sw.			2		2		sw.	0	0	fine	Com. I. Short, R. N.
Melbourne, Victoria	29.91	759.7	30.00	762.0	55.7	13.2	72	s.	5	2.2			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.96	761.0	30.55	776.0	28.9	— 1.7	54	ne.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.68	753.9	30.51	775.0	19.9	— 6.7	93	ene.	0	0			0			0	0		Dr. Wierzbiski
Eperies	29.57	751.1	30.53	775.5	20.8	— 6.2	79	calm			0		0			0	0		Julius Mikolik.
Gratz	29.21	741.9	30.55	776.0	27.1	— 2.7	69	ne.			1		0			0	0		Andreas Rospini.
Hermannstadt	29.02	737.2	30.59	777.0	20.8	— 6.2	100	se.			1		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.99	736.3	30.42	772.7	27.9	— 2.3	89	calm			0		0			0	0	clear	The Staff.
Lemberg	29.45	747.9	30.51	775.0	27.5	— 2.5	58	se			1		0			0	0		Dr. T. Stanecki.
Pola	30.29	769.4	30.41	772.3	43.9	6.6	71	nw.			4		0			0	0		I. R. Hydrographic Office.
Szathmar	29.99	761.8	30.50	774.6	25.7	— 3.5	74	e.			2		0			0	0		Joseph Midlinsky, S. J
Szegedin	30.22	767.6	30.52	775.3	23.9	— 4.4	95	calm			0		10			0	0	foggy	Karl Stancel.
Trieste	30.35	771.0	30.45	773.5	44.2	6.8	26	e.			2		0			0	0		Royal Academy.
Vienna	29.71	754.6	30.47	774.0	29.8	— 1.2	84	se.			1		0			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon					32.0	0.0	100	ne.			2		0			0	0		
Brussels	30.01	762.2	30.22	767.5	38.5	3.6	82	sse.			1	8		ssw.		0	0		
Furnes																0	0.		
Maeseyck	30.20	767.0	30.32	770.2	36.9	2.7		e.			1		10			0	0	dense fog	
British.																			
Aberdeen	30.00	762.0	30.10	764.5	37.6	3.1	91	s.	7	3.1			10			0.025	0.6	raining	W. Roswell.
Bidston, Liverpool Obs'y			30.09	764.3	35.2	1.8	95	se.	3	1.3			10					overcast	John Hartnup.
Bolton, Sharples	29.55	750.6	30.10	764.5	34.6	1.4	90	se.					10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.09	754.1	30.09	764.3	36.5	2.5	91	se.			3		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W. I	29.98	761.5	30.01	762.2	81	27.2	66	ne.			2		2					blue sky	Corp'l W. I. Cull, A. H. C.
Cardington	30.02	762.5	30.14	765.5	38.0	3.3	92	se.			0.6		10			blank	blank	overcast	John McLaren.
Chatham, School M. E.	29.94	760.5	30.12	765.0	39.9	4.4	96	e.			1		9					misty	Corpl. G. A. Pickles, R. E.
Falmouth, Observatory	29.72	754.9	29.96	761.0	47.9	8.8	85	ese.			4		10					overcast	The Staff.
Fort Napier, Natal	27.50	698.5	29.81	757.2	72.8	22.7	72	se.			1		10					overcast	Corp'l C. Stares, A. H. C.
Freetown, Sierra Leone	29.60	751.8	29.84	757.9	86	30.0	65	s.			1		1					d. clouds	J. W. Smith.
Galway, Queen's College	29.91	759.7	29.95	760.7	40	4.4	91	e.			3		8			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.18	766.6	30.24	768.1	62.0	16.7	94	e.			2		10					gloomy	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	29.92	760.0	30.10	764.5	39.9	4.4	96	ese.			1		10					overcast	The Staff.
Guernsey	29.71	754.6	30.01	762.2	47.0	8.3	92	sse.			1		10					overcast	A. Collenette, F. R. M. S.
Kew, Observatory	30.07	763.8	30.11	764.8	39.8	4.3	88	e.	7	3.1			10					misty	The Staff.
Leicester, Museum	29.84	757.9	30.11	764.8	37.0	2.8	95	se.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.23	767.8	30.30	769.6	57.2	14.0	75	se.			2		7			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	29.99	761.7	30.03	762.7	73.0	22.8	?	se.			1		5					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.86	758.4	30.00	764.3	38.1	3.4	96	ene.			1		10					overcast	The Staff.
Plymouth	29.90	759.4	29.97	761.2	45.2	7.3	92	e.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.99	761.7	30.09	764.3	39	3.9	92						5					showery	Rev. C. Clouston, L. L. D
Scutari Cemetery, Turkey	30.22	767.6	30.28	769.1	43.4	6.3	85	nne.			2		10					gloomy	W. H. Lyne
Sheffield	29.82	757.4	30.12	765.0	36.4	2.4	92	calm			0		10			0.38	9.7	overcast	W. F. Cooper.
Silloth Rectory	30.07	763.8	30.10	764.5	35.3	1.8	97	e.			1		10			0.160	4.1	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.11	764.8	34.1	1.2	91	ne.	4	1.8			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					40.0	4.4	98	se.			0.5		10					overcast	Rev. C. H. Griffiths, F. M. S
Valencia, Observatory	29.81	757.2	29.83	757.7	45.6	7.6	75	ese.	22	9.8			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.90	759.4	30.30	769.6	55.8	13.2	73	e.	4.3	1.9		10 ck	0	w.		0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.27	768.8	30.31	769.9	5.0	—15.0		calm	0	0			10 n			inap	inap.	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.21	767.3	30.26	768.6	18	— 7.8	97	ne.	2	0.9			10 s		calm	0.050	1.3	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.23	767.8	30.30	769.6	13	—10.6	100	ne.	5	2.2			10 n		ne.	0.01	0.3	cloudy	G. A. Blair.
Cornwall, Ontario	29.43	747.5	29.64	752.8	14.0	—10.0	93	e.			6		10 n			0.100	2.5	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.27	768.8	30.32	770.1	0.0	—17.8		calm			0	0	0			0	0	hazy	H. A. Johnson.
Father Point, Quebec*	30.23	767.8	30.25	768.3	6	—14.4	76	ne.	8	3.6		8 cs	0	calm		0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.23	742.4	30.20	767.1	—17	—27.2	44	sw.	3	1.3			10 n			0	0	fair	James Stewart.
Fredericton, N. B.	30.15	765.8	30.22	767.6	16.2	— 8.8	97	e.	5	2.2			10 s			0.050	1.3	overcast	Prof. Thos. Harrison.
Grand Manan, N. B.	30.04	763.0	30.10	764.5	29	— 1.7	80	e.	29	13.0			10 n					light snow	J. Chipman Seeley
Granton, Ontario	28.18	715.8	29.35	745.5	26.2	— 3.2	98	s.	9	4.0			10 n			0.20	5.0	snowing	Jas. Grant.
Halifax, N. S*	30.06	763.5	30.19	766.8	25	— 3.9	88	n.	12	5.4			10 s			0	0	cloudy	A. Allison.
Hamilton, Ontario	29.17	740.9	29.60	751.8	20.2	— 6.6	85	sw.			3		10 n			0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.22	742.2	29.58	751.3	15	— 9.4	87	e.	16	7.2			10 n		e.	0.25	6.3	light snow	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.23	767.8	30.27	768.8	26.0	— 3.3	97	e.			1		10 n			0	0	overcast	C. H. Rigby.
London, Ontario	28.46	722.9	29.39	746.5	27.3	— 2.6	94	e.			4		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T.	28.06	712.7	30.71	780.0	—10	—23.3	90	s.	2	0.9		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	28.01	711.4	30.22	767.6	—16	—26.7	100	nw.	25	11.2		hz	0			0.03	0.8	hazy	Rev. J. M. Wellwood
Montreal, Quebec*	29.65	753.1	29.87	758.7	17	— 8.3	91	e.	12	5.4			10 n			0.14	3.6	heavy snow	C. H. McLeod, C. E.
Ottawa, Ontario	29.46	748.3	29.69	754.1	16.1	— 8.8	89	ne.					10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.73	755.1	30.46	773.7	16	— 8.9	83	e.	13	5.8			10 n		n.	0.03	0.8	light snow	Rev. R. Mosley.
Peterboro, Ontario	28.69	728.7	29.46	748.3	18.5	— 7.5	80	sw.			1		10 kn			0.04	1.0	snowing	Wm. O'Connor, M.A.
Port Arthur	29.26	743.2	30.06	763.5	—10	—23.3	78	nw.	6	2.7		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	28.68	728.5	29.39	746.5	29	— 1.7	89	sw.	22	9.8		10 c	0	sw.		0.29	7.4	cloudy	A. Morgan.
Port Stanley, Ontario	28.75	730.2	29.41	747.0	29	— 1.7	84	sw.	40	17.9			8 n		sw.	0.03	0.8	cloudy	M. Payne.
Qu Appelle, N. W. T	27.78	705.6	30.35	770.9	— 7	—21.7		nw.	20	8.9			10 n		calm			light snow	Leslie Gordon.
Quebec, Quebec*	29.65	753.1	30.04	763.0	16	— 8.9	96	n.	20	8.9			10 s		ne.	0.55	14.0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.16	740.7	29.66	753.4	11	—11.7	80	ne.	25	11.2			10 n			inap.	inap.	light snow	W. H. McIntyre.
St. Andrews, N. B	30.04	763.0	30.09	764.3	29	— 1.7	88	e.	7	3.1			10 n			0.27	6.9	light snow	
St. John, N. B	30.01	762.2	30.16	766.1	22.3	— 5.4	95	ne.	8	3.6			10 n			0.110	2.8	overcast	G. Hutchinson.
Saint John's, N. F	29.90	759.4	30.17	766.3	17	— 8.3	100	n.			3	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F																			The Commandant.
Saugeen, Ontario*	28.60	726.4	29.35	745.5	17	— 8.3	96	e.	29	13.0			10 s			0.02	0.5	light snow	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Canadian.—Continued.																			
Stratford, Ontario	28.03	711.9	29.35	745.5	23.1	— 4.9	70	se.			3		10 n					snowing	W. Mc Bride, M. A.
Sydney, C. B*	30.23	767.8	30.29	769.4	15	— 9.4	100	e.	1	0.4		8 c	0			0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.03	737.3	29.42	747.3	30	— 1.1	100	ne.	20	8.9			10 n			0.32	8.1	heavy snow	Magnetic Observatory.
Woodstock, Ontario	28.42	721.9	29.51	749.5	27.9	— 2.3	81	se.	24	10.7			10 ks			0.20	5.1	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.95	760.7	30.02	762.5	26	— 3.3	84	e.	16	7.2			10			0.09	2.3	light snow	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.00	762.0	30.03	762.7	69.5	20.8	82	sw.				0	5 n			0.120	3.0	cloudy	I. Garfelt.
Cape Town, The Castle	30.00	762.0			71.0	21.7	46	se.				0	2 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.91	708.9			88	31.1	32									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.93	760.2	30.01	762.2	61.7	16.5	95	n.			1	10	0					cloudy	Samuel Redolez.
Iquique	29.99	761.8	30.02	762.5	70.9	21.6	64	sw.			3							cloudy	Rafael Moreno.
Niebla	29.40	746.7	29.50	749.4	62.2	16.8	83	n.			1	8	8		nw.	0	0	misty	Federico Köhling.
Punta Caldera	29.90	759.4	29.98	761.6	64.0	17.8	74	sw.			2	7 cs	0	sw.				fair	Manuel Tobar.
Punta Corona	30.05	763.2	30.23	767.9				w.			1	0	0			0	0	hazy	Francisco Alvarado.
Valparaiso	29.80	757.0	29.94	760.5	62.2	16.8	81	n.				10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.21	767.3	30.23	767.9	41.7	5.4	91	e.	5.6	2.5			0			0.004	0.1		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.28	769.2	30.33	770.4	35.6	2.0	80	sse.	11	5			0						Oversergent Fischer.
Fanöe	30.24	768.2	30.26	768.7	28.6	— 1.9	82	sse.			2		1						Overloerer Lauridsen.
Godthaab, Greenland	30.14	765.5	30.18	766.6	1.4	—17.0	95	ne.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	30.17	766.4	30.22	767.5	32.4	0.2	90	ne.			7		10						A. O. Thoriacius.
Thorshavn	30.13	765.2	30.15	765.8	39.6	4.2	96	calm	0	0			10					raining	Overloerer Bergh.
Vestervig	30.11	764.8	30.21	767.2	30.4	— 0.9	96	se.			4		6						Loerer Oesterbol
Egyptian.																			
Cairo	29.97	761.3			62.6	17		ne.	4.9	2.2			10 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.66	753.4	30.28	769.2	54.3	12.4	83	se.			2		k		s.	0	0		M. Labroue, Director.
Alençon, Normal School	29.90	759.4	30.45	773.4	48.9	9.4	97	ne.			1		10		sw.	0	0	covered	M Nicot, Director.
Arras, Normal School			30.23	767.9	36.5	2.5	94	e.			1		10			0.020	0.5	covered	M. Ungerer, Director.
Avignon, Normal School	30.28	769.2	30.36	771.2	50.7	10.4	60	e.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.66	753.3	30.23	767.8	46.0	7.8	83	sse.			1		8		nw.	0.094	2.4	very cloudy	M. Saillard, Director
Beauvais, Normal School	29.91	759.6	30.18	766.6	44.1	6.7	79	e.			1		8		sw.	0	0	very cloudy	M. Frère Eugène Marlé.
Besançon, Normal School	29.34	745.1	30.26	768.5	44.6	7	71	nw.			1		1		ne.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.84	757.8	30.10	764.5	53.4	11.9	78	se.			2		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.66	753.4	30.23	767.8	47.3	8.5	97	ese.			1	c		e.		0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.76	755.9	30.00	762.1	49.3	9.6	95	se.			2		10		se.	0	0		M. de Kermarrec, Dir.
Caen, Normal School	30.04	762.9	30.11	764.8	46.4	8	91	sw.			1		5		sw.	0.063	1.6	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.91	759.7	30.32	770.1	41.5	5.3	75	ssw.			1		5			0	0	cloudy	M. Judot, Director.
Charleville, Normal School	29.72	754.8	30.24	768.0	39.4	4.1	76	e.			1		1 k		sw.	0	0	clear	M. Noël, Director.
Clermont-Ferrand Obs'y	28.84	732.4	30.22	767.5	49.3	9.6	66	s.			1		10			0	0		M. Alluard, Director.
Cluny, Normal School	29.40	746.8	30.20	767.0	45.7	7.6	82	s.			1		9			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.39	746.6	30.29	769.3	39.2	4	80	e.			1	cs	n	e.	e.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.79	705.9	30.43	772.8	39.7	4.3	62	calm			0		3 k			0	0		M. Jarach, Director.
Grénsque, du Rhone	29.22	742.2	30.38	771.6	48.2	9	65	se.			2		9		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.58	751.3	30.38	771.7	38.1	3.4	83	ene.			2		n			0	0		M. Ablard, Director.
Guéret, Normal School	28.54	725.0	30.14	765.6	50.7	10.4	58	sw.			1		10 kn		ne.	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.53	750.1	30.10	764.4	59.9	15.5	60	ne.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.93	760.1	30.03	762.7	50.9	10.5	75	se.			2		10		s.	0.063	1.6	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.21	741.9	30.30	769.5	44.6	7.0	69	sse.			2		10 n		sw.	0	0	covered	M. André, Director.
Mans, Normal School	29.82	757.5	30.13	765.4	49.5	9.7		s.			3		kn		w.	0	0		M. Richard, Director
Marseille, Observatory	30.07	763.8	30.35	770.8	52.5	11.4	47	ese.			1		10		wnw.	0	0		M. Stephan, Director.
Montlouis	25.06	636.4	29.90	759.4	41.4	5.2	66	w.	11.2	5.0			5		wsw.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.19	766.9	30.31	769.8	43.5	6.4	97	e.			2		10		se.	1.079	27.4	light rain	M. Galzin, Director.
Nancy, Normal School	29.60	751.7	30.41	772.3	38.1	3.4	87	ne.			1					0	0	foggy	M. Hasse, Director.
Nantes, Observatory	29.93	760.2	30.10	764.4	53.6	12.0	71	sse.			2-3	ck	9 k		w.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.11	764.9	30.23	767.8	55.9	13.3	81	s.	9.4	4.2			9		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.27	540.3			29.7	— 1.3		w.			2		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.24	742.8	30.35	771.0	41.4	5.2	75	s.			1		10		s.	0.295	7.5	snowing	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.26	641.5			35.2	1.8	84	s.			2		8			0	0	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.08	763.9	30.11	764.7	54.5	12.5	71	s.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.85	758.2	30.05	763.3	51.4	10.8	85	e.			2		5		e.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.03	712.0	30.22	767.7	45.7	7.6		se.			6		5		nw.	0	0	fair	M. Seger, Director.
Rouen, Normal School	30.10	764.6	30.15	765.8	44.2	6.8	97	sse.			1		5		sse.	0	0	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	30.03	762.7	30.19	766.9	46.0	7.8	70	s.			1		10		sw.	0	0	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.45	748.1	30.18	766.6	55.4	13.0	74	sse.			4		2	se.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.95	760.8	30.13	765.3	51.1	10.6	76	nne.			1		2	sw.	sw.	0.035	0.9	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.67	753.6	30.16	766.1	44.2	6.8	77	s.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.94	760.4	30.09	764.2	59.5	15.3	61	s.	5.8	2.6		ck	9 k	s.		0	0		M. Cartier, Director.
German.																			
Ansbach	28.89	733.8	30.45	773.3	27.0	— 2.8	93	s.			2		10	s.		0	0		Prof. Jnedt.
Bamberg	29.48	748.8	30.33	770.4	27.5	— 2.5	82	calm			0		10			0	0		Prof. Dr. Hoh.
Berlin	30.22	767.5	30.38	771.6	34.7	1.5	71	se.			1		0			0	0		Meteorological Institute
Breslau	29.90	759.4	30.44	773.1	30.7	— 0.7	86	ese.			2		0			0	0	misty	Royal University Obs'y
Carlsruhe	29.89	759.1	30.37	771.4	34.9	1.6	76	e.			1		5	s.		0	0		Albert Senz.
Cassel	29.60	751.8	30.31	769.9	29.5	— 1.4	86	s.			4		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.01	762.2	30.39	771.9	27.0	— 2.8	92	e.			1		10			0	0		Physical Society.
Friedrichshafen	28.91	734.2	30.40	772.2	33.1	0.6	89	ne.			1		10	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.22	767.6	30.31	769.9	29.3	— 1.5	88	ese.			2		0			0	0	hazy	E. Preller.
Kiel	30.27	768.9	30.29	769.3	30.6	— 0.8	92	calm			0		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.93	760.1	30.37	771.4	33.1	0.6	90	s.			2		0			0	0		H. Leppig, Asst.
Magdeburg	30.13	765.2	30.33	770.4	32.7	0.4	82	se.			1		0			0	0		Weather Observatory.
Memel	30.36	771.1	30.41	772.3	35.6	2.0	93	nw.			4		10 k						Issermann.
Munich	28.49	723.6	30.37	771.5	25.9	— 3.4	92	n.			1		5			0	0		Central Station.
Neufahrwasser	30.43	772.8	30.44	773.2	30.9	— 0.6	86	se.			1		1			0	0		A. Lothes.
Neustadt, Palatinate	29.84	757.8	30.37	771.3	30.4	— 0.9	100	sw.			1		10			0	0		Dicknether.
Stuttgart	29.38	746.2	30.32	770.2	32.9	0.5	87	s.			1		6	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.29	769.4	30.32	770.0	30.4	— 0.9	84	se.			2		3 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.88	759.0	30.28	769.1	46.8	8.2		n.			1.0	0	6 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.99	761.8	30.05	763.2	72.8	22.7	43	wsw.	11.0	4.9			0			0	0	blue sky	
Deesa	29.54	750.2	30.02	762.5	73.9	23.3	23	nw.	6.0	2.7			0			0	0	blue sky	
Bombay	29.93	760.3	29.97	761.2	75.3	24.1	67	nw.	10.0	4.5			0			0	0	blue sky	
Poona, Yarrowda	28.10	713.6	29.97	761.1	76.8	24.9	18	ne.	6.0	2.7			0			0	0	blue sky	
Belgaum	27.39	695.7	29.93	760.3	75.5	24.2	30	calm	0	0			0			0	0	blue sky	
Lahore	29.26	743.1	30.04	763.0	59.6	15.3	62	calm	0	0			3			0	0	d. clouds	
Roorkee	29.09	738.8	30.02	762.5	63.8	17.7	53	w.					1			0	0	blue sky	
Agra	29.48	748.9	30.07	763.8	66.8	19.3	40	nw.	2.0	0.9			3		w.	0	0	d. clouds	
Nagpur	28.95	735.4	30.02	762.6	68.2	20.1	38	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Amount and kind. Lower. 0–10	Direction. Upper. From.	Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.65	727.7	30.05	763.3	65.8	18.8	42	calm	0.4	0.2			1			0	0	blue sky	
Lucknow	29.63	752.7	30.03	762.7	61.3	16.3	53	calm	0	0			0			0	0	blue sky	
Allahabad	29.72	754.8	30.04	763.1	60.8	16.0	66	calm	0	0			0			0	0	blue sky	
Patna	29.84	758.0	30.04	762.9	64.6	18.1	58	w.	3.6	1.6			0			0	0	blue sky	
Hazaribagh	27.97	710.4	30.06	763.4	60.7	15.9	48	n.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.92	760.0	30.01	762.2	69.4	20.8	73	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	30.01	762.2	30.03	762.8	63.9	17.7	68	nnw.	4.0	1.8			0			0	0	blue sky	
Dhubri	29.90	759.4	30.02	762.5	65.0	18.3	65	calm	0	0			0			0	0	blue sky	
Chittagong	29.93	760.2	30.02	762.5	68.6	20.3	61	calm	1.9	0.8			3			0	0	d. clouds	
Sibsagar	29.70	754.3	30.05	763.4	56.7	13.7	83	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.58	725.9	30.08	764.0	63.5	17.5	51	nnw.	0.3	0.1			0			0	0	blue sky	
Zanzibar	29.89	759.1	29.91	759.6	86.7	30.4	52	ese.	7.9	3.5			4	nne.	w.	0	0	d. clouds	
Bellary	28.43	722.1			80.5	26.9	31	ne.					0			0	0	blue sky	
Trichinopoly	29.66	753.4			84.2	29.0	56	w.	0.2	0.04			3			0	0	d. clouds	
ITALIAN.																			
Udine	29.98	761.5	30.41	772.3	43.3	6.3	41	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.94	760.4	30.48	774.2	38.1	3.4	66	nw.	1.8	0.8			6	w.		0	0		Prof. G. V. Schiapparelli
Padua	30.33	770.4	30.45	773.3	39.0	3.9	53	nw.	4.3	1.9			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.51	749.6	30.47	773.8	35.6	2.0	79	n.	0.7	0.3			5	n.		0	0		Prof. F. F. Denza.
Genoa	30.22	767.5	30.41	772.5	46.4	8.0	41	ne.	1.8	0.8			2	s.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.41	772.3	30.46	773.6	40.3	4.6	65	nnw.	13.0	5.8			4	s.		0	0		Prof. Luigi Guidi.
Florence	30.10	764.4	30.36	771.1	45.0	7.2	42	ne.			2		2			0	0		Prof. Costantino Pittei'
Leghorn	30.25	768.3	30.34	770.5	44.2	6.8	48	ene.	12.5	5.6			9			0	0		Prof. P. Monte.
Rome	30.18	766.5	30.36	771.1	49.6	9.8	40	n.	1.3	0.6			1			0	0		Prof. P. Tacchini.
Lecce	30.04	763.1	30.30	769.7	49.3	9.6	59	n.	11.2	5.0			1			0	0		Prof. C. de Giorgi.
Cosenza	29.46	748.2	30.38	771.6	44.6	7.0	71	wnw.	2.5	1.1			2	w.		0	0		Prof. D. Conti.
Cagliari	30.10	764.5	30.30	769.5	54.0	12.2	63	sw.			2		7			0	0		Prof. A. Pacinotti.
Palermo	30.04	763.0	30.30	769.5	54.3	12.4	61	calm	0	0			10			0.020	0.5		Prof. G. Cacciatore.
Syracuse	30.27	768.8	30.32	770.0	53.2	11.8	74	nne.	9.4	4.2			10	nne.		0.728	18.5		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.81	757.2	30.35	771.0	48.0	8.9	63	n.	0	0			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.22	767.7	30.25	768.3	28.0	— 2.2	95	ne.			2	0	8 ks		w.	0.130	3.3	cloudy	H. Hattori.
Awomori	30.18	766.6	30.22	767.6	27.8	— 2.3	94	w.	4.2	1.9			10 s			0.274	7.0	overcast	K. Ogawa.
Hakodate	30.21	767.4	30.22	767.7	18.8	— 7.3	83	n.	5.4	2.4		0	1 s			0	0	clear	Y. Souma.
Hamamatsu	30.18	766.6	30.28	769.1	36.2	2.3	67	nw.			2	2 cs	0	w.		0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.34	770.6	30.36	771.0	37.1	2.8	78	nne.	5.4	2.4		4ck;cs	0	nw.		0	0	clear	Y. Okamoto.
Kagoshima	30.34	770.7	30.36	771.0	36.9	3.8	78	n.			2	0	0			0	0	clear	
Kanazawa	30.17	766.2	30.27	769.0	37.6	3.1	82	sse.	7.7	3.4			10 n			0.500	12.7	raining	S. Endo.
Kioto	30.15	765.7	30.32	770.1	32.1	0.1	90	calm	0	0			10 s			0	0	cloudy	M. Tojima.
Kochi	30.32	770.0	30.34	770.5	34.0	1.1	81	n.	3.2	1.4		0	0			0	0	clear	K. Kusunose.
Miasaka	30.33	770.4	30.36	771.1	36.0	2.2	54	nnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	30.13	765.3	30.24	768.1	27.4	— 2.6	76	wsw.	4.1	1.8		0	1 s			0	0	clear	N. Homo & K. Suwa.
Nagasaki, I. M. Obs'y	30.17	766.3	30.39	771.9	36.4	2.4	85	calm	0	0		0	0			0	0	clear	
Nemuro	30.11	764.8	30.16	766.1	22.9	— 5.1	52	sw.	15.0	6.7		0	0			0	0	clear	A Shibuya.
Niigata	30.23	767.8	30.27	768.8	30.0	— 1.1	93	se.	1.5	0.6			10 s			0.130	3.3	overcast	Satoo & Tomikawa.
Nobiru	30.25	768.4	30.27	768.8	30.0	— 1.1	85	sse.	1.9	0.8		0	1 ks			0	0	clear	Yoshino & Midzushina.
Numadzu	30.23	767.8	30.26	768.7	37.0	2.8	75	e.			4	0	5 s			0	0	fair	T. Ohgi.
Osaka	30.31	769.8	30.32	770.2	34.7	1.5	74	s.	2.7	1.2		1 cs	9 s			0	0	cloudy	H. Omura.
Sakai	30.30	769.6	30.31	769.8	38.9	3.8	85	w.			2		10 ks		w.	0.051	1.3	cloudy	Yamawchi & Sakamoto.
Sapporo	30.16	766.1	30.22	767.7	22.9	— 5.1	100	calm	0	0			10 n			0.210	5.3	snowing	S. Kimura.
Shimonoseki	30.22	767.6	30.37	771.3	41.0	5.1	76	ene.			1		10 ks			0	0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.22	767.5	30.30	769.6	30.0	— 1.1	67	ne.	4.4	2.0		0	5s;ks		wsw.	0	0	fair	The Staff.
Wakayama	30.27	768.9	30.33	770.3	32.5	0.3	73	calm	0	0		0	0			0	0	clear	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.81	757.2	30.00	762.0	82.5	28.1	66	ene.	12.5	5.6		2c;cs	2 k			0.03	0.8	fair	The Staff.
MEXICAN.																			
Leon	24.35	618.5	30.14	765.5	49.3	9.6	83	sse.	0.9	0.4			9 n			0.268	6.8	cloudy	M. Leal & M. Pina.
Mazatlan	29.80	756.9	30.06	763.6	65.0	18.3	26	nne.	1.0	0.8		1 cs	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.21	767.2	30.21	767.2	37.6	3.1		sse.			3					0	0		
Groningen	30.25	768.4	30.31	769.8	29.3	— 1.5		s.			1					0	0		
Helder	30.21	767.2	30.21	767.2	33.1	0.6		se.			2					0	0		
Hellevoetsluis	30.22	767.6	30.22	767.6	41.7	5.4	85	ene.			1					0	0		
Utrecht	30.19	766.9	30.25	768.3	35.1	1.7	84	ese.			2		6			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	759.0			79.2	26.2	85	nne.	0	0			6			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.17	766.3	30.23	767.9	36.0	2.2	89	sse.	7	3			9			0	0		
Bronn	30.20	767.0	30.24	768.0	31.6	— 0.2	70	nne.			2		10			0	0		
Christiania	30.15	765.9	30.31	769.9	25.2	— 3.8	98	ese.	0	0			10			0	0	foggy	
Gjessvær	29.71	754.6	29.73	755.2	21.6	— 5.8		nnw.			7		10			0	0		
Lodingen	30.15	765.9	30.20	767.1	21.4	— 5.9	69	nnw.			1		10			0.004	0.1	snowing	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.92	760.0	30.01	762.2	67.5	19.7	80	wsw.	6.3	2.8			6			0.024	0.6		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.6	30.04	763.1	62.1	16.7	86	ssw.	23.0	10.3			10			0.224	5.7		The Staff.
Ponta Delgada, Azores	29.45	748.0	29.52	749.8	60.8	16.0	62	wnw.	26.6	11.9			3	nne.		0.465	11.8		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.07	763.7	30.11	764.7	72.3	22.4	82	e.			4		10			0	0	foggy	
San Salvador, Congo	28.02	711.8	29.83	757.6	86.0	30.0	55	n.			1		0			0.260	6.6		
Serra da Estrella	25.31	642.8	30.10	764.6	42.8	6.0	100	se.	12.5	5.6			10			1.378	35.0	rain & fog	
RUSSIAN.																			
Akmolinski	28.21	716.6	29.36	745.7	10.9	—11.7	100	sw.	45	20			10 n			0	0		Major K. Lazarew.
Archangel	29.49	749.1	29.51	749.6	17.2	— 8.2	85	nw.	22	10			10			0.047	1.2	light snow	Capt. Sseliwerstow.
Ashurada	30.49	774.5	30.40	772.1	49.6	9.8	73	ene.	13	6		0	6 ks			blank	blank	light clouds	
Astrakhan	30.24	768.1	30.16	766.1	22.3	— 5.4	73	wsw.	13	6		0	0			0	0		Capt. Wisganow.
Baku	30.38	771.6	30.33	770.4	44.6	7.0	72	ssw.	9	4		0	0			0	0		
Barnaul	29.30	744.1	29.83	757.7	13.8	—10.1	92	sw.	45	20			10			0.402	10.2		Meteorological Office.
Bielosersk	29.39	746.4	29.88	759.0	21.0	— 6.1	74	nnw.	11	5		0	2 s			0	0		
Dorpat	29.96	761.0	30.22	767.5	33.1	0.6	100	W.	9	4			10 n			0.008	0.2	foggy	Observatory.
Ekaterinburg	27.47	697.8	28.44	722.4	23.5	— 4.7	90	w.	31	14			10					snowing	Meteorological Obs'y.
Elissawetgrad	29.93	760.3	30.42	772.7	23.9	— 4.5	81	nw.	9	4		0	0			0	0		
Kasan	29.17	741.0	29.45	748.1	23.7	— 4.6	72	wnw.	18	8			8			0	0		Observatory.
Kem	29.80	757.0	29.85	758.3	14.0	—10.0	67	nw.	31	14			0			0	0		
Kertch	30.31	769.8	30.33	770.4	27.9	— 2.3	98	wnw.	4	2		0	2 k			0	0		Lagorio & Sastyres.
Kieff	29.66	753.3	30.33	770.3	32.7	0.4	52	nw.	9	4		0	0			0	0		Observatory.
Kosloy	29.48	748.8	30.01	762.2	30.7	— 0.7	83	wnw.	13	6		0	0			0	0		
Lgov	29.67	753.7	30.30	769.6	23.7	— 4.6	97	wsw.	9	4			10			0	0		R. I. Ssaweljew, Engin'r.
Libau	30.34	770.7	30.37	771.3	34.3	1.3	89	w.	7	3		0	0			0	0		E. Quass.
Lugan	30.04	763.0	30.26	768.5	25.5	— 3.6	67	wsw.	4	2			0			0	0		Meteorological Obs'y.
Moscow	29.51	749.5	30.00	762.1	33.8	1.0	89	w.	9	4		0	7 ks			0.012	0.3		Meteorological Obs'y
Nertschinsk	27.58	700.4	30.23	767.9	—21.5	—29.7	90	calm	0	0			10			0	0		

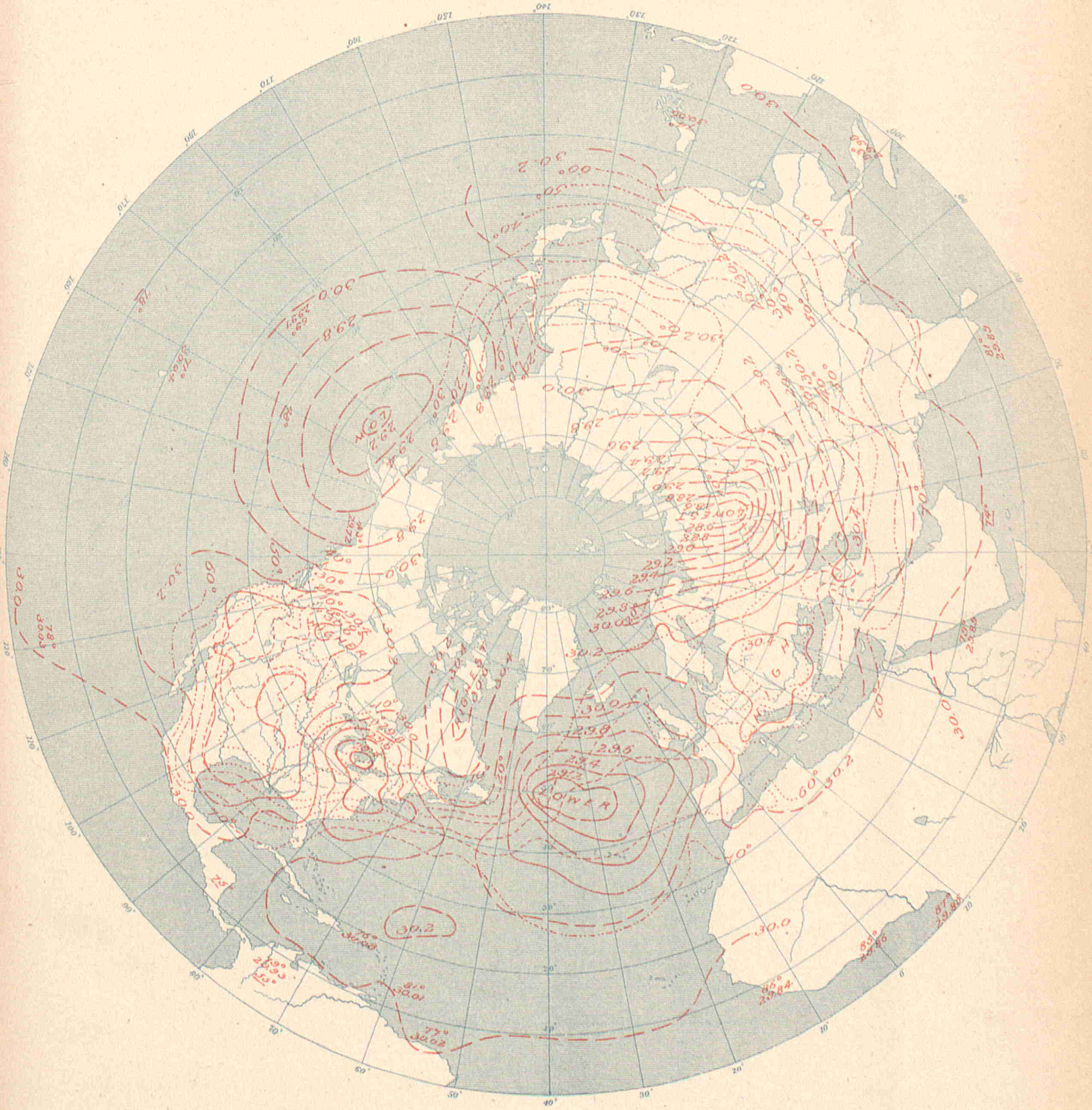
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	30.35	770.8	30.42	772.6	20.5	— 6.4	90	n.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolajewsk-on-the-Amoor	30.16	766.0	30.24	768.2	—20.6	—29.2	74	w.	7	3	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.17	766.2	30.31	769.9	32.4	0.2	76	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	30.05	763.2	30.43	772.8	27.0	— 2.8	66	sw.	2	1	.....	0	3 ks	.....	.....	.....	.....	.....	
Petrozavodsk	29.74	755.3	29.95	760.6	21.7	— 5.7	60	nw.	16	7	.....	0	1 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.92	760 0	30.45	773.5	27.5	— 2.5	81	w.	2	1	.....	0	0	.....	.....	0	0	.....	
Poti	30.23	767.8	30.26	768.6	52.0	11.1	80	nnw.	4	2	.....	0	2 k	.....	.....	0	0	.....	
St. Petersburg	30.06	763.4	30.08	764.0	32.9	0.5	94	wnw.	7	3	.....	cs	2 s	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.85	707.5	30.52	775.1	23.4	— 4.8	98	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	
Semipalatinsk	29.31	744 4	30.03	762.7	7.0	—13.9	91	s.	45	20	.....	.....	10	.....	.....	0.087	2.2	.....	Major Lasarew
Sevastopol	30.20	767.1	30.43	772 9	30.4	— 0.9	84	ne.	11	5	.....	0	0	.....	.....	0	0	.....	
Staroi Bykhov	29.71	754.6	30.30	769.6	27.3	— 2.6	100	wnw.	11	5	.....	.....	10	.....	.....	0	0	.....	
Tashkend, Laboratory	28.67	728.1	30.48	774.3	21.1	— 6.6	45	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	heavy cl'ds.	Torch, A. M
Tiflis	28.93	734.9	30.45	773.4	28.9	— 1.7	90	calm	0	0	.....	0	8 s	.....	.....	inap.	inap.	light clouds	Physical Observatory.
Vernoe	27.57	700.3	30.27	768.8	17.4	— 8.1	56	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	
Viatka	28.65	727.7	29.31	744.5	15.1	— 9.4	87	nw.	27	12	.....	.....	1	.....	.....	0	0	.....	
Vladivostock	30.31	769.9	30.38	771.6	14.9	— 9.5	57	n.	22	10	.....	0	0	.....	.....	0	0	.....	
Warsaw	30.04	763.0	30.49	774.5	28.2	— 2.1	79	calm	0	0	.....	1 c	0	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.45	747 9	29.76	755.8	9.1	—12.7	89	s.	4	2	.....	.....	10	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.38	746.2	29.94	760.5	34.9	1.6	90	wnw.	15	6.7	.....	0	7 s	.....	nw.	inap.	inap.	fair	Prof. S. Fadeieff.
Spanish.																			
Barcelona, Met. Ons'y	30.31	769.9	30.42	772.7	54.7	12.6	96	ne.	.....	.....	.....	.....	.....	.....	.....	0.299	7.6	misty	B. J. Elin.
Bilbao, Met. Obs'y	30.01	762.3	30.07	763.8	59.4	15.2	65	s.	7.4	3.3	.....	2	7	sw.	.....	0	0	almost cov'd	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.17	690.0	30.16	766.0	51.8	11.0	75	s.	11.9	5.3	.....	0	4	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.97	710.3	30.25	768.4	48.2	9.0	96	ne.	4.7	2.1	.....	.....	10	.....	.....	0.358	9.1	rainy	The Staff.
Murcia, Met. Obs'y	30.16	766.0	30.30	769.7	54.1	12.3	89	ssw.	1.6	0.7	.....	4	5	e.	.....	0	0	almost cov'd	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.95	735 4	29.84	758.0	57.4	14.1	87	se.	14.3	6.4	.....	.....	10	.....	.....	0.287	7.3	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.92	760.0	30.99	761.7	69.7	20.9	92	s.	4.0	1.8	.....	1 cs	0	sw.	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.00	762.1	30.06	763.6	74.2	23.4	82	ene.	1.1	0.5	.....	0	s	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.13	765.2	30.23	767.7	62.6	17.0	80	ese.	14.5	6.5	.....	3	3	se.	se.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.98	761.6	30.08	763.9	75.6	24.2	92	e.	2.7	1.2	.....	.....	10 kn	.....	e.	0.205	5.2	raining	Enrique Gaden, Chf Eng
Swedish.																			
Haparanda	30.11	764.9	30.15	765.9	12.6	—10.8	86	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.95	760.6	30.00	761.9	31.6	— 0.2	68	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	30.13	765.3	30.18	766.6	38.8	3.8	77	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	
Stockholm	30.11	764.7	30.28	769.2	30.4	— 0.9	98	wnw.	.....	.....	2	.....	10	.....	.....	0	0	foggy	
Wisby	30.28	769.0	30.34	770.5	34.2	1.2	89	wnw.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.17	766.3	30.26	768.5	26.6	— 3.0	100	wsw.	6.3	2.8	.....	.....	10	.....	sw.	0	0	light fog	H. H. Hildebrandesson
Swiss.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.33	770 4	43.0	6.1	70	n.	21	9.5	.....	.....	10	.....	n.	0.236	6.0	.....	The Observatory.
Valona	.....	.....	30.28	769.2	55.0	12.8	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.07	763 8	62.8	17.1	57	wsw.	.....	.....	1	1 c	3 k	.....	sw.	0	0	.....	F. Nimr, B. A., Dir.
United States.																			
Albany, New York	29.63	752 6	29.72	754.9	30	— 1.1	81	n.	2	0.9	.....	.....	10 n	.....	.....	0.58	14.7	light snow	J. O. Barnes.
Alpena, Michigan	28.71	729.2	29.42	747 3	17.2	— 8.2	83	ne.	16	7.2	.....	.....	10 n	.....	.....	0.77	19.6	heavy snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.27	641.8	30.39	771.9	9.0	—12.8	83	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27 38	695.4	30.42	772.7	— 5.0	—20.6	65	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	F. Newman.
Atlanta, Georgia	28.80	731.5	30.02	762.5	22.0	— 5.6	73	nw.	26	11.6	.....	.....	10 s	.....	nw.	0.18	4.6	cloudy	S. W. Beall.
Atlantic City, New Jersey	29.54	750.3	29.55	750.6	44.0	6.7	100	e.	12	5.4	.....	.....	10 n	.....	e.	0.27	6.9	light rain	B. A. Blundon.
Augusta, Georgia	29.72	754.9	29.92	760.0	41	5.0	48	w.	17	7.6	.....	.....	10 ks	.....	w.	0.12	3.0	cloudy	W. J. Evans.
Baltimore, Maryland	29.47	748.5	29.52	749.8	43	6.1	83	ne.	2	0.9	.....	.....	10 n	.....	n.	0.55	14.0	light rain	Geo. W. Feiger.
Barnegat City, New Jersey	29.57	751.1	29.59	751 6	46.3	7.9	100	se.	22	9.8	.....	.....	10 n	.....	se.	0.40	10.2	heavy rain	F. L. Johnson.
Bennett, Fort, Dakota	28.72	729.5	30.46	773.7	— 5.0	—20.6	81	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.43	696.7	30.41	772.4	—10.5	—23.6	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.38	720.8	30.38	771.6	— 7	—21.7	61	nw.	6	2.7	.....	0	9 s	.....	nw.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.70	754 4	29.73	755.1	39.9	4.4	100	e.	24	10.7	.....	.....	10n; fg	.....	.....	0.56	14.2	light rain	J. T. Elker.
Boise City, Idaho	27.68	703.1	30.01	777.5	6	—14.4	91	w.	2	0.9	.....	0	4 s	.....	.....	0	0	fair	James Kenealy.
Boston, Massachusetts	29.65	753.1	29.82	757.4	26.3	— 3.2	100	e.	22	9.8	.....	.....	10 n	.....	e.	0.40	10.2	light rain	O. B. Cole.
Brownsville, Texas	29.51	749.5	30.57	776.5	27.6	— 2.4	64	nw.	4	1.8	.....	0	4 s	.....	.....	0	0	fair	John McGlone.
Buffalo, New York	28.67	728.2	29.46	748.3	33	0.6	78	sw.	4	1.8	.....	.....	10 n	.....	.....	0.07	1.8	light snow	Wm. Finn.
Buford, Fort, Dakota	28.18	715 8	30.41	772.4	— 8	—22.2	100	w.	14	6.3	.....	0	4 s	.....	.....	0	0	fair	A. Schneider.
Cairo, Illinois	29.76	755.9	30.18	766.6	12.0	—11.1	76	w.	24	10.7	.....	.....	10 s	.....	w.	0.09	2.3	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.02	762.5	30.22	767.6	40.0	4.4	89	se.	24	10.7	.....	.....	10 n	.....	.....	0.09	2.3	light rain	J. H. Young.
Cape Henry, Virginia	29.54	750.3	29.56	750.8	51.0	10.6	93	s.	11	4.9	.....	.....	10 s	.....	.....	0.19	4.8	cloudy	A. K. Alderson.
Cape May, New Jersey	29.48	748.8	29.51	749.5	47.0	8.3	100	se.	20	8.9	.....	.....	fg.	.....	.....	0.05	1.3	dense fog	W. E. Smith.
Cape Mendocino, California	29.61	752.1	30.31	769.9	51	10.6	72	se.	44	19.7	.....	0	9 ks	.....	se.	0	0	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	49.0	9.4	100	nw.	28	12.5	.....	.....	10 s	.....	w.	0.46	11.7	light rain	G. W. Davis.
Charleston, S. Carolina	29.71	754.6	29.77	756.1	57.0	13.9	86	w.	18	8.0	.....	.....	10 s	.....	w.	0.01	0.3	threatening	J. H. Smith.
Charlotte, N. Carolina	28.82	732 0	29.71	754.6	40.5	4.7	78	sw.	16	7.2	.....	.....	10 s	.....	sw.	1.15	29.2	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.19	741.4	30.05	763 3	22.0	— 5.6	87	w.	9	4.0	.....	0	9 ks	.....	nw.	0.08	2.0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.06	611.1	30.33	770.4	13.1	—10.5	53	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	28.86	733.0	29.01	752.1	19.8	— 6.8	73	nw.	12	5.4	.....	.....	10 n	.....	.....	0.39	9.9	light snow	Wm. Norrington.
Chincoteague, Virginia	29.54	750.3	29.56	750.8	48	8.9	100	s.	5	2.2	.....	.....	fg.	.....	.....	0.10	2.5	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.13	739.9	29.82	757.4	23.3	— 4.8	86	w.	16	7.2	.....	.....	10 s	.....	w.	0.27	6.9	cloudy	L. Dunne.
Cleveland, Ohio	28.77	730.7	29.55	750.6	23.7	— 4.6	77	sw.	35	15.6	.....	0	5 ks	.....	sw.	0.11	2.8	fair	W. Line.
Columbus, Ohio	28.78	731.0	29.68	753.9	20.2	— 6.6	75	sw.	30	13.4	.....	.....	10 n	.....	w.	0.40	10.2	light snow	F. T. Williams.
Concho, Fort, Texas	28.46	722.9	30.48	774.2	15.0	— 9.4	100	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. E. King.
Custer, Fort, Montana	27.66	687.3	30.44	773.2	—11	—23.9	74	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Daily.
Davenport, Iowa	29.20	741.7	29.91	759.7	8.7	—12.9	78	nw.	15	6.7	.....	.....	10 s	.....	.....	0.40	10.2	cloudy	R. R. Martin.
Davis, Fort, Texas	25.46	746.7	30.44	773.2	14.3	— 9.6	66	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.67	728.2	30.48	774.2	14.0	—10.0	78	w.	2	0.9	.....	.....	10 s	.....	.....	0.80	20.3	cloudy	H. S. Blandford.
Deadwood, Dakota	25.45	646.4	30.40	772.1	9.0	—12.8	76	w.	3	1.3	.....	0	0	.....	.....	0.02	0.5	clear	G. Kingsbury.
Delaware Breakwater, Del	29.53	750.0	29.55	750.6	40.7	4.8	100	se.	18	8.0	.....	.....	fg	.....	.....	0.01	0.3	dense fog	G. A. Martin.
Denver, Colorado	24.81	630.2	30.33	770.4	24.0	— 4.1	44	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.19	741.4	30.16	766.1	— 8	—22.2	58	n.	12	5.4	.....	0	0	.....	.....	0.10	2.5	clear	F. W. Conrad.
Detroit, Michigan	28.68	728.5	29.44	747 8	29.0	— 1.7	77	sw.	28	12.5	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	N. B. Conger.
Dodge City, Kansas	27.56	700.0	30.31	769.9	13	—10.6	66	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.14	740.1	29.92	760.0	13.2	—10.4	63	nw.	12	5.4	.....	.....	10 s	.....	.....	0.44	11.2	cloudy	J. Harvey Smith
Duluth, Minnesota	29.26	743.2	30.07	763.8	— 2.5	—19.2	77	nw.	22	9.8	.....	0	2 s	.....	nw.	0	0	clear	E. R. Brace.
Eastport, Maine	30.00	762.0	30.07	763 8	26.5	— 3.1	88	ne.	36	16.1	.....	.....	10n; fg	.....	ne.	0.19	4.8	light snow	D. C. Murphy
Elliott, Fort, Texas	27.45	697.2	30.38	771.6	15	— 9.4	76	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.63	676.4	30.51	774.9	15.5	— 9.2	83	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.70	729.0	29.46	748.3	35.0	1.7	89	sw.	10	4.5	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	28.96	735.6	29.68	753 9	13.5	—10.3	72	n.	28	12.5	.....	0	7 ks	.....	n.	0	0	fair	L. M. Pindell.
Fort Smith, Arkansas	29.92	760.0	30.42	772.7	8.0	—13.3	76	nw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	J. B. Campbell.
Galveston, Texas	30.44	773.2	30.48	774.2	28	— 2.2	64	nw.	18	8.0	.....	0	2 s	.....	n.	0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	28.77	730.7	29.48	748.8	16.0	— 8.9	83	n.	21	9.4	.....	.....	10 n	.....	.....	0.82	20.8	light snow	Joseph E. Mueller.
Grant, Fort, Arizona	25.48	647.2	30.38	771.6	19.6	— 6.9	74	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	Chas. A. Rean.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	29.63	752.6	29.64	752.8	62.0	16.7	100	s.	12	5.4			10 s		se.	0	0	threatening.	R. M. Crawford.
Helena, Montana	26.07	662.2	30.45	773.4				n.	1	0.4			10 s			0	0	cloudy	**S. W. Morrison.**
Huron, Dakota	28.84	732.5	30.38	771.6	— 9.8	—23.2	59	nw.	15	6.7		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	28.87	733.3	29.71	754.6	17.0	— 8.3	73	w.	11	4.9			10 n		w.	0.20	5.1	light snow	C. F. R. Wappenhans.
Indianola, Texas	30.49	774.4	30.52	775.2	29 0	— 1.7	70	nw.	9	4.0		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	29.88	758.9	29.93	760.2	57.0	13.9	80	w.	12	5.4			10 s		w.	0.50	12.7	cloudy	J. W. Smith.
Keokuk, Iowa	29.34	745.2	30.04	763.0	2.2	—16.6	83	w.	9	4.0		0	2 s		w.	0.28	7.1	clear	F. Z. Gosewisch.
Key West, Florida	29.94	760.5	29.96	761.0	74	23.3	82	sw.	11	4.9		0	6 k		sw.	inap.	inap.	fair	**A. W. Browne.**
Kittyhawk, North Carolina	29.61	752.1	29.63	752.6	59.7	15.4	100	sw.	21	9.4		0	8 k		sw.	0.08	2.0	cloudy	**Wesley Blake.**
Knoxville, Tennessee	28.83	732.3	29.91	759.7	21	— 6.1	70	w.	20	8.9		4 k	4 s	w.		0.14	3.6	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.13	739.9	29.97	761.2	12	—11.1	80	nw.	18	8.0			10 s			0.01	0.3	cloudy	S. C. Emery
Leavenworth, Kansas	29.34	745.2	30.30	769.6	— 1	—18.3	100	nw.	6	2.7		0	0			0.21	5.3	clear	T. S. Outram.
Lewiston, Idaho	29.69	754.1	30.56	776.2	24.0	— 4.4	73	ne.	1	0.4			10 n			0.24	6.1	light snow	C. E. Butler.
Little Rock, Arkansas	30.00	762.0	30.33	770.4	18.0	— 7.8	84	w	8	3.6		0	0			0	0	clear	**W. U. Simons.**
Los Angeles, California	29.96	761.0	30.36	771.1	46.7	8.2	24	ne.	12	5.4		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.32	744.7	29.91	759.7	19.2	— 7.1	84	sw.	22	9.8			10 s		sw.	0.30	7.6	cloudy	L. M Dey.
Lynchburg, Virginia	28 81	731 8	29.53	750.0	41.0	5.0	92	w.	2	0.9			10 s			0.17	4.3	cloudy	**Jno. Healy.**
Mackinaw City, Michigan	28.87	733.3	29.57	751.1	11.5	—11.4	87	n.	23	10.3			10 s		n.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.66	753.4	29.67	753.6	59.0	15.0	93	sw.	18	8.0		0	9 s		sw.	0.01	0.3	cloudy	William Daly.
Maginnis, Fort, Montana					— 6.8	—21.6	67	nw.	5	2.2		0	0			0.05	1.3	clear	F. Burke.
Marquette, Michigan	29.02	737.1	29.80	756.9	20.0	— 6.7	80	n.	16	7.2			10 s		n.	0.04	1.0	cloudy	J. Gilligan.
Memphis, Tennessee	29.91	759 7	30.27	768.8	11	—11.7	94	w.	8	3.6			10 s		w.	0.02	0.5	cloudy	**D. T. Flannery**
Milwaukee, Wisconsin	28.81	731.8	29.61	752.1	15.2	— 9.3	80	nw.	29	13.0			10 s			0.57	14.5	cloudy	**S. W. Rhode.**
Mobile, Alabama	30.25	768.3	30.29	769.4	24.6	— 4.1	56	n.	9	4.0		7 k	2 s	nw.	nw.	0.02	0.5	cloudy	H. U. Jones.
Montgomery, Alabama	29.97	761.2	30.21	767.3	22	— 5.6	73	w.	17	7.6		0	9 s		w.	0.11	2.8	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.18	741.2	30.28	769.1	—16	—26.7	100	calm	0			0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H	23.38	593.8	30.01	762.2	14.0	—10.0	100	se.	45	20.1			10n; fg		se.	0 41	10.4	light snow	**Edwd. A. Beals.**
Nashville, Tennessee	29.50	749.3	30.11	764.8	20.0	— 6.7	76	nw.	21	9.4			10 ks		w.	0.61	15.5	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.59	751.6	29.71	754.6	32	0.0	100	ne.	11	4.9			10 n		ne.	0.04	1.0	light rain	J. H. Sherman.
New London, Connecticut	29.66	753 4	29.71	754.6	36.0	2.2	100	se.	12	5.4			10 n		se.	0.32	8.1	light rain	J. G. Lynch.
New Orleans, Louisiana	30.30	769.6	30.36	771.1	30.0	— 1.1	52	n.	20	8.9		2 cs	0	w.		0.01	0.3	clear	**M. Herman.**
New York, New York	29.45	748.0	29.64	752.8	37.2	2.9	100	ne.	13	5.8			10n; fg			0.25	6.3	light rain	H. J. Penrod.
Norfolk, Virginia	29.57	751.1	29.60	751.8	58.9	13.3	93	s.	10	4.5			10s; fg		s.	0.04	1.0	cloudy	Wm. Davis.
North Platte, Nebraska	27.25	692.1	30.37	771.4	8.1	—13.3	86	nw.	8	3.6		0	0			0	0	clear	**Mc Lean.**
Olympia, Washington T'y	30 09	764.3	30.13	765 3	34.0	1.1	88	calm	0	0			10 s			0.07	1.8	cloudy	J. Dascomb
Omaha, Nebraska	29.04	737.6	30.31	769.9	— 6.2	—21.2	67	nw.	6	2.7		0	0			0.02	0.5	clear	A. Pollak
Oswego, New York	29.16	740 7	29.51	749.5	35.0	1.7	69	se.	12	5.4			10 n			0.20	5.1	sleeting	J. G. Linsley.
Palestine, Texas	29.91	759.7	30.49	774.4	14.0	—10.0	64	w.	2	0.9		0	0			0	0	clear	**P. T. Jenkins.**
Pensacola, Florida	30.21	767.3	30.24	768.1	27.8	— 2.3	47	nw.	15	6.7		0	8 s		nw.	0.10	2.5	cloudy	M. McGauran.
Philadelphia, Pa	29.48	748.8	29.59	751.6	39.3	4.1	100	ne.	8	3.6			10 n			0.29	7.4	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.50	444.5	30.20	767.1	—11.0	—23.9	70	n.	37	16.5		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	28.72	729.5	29.57	751.1	34.0	1.1	72	w.	13	5.8			10 s		w.	0.95	24.1	cloudy	**O. D. Stewart.**
Poplar River, Montana					—11	—23.9	50	w.			1		10 s			0	0	cloudy	**G. A. Garden.**
Port Huron, Michigan	28.60	726.4	29.33	745.0	23.0	— 5.0	100	sw.	28	12.5			10 n			0.19	4.8	light snow	M. H. Perry
Portland, Maine	29.82	757.4	29.87	758.7	28.5	— 1.9	94	ne.	20	8.9			10 n		ne.	0.74	18.8	light snow	W. W. Eichelbergen.
Portland, Oregon	30.24	768.1	30.31	769.9	30.8	— 0.7	93	sw.	2	0.9			10 s			0	0	cloudy	M. L. Hearne.
Prescott, Arizona	25.02	635.5	30.40	772.1	16.0	— 8.9	73	e.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.76	755.9	29.79	756.7	39.1	3.9	99	e.	14	6.3			fg.			0.08	2.0	dense fog	O. N. Kitchel.
Red Bluff, California	30.11	764.8	30.48	774.2	41	5.0	92	n.	5	2.2			10 ks		n.	0	0	cloudy	J. R. Williams.
Rio Grande City, Texas	30.38	771.6	30.63	778.0	23.0	— 5.0	88	nw.	1	0.4		1 c	0			0	0	clear	**L. G. Schultz.**
Rochester, N. Y	28.80	731.5	29.51	749.5	25.5	— 3.6	100	se.	12	5.4			10 n			0.48	12.2	heavy snow	**E. W. McGann.**
Roseburg, Oregon	29.72	754.9	30.29	769.4	30.4	2.4	88	n.	1	0.4			10 s			0	0	cloudy	J. J. Nanry.
Sacramento, California	30.37	771.4	30.15	773.4	41.0	5.0	88	n	2	0.9			9 s		w.	0	0	cloudy	J. A. Barwick
St. Louis, Missouri	29.42	747 3	30.08	764.0	15.5	— 9.2	83	sw.	27	12.1		0	0			0.08	2.0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.56	750.8	29.60	751.8	14	—10.0	89	e.	17	7.6		4 ck	0			0	0	fair	**Fred. H. Clarke.**
St. Paul, Minnesota	29.18	741.2	30.12	765.0	— 3.0	—19.4	31	nw.	6	2.7		0	0			inap.	inap.	clear	P. F Lyons.
St. Vincent, Minnesota	29.19	741.4	30.17	766.3	—20	—28.9	100	s.	5	2.2		0	0			0	0	clear	C. B Dilley
Salt Lake City, Utah	26.02	660.9	30.59	777.0	16.8	— 8.4	66	sw.	2	0.9			10 s			0	0	cloudy	J. Craig.
San Diego, California	30.22	767.6	30.29	769.4	40.6	4.8	48	nw.	3	1.3		0	0			0	0	clear	F. R. Day.
Sandusky, Ohio	28.79	731.3	29.51	749.5	22	— 5.6	88	sw.	28	12.5			10 ks		sw.	0.23	5.8	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.60	751.8	29.63	752.6	40.0	4.4	89	e.	38	17.0			10 n			0.72	18.3	light rain	**V. P. Chappel.**
Sanford, Florida	29.83	757.7	29.88	758.9	66.0	18.9	92	sw.	5	2.2			10 ks		sw.	0.03	0.8	cloudy	J. B. Marbury
San Francisco, California	30.35	770.9	30.42	772.7	46.5	8.1	88	n.	5	2.2		0	2 s		nw.	0	0	clear	N. Gorom.
Savannah, Georgia	29.77	756.1	29.87	758.7	51	10.6	64	w.	13	5.8			10 s		w.	0.02	0.5	cloudy	**R. M. Geddings.**
Shaw, Fort, Montana	26.56	674.6	30.42	772.7	8	—13.3	80	se.	2	0.9		0	0			0.02	0.5	clear	**A. L. Mathews.**
Shreveport, Louisiana	30.16	766.1	30.41	772.4	16.0	— 8.9	76	nw.	6	2.7		0	0			0	0	clear	**E. N. Meekins.**
Sitka, Alaska	29.65	753.1	29.72	754.9	42.7	5.9	59	e.	23	10.3			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smithville North Carolina	29.64	752.8	29.68	753.9	60.0	15.6	100	sw.	12	5.4			10 s			0.06	1.5	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.35	720.1	30.49	774.4	12	—11.1	100	nw.	2	0.9			10 n			0.12	3.0	heavy rain	**D. Moore.**
Springfield, Illinois	29.23	742.4	29.96	761.0	7.3	—13.7	87	w.	9	4.0			10 n			0.50	12.7	light snow	T. B. Jennings.
Stockton, Fort, Texas	27.29	693.2	30.43	772.9	26.0	— 3.3	76	sw.	16	7.2		0	0			0	0	clear	**J. W. Byram.**
Tatoosh Id., Wash. Ter	30.06	763.5			38.3	3.5	96	e.	20	8.9			10 n		e.	0.90	22.9	light rain	R. Connor.
Thomas, Camp, Arizona	27.67	702.8	30.50	774.7	11.0	—11.7	80	s.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	28 75	730.2	29.49	749.0	20	— 6.7	86	sw.	32	14.3		0	0			0.07	1.8	clear	A. Buell.
Unalaska, Alaska	29.16	740.7	29.18	741.2	34	1.1	88	e.	8	3.6			10 n			0.31	7.9	light rain	Samuel Applegate.
Vicksburg, Mississippi	30.11	764 8	30.38	771.6	21.6	— 5.8	75	w.	10	4.5		0	0			inap.	inap.	clear	C. Dill.
Washington, D. C	29.41	747.0	29.53	750.0	35.6	2.0	100	ne.	1	0.4			10n; fg			0.48	12.2	light rain	T. B. Harrison.
West Las Animas, Colorado	26.21	665.7	30.34	770.6	11	—11.7	64	w.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N Carolina	29.61	752.1	29.67	753.6	62.0	16.7	93	sw.	10	4.5			10 s		sw.	0	0	cloudy	L. H. Albrecht.
Yankton, Dakota	28.95	735.3	30.37	771.4	— 7.2	—21.8	80	nw.	10	4.5		2 c	0	nw.		inap.	inap.	clear	E. H. Thompson.
Yuma, Arizona	30.26	768.6	30.41	772.4	44.0	6.7	14	n.	11	4.9		0	0			0	0	clear	**W. S. Delano.**
Sub-series.																			
Behring Island, Kamchatka	29.43	747.5	29.45	748.0	30.2	— 1.0	84	ne.	13	5.8		0	5 k		ne.	0.01	0.3	fair	**George Cheruick.**
Bluefields, Nicaragua, C. A.					75	23.9		nw.			2	0	9 n		n.	0.60	15.2	raining	W. H. Jackson.
Bogota, U. S. C.	21.98	558.2			52.7	11.5	90	e.	4	2		3 cs	4 k	se.	n.	0.209	5.3		Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	30.57	776.2	30.74	780.8	—30	—34.4	100	s.	5	2.2		0	0			0	0	clear	**L. M. Turner.**
Kingston, Jamaica, W. I.			30.05	763.3	71.8	22.1	79	n.	1	0.4		3 c	7 s		e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	86	e.			2	4 c	5 k	e.	e.	0.220	5.6	fair	Dr. O. J. Hering.
Puerto Berrio, U. S. C.	29.37	746.0	29.93	760.2	79	26.1	80	calm			0		6 ks		s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75	23.9	92	ne.			1		5 ks		ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.13	765.3	30.20	767.1	—31.0	—35.0		sw.	11	4.9		1 c	1 s	sw.	sw.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.90	759.4	29.91	759 6	80.2	26.8	81	n.	9.6	4.3		0	7 k		n.			fair	P. Fasiani.
Naós, Bay of Panama	29.86	758.4	29.93	760.1	74.1	23.4	90	n.			3	0	2 ks		n.			clear	Antonio Fabre.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
S.S. Assyrian Monarch, N. 48° 51′, W. 23° 57′†	29.30	744.2				sse.			4		0			8 h'r	8 h'r	mod.	e.	clear.
S. S. Alvo, Greytown, Nicaragua *	29.96	761.0	77	25.0		n.			4		6		nne.	7 h'r	7 h'r	r'gh	ne.	fair.
S. S. Alleghany, Cape Charles, Md †	29.59	751.6	50	10.0		s.			2		10		w.	0	0			cloudy.
Bg. Abbie Clifford, N. 40° 38′, W. 69° 17′			43	6.1		e.			3		10			2½ hr	2½ hr		e.	foggy.
Schr. Anna A. Holton, N. 29° 40′, W. 80° 00′						wsw.			6		10		sw.	0	0	r'gh	wsw.	threatening.
S. S. Alps, Aux Cayes, Hayti, W.I.			82	27.8		n.			2		1		n.	0	0	sm'h		clear
S. S. British Prince, N. 51° 50′, W. 16° 40′ †	29.64	752.8	51	10.6		se.			6		8		ese.	5 h'r	5 h'r	h'vy	se.	heavy rain.
S. S. Cienfuegos, St. Jago, Cuba, W. I	30.00	762.0	72	22.2		calm			0		0			0	0			hazy.
S. S. Caracas, La Guayra, Venezuela *†	30.00	762.0	74.5	23.6	85	calm			0		0			0	0	mod.	ne.	clear.
S. S. Canada, N. 40° 55′, W. 69° 18′ †	29.70	754.4	46	7.8		ese.			5					17 h'r	17 h'r	mod.	ene.	dense fog.
S. S. Canada, N. 48° 58′, W. 36° 05′			53.6	12		ese.			4		10		ese.			r'gh	ese.	covered.
S. Cornelius, N. 29° 52′ W 70° 22′*†	30.11	764.8	73.0	22.8		sw.			4		2		w.	0	0	sm'h	sw.	clear.
Bk. Diamant, N. 43° 05′, W. 41° 50′	29.67	753.7			93	nnw.			8		9		n.			7	n.	overcast.
S. S. Dorian, Valencia, Spain	30.34	770.6				var.					10			0	0			cloudy.
S. S. Denmark, London, Eng †	30.14	765.5	45	7.2	92	e.			3		10		e.	0	0			cloudy.
Bk. Don Quixote, N. 50° 18′, W. 1° 53′ *	30.06	763.5	46	7.8		se.			3		8		sse.	½h'r	½h'r	mod.	e.	hazy.
S. S. Fulda, N. 49° 25′, W. 21°04′			55.4	13.0	94	se.			5		10		ese.	3 h'r	3 h'r	long	ese.	cloudy.
Bg. Gipsy Queen Matanzas, Cuba, W. I *†	30.00	762.0				calm			0					0	0			foggy.
Bk. Ibis, N. 32° 40′, W 78° 00′*	29.69	754.1	68	20.0		nw.			9		9		nw.	1 h'r	1 h'r	short	nw.	cloudy.
S. S. Iowa, N. 49° 54′, W. 31° 22′ †	29.22	742.2	55	12.8		e.			4		2		e.	1 h'r	1 h'r	long	e.	clear.
Schr. Jas. Slater, N. 20° 20′, W. 61° 55′ *†	30.20	767.1	78	25.6		ene.			4		0			½ h'r	½ h'r	mod.	ne.	clear.
Bg. Lilian, N. 34° 05′, W. 74° 50′†	29.73	755.1	72	22.2		s			6		10		sw.	5 h'r	5 h'r	r'gh		squally.
S, S. Leipzig, N. 31° 11′, W. 18° 25′	30.02	762.5	69	20.6	100	sw.			1		2		sw.	1 h'r	1 h'r	long	wnw.	fair.
Bg. L. F. Munson, N. 27° 50′, W. 67° 39′ *†	30.15	765.8	72	22.2		se.			3		1		se.	0	0	sm'h	se.	clear.
S. S. Mentmore, N. 50° 58′, W. 24° 32′			54	12.2		se.			7		10		se.	12 h'r	12 h'r	mod	se.	stormy.
Bk. Matilda C. Smith, N. 27° 12′, W. 57° 00′ *†	30.20	767.1				calm			0		3			0	0	mod.	ne.	clear.
Schr. Maggie Abbott, Fort Liberte, Hayti, W. I*†	30.00	762.0							2		2			sh'rs	sh'rs			clear.
Bk. Matthias, N. 33° 48′, W. 39° 40′ *†	29.90	759.4	61.5	16.4		nnw.			5		6		nnw.	2 h'r	2 h'r	4	nnw.	squally.
S. S. New York, N. 24° 32′ W. 80° 45′ *†	30.00	762.0	77	25.0		s.			3		4		s.			mod.	s.	fair.
S. S. Neckar, N. 48° 30′, W. 36° 20′	29.14	740.1	45.5	7.5	84	nw.			5–6		9		nw.	1 h'r	1 h'r	r'gh	nw.	cloudy.
S. S. Olbers, N. 10° 38′, W. 48° 22	30.01	762.2	75.5	24.2	100	ne.			3		10		e	24 h'r	24 h'r	mod.	n.ne	raining.
S. S. Olinde Rodrignes, N. 46° 45′, W. 32° 15′*†	29.10	739.1	50	10.0		nw.			6		10		nnw.	h'vy	h'vy	long	nnw.	cloudy.
S. S. Pavonia, New York, N. Y	29.64	752.8	44	6.7	84	ene.			3		0			4 h'r	4 h'r			misty.
S. S. Picqua, Valencia, Spain *†	30.30	769.6	58	14.4	88	calm			0		10			light	light			overcast.
S. S. Rhynland, N. 50° 30′, W. 25° 32′			51	10.6	86	ene.			2		1		ne.	0	0	sm'h	ene.	clear.
S. S. Republic, N. 43° 27′, W. 59° 29*†	30.10	764.5	39	3.9		e.			5		10		e.			sl't	e.	snowing.
S. S. Romano, off Spurn, Eng	30.09	764.3	48	8.9		se.			4		10					sm'h		foggy.
S. S. Rosse, N. 43° 15′, W. 56° 12′			40	4.4		e.			3		5		w.	0	0	sm'h		fair.
Bk. Rosina, N. 23° 51′, W. 46° 57′	30.14	765.5	73	22.8		nnw.			1		1		nw.	0	0	h'vy	nnw	clear.
S. S. Sardinian, N. 49° 55′, W. 43° 43′	29.22	742.2	32	0.0		nw.			7		10		nw.	hail	hail	h'vy	nw.	hazy.
Bk. Sunbeam, N. 38° 27′, W. 73° 00′ *†	29.60	751.8	58	14.4	87	s.			5		10		sw.	0	0	sm'h		cloudy.
S. S. Scythia, N. 49° 27′, W. 31° 49′	29.15	740.4	54	12.2	100	e.			2		8		var.	1 h'r	1 h'r	mod.	e.	cloudy.
S. S. St. Albans, N. 30° —′, W. 42° —′ *	29.96	761.0	68	20.0		w.			5		6		wnw.	2½h'r	2½h r	long	wnw.	fair.
S. S. Thingvalla, Stettin, Germany			30.2	— 1.		sse.			2									
Bg. Teneriffe, N. 31° 00′, W. 79° 02′	29.80	756.9				w.			6		10		w.			4	ssw.	cloudy.
Schr. Viola Reppard, N. 34° 01′, W. 74° 25′†	29.80	756.9	74	23.3		sw.			6		10		sw.				sw.	drizzling.
S. S. Westphalia, Hamburg, Germany	30.23	767.8	33	0.6	89	n.			1		6			0	0			fair.
Bk. Ariadne, N. 23° 53′, W. 56° 42′	30.21	767.3	72	22.2		ne.			3		4		ne.	0	0	mod.	ne.	fair.
Schr. Annie R Lewis, N. 28° 47′, W. 64° 24′ †			72	22.2		sw.			1		2		w.	0	0	mod	ne.	clear.
Schr. Arthur Burton, Matanzas, Cuba, W.I†	30.05	763.3				calm			0		fg.			0	0	sm'h		foggy.
U. S. S. Alliance, Port au Prince, Hayti, W.I.	29.99	761.7	75	23.9	86	ene.			1		2		calm	0	0	sm'h		clear.
S. S. Bothnia, N. 49° 36′, W. 27° 54′	29.17	740.9	59	15.0		e.			6		10		e.	4 h'r	4 h'r	mod.	e.	threatening.
S. S. Chalmette, New York, N. Y †	29.67	753.6				e.			4					4 h'r	4 h'r			foggy.
Schr. Ellen Crusoe, Mayaguez, Porto Rico, W. I*†	30.08	764.0				ese.							ene.	2 h'r	2 h'r			fine.
Bg. John Welsh, jr., N. 25° 35′, W. 86° 30′ †	29.84	757.9				nnw.			7		10		nnw.			r'gh	nnw.	light rain.
S. S. Ontario, N. 46° 55′, W. 52° 06′	30.12	765.0	23	—5.0		nnw.			6		5		n;ne	0	c	cross		d. clouds.
S. S. Orinoco, Bermuda, Atlantic †	30.08	764 0	72	22.2		sw.			4		10		sw.	0	0			cloudy.
S. S. Rhaeti , N. 47° 25′, W. 41° 17′			40	4.4	91	wnw.			6		8		nw.	snow	snow	long	nne.	squally.
Bk. Saga, N. 27° 34′, W. 24° 24′ *†	30.06	763.5	70	21.1		ssw.			4–7		4		var.	2½ hr	2½ hr	high	wnw.	fair.
S. Storm King, N. 25° 43′, W. 39° 26′ *†	30.10	764.5				nw.			1		6		wnw.	0	0	long	nnw.	fine.
S. S. Salerno, N. 48° 35 . W. 25° 17′ †	29.15	740.4	52	11.1		ese.			2		5		ene.	0	0	mod.	e	hazy.
U. S. S. Swatara, Port au Prince, Hayti, W.I			74	23.3	81	s.			1		1		s.			sm'h		clear.
U. S. S. Tennessee, N. 18° 56′, W. 73° 23′	30.02	762.5	81	27.2	74	se.	4	1.8			2		e.	0	0	mod.	ne.	clear.
U. S. S. Vandalia, St. Lucia, W. I	29.98	761.5	77	25.0	65	e.			2		2		e.					clear.
S. S. Venetian, N. 48° 50′, W. 37° 20′ *	29.02	737.1	44	6.7		wnw.			7–8				wnw.	6 h'r	6 h'r	long	wnw.	sleety.
S. S. Weser, N. 39° 23′, W. 61° 11′	29.96	761.0	60.8	16.0		ese.			4		10		s.	6 h'r	6 h'r	mod.	e.	cloudy.
S. S. Wyoming, off Sandy Hook, N. J	29.63	752.6	38	3.3		ene.			5		9		e.	6 h'r	6 h'r	r'gh	e.	threatening.
S. S. Westernland, Jersey City, N. J	29.69	754.1	36	2.2		e.			4		10		e.	5 h'r	5 h'r			rainy.
S. S. City of Berlin, N. 45° 30′, W. 51° 00′	30.10	764.5	28	— 2.2		nnw.			6								nne.	cloudy.
U. S. Navy Yard, Portsmouth, N. H *	29.88	758.9	34	1.1	90	e.	30	13.4			10		e.	0.1	3.			raining.
U. S. S. Kearsarge, Villefranche, France	30.35	770.9	50	10.0	86	ese.			1		5							fair.
U. S. S. Lancaster, Villefranche, France	30.37	771.4	55	12.8	50	calm			0		8			0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	29.76	755.9	41	5.0	82	ne.			3		10							cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.34	770.6	49	9.4	57	ene.			2		8		ene.			sm'h		fair.
U. S. S. Shenandoah, N. 37° 50′, W. 57° 07′*	30.10	764.5	70	21.1	85	wsw.			3		5		w.			mod.	w.	fair.
U. S. S. Trenton, Gibraltar, Mediterranean	30.29	769.4	58	14.4	88	ssw.			0–1		10		ssw.			sm'h		overcast
H. M. S. Alexandra, Malta, Mediterranean	30.28	769.1	64	17.8	58	ene.			1		7		ene.					d. clouds.
H. M. S. Alecto, N. 5° 05′, W. 1° 13′	29.86	758.4	85	29.4		ne.			1		0					3	ssw.	misty.
H. M. S. Dockyard, Bermuda, Atlantic	30.02	762.5				se.			3		6		ssw.			sm'h		d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.29	769.4	60	15.6	82	sw.			1		10					sm'h		misty.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.85	758.2	86.9	30.5	69	s.			3		5		se.	0	0	2	se.	d. clouds.
S. S. British Crown, N. 48° 57′, W. 42° 50′†	29.13	739 9	40	4.4		nw.			7		8		nw.	4 h'r	4 h'r	high	nw.	squally.
S. S. Ohio, Liverpool, Eng *†	30.08	764.0	38	3.3	90	s.			2		10		e.	0	0			overcast.
S. S. Pennsylvania, Liverpool, Eng			38	3.3	100	se.			4		10		w.	2 h'r	2 h'r			dense mist.
S. S. Devonia, N. 51° 06′, W. 36° 30′†	29.14	740.1	42	5.6		nw.			3		10		nw.	6 h'r	6 h'r	mod.	se.	cloudy.
S. S. Bohemia, N. 49° 19′, W. 11° 04′						se.			6–8		10		se.	1 h'r	1 h'r	h'vy	se.	stormy.
S. S. Frisia, N. 49° 56′, W 12° 00′	29.46	748 3	53	11.7		se.			6		10		se.	3 h'r	3 h'r	long	se.	covered.
S. S. Hevelius, N. 36° 15′, W. 14° 30′ *†	30.02	762.5	70	21.1		sw.			6		3		wsw.	3 h'r	3 h'r	long	sw.	clear.
S. S. Archimede, N. 37° 12′, W. 69° 26′ †	30.02	762.5	68	20.0		ese.			4		7		ese.	4 h'r	4 h'r	r'gh	ene.	cloudy.
S. S. Erin, N. 50° 39′, W. 0° 45′	30.11	764.8	44	6.7		ese.			2		8		ese.	0	0	sm'h		hazy.
S. S. Helvetia, N. 41° 29′, W. 56° 39′	30.10	764.5	46	7.8	92	e.			4		4		ene.	0	0	mod.	ne.	fair.
S. S. Waesland, Antwerp, Belgium	30.23	767.8	42	5.6		e.			4		6		e.	0	0			fair.
S. S. P. Caland, N. 40° 30′, W, 67° 38′	29.76	755.9	54.7?	12.6?	73	sse.			3		3		sse.			3	se.	hazy.
S. S. W. A. Scholten, Rotterdam, Holland	30.16	766.1	29.7	— 1.3	?	sse.			4		5		sw.	0	0			fair.
S. S. State of Nevada, N. 40° 51′, W 66° 41′ *†	29.78	756.4	48	8.9		s.			3		10		s.	7 h'r	7 h'r	mod.	sw	cloudy.
S. S. Saxon, Boston, Mass †	29.75	755.6				ne.			2		10							rain & fog.
S. S. Celtic, N. 44° 00′, W 42° 30′ *†	29.61	752.1	58	14.4		nnw.			7		8		nw.	snow	snow	h'vy	n.	squally.
S. S. Antonio Lopez, Cadiz, Spain	30.21	767 3	61	16.1	80	se.			3		7			3 h'r	3 h'r			fair.
Schr. Adda Doane, Savannah, Ga †	29.92	760.0				wnw.			5		9		wnw.	2 h'r	2 h'r			cloudy.
Bk. Celestina, Cadiz, Spain *†	30.18	766.6				e.			4		7		e ;w	5 h'r	5 h'r			rainy.
Bkt. C. S. Bushnell, N. 36° 37′, W. 8° 22′	30.16	766.1				ssw.			2		2		ssw.	0	0	sm'h	ssw.	clear.
S. E. J. Spicer, Liverpool, Eng	30.09	764.3	39	3.9	100	ese.			3		10		ese.	0	0			hazy.
S. E. B. Sutton, N. 19° 40′, W. 39° 00′ *†	30.15	765.8	75	23.9	77	ne.			2		1		ne.	0	0	light	nw.	clear

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. Hedwig, N. 38° 46′, W. 10° 27′	30.01	762.2	61.5	16.4	100	s.			4		10		s.	4 h'r	4 h'r	2	se.	overcast.
Bk. Heinrich & Tonio, N. 38° 30′, W. 63° 50′ *†	29.98	761.5	63	17.2	88	se.			4		10		se.	0	0	mod.	var.	cloudy.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.36	771.1				wnw.			6		2		nw.	0	0			fair.
Bg. John Wesley, N. 26° 04′, W. 79° 02′						sse.			4		1		sse.	0	0	sm'h	e.	clear.
Schr. John L. Thomas, Hobbles Cays, C. A†	29.96	761.0	77	25.0	86	ese.			2		2		ese.	1½ h'r	1½ h'r			clear.
Bg. L. & W. Armstrong, N. 30° 49′, W. 62° 30′†	30.10	764.5				wsw.			5		6		wsw.	½ h'r	½ h'r	sm'h	w.	raining.
S. S. Laurel, Key West, Fla†	29.97	761.2	76	24.4		sw.			2		8		sw.	5 h'r	5 h'r			cloudy.
Bkt. Levanter, N. 14° 00′, W. 31° 06′*	30.05	763.3	76	24.4		ne.			5		10		ne.	0	0	long	n.	cloudy.
S. S. Madrid, N 39° 25′, E. 25° 49′†	30.29	769.4	43	6.1	83	ne.			6		9		ne.	6 h'r	6 h'r	mod.	ne.	snowing.
S. S. P. de Satras egui, N. 20° 10′, W. 60° 48′	30.16	766.1				e.			3		6		ene.	0	0	mod.	ne.	fair.
Bg. Rising Sun, N. 34° 20′, W. 74° 15′ †.	29.65	753.1	71	21.7		sw.			6		10		sw.	h'vy	h'vy	sll't	sw.	squally.
Bk. Rosalie, N. 17° 00′, W. 38° 33′						ne.			4		2		ne.	0	0	long	n.	clear.
S. Salisbury, N. 38° 02′. E. 9° 05′	30.27	768.9	57.7	14.3	94	ne.			5		4 k		ne.	0	0	mod	ese.	fair.
S. S. City of Alexandria, N. 21° 55′, W. 88° 27′ *†	30.03	762.7	67	19.4		wnw.			8							h'vy	nw.	drizzling.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Montevideo, Uruguay *	30.19	766.8	65	18.3	68	ne.			2		2							clear.
U. S. S. Pinta, Maranham, Brazil	29.93	760.2	83	28.3	75	ne.			1		5		ne					fair.
H. M. S. Amethyst, Montevideo, Uruguay	30.12	765.0	65.5	18.6	63	ne.			1		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.05	763.3	69	20.6		se.			2		3	ese.						blue sky.
H. M. S. Comus, S. 14° 50′, W. 22° 00′	30.04	763.0	75	23.9	90	e.			4		7					4	e.	showery.
H. M. S. Opal, S. 0° 43′, E. 8° 38′	29.87	758.7	82	27.8	83	sse.			2		3	sse.				2	ssw.	blue sky.
S. S. Sirius, S. 10° 23′, W. 34° 59′	29.94	760.5				e.			3		2		e.	0	0	mod.	ese.	clear.
S. S. Strassburg, S. 24° 24′, W. 41° 54′	30.04	763.0	72.0	22.2	71	se.			4		10		se.	3 h'r	3 h'r	3	se.	light rain.
Bk. Chas. Stewart, S. 17° 00′, W. 27° 00′ *†	30.14	765.5	79	26.1		ne.			5		2		e.	0	0	mod.	e.	clear.
Bg. Daphne, S. 3° 42′, W. 36° 09′*†	29.88	758.9	81	27.2	78	ese.			5		9		var.	0	0	shop	var.	threatening.
Bk. Horace Scudder, S. 12° 57′. W. 11° 44′*†	30.12	765.0	78	25.6		ese.			4		3		ese.	0	0	h'vy	se.	clear.
S. Parker M. Whitmore, S. 27° 17′, W. 23° 50′*†	29.97	761.2	78	25.6		nnw.			4		3		nnw.	0	0	sll't	n.	fair.
S. David Stewart, Pernambuco, Brazil †	29.82	757.4	86	30.0		se.			4		3		se.	0	0			
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.33	770.4	33.5	0.8	85	calm			0		0			0	0			clear.
U. S. S. Adams, Sitka, Alaska†	29.78	756.4	45	7.2	76	ene.			6		10							cloudy.
U. S. S. Alert, Honolulu, Sandwich Islands	30.04	763.0	71	21.7	80	ne.			1		8		ne.					cloudy.
U. S. S. Essex, Canton, China	30.08	764.0	66	18.9	78	n.			1		10							overcast.
U. S. S. Juniata, Shanghai, China	30.24	768.1	46	7.8	100	calm			0		0			light	light			clear.
U. S. S. Monocacy, Shanghai, China			46	7.8	77	sse.			1		10		calm			sm'h		cloudy.
U. S. S. Ranger, Panama, Panama	29.89	759.2	77	25.0	91	n.			1		2			0	0			fair.
U. S. S. Richmond, Shanghai, China	30.25	768.3	48	8.9	92	calm			0		0			0	0			foggy.
H. M. S. Audacious, Hong Kong, China	30.09	764.3	64	17.8	77	ene.			2		8	ene.						d. clouds.
H. M. S. Cleopatra, off Amoy, China	30.06	763.5	60	15.6		calm			0		10					sm'h		overcast.
H. M. S. Champion, N. 25° 55′, E. 122° 30′	30.20	767.1	67	19.4	89	e.			3		2					1	e.	blue sky.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.88	758.9	82.5	28.1	73	s.			1		4							d. clouds.
H. P. M. S. Tamega, acao China	30.13	765.3	66.2	19.0	76	n.			2		10			½ h'r	½ h'r			overcast.
S. S. Oceanic, N. 32° 45′, W. 174° 41′	29.97	761.2	69	20.6	74	wsw.			5		8		w.	rain	rain	4	w	cloudy.
S. S. Columbia, N. 43° 52′, W. 124° 30′ *†	30.20	767.1	52	11.1	76	s.			5		10		wsw.			mod	wsw.	cloudy.
S. S. Oregon, N. 45° 56′, W. 124° 03′ †	30.28	769.1	51	10.6	69	se.			4		10		ese.			r'gh	wsw.	threatening.
S. S. Alameda, Honolulu, Sandwich Ids			68	20.0	100	ne.			3		1		ne.	0	0			clear.
S. S. Ancon, San Francisco, Cal.†	30.38	771.6	48	8.9	78	calm			0		0			0	0	sm'h	w.	clear.
S. S. City of Chester, San Francisco, Calf†	30.44	773.2	46	7.8	84	calm			0		0							clear.
S. S. Orizaba, N. 32° 40′, W. 117° 14′	30.29	769.4	59	15.0	94	ne.			2		0			0	0	sm'h	w.	clear.
S. S. Queen of the Pacific, Port Trinidad, Wash. Ter†	30.21	767.3	40	4.4	91	e.			2		10		e.	12 h'r	12 h'r			cloudy.
S. S. State of California, San Francisco, Cal. †	30.42	772.7	45	7.2	84	n.			2		0							clear.
S. S. Australia, N. 10° 15′, W. 103 20′			78	25.6		nne.			4		2		nne.	0	0	mod.	ne.	clear.
S. S. City of Pekin, N. 25° 33′, E. 120° 37′					90	se.			4		5		se.			sm'h		fair.
S. S. City of Tokio, N. 40° 11′, W. 158° 50′			48	8.9	85	w.			6		8		wsw.	20 h'r	20 h'r	h'vy	wsw.	raining.
S. S. Colima, N. 7° 30′, W. 82° 20′†	29.90	759.4	79	26.1	82	nw.			3		7		w.	0	0	small	wsw.	fair
S. S. Granada, N. 32° 27′, W. 119° 50′†	30.34	770.6	58	14.4	76	ene.			1		0			0	0	light	ene.	clear.
S. S. George S. Homer, N. 3° 07′, W. 119° 38′*†	30.00	762.0				se.			2		2		se.	5 h'r	5 h'r	sm'h	sse.	clear.
S. S. Grecian, N. 5° 40′, W. 120° 40′ †	30.03	762.7	78	25.6	82	se.			5		10		se.	1 h'r	1 h'r	long	nw.	cloudy.
S. S. Radnorshire, N. 26° 08′, E. 119° 52′*†						nne.			3		10		ene.	3 h'r	3 h'r	light	nne.	cloudy.
District No. 4—South Pacific.																		
U. S. S. Hartford, Valparaiso, Chili	29.90	759.4	61	16.1	94	nne.			1		10					sm'h		cloudy.
U. S. S. Iroquois, S. 38° 02′, W 89° 36′	29.85	758.2	60	15.6	85	sw.			4		2		ssw.			sm'h	sw.	clear.
U. S. S. Lackawanna, Valparaiso, Chili	29.91	759.7	61	16.1	82	calm			0		10							misty.
U. S. S. Onward, Callao, Peru*†	30.05	763.3	65	18.3	89	calm			0		10					sm'h		cloudy.
U. S. S. Wachusetts, Callao, Peru *†	30.16	766.1	63	17.2	100	ne.			1		8		calm			sm'h		cloudy.
H. M. S. Diamond, S. 33° 52′, E. 151° 14′	30.09	764.3	66	18.9	84	calm			0		2	s.						d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.55	750.6	58	14.4	82	nw.			5		4					1	nw.	showery.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.93	760.2	62	16.7		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.76	755.9	55	12.8	81	calm			0		6							blue sky.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.39	746.5	55	12.8	93	wnw.			1		10							raining.
S. S. City of Sydney, Sydney, N. S. W*†	30.10	764.5	69	20.6	65	se.			1	2 ck		se.						clear.
Bk. Alpheus Marshal, S. 12° 52′, E. 171° 18′ *†	29.77	756.1	81	27.2	91	ese.			2		2			3 h'r	3 h'r	light	n.	clear.
Bk. Godeffroy, S. 41° 31′, W. 89° 15′	29.61	752.1	55.8	13.2	88	w.			6		6		w.	sq'lls	sqll's	mod.	nw.	squally.
S. St. Francis, S. 53° 16′, W. 55° 40′*†	29.10	739.1	47	8.3	70	nw.			6		7		nw.	6 h'r	6 h'r	h'vy	nw.	squally.
S. St. David, S. 48° 07′, W. 96° 10′ *†	29.33	745.0	59	15.0	88	sw.			4		3		sw.	2 h'r	2 h'r	rg'h	sw.	squally.
S. Henry Failing, S. 0° 54′, W. 122° 10′ *†	29.28	743.7	75	23.9	90	ese.			4		10		ese.	2 h'r	2 h'r	sm'h	e.	cloudy.
H. M. S. Espiegle, S. 36° 50′, E. 176° 15′	29.53	750.0	61	16.1	88	w.			6		4					2	w.	showery.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Zanzibar, Zanzibar	29.80	758.4	86	30.0	80	ene.	4	1.8			5		e.	0	0	sm'h		fair.
U. S. S. Pensacola, S. 15° 10′, E. 82° 30′ *	29.79	756.7	80	26.7	74	ese.			4		8		ese.	0	0	sm'h		cloudy.
H. M. S. Euryalus, Suakin, Egypt	29.89	759.2	79	26.1	82	ne.			1					0	0			blue sky.
H. M. S. Tourmaline, S. 19° 45′, E. 56° 55′	30.01	762.2	81	27.2	91	ne.			1							sm'h		d. clouds.
S. S. Galatea, N. 26° 29′, E. 34° 56′ †	30.08	764.0	69	20.6	75	nnw.			2		0			0	0	sm'h		clear.
S. S. Benalder, N. 8° 30′, E. 74° —′*	29.89	759.2	80.5	26.9	76	calm			0		0			0	0	sm'h		clear.
S. S. Port Phillip, Suez Canal, Egypt*	30.10	764.5	67	19.4		ne.			1							sm'h		clear.
S. Carondelet, S. 36° 08′, E. 102° 55′*†	30.14	765.5				nnw.			3		4		nnw.	0	0	sm'h	sw.	fair.
S. S. Lepanto, N. 16° 08′, E 53° 11′			74	23.3		e.			2					0	0	sm'h		clear.

International Chart I. January 2, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 3, 1884,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.23	767.9	60.4	15.8	73	e.			1		0			0	0	clear	Roziere.
Algiers			30.29	769.3	61.5	16.4	75	nw.			3		1			0	0	very fair	Aubert.
La Calle			30.26	768.6	57.9	14.4	76	ne.			2		4			trap.	trap.	cloudy	Fonfrède.
Tunis			30.30	769.5	57.2	14.0	93	sw.			3		3			0.024	0.6	pretty fair	Delord.
Tebessa					53.6	12.0	82	ne.			2		3			0	0	pretty fair	Hans.
Geriville					59.0	15.0	51	nnw.			2		1			0	0	very fair	Forfert.
Laghouat			30.34	770.7	62.2	16.8	50	calm			0		1			0	0	very fair	Abraham.
Biskra			30.32	770.1	50.0	10.0	55	n.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.01	762.2	63.5	17.5	65	s.	9	4.0			1 s			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.46	748.3	29.65	753.1	55	12.8	47	nnw.			3		6		nnw.	0.01	0.3	fair	Com. I. Short, R.N.
Melbourne, Victoria	29.82	757.4	29.91	759.7	61.1	16.2	76	s.	10	4.5			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.82	757.3	30.42	772.6	18.9	— 7.3	79	se.			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.50	749.3	30.32	770.2	24.4	— 4.2	86	ene.	0	0			0			0	0		Dr. Wierzbiski
Eperies	29.42	747.2	30.38	771.7	16.2	— 8.8	82	calm			0		0			0	0		Julius Mikolik.
Gratz	29.06	738.1	30.40	772.2	25.9	— 3.4	73	se.			3		0			0	0		Andreas Rospini.
Hermannstadt	28.86	733.1	30.46	773.7	18.3	— 7.6	95	se.			2		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.90	734.0	30.34	770.6	25.0	— 3.9	91	ene.			1		0			0	0	clear	The Staff.
Lemberg	29.28	743.8	30.34	770.6	26.1	— 3.3	68	se.			1		0			0	0		Dr. T. Stanecki.
Pola	30.13	765.3	30.24	768.2	45.3	7.4	59	nw.			3		0			0	0		I. R. Hydrographic Office.
Szathmar	29.89	759.1	30.40	772.1	14.0	—10.0	100	sw.			2		0			0	0		Joseph Midlinszky, S. J
Szegedin	30.11	764.8	30.41	772.5	24.1	— 4.4	98	calm			0		10			0	0		Karl Stancel.
Trieste	30.19	766.8	30.29	769.3	47.8	8.8	18	e.			2		0			0	0		Royal Academy.
Vienna	29.61	752.2	30.39	771.9	21.9	— 5.6	94	calm			0		0			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon					37.4	3.0	100	ne.			2		4			0	0		
Brussels	29.84	757.9	30.04	762.9	46.2	7.9	86	ssw.			2		10		sw.	0	0		
Furnes																0.012	0.3		
Maeseyck	29.95	760.8	30.08	764.0	44.8	7.1	77	s.			1		10			0	0	dense fog	
British.																			
Aberdeen	29.89	759.2	29.99	761.7	33.5	0.8	84	wnw.	9	4.0			7			0	0	d. clouds	W. Roswell.
Bidston, Liverpool Obs'y			29.82	757.4	46.0	7.8	92	se.	2	0.9			9					overcast	John Hartnup.
Bolton, Sharples	29.30	744.2	29.84	757.9	42.8	6.0	93	ese.					10					drizzling	Thomas Mackereth.
Bradford, Yorkshire	29.46	748.3	29.86	758.4	39.7	4.3	91	e.			2		10			0.30	7.6	raining	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	29.97	761.2	30.00	762.0	74	23.3	95	ne.			2		4					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	29.82	757.4	29.94	760.5	48.4	9.1	98	sw.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	29.77	756.1	29.95	760.7	48.7	9.3	96	sw.			3		10			blank	blank	gloomy	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.65	753.1	29.88	758.9	52.7	11.5	93	s.			3		9					d. clouds	The Staff.
Fort Napier, Natal	27.77	705.3	30.08	764.0	63.2	17.3	91	se.			1		10					raining	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	88	31.1	62	e.			1		1					d. clouds	J. W. Smith.
Galway, Queen's College	29.58	751.3	29.62	752.3	48	8.9	92	s.			1		9			0.30	7.6	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.20	767.1	30.24	768.1	58.2	14.6	95	e			3		10					gloomy	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	29.77	756.1	29.94	760.5	49.1	9.5	96	ssw.			2		10					overcast	The Staff.
Guernsey	29.73	755.1	30.03	762.7	51.5	10.8	93	sw.			2		7					d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	29.90	759.4	29.94	760.5	49.5	9.7	95	ssw.	8	3.6			10					overcast	The Staff.
Leicester, Museum	29.61	752.1	29.87	758.7	50.2	10.1	96	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.04	763.0	30.11	764.8	58.4	14.7	52	se.			3		4			0.96	24.4	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.19	766.8	30.24	768.1	63.0	17.2	89	ne.			5		10					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.68	753.9	29.90	759.4	50.0	10.0	96	sw.			3		10					overcast	The Staff.
Plymouth	29.81	757.2	29.89	759.2	52.3	11.3	97	s.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.90	759.4	30.00	762.0	38.3	3.5	96						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.08	764.0	30.14	765.5	43.0	6.1	90	n			2		10					raining	W. H. Lyne.
Sheffield	29.63	752.6	29.92	760.0	43.0	6.1	98	calm			0		10			0.35	8.9	drizzling	W. F. Cooper.
Silloth Rectory	29.83	757.7	29.86	758.4	36.7	2.6	96	e.			3		10			1.540	39.1	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.86	758.4	38.0	3.3	95	nne.	11	4.9			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					49.8	9.9	98	s.			0.5		10					overcast	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.59	751.6	29.62	752.3	53.4	11.9	88	e.	32	14.3			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.83	757.7	30.23	767.8	53.4	11.9	73	e.	4.9	2.2		0	5 k			0.48	12.2	clearing	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.09	738.9	29.13	739.9	22.0	— 5.6		sw.	10	4.5		0	3 k			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.11	739.4	29.16	740.7	33	0.6	80	sw.	20	8.9		0	2 s		W.	0.550	14.0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.09	738.9	29.15	740.4	24	— 4.4	84	w.	20	8.9		0	0			0.55	14.0	clear	G. A. Blair.
Cornwall, Ontario	29.17	740.9	29.37	746.0	19.0	— 7.2	90	w.			4		10 s			0.600	15.2	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.03	737.3	29.08	738.6	22.5	— 5.3		w.			1	0	5 ks			0.80	20.3	clearing	H. A. Johnson.
Father Point, Quebec*	29.05	737.9	29.07	738.4	20	— 6.7	84	w.	30	13.4			10 n		W.	0.90	22.9	clearing	J. McWilliams.
Fort Garry, Manitoba*	29.34	745.2	30.39	771.9	—44	—42.2	100	n.	10	4.5		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	29.26	743.2	29.33	745.0	22.0	— 5.6	72	sw.	9	4.0		0	0			0.930	23.6	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	29.34	745.2	29.39	746.5	31	— 0.6	52	w.	18	8.0			10 s		sw.	2.08	52.8	cloudy	J. Chipman Seeley
Granton, Ontario	28.51	724.1	29.70	754.4	8.7	—12.9	96	sw.	12	5.4			10 n			0.20	5.1		Jas. Grant.
Halifax, N. S*	29.20	741.7	29.33	745.0	35	1.7	72	sw.	16	7.2			10 k		W.	1.234	31.3	cloudy	A. Allison.
Hamilton, Ontario	29.13	739.9	29.57	751.1	16.1	— 8.8	83	sw.			3		10 n			0.500	12.7	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.10	739.1	29.45	748.0	21	— 6.1	70	w.	20	8.9		0	0			1.20	30.5	hazy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.22	742.2	29.26	743.2	33.0	0.6	80	sw.			4	6 k	0		sw.	0.60	15.2	d. clouds	C. H. Rigby.
London, Ontario	28.72	729.5	29.70	754.4	8.3	—13.2	91	sw.			4		10 ks			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.78	705.6	30.45	773.4	—18	—27.8	80	nw.	1	0.4		0	5 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	28.05	712.5	30.42	772.7	—40	—40.0	100	nw.	10	4.5		c	hz.			0.10	2.5	hazy	Rev. J. M. Wellwood.
Montreal, Quebec*	29.11	739.4	29.33	745.0	12	—11.1	80	sw.	27	12.1			10 n			1.50	38.1	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.15	740.4	29.39	746.5	12.0	—11.1	80	w.				0	8 ks			1.00	25.4	d. clouds	A. McCill, M. A.
Parry Sound, Ontario*	28.65	727.7	29.40	746.7	7	—13.9	80	n.	3	1.3			10 n		n.	0.31	7.9	light snow	Rev. R. Mosley.
Peterboro, Ontario	28.69	728.7	29.47	748.5	15.8	— 9.0	85	sw.			4	7 c	0		sw.	0.03	0.8	d. clouds	Wm. O'Connor, M.A.
Port Arthur	28.90	734.0	29.71	754.6	—20	—28.9	68	wsw.	12	5.4		0	0			0.02	0.5	cloudy	W. P. Cooke.
Port Dover, Ontario	28.93	734.8	29.67	753.6	15	— 9.4	100	w.	23	10.3			10 n			0.27	6.9	light snow	H. Morgan.
Port Stanley, Ontario	29.65	737.9	29.71	755.4	12	—11.1	83	w.	38	17.0			10 n		W.	0.10	2.5	cloudy	M. Pavne.
Qu Appelle, N. W. T	27.77	705.3	30.53	775.4	—35	—37.2		nw.	10	4.5		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	28.83	732.3	29.20	741.7	17	— 8.3	91	sw.	24	10.7			10 ks		W.	0.70	17.8	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	28.81	731.8	29.37	746.0	— 3	—19.4	95	nw.	12	5.4		0	8 s		W.	0.58	14.7	fair	W. H. McIntyre.
St. Andrews, N. B.	29.31	744.5	29.36	745.7	27	— 2.8	88	w.	4	1.8		0	0			0.80	20.3	clear	
St. John, N. B	29.23	742.4	29.38	746.2	26.0	— 3.3	93	w.	36	16.1		3 k	3 k		nw.	0.450	11.4	d. clouds	G. Hutchinson.
Saint John's, N. F.					22	— 5.6	100	se.			3		10 n			trap.	trap.	hailing	J. Higgins.
St. Pierre, N. F.			29.37	746.0	33.8	1.0		se.			7					0	0		The Commandant.
Saugeen, Ontario*	28.71	729.2	29.47	748.5	17	— 8.3	96	sw.	48	21.5			10 s			0.45	11.4	light snow	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Canadian.—Continued.																			
Stratford, Ontario	28.29	718.6	29.67	753.6	11.3	—11.5	80	sw.					10 n			1.30	33.0	snowing	W. Mc Bride, M. A.
Sydney, C. B*	29.11	739.4	29.17	740.9	39	3.9	89	s.	17	7.6		8 c	0	sw.		0.62	15.7	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.26	741.7	29.61	752.1	15	— 9.4	80	sw.	30	13.4		0	5 ks		sw.	0.07	1.8	fair	Magnetic Observatory.
Woodstock, Ontario	28.54	724.9	29.69	754.1	9.6	—12.4	85	sw.	35	15.6			10 n			1.00	25.4	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.39	746.5	29.46	748.3	32	0.0	81	nw.	28	12.5			10 k		nw.	0.85	21.6	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.20	767.1	30.23	767.8	70.5	21.4	82	ese.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.95	760.7			87.5	30.8	25	nnw.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.91	708.9			93	33.9	31									0	0		J. T. Eustace
Chilian.																			
Coquimbo	30.00	762.0	30.08	764.0	63.1	17.3	91	e.			1	0	0					clear	Samuel Redolez.
Iquique	30.02	762.5	30.05	763.2	69.8	21.0	81	sw.			2							misty	Rafael Moreno.
Niebla	29.47	748.5	29.58	751.2	61.5	16.4	85	n.			1	7	7		n.	0.291	7.4	drizzling	Federico Köhling.
Punta Caldera	29.91	759.7	30.00	761.9	63.5	17.5	73	sw.			1	5 cs	0	sw.				fair	Manuel Tobar.
Punta Corona	29.83	757.7	30.02	762.4				sw.			2	0	2 s		n.	0.291	7.4	clear	Francisco Alvarado.
Valparaiso	29.89	759.1	30.02	762.6	64.4	18.0	75	w.				10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai.	30.16	766.1	30.19	766.7	52.2	11.2	96	sse.	3.4	1.5			10 n			0.114	2.9		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.99	761.7	30.04	762.9	35.1	1.7	93	s.	9	4			10					hazy	Oversergent Fischer.
Fanöe	29.90	759.4	29.92	759.9	34.0	1.1	100	s.			4		10					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.98	761.5	30.02	762.6	13.3	—10.4	100	ne.			4		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	30.28	769.1	30.32	770.2	27.7	— 2.4	89	e.			2		0						A. O. Thoriacius.
Thorshavn	30.12	765.1	30.15	765.7	40.3	4.6	94	ne.	19.0	8.5			7						Overloerer Bergh.
Vestervig	29.83	757.6	29.92	760.0	32.9	0.5	100	se.			2		10					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	29.98	761.4			61.2	16.2		sw.	2.9	1.3			8 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.51	749.5	30.16	766.1	56.5	13.6	75	se.			1		k		s.	0	0		M. Labroue, Director.
Alençon, Normal School	29.52	749.7	30.07	763.7	46.0	7.8	91	sw.			4		10 k		ne.	0	0	covered	M. Nicot, Director.
Arras, Normal School			30.08	764.0	44.6	7	91	se.			2		10		se.	0.024	0.6	covered	M. Ungerer, Director.
Avignon, Normal School	30.20	767.1	30.28	769.1	47.8	8.8	84	e.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.56	750.7	30.13	765.2	49.3	9.6	79	s.			1		8		nw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.80	756.8	30.07	763.8	46.2	7.9	89	sse.			1		10		sw.	0	0	covered	M. Frère Eugène Marlè.
Besançon, Normal School	29.38	746.2	30.26	768.5	46.0	7.8	64	nnw.			1		1		s.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.78	756.5	30.05	763.2	54.1	12.3	77	se.			2		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.50	749.2	30.06	763.4	48.2	9	85	ene.			1	ck		e.		0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.73	755.2	29.98	761.4	56.5	13.6	88	s.			2		8		s.	0.433	11.0		M. de Kermarrée, Dir.
Caen, Normal School	29.90	759.5	29.97	761.3	51.1	10.6	93	s.			1–2		5		sw.	0.087	2.2	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.76	756.0	30.10	764.4	48.9	9.4	81	sse.			1		5			0.059	1.5	cloudy	M. Jadot, Director.
Charleville, Normal School																			M. Noël, Director.
Clermont-Ferrand Obs'y	28.74	730.1	30.10	764.6	55.0	12.8	66	s.			2	8 ck			ssw.	0	0		M. Alluard, Director.
Cluny, Normal School	29.31	744.4	30.19	766.7	50.0	10	72	s.			1		3		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.30	744.1	30.19	766.9	44.2	6.8	85	s.			1		n;kn	s.	s.	0.031	0.8		Dr. Coulet, Director.
Gap, Normal School	27.71	703.9	30.35	770.8	40.3	4.6	65	calm			0		10 nk			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.14	740.1	30.30	769.7	44.6	7.0	85	e.			1		10		ne.	0	0		M. Kina, Director.
Grenoble, Normal School	29.49	749.1	30.29	769.4	41.0	5	84	nw.			1		n			0	0		M. Allard, Director.
Guéret, Normal School	28.51	724.1	30.11	764.7	53.6	12	63	sw.			1		2 k		ne.	0	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.47	748.5	30.03	762.8	57.4	14.1	85	e.			1		10 n			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.90	759.5	30.00	762.1	50.7	10.4	60	se.			1		10		se.	0.024	0.6	misty	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.12	739.6	30.19	766.9	49.1	9.5	74	s.			8	8 ck			nw.	0	0	very cloudy	M. André, Director.
Mans, Normal School	29.76	756.0	30.08	764.0	47.3	8.5													M. Richard, Director.
Marseille, Observatory	29.99	761.8	30.27	768.8	51.3	10.7	71	ese.			1		10		se.	0.047	1.2	raining	M. Stephan, Director.
Montlouis	24.89	632.2	29.73	755.2	41.4	5.2	70	sw.	22.4	10.0			6	nw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.10	764.4	30.21	767.3	49.6	9.8	97	w.			4		5			1.382	35.1	raining	M. Galzin, Director.
Nancy, Normal School	29.52	749.9	30.34	770.5	44.2	6.8	85	sw.			1	ck				0	0		M. Hasse, Director.
Nantes, Observatory	29.89	759.2	30.05	763.3	55.2	12.9	82	s.			0–2	ck	8 k		ssw.	0.020	0.5		M. Larocque, Director.
Perpignan, Observatory	30.06	763.5	30.17	766.4	54.5	12.5	81	ne.	5.6	2.5			6		n.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.0			29.5	— 1.4		w.			2		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.18	741.2	30.28	769.1	45.5	7.5	94	s.			1		n	s.	s.	0.008	0.2		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.7			40.5	4.7	86	s.			1	8 ck			sw.	0	0		M. Alluard.
Rochefort, Naval Obs'y	30.02	762.4	30.05	763.2	55.8	13.2	81	ese.			2		5		se.	0.04	1.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.84	757.9	30.06	763.4	51.1	10.6	93	s.			1		5		s.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.69	710.9	30.16	766.0	48.9	9.4		se.			6		1		nw.	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.99	761.8	30.04	763.0	49.3	9.6	92	se.			1		5	se.		0	0	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.91	759.8	30.08	764.0	52.3	11.3	68	s.			1				wsw.	0.012	0.3	covered	M. Renou, Director.
Toulouse, Observatory	29.41	747.1	30.14	765.5	53.2	11.8	86	sse.			8		8	w.		0	0	very cloudy	M. Baillard, Director.
Tours	29.88	758.9	30.06	763.4	59.7	15.4	75	sse.			1		1	wsw.		0	0	clear	M. de Tastes.
Versailles, Observatory	29.56	750.9	30.06	763.4	51.8	11.0	75	s.			1		0			0.008	0.2	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.89	759.3	30.04	763.1	57.4	14.1	75	se.	5.8	2.6		c	7 k	w.	s.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.76	730.5	30.30	769.7	29.1	— 1.6	88	s.			2		8	s.		0	0		Prof. Jnedt.
Bamberg	29.33	744.9	30.18	766.5	30.2	— 1.0	80	calm			0		3 ks			0	0		Prof. Dr. Hoh.
Berlin	30.02	762.6	30.18	766.5	33.8	1.0	79	s.			1		8			0	0		Meteorological Institute
Breslau	29.72	754.8	30.25	768.4	33.1	0.6	73	sse.			1		0			0	0	misty	Royal University Obs'y
Carlsruhe	29.75	755.6	30.23	767.8	35.6	2.0	62	calm			0		1	nw.		0	0		Albert Senz.
Cassel	29.42	747.3	30.14	765.5	36.3	2.4	75	s.			3		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.85	758.3	30.24	768.2	31.5	— 0.3	83	e.			1		7			0	0		Physical Society.
Friedrichshafen	28.80	731.6	30.30	769.5	33.4	0.8	75	sw.			1		8	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.99	761.7	30.08	764.0	35.6	2.0	78	se.			3		10			0	0	dense haze	E. Preller.
Kiel	30.01	762.3	30.03	762.7	36.0	2.2	72	s.			1		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.77	756.1	30.20	767.1	36.7	2.6	74	s.			2		1			0	0		H. Leppig, Asst.
Magdeburg	29.95	760.7	30.15	765.7	38.7	3.7	77	se.			1		0			0	0		Weather Observatory.
Memel	30.12	765.1	30.17	766.3	30.6	— 0.8	90	s.			4	2 c							Issermann.
Munich	28.38	720.8	30.26	768.5	31.8	— 0.1	83	calm			0		3			0	0		Central Station.
Neufahrwasser	30.15	765.7	30.16	766.1	30.0	— 1.1	82	s.			1		0			0	0		A. Lothes.
Neustadt, Palatinate	29.69	754.2	30.22	767.6	33.8	1.0	80	sw.			1		2	sw.		0	0		Dicknether.
Stuttgart	29.22	742.3	30.16	766.0	36.9	2.7	53	e.			1		0			0.008	0.2		Prof. Dr. Schoder.
Wustrow	30.03	762.7	30.05	763.3	33.1	0.6	68	se.			2		8 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.76	756.0	30.16	766.1	47.7	8.7		n.			1.0	0	1 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.00	761.9	30.05	763.3	71.9	22.2	71	wsw.	14.0	6.3			2			0	0	d. clouds	
Deesa	29.56	750.8	30.04	763.0	77.1	25.1	25	nne.	3.0	1.3			3	wnw.		0	0	d. clouds	
Bombay	29.95	760.8	29.99	761.8	77.5	25.3	64	nw.	6.0	2.7			0			0	0	blue sky	
Poona, Yarrowda	28.14	714.6	30.03	762.8	69.9	21.1	31	ne.	7.0	3.1			0			0	0	blue sky	
Belgaum	27.41	696.2	29.95	761.0	75.6	24.2	33	ne.	4.0	1.8			0			0	0	blue sky	
Lahore	29.35	745.4	30.13	765.2	60.6	15.9	60	calm	0	0			3			0	0	d. clouds	
Roorkee	29.17	740.8	30.11	764.8	61.8	16.6	61	calm	0	0			4	w.		0	0	d. clouds	
Agra	29.53	749.9	30.11	764.9	66.3	19.1	46	calm	0	0			0			0	0	blue sky	
Nagpur	28.99	736.3	30.06	763.5	69.9	21.1	40	e.					0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.70	729.0	30.10	764.6	66.9	19.4	40	n.	0.6	0.3			0			0	0	blue sky	
Lucknow	29.74	755.4	30.13	765.4	65.3	18.5	47	calm	0	0			0			0	0	blue sky	
Allahabad	29.81	757.1	30.14	765.4	62.7	17.1	56	calm	0	0			0			0	0	blue sky	
Patna	29.94	760.4	30.13	765.4	63.2	17.3	55	calm	1.7	0.8			0			0	0	blue sky	
Hazaribagh	28.03	712.0	30.11	764.8	63.7	17.6	41	n.	2.0	0.9			0			0	0	blue sky	
Cuttack	30.00	761.9	30.08	764.0	67.9	19.9	60	e.	2.0	0.9			0			0	0	blue sky	
Calcutta, Alipore	30.05	763.3	30.08	763.9	64.7	18.2	61	n.	1.5	0.7			0			0	0	blue sky	
Dhubri	29.96	761.0	30.09	764.2	64.4	18.0	73	calm	1.2	0.5			0			0	0	blue sky	
Chittagong	29.97	761.2	30.06	763.6	67.0	19.4	68	wnw.	1.5	0.7			0			0	0	blue sky	
Sibsagar	29.78	756.4	30.14	765.5	57.3	14.1	78	ne.	1.0	0.4			0			0	0	d. clouds	
Jeypore	28.62	727.0	30.11	764.8	67.0	19.4	45	calm	1.0	0.4			4			0	0	d. clouds	
Zanzibar	29.86	758.6	29.89	759.1	80.8	27.1	74	n	5.7	2.6			8		ene.	0	0	blue sky	
Bellary	28.46	722.9			79.0	26.1	37	e.				0	0			0	0	d. clouds	
Trichinopoly	29.68	753.9			82.9	28.3	58	ne.	0.1	0.04		2	3			0	0		
ITALIAN.																			
Udine	29.86	758.4	30.28	769.2	46.2	7.9	24	ne.	1.3	0.6			0			0	0		Prof. Giovanni Clodig.
Milan	29.83	757.6	30.37	771.4	34.9	1.6	71	sw.	3.1	1.4			1			0	0		Prof. Dott. Lorenzoni.
Padua	30.17	766.4	30.39	769.3	39.7	4.3	54	nnw.	1.8	0.8			0			0	0		Prof. F. F. Denza.
Moncalieri	29.38	746.2	30.33	770.4	39.6	4.2	77	n.	1.8	0.8			2			0	0		Prof. G. M. Garibaldi.
Genoa	30.10	764.6	30.30	769.0	49.3	9.6	53	se.	0.7	0.3			0			0	0		Prof. Luigi Guidi.
Pesaro	30.26	768.5	30.31	769.8	40.5	4.7	61	nnw.	10.5	4.7			0			0	0		Prof. Costantino Pittei
Florence	29.99	761.8	30.26	768.5	38.3	3.5	83	ne.			2		1			0	0		Prof. P. Monte.
Leghorn	30.19	766.8	30.28	769.0	45.5	7.5	50	ne.	8.1	3.6			2			0	0		Prof. P. Tacchini.
Rome	30.08	763.9	30.26	768.5	46.4	8.0	47	n.	3.1	1.4			0			0	0		Prof. C. de Giorgi.
Lecce	29.95	760.6	30.21	767.2	49.3	9.6	47	n.	9.4	4.2			3			0	0		Prof. D. Conti.
Cosenza	29.37	745.9	30.29	769.3	43.2	6.2	70	nw.	3.1	1.4			1	nw.		0	0		Prof. A. Pacinotti.
Cagliari	30.06	763.6	30.26	768.6	53.8	12.1	53	calm			0		0			0	0		Prof. G. Cacciatore.
Palermo	30.01	762.2	30.26	768.7	51.6	10.9	61	nw.	4.2	1.9			10	nw.		0.106	2.7		Sig. V. Giuliano.
Syracuse	30.18	766.5	30.22	767.7	53.4	11.9	60	nne.	2.5	1.1			0	nne.		0.764	19.4		
Sub-series.																			
Naples, Astron'l Obs'y	29.71	754.7	30.26	768.5	48.9	9.4	56	nnw.	0	0			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.43	773.0	30.46	773.9	27.9	— 2.3	100	e.			2	0	1 k		w.	0	0	clear	H. Hattori.
Awomori	30.39	771.9	30.43	772.9	25.4	— 3.7	70	wsw.	0.5	0.2		0	6 s			0	0	fair	K. Ogawa.
Hakodate	30.42	772.7	30.43	773.0	27.3	— 2.6	85	nne.	3.0	1.3		0	3 s			0	0	clear	Y. Souma.
Hamamatsu	30.33	770.4	30.43	772.9	35.4	1.9	79	calm			0	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.43	772.9	30.44	773.3	36.2	2.3	81	n.	3.4	1.5		0	0			0	0	clear	Y. Okamoto.
Kagoshima	30.40	772.2	30.41	772.5	49.9	9.9	68	ene.			2	0	0			0	0	clear	
Kanazawa	30.35	770.8	30.46	773.6	29.5	— 1.4	77	e.	5.4	2.4		0	0			0	0	clear	S. Endo.
Kioto	30.26	768.6	30.43	773.0	30.7	— 0.7	85	nne.	1.3	0.5		0	0			0	0	clear	M. Tojima.
Kochi	30.43	772.8	30.45	773.3	38.1	3.4	90	e.	6.0	2.7		0	0			0	0	clear	K. Kusunose.
Miasaka	30.41	772.5	30.44	773.2	37.0	2.8	91	nnw.			1	0	0			0	0	clear	K. Masusaki.
Miyako	30.35	770.9	30.46	773.7	26.8	— 2.9	83	wsw.	4.3	1.9		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.19	766.8	30.40	772.1	37.9	3.3	86	calm	0	0		0	0			0	0	clear	
Nemuro	30.33	770.1	30.38	771.6	21.5	— 5.8	70	calm	0	0		0	0			0	0	clear	A. Shibuya.
Niigata	30.44	773.2	30.48	774.2	33.2	0.7	91	sw.	1.0	0.4		0	0			0	0	clear	Satoo & Tomikawa.
Nobiru	30.47	773.8	30.48	774.2	25.7	— 3.5	96	nnw.	3.7	1.6		0	0			0	0	clear	Yoshino & Midzushina.
Numadzu	30.41	772.4	30.45	773.4	37.0	2.8	68	ene.			2	0	0			0	0	clear	T. Ohgi.
Osaka	30.43	773.0	30.45	773.4	33.3	0.7	86	ne.	2.7	1.2		0	0			0	0	clear	H. Omura.
Sakai	30.42	772.8	30.43	773.0	38.1	3.4	56	nne.			2	0	0			0	0	clear	Yamawchi & Sakamoto.
Sapporo	30.34	770.6	30.41	772.4	13.0	—10.6	57	s.	12.3	5.4		0	0			0.445	11.3	clear	S. Kimura.
Shimonoseki	30.28	769.0	30.42	772.7	43.0	6.1	78	calm	0	0		0	0			0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	30.41	772.3	30.49	774.4	33.2	0.7	74	ene.	4.4	2.0		0	0			0	0	clear	The Staff.
Wakayama	30.39	772.0	30.45	773.4	35.6	2.0	81	calm	0	0		0	0			0	0	clear	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.82	757.4	30.01	762.2	82.0	27.8	65	ene.	12.0	5.4		1 cs	4 k		e.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.39	619.5	30.34	770.6	38.3	3.5	90	nnw.	0.9	0.4			0			inap.	inap.	clear	M. Leal & M. Pina.
Mazatlan	29.87	758.7	30.13	765.4	65.5	18.6	61	e.	0.9	0.4		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.01	762.2	30.01	762.2	44.2	6.8		ssw.			3					0	0		
Groningen	30.02	762.4	30.07	763.8	37.8	3.2		ssw.			2					0	0		
Helder	29.95	760.6	29.95	760.6	40.3	4.6		s.			4					0.055	1.4		
Hellevoetsluis	30.00	762.1	30.00	762.1	45.0	7.2	91	sw.			2					0	0		
Utrecht	29.98	761.4	30.03	762.8	41.2	5.2	95	sse.			2		9			0.020	0.5	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.90	759.4			77.7	25.4	84	n.	2.0	0.9			10			0.504	12.8		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.90	759.5	29.97	761.1	33.8	1.0	85	nnw.	7	3			5			0	0		
Brono	30.04	763.0	30.08	764.0	25.0	— 3.9	84	nne.			2		10			0	0		
Christiania	29.84	758.0	30.00	762.0	24.8	— 4.0	95	ese.	4	2			10					snow & fog.	
Gjæsvær	29.91	759.8	29.94	760.4	16.2	— 8.8		n.			6		8			0	0		
Lodingen	29.97	761.3	30.02	762.5	17.8	— 7.9	71	calm			0		1			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.92	759.9	30.00	762.1	65.5	18.6	77	sw.	6.3	2.8			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.69	754.1	30.02	762.6	61.2	16.2	89	ssw.	12.5	5.6			9			1.122	28.5		The Staff.
Ponta Delgada, Azores	29.46	748.2	29.53	750.0	55.4	13.0	59	w.	23.0	10.3			3			0.323	8.2		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.02	762.5	30.06	763.4	72.9	22.7	86	ene.			4		10			0	0	light fog	
San Salvador, Congo	27.98	710.6	29.77	756.2	86.5	30.3	58	se.			1		8			0.230	6.0		
Serra da Estrella	25.26	641.6	30.00	763.4	42.3	5.7	94	s.	14.3	6.4			8			2.650	67.3	foggy	
RUSSIAN.																			
Akmolinski	28.21	716.5	29.36	745.7	9.0	—12.8	100	w.	31	14			10 n			0	0		Major K. Lasarew.
Archangel	29.73	755.2	29.75	755.7	16.9	— 8.4	91	w.	13	6			9 k			0.071	1.8	snow-drift	Capt. Sseliwerstow.
Ashurada	30.41	772.5	30.32	770.1	46.9	8.3	69	nne.	2	1			10 k			0	0		
Astrakhan	30.42	772.7	30.34	770.7	24.3	— 4.3	100	ese.	2	1			10			0	0		Capt. Wisganow.
Baku	30.36	771.2	30.32	770.0	44.6	7.0	78	calm	0	0		3 cs	0			0.012	0.3		
Barnaul	28.72	729.5	29.24	742.7	20.5	— 6.4	93	sw.	45	20			10			0.614	15.6		Meteorological Office.
Bielosersk	29.09	754.0	30.21	767.2	4.6	—15.2	69	calm	0	0		0	1 s			0.110	2.8		
Dorpat	29.86	758.4	30.11	764.9	31.5	— 0.3	94	sw.	7	3			10 n			0.071	1.8	light snow	Observatory.
Ekaterinburg	28.57	725.7	29.53	750.0	7.3	—13.7	68	nnw.	22	10		0	8			blank	blank		Meteorological Obs'y.
Elissawetgrad	29.85	758.1	30.34	770.6	16.9	— 8.4	91	calm	0	0			10 s			0	0		
Kasan	29.78	756.4	30.08	763.9	6.6	—14.1	88	wsw.	16	7			5			0	0		Observatory.
Kem	29.95	760.6	30.00	761.9	2.1	—16.0	75	w.	13	6		0	1 ks			0	0		
Kertch	30.24	768.0	30.27	768.6	26.2	— 3.2	100	calm	0	0			10 n			0	0		Lagorio & Sastyrev.
Kieff	29.61	752.2	30.30	769.6	21.4	— 5.9	100	nnw.	2	1			10 ks	n		0	0		Observatory.
Koslov	29.72	754.9	30.25	768.4	29.7	— 1.3	87	wnw.	11	5			10 s			0	0		
Lgov	29.71	754.5	30.33	770.3	28.8	— 1.8	92	e.	2	1			10			0.008	0.2	snowing	R. I. Saaweljew, Engin'r.
Libau	30.08	764.0	30.10	764.0	32.5	0.3	89	se.	9	4			10			0	0		E. Quass.
Lugan	30.06	763.6	30.28	769.2	24.8	— 4.0	91	e.	9	4			10			0	0		Meteorological Obs'y
Moscow	29.75	755.7	30.27	768.9	21.2	— 6.0	72	n.	4	2		0	0			0	0		Meteorological Obs'y
Nertschinsk	27.75	704.8	30.31	769.8	— 2.6	—19.2	67	nw.	7	3			0			0	0		

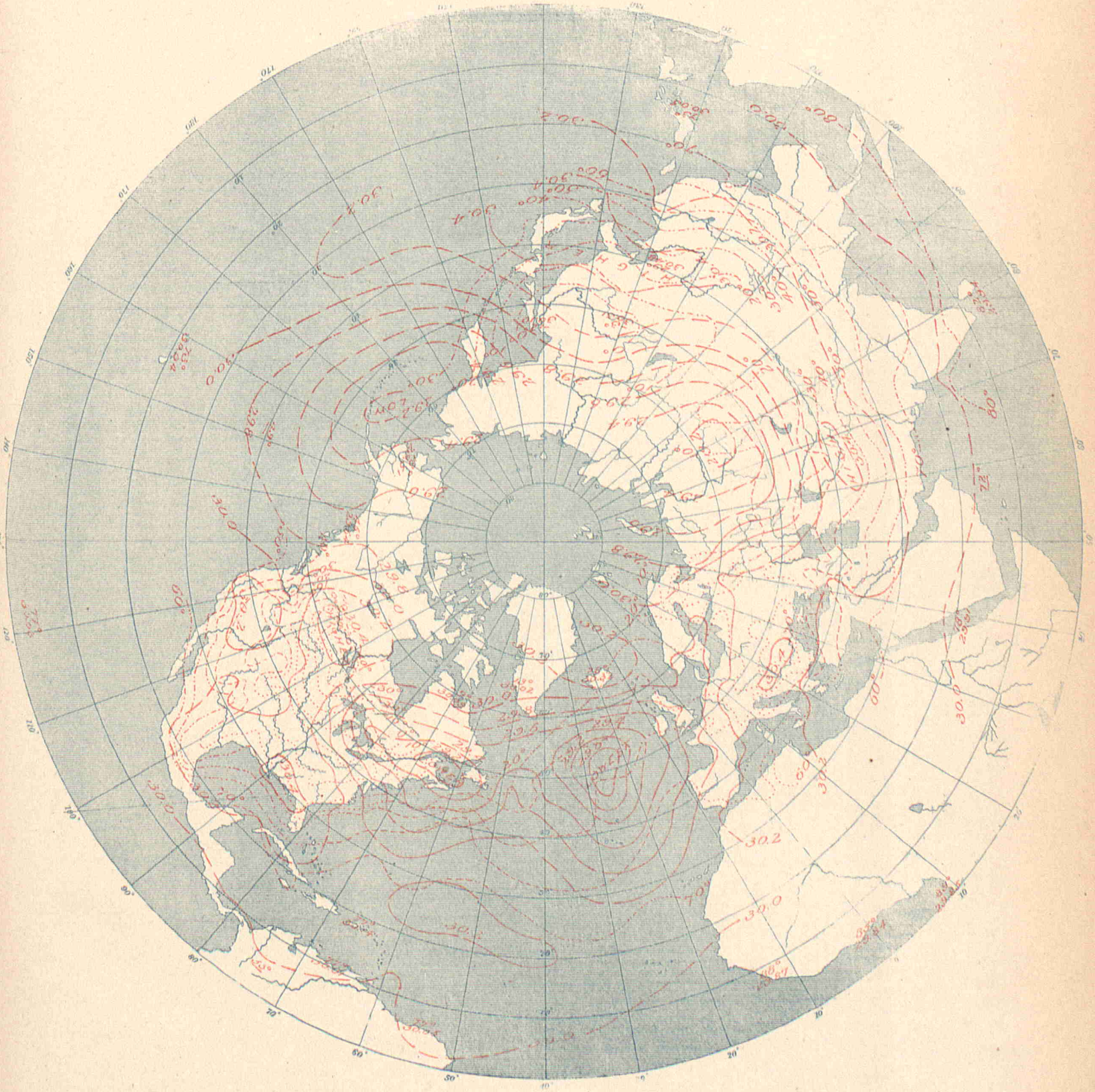
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	30.23	767.8	30.30	769.6	12.0	—11.1	86	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	30.01	762.2	30.10	764.4	—12.3	—24.6	76	ne.	4	2			9 n						Iwanow.
Pekin, China	30.34	770.6	30.48	774.2	28.8	— 1.8	28	nw.	3.4	1.5		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.98	761.4	30.35	770.9	30.4	— 0.9	78	s.	2	1			10 k						
Petrozavodsk	29.93	760.1	30.14	765.6	9.5	—12.5	69	calm	0	0		0	7 ks			0.185	4.7		Dr. Bergmann.
Pinsk	29.80	756.9	30.34	770.6	16.7	— 8.5	100	calm	0	0			10			0	0	foggy	
Poti	30.15	765.9	30.19	766.7	50.5	10.3	66	calm	0	0		0	0			0	0		
St. Petersburg	30.10	764.4	30.12	765.0	23.5	— 4.7	81	sse.	13	6			10 n			inap.	inap.		Central Physical Obs'y.
Samarkand	27.83	706.9	30.49	774.5	23.0	— 5.6	98	calm	0	0		0	6						
Semipalatinsk	28.87	733.4	29.57	751.0	20.3	— 6.5	84	sw.	45	20			9			0	0		Major Lasarew
Sevastopol	30.00	762.0	30.22	767.6	40.8	4.9	56	ne.	7	3		0	0			0	0		
Staroi Bykhov	29.69	754.0	30.27	768.9	31.1	— 0.5	100	calm	0	0			10			0	0		
Tashkend, Laboratory	28.63	727.2	30.41	772.4	29.7	— 1.3	61	calm	0	0		0	0						Terch, A. M
Tiflis	28.85	732.7	30.35	770.8	33.4	0.8	80	calm	0	0		7 cs	0			0	0		Physical Observatory.
Vernoe	27.50	698.4	30.18	766.6	18.1	— 7.7	68	s.	2	1		0	1 k						
Viatka	29.24	742.7	29.93	760.3	5.4	—14.8	87	wnw.	22	10			9			0	0		
Vladivostock																			
Warsaw	29.84	757.9	30.29	769.3	29.3	— 1.5	82	sw.	4	2		4 ck	0			0	0		Astronomical Obs'y.
Yeniseisk	29.06	738.1	29.36	745.7	19.4	— 7.0	77	wsw.	18	8			6			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.64	752.8	30.23	767.8	16.5	— 8.6	64	calm	0	0		1 c	0			0	0	clear	Prof. S. Fadeieff.
Spanish.																			
Barcelona, Met. Obs'y	30.05	763.3	30.17	766.2	54.3	12.4	93	w.								0.150	3.8	misty	B. J. Elin.
Bilbao, Met. Obs'y	29.94	760.4	30.00	761.9	63.0	17.2	62	s.	8.1	3.6		2	4	se.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.11	688.7	30.11	764.7	51.8	11.0	81	s.	6.3	2.8			10			0.197	5.0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.91	708.9	30.16	766.1	54.3	12.4	79	sw.	11.4	5.1			10			0.201	5.1	covered	The Staff.
Murcia, Met. Obs'y	30.08	763.9	30.20	767.0	54.0	12.2	90	wsw.	0.2	0.1		4	6	e.		0.016	0.4	misty	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.96	735.5	29.85	758.1	57.9	14.4	84	sse.	7.4	3.3			10			0.421	10.7	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.18	766.8	30.26	768.5	61.7	16.5	81	nne.	22.6	10.1			10 k;n		n.	0.29	7.3	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.99	761.8	30.05	763.3	73.4	23.0	84	e.	8.8	3.9		4 ck	2 ks	ne.	ne.	0	0	fair	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.09	764.2	30.19	766.7	62.2	16.8	72	se.	9.8	4.4		3	4	se.	se.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.05	763.2	30.14	765.5	77.4	25.2	76	se.	13.4	6.0		3 cs	2 k	n.	n.				Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.04	763.0	30.08	764.0	— 4.0	—20.0	86	w.			2		0			0	0		
Umea	29.99	761.8	30.04	763.1	20.5	— 6.4	74	n.			2		9			0	0		
Hernosand	29.95	760.8	30.00	762.1	28.0	— 2.2	96	e.			4		10			0.020	0.5		
Stockholm	29.79	756.7	29.97	761.2	26.1	— 3.3	96	w.			2		10			0	0		
Wisby	29.98	761.5	30.04	763.0	33.8	1.0	85	wsw.			4		10			0	0		
Sub-series.																			
Upsala	29.86	758.4	29.95	760.6	25.5	— 3.6	100	wsw.	8.9	4.0			10			0.008	0.2	foggy	H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.19	766.9	42.6	5.9	91	n.	16	7.0			10		nne.	0.197	5.0		The Observatory.
Valona			30.17	766.2	50.7	10.4		nw.			1		2			0	0	slightly cl'd'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.10	764.4	60.8	16.0	67	nw.			1		5 k;n		sw.	0.245	6.2		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	29.57	751.1	29.66	753.4	30.5	— 0.8	72	sw	6	2.7			10 s		w.	0.50	12.7	cloudy	J. O. Barnes.
Alpena, Michigan	28.70	730.5	29.46	748.3	12.2	—11.0	80	sw.	13	5.8			10 s			0.40	10.2	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.3	30.17	766.3	25.0	— 3.9	73	se.	3	1.3		0	4 s			0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.33	694.2	30.37	771.4	— 9.0	—22.8	61	n.	1	0.4			10 s		n.	0	0	cloudy	F. Newman.
Atlanta, Georgia	29.06	738.1	30.29	769.4	18.0	— 7.8	83	w.	10	4.5		0	0			inap.	inap.	clear	B. A. Blundon.
Atlantic City, New Jersey	29.89	759.2	29.90	759.4	25.3	— 3.7	64	nw.	15	6.7		3 ck	3 ks	nw.	nw.	0.73	18.5	fair	W. J. Evans.
Augusta, Georgia	30.14	765.5	30.34	770.6	26	— 3.3	82	w.	3	1.3		0	0			0	0	clear	Geo. W. Feiger.
Baltimore, Maryland	29.91	759.7	29.96	761.0	27	— 2.8	64	w.	8	3.6			10 s		w.	0.05	1.3	cloudy	F. L. Johnson.
Barnegat City, New Jersey	29.86	758.4	29.88	758.9	26.0	— 3.3	64	w.	26	11.6		2 k	0	w.		0.44	11.2	clear	A. Pritchard.
Bennett, Fort, Dakota	28.67	728.2	30.41	772.4	—16.0	—26.7	100	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Benton, Fort, Montana	27.46	695.9	30.38	771.6	— 7.5	—21.9	100	ne.	4	1.8			10 n			0.06	1.5	light snow	B. O. Lenoir.
Bismarck, Dakota	28.35	720.1	30.35	770.9	—25	—31.7	100	nw.	5	2.2		0	0			0	0	clear	J. T. Elker.
Block Island, Rhode Island	29.70	754.4	29.73	755.1	26.5	— 3.1	88	sw.	32	14.3		3 cs	4 ks	sw.	sw.	0.85	21.6	fair	James Kenealy.
Boise City, Idaho	27.34	694.4	30.28	769.1	10	—12.2	91	w.	2	0.9			10 s			0	0	cloudy	O. B. Cole.
Boston, Massachusetts	29.45	748.0	29.62	752.3	24.0	— 4.4	61	w.	15	6.7		0	2 s			1.26	32.0	clear	John McGlone.
Brownsville, Texas	30.28	769.1	30.34	770.6	32.2	0.1	78	e.	5	2.2		0	0			0	0	clear	Wm. Finn.
Buffalo, New York	28.87	733.3	29.06	753.4	18	— 7.8	95	sw.	42	18.8			10 n			0.44	11.2	light snow	A. Schneider.
Buford, Fort, Dakota	28.14	714.7	30.36	771.1	—25.2	—31.8	100	w.	4	1.8		0	0			0	0	clear	W. H. Ray.
Cairo, Illinois	29.88	758.9	30.30	769.6	15.0	— 9.4	67	w.	8	3.6		0	0			0	0	clear	J. H. Young.
Canby, Fort, Washington Ter	29.70	754.4	29.90	759.4	47.3	8.5	94	se.	17	7.6			10 n			0.94	23.9	light rain	A. K. Alderson.
Cape Henry, Virginia	30.04	763.0	30.06	763.5	26.0	— 3.3	100	sw.	20	8.9		0	7 s			0	0	fair	W. E. Smith.
Cape May, New Jersey	29.92	760.0	29.95	760.7	28.0	— 2.2	54	w.	28	12.5		2 cs	0	nw.		0.15	3.8	clear	A. P. Leavitt.
Cape Mendocino, California	29.48	748.8	30.18	766.6	49	9.4	71	se.	44	19.7			10 s		se.	0	0	cloudy	G. W. Davis.
Cedar Keys, Florida	30.40	772.1	30.42	772.7	28.5	— 1.9	60	n.	7	3.1		0	0			0.03	0.8	clear	J. H. Smith.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	27.0	— 2.8	77	nw.	14	6.3		0	3 s		nw.	0.07	1.8	clear	D. O'Donoghue.
Charlotte, N. Carolina	29.32	744.7	30.21	767.3	23.0	— 5.0	61	sw.	6	2.7		0	0			0	0	clear	B. L. Goulding.
Chattanooga, Tennessee	29.46	748.3	30.32	770.1	21.5	— 5.8	65	w.	6	2.7		1 cs	0			inap.	inap.	clear	E. McGovern.
Cheyenne, Wyoming	23.75	603.2	30.02	762.5	25.6	— 3.6	60	nw.	28	12.5		0	hz			0	0	clear	Wm. Norrington.
Chicago, Illinois	29.17	740.9	29.92	760.0	2.0	—16.7	56	w.	16	7.2		0	0			inap.	inap.	clear	C. F. Dickens.
Chincoteague, Virginia	29.95	760.7	29.97	761.2	27	— 2.8	77	nw.	10	4.5		0	5 k		w.	0.04	1.0	fair	L. Dunne.
Cincinnati, Ohio	29.46	748.3	30.15	765.8	16.6	— 8.6	73	sw.	13	5.8		0	2 s		sw.	0.04	1.0	clear	W. Line.
Cleveland, Ohio	29.08	738.6	29.86	758.4	6.0	—14.4	87	sw.	21	9.4		0	0			inap.	inap.	clear	F. T. Williams.
Columbus, Ohio	29.14	740.1	30.04	763.0	7.1	—13.8	81	sw.	18	8.0		0	0			inap.	inap.	clear	C. E. King.
Concho, Fort, Texas	28.20	716.3	30.22	767.6	25.0	— 3.9	76	s.	12	5.4		0	0			0	0	clear	W. J. Daily.
Custer, Fort, Montana	26.84	681.7	30.22	767.6	— 2	—18.9	100	ne.	4	1.8			10 n			0.45	11.4	heavy snow	R. R. Martin.
Davenport, Iowa	29.44	747.8	30.15	765.8	— 1	—18.3	68	nw.	7	3.1		0	0			0	0	clear	J. Williams.
Davis, Fort, Texas	25.33	643.4	30.31	769.9	27.0	— 2.8	70	sw.	3	1.3		5 cs	0			0	0	fair	H. S. Blandford.
Dayton, Washington Ty	28.19	716.0	30.00	762.0	27.5	— 2.5	92	sw.	2	0.9			10 s			0.26	6.6	cloudy	G. Kingsbury.
Deadwood, Dakota	25.22	640.6	30.17	766.3	— 6.0	—21.1	100	n.	3	1.3		0	0			0.02	0.5	clear	G. A. Martin.
Delaware Breakwater, Del.	29.93	760.2	29.95	760.7	27	— 2.8	77	sw.	13	5.8		3 k	0	sw.		0.45	11.4	clear	F. M. Neal.
Denver, Colorado	24.53	623.1	30.05	763.3	38.0	3.3	48	w.	13	5.8		0	6 s		w.	0	0	fair	F. W. Conrad.
Des Moines, Iowa	29.29	744.0	30.26	768.6	— 5	—20.6	62	n.	10	4.5		0	0			0	0	clear	N. B. Conger.
Detroit, Michigan	29.04	737.6	29.80	756.9	11.0	—11.7	80	w.	29	13.0			10 n			0.30	7.6	light snow	J. E. Lanouette.
Dodge City, Kansas	27.34	694.4	30.09	764.3	23	— 5.0	67	se.	3	1.3		0	hz.			0	0	clear	J. Harvey Smith
Dubuque, Iowa	29.30	744.2	30.07	763.8	— 5.2	—20.7	49	w.	11	4.9		0	0			0	0	clear	E. R. Brace.
Duluth, Minnesota	29.22	742.2	30.02	762.5	—25	—31.7	100	sw.	10	4.5		0	0			0.01	0.3	clear	D. C. Murphy.
Eastport, Maine	29.31	744.5	29.38	746.2	28.0	— 2.2	88	sw.	8	3.6		0	8 s		sw.	0.94	23.9	cloudy	J. C. Rickli.
Elliott, Fort, Texas	27.15	689.6	30.08	764.0	22.2	— 5.4	87	s.	3	1.3		0	0			0	0	clear	J. O'Dowd.
El Paso, Texas	26.36	669.5	30.24	768.1	21.6	— 5.8	87	calm	0	0		0	1 s			0	0	clear	C. A. Shaw.
Erie, Pennsylvania	29.02	737.1	29.79	756.7	12.0	—11.1	89	sw.	20	8.9			10 n			0.73	18.5	light snow	L. M. Pindell.
Escanaba, Michigan	28.88	733.5	29.60	751.8	0.0	—17.8	72	w.	20	8.9		8 ck	0	w.		inap.	inap.	cloudy	J. B. Campbell
Fort Smith, Arkansas	29.80	756.9	30.30	769.6	16.2	— 8.8	87	e.	4	1.8		6 cs	0	s.		0	0	fair	E. O'C. Macinerney
Galveston, Texas	30.30	769.6	30.31	770.6	45	7.2	83	se.	4	1.8		0	5 s			0	0	fair	Joseph E. Mueller.
Grand Haven, Michigan	29.02	737.1	29.73	755.1	10.0	—12.2	80	sw.	40	17.9			10 s			0.24	6.1	light snow	Chas. A. Read.
Grant, Fort, Arizona	25.25	641.3	30.15	765.8	28.7	— 1.8	69	sw.	3	1.3			10 s			0	0	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.07	763.8	30.08	764.0	33.0	0.6	68	nw.	26	11.6			10 k		n.	0.02	0.5	cloudy	R. M. Crawford.
Helena, Montana	25.69	652.5	30.07	763.8				n.	4	1.8			10 s			1.29	32.8	cloudy	**S. W. Morrison.**
Huron, Dakota	28.83	732.3	30.37	771.4	—17.8	—27.7	74	nw.	5	2.2		0	0			inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.21	741.9	30.05	763.3	6.5	—14.2	62	w.	8	3.6		8 ck	0	w.		0.03	0.8	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.28	769.1	30.31	769.9	36.2	2.3	67	w.	10	4.5		0	3 s		w.	0	0	clear	I. A. Reed.
Jacksonville Florida	30.34	770.6	30.39	771.9	31.0	— 0.6	88	nw.	8	3.6		2 cs	0			0.04	1.0	clear	J. W. Smith.
Keokuk, Iowa	29.45	748.0	30.15	765.8	4.2	—15.4	79	w.	1	0.4		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.25	768.5	30.27	768.8	58	14.4	70	n.	24	10.7			10 ks		n.	0.42	10.7	cloudy	**A. W. Browne.**
Kittyhawk, North Carolina	30.08	764.0	30.10	764.5	29.0	— 1.7	67	nw.	27	12.1		6 ck	0			0	0	fair	**Wesley Blake.**
Knoxville, Tennessee	29.19	741.4	30.27	768.8	17	— 8.3	74	sw.	6	2.7		0	1 s			inap.	inap.	clear	J. A. Cody.
La Crosse, Wisconsin	29.13	739.9	29.97	761.2	—10	—23.3	50	w.	10	4.5		0	0			0	0	clear	S. C. Emery
Leavenworth, Kansas	29.32	744.7	30.28	769.1	10	—12.2	68	n.	9	4.0		5 c	0			0	0	fair	T. S. Outram.
Lewiston, Idaho	29.14	740.1	30.01	762.2	27.1	— 2.7	82	calm	0	0			10 n			0.42	10.7	heavy snow.	C. E. Butler.
Little Rock, Arkansas	30.00	762.0	30.33	770.4	22.0	— 5.6	73	calm	0	0		0	0			0	0	clear	**W. U. Simons.**
Los Angeles, California	29.73	755.1	30.13	765.3	53.6	12.0	33	ne.	10	4.5		5 cs	0			0	0	fair	T. S. Collins.
Louisville, Kentucky	29.58	751.3	30.17	766.3	18.0	— 7.8	72	sw.	13	5.8		0	0			inap.	inap.	clear	L. M. Dey.
Lynchburg, Virginia	29.30	744.2	30.02	762.5	24.0	— 4.4	61	sw.	5	2.2		0	0			0	0	clear	**Jno. Healy.**
Mackinaw City, Michigan	28.74	730.0	29.44	747.8	13.0	—10.6	89	w.	16	7.2			10 s		w.	0.75	19.0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.13	765.3	30.14	765.5	30.0	— 1.1	56	nw.	20	8.9			10 s		sw.	0.02	0.5	cloudy	William Daly.
Maginnis, Fort, Montana					— 5.6	—20.9	68	n.	4	1.8			10 n		ne.	0.15	3.8	light snow	F. Burke.
Marquette, Michigan	28.80	731.5	29.58	751.3	3.5	—15.8	72	nw.	18	8.0			10 s		nw.	0.02	0.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.97	761.2	30.33	770.4	20	— 6.7	76	calm	0	0		0	3 s		s.	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.03	737.3	29.83	757.7	— 2.0	—18.9	81	nw.	25	11.2		0	0			0	0	clear	**S. W. Rhode.**
Mobile, Alabama	30.38	771.6	30.42	772.7	24.6	— 4.1	80	nw.	2	0.9		1 c	0			0	0	clear	H. U. Jones.
Montgomery, Alabama	30.15	765.8	30.39	771.9	22	— 5.6	87	calm	0	0		3 cs	0			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.21	741.9	30.32	770.1	—32	—35.6	100	n.	5	2.2		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	22.80	579.1	29.43	747.5	— 1.0	—18.3	100	w.	75	33.5			fg.		w.	0.36	9.1	dense fog	**Edwd. A. Beals.**
Nashville, Tennessee	29.67	753.6	30.28	769.1	19.0	— 7.2	84	sw.	8	3.6		0	0			inap.	inap.	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.62	752.3	29.74	755.4	22.5	— 5.3	69	sw.	13	5.8		0	0			0.98	24.9	clear	J. H. Sherman.
New London, Connecticut	29.73	755.1	29.78	756.4	26.0	— 3.3	77	sw.	16	7.2		0	5 s		sw.	0.84	21.3	fair	J. G. Lynch.
New Orleans, Louisiana	30.36	771.1	30.42	772.7	33.5	0.8	64	nw	4	1.8		4 c	0			0	0	fair	M. Herman.
New York, New York	29.66	753.4	29.85	758.2	23.0	— 5.0	73	sw.	17	7.6		0	7 s		sw.	0.85	21.6	fair	H. J. Peurod.
Norfolk, Virginia	30.00	762.0	30.02	762.5	30.0	— 1.1	65	w.	14	6.3		hz.	0			0.03	0.8	clear	Wm. Davis.
North Platte, Nebraska	27.11	688.6	30.23	767.8	3.1	—16.1	100	ne.	8	3.6		0	5 s			0	0	fair	**Mc Lean.**
Olympia, Washington T'y	29.93	760.2	29.97	761.2	42.0	5.6	82	s.	1	0.4			10 n			0.14	3.6	light rain	J. Dascomb
Omaha, Nebraska	29.66	738.1	30.33	770.4	— 3.0	—19.4	68	n.	12	5.4		0	0			0	0	clear	A. Pollak
Oswego, New York	29.25	742.9	29.60	751.8	26.0	— 3.3	39	sw.	24	10.7		0	9 k		w.	0.40	10.2	cloudy	J. G. Linsley.
Palestine, Texas	29.70	754.4	30.28	769.1	33.0	0.6	78	s.	5	2.2			10 s			0	0	cloudy	**P. T. Jenkins.**
Pensacola, Florida	30.41	772.4	30.44	773.2	25.1	— 3.8	69	nw.	1	0.4		2 cs	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	29.79	756.7	29.90	759.4	26.0	— 3.3	51	nw.	8	3.6		0	0			0.34	8.6	clear	T. F. Townsend.
Pike's Peak, Colorado	17.38	441.4	30.08	764.0	— 4.0	—20.0	79	nw.	64	28.6		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.07	738.4	29.92	760.0	16.0	— 8.9	83	sw.	18	8.0		0	4 s		sw.	inap.	inap.	fair	**O. D. Stewart.**
Poplar River, Montana					—30.1	—34.5	100	w.			1	0	0			0	0	clear	**G. A. Carden.**
Port Huron, Michigan	28.92	734.6	29.65	753.1	5.5	—14.7	92	sw.	27	12.1			10 s			0.20	5.1	cloudy	M. H. Perry
Portland, Maine	29.43	747.5	29.48	748.8	24.0	— 4.4	73	sw.	11	4.9		0	0			0.74	18.8	clear	W. W. Eichelberger.
Portland, Oregon	29.89	759.2	29.96	761.0	47.2	8.4	86	s.	12	5.4			10 n			0.17	4.3	light rain	M. L. Hearne.
Prescott, Arizona	24.85	631.2	30.23	767.8	27.0	— 2.8	76	calm	0	0		0	3 s			0	0	clear	N. D. Lane.
Provincetown, Mass.	29.62	752.3	29.65	753.1	20.8	— 2.9	79	w.	17	7.6		2 cs	1 s	w.	w.	1.42	36.1	clear	C. N. Kitchel.
Red Bluff, California	29.86	758.4	30.23	767.8	44	6.7	83	calm	0	0			10 ks		n.	0	0	cloudy	J. R. Williams.
Rio Grande City, Texas	30.15	765.8	30.40	772.1	31.6	— 0.2	36	ne.	1	0.4		3 cs	0			0	0	clear	**L. G. Schultz.**
Rochester, N. Y.	28.92	734.6	29.63	752.6	16	— 8.9	83	w.	30	13.4			10 n			0.13	3.3	light snow	**E. W. McGann.**
Roseburg, Oregon	29.52	749.8	30.09	764.3	43.1	6.2	89	calm	0	0		0	9 s		sw.	inap.	inap.	cloudy	J. J. Naury.
Sacramento, California	30.17	766.3	30.25	768.3	42.5	5.8	83	n.	2	0.9			10 s		w.	0	0	cloudy	J. A. Barwick
St. Louis, Missouri	29.56	750.8	30.22	767.6	20.5	— 6.4	75	sw.	16	7.2		0	1 s			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.47	748.5	29.51	749.5	18	— 7.8	100	se.	6	2.7			10 s		se.	0	0	cloudy	**Fred. H. Clarke.**
St. Paul, Minnesota	29.19	741.4	30.13	765.3	—11.5	—24.2		nw.	12	5.4		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.32	744.7	30.30	769.6	—35	—37.2	100	nw.	6	2.7		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.68	652.3	30.25	768.3	27.5	— 2.5	64	e.	3	1.3			10 n			0.36	9.1	light snow	J. Craig.
San Diego, California	30.05	763.3	30.12	765.0	45.0	7.2	57	ne.	2	0.9		0	0			0	0	clear	F. R. Day.
Sandusky, Ohio	29.15	740.4	29.87	758.7	8	—13.3	76	sw.	22	9.8		0	0			0.02	0.5	clear	B. F. Hough.
Sandy Hook, New Jersey	29.82	757.4	29.85	758.2	24.0	— 4.4	73	w.	38	17.0		2 ck	0			1.14	29.0	clear	**V. P. Chappel.**
Sanford, Florida	30.32	770.1	30.37	771.4	33.5	0.8	83	nw.	12	5.4		0	7 s		nw.	0.01	0.3	fair	J. B. Marbury
San Francisco, California	30.14	765.5	30.21	767.3	47.7	8.7	91	s.	7	3.1			10 s		nw.	0.03	0.8	threatening	N. Gorom.
Savannah, Georgia	30.25	768.3	30.35	770.9	27.5	— 2.5	59	nw.	11	4.9		0	1 s		sw.	0.03	0.8	clear	**R. M. Geddings.**
Shaw, Fort, Montana	26.41	670.8	30.27	768.8	— 5	—20.6	100	ne.	2	0.9			10 n			0.17	4.3	light snow	**A. L. Mathews.**
Shreveport, Louisiana	30.05	763.3	30.30	769.6	23.0	— 5.0	51	se.	3	1.3		0	4 s		s.	0	0	fair	**E. N. Meekins.**
Sitka, Alaska	29.57	751.1	29.64	752.8	45.6	7.6	63	e.	16	7.2		0	4 ks		e.	0	0	fair	F. W. Flickett.
Smithville North Carolina	30.15	765.8	30.19	766.8	28.2	— 2.1	73	nw.	11	4.9			9 s		sw.	0.07	1.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.																			**D. Moore.**
Springfield, Illinois	29.43	747.5	30.16	766.1	5.7	—14.6	80	w.	9	4.0			0			inap.	inap.	clear	T. B. Jennings.
Stockton, Fort, Texas	27.02	686.3	30.16	766.1	44.0	6.7	86	sw.	20	8.9		0	5 s			0	0	fair	**J. W. Byram.**
Tatoosh Id., Wash. Ter	29.72	754.9			43.1	6.2	98	sw.	2	0.9			10 n			0.64	16.3	light rain	**R. Connor.**
Thomas, Camp, Arizona	27.40	695.9	30.23	767.8	23.5	— 4.7	80	s.			1		10 s			0	0	cloudy	**R. C. Lord.**
Toledo, Ohio	29.11	739.4	29.85	758.2	5.5	—14.7	87	w.	21	9.4		0	0			0.34	8.6	clear	**A. Buell.**
Unalaska, Alaska	29.15	740.4	29.17	740.9	34	1.1	88	s.	2	0.9		0	7 s			0.27	6.9	fair	Samuel Applegate.
Vicksburg, Mississippi	30.14	765.5	30.41	772.4	23.8	— 4.6	74	s.	2	0.9		0	0			0	0	clear	**C. Dill.**
Washington, D. C.	29.87	758.7	29.99	761.7	22.1	— 5.5	86	sw.	6	2.7		3 cs	0	sw.		0.10	2.5	clear	T. B. Harrison.
West Las Animas, Colorado	25.91	658.1	30.04	763.0	8	—13.3	89	sw.	1	0.4		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.17	766.3	30.23	767.8	32.0	0.0	60	w.	8	3.6			10 s		sw.	0.04	1.0	cloudy	**L. H. Albrecht.**
Yankton, Dakota	28.94	735.1	30.36	771.1	—13.8	—25.4	70	n.	12	5.4		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	30.01	762.2	30.16	766.1	42.5	5.8	43	n.	1	0.4		0	7 s		nw.	0	0	fair	**W. S. Delano.**
Sub-series.																			
Behring Island, Kamchatka	29.35	745.5	29.37	746.0	31.6	— 0.2	86	ne.	12	5.4			10 n			inap.	inap.	snowing	**George Cherulck.**
Bluefields, Nicaragua, C. A.					73	22.8		nw.			4	1 cs	4 k	s.	ne.	0.70	17.8	fair	W. H. Jackson.
Bogota, U. S. C.	22.02	559.2			52.7	11.5	90	se.	2	1			10 pk		sw.	0.130	3.3		Joaquim Gomez.
Chimo, Fort, Ungava, B. A.	29.93	760.2	30.09	764.3	— 9	—22.8	100	ne.	11	4.9			10 s		ne.	0	0	cloudy	**L. M. Turner.**
Kingston, Jamaica, W. I.			30.12	765.0	69.2	20.7	82	n.	1	0.4		2 cs	0	e.		0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77	25.0	91	e.			2	4 c	5 k	e.	e.	0.060	1.5	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.46	748.3	30.02	762.5	78	25.6	89	calm			0		9 ks		s.	0.02	0.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					73.4	23.0	90	nw.			2	1 cs				0	0	clear	Earl Flint.
York Factory, B. A.	30.12	765.0	30.19	766.8	—23.0	—30.6		n.	16	7.2		3 k	3 s	nw.	nw.	0	0	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.99	761.7	30.00	761.9	80.6	27.0	79	n	12.5	5.6		0	6 k		n.			fair	P. Fashan.
Naos, Bay of Panama	29.94	760.4	30.00	762.1	71.5	23.6	88	n.			4	0	1 k		n.			clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 47° 56′. W. 30° 30′ †	29.16	740.7				nne.			7		8		nnw.	6 h'r	6 h'r	h'vy	ne.	cloudy.
S. S. Alvo, Port Limon, Costa Rica, C. A*	30.00	762.0	72	22.2		e.			3		4		calm	o	o	short	ene.	fair.
S. S. Alleghany. N. 40° 30′, W. 72° 10′ †	29.79	756.7	28	— 2.2		w			9		2		nw.	o	o			clear.
Bg. Abbie Clifford, N 40° 50′. W. 68° 34′ *†	29.57	751.1	35	1.7		wsw.			6		8	sw.	w.	3 h'r	3 h'r	r'gh	w;sw	cloudy.
Schr. Anna A. Holton, N. 30° 52′, W. 78° 53′ *†	30.21	768.1	52	11.1		wnw.			6		8		nw.	3 h'r	3 h'r	r'gh	nw.	cloudy.
S. S. Alps, Aux Cayes, Hayti, W. I			80	26.7		calm			0		0			o	o	sm'h		clear.
S. S. British Prince, N 51° 29′ W. 10° 21′			54	12 2		sse.			5		5		s.	15 h'r	15 h'r	mod.	se.	hazy
S. S. Cienfuegos. St Jago, Cuba, W. I	30.10	764.5	73	22.8		calm			0		0			o	o			clear.
S. S. Caracas, La Guayra, Venezuela *†	30.01	762.2	77	25.0	86	ne.			2		3		ene.	¼ hr	¼ hr	mod.	ne.	fine.
S. S. Canada, N 47° 48′ W. 40° 53′	29.55	750.6	42.8	6		nw.			6				nw.	rain	rain	large	nw.	cloudy
S. Cornelius, N. 32° 19′, W. 71° 06′ *†	30.03	762.7	63.5	17.5		wnw.			5		10		wnw.	4 h'r	4 h'r	cross	w.	cloudy.
Bk. Diamant, N. 40° 58′, W. 42° 55′	29.98	761.5	48.4	9.1	70	nnw.			6		5		n.			6	n.	clearing.
S. S. Dorian, N. 37° 18′, W. 1° 06′	30.29	769 4				var.					10		sw.	o	o	sm'h		cloudy.
S. S. Denmark, London, Eng†	29.94	760.5	51	10.6	93	sw.			4		8		sw.	4 h'r	4 h'r			cloudy.
Bk. Don Quixote, N 51° 01′, E. 1° 14′	30.00	762.0	46	7.8		ssw.			3		8		wsw.	2 h'r	2 h'r	sm'h		hazy.
S. S. Fulda, N. 49° 27′, W. 12° 01′	29.55	750.6	55.4	13.0	94	s.			4		4		ssw.	7 h'r	7 h'r	mod.	e.	fair.
Bk. Gipsy Queen, Matanzas, Cuba, W. I *†	30.20	767.1									10			24 h'r	24 h'r			raining.
Bk. Ibis, N. 33° 02′. W. 77° 04′			50	10.0		nw.			6		7		nw.	o	o	large	nw.	clearing.
S. S. Iowa, N. 48° 31′. W. 37° 05′ †	29.51	749.5	47	8.3		nw.			6		7		nw.	6 h'r	6 h'r	high	nw.	squally.
Schr. Jas. Slater, N. 22° 11′, W. 63° 38′ *†	30.19	766.8	80	26.7		e.			4		0			o	o	mod.	n.	clear
Bg. Lilian. N 33° 56′, W. 74° 30′†	30.01	762.2	51	10.6		w					10		wnw.	3 h'r	3 h'r	r'gh		cloudy.
S. S. Leipzig, N. 35° 12′, W. 16° 23′	29.92	760.0	67	19.4	94	sw.			4		6		sw.	o	o	long	w.	fair.
Bg L. F. Munson, N. 29° 55′, W. 69° 00′ *†	30.05	763.3	70	21.1		nw.			4		8		nw	shr's	shr's	r'gh	sw.	cloudy.
S. S. Mentmore, N. 50° 10′, W. 31° 44′			48	8.9		n.			9		10			14 h'r	14 h'r	mod.	nw.	stormy.
Bk. Matilda C. Smith, N. 27° 09′, W. 57° 05′ *†	30.25	768.3				calm			0		1			o	o	mod.	n.	clear
Schr. Maggie Abbott, Port Liberte, Hayti, W I *†	30.00	764.3							2		2			o	o			clear.
Bg. Matthias, N. 31° 42′, W. 42° 06′*†	30.18	766.6	60	15.6		nnw.			4-5		8		n.	o	o	5	n.	fair.
S. S. New York, N. 28° 30′, W. 79° 45′ *†	30.30	769.6	52	11.1		n.			7		8		n.			h'vy	n.	cloudy.
S. S. Necker, N. 47° 37′ W. 42° 03′	29.67	753.6	40.0	4.4	82	wnw.			7		8		nw.	rain	rain	r'gh	nw	cloudy.
S. S. Nova Scotian, N. 51° 54′, W. 13° 31′	29.42	747.3	53	11.7		se.			4		10		se.			mod.	s.	light rain.
S. S. Olbers, N. 13° 41′, W. 51° 41′	30.11	764.8	75	23.9	95	ne.			6		9		ne.	24 h'r	24 h'r	mod.	ne.	raining.
S. S. Olinde Rodrignes N. 47° 42′, W. 27° 06′ *†	28 86	733.0	55	12.8		sw.			6		7		w.	20 h'r	20 h'r	long	sw.	fair.
S. S. Pavonia, New York, N. Y	29.83	757.7	31	— 0.6	79	w.			6		3		nw.	5 h'r	5 h'r	sm'h		clear.
S. S. Piqua, Valencia, Spain *†	30.25	768.3	58	14.4	100	calm			0		10			o	o			overcast.
S. S. Rhynland, N. 50° 09′, W. 33° 10′	29.19	741.4	50	10.0	78	nne.			6		7		ne.	o	o	r'gh	nne.	fair.
S. S. Republic, N. 41° 33′, W. 65° 38′*†	29.50	749.3	31	— 0.6		nw.			8		9		nw.	10 h'r	10 h'r	h'vy	nw.	snowing.
S. S. Rosse, N. 44° 16′, W. 51° 16′			42	5.6		sse.			6		10			4 h'r	4 h'r	long	nne.	raining.
Bk. Rosina, N. 23° 52′, W. 47° 42′	30.24	768.1	73	22.8		nnw.			1		0			o	o	h'vy	nnw.	clear.
S. S. Sardinian, N. 47° 49′, W. 48° 34′	29.80	756.9	26	— 3.3		w.			5		10		sw.	snow	snow	long	n.	cloudy.
Bk. Sunbeam, N. 40° 05′, W. 73° 50′ *†	29.80	756.9	30	— 1.1	78	w.			8		3		w.	o	o	sm'h		clear.
S. S. Scythia, N. 47° 32′, W. 38° 00′	29.51	749.5	50	10.0	93	nw.			5		8		nw.	3 h'r	3 h'r	high	nw.	cloudy.
S. S. St. Albans, N. 29° —′, W. 46° —′*	30.11	764.8	70	21.1		w.			4		3		wnw	o	o	long	nw.	fair.
S. S. Thingvalla, Copenhagen, Denmark			30.2	— 1.		ssw.			2									
Bg. Teneriffe, N. 33° 50′, W. 76° 00′	30.05	763.3				wnw.			6		10		sw.			5	var.	cloudy.
Schr. Viola Reppard, N. 35° 52′. W. 72° 01′ †	29.95	761.7				wnw.			6		10		wnw.	4 h'r	4 h'r	large	sw.	cloudy.
S. S. Westphalia, Hamburg, Germany			34	1.1	90	se.			2		10		s.	o	o			cloudy.
S. S. Andes, Mayaguez, Porto Rico *†	30.15	765.8	82	27.8		var.					2		ne.	o	o	sm'h		clear.
Bk. Ariadne, N. 24° 02′, W. 58° 40′	30.26	768.6	72	22.2		e			3		4		e.	½ h'r	½ h'r	mod.	ne.	fair.
Schr. Annie R. Lewis. N. 28° 31′, W. 65° 39′			70	21.1		s.			3		1		sw.	sh'rs	sh'rs	mod.	sse.	clear
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.27	768.8				n.			4		9		n.	10 h'r	10 h'r	r'gh	ne.	stormy.
U. S. S. Alliance, Port au Prince, Hayti, W. I	30.09	764.3	74	23.3	90	calm			0		2		calm	o	o	sm'h		clear.
S. S. Bothnia, N. 50° 55′, W. 20° 37′	29.06	738.1			94	sse.			4		2		se.	3 h'r	3 h'r	mod.	se.	hazy.
S. S. Chalmette, New York. N.Y †	29.84	757.9	26	— 3.3		w.			6		6		wnw.	o	o			fair.
Schr. Ellen Crusoe, Mayaguez, Porto Rico *†	30.14	765.5				ne.							e.	2 h'r	2 h'r			fine.
Bg. John Welsh, jr, N. 25° 55′, W. 86° 38′						n.			4		5		n.			cross	nnw.	fair.
S. S. Lone Star, N. 38° 11′, W. 74° 40′ *†	29.93	760.2	32	0.0		w.			5		3		wsw.	o	o	r'gh	wsw.	clear.
S. S. Lord Clive, N. 39° 45′. W. 70° 46′						w.			6		10		w.	o	o	mod.	w.	cloudy.
S. S. Ontario, N. 48° 29′, W. 47° 05′	29.76	755.9	31	— 0.6		w.			3		10			o	o	high	ne.	overcast.
S. S. Orinoco, Bermuda, Atlantic			72	22.2		sw.			4		5		sw.	o	o			fine.
S. S. Rhaetia, N. 45° 45′ W. 24° 16′			45	7.2	92	nne.			7		7		nne.	o	o	hv'y	nne.	cloudy.
Bk. Saga, N 26° 35′, W. 24° 59′ *†	30.05	763.2	70	21.1		var.			0-4		3		var.	1¼ h'r	1¼ h'r	high	wnw	drizzling.
S. Storm King, N. 27° 15′, W. 38° 36′, *†	30.12	765.0				nw.			4		5		nnw.	4 h'r	4 h'r	long	nnw.	fair.
S. S. Salerno, N. 49° 09′, W. 20° 56′ †	29.25	742.9	48	8.9		s.			5		5		s.	o	o	rg'h	s.	fine.
U. S. S. Swatara, Port au Prince, Hayti, W.I	30.03	762.7	74	23.3	76	calm			0		1		calm			sm'h		clear.
U. S. S. Tennessee, Port au Prince, Hayti, W. I	30.14	765.5	73	22.8	85	calm			0		1			o	o			clear.
U. S. S. Vandalia, N. 12° 06′, W. 61° 10′	30.01	762.2	75	23.9	85	e.			4		10							raining.
S. S. Venetian, N. 47° 40′, W 42° 40′			36	2.2		wnw.			6-7				wnw.	light	light	hv'y	wnw.	rain & sleet.
S. S. Weser, N. 40° 49′, W. 56° 32′	29.73	755.1	64.4	18.0		sw.			5		10		sw.	6 h'r	6 h'r	r'gh	var.	misty.
S. S. Westernland, Jersey City, N. J	29.81	757.2	23	— 5.0		w.			4		10		w.	5 h'r	5 h'r			cloudy.
S. S. City of Berlin, N. 47° 30′, W. 43° 45′	29.06	753.4	34	1.1		nw.			5									cloudy.
U. S. Navy Yard, Portsmouth, N. H.*	29.48	748.8	22	— 5.6	86	nw.	23	10.3			0			2.00	50.8			clear.
U. S. S. Kearsarge, Villefranche, France	30.25	768.3	53	11.7	67	wnw.			2		10							cloudy.
U. S. S. Lancaster, Villefranche, France	30.28	769.1	53	11.7	73	w.			2		8			o	o	sm'h		cloudy.
U. S. S. New Hampshire, Newport, R. I	29.63	752.6	29	— 1.7	78	wsw.			6		5							fair.
U. S. S. Quinnebaug, Leghorn, Italy	30.21	767.3	48	8.9	70	ne.			2		0					sm'h		clear.
U. S. S. Shenandoah, N. 36° 17′. W. 54° 47′ *	30.11	764.8	67	19.4	95	ne.			3		10					mod.		cloudy.
U. S. S. Trenton, Gibraltar, Mediterranean	30.23	767.8	61	16.1	82	ssw.			0-1		10		nne.	sw.		sm'h		overcast.
H. M. S. Alexandra, Malta, Mediterranean	30.21	767.3	63	17.2	62	nne.			1		10							raining.
H. M. S. Alecto, N. 5° 05′. W. 1° 13′	29.84	757.9	85	29.4		s.			1				wsw.			3	ssw.	misty.
H. M. Dockyard, Bermuda, Atlantic	29.96	761.0				sw.			4		5		wsw.					d. clouds
H. M. S. Himalaya, N 37° 35′, W. 9° 00′	30.01	762.2	67	19.4		s.			3		7		wsw.			4	ssw.	d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.24	768.1	58	14.4	58	calm			0		8							d. clouds.
H. P. M. S. Douro, N. 0° 30′, E. 8° 01′	29.85	758.1	88.7	31.5	78	s.			4		3		se.			3	se.	d. clouds.
S. S. British Crown, N. 46° 43′, W. 47° 42′†	29.83	757.7	33	0.6		wsw.			2		3		w.	4 h'r	4 h'r	long	n.	clear.
S. S. Ohio, Liverpool, Eng			48	8.9	92	sw.			2		10		e.	12 h'r	12 h'r			overcast.
S. S Pennsylvania, N. 51° 24′, W. 9° 20′			51	10.6	100	sw.			3		9		wsw.	o	o			dense mist.
S. S. Devonia, N 48° 54′, W. 42° 58′†	29.64	752.8	42	5.6		wnw.			5		8		w.	3 h'r	3 h'r	h'vy	nw.	cloudy.
S. S. Bohemia, N. 50° 01′, W. 4° 03′						s.			3-6		9		s.	2 h'r	2 h'r	long	se.	cloudy.
S. S. Frisia, N. 49° 52′, W. 20° 05′			51	10.6		ssw.			5		2		ssw.	o	o	long	ssw.	fine.
S. S. Hevelius, N. 40° 38′ W. 13° 00′			67	19.4		sw.			8		3		wsw.	o	o	high	sw.	clear.
S. S. Archimede, N. 36° 46′, W. 54° 38′ †	30.15	765.8	72	22.2		sw.			4		4		sw.	o	o	r'gh	var.	fair.
S. S. Erin, Gravesend, Eng	29.98	761.5	46	7.8		sw.			4		8			o	o			cloudy.
S. S. Helvetia, N. 42° 09′ W. 50° 37′	29.87	758.7	41	5.0	100	se.			5		10					long	ne.	drizzling.
S. S. Waesland, Antwerp, Belgium	30.07	763.8	45	7.2		sse.			2		10		ese.	1 h'r	1 h'r			cloudy.
S. S. W. A. Scholten, Rotterdam, Holland*	30.06	763.5	37.4	3	97	wsw.			4		10		wsw.	o	o			cloudy.
S. S. State of Nevada, N. 40° 27′, W. 70° 29′			34	1.1		wnw.			6		8		wnw.	snow	snow	h'vy	wnw.	squally.
S. S. Saxon, N. 41° 20′, W. 71° 00′			30	— 1.1		wsw.			4		5		w; sw			short		fair.
S. S. Celtic, N. 45° 52′, W. 39° 51′ *†	29.60	751.8	42	5.6		wnw.			6		8		wsw.	o	o	h'vy	n.	squally.
S. S. Antonio Lopez, Cadiz, Spain	30.15	765.8	62	16.7	74	se.			4		3			o	o			fair.
Schr. Adda Doane, Savannah, Ga †	30.37	771.4				wnw.			3		2		nw.	1 h'r	1 h'r			clear.
Schr. Clotilde, N. 24° 04′, W. 91° 08′ †	30.34	770.6	64	17.8		n.			4		5		ne.	6 h'r	6 h'r	long	n.	fair.
Bk. Celestina, Cadiz, Spain *†	30.21	767.3				e.			4		2			o	o			fair.
Bk. C. S. Bushnell, N, 36° 28′, W. 7° 12′	30.20	767.1				var.			2		2		sw.	o	o	chop	nw.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind. Upper.	Amount and kind. Lower.	Direction. Upper.	Direction. Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. E. J. Spicer, Liverpool, Eng	29.82	757.4	47	8.3	100	ese.			3		10		ssw.	10 h'r	10 h'r			hazy.
S. E. B. Sutton, N. 20° 40′, W 39° 50′ *†	30.22	767.6	74	23.3	81	ene.			2		2		e.	light	light	light	nnw.	clear.
S. Hedwig, N 37° 29′ W. 10° 00′	30.05	763.3	63.7	17.6	98	ssw.			4		2		var.	1 h'r	1 h'r	4	wnw.	hazy.
Bk. Heinrich & Tonio, N. 39° 16′, W. 60° 00′*†	29.85	758.2	63	17.2	88	var.			5		10			15 h'r	15 h'r	r'gh	var.	rainy.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.47	773 9				wnw.			2		3		e.	0	0			fair.
Bg. John Wesley, N. 25° 51′, W. 79° 15′						s.			5		8		sw.	0	0	sm'h	s.	cloudy.
Schr. John L. Thomas, Hoboies Cays, C. A†	30.04	763.0	75	23.9	86	nw.			2		8		nnw.	0	0			threatening.
Bg. L & W. Armstrong, N. 29° 13′ W. 60° 17′†	30.18	766.6				sw.			3		1		s.	0	0	sm'h	ssw.	clear.
S. S. Laurel, Key West, Fla†	30.27	768.8	60	15.6		n.			4–5		10		n.	sh'rs	sh'rs			cloudy.
Bkt. Levanter, N. 11° 12′, W. 29 54′*	30.01	762.2	78	25.6		ene.			4		8		ene.	0	0	mod.	e.	cloudy.
S. S. Madrid, N. 36° 55′, E. 23° 38′†	30.17	766.3	55	12.8	87	n.			4		6		nne.	8 h'r	8 h'r	mod.	n.	fair.
S. S. P. de Satrastegui, N. 18° 47′, W. 65° 14′	30.15	765.8				e.			3		2			0	0	sm'h		clear.
Bg. Rising Sun, N. 36° 30′, W. 72° 48′ †	29.90	759.4	50	10.0		wnw.			6		10		wnw.	0	0	short	wnw.	
Bk. Rosalie, N. 19° 05′, W. 39° 47′						nne.			3		0			c	0	long	n.	clear.
S. Salisbury, N. 38° 01′, E 6° 06′	30.24	768.1	50.8	16.0	83	se.			3–4		4 k		se.	0	0	mod.	se.	fair.
S. S. City of Alexandria, N. 22° 38′, W. 85° 56′*†	30.19	766.8	70	21.1		nne.			6							h'vy	nw.	
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Montevideo, Uruguay *	30.18	766.6	66	18.9	68	n			2		2							clear.
U. S. S. Pinta, Maranham. Brazil	29.92	760.0	82	27.8	79	e.			3		5		e.					fair.
H. M. S. Amethyst, Montevideo, Uruguay	30.15	765.8	66.5	19.2	68	nne.			2		1	s.						blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.99	761.7	70	21.1		se.			4–6		1	ese.						blue sky.
H. M. S. Comus, S. 12° 30′, W. 22° 00′	30.03	762.7	76	24.4	82	e.			5		8					3	e.	d. clouds.
H. M. S. Opal, S. 2° 46′, E. 9° 42′	29.87	758.7	81	27.2	87	ese			2		6	ese.				2	ese.	d. clouds.
S. S. Sirius, S. 12° 56′, W. 38° 14′	30.00	762.0				e.			4		2		e.	1 h'r	1 h'r	mod.	ese.	clear.
S. S. Strassburg, S. 21° 01′, W 39 02′	30.09	764.3	80.0	26.7	72	ese.			3		8		ese.	19 h'r	19 h'r	3	ese.	clearing.
Bk. Chas. Stewart, S. 16° 40′, W. 28° 00′*†	30.15	765.8	80	26.7		ese.			5		2		e.	0	0	mod.	se.	clear.
Bg. Daphne, S. 2° 38′, W. 35° 49′*†	29.88	758.9	81	27.2	83	ese.			4		6		ese.	0	0	h'vy	ese.	threatening.
Bk. Horace Scudder, S. 11° 34′, W. 10° 21′*†	30.15	765.8	78	25.6		ese.			3		4		se.	0	0	h'vy	se.	clear.
S. Parker M. Whitmore, S 25° 58′, W. 22° 13′ *†	30.03	762.7	78	25.6		nnw.			4		2		nnw.	0	0	sm'h		clear.
S. David Stewart, Pernambuco, Brazil †.	29.80	756.9	85	29.4		se.			4		2		se.	0	0			
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.49	774.4	41	5.0	70	calm			0		0			0	0			clear.
U. S. S. Adams, Sitka, Alaska†	29.72	754.9	45	7.2	61	e.			4		2							clear.
U. S. S. Alert, Honolulu, Sandwich Islands	30.04	763.0	73	22.8	76	ne.			1		2		ne.					clear.
U. S. S. Essex, Canton, China	30.14	765.5	70	21.1	85	calm			0		10							overcast.
U. S. S. Juniata, Shanghai, China	30.19	766.8	55	12.8	93	calm			0		10		calm	light	light			cloudy.
U. S. S. Monocacy, Shanghai, China	30.18	766.6	56	13.3	87	se.			1		10		calm					cloudy.
U. S. S. Ranger, Panama, Panama	29.99	761.7	75	23.9	95	wnw.			1		2			0	0			fair.
U. S. S. Richmond, Shanghai, China	30.24	768.1	55	12 8	100	ese.			1		10		e.	0.70	17.8			misty.
H. M. S. Audacious, Hong Kong, China	30.13	765.3	68	20.0	79	e.			2		10	ene.						overcast.
H. M. S. Cleopatra, off Amoy, China	30.08	764.0	61	16.1		calm			0		4					sm'h		d. clouds.
H. M. S. Champion, N. 29° 20′, E. 122° 55′	30.22	767.6	64	17.8	83	ene.			2		10	calm				2	e.	d. clouds.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.91	759.7	79.5	26.4	82	nne.			1		10							thnd'r storm
H. P. M. S. Tamega, Macao, China	30.10	764.5	68.0	20.0	89	e.			4		10			1 h'r	1 h'r			overcast.
S. S. Oceanic, N. 32° 43′, E. 180° 00′	30.20	767.1	63	17.2	66	wnw.			3		4		w.	0	0	4	nw.	fair.
S. S. Columbia, N. 39° 17′, W. 124° 00′ *†	30.17	766.3	52.5	11.4	69	se.			3		10		se.			light	sse	cloudy
S. S. Oregon, N. 45° 48′, W 124° 11′			49.5	9.7	90	ssw.			2		10		s.			mod	wsw.	raining.
S. S. Willamette, N. 46° 17′, W. 124° 35′†	29.87	758.7	51	10.6	93	s.			3		10		s.	1.06	26.9	mod.	ssw.	rainy.
S. S. Alameda, N. 23° 07′, W. 155° 21′†	30.10	764.5	68	20.0	100	ene.			4		5		ne.	0	0	mod.	nw.	fair.
S. S. Ancon, San Francisco, Cal†	30.16	766.1	47	8.3	85	se.			2		9		s.	1 h'r	1 h'r			cloudy.
S. S. City of Chester, Cape Mendocino, Cal †	30.14	765.5	50	10.0	80	se.			6		10					long	sw.	
S. S. Orizaba, N. 33° 43′, W. 118° 15′ †	30.13	765.3	57	13.9	81	nw.			2		10		sw.	0	0	sm'h	nw.	cloudy.
S. S. Queen of the Pacific, New Tacoma, Wash. Terr†	29.95	760.7	47	8.3	92	se.			1		10		se.	8 h'r	8 h'r			foggy.
S. S. State of California, San Francisco, Cal.†	30.23	767.8	47	8.3	85	se.			2		10		se.					raining.
S. S. Australia, N. 5° 31′, W. 165° 20′			79	20.1		nne.			5		8		ese.			mod.	ne.	light rain.
S. S. City of Pekin, N. 28° 03′, E. 126° 53′†	30.28	769.1	67	19.4	89	sse.			5		5		se.			small	sse.	fair.
S. S. City of Tokio, N. 39° 45′, W. 152° 26′			49	9.4	85	wnw.			6		10		w.	18 h'r	18 h'r	h'vy	w.	squally.
S. S. Colima, Punta Arenas, Costa Rico†	29.98	761 5	76	24.4	64	nne.			3		6		nne.	0	0			fair.
S. S. Granada, N. 29° 00′, W. 117° 00′ †	30.18	766.6	61	16.1	77	ene.			1		0			0	0	light	ene.	clear.
S. S. George S Homer, N. 1° 10′ W. 121° 03′ *†	30.00	762 0				ese.			2		5		se.	0	0	mod.	se.	fair.
S. Grecian, N. 3° 27′, W. 123° —′ †	30.03	762.7	77	25.0	82	se.			6		5		se.	0	0	long	nw.	fair.
S. S. Radnorshire, N. 24° 26′, E. 118° 29′						ene.			3		1		ene.	0	0	light	ene.	clear.
District No. 4—South Pacific.																		
U. S. S. Hartford, Valparaiso, Chili *	30.03	762.7	62	16.7	100	calm			0		10					sm'h		cloudy.
U. S. S. Iroquois, S. 39° 21′, W. 87° 17′	29.92	760.0	63	17.2	83	nw.			4		2		nw.			long	nw.	clear.
U. S. S. Lackawanna, Valparaiso, Chili	30.03	762.7	61	16.1	88	calm			0		10							misty.
U. S. S. Onward, Callao, Peru *†	30.10	764.5	67	19.4	95	s.			1		10		se.			sm'h		cloudy.
U. S. S. Wachusetts, Callao, Peru*†	30.36	771.1	66	18.9	94	s.			1		8		calm			sm'h		cloudy.
H. M. S. Diamond, S. 33° 52′, E. 151° 14′	29.84	757.9	71	21.7	75	s.			2		4	sw.						d. clouds.
H. M. S. Lark, S. 30° 50′, E. 174° 48′	29.74	755.4	54	12.2	80	calm			0		2					1	sw.	d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.99	761.7	66	18.9		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.34	745.2	53	11.7	87	nw.			2–4		9							d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.44	747.8	51	10.6	86	calm			0		9							d. clouds.
S. S. City of Sydney, S. 33° 51′, E. 152° 46′*†	29.87	758.7	72	22.2	90	nne.			3	3 c		nne.				mod.	ne.	clear.
Bk. Alpheus Marshall, S. 10° 47′, E. 170° 58′*†	29.75	755.6	84	28.9	91	ese.			3		7		ese.	0	0	light	se.	fair.
Bk. Godeffroy, S. 44° 36′, W. 88° 47′	29.52	749.8	52.3	11.3	87	wnw.			5–6		6			rain	rain	mod.	nw.	fair.
S. St. Francis, S. 52° 48′, W. 85° 10′*†	29.18	741.2	48	8.9	63	wnw.			8		4		nnw.	1 h'r	1 h'r	mod.	nw.	fair.
S. St. David, S. 51° 11′, W 92° 34′ *†	29.40	746.7	52.3	11.3	79	sw.			6		7		sw.	3 h'r	3 h'r	rg'h	sw.	squally.
S. Henry Failing, S. 3° 58′, W. 123° 07′*†	29.99	761.7	75	23.9	86	ese.			4		8		ese.	0	0	sm'h	ese.	cloudy.
H. M. S. Espiegle, S. 36°, 50′, E. 176° 15′	29.64	752.8	59	15.0	88	sw.			2		2							d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Zanzibar, Zanzibar	29.86	758.4	86	30.0	80	ene.	4	1.8			5		e.	0	0	sm'h		fair.
U. S. S. Pensacola, S. 14° 55′, E. 80° 21′*	29.83	757.7	81	27.2	70	se.			4		2		calm	0	0	mod.	se.	clear.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	29.94	760.5	81	27.2	78	ne.			2		2					sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.91	759.7	78	25.6	86	n.			2		2	calm						blue sky.
H. M. S. Tourmaline, N. 18° 44′ E. 54° 34′	29.90	761.0	81	27.2	78	ene.			3							2	ese.	d. clouds.
S. S. Galatia, N. 22° 55′, E. 37° 01′†	30.01	762.2	74	23.3	76	nne.			2		8		ssw.	0	0	sm'h		cloudy.
S. S. Benalder, N. 7° —′, E. 77° 45′ *	29.94	760.5	82	27.8	83	ne.			5		0			0	0	mod.	ne.	clear.
S. S. Port Phillip, N. 26° 33′, E. 34° 39′*	30.13	765.3	70	21.1		nw.			1–2							sm'h		cloudy.
S. Carondelet, S. 34° 25′, E. 105° 38′ *†	30.14	765.5				nw.			3		4		nw.	0	0	sm'h	sw.	fair.
S. S. Lepanto, N. 16° 28′, E. 56° 59′			72	22.2		ene.			2		3		ene.	0	0	light	ne.	clear.

International Chart I. January 3, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 4, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. *Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.23	767.9	58.6	14.8	78	s.			1		5			0	0	cloudy	Roziere.
Algiers			30.28	769.0	62.2	16.8	76	w.			4		5			0	0	cloudy	Aubert.
La Galle			30.29	769.4	57.9	14.4	85	sse.			1		2			inap.	inap.	fair	Fonfrède.
Tunis			30.32	770.0	56.5	13.6	60	n.			3		1			0	0	very fair	Delord.
Tebessa					54.3	12.4	100	nnw.			3		0			0	0	clear	Hans.
Geriville					61.9	16.6	46	n			1		1			0	0	very fair	Forfert.
Laghouat			30.35	770.8	61.5	16.4	71	calm			0		0			0	0	clear	Abraham.
Biskra			30.34	770.7	50.7	10.4	48	calm			0		0			0	0	clear	Gouson.
Australian.																			
Adelaide, South Australia			29.94	760.5	63.7	17.6	60	calm	0	0		1 cs				0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.42	747.3	29.60	751.8				nnw.			1		6		nnw.	0	0	fair	Com. I. Short, R.N.
Melbourne, Victoria	29.78	756.4	29.88	758.9	64.8	18.2	69	s.	4	1.8			6			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.71	754.5	30.31	769.8	18.5	— 7.5	76	se.			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.21	741.8	30.01	762.2	30.9	— 0.6	92	w.	11.9	5.3			10			0.016	0.4		Dr. Wierzbiski
Eperies	29.26	743.3	30.22	767.7	15.1	— 9.4	94	se.			2		10			0.098	2.5	foggy	Julius Mikolik.
Gratz	28.91	734.3	30.20	767.1	28.8	— 1.8	68	sse.			2		10			0	0		Andreas Rospini.
Hermannstadt	28.78	730.9	30.34	770.6	15.4	— 9.2	94	se.			1		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.82	732.0	30.23	767.9	32.2	0.1	96	calm			0		10			0.661	16.8	raining	The Staff.
Lemberg	28.96	735.6	30.01	762.2	27.2	— 2.7	51	sw.			2		1			0.079	2.0		Dr. T. Stanecki.
Pola	30.10	764.5	30.21	767.4	46.6	8.1	64	wnw.			4		2			0	0		I. R. Hydrographic Office.
Szathmar	29.75	755.7	30.26	768.7	13.6	—10.2	93	e.			3		0			0.114	2.9		Joseph Midliusky, S. J
Szegedin	29.97	761.2	30.28	769.0	22.8	— 5.1		s.			2		10			0	0		Karl Stancel.
Trieste	30.16	766.1	30.26	768.6	46.4	8.0	45	calm			0		0			0	0		Royal Academy.
Vienna	29.47	748.4	30.24	768.1	20.5	— 6.4	100	calm			0		10			0.102	2.6	sleet & fog	I. R. Central Met. Obs'y.
Belgian.																			
Arlon					41.5	5.3	98	sw.			1		8			0.039	1.0	fog & mist	
Brussels	30.01	762.3	30.23	767.8	46.8	8.2	91	sw.			1		10		ssw.	0.016	0.4		
Furnes																0.039	1.0		
Maeseyck	30.06	763.6	30.19	766.8	46.6	8.1	92	wsw.			1		10			0.020	0.5	dense fog	
British.																			
Aberdeen	30.08	764.0	30.18	766.6	41.6	5.3	74	se.	20	8.9			9			0.335	8.5	overcast	W. Boswell.
Bidston, Liverpool Obs'y			30.06	763.5	51.0	10.6	89	sse.	1	0.4			7					d. clouds	John Hartnup.
Bolton, Sharples	29.54	750.3	30.08	764.0	46.5	8.1	99	ene.					10					foggy	Thomas Mackereth.
Bradford, Yorkshire	29.70	754.4	30.09	764.3	43.7	6.5	91	ne.			2		10			0.60	15.2	drizzling	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.00	762.0	30.03	762.7	80	26.7	74	ne.			3		5					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	29.93	760.2	30.05	763.3	48.4	9.1	96	sw.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	29.99	761.7	30.16	766.1	47.7	8.7	98	sw.			1		10			blank	blank	misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.86	758.4	30.09	764.3	53.6	12.0	89	s.			2		8					d. clouds	The Staff.
Fort Napier, Natal	27.75	704.8	30.06	763.5	74.5	23.6	70	e.			1		7					d. clouds	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	88	31.1	59	sw.			3		1					d. clouds	J. W. Smith.
Galway, Queen's College	29.81	757.2	29.85	758.2	44	6.7	92	sw.			1		7			0.17	4.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.24	768.1	30.29	769.4	60.0	15.6	88	e.			4		10					gloomy	Sgt. F. Norris, A. H. O.
Greenwich, Royal Obs'y	29.98	761.5	30.16	766.1	48.7	9.3	96	calm			0		10					overcast	The Staff.
Guernsey	29.87	758.7	30.18	766.6	51.0	10.6	96	s.			1		5			blank	blank	d. clouds	A. Coltenette, F.R.M.S.
Kew, Observatory	30.13	765.3	30.17	766.3	45.4	9.1	94	ssw.	1	0.4			10					misty	The Staff.
Leicester, Museum	29.85	758.2	30.11	764.8	49.8	9.9	93	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.13	765.3	30.21	767.3	54.2	12.3	61	ne.			2		6			0.19	4.8	d. clouds	Corpl. H. Keene, A. H. O.
Nassau, Bahamas	30.23	767.8	30.28	769.1	66.5	19.2	74	ne.			2		10					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.91	759.7	30.14	765.5	48.0	8.9	99	sse.			2		10					drizzling	The Staff.
Plymouth	30.02	762.5	30.10	764.5	53.0	11.7	97	sw.			2		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.10	764.5	30.20	767.1	38.3	3.5	90						6					d. clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.95	760.7	30.02	762.5	41.0	5.0	91	n.			1		10					raining	W. H. Lyne
Sheffield	29.82	757.4	30.11	764.8	46.9	8.3	96	calm			0		10			0.01	0.3	overcast	W. F. Cooper.
Silloth Rectory	30.01	762.2	30.04	763.0	42.6	5.9	98	e.			2		10			1.325	33.7	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.10	764.5	42.3	5.7	97	n.	6	2.7			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					49.0	9.4	93	sw.			0.5		10					drizzling	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.84	757.9	29.87	758.7	51.9	11.1	94	sse.	22	9.8			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.86	758.4	30.26	768.6	53.6	12.0	56	nw.	8.7	3.9		0	2 k			0.06	1.5	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.48	748.8	29.52	749.8	11.0	—11.7		sw.	12	5.4		0	1 ks			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.56	750.8	29.60	751.8	16	— 8.9	59	w.	12	5.4		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.51	749.5	29.57	751.1	10	—12.2	87	sw.	8	3.6		0	0			0.02	0.5	clear	G. A. Blair.
Cornwall, Ontario	29.57	751.1	29.79	756.7	1.8	—16.8	88	w.			3	0	1 s			0.200	5.1	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	29.43	747.5	29.48	748.8	8.5	—13.1		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	29.41	747.0	29.43	747.5	8	—13.3	91	w.	55	24.6		2 k	5 n	w.	w.	0.20	5.1	clearing	J. McWilliams.
Fort Garry, Manitoba*	29.69	754.1	30.71	780.0	—30	—34.4	74	n.	18	8.0			10 n			0	0	hazy	James Stewart.
Fredericton, N. B	29.61	752.8	29.71	754.6	10.1	—12.2	62	w.	10	4.5		0	0			0.220	5.6	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B	29.72	754.9	29.78	756.4	17	— 8.3	76	w.	25	11.2		0	5 s		w.	0	0	fair	J. Chipman Seeley
Granton, Ontario	28.88	733.5	30.14	765.5	— 6.8	—21.6	93	w.	12	5.4			10 n			inap.	inap.	overcast	Jas. Grant.
Halifax, N. S*	29.60	751.8	29.74	755.4	22	— 5.6	76	w.	15	6.7		0	8 k		w.	0.010	0.3	cloudy	A. Allison.
Hamilton, Ontario	29.59	751.6	30.03	762.7	— 2.6	—19.2	83	sw.			2	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.53	750.0	29.90	759.4	4	—15.6	65	w.	16	7.2		0	0			0.25	0.3	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.55	750.6	29.59	751.6	22.0	— 5.6	100	nw.			5	7 k	0	w.		0	0		C. H. Rigby.
London, Ontario	29.12	739.6	29.14	740.1	— 6.0	—21.1	96	w.			3	0	0			0	0		E. B. Reed.
Medicine Hat, N. W. T	28.25	717.5	31.06	788.9	—32	—35.6		nw.	2	0.9		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	28.45	722.6	30.83	783.1	—35	—37.2	100	nw.	1	0.4		0	0			0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.57	751.1	29.79	756.7	1	—17.2	76	w.	20	8.9		0	0			inap	inap.	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.53	750.0	29.78	756.4	— 0.2	—17.9	94	sw.				0	3 ks			0	0	blue sky	A. McCill, M. A.
Parry Sound, Ontario*	29.05	737.9	29.83	757.7	1	—17.2	66	n.	4	1.8			10 n		n.	0.55	14.0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.05	737.9	29.86	758.4	2.8	—16.2	57	sw.			3	3 c	0	sw.		0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.41	747.0	30.24	768.1	—22	—30.0	80	w.	10	4.5		0?	0?			0	0	fair?	W. P. Cooke.
Port Dover, Ontario	29.29	744.0	30.07	763.8	3	—16.1	100	w.	20	8.9		0	0			0.28	7.1	clear	H. Morgan.
Port Stanley, Ontario	29.42	747.3	30.15	765.8	— 2	—18.9	91	w.	24	10.7			8 k		w.	inap	inap.	cloudy	M. Payne.
Qu Appelle, N. W. T	28.29	718.0	31.17	791.7	—44	—42.2		nw.	5	2.2		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.24	742.7	29.63	752.6	4	—15.6	87	sw.	28	12.5		10 ck	0	w.		0.25	6.3	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.24	742.7	29.75	755.6	— 4	—20.0	83	nw.	8	3.6		5 cs	0	w.		inap.	inap.	fair	W. H. McIntyre.
St. Andrews, N. B	29.09	754.1	29.74	755.4	15	— 9.4	91	w.	16	7.2		0	0			0	0	clear	
St. John, N. B	29.60	751.8	29.76	755.9	14.0	—10.0	82	w.	24	10.7		0	1 k			inap	inap.	blue sky	G. Hutchinson.
Saint John's, N. F					31	— 0.6	100	sw.			3	0	0			0.02	0.5	clear	J. Higgins.
St. Pierre, N. F			29.53	750.0	35.2	1.8		sw.			7					0	0		The Commandant.
Saugeen, Ontario*	29.13	739.9	29.91	759.7	3	—16.1	91	w.					10 s			0.12	3.0	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.66	728.0	30.10	764.5	— 4.6	—20.3	100	w.			4		10 n			inap.	inap.	overcast	W. Mc Bride, M. A.
Sydney, C. B*	29.51	749.5	29.57	751.1	23	— 5.0	76	sw.	26	11.6		5 c	0	sw.		0.01	0.3	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.60	751.8	30.03	762.7	0	—17.8	83	sw.	30	13.4		0	0			inap.	inap.	clear	Magnetic Observatory.
Woodstock, Ontario	28.94	735.1	30.15	765.8	— 5.2	—20.7	89	?	27	12.1		3 c	0	w.		0.10	2.5	blue sky	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.73	755.1	29.80	756.9	23	— 5.0	76	w.	28	12.5			10 k		nw.	0.04	1.0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.91	759.7	29.94	760.5	74.0	23.3	95	nne.				0	0			0	0	hazy	I. Garfeit.
Cape Town, The Castle	29.82	757.4			93.8	34.3	26	se.				0	0			c	0		Capt. R. Gardner Warton
Springbok Fontein	27.90	708.6			99	37.2	29									0	0		J. T. Eustace
Chilian.																			
Coquimbo	30.05	763.2	30.13	765.2	62.6	17.0	90	n.			5	8 cs	0					fair	Samuel Redolez.
Iquique	29.97	761.3	30.00	762.0	71.1	21.7	79	sw.			2							foggy	Rafael Moreno.
Niebla	29.59	751.5	29.69	754.2	60.4	15.8	91	e.			1	0	2 n		nw.	0.094	2.4	fair	Federico Köhling.
Punta Caldera	29.86	758.4	29.95	760.6	67.3	19.6	85	se.			1	4 c	0	se.				fair	Manuel Tobar.
Punta Corona	29.85	758.3	30.04	763.0				w.			2	6 s	0	nw.		0	0	cloudy	Francisco Alvarado.
Valparaiso	29.93	760.1	30.06	763.6	64.0	17.8	78	sw.				0	0					clear	Puez-I-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.42	772.7	30.45	773.3	37.9	3.3	78	wnw.	13.4	6.0			10			0.169	4.3		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.15	765.8	30.20	767.0	31.3	— 0.4	81	ne.	13	6			9						Oversergent Fischer.
Fanöe	30.26	768.6	30.28	769.1	32.0	0.0	81	ne.			2		10						Overloerer Lauridsen.
Godthaab, Greenland	29.24	742.7	29.28	743.8	36.5	2.5	57	ene.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	30.14	765.5	30.18	766.6	29.1	— 1.6	86	e.			4		0						A. O. Thoriacius.
Thorshavn	30.29	769.4	30.32	770.0	37.6	3.1	76	e.	13	6			7						Overloerer Bergh.
Vestervig	30.12	765.1	30.22	767.5	33.3	0.7	98	ese.			2		9						Loerer Oesterool.
Egyptian.																			
Cairo	29.95	760.6			61.9	16.6		ne.	2.9	1.3		0	5 k			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.69	754.2	30.36	771.1	54.3	12.4	90	calm			0					0	0	misty	M. Labroue, Director.
Alençon, Normal School	29.84	758.0	30.39	772.0	48.2	9	94	sw.			4		10 k			0	0	covered	M. Nicot, Director
Arras, Normal School			30.25	768.3	42.8	6	91	se.			2		5	se.	s.	0.012	0.3	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.17	766.2	30.24	768.2	54.3	12.4	87	e.			1				ne.	0.134	3.4		M. Giraud, Director.
Bar-sur-Seine	29.70	754.4	30.27	768.8	50.0	10.0	86	ssw.			1		10			0.098	2.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.84	758.0	30.22	767.7	48.9	9.4	92	ene.			1		8			0.098	2.5	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.33	744.9	30.24	768.2	47.3	8.5	92	s.			1		10		s.			raining	M. Gobin, Director.
Bordeaux, Observatory	29.97	761.2	30.23	767.8	57.0	13.9	81	e.			1	2 c				0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.64	752.8	30.20	767.0	51.8	11	86	wsw.			1	ck		wsw.		0.138	3.5		M. Sauvageot, Director.
Brest, Naval Observatory	29.94	760.5	30.19	766.7	58.3	14.6	89	sw.			2		4		sw.	0.598	15.2		M. de Kermarée, Dir.
Caen, Normal School	30.11	764.7	30.18	766.0	50.7	10.4	95	ssw.			1–2		5		ssw.	0.024	0.6	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.89	759.3	30.22	767.6	51.8	11.0	87	sse.			1		2	nw.	nw.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.71	754.5	30.22	767.7	40.3	4.6	85	e.			1		0			0	0	clear	M. Noël, Director.
Clermont-Ferrand Obs'y	28.88	733.6	30.28	769.0	46.4	8.0	81	s.			1		10			0.169	4.3		M. Allnard, Director.
Cluny, Normal School	29.43	747.4	30.34	770.6	49.6	9.8	97	sw.			1		10		sw.	0.130	3.3		M. de Villemontée, Dir.
Commercy, Normal School	29.38	746.2	30.25	768.3	49.1	9.5	80	sw.			1	c	n	sw.	sw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.69	703.3	30.29	769.3	47.3	8.5	54	ne.			1		4 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.13	739.8	30.27	768.9	52.2	11.2	86	n.			1		9		ne.	0.189	4.8		M. Kina, Director.
Grenoble, Normal School	29.51	749.6	30.31	769.8	43.2	6.2	82	ne.			1		n		ne.	0	0		M. Allard, Director.
Guéret, Normal School	28.63	727.2	30.24	768.1	48.2	9	61	sw.			2		8 n		sw.	0	0	very cloudy	M. Delorme, Dir.
Lamballe, Normal School																			M. Polipre, Director
Lescar, Normal School	29.66	753.4	30.22	767.7	58.3	14.6	72	ene.			1		5 cs;n			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	764.6	30.21	767.2	55.8	13.2	82	se.			1		2	se	s.	0	0	¼ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.21	741.8	30.30	769.5	45.1	7.3	94	ene.			1					0.051	1.3	foggy	M. André, Director.
Mans, Normal School	29.92	760.0	30.24	768.1	45.5	7.5		sw.			1		10			0	0	foggy	M. Richard, Director.
Marseille, Observatory	29.95	760.6	30.22	767.5	57.9	14.4	78	e.			0–1		9		ne.	0.047	1.2		M. Stephan, Director.
Montlouis	24.99	634.8	29.84	757.8	46.4	8.0	52	se.	11.2	5.0			6	s.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.04	763.1	30.15	765.9	52.2	11.2	100	nne.			6		10			1.488	37.8	covered	M. Gulzin, Director.
Nancy, Normal School	29.40	746.8	30.19	766.9	46.0	7.8	91	sw.			1					0	0	foggy	M. Hasse, Director.
Nantes, Observatory	30.10	764.5	30.26	768.6	51.3	10.7	92	ese.			1		10 k			0	0		M. Larocque, Director.
Perpignan, Observatory	30.17	766.2	30.28	769.1	53.1	11.7	84	calm	0	0			10			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.36	542.5			32.7	0.4							5		w.	0.079	2.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.33?	745.0?	30.43?	772.8?	50.7	10.4	92	s.			1		10	s.	s.	0.047	1.2	misty	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.31	642.8			37.2	2.9	100	w.			3		10			0.181	4.6	foggy	M. Allnard.
Rochefort, Naval Obs'y	30.21	767.2	30.24	768.0	50.4	10.2	93	calm			0		10		w.	0	0	misty	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.00	762.0	30.22	767.6	48.9	9.4	97	se.			1		10			0	0	misty	M. Brotier, Director.
Rodez, Normal School	28.07	713.0	30.25	768.3	51.3	10.7		e.			1				sw.	0	0		M. Seger, Director.
Rouen, Normal School	30.17	766.4	30.22	767.6	49.6	9.8	92	nne.			1		2	nne.		0.256	6.5	slightly cl'dy	M. Mouillot, Dir.
St. Lô, Normal School			30.11	764.8	51.4	10.8	83	e.			1		10	sw.	sw.	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.06	763.6	30.23	767.8	50.2	10.1	81	sw.			1			nw.		0	0		M. Renou, Director.
Toulouse, Observatory	29.55	750.5	30.28	769.0	53.6	12.0	93	se.			1		5	nw.		0	0	cloudy	M. Baillaud, Director.
Tours	30.07	763.8	30.21	767.3	52.2	11.2	86	sse.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.73	755.1	30.22	767.6	51.8	11.0	83	s.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.10	764.4	30.24	768.2	56.7	13.7	73	e.	2.0	0.9		ck	9 k		w.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.75	730.2	30.26	768.5	39.9	4.4	93	calm			0		10			0	0		Prof. Juedt.
Bamberg	29.28	743.8	30.13	765.3	36.0	2.2	84	calm			0		10			0.024	0.6	rain & fog	Prof. Dr. Hoh.
Berlin	30.00	761.9	30.15	765.7	35.6	2.0	89	nw.			2		10			0.043	1.1		Meteorological Institute
Breslau	29.50	749.4	30.04	762.9	36.1	2.3	98	wnw.			4		10			0.067	1.7	raining	Royal University Obs'y
Carlsruhe	29.78	756.3	30.25	768.3	43.9	6.6	88	ssw.			1		10	sw.		0.087	2.2	light rain	Albert Senz.
Cassel	29.48	748.8	30.19	766.9	36.7	2.6	96	s.			1		10	s.		0.012	0.3		Dr. H. Möhl.
Frankfort-on-the-Main	29.85	758.3	30.24	768.0	37.9	3.3	93	s.			1		10			0.039	1.0		Physical Society.
Friedrichshafen	28.83	732.2	30.30	769.6	39.9	4.4	93	nw.			1		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.13	765.4	30.22	767.7	33.4	0.8	87	nnw.			2		10			0.067	1.7	foggy	E. Preller.
Kiel	30.20	767.1	30.22	767.5	34.5	1.4	80	n.			2		10			0.146	3.7		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.76	756.0	30.20	767.1	37.0	2.8	89	nw.			3		10	nw.		0.087	2.2		H. Leppig, Asst.
Magdeburg	30.00	762.0	30.20	767.1	34.5	1.4	91	nw.			2		10			0.043	1.1	foggy	Weather Observatory.
Memel	29.84	758.0	29.89	759.2	28.4	— 2.0	80	nne.			6		9 k						Issermann.
Munich	28.37	720.6	30.24	768.2	41.2	5.1	92	w.			2		10	sw.		0.154	3.9	light rain	Central Station.
Neufahrwasser	29.84	758.0	29.86	758.4	27.9	— 2.3	94	nw.			6		10			0.075	1.9	raining	A. Lothes.
Neustadt, Palatinate	29.65	753.2	30.18	766.6	41.9	5.5	83	w.			1		10			0	0	foggy	Dicknether.
Stuttgart	29.28	743.6	30.20	767.0	42.8	6.0	85	sw.			1		10			0.075	1.9		Prof. Dr. Schoder.
Wustrow	30.11	764.7	30.13	765.3	35.8	2.1	96	n.			4		10 s			0.130	3.3		Profs. Brandes & Reimer
Greek.																			
Athens	29.71	754.6	30.11	764.7	45.5	7.5		n.			1.0	0	5 k			.0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.03	762.6	30.08	764.0	72.9	22.7	39	e.	17.0	7.6			1			0	0	d. clouds	
Deesa	29.58	751.4	30.06	763.6	78.3	25.7	18	nw.	8.0	3.6			0			0	0	blue sky	
Bombay	29.97	761.3	30.01	762.3	76.9	24.9	69	wnw.	8.0	3.6			0			0	0	blue sky	
Poona, Yarrowda	28.14	714.9	30.02	762.4	76.5	24.7	29	e.	11.0	4.9			0			0	0	blue sky	
Belgaum	27.43	696.7	29.99	761.7	74.2	23.4	29	ene.	5.0	2.2			0			0	0	blue sky	
Lahore	29.36	745.7	30.14	765.5	62.6	17.0	57	calm	0	0			3			0	0	d. clouds	
Roorkee	29.18	741.1	30.12	765.0	62.8	17.1	57	calm	0	0			0			0	0	blue sky	
Agra	29.55	750.5	30.13	765.4	67.8	19.9	45	calm	0	0			0			0	0	blue sky	
Nagpur	29.00	736.6	30.07	763.8	71.2	21.8	43	calm	1.0	0.4			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.71	729.3	30.10	764.7	69.6	20.9	41	calm	0.9	0.4			0			0	0	blue sky	
Lucknow	29.81	757.3	30.21	767.4	63.3	17.4	55	calm	0	0			0			0	0	blue sky	
Allahabad	29.80	756.8	30.13	765.2	60.2	15.7	70	calm	0	0			0			0	0	blue sky	
Patna	29.93	760.2	30.13	765.2	64.4	18.0	55	w.	1.6	0.7			0			0	0	blue sky	
Hazaribagh	28.03	712.0	30.12	764.9	62.7	17.1	40	n.	6.0	2.7			0			0	0	blue sky	
Cuttack	30.02	762.4	30.10	764.5	68.7	20.4	58	e.	2.0	0.9			0			0	0	blue sky	
Calcutta, Alipore	30.06	763.4	30.08	764.0	64.7	18.2	61	nnw.	1.5	0.7			0			0	0	blue sky	
Dhubri	29.96	761.0	30.09	764.2	65.8	18.8	66	ene.	1.9	0.8			0			0	0	blue sky	
Chittagong	30.00	762.0	30.10	764.4	64.6	18.1	84	w.	1.7	0.8			0			0	0	blue sky	
Sibsagar	29.77	756.0	30.12	765.1	58.5	14.7	82	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.64	727.4	30.12	765.1	68.7	20.4	42	wnw.	0.7	0.3			0			0	0	blue sky	
Zanzibar	29.87	758.8	29.90	759.3	76.7	24.8	84	calm	3.2	1.4			8		ese.	0.67	17.0	drizzling	
Bellary	28.48	723.4			78.0	25.6	44	se.	8	3.6		3 ck	0			0	0	d. clouds	
Trichinopoly	29.68	753.9			78.7	25.9	70	ene.	0.2	0.04		5	5			0	0	overcast	
ITALIAN.																			
Udine	29.80	756.8	30.22	767.6	44.1	6.7	38	calm	0	0			7			0	0		Prof. Giovanni Clodig.
Milan	29.72	755.0	30.27	768.8	40.3	4.6	71	w	3.8	1.7			4	nw.		0.016	0.4		Prof. G.V.Schiapparelli
Padua	30.11	764.8	30.22	767.7	38.8	3.8	67	calm	0	0			3	n.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.32	744.6	30.27	768.8	37.8	3.2	86	n.	1.3	0.6			5	se.		0	0		Prof. F. F. Denza.
Genoa	30.06	763.6	30.26	768.6	49.1	9.5	78	calm	0	0			10	s.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.20	767.0	30.25	768.3	41.0	5.0	58	nnw.	6.3	2.8			0			0	0		Prof. Luigi Guidi.
Florence	29.97	761.3	30.24	768.0	38.1	3.4	67	ne.			2					0	0		Prof. Costantino Pittei
Leghorn	30.13	765.3	30.22	767.5	45.3	7.4	71	ne.	3.8	1.7			10			0	0		Prof. P. Monte.
Rome	30.07	763.8	30.25	768.4	46.4	8.0	37	n.	0	0			1			0	0		Prof. P. Tacchini.
Lecce	29.92	760.0	30.18	766.6	48.9	9.4	52	n.	8.7	3.9			1			0	0		Prof. C. de Giorgi.
Cosenza	29.33	744.9	30.25	768.3	44.2	6.8	71	se.	1.8	0.8			0			0	0		Prof. D. Conti.
Cagliari	30.08	764.1	30.28	769.1	54.5	12.5	71	w.			2		8			0	0		Prof. A. Pacinotti.
Palermo	29.99	761.7	30.24	768.2	54.0	12.2	52	nnw.	9.4	4.2			5	nnw.		0.043	1.1		Prof. G. Caccciatore.
Syracuse	30.13	765.4	30.18	766.6	54.3	12.4	63	nnw.	3.1	1.4			4	wnw.		0.028	0.7		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.70	754.4	30.24	768.2	48.4	9.1	46	nw.	0	0			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.09	764.3	30.12	765.0	34.0	1.1	77	se.			2		10 k		w.	0.106	2.7	cloudy	H. Hattori.
Awomori	30.02	762.5	30.06	763.5	37.0	2.8	77	ssw.	1.1	0.5		0	5s;ks			0.023	0.6	fair	K. Ogawa.
Hakodate	30.02	762.5	30.03	762.8	39.0	3.9	84	calm	0	0			10 s			0.348	8.8	raining	Y. Souma.
Hamamatsu	30.06	763.5	30.16	766.0	45.0	7.2	92	ne.			2		10 n			1.051	26.7	raining	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	29.95	760.7	29.96	761.1	42.7	5.9	99	ne.	0.6	0.3			10 n		s.	0.614	15.6	raining.	Y. Okamoto.
Kagoshima	30.09	764.3	30.10	764.6	58.5	14.7	90	nw.			4		10 s			0.154	3.9	overcast	
Kanazawa	29.90	759.5	30.01	762.2	39.0	3.9	90	ne.	5.8	2.6			10 n			0.195	5.0	raining	S. Endo.
Kioto	29.89	759.1	30.06	763.5	43.5	6.4	95	nw.	1.2	0.5			10 n			0.713	18.1	light rain	M. Tojima.
Kochi	30.06	763.4	30.08	763.9	46.3	7.9	99	nw.	3.9	1.7			10 n			0.640	16.3	raining	K. Kusunose.
Miasaka	30.05	763.2	30.07	763.9	51.0	10.6	94	wnw.			1		10 n		s.	0.087	2.2	raining	K. Masusaki.
Miyako	30.03	762.8	30.14	765.6	34.8	1.6	69	wsw.	0.7	0.3			10 s			0.074	1.9	cloudy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.87	758.7	30.07	763.8	55.9	13.3	85	nw.	8.4	3.8		0	7ks;s		nw.	1.090	27.7	cloudy	
Nemuro	30.02	762.5	30.07	763.8	28.0	— 2.2	80	calm	0	0		1 k	0			0	0	clear	A Shibuya.
Niigata	30.05	763.3	30.08	764.0	35.0	1.7	80	se.	6.2	2.8			10 s			0.290	7.4	covered	Satoo & Tomikawa.
Nobiru	30.14	765.6	30.16	766.0	30.3	— 0.9	81	nnw.	7.5	3.4		10 cs	0			0.125	3.2	covered	Yoshino & Midzushina.
Numadzu	30.15	765.8	30.19	766.7	44.0	6.7	83	calm			0		10 n			1.197	30.4	light rain	T. Ohgi.
Osaka	30.02	762.5	30.04	762.9	44.3	6.8	91	ne.	8.9	3.9			10 n			0.375	9.5	light rain	H. Omura.
Sakai	29.84	758.0	29.85	758.2	49.7	9.8	80	s.			2		10 n		ssw.	0.405	10.3	raining	Yamawchi & Sakamoto.
Sapporo	29.95	760.8	30.02	762.5	32.5	0.3	94	calm	0	0			10 s			0.005	0.1	covered	S. Kimura.
Shimonoseki	29.83	757.8	29.98	761.5	52.7	11.5	95	sw.			2		10 ks			0.177	4.5	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.10	764.5	30.18	766.5	37.8	3.2	77	nne.	4.9	2.1			10 s		sw.	1.000	25.4	cloudy	The Staff.
Wakayama	29.95	760.8	30.00	762.1	56.0	13.3	71	s.	12.2	5.5			10 s;n		w.	0.098	2.5	raining	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.77	756.1	29.96	761.0	82.7	28.2	63	n.	11.5	5.1		4cs;c	4 k;ks	w.		0	0	fair	The Staff.
MEXICAN.																			
Leon	24.37	619.0	30.32	770.1	38.7	3.7	84	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.87	758.7	30.14	765.4	67.0	19.4	60	ene.	0.9	0.4		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.21	767.3	30.21	767.3	44.2	6.8		s.			3					0.008	0.2		
Groningen	30.23	767.9	30.29	769.3	36.9	2.7		e.			1					0.102	2.6		
Helder	30.22	767.5	30.22	767.5	39.4	4.1		e.			2					0.161	4.1		
Hellevoetsluis	30.20	767.0	30.20	767.0	47.7	8.7	100	calm			0					0	0		
Utrecht	30.18	766.5	30.23	767.9	41.4	5.2	98	ese.			2		10			0.087	2.2	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.2			79.2	26.2	85	ne.	0	0			8			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.15	765.9	30.22	767.5	27.7	— 2.4	92	s.	2	1			4			0	0		
Brono	29.95	760.8	29.99	761.8	27.0	— 2.8	96	nw.			6		10			0.248	6.3	snowing	
Christiania	30.08	764.1	30.24	768.2	16.9	— 8.4	88	e.	4	2			5			0	0		
Gjæsvær	29.70	754.3	29.72	754.9	16.9	— 8.4		n.			6		9			0.106	2.7		
Lodingen	29.83	757.7	29.88	758.9	21.4	— 5.9	77	calm			0		10			0.142	3.6		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.80	756.8	29.88	759.0	60.1	15.6	88	w.	4.9	2.2			10			1.291	32.8	thud'rstorm	Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	757.0	30.14	765.6	58.1	14.5	80	ene.	1.3	0.6			4			0	0		The Staff.
Ponta Delgada, Azores	29.60	751.9	29.67	753.7	60.4	15.8	71	nw.	15.0	6.7			3			0.173	4.4		
Saint Paul de Loanda																			
St. Vincent, Cape Verd Ids.	29.99	761.8	30.02	762.6	72.3	22.4	84	ene.			5		2			0	0	light fog	
San Salvador, Congo	28.04	712.1	29.84	758.0	84.7	29.3	63	n.			1		8			0.709	18.0		
Serra da Estrella	25.39	644.9	30.24	768.0	39.9	4.4	100	ese.	29.3	13.1			10			0.480	12.2	light fog	
RUSSIAN.																			
Akmolinski	29.13	739.8	30.36	771.1	— 7.8	—22.1	100	sw.	13	6		3 c	6			0	0		Major K. Lasarew.
Archangel	29.62	752.4	29.64	752.9	—10.8	—23.8	87	ese.	2	1			10			0.091	2.3	foggy	Capt. Sselliwerstow.
Ashurada	30.39	771.8	30.29	769.4	49.3	9.6	79	n.	2	1			10 k			0	0		
Astrakhan	30.45	773.3	30.37	771.3	27.0	— 2.8	72	se.	7	3			9 s			0.118	3.0	light clouds	Capt. Wisganow.
Baku	30.33	770.3	30.28	769.1	45.9	7.7	88	ssw.	9	4		0	8 ks			0	0		
Barnaul	29.54	750.4	30.10	764.4	5.9	—14.5	100	sw.	22	10			10			0.098	2.5	snowing	Meteorological Office.
Bielosersk	29.00	736.6	29.48	748.9	23.9	— 4.5	96	ssw.	7	3			10 n			0.106	2.7		
Dorpat	29.24	742.6	29.49	749.1	20.5	— 6.4	74	nw.	13	6			10 n			blank	blank	light snow	Observatory.
Ekaterinburg	29.12	739.7	30.19	766.8	2.8	—16.2	81	wsw.	18	8		0	8			0	0		Meteorological Obs'y.
Elissawetgrad	29.67	753.7	30.16	766.0	21.9	— 5.6	90	sw.	2	1			10 n			0	0		
Kasan	29.76	755.8	30.05	763.3	12.9	—10.6	90	sse.	11	5			10			0	0		Observatory.
Kem	29.73	755.1	29.78	756.4	— 3.3	—19.6	87	nw.	18	8		0	1 ks			0	0		
Kertch	30.15	765.9	30.18	766.5	27.0	— 2.8	100	calm	0	0			10 n			0	0		Lagorio & Sastyrea.
Kieff	29.35	745.4	30.03	762.7	21.9	— 5.6	98	ssw.	4	2			10 n			0	0		Observatory.
Koslov	29.47	748.6	30.00	762.1	24.1	— 4.4	89	ssw.	16	7			10 s			0.035	0.9		
Lgov	29.45	748.0	30.07	763.8	24.1	— 4.4	91	wsw.	13	6			10			blank	blank		R. I. Ssaweljew, Engin'r.
Libau	29.86	758.5	29.89	759.1	28.6	— 1.9	77	ne.	11	5			10			0.350	8.9		E. Quass.
Lugan	30.00	762.0	30.22	767.6	18.9	— 7.3	87	s.	4	2			10			0	0		Meteorological Obs'y.
Moscow	29.29	743.9	29.79	756.7	24.3	— 4.3	91	sw.	11	5			10 n			0.008	0.2		Meteorological Obs'y
Nertschinsk	27.71	703.7	30.32	770.0	—11.7	—24.3	80	calm	0	0			0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	30.10	764.4	30.17	766.2	16.3	— 8.7	94	calm	0	0			10 n			0	0		Capt. Kurdakow.
Nikolievsk-on-the-Amoor.	29.91	759.7	30.00	761.9	— 4.0	—20.0	79	w.	2	1		0	1 s						Iwanow.
Pekin, China	30.24	768.0	30.38	771.6	25.9	— 3.4	50	calm	0	0		0	0			0	0		**Physical Observatory.**
Petro-Alexandrovsk	30.15	765.7	30.52	775.3	28.8	— 1.8	72	ne.	2	1			10 k						
Petrozavodsk	29.30	744.2	29.51	749.5	14.0	—10.0	90	nne.	22	10			10			0.591	15.0		Dr. Bergmann.
Pinsk	29.38	746.2	29.90	759.5	23.0	— 5.0	100	s.	4	2		7 cs	0			0	0	light clouds	
Poti	30.11	764.7	30.14	765.5	52.5	11.4	73	e	4	2		0	0			0	0		
St. Petersburg	29.60	751.8	29.62	752.4	15.8	— 9.0	81	nw.	13	6			10 n			0.055	1.4		Central Physical Obs'y.
Samarkand	27.82	706.5	30.43	772.8	31.5	— 0.3	76	se.	7.8	3.5		7 ck	0						
Semipalatinsk	29.65	753.1	30.39	771.8	3.0	—16.1	85	sw.	16	7			6			0	0		Major Lasarew
Sevastopol	29.92	760.0	30.15	765.7	29.5	— 1.4	96	ne.	16	7			10 n.			0	0		
Staroi Bykhov	29.31	744.4	29.90	759.4	20.5	— 6.4	90	se.	11	5			10			0	0		
Tashkend, Laboratory	28.71	729.1	30.56	776.1	13.3	—10.4	98	calm	0	0		0	0						Terch, A. M
Tiflis	28.82	732.1	30.32	770.0	34.9	1.6	71	calm	0	0		0	2 s			0	0	light clouds	Physical Observatory.
Vernoe	27.81	706.4	30.52	775.2	19.6	— 6.9	87	sw.	20	9			10 n						
Viatka	29.19	741.3	29.87	758.7	7.5	—13.6	90	sse.	22	10			10			0	0		
Vladivostock	30.19	766.9	30.26	768.6	18.5	— 7.5	58	nne.	18	8		0	0			0	0		
Warsaw	29.40	746.7	29.84	757.9	32.4	0.2	94	sw.	20	9			10 n			0.110	2.8	h'vy clouds	Astronomical Obs'y.
Yeniseisk	29.35	745.4	29.65	753.2	9.7	—12.4	79	w.	11	5			10			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.15	740.4	29.71	754.6	24.1	— 4.4	84	ssw.	15	6.7			10 ks		s.	0.03	0.8	cloudy	**Prof. S. Fadeleff.**
Spanish.																			
Barcelona, Met. Obs'y	30.07	763.8	30.18	766.6	57.6	14.2	84	ne.								0	0	foggy	**B. J. Elin.**
Bilbao, Met. Obs'y	30.13	765.3	30.19	766.8	63.3	17.4	63	se.	4.7	2.1			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.29	693.2	30.31	769.8	51.3	10.7	80	sw.	5.6	2.5		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.08	713.1	30.37	771.3	49.1	9.5	87	ne.	4.9	2.2			10			0.016	0.4	covered	The Staff.
Murcia, Met. Obs'y	30.15	765.9	30.26	768.5	65.7	18.7	97	wsw.	0.7	0.3		2	7	se.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.15	740.4	30.05	763.2	56.8	13.8	77	se.	6.3	2.8			10			0.138	3.5	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.17	766.4	30.25	768.2	63.9	17.7	79	nne.	7.6	3.4			10k;n		nne.	0	0	cloudy.	Benito Vines, S. J.
Manilla, Philippine Islands	29.98	761.4	30.04	762.9	75.0	23.9	94	ese.	4.4	2.0		1 ck	1 ks			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.13	765.4	30.23	767.9	62.4	16.9	70	ese.	15.0	6.7		5	2	e.	e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.97	761.1	30.06	763.4	76.1	24.6	90	e.	5.8	2.6		2 cs	3 k	n.	n.	0.028	0.7		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.98	761.5	30.02	762.5	—10.1	—23.4	83	calm			0		0			0	0		
Umea	30.00	762.0	30.05	763.3	3.6	—15.8	90	nw.			2		0			0	0		
Hernosand	29.99	761.8	30.04	763.1	11.8	—11.2	93	calm			0		0			0.031	0.8		
Stockholm	29.91	759.7	30.09	764.2	18.3	— 7.6	72	nnw.			4		0			0	0		
Wisby	29.93	760.2	29.99	761.7	28.8	— 1.8	92	ne.			6		7			0.094	2.4		
Sub-series.																			
Upsala	30.00	761.9	30.08	764.1	12.4	—10.9	90	nw.	7.4	3.3			0			0	0		H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.05	763.3	40.8	4.9	93	n.	3	1.5			10		ne.	0.488	12.4	raining	The Observatory.
Valona			30.15	765.7	50.7	10.4		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.99	761.8	61.7	16.5	59	ne.			1		10 n		sw.	0	0		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	29.99	761.7	30.08	764.0	14	—10.0	46	sw.	6	2.7		0	0			inap.	inap.	clear	J. O. Barnes.
Alpena, Michigan	29.24	742.7	29.95	760.7	— 8	—22.2	58	sw.	13	5.8			10 s			0.02	0.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	30.22	767.6	21.0	— 6.1	76	ne.	1	0.4		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.70	703.6	30.74	780.8	—26.3	—32.4	100	nw.	4	1.8		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.14	740.1	30.37	771.4	25.0	— 3.9	68	nw.	6	2.7		0	sk.			0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.17	766.3	30.18	766.6	23.0	— 5.0	73	nw.	5	2.2			10 s		w.	0	0	cloudy	B. A. Blundon.
Augusta, Georgia	30.22	767.6	30.42	772.7	30	— 1.1	67	calm	0	0		0	0			0	0	clear	W. J. Evans.
Baltimore, Maryland	30.18	766.6	30.22	767.6	26.3	— 3.2	61	nw.	4	1.8		0	5 s		n.	0	0	fair	Geo. W. Folger.
Barnegat City, New Jersey	30.17	766.3	30.19	766.8	21.5	— 5.8	50	nw.	10	4.5		8 cs	0	nw.		0	0	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	29.03	737.3	30.77	781.5	—21.5	—29.7	100	nw.	12	5.4		0	2 s		nw.	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.67	702.8	30.65	778.5	—22.0	—30.0	100	calm	0	0			10 n			0.17	4.3	heavy snow	Thomas Morgan.
Bismarck, Dakota	28.76	730.5	30.76	781.3	—39	—39.4	100	nw.	16	7.2		0	0			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.09	764.3	30.12	765.0	20.0	— 6.7	74	w.	32	14.3		0	1 ks		w.	0	0	clear	J. T. Elker.
Boise City, Idaho	27.24	691.9	30.17	766.3	20	— 6.7	91	w.	2	0.9			10 n			0.13	3.3	light snow	James Kenealy.
Boston, Massachusetts	29.86	758.4	30.03	762.7	12.0	—11.1	70	w.	12	5.4		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	30.05	763.3	30.11	764.8	48.3	9.1	100	s.	4	1.8		0	fg.			0	0	clear	John McGlone.
Buffalo, New York	29.27	743.4	30.06	763.5	2.2	—16.6	80	w.	29	13.0		0	2 s		w.	0.15	3.8	clear	Wm. Finn.
Buford, Fort, Dakota	28.62	726.9	30.85	783.6	—40.8	—40.4	100	w.	8	3.6		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.94	760.5	30.36	771.1	15.5	— 9.2	74	ne.	14	6.3		0	8 s			0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.58	751.3	29.78	756.4	49.0	9.4	100	s.	31	13.9			10 n			2.10	53.3	light rain	**J. H. Young.**
Cape Henry, Virginia	30.24	768.1	30.26	768.6	30.0	— 1.1	67	sw.	8	3.6		0	4 s			0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.17	766.3	30.20	767.1	26.5	— 3.1	82	w.	20	8.9		8 cs	0			0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.30	744.2	30.00	762.0	54	12.2	74	se.	34	15.2			10 n			0.03	0.8	light rain	**A. P. Leavitt.**
Cedar Keys, Florida	30.41	772.4	30.43	772.9	36.0	2.2	65	ne.	8	3.6		5 cs	0	w.		0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.31	769.9	30.37	771.4	33.0	0.6	60	w.	5	2.2		0	3 s		w.	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.42	747.3	30.31	769.9	26.0	— 3.3	70	sw.	1	0.4		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.51	749.5	30.37	771.4	24.5	— 4.2	63	sw.	1	0.4		0	sk.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.93	607.8	30.20	767.1	— 2.4	—19.1	82	e.	1	0.4			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.57	751.1	30.32	770.1	— 8.0	—22.2	58	w.	10	4.5		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.19	766.8	30.21	767.3	31	— 0.6	78	nw.	7	3.1		5 cs	0			0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.67	753.6	30.36	771.1	11.7	—11.3	82	nw.	5	2.2			10 n		nw.	0.02	0.5	light snow	L. Dunne.
Cleveland, Ohio	29.44	747.8	30.22	767.6	— 1.0	—18.3	68	sw.	11	4.9			10 s		sw.	0	0	cloudy	W. Line.
Columbus, Ohio	29.40	746.7	30.30	769.6	4.9	—15.1	87	sw.	10	4.5			10 s			0	0	cloudy	F. T. Williams.
Concho, Fort, Texas	28.16	715.3	30.18	766.6	37.0	2.8	64	sw.	6	2.7			10 s		sw.	0	0	cloudy	C. E. King.
Custer, Fort, Montana	27.27	692.6	30.65	778.5	—14	—25.6	81	w.	4	1.8			10 s			0.44	11.2	cloudy	W. J. Daily.
Davenport, Iowa	29.75	755.6	30.46	773.7	— 8	—22.2	58	nw.	11	4.9			10 s			0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.32	643.1	30.30	769.6	38.4	3.6	81	calm	0	0			6 s		sw.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.15	715.0	29.96	761.0	45.0	7.2	82	sw	12	5.4			10 n		sw.	1.52	38.6	light rain	H. S. Blandford.
Deadwood, Dakota	25.55	649.0	30.50	774.7	—14.0	—25.6	100	nw.	1	0.4			10 s			0.07	1.8	cloudy	G. Kingsbury.
Delaware Breakwater, Del.	30.20	767.1	30.22	767.6	26.8	— 2.9	75	nw.	9	4.0		7 cs	0	w.		0	0	fair	G. A. Martin.
Denver, Colorado	24.73	628.1	30.25	768.3	— 1.7	—18.7	67	ne.	10	4.5			10 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.55	750.6	30.52	775.2	—11	—23.9	50	n.	6	2.7			10 s			0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.43	747.5	30.19	766.8	1.0	—17.2	72	w.	15	6.7		0	0			0.07	1.8	clear	N. B. Conger.
Dodge City, Kansas	27.70	703.6	30.45	773.4	— 3	—19.4	83	n.	16	7.2		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.66	753.4	30.44	773.2	—15.2	—26.2	33	nw.	10	4.5		0	0			0	0	clear	J. Harvey Smith
Duluth, Minnesota	29.57	751.1	30.38	771.6	—24	—31.1	100	nw.	3	1.3			10 s		nw.	0	0	cloudy	E. R. Brace.
Eastport, Maine	29.69	754.1	29.76	755.9	13.5	—10.3	62	sw.	19	8.5		0	1 s		sw.	0	0	clear	D. C. Murpay.
Elliott, Fort, Texas	27.40	695.9	30.32	770.1	2.3	—16.5	87	ne.	21	9.4		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.36	669.5	30.24	768.1	29.7	— 1.3	70	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.36	745.7	30.13	765.3	1.5	—16.9	85	sw.	16	7.2			10 n			0.46	11.7	light snow	O. A. Shaw.
Escanaba, Michigan	29.40	746.7	30.12	765.0	—16.0	—26.7	78	sw.	13	5.8		8 cs	0	nw.		0	0	fair	L. M. Pindell.
Fort Smith, Arkansas	29.74	755.4	30.24	768.1	20.5	— 6.4	84	w.	6	2.7		0	0			0	0	clear	J. B. Campbell
Galveston, Texas	30.11	764.8	30.15	765.8	55	12.8	86	w.	4	1.8			10 s			0	0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.44	747.8	30.15	765.8	1.0	—17.2	81	w.	32	14.3			10 s		w.	0.04	1.0	cloudy	Joseph E. Mueller.
Grant, Fort, Arizona	25.32	643.1	30.22	767.6	31.8	— 0.1	56	ne.	6	2.7		4 c;ck	0	w.		0	0	fair	Chas. A. Read.

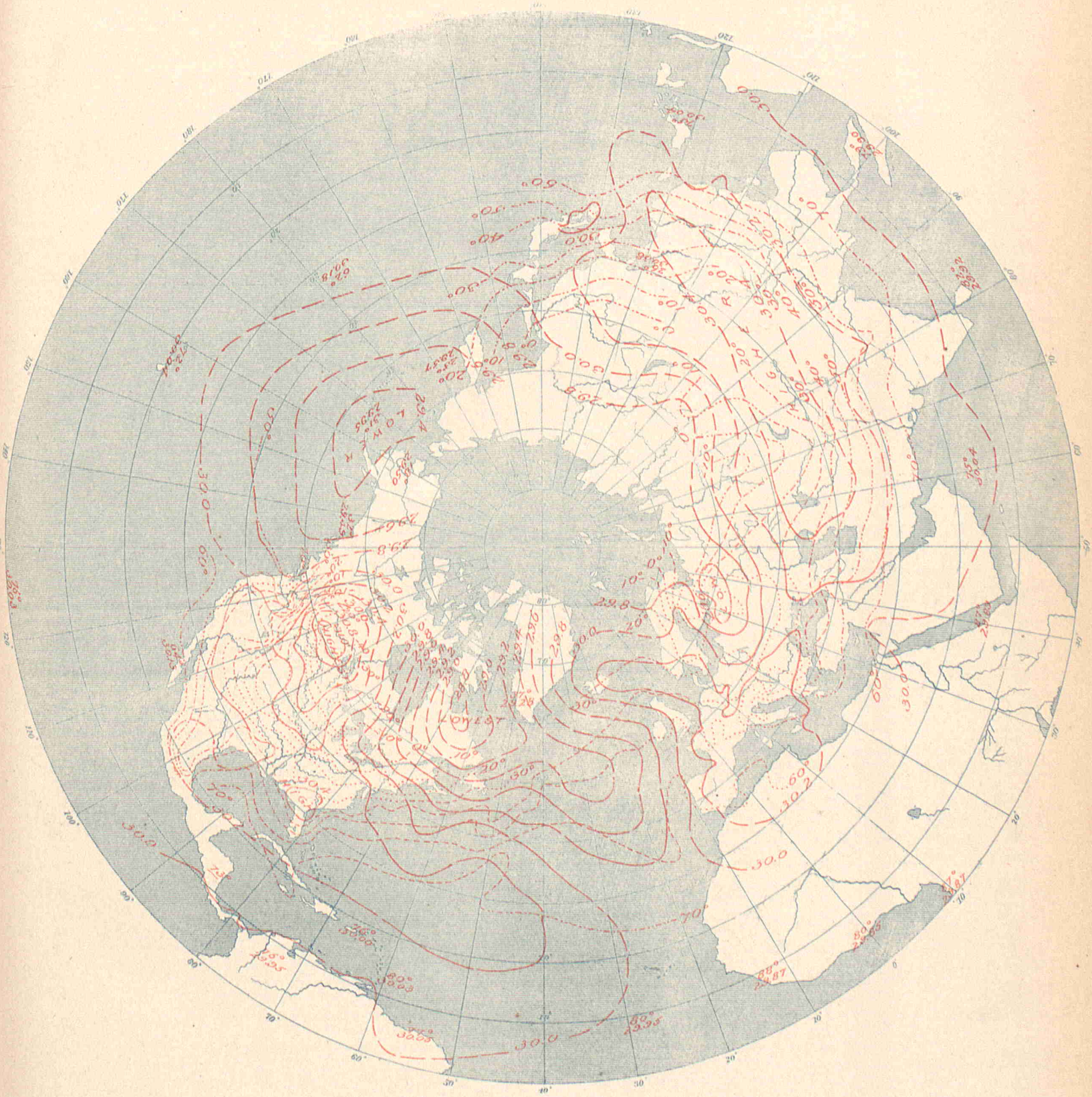
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.29	769.4	30.30	769.6	37.0	2.8	51	nw.	16	7.2	.....	4 c	0	sw.	.....	0	0	fair	R. M. Crawford.
Helena, Montana	26.08	662.4	30.46	773.7	.....	.....	.....	nw.	6	2.7	.....	.....	10 n	.....	.....	1.19	30.2	light snow	S. W. Morrison.
Huron, Dakota	29.19	741.4	30.73	780.5	—26.0	—32.2	100	nw.	15	6.7	.....	0	1 s	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.47	748.5	30.31	769.9	— 1.3	—16.5	74	nw.	6	2.7	.....	.....	10 n	.....	nw.	inap.	inap.	light snow	C. F. R. Wappenhaus.
Indianola, Texas	30.12	765.0	30.14	765.5	50.1	10.1	96	e.	6	2.7	.....	0	2 s	.....	.....	0	0	clear	I. A. Reed.
Jacksonville, Florida	30.39	771.9	30.44	773.2	32.5	0.3	78	nw.	1	0.4	.....	5 cs	fg.	nw.	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.76	755.9	30.46	773.7	— 7.5	—21.9	76	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.03	0.8	cloudy	F. Z. Gosewisch.
Key West, Florida	30.24	768.1	30.26	768.6	56.5	13.6	77	ne.	20	8.9	.....	7 ck	0	w.	.....	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.30	769.6	30.32	770.1	34.0	1.1	75	nw	15	6.7	.....	0	0	.....	.....	0	0	clear	Wesley Blake.
Knoxville, Tennessee	29.27	743.4	30.35	770.9	20.5	— 6.4	84	w.	3	1.3	.....	0	sk.	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.56	750.8	30.40	772.1	— 2.5	—19.2	100	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	S. C. Emery
Leavenworth, Kansas	29.59	751.6	30.55	776.0	— 3	—19.4	89	n.	10	4.5	.....	.....	10 n	.....	.....	0.03	0.8	light snow	T. S. Outram.
Lewiston, Idaho	29.14	740.1	30.02	762.5	35.2	1.8	83	calm	0	0	.....	.....	10 n	.....	.....	1.25	31.7	light rain	C. E. Butler.
Little Rock, Arkansas	29.89	759.2	30.22	767.6	30.0	— 1.1	56	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.76	755.9	30.16	766.1	47.2	8.4	63	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. S. Collins
Louisville, Kentucky	29.73	755.1	30.32	770.1	15.0	— 9.4	83	n.	16	7.2	.....	.....	10 n	.....	.....	0.01	0.3	light snow	L. M. Dey.
Lynchburg, Virginia	29.51	749.5	30.23	767.8	28.0	— 2.2	64	sw.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.23	742.4	29.93	760.2	— 2.0	—18.9	73	w.	24	10.7	.....	.....	10 s	.....	w.	0.23	5.8	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.32	770.1	30.33	770.4	32.0	0.0	54	nw.	8	3.6	.....	0	8 k	.....	sw.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.84	656.3	30.62	777.7	—19.0	—28.3	43	ne.	2	0.9	.....	.....	10 n	.....	ne.	0.16	4.1	heavy snow	F. Burke.
Marquette, Michigan	29.27	743.4	30.05	763.3	—11.0	—23.9	50	w.	16	7.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. Gilligan.
Memphis, Tennessee	29.89	759.2	30.25	768.3	30	— 1.1	86	calm	0	0	.....	.....	10 s	.....	se.	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.46	748.3	30.26	768.6	—20.0	—28.9	100	nw.	21	9.4	.....	0	0	.....	.....	0	0	clear	S. W. Rhode.
Mobile, Alabama	30.31	769.9	30.35	770.9	34	1.1	75	ne.	3	1.3	.....	6c;cs	2 s	ne.	.....	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.14	765.5	30.38	771.6	30	— 1.1	67	se.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.53	750.0	30.64	778.2	—43	—41.7	100	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	22.99	583.9	29.62	752.3	—14.5	—25.8	100	nw.	60	26.8	.....	.....	fg.	.....	nw.	0.04	1.0	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.67	753.6	30.28	769.1	22.1	— 5.5	85	se.	4	1.8	.....	5 ck	0	sw.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.01	762.0	30.12	765.0	11.8	—11.2	45	w.	10	4.5	.....	0	hz.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.12	765.0	30.16	766.1	15.0	— 9.4	57	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.23	767.8	30.29	769.4	44.0	6.7	72	se.	8	3.6	.....	5 c	0	nw.	.....	0	0	fair	M. Herman.
New York, New York	30.00	762.0	30.19	766.8	15.0	— 9.4	67	w.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	H. J. Peurod.
Norfolk, Virginia	30.22	767.6	30.25	768.3	33.0	0.6	60	w.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.38	695.4	30.50	774.7	— 1.4	—18.6	75	n.	8	3.6	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	Mc Lean.
Olympia, Washington Ter	29.75	755.6	29.79	756.7	50.0	10.0	93	s.	10	4.5	.....	.....	10 n	.....	.....	1.71	43.4	light rain	J. Dascomb
Omaha, Nebraska	29.34	745.2	30.01	777.5	—11.4	—24.1	69	n.	14	6.3	.....	0	0	.....	.....	inap.	inap.	clear	A. Pollak
Oswego, New York	29.63	752.6	29.98	761.5	14.0	—10.0	11	sw.	21	9.4	.....	0	8 k	.....	w.	0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.60	751.8	30.18	766.6	39.0	3.9	82	e	2	0.9	.....	0	3 s	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.36	771.1	30.39	771.9	35.2	1.8	63	e.	6	2.7	.....	5 cs	0	.....	.....	0	0	fair	M. McGauran.
Philadelphia, Pa	30.09	764.3	30.20	767.1	23	— 5.0	46	nw.	4	1.8	.....	3 cs	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.57	446.3	30.27	768.8	— 8.0	—22.2	74	nw.	58	26.0	.....	0	3 ks	.....	w.	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.37	746.0	30.22	767.6	11.0	—11.7	70	w.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	—44.7	—42.6	100	w.	.....	.....	1	0	0	.....	.....	0	0	clear	G. A. Carden.
Port Huron, Michigan	29.36	745.7	30.09	764.3	— 9.0	—22.8	81	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	29.88	758.9	29.93	760.2	11.5	—11.4	89	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.83	757.7	29.90	759.4	51.0	10.6	93	s.	14	6.3	.....	.....	10 n	.....	.....	0.90	22.9	light rain	M. L. Hearne.
Prescott, Arizona	24.89	632.2	30.27	768.8	25.0	— 3.9	82	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass	30.02	762.5	30.05	763.3	15.7	— 9.1	50	w.	19	8.5	.....	hz.	1 ks	.....	w.	0	0	clear	C. N. Kitchel.
Red Bluff, California	29.88	758.9	30.25	768.3	47	8.3	77	n.	2	0.9	.....	0	8 ks	.....	s.	0	0	cloudy	J. R. Williams.
Rio Grande City, Texas	29.94	760.5	30.18	766.6	37.0	2.8	99	ne.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y	29.32	744.7	30.04	763.0	2	—16.7	73	w.	20	8.9	.....	0	5 s	.....	w.	0.12	3.0	fair	E. W. McGann.
Roseburg, Oregon	29.51	749.5	30.08	764.0	55	12.8	71	se.	5	2.2	.....	0	9 s	.....	sw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	30.15	765.8	30.23	767.8	47.0	8.3	82	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.79	756.7	30.15	773.4	0.4	—17.6	84	w.	12	5.4	.....	.....	10 n	.....	n.	0.01	0.3	light snow	J. H. Weber.
St. Michael, Fort, Alaska	29.46	748.3	29.50	749.3	18	— 7.8	83	ne.	3	1.3	.....	2 cs	0	.....	.....	0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.51	749.5	30.45	773.4	—22.0	—30.0	.....	w.	14	6.3	.....	0	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.07	753.6	30.65	778.5	—36	—37.8	100	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.68	652.3	30.25	768.3	37	2.8	56	e.	3	1.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. Craig.
San Diego, California	30.05	763.3	30.12	765.0	49.3	9.6	57	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.51	749.5	30.23	767.8	1	—17.2	72	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.16	766.1	30.19	766.8	17.0	— 8.3	67	w	26	11.6	.....	0	0	.....	.....	0	0	clear	V. P. Chappel.
Sanford, Florida	30.34	770.6	30.40	772.1	34.0	1.1	73	nw.	12	5.4	.....	10 cs	0	w.	.....	0	0	cloudy	J. B. Marbury
San Francisco, California	30.12	765.0	30.18	766.6	49.0	9.4	87	nw.	9	4.0	.....	0	0	.....	.....	0.13	3.3	clear	N. Gorom.
Savannah, Georgia	30.31	769.9	30.41	772.4	32	0.0	60	w.	4	1.8	.....	2 cs	0	w.	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.74	679.2	30.60	777.2	—15	—26.1	100	e.	5	2.2	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.91	759.7	30.16	766.1	34.0	1.1	72	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.42	747.3	29.49	749.0	32	0.0	70	ne.	16	7.2	.....	0	7 ks	.....	ne.	0	0	fair	F. W. Fickett.
Smithville, North Carolina	30.31	769.9	30.35	770.9	30.6	— 0.8	82	nw.	5	2.2	.....	4 cs	0	w.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.08	713.2	30.22	767.6	19	— 7.2	100	n.	9	4.0	.....	.....	10 n	.....	.....	1.09*	27.7*	heavy snow	D. Moore.
Springfield, Illinois	29.72	754.9	30.45	773.4	— 4.2	—20.1	84	n.	5	2.2	.....	.....	10 n	.....	.....	0.05	1.3	light snow	T. B. Jennings.
Stockton, Fort, Texas	27.04	686.8	30.18	766.6	35.0	1.7	56	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	29.59	751.6	.....	.....	44.4	6.9	98	se.	20	8.9	.....	.....	10 n	.....	se.	0.87	22.1	light rain	R. Connor.
Thomas, Camp, Arizona	27.49	698.2	30.32	770.1	23.3	— 4.8	84	e.	.....	.....	1	0	0	.....	.....	0	0	clear	R. O. Lord.
Toledo, Ohio	29.47	748.5	30.21	767.3	0.3	—17.6	82	sw.	18	8.0	.....	0	2 s	.....	.....	0	0	clear	A. Buell.
Unalaska, Alaska	29.23	742.4	29.25	742.9	31	— 0.6	88	calm	0	0	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Samuel Applegate.
Vicksburg, Mississippi	30.01	762.2	30.28	769.1	36.3	2.4	80	se.	2	0.9	.....	0	3 s	.....	w.	0	0	clear	C. Dill.
Washington, D. C.	30.11	764.8	30.23	767.8	23.5	— 4.7	73	n.	1	0.4	.....	5 c	0	w.	.....	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	26.16	664.5	30.29	769.4	— 0.5	—18.1	100	ne.	13	5.8	.....	.....	10 s	.....	ne.	0.03	0.8	cloudy	F. H. Brandenburg.
Wilmington, N. Carolina	30.32	770.1	30.38	771.6	33.0	0.6	68	w.	5	2.2	.....	5c; k	0	.....	.....	0	0	fair	L. H. Albrecht.
Yankton, Dakota	29.25	742.9	30.07	779.0	—16.2	—26.8	100	n.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	30.02	762.5	30.18	766.6	43.3	6.3	43	n.	3	1.3	.....	0	3 s	.....	n.	0	0	clear	W. S. Delano.
Subseries.																			
Behring Island, Kamchatka	29.55	750.6	29.57	751.1	25.0	— 3.9	73	ne	12	5.4	.....	0	8k;n	.....	.....	0.01	0.3	cloudy	George Cherulck.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	70	21.1	.....	nw.	.....	.....	2	2 cs	5 k	.....	ne.	0.77	19.6	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.04	559.8	.....	.....	52.7	11.5	86	nw.	2	1	.....	.....	10 pk	.....	s.	0.508	12.9	.....	Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	28.56	725.4	28.71	729.2	7	—13.9	100	ne.	11	4.9	.....	.....	10 n	.....	ne.	inap.	inap.	light snow	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.13	765.3	68.0	20.0	83	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77	25.0	91	e.	.....	.....	2	5 k	8 ps	e.	.....	0.700	17.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.95	760.7	76	24.4	89	calm	.....	.....	0	.....	10 ks	.....	s.	0.69	17.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73.4	23.0	90	ne.	.....	.....	1	.....	3 ks	.....	ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.09	764.3	30.16	766.1	—27.0	—32.8	.....	nw.	22	9.8	.....	5 k	5 s	n.	nw.	0.09	2.3	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.98	761.4	29.98	761.6	79.5	26.4	84	s.	1.6	0.7	.....	0	9 k	.....	n.	.....	.....	hazy	P. Faslani.
Naós, Bay of Panama	29.96	760.9	30.02	762.6	73.2	22.9	89	n.	.....	.....	1	0	1 k	.....	n.	.....	.....	clear	Antonio Fabre.

* Total for two days.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 46° 24′, W. 35° 55′						wnw.			4		6		w.	2 h'r	2 h'r	long	cross	overcast.
S. S. Alvo, Port Limon, Costa Rica, C. A*	30.04	763 0	72	22.2		var.			0–1		3		calm	0	0	light	e.	fine
S. S. Alleghany, Boston, Mass †	30.09	764.3	12	—11.1		wnw.			7		0			0	0			clear.
Bg. Abbie Clifford, N. 41° 40′ W. 68° 11′*†	29.96	761.0	24	— 4.4		wsw.			8		3		w.	1 h'r	1 h'r	r'gh	w.	
Schr. Anna A. Holton, N. 31° 23′, W. 78° 12′ *†...	30.26	768.6	56	13.3		nw.			1		8		nnw.	0	0	mod.	nw.	fair.
S. S. Alps, N. 18° 33′, W. 73° 13′			81	27.2		e.			2		0			0	0	sm'h		clear.
S. S. British Prince, Liverpool, Eng †	30.03	762.7				sse.			5		6		se.	0	0			hazy.
S. S. Cienfuegos, St. Jago, Cuba, W. I	30.12	765 0	74	23.3		nnw.			1		0			5 h'r	5 h'r			clear.
S. S. Caracas, La Guayra, Venezuela			78	25.6	86	calm			0		5		ene.	0	0	mod.	nne.	fair.
S. S. Canada, N. 46° 39′, W. 46° 52′	29.78	756.4	35.6	2		w.			4		10					r'gh	w.	overcast.
S. Cornelius, N. 33° 24′, W. 70° 48′*†	30.24	768.1	57.9	14.4		nw.			3		8		nnw.	0	0	mod	nw.	cloudy.
Bk. Diamant, N. 40° 42′, W. 44° 16′	29.98	761.6	60.8	16.0	80	n.			5		7		wnw.			5	n.	fair.
S. S. Dorian, Gibraltar, Mediterranean			51	10.6		e.			2		10		se.	0	0			cloudy.
S. S. Denmark, London, Eng†	30.20	767.1	52	11.1	93	sw.			5		9		sw.					cloudy.
Bk. Don Quixote, N. 52° 02′, E. 2° 29′ *	30.19	766.8	45	7.2		e.			2		fg.			16 h'r	16 h'r	sm'h		foggy.
S. S. Fulda, N. 50° 28′, W. 2° 25′	30.12	765.0	50.0	10.0	100	ssw.			4		9		s.	0	0	sm'h		hazy.
Bg. Gipsey Queen, Matanzas, Cuba, W. I *†	30.20	767.1									10			24 h'r	24 h'r			raining.
Bk. Ibis, N. 34° 31′, W. 75° 47 *	30.33	770.4				nw.			6		1		nw.	0	0	sm'h		clear.
S. S. Iowa, N. 47° 06′, W 42° 40′ †	29.76	755.9	41	5.0		w.			6		7		w.	5 h'r	5 h'r	rg'h	w.	squally.
Schr. Jas Slater, N. 23° 32′. W. 64° 30′*†	30.29	769.4	80	26.7		e.			3		5		e.	0	0	light	e.	misty.
Bg. Lilian, N. 34° 32′, W. 74° 00′ †	30.21	767.3	51	10.6		wnw.			3		8		wnw.	0	0	r'gh		cloudy.
S. S. Leipzig, N. 39° 02′, W. 14° 19′	29.88	758.9	63	17.2	100	sw.			6		10		sw.	3 h'r	3 h'r	r'gh	ssw.	overcast.
Bg. L. F. Munson, N. 31° 38′, W. 67° 53′*†	30.21	767.3	63	17.2		n			2		8			0	0	long	wnw.	cloudy.
S. S. Mentmore, N. 49° 15′. W. 37° 46′			50	10.0		nw.			9		3		nw.	10 h'r	10 h'r	mod	nw.	stormy.
Bk. Matilda C. Smith, N. 27° 16′, W. 57° 30′*†	30.25	765.3				calm			0		1			0	0	mod.	n.	clear.
Schr. Maggie Abbott, Fort Liberte, Hayti, W. I*†	30.08	764.0							2		2		se.	0	0			clear.
Bk. Matthias, N. 30° 20′, W. 43° 00′*†	30.21	767.3	68	20.0		wnw.			2–3		0			0	0	2	ne.	clear.
S. S. New York, N 32° 30′ W. 78° 00′ *†	30.30	769.6	50	10.0		w.			4		3		w.			sm'h		clear.
S. S. Neckar, N. 44° 14′, W. 47° 35′	29.84	757.9	43.1	6.2	75	wsw.			4–6		7		sw;nw.	rain	rain	mod	wsw.	fair.
S. S. Nova Scotian, N. 52° 22′, W. 20° 37′			53	11.7		ese.			4		10		se.			high	ssw.	cloudy.
S. S. Nederland, N. 50° 04′, W. 2° 54′			52	11.1	86	ssw.			4		8		wsw.	0	0	long	wsw.	overcast.
S. S. Olbers, N. 16° 57′, W. 55° 00′	30.16	766.1	76	24.4	86	ene.			5		5		ene.	0	0	mod.	ne.	fair
S. S. Olinde Rodrignes, N. 49° —′, W. 20° 46′ *†	29.49	749.0	53	11.7		ssw.			3		8		ssw.	3 h'r	3 h'r	long	wsw.	cloudy.
S. S. Pavonia, N. 40° 34′, W. 67° 51′	30.03	762.7	44	6.7	84	w.			6		8		wnw.	0	0	long	w.	cloudy.
S. S. Picqua, Valencia, Spain *†	30.25	768.3	60	15.6	94	calm			0		0			0	0			clear.
S. S. Rhynland, N. 49° —′, W. 40° 10′	29.45	748.0	53	11.7	79	w.			6		10		w.	0	0	mod.	w.	overcast
S. S. Republic, N. 40° 28′, W. 71° 15′			30	— 1.1		w.			6		4		w.	0	0	h'vy	w.	fair.
S. S. Romano, N. 49° 57′, W. 5° 18′	30.09	764.3	54	12.2		ssw.			4		8		ssw.			h'vy	sw.	light haze
S. S. Rosse, N. 45° 53′, W. 46° 32′			43	6.1		w.			5		2		w.	6 h'r	6 h'r	long	nne.	clear.
Bk. Rosina, N. 24° 00′, W. 49° 04′	30.28	769.1	76	24.4		n.			1		0			0	0	h'vy	n.	clear.
S. S. Sardinian, N. 46° 10′, W. 54° 06′	29.59	751.6	33	0.6		sw.			6		8		sw.	0	0	r'gh	wsw.	fair.
S. S. Scythia, N. 45° 50′, W. 43° 54′	29 78	756 4	47	8.3	85	w.			4		8		w	4 h'r	4 h'r	mod	w.	cloudy
S. S. St. Albans, N. 28° 30′, W. 50° —′*	30.22	767.6	69	20.6		s.			2		10		n.	½h'r	½hr	long	n.	squally.
S. S. Thingvalla, Copenhagen, Denmark			33.8	1.		n.			1									
Bg. Teneriffe, N. 36° 45′, W. 74° 30′	30.23	767.8				wnw.			6		1		w.			2	var.	clear.
Schr. Viola Reppard, N. 37° 41′, W. 71° 22′ †	30.08	761.0	42	5.6		w.			4		5		w.	0	0	high	sw.	fair.
S. S. Westphalia, Hamburg, Germany	30.24	768.1	31	1.1	71	se.			1		6		s.	0	0			fair.
Bk. Ariadne, N. 24° 02′, W. 61° 08′	30.27	768.8	74	23.3		ese.			4		3		ese.	0	0	mod.	ese.	fair.
Schr. Annie R. Lewis, N 27° 50′, W. 66° 24′ †	30.29	769.4	73	22.8		ne.			1		1		n.	3 h'r	3 h'r	r'gh	wnw.	clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.25	768.3				e.			2		9		e.	7 h'r	7 h'r	r'gh	ne.	stormy.
U. S. S. Alliance, Port au Prince, Hayti, W. I	30.09	764.3	77	25.0	86	w.			1		8		calm	0	0	sm'h		cloudy.
S. S. Bothnia, N. 51° 22′, W. 12° 13′	29.78	756.4	58	14.4	100	sse.			4		10		sse.			mod	ssw.	gloomy.
S. S. Chalmette, New York, N. Y †.	30.18	766.6	12	—11.1		wnw.			6		10?		wnw.	0	0			clear?
Schr. Ellen Crusoe, Mayaguez, Porto Rico*†	30.15	765.8				e.					0			0	0			clear.
S. S. Germanic, N. 51° 49′, W. 18° 22′*†	29.48	748.8	51	10.6	93	se.			4		3			1 h'r	1 h'r	long	s.	fair.
Bg. John Welsh, jr., N. 26° 59′, W. 87° 57′						nne.			4				ne.			sm'h	n.	clear.
S. S. Lone Star, N. 34° 22′, W. 76° 22′*†	30.28	769.1	42	5.6		wnw.			3		2		w.	0	0	mod.	w.	hazy.
S. S. Lord Olive, N. 41° 17′, W. 65° 07′						w.			6		9		w.	1 h'r	1 h'r	str'g	w.	cloudy
S. S. Ontario, N. 50° 30′ W. 41° 00′	29.50	749.3	41	5.0		w.			6		9		wnw.	4 h'r	4 h'r	high	ne.	cloudy
S. S. Orinoco, N. 34° 20′, W. 66° 32′			62	16.7		wnw.			3		10		wnw.	1 h'r	1 h'r	cross		cloudy.
S. S. Rhaetia, N. 49° 38′, W. 28° 51′			50	10.0		s.			2		9		ssw.	2 h'r	2 h'r	mod.	se; s.	overcast.
Bk. Saga, N. 25° 51′, W. 25° 13′ *†	29.99	760.9	67	19.4		var.			6–8		7		var.	2½ hr	2½ hr	high	var.	fair.
S. Storm King, N. 28° 14′, W. 37° 01′*†.	30.15	765.8				nnw.			4		8		nnw.	2 h'r	2 h'r	long	n.	fair.
S. S. Salerno, N. 49° 25′, W. 16° 36′ †	29.60	751.8	54	12.2		se.			4		7		se.			mod.	se.	raining.
S. S. St. Laurent, N. 41° 03′. W. 67° 32′	30.04	762.9	33.8	1		w.			5		8		w.	0	0	high	w	cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.05	763.3	73	22.8	100	calm			0		8		calm			sm'h		cloudy.
U. S. S. Tennessee, Port au Prince, Hayti, W. I	30.12	765.0	75	23.9	76	w.	4	1.8			8		calm	0	0			cloudy.
U. S. S. Vandalia, N. 10° 49′. W. 61° 40′	29.99	761.7	78	25.6	82	ene.			3		10		e.					cloudy.
S. S. Venetian, N. 45° 02′, W. 48° 50′ *	29.74	755.4	36	2.2		sw.			3–4				wsw.	6 h'r	6 h'r	mod.	var.	
S. S. Weser, N. 42° 52′ W. 51° 29′	29.96	761.0	39.2	4		sw.			2		10		sw.	10h'r	10h'r	long	sw.	cloudy.
S. S. Westerland, Jersey City, N. J	30.19	766.8	15	— 9.4		w.			3		0			0	0			clear.
S. S. City of Berlin, N. 49° 04′, W. 36° 16′	29.40	746 7	51	10.6		wsw.			3		10							raining.
U. S. Navy Yard, Portsmouth, N. H*	30.01	762.2	11	—11.7	80	wnw.	15	6.7			0			0	0			clear.
U. S. S. Kearsarge, Villefranche, France	30.21	767.3	54	12.2	93	calm			0		10							cloudy.
U. S. S. Lancaster, Villefranche, France	30.22	767.6	55	12.8	100	calm			0		10			mod.	mod.	sm'h		overcast.
U. S. S. New Hampshire, Newport, R. I	30.08	764.0	19	— 7.2	84	wsw.			4		1		calm			mod.	wsw.	clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.20	767.1	48	8.9	78	calm			0		10					sm'h		cloudy.
U. S. S. Shenandoah, N. 35° 25′. W. 51° 08′			68	20.0	90	s.			3		10		ssw.			mod.	w.	cloudy.
U. S. S. Trenton, N. 36° 31′, W. 2° 47′	30.32	770.1	58	14.4	82	e.			2		8		e.			sm'h		overcast.
H. M. S. Alexandra, Malta, Mediterranean	30.25	768.3	55	12.8	56	nnw.			2		0							blue sky.
H. M. S. Alecto, N. 5° 05, W. 1° 13′	29.85	758.2	80	26.7		ssw.			1		0					2	s.	misty.
H. M. Dockyard, Bermuda, Altantic	30.12	765.0				w.			4		8	wnw.						d. clouds.
H. M. S. Himalaya, N. 41° 50′, W. 9° 40′	30.01	762.2	58	14.4		se.			5		9					4	sse.	d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.28	769.1	60	15.6	82	w.			1		9							d. clouds.
H. P. M. S. Douro, N. 0° 31′, E. 9° 18′	29.87	758.7	86.9	30.5	71	ssw.			3		3		sw.	1 h'r	1 h'r	1	sw.	d. clouds.
S. S. British Crown, N. 44° 51′, W. 52° 50′ †	29.75	755.6	45	7.2		wsw.			6		7		w.	3 h'r	3 h'r	high	nw.	squally.
S. S. Ohio, Liverpool, Eng *†	30.09	764.3	57	13.9	94	sw.			1		9		sw.	8 h'r	8 h'r			cloudy.
S. S. Pennsylvania, N. 50° 51′, W. 16° 22′			53	11.7	100	s.			4		9		se.	2 h'r	2 h'r	h'vy	sw.	overcast.
S. S. Devonia, N. 46° 11′, W. 47° 46′ †	29.73	755.1	33	0.6		sw.			3		3		wsw.	6 h'r	6 h'r	short	wsw.	fair.
S. S. Bohemia, N. 50° 29′, E. 00° 20′						s.			2–3		10			0	0			
S. S. Frisia, N. 49° 30′ W. 27° 30′	30.32	770.1	52	11.1		sw.			4		0			0	0	long	s. w	fair.
S. S. Archimedes, N. 27° 33′, W. 87° 33′	30.35	770.9				ene.			3–4		6		ene.	0	0	sm'h		light haze.
S. S. Hevelius, N. 44° 57′, W. 10° 15′ *†	30.00	762.0	61	16.1		ssw.			8		8		sw.	0	0	mod.	sw.	cloudy.
S. S. Archimede, N. 36° 39′, W. 48° 27′ †	30.19	766.8	72	22.2		sw.			4		4		sw.	0	0	r'gh	sw.	fair.
S. S. Erin, London, Eng			52	11.1		calm			0		7		nw.	0	0			cloudy.
S. S Helvetia, N. 44° 11′ W. 44° 59′	29.72	754.9	52	11.1	93	w.			5		5		w.	0	0	mod.	w.	fair.
S.S. Waesland, Antwerp, Belgium			50	10.0		ssw.			2		fg			0	0			dense fog.
S. S. W. A. Scholten, Rotterdam, Netherlands			47.5	8.6	90	sw.			5		7		w.	0	0			fair.
S. S. Saxon, N. 40° 30′, W. 73° 15′			20	— 6.7		w.			3		5		nw.					fair.
S. S. Celtic, N. 45° 11′ W. 38° 46′*†	29.70	754.4	56	13.3		sw.			4		8		sw.	shr's	shr's	mod.	n.	showery.
S. S. Antonio Lopez, Cadiz, Spain	30.23	767.8	62	16.7	72	ese.			3		5							fair.
Schr. Adda Doane, Savannah, Ga†	30.42	772.7				wsw.			2		2		w.	0	0			clear.
Schr. Clotilde, N. 24° 49′, W. 90° 39′†	30.25	768.3	70	21.1		e.			5		10		e.	0	0	sm'h	e.	cloudy.
Bk. Celestina, Cadiz, Spain*†	30.25	768.3				ese.			4		1			0	0			fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bkt. C. S. Bushnell, N 36° 08′, W. 6° 23′						e.			6		1		wsw.	0	0	r'gh	nw.	
S. E. J. Spicer, Liverpool, Eng.	30.06	763.5	51	10.6	100	se.			3		10		sw.	12 h'r	12 h'r			hazy.
S. E. B. Sutton, N. 21° 50′, W. 41° 00′ *†	30.22	767.6	74	23.3	86	ne.			3		3		ne	sh'rs	sh'rs	long	nnw.	d. clouds.
S. Hedwig, N. 37° 07′, W. 10° 09′	30.15	765.7	63.3	17.4	94	sse.			4		2		var.	0	0	4	wnw.	hazy.
Bk. Heinrich & Tonio, N. 39° 45′, W. 57° 20′*†	30.10	764.5	56	13.3	75	w.			3		8		w.	10 h'r	10 h'r	mod	w.	cloudy.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.37	771.4				ese.			2		10		e.	0	0			threatening.
S. Henry, N. 39° 29′, W. 70° 04′*	30.06	763.5	35.8	2.1		nnw.			6	6 c						0	w.	stormy.
Bg. John Wesley, N. 25° 51′, W 79° 15′						nnw.			6		10		n.	2 h'r	2 h'r	r'gh	nw.	cloudy
Schr. John L. Thomas, Hobbles Cays, G. A†	30.02	762.5	75	23.9	90	nw.			2		6		n.	1 h'r	1 h'r			threatening.
Bg. L. & W. Armstrong, N. 28° 29′ W. 58° 55′†	30.22	767.6				s.			1		0			0	0	sm'h	s.	fine.
S. S. Laurel, Key West, Fla†	30.26	768.6	58	14.4		nne.			3-4		9		e.	0	0			cloudy.
Bkt. Levanter, N. 8° 05′, W. 29° 29′*	29.95	760.7	80	26.7		ene.			4		10		ene.	0	0	long	ne.	cloudy.
S. S. Madrid, N. 36° 10′, E. 19° 50′†	30.15	765.8	54	12.2	74	n.			3		5		n.	sh'rs	sh'rs	mod	n.	light rain.
S. S. P. de Satrastegui, N. 19° 00′, W. 67° 39′	30.18	766.6				calm			0		2			0	0	sm'h		clear.
Bg. Rising Sun, N. 38° 30′, W. 72° 44′†	30.10	764.5	40	4.4		nw.			5		9		nw.	0	0	short	nw.	
Bk. Rosalie, N 20° 37′, W. 41° 04						nne.			3		0			0	0	light	n.	clear.
S. Salisbury, N. 38° 00′, E. 3° 07′	30.22	767.6	68.9	20.5	76	wsw.			3		0			0	0	mod.	se.	clear.
Bk. Tuck Sing, N. 38° 18′, W. 73° 09′*†	30.07	763.8				nw.			4		0			0	0	mod	sw.	clear.
S. S. City of Alexandria, Havana, Cuba*†	30.19	766.8	67	19.4		nne.			5							h'vy	nne.	d. clouds.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Montevideo, Uruguay *	30.11	764.8	69	20.6	75	ne.			3		2		ne.					clear.
U. S. S. Pinta, Maranham, Brazil	29.94	760.5	81	27.2	83	ne.			2		10		ne.					cloudy.
H. M. S Amethyst, Montevideo, Uruguay	30.04	763.0	69	20.6	75	ne.			3		1	se.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.03	762.7	73	22.8		ese.			1-3		1							blue sky.
H. M. S. Comus, S. 9° 28′, W. 22° 00′	29.98	761.5	77.5	25.3	80	ese.			5		6					4	ese.	d. clouds.
H. M. S. Opal, S. 4° 39′, E. 11° 24′	29.89	759.2	81	27.2	87	ese.			2		4	ese.				2	ese.	d. clouds.
H. P. M. S. Tejo, S. 7° 51′, E. 13° 04′	30.08	764.0	83.3	28.5	92	sw.			1		7			1 h'r	1 h'r	2	w.	d. clouds.
S. S. Sirius, Bahia, Brazil	29.99	761.7				se.			4		2		se.	1 h'r	1 h'r			clear.
S. S. Strasburg, S. 17° 31′, W. 37° 11′	30.10	764.5	79.0	26.1	74	ene.			3		2		ene.	0	0	2	ene.	clear.
Bk. Chas. Stewart, S. 14° 20′, W. 27° 45′ *†	30.10	764.5	79	26.1		e.			6		2		e.	0	0	mod.	se.	clear.
Bg. Daphne, S. 1° 50′, W. 35° 42′*†	29.86	758.4	81	27.2	78	se.			3		2		se.	2 h'r	2 h'r	long	ese.	clear.
Bk. Horace Scudder, S. 10° 29′, W. 80° 28′*†	30.10	764.5	78	25.6		se			3		9		se.	0	0	light	se.	cloudy.
S. Parker M. Whitmore, S. 24° 49′, W. 21° 30′*†	30.05	763.3	78	25.6		n.			1		0			0	0	sm'h		clear.
S. David Stewart, Pernambuco, Brazil †	29.84	757.9	89	31.7		se.			5		3		se.	0	0			
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.30?	769.6?	40	4.4	69	calm			0		10		ssw.	light	light			threatening.
U. S. S. Adams, Sitka, Alaska	29.47	748.5	30	— 1.1	57	ene.			4		10							cloudy
U. S. S. Alert, Honolulu, Sandwich Islands	30.04	763.0	72	22.2	76	ne.			3		2		nne.			sm'h		fair.
U. S. S. Essex, Canton, China	30.20	767.1	66	18.9	74	n.			2		5							fair.
U. S. S. Juniata, Shanghai, China	30.41	772.4	40	4.4	91	nw.			3		10		calm	light	light			overcast.
U. S. S. Monocacy, Shanghai, China	30.38	771.6	71	21.7	90	nw.			3		10		nw.					cloudy
U. S. S. Ranger, Panama, Panama	30.01	762.2	75	23.9	86	nw.			2		2			hv'y	h'vy			fair.
U. S. S. Richmond, Shanghai, China			41.0	5.0	82	nw.			3		10		nw.	1.3	33.			cloudy.
H. M. S. Audacious, Hong Kong, China			70	21.1	80	calm			0		4	ne.						d clouds.
H. M. S. Cleopatra, off Amoy, China	30.12	765.0	63	17.2		e.			3		10	calm				sm'h		overcast.
H. M. S. Champion, N. 29° 20′, E. 122° 55′	30.41	772.4	48	8.9	85	nw.			5-6		10					5	nw.	overcast.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.90	759.4	78.5	25.8	86	calm			0		8							d clouds.
H. P. M. S. Tamega, Macao, China	30.20	767.1	69.8	21.0	82	n.			4		0			0	0			blue sky.
S. S. Oceanic, N 32° 39′, W. 176° 49′	30.18	766.6	62	16.7	72	nw.			3-4		4		w.	12 h'r	12 h'r	4	wnw.	fair.
S. S Oregon, N. 45° 19′, W. 124° 10′†	29.93	760.2	50.5	10.3	100	s.			4		10		s.			mod.	ssw.	misty.
S. S. Willamette, N. 46° 30′, W. 124° 30′†	29.80	756.9	51	10.6	100	s.			5		10		s.	0.95	24.1	r'gh	ssw.	rain & fog.
S. S. Alameda, N. 25° 53′, W. 151° 16′	30.07	763.8	65	18.3	94	n.			3		8		n.	0	0	mod.	nw.	misty.
S. S. Ancon, San Francisco, Calif	30.14	765.5	50	10.0	86	nnw.			1		0			0	0			clear.
S. S. City of Chester, Hookton, Calif	30.08	764.0	58	14.4	88	se.			4		10							
S. S. Orizaba, N. 34° 35′, W. 120° 40′†	30.13	765.3	59	15.0	94	var.			2		0			0	0	long	sw.	clear.
S. S. Queen of the Pacific, Seattle, Wash. Ter†	29.79	756.7	53	11.7	86	sse.			6		10			18 h'r	18 h'r			cloudy.
S. S. State of California, San Francisco, Cal. †	30.19	766.8	47	8.3	85	nw.			2		0							clear.
S. S. Australia, N. 0° 51′, W. 167° 10′			79	26.1		ese.			4		6?		se.	3 h'r	3 h'r	mod.	ese.	clear?
S. S. City of Pekin, N. 31° 06′, E 132° 15′			65	18.3	84	s.			6		10		sw.			mod.	s.	squally
S. S. City of Tokio, N. 39° 45′, W. 146° 39′			50	10.0	93	sw.			6		5		wnw.	12 h'r	12 h'r	h'vy	wnw	squally.
S. S. Colima, N. 11° 46′, W. 87° 53′†	30.03	762.7	78	25.6	82	ne.			4		4		nne.	0	0	mod.	nne.	clear.
S. S. Granada, N. 26° 00′, W. 113° 45′†	30.13	765.3	64	17.8	78	ne.			1		0			0	0	light	n.	clear.
S. S. Grecian, N. 1° 06′, W. 125° 27′†	30.03	762.7	76	24.4	77	ese			4		5		ese.	0	0	sm'h		fair.
S. S. Radnorshire, N. 22° 30′, E. 116° 11′						ene.			3		1		ene.	0	0	light	ene.	clear.
District No. 4—South Pacific.																		
U. S. S. Hartford, Valparaiso, Chili *	30.10	764.5	61	16.1	94	calm			0		0					sm'h		clear.
U. S. S. Iroquois, S. 39° 36′, W. 83° 17′	29.93	760.2	62	16.7	88	nnw.			6		10		nw.			long	nw.	cloudy
U. S. S. Lackawanna, Valparaiso, Chili	30.07	763.8	63	17.2	83	calm			0		0							clear.
U. S. S. Onward, Callao, Peru*†	30.14	765.5	67	19.4	89	sse.			2		10		sse.			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru.*†	30.20	767.1	66	18.9	94	se.			2		8		calm			sm'h		cloudy.
H. M. S. Diamond, S. 33° 52′ E. 151° 14′	29.95	760.7	71	21.7	75	var.			1		2	s.						d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.90	759.4	58	14.4	76	ssw.			3		8					sm'h		d clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	30.04	763.0	65	18.3		nne.			1							1	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.57	751.1	60	15.6	88	nw.			1-3		0							d. clouds.
H. M. S. Sylvia, Sandy Point, Patagonia	29.29	744.0	51.7	10.9	68	wnw.			3		9							d. clouds.
S. S. City of Sydney, S. 34° 02′, E 158° 08′ *†	29.91	759.7	64	17.8	78	nnw.			2		0					light	ne.	clear.
Bk. Alpheus Marshall, S. 9° 10′, E 170° 33′ *†	29.74	755.4	82	27.8	91	sse.			1		1		se.	3 h'r	3 h'r	light	var.	clear.
S. S. George S. Homer, S. 1° 39′, W. 121° 51′	29.90	759.4				ese.			4		4		ese.	0	0	mod.	se.	fair.
Bk Godeffroy, S. 46° 22′, W. 87° 38′	29.53	750.0	49.8	9.9	86	wsw.			5		6		wsw.	light	light	mod.	wsw.	squally.
S. St. Francis, S. 51° 39′, W. 84° 00′ *†	29.35	745.5	48	8.9	56	wnw.			7		5		wnw.	1 h'r	1 h'r	h'vy	wnw.	squally.
S. St. David, N. 53° 11′, W. 87° 27′ *†	29.42	747.3	53	11.7	86	sw.			6		7		sw.	2 h'r	2 h'r	r'gh	sw.	squally.
S. Henry Failing, S. 6° 35′, W. 123° 35′*†	29.99	761.7	75	23.9	100	ese.			4		5		ese.	0	0	sm'h	e.	fair.
H. M. S. Espeigle, S. 36° 50′, E. 176° 15′	29.91	759.7	56	13.3	81	wsw.			6		9							squally.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Zanzibar, Africa	29.88	758.9	83	28.3	83	nnw.	2	0.9			8		n.	0	0	sm'h		fair.
U. S. S. Pensacola, S. 15° 10′, E. 78° 01′*	29.79	756.7	81	27.2	70	e.			4		5		e.	light	light	long	ese.	fair.
H. M. S. Coquette, N. 15° 36′, E. 39° 44′	29.89	759.2	87	30.6	72	ne.			1		2					sm'h		d. clouds.
H. M. S. Euryalus, Shakin, Egypt	29.90	759.4	79	26.1	82	e.			2		4	e.						d. clouds.
H. M. S. Tourmaline, S. 17° 35′, E. 52° 54′	29.96	761.0	81	27.2	?	nne.			2							2	ne.	d. clouds.
S. S. Galatia, N. 19° 15′, E. 39° 18′†	29.98	761.5	80	26.7	91	se.			3		6		ese.	0	0	mod.	se.	fair.
S. S. Benalder, N. 6° —′, E. 81° 30′*	29.92	760.0	82	27.8	83	ese.			2-3		0			0	0	sm'h		clear.
S. S. Port Phillip, N. 23° 09′, E. 37° 01′*	29.98	761.5	75	23.9		e.			2-3							sm'h		cloudy.
S. Carondelet, S. 32° 18′, E. 108° 10′*†	30.10	764.5				sse.			3		8		se.	1 h'r	1 h'r	sm'h	ssw.	cloudy.
S. S. Lepanto, N. 16° 45′, E. 59° 11′	30.04	763.0	75	23.9		e.			3		3		ene.	0	0	mod	ene.	clear.

International Chart I. January 4, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 5. 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ALGERIAN.																			
Nemours	.....	.....	30.30	769.5	59.0	15.0	81	se.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Roziere.
Algiers	.....	.....	30.33	770.4	57.2	14.0	98	se.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Aubert.
La Galle	.....	.....	30.35	770.8	60.4	15.8	85	nw.	.....	.....	2	.....	3	.....	.....	inap.	inap.	pretty fair	Fonfrede.
Tunis	.....	.....	30.36	771.2	53.6	12.0	76	w.	.....	.....	2	.....	2	.....	.....	0	0	fair	Delord.
Tebessa	.....	.....	.....	.....	47.1	8.4	100	sw.	.....	.....	3	.....	2	.....	.....	0	0	fair	Hans.
Geriville	.....	.....	.....	.....	59.4	15.2	29	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	Forfert.
Laghouat	.....	.....	30.34	770.7	63.0	17.2	52	e.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.36	771.1	62.2	16.8	51	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia	.....	.....	29.87	758.7	68.0	20.0	75	calm	0	0	.....	.....	10 k	.....	.....	0	0	overcast	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.27	743.4	29.46	748.3	62.5	16.9	81	nnw.	.....	.....	3	.....	6	.....	nw.	0.15	3.8	fair	Com. I. Short, R.N.
Melbourne, Victoria	29.69	754.1	29.79	756.6	69.4	20.8	83	ne.	6	2.7	.....	.....	10	.....	.....	0.04	1.0	dull	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.84	758.0	30.43	772.8	33.8	1.0	63	w.	.....	.....	1	.....	10	.....	.....	0.012	0.3	.....	Prof. Ivan Stozir.
Oracow, I. R Observatory	29.59	751.6	30.41	772.3	30.7	— 0.7	86	nne.	0	0	.....	.....	10	.....	.....	0.004	0.1	.....	Dr. Wierzbiski
Eperies	29.46	748.2	30.40	772.1	28.4	— 2.0	83	calm	.....	.....	0	.....	10	.....	.....	0	0	foggy	Julius Mikolik.
Gratz	29.11	739.4	30.43	773.0	33.4	0.8	77	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.86	733.1	30.42	772.6	21.9	— 5.6	100	se.	.....	.....	1	.....	10	.....	.....	0.024	0.6	.....	Prof. A. Gottschling
Kremsmunster, Obs'y	28.95	735.3	30.36	771.2	33.3	0.7	98	calm	.....	.....	0	.....	10	.....	.....	0.028	0.7	raining	The Staff.
Lemberg	29.34	745.2	30.41	772.3	23.4	— 4.8	72	ne.	.....	.....	2	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.19	766.7	30.30	769.6	50.0	10.0	73	ese.	.....	.....	4	.....	1	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.91	759.8	30.43	772.8	18.3	— 7.6	100	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J
Szegedin	30.14	765.6	30.45	773.3	27.0	— 2.8	.....	n.	.....	.....	1	.....	10	.....	.....	0.047	1.2	.....	Karl Stancel.
Trieste	30.24	768.2	30.34	770.7	48.4	9.6	47	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.67	753.5	30.43	772.8	31.8	— 0.1	96	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BELGIAN.																			
Arlon	28.73	729.8	30.15	765.9	42.8	6.0	99	n.	.....	.....	1	.....	8	.....	.....	0.039	1.0	fog & mist	
Brussels	29.98	761.4	30.17	766.4	48.7	9.3	88	s.	.....	.....	3	.....	10	.....	ssw.	0.016	0.4	.....	
Furnes	30.08	764.0	30.10	764.5	46.8	8.2	95	s.	.....	.....	1–2	.....	10	.....	.....	0	0	.....	
Maeseyck	30.10	764.4	30.22	767.6	46.8	8.2	90	ssw.	.....	.....	1	.....	10	.....	.....	0.008	0.2	.....	
BRITISH.																			
Aberdeen	29.58	751.3	29.68	753.9	45.7	7.6	94	sse.	28	12.5	.....	.....	10	.....	.....	0.455	11.6	raining	W. Boswell.
Bidston, Liverpool Obs'y	.....	.....	29.73	755.1	49.9	9.9	93	sse.	3	1.3	.....	.....	10	.....	.....	.....	.....	raining	John Hartnup.
Bolton, Sharples	29.20	741.7	29.74	755.4	48.7	9.3	93	sse.	12	5.4	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth.
Bradford, Yorkshire	29.37	746.0	29.76	755.9	48.7	9.3	97	sw	.....	.....	4	.....	10	.....	.....	0.05	1.3	raining	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.02	762.5	30.05	763.3	82	27.8	63	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	29.86	758.4	29.98	761.5	47.6	8.7	98	sw.	.....	.....	1.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.86	758.4	30.03	762.7	46.5	8.1	92	s.	.....	.....	2	.....	10	.....	.....	.....	.....	misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.64	752.8	29.86	758.4	52.0	11.1	93	sw.	.....	.....	4	.....	0	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.52	699.0	29.83	757.7	92.0	33.3	56	nw.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	87	30.6	58	ne.	.....	.....	1	.....	0?	.....	.....	.....	.....	d. clouds ?	J. W. Smith.
Galway, Queen's College	29.45	748.0	29.49	749.0	48	8.9	92	s.	.....	.....	3	.....	8	.....	.....	0.32	8.1	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.26	768.6	30.31	769.9	56.0	13.3	87	e.	.....	.....	4	.....	10	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.80	756.9	29.97	761.2	47.5	8.6	92	s.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.70	754.4	30.00	762.0	49.0	9.4	93	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F.R.M.S.
Kew, Observatory	29.94	760.5	29.98	761.5	47.6	8.7	92	ssw.	19	8.5	.....	.....	10	.....	.....	.....	.....	raining	The Staff.
Leicester, Museum	29.58	751.3	29.84	757.9	49.0	9.4	93	s.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	30.17	766.3	30.25	768.3	56.8	13.8	70	nw.	.....	.....	2	.....	4	.....	.....	0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.10	764.5	30.15	765.8	69.0	20.6	77	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.68	753.9	29.90	759.4	48.2	9.0	94	sse.	.....	.....	5	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Plymouth	29.79	756.7	29.86	758.4	51.9	11.1	97	ssw.	.....	.....	5	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	29.43	747.5	29.53	750.0	45.1	7.3	98	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.04	763.0	30.11	764.8	42.0	5.6	87	n.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.50	749.3	29.78	756.4	49.6	9.8	93	ssw.	.....	.....	1	.....	10	.....	.....	0.17	4.3	raining	W. F. Cooper.
Siloth Rectory	29.60	751.8	29.63	752.6	50.9	10.5	94	s.	.....	.....	4	.....	10	.....	.....	0.115	2.9	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.75	755.6	49.2	9.6	91	s.	28	12.5	.....	.....	10	.....	.....	.....	.....	raining	Rev. S. J. Perry.
Strathfield Turgiss	.....	.....	.....	.....	49.1	9.5	95	s.	.....	.....	1.5	.....	10	.....	.....	.....	.....	raining	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.61	752.1	29.64	752.8	50.6	10.3	86	wsw.	33	14.8	.....	.....	8	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.90	759.4	30.30	769.6	53.2	11.8	64	nw.	8.1	3.6	.....	6 cs	0	w.	.....	0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.	29.69	754.1	29.74	755.4	0.0	—17.8	.....	sw.	10	4.5	.....	.....	10 n	.....	.....	0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.73	755.1	29.78	756.4	6	—14.4	71	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.70	754.4	29.76	755.9	0.0	—17.8	87	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall, Ontario	29.85	758.2	30.17	766.3	8.8	—12.9	100	nw.	.....	.....	1	0	0	.....	.....	0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.06	738.1	29.71	754.6	4.0	—15.6	.....	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	29.68	753.9	29.70	754.4	— 2	—18.9	72	w.	40	17.9	.....	.....	10 s	.....	w.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.85	758.2	30.86	783.8	—27	—32.8	76	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton, N. B.	29.79	756.7	29.86	758.4	0.1	—17.7	91	sw.	4	1.8	.....	0	0	.....	.....	0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	29.84	757.9	29.90	759.4	12	—11.1	52	w.	27	12.1	.....	5 ck	0	nw.	.....	0	0	fair	J. Chipman Seeley
Granton, Ontario	29.02	737.1	30.27	768.8	— 3.7	—19.8	95	sw.	2	0.9	.....	0	0	.....	.....	inap.	inap.	blue sky	Jas. Grant.
Halifax, N. S*	29.75	755.6	29.89	759.2	13	—10.6	83	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton, Ontario	29.79	756.7	30.23	767.8	— 3.9	—19.9	75	sw.	.....	.....	2	2 c	0	.....	.....	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.77	756.1	30.15	765.8	— 8	—22.2	51	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.70	754.4	29.74	755.4	14.5	— 9.7	91	nw.	.....	.....	6	5 k	0	nw.	.....	0	0	d. clouds	C. H. Rigby.
London, Ontario	30.36	771.1	30.38	771.6	— 2.0	—18.9	94	w.	.....	.....	2	.....	10 n	.....	.....	0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.87	707.9	30.50	774.7	—12	—24.4	87	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	John Ewart.
Minnedosa, N. W. T	28.58	725.9	30.94	785.9	—30	—34.4	100	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	29.81	757.2	30.04	763.0	—10	—23.3	90	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.85	758.2	30.12	765.0	—19.7	—28.7	40	w.	.....	.....	.....	.....	10 s	.....	.....	0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.43	747.5	30.25	768.3	—18	—27.8	49	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.34	745.2	30.16	766.1	— 3.9	—19.9	68	sw.	.....	.....	1	0	0	.....	.....	0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.72	754.9	30.45	773.4	—18	—27.8	69	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.45	748.0	30.24	768.1	— 3	—19.4	100	w.	5	2.2	.....	.....	10 n	.....	.....	0	0	cloudy	R. Morgan.
Port Stanley, Ontario	29.55	750.6	30.28	769.1	— 2	—18.9	100	w.	8	3.6	.....	.....	10 n	.....	w.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	28.20	716.3	31.01	787.6	—35	—37.2	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.51	749.5	29.91	759.7	— 6	—21.1	91	sw.	12	5.4	.....	5 c	0	w.	.....	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.67	753.7	30.21	767.3	—10	—28.3	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
St. Andrews, N. B.	29.81	757.2	29.86	758.4	8	—13.3	76	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	29.74	755.4	29.89	759.2	6.0	—14.4	75	w.	24	10.7	.....	1 c	1 k	w.	.....	0	0	blue sky	G. Hutchinson.
Saint John's, N. F.	29.55	750.6	29.82	757.4	24	— 4.4	100	w.	.....	.....	2	.....	10 ks	.....	.....	0.05	1.3	cloudy	J. Higgins.
St. Pierre, N. F.	.....	.....	29.72	755.0	23.7	— 4.6	.....	nw.	.....	.....	8	.....	.....	.....	.....	0	0	.....	The Commandant.
Saugeen, Ontario*	29.41	747.0	30.21	767.3	3	—16.1	91	ne.	4	1.8	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian—Continued.																			
Stratford, Ontario			30.28	769.1	— 5.6	—20.9	78	w.			3	0	3 ks			0	0	cloudy	W. Mc Bride, M. A.
Sydney, C. B*	29.72	754.9	29.78	756.4	11	—11.7	87	sw.	16	7.2		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.79	756.7	30.22	767.6	2	—16.7	87	w.	6	2.7			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.09	738.9	30.30	769.6	— 2.8	—19.3	87	sw.	21	9.4			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.84	757.9	29.91	759.7	20	— 6.7	73	w.	21	9.4			10 k		w.	0.05	1.3	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.87	758.7	29.90	759 4	72.0	22.2	98	sw.				0	7 s			0	0	hazy	I. Garfelt.
Cape Town, The Castle	29 76	755.9			70.0	21.1	68	se.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.87	707.9			81	27.2	61									0.03	0.8		J. T. Eustace
Chilian.																			
Coquimbo	29.95	760.8	30.03	762.8	63.3	17.4	93	n.			2	10	0					cloudy	Samuel Redolez.
Iquique	29.94	760.5	29.97	761.2	67.8	19.9	81	sw.			2							cloudy	Rafael Moreno.
Niebla	29.53	750.1	29.64	752 8	59.0	15.0	68	e.			1	0	2 n		w.	0.220	5.6	fair	Federico Köhling.
Punta Caldera	29.86	758.4	29.95	760.6	64.4	18.0	73	se.			2	6 k	0	se.				fair	Manuel Tobar.
Punta Corona	29.86	758.4	30.04	763.1				w.			3		10			1.063	27.0	raining	Francisco Alvarado.
Valparaiso	29.85	758.3	29.99	761.8	64.4	18.0	85	sw.				0	0					clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.38	771.6	30.40	772.2	33.8	1.0	85	e.	3.8	1.7			0			0	0		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.31	769.8	30.35	771.0	31.1	— 0.5	77	sse.	11	5			8						Oversergent Fischer.
Faröe	30.21	767.4	30.23	767.9	32.2	0.1	89	se.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.03	737.3	29.07	738.4	22.6	— 5.2	85	se.			2		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.60	751.7	29.64	752.8	32.9	0.5	85	e.			4		0						A. O. Thoriacius.
Thorshavn	29.61	752.1	29.63	752.7	42.8	6.0	99	ese.	14.5	6.5			10					raining	Overloerer Bergh.
Vestervig	30.16	766.1	30.26	768.5	30.4	— 0.9	88	se.			2		6						Loerer Oesternol.
Egyptian.																			
Cairo	29.86	758.4			59.0	15		sw.	0.9	0.4		0	3 ks			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.66	753.3	30.32	770.2	48.9	9.4	97	sse.			1					0	0	misty	M. Labroue, Director.
Alençon, Normal School	29.90	759.4	30.45	773 4	48.9	9.4	95	sw.			1		10 k			0	0	covered	M. Nicot, Director.
Arras, Normal School			30.20	767.0	48.0	8.9	98	se.			4		5		se.	0.020	0.5	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.26	768.6	30.34	770.6	50.0	10	84	n.			1				sw.	0.110	2.8		M. Giraud, Director.
Bar-sur-Seine	29.67	753 7	30.24	768.1	47.8	8.8	86	sse.			1		8		s.	0	0	very cloudy	M. Saillard, Director
Beauvais, Normal School	29.91	759.8	30.19	766.8	47.1	8.4	92	sse.			1		10			0.024	0.6	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.39	746.4	30.33	770.3	40.6	4.8	97	s.			1				n.	0.098	2.5	foggy	M. Gobin, Director.
Bordeaux, Observatory	29.91	759.7	30.18	766.5	53.4	11.9	74	se.			1		2			0.008	0.2	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.65	753.2	30.21	767.4	54.5	12.5	72	sw.			2		k		sw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.75	755.7	30.00	761.9	54.0	12.2	98	sw.			2		10		sw.			raining	M. de Kermarée, Dir.
Caen, Normal School	29.95	760.7	30.02	762.6	51.4	10.8	95	ese.			1		5		wnw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.89	759.3	30.22	767.6	48.7	9 3	89	sse.			2		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.69	754 1	30.21	767.3	48.6	9.2	71	s.			1		0			0	0	clear	M. Noël, Director.
Clermont-Ferrand Obs'y	28.87	733.3	30.24	768.2	51.3	10.7	75	s.			1		5 cn			0.008	0.2		M. Alluard, Director.
Cluny, Normal School	29.43	747.4	30.34	770.6	45.7	7.6	91	s.			1		10		s.	0.071	1.8		M. de Villemontée, Dir.
Commercy, Normal School	29.40	746.8	30.28	769.1	45.1	7.3	94	s.			1		10		s.	0	0	foggy	Dr. Coulet, Director.
Gap, Normal School	27.72	704.2	30.32	770.2	47.8	8.8	48	calm			0	1 c				0	0		M. Jarach, Director.
Grénasque, du Rhone	29.17	740 9	30.32	770.1	50.5	10.3	86	se.			1		7		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.56	750.7	30.35	771.0	40.6	4.8	90	e.			2		n		e.	0	0		M. Ablard, Director.
Guéret, Normal School	28.59	726.1	30.15	765.9	56.3	13.5	77	sw.			6		5 kn		s.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.64	752.8	30.21	767.4	60.4	15.8	62	e.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.94	760.5	30.04	763.1	53.6	12.0	80	sse.			2		10		s.	0.228	5.8	misty	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.23	742.4	30.32	770 0	46.8	8.2	84	se.			1	0	5 n			0.091	2.3	cloudy	M. André, Director.
Mans, Normal School	29.84	757.8	30.15	765.8	48.0	8.9		ssw.			1		ks			0.024	0.6		M. Richard, Director.
Marseille, Observatory	30.03	762.8	30.30	769 7	58.1	14.5	63	se.			1		7		se.	0	0		M. Stephan, Director.
Montlouis	25.04	635 9	29.88	758.9	46.4	8.0	43	sw.	5.6	2.5			5	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.13	765.2	30.24	768.0	48.9	9.4	100	n.			1		10			0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.46	748.2	30.27	768.8	42.8	6.0	94	wnw.			1					0	0	foggy	M. Hasse, Director.
Nantes, Observatory	29.97	761.2	30.13	765.3	48.4	9.1	89	s.			0–2		10 n		sw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.22	767 6	30.34	770.5	48.7	9.3	97	w.	1.8	0.8			10			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.7			35.6	2.0		wnw.			2		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.23	742.5	30.33	770 3	48.6	9.2	94	n.			1		ns	n.	n.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.31	642.8			42.4	5.8	43	wsw.			3	5 c;ck				0.075	1.9		M. Alluard.
Rochefort, Naval Obs'y	30.13	765 3	30.16	766.1	50.0	10.0	86	sse.			2		10		sw.	0.12	3.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.90	759.5	30.12	765.1	46.4	8	97	se.			1		5		s.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.10	713.7	30.28	769.0	52.0	11.1		e.			1		cn		w.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.11	764.7	30.15	765.9	48.2	9	97	e.			4		2		ese.	0	0	slightly cl'dy	M. Mouillot, Dir.
St. Lô, Normal School			29.91	759.6	50.0	10	93	s.			1		n	sw.	sw.	0	0		M. Delaplanche, Dir.
Saint Maur, Observatory	30.02	762 6	30.19	766.8	46.8	8.2	92	se.			2		10			0.004	0.1	covered	M. Renou, Director.
Toulouse, Observatory	29.55	750 6	30.28	769.1	47.5	8.6	97	ese.			4		10	sse.		0	0	covered	M. Bailland, Director.
Tours	29.98	761.4	30.15	765.9	53.2	11.8	78	sse.			1		10	wnw.	sw.	0	0	covered	M. de Tastes.
Versailles, Observatory	29.68	753.8	30.17	766.3	40.0	7.8	97	s.			1		10			0.079	2.0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.06	763.4	30.21	767.2	60.6	15.9	68	e.	2.0	0.9		6 c;ck				0	0		M. Cartier, Director.
German.																			
Ansbach	28.84	732.5	30.34	770.7	41.7	5.4	89	calm			0		10			0.047	1.2		Prof. Jnedt.
Bamberg	29.44	747.8	30.29	769 4	37.6	3.1	93	calm			0		10			0.028	0.7		Prof. Dr. Hoh.
Berlin	30.22	767.6	30.37	771.5	33.8	1.0	92	s.			2		10			0	0		Meteorological Institute
Breslau	29.87	758.8	30.41	772.5	31.5	— 0.3	81	se.			2		10			0	0		Royal University Obs'y
Carlsruhe	29.83	757.7	30.30	769.7	46.6	8.1	96	calm			0		10			0.189	4.8	dense fog	Albert Senz.
Cassel	29.54	750.4	30.26	768.5	40.1	4.5	90	s.			1		10	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.94	760.4	30.32	770.1	39.9	4.4	98	se.			1		10			0	0		Physical Society.
Friedrichshafen	28.86	733.1	30.32	770.2	43.7	6.5	90	w.			1		8	e.		0.268	6.8	raining	Wilhelm, Chief Tel.
Hamburg	30.22	767.7	30.32	770 0	33.1	0.6	87	se.			3		10			0	0	light fog	E. Preller.
Kiel	30.28	769.1	30.30	769 5	34.2	1.2	81	se.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.90	759.5	30.31	770.7	36.3	2.4	85	e.			2		9	ese.		0	0		H. Leppig, Asst.
Magdeburg	30.13	765.2	30.33	770.4	35.4	1.9	86	se.			1		10			0	0	foggy	Weather Observatory.
Memel	30.32	770.0	30.36	771.2	32.0	0	89	nw.			4		8 k						Issermann.
Munich	28.46	722.9	30.34	770.7	43.0	6.1	95	calm			0		10	sw.		0.130	3.3		Central Station.
Neufahrwasser	30.41	772.3	30.42	772.7	29.1	— 1.6	68	w.			2		0			0	0		A. Lothes.
Neustadt, Palatinate	29.75	755.6	30.28	769.1	45.7	7.6	90	calm			0		10			0	0	foggy	Dicknether.
Stuttgart	29.32	744.8	30.24	768.1	46.4	8.0	86	sw.			1		10			0.075	1.9		Prof. Dr. Schoder.
Wustrow	30.36	771.1	30.38	771.7	32.4	0.2	85	e.			2		10 8			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.70	754.4	30.10	764.4	48.6	9.2		n.			1.0	2	0			0	0	hazy	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.06	763.6	30.12	764.9	72.9	22.7	52	wsw.	13.0	5.8			2			0	0	d. clouds	
Deesa	29.62	752 3	30.10	764.4	80.1	26.7	28	ne.	2.0	0.9			0			0	0	blue sky	
Bombay	30.00	762.1	30.04	763.0	77.1	25.1	73	nw.	12.0	5.4			2	sw.		0	0	d. clouds	
Poona, Yarrowda	28.17	715.6	30.04	763.0	78.8	26.0	23	e.	9.0	4.0			0			0	0	blue sky	
Belgaum	27.47	697 6	30.02	762.4	76.6	24.8	41	e.	6.0	2.7			5	s.	e.	0	0	d. clouds	
Lahore	29.39	745.6	30.17	766.4	61.6	16.4	56	calm	0	0			3			0	0	d. clouds	
Roorkee	29.20	741.6	30.13	765.4	64.8	18.2	49	w.					0			0	0	blue sky	
Agra	29.57	751.0	30.15	765.8	70.2	21.2	43	w.					0			0	0	blue sky	
Nagpur	29.04	737.5	30.11	764.7	71.9	22.0	42	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Tubbulpore	28.76	730.5	30.17	766.3	64.6	18.1	46	calm	0.6	0.3			0			0	0	blue sky	
Lucknow	29.76	755.8	30.15	765.8	63.3	17.4	60	calm	0	0			0			0	0	blue sky	
Allahabad	29.82	757.5	30.15	765.8	61.3	16.3	74	calm	0	0			0			0	0	blue sky	
Patna	29.95	760.6	30.14	765.6	65.0	18.3	61	sw.	2.1	0.9			0			0	0	blue sky	
Hazaribagh	28.05	712.6	30.14	765.6	62.7	17.0	35	nnw.	4.0	1.8			0			0	0	blue sky	
Cuttack	30.03	762.8	30.12	765.0	70.0	21.1	66	e.					0			0	0	blue sky	
Calcutta, Alipore	30.09	764.2	30.11	764.8	63.3	17.4	70	nnw.	1.5	0.7			0			0	0	blue sky	
Dhubri	29.97	761.2	30.10	764.4	65.7	18.7	74	n.	1.4	0.6			0			0	0	blue sky	
Chittagong	30.00	761.9	30.09	764.3	64.8	18.2	85	calm	2.3	1.0			0			0	0	blue sky	
Sibsagar	29.76	755.9	30.11	764.9	58.9	14.9	80	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.66	728.1	30.15	765.9	68.7	20.4	41	wnw.	2.0	0.9			0			0	0	blue sky	
Zanzibar	29.86	758.5	29.89	759.1	80.6	27.0	74	sw.	3.7	1.5			9		ese.	0.25	6.4	d. clouds	
Bellary	28.52	724.4			77.8	25.4	56	e.	8	3.6		6	4 n		se.	0	0	gloomy	
Trichinopoly	29.74	755.4			74.6	23.7	100	ne.	0.1	0.04		5	5			0.8	20.3	overcast	
ITALIAN.																			
Udine	29.89	759.1	30.31	769.9	47.7	8.7	60	ne.	1.3	0.7			4			0	0		Prof. Giovanni Clodig.
Milan	29.79	756.7	30.34	770.5	40.6	4.8	68	ne.	3.8	1.7			9	sse		0	0		Prof. G. V. Schiapparelli
Padua	30.10	766.8	30.30	769.7	44.2	6.8	48	n.	3.1	1.4			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.38	746.2	30.33	770.4	39.9	4.4	77	n.	1.3	0.6			5	e.		0	0		Prof. F. F. Denza.
Genoa	30.11	764.8	30.31	769.8	53.2	11.8	89	se.	0.7	0.3			10	se.		0.024	0.6		Prof. G. M. Garibaldi.
Pesaro	30.28	769.0	30.33	770.3	44.6	7.0	66	n.	9.4	4.2			0			0	0		Prof. Luigi Guidi.
Florence	30.00	761.9	30.26	768.6	45.9	7.7	72	ne.			2		9			0	0		Prof. Costantino Pittei
Leghorn	30.19	766.9	30.28	769.1	48.4	9.1	91	ne.	6.3	2.8			10			0.067	1.7		Prof. P. Monte.
Rome	30.11	764.7	30.29	769.3	53.2	11.8	60	n.	0.7	0.3			3			0	0		Prof. P. Tacchini.
Lecce	29.91	759.8	30.17	766.4	53.4	11.9	68	nnw.	14.3	6.4			4	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.34	745.1	30.20	768.5	46.8	8.2	72	ese.	2.5	1.1			2	ese.		0	0		Prof. D. Conti.
Cagliari	30.10	764.5	30.30	769.5	57.7	14.3	71	nw.			2		9			0	0		Prof. A. Pacinotti.
Palermo	30.04	762.9	30.29	769.4	55.9	13.3	74	n.	3.1	1.4			8	n.		0	0		Prof. G. Cacciatore.
Syracuse	30.20	767.1	30.25	768.3	54.7	12.6	64	se.	3.1	1.4			10	nne.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.74	755.5	30.28	769.2	49.8	9.9	43	nnw.	0	0			7	nw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.10	764.6	30.13	765.3	34.0	1.1	79	nw.			4		10 k		nw.	0.020	0.5	cloudy	H. Hattori.
Awomori	30.02	762.5	30.06	763.5	32.2	0.1	97	nw.	3.2	1.4			10 s;n			0.032	0.8	overcast	K. Ogawa.
Hakodate	30.06	763.0	30.07	763.9	28.0	— 2.2	80	wnw.	15.0	6.7			9 ck			0	0	overcast	Y. Souma.
Hamamatsu	30.02	762.5	30.12	765.0	42.9	6.1	71	w.			4	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.28	769.0	30.29	769.4	41.5	5.3	78	n.	5.1	2.2		2cs;ks	0	nw.		0	0	clear	Y. Okamoto.
Kagoshima	30.24	768.0	30.25	768.3	44.6	7.0	75	nne.			2	0	0			0	0	clear	
Kanazawa	30.16	766.0	30.26	768.7	30.6	2.6	92	ne.	5.8	2.6			10ks;s			0.160	4.1	overcast	S. Endo.
Kioto	30.07	763.7	30.24	768.1	35.7	3.7	87	nw.	0.4	0.2		0	7ck;ns		nw.	0.005	0.1	light rain	M. Tojima.
Kochi	30.20	767.1	30.22	767.6	46.1	7.8	72	ne.	8.9	3.9		0	1 ck			0	0	clear	K. Kusunose.
Minasaka	30.21	767.4	30.24	768.1	42.1	5.6	91	nnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.90	759.4	30.01	762.2	36.0	2.2	55	wnw.	3.9	1.7		9ck;s	0	nw.		0	0	cloudy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.06	763.5	30.27	768.8	42.6	5.9	94	calm	0	0		0	0			0	0	clear	
Nemuro	29.79	759.7	29.84	757.9	24.0	— 4.4	53	w.	30.0	13.4			10 n					snowing	A. Shibuya.
Niigata	30.18	766.6	30.22	767.6	37.2	2.9	77	n.	4.5	2.0			10 ks		n.	0.090	2.3	covered	Satoo & Tomikawa.
Nohiru	30.05	763.1	30.06	763.5	36.9	2.7	68	nnw.	21.8	9.7		0	8 ks		nw.	0.040	1.0	fair	Yoshino & Midzushina.
Numadzu	30.00	762.0	30.03	762.8	43.7	6.5	86	ne.			1	1 ck	7 s			0	0	cloudy	T. Ohgi.
Osaka	30.24	768.0	30.25	768.4	38.9	3.8	80	nne.	4.7	2.1		0	0			0	0	clear	H. Omura.
Sakai	30.29	769.3	30.30	769.5	42.8	6.0	65	ne.			2		10 ks		w.	0.004	0.1	cloudy	Yamawchi & Sakamoto.
Sapporo	29.97	761.3	30.04	763.1	23.1	— 4.9	89	nw.	18.3	8.1			10 n		nw.	0.140	3.6	covered	S. Kimura.
Shimonoseki	30.14	765.5	30.28	769.2	44.6	7.0	75	ne.			1	ck	10 s	nw.	nw.	0	0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.97	761.2	30.05	763.2	42.8	6.0	57	n.	23.6	10.5		0	7ks;ck		w.	0	0	cloudy	The Staff.
Wakayama	30.19	766.9	30.25	768.3	43.6	6.4	74	n.	1.9	0.8		2ck;cs	0	n.		0	0	clear	K. akai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.76	755.9	29.98	761.5	76.5	24.7	80	se.	6.5	2.9			9kn;ks			0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.39	619.5	30.31	769.9	40.6	4.8	84	n.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.89	759.3	30.10	760.0	66.0	18.9	52	nne.	1.6	0.8		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.14	765.6	30.14	765.6	46.0	7.8		s.			4					0.031	0.8		
Groningen	30.21	767.3	30.20	768.7	35.1	1.7		se.			1					0.043	1.1		
Helder	30.18	766.6	30.18	766.6	41.4	5.2		se.			2					0.169	4.3		
Hellevoetsluis	30.16	766.0	30.16	766.0	48.9	9.4	96	sse.			2					0.020	0.5		
Utrecht	30.15	765.7	30.20	767.1	43.9	6.6	100	s.			2		2			0.035	0.9	foggy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.92	759.9			79.3	26.3	83	n.	0	0			6			0.291	7.4		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.08	764.0	30.14	765.6	36.0	2.2	68	s.	16	7			0			0	0		
Bronø	29.89	759.2	29.93	760.2	35.6	2.0	66	w.			6		8			0	0		
Christiania	30.14	765.6	30.30	769.7	10.8	—11.8	93	e.	7	3			5			0	0		
Gjesvær	29.67	753.5	29.69	754.1	18.5	— 7.5		nw.			4		7			0.020	0.5		
Lodingen	29.76	756.0	29.81	757.2	23.9	— 4.5	77	wnw.			2		10			0.197	5.0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.93	760.1	30.01	762.3	61.2	16.2	84	nne.	4.3	1.9			10			1.476	37.5	raining	Capt. D. A. de Cunha.
Lisbon, Observatory	29.93	760.1	30.27	768.8	57.7	14.3	74	nne.	11.2	5.0			9	ssw.		0	0		The Staff.
Ponta Delgada, Azores	29.95	760.7	30.02	762.5	61.2	16.2	61	nne.	3.1	1.4			4			0.047	1.2		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	29.94	760.5	29.97	761.3	72.0	22.2	72	nne.			3		1			0	0		
San Salvador, Congo	28.03	712.0	29.80	757.0	86.5	30.3	58	ne.			3		8			0.709	18.0		
Serra da Estrella	25.52	648.1	30.27	768.9	50.4	10.2	63	ssw.	13.0	5.8			10			0.004	0.1	light rain	
RUSSIAN.																			
Akmolinski	29.39	746.5	30.64	778.2	— 9.0	—22.8	83	ssw.	9	4		1 c	0			0	0		Major K. Lasarew.
Archangel	29.65	753.1	29.67	753.0	4.3	—15.4	93	s.	2	1		0	6 ks			0	0	light fog	Capt. Seellwerstow
Ashurada	30.17	766.2	30.07	763.8	50.0	10.0	79	nne.	11	5		2 cs	0			0	0		
Astrakhan	30.10	764.6	30.02	762.6	30.2	— 1.0	100	calm	0	0			10			0	0	dense fog	Capt. Wisganow.
Baku	30.06	763.4	30.01	762.2	46.4	8.0	46	sw.	18	8		0	0			0	0		
Barnaul	30.30	769.7	30.88	784.4	— 3.1	—19.5	87	sw.	9	4			1			0	0		Meteorological Office.
Bielosersk	29.34	745.1	29.85	758.2	1.0	—17.2	91	nnw.	9	4		3 cs	0			blank	blank		
Dorpat	29.82	757.3	30.08	764.0	16.3	— 8.7	85	calm	0	0			9 ks			0.067	1.7		Observatory.
Ekaterinburg	28.92	734.6	29.95	760.7	16.7	— 8.5	70	ssw.	13	6			10			0	0		Meteorological Obs'y.
Elissawetgrad	29.63	752.6	30.12	765.0	14.4	— 9.8	71	nw.	13	6		2 c	0			inap.	inap.		
Kasan	29.36	745.8	29.65	753.1	16.5	— 8.6	88	sse.	18	8			10			0	0		Observatory.
Kem	29.74	755.5	29.79	756.8	— 1.8	—18.8	88	w.	4	2			10			0	0	h'vy clouds	
Kertch	29.95	760.7	29.97	761.3	34.0	1.1	83	calm	0	0			10 n			0	0		Lagorio & Sastyres.
Kieff	29.41	747.0	30.10	764.6	14.5	— 9.7	68	nw.	9	4			7 ks			0.020	0.5	light clouds	Observatory.
Koslov	28.97	735.9	29.50	749.4	16.3	— 8.7	86	ssw.	22	10		0	10 s			0.047	1.2	snowing	
Lgov	29.19	741.3	29.82	757.3	15.1	— 9.4	84	wnw	31	14			10			0.028	0.7	snowing	R. I. Ssaweljew, Engin'r.
Libau	30.26	768.6	30.28	769.2	30.9	— 0.6	59	nw.	18	8			7			0.024	0.6		[illegible]
Lugan	29.60	751.7	29.8[illegible]	757.2	27.1	— 2.7	77	wsw.	34	15			10			inap.	inap.		Meteorological Obs'y
Moscow	29.04	737.5	29.56	759.7	9.7	—12.4	87	n.	13	6			10 s			0.181	4.6	snow-drift	Meteorological Obs'y
Nertschinsk	27.88	708.1	30.51	775.0	—14.3	—25.7	87	w.	2	1			0			0	0		

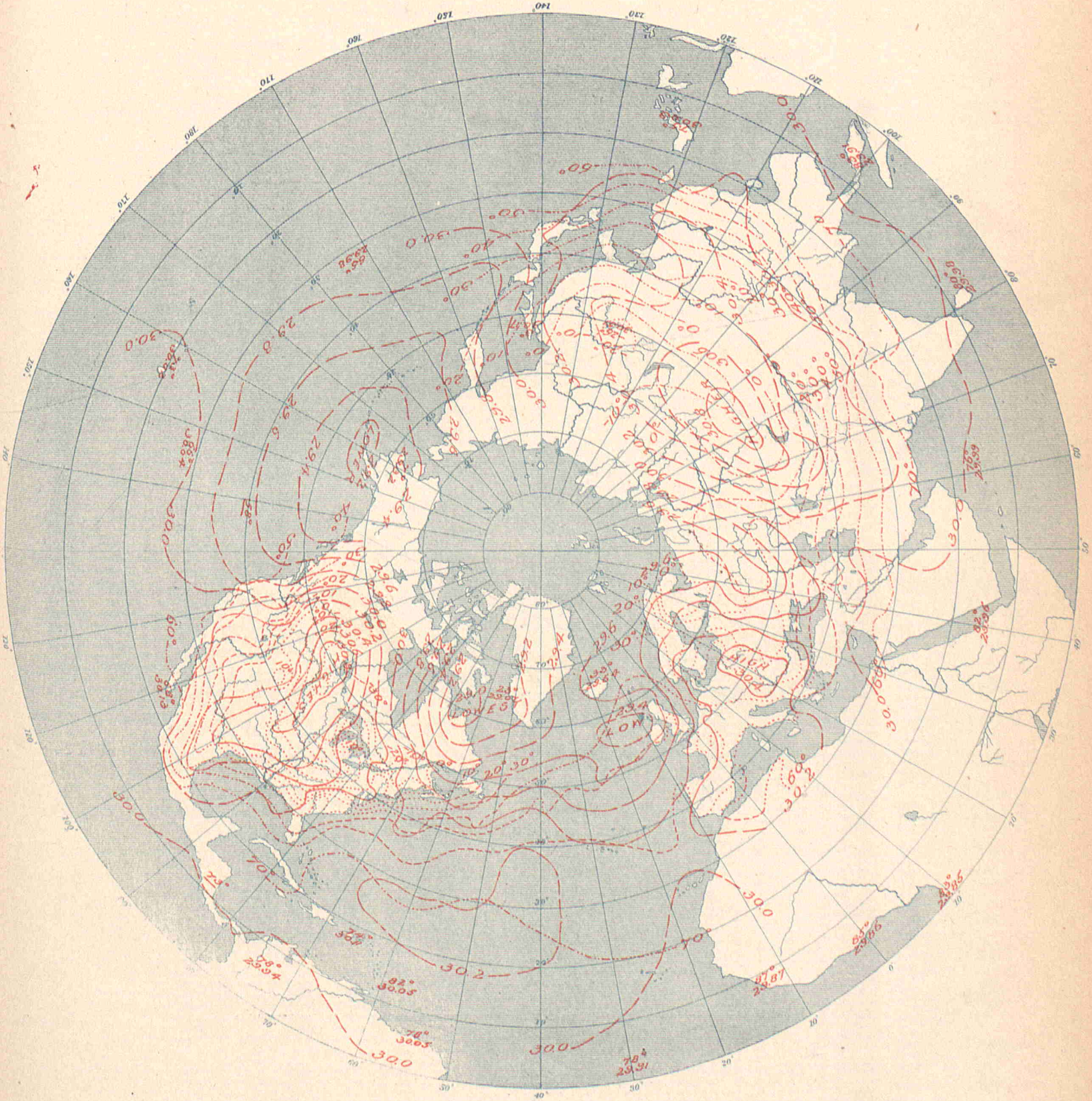
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Nikolaiev	30.02	762.4	30.09	764.2	23.0	— 5.0	88	nw.	45	20			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolievsk-on-the-Amoor.	30.08	754 0	30.17	766.2	3.2	—16.0	83	w.	2	1		9 ck	0						Iwanow.
Pekin, China	30.12	765.0	30.26	768.6	25.3	— 3.7	65	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.94	760 4	30.31	769.9	31.1	— 0.5	64	e.	1.1	0.5		0	0						
Petrozavodsk	29.74	755.5	29.97	761.1	— 2.2	—19.0	76	wsw.	11	5		0	0			0	0		Dr. Bergmann.
Pinsk	29.83	757.6	30.37	771.4	14.4	— 9.8	67	nw.	9	4		0	0			0.047	1.2		
Poti	29.98	761.5	30.01	762.3	51.3	10.7	65	e.	4	2		0	5 ks			0	0		
St. Petersburg	30.04	762.9	30.06	763.5	6.4	—14.2	70	nw.	4	2		cs	7 kn			0.047	1.2		Central Physical Obs'y.
Samarkand	27.77	705.3	30.35	771.0	34.7	1.5	80	calm	0	0			9 k						
Semipalatinsk	30.20	767.0	30.96	786.4	— 6.3	—21.3	78	w.	4	2			0			0	0		Major Lasarew
Sevastopol	29.81	757.1	30.03	762.7	37.6	3.1	76	n.	20	9			10 n			0	0		
Starol Bykhov	29.50	749 4	30.11	764.8	11.5	—11.4	68	nw.	31	14		0	4 k			0.217	5.5	snow drift	
Tashkend, Laboratory	28.61	726.7	30.45	773.3	16.2	— 8.8	80	calm	0	0		0	2 k						Torch, A. M
Tiflis	28.64	727.4	30.12	765.1	34.3	1.3	70	calm	0	0			10			0	0		Physical Observatory.
Vernoe	27.51	698.8	30.29	769.4	3.4	—15.9	73	calm	0	0		0	0						
Viatka	28.90	734.1	29.57	751.0	18.0	— 7.8	96	s.	22	10			10			0.126	3.2		
Vladivostock	30.23	767.8	30.30	769.5	9.9	—12.3	58	n.	18	8		0	0			0	0		
Warsaw	30.00	761.9	30.45	773.5	23.7	— 4.6	70	calm	0	0		0	0			0	0		Astronomical Obs'y.
Yeniseisk	30.28	769.0	30.60	777.2	1.0	—17.2	78	w.	11	5			2			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.95	735.3	29.50	749.3	8.2	—13.2	72	nnw.	21	9.4			10 n			0.03	0.8	cloudy	Prof. S. Fadeleff.
Spanish.																			
Barcelona, Met. Obs'y	30.15	765.9	30.27	768.8	60.3	15.7	82	w.								0	0	hazy.	B. J. Elin.
Bilbao, Met. Obs'y	30.12	765.0	30.18	766.5	75.7	21.4	44	sw.	2.9	1.3			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.32	693.9	30.31	769.8	55.4	13.0	63	s.	4.9	2.2		0	4			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.10	713.8	30.38	771.6	53.8	12.1	77	ne.	4.7	2.1		5	0			0	0		The Staff.
Murcia, Met. Obs'y	30.19	766.7	30.31	769.8	66.0	18.9	75	sw.	0.9	0.4		2	4	e.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.15	740.5	30.04	763.1	60.4	15.8	75	s.	29.8	13.3			10			0.102	2.6	sprinkling	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.04	763.0	30.11	764.7	64.1	17.8	94	e.	0.9	0.4		1 ck	2 k;s	wsw.	w.	inap.	inap.	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.03	762.8	30 09	764.3	75.0	23.9	78	ne.	3.3	1.5		0	2 ks		ne.	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.18	766.5	30.28	769.1	62.1	16.7	71	ese.	17.3	7.8		5	1	e.	e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30 02	762.4	30.11	764.7	74.1	23.4	75	calm	0	0		4 s	1 k	se.	se.	0.008	0.2		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.95	760.8	29.99	761.8	—15.2	—26.2	80	calm			0		0			0	0		
Umea	29.97	761.2	30.02	762.5	18.3	— 7.6	95	nw.			2		7			0	0		
Hernosand	30.04	762.9	30.09	764.2	23.7	— 4.6	77	calm			0		2			0	0		
Stockholm	30.08	764.0	30.26	768.5	20.1	— 6.6	79	w.			4		1			0	0		
Wisby	30.22	767 7	30.28	769.2	29.8	— 1.2	92	nw.			7		3			0	0		
Sub-series.																			
Upsala	30.15	765.7	30.22	767.7	14.0	—10.0	87	sw.	6.7	3.0			2	n.		0	0		H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.13	765.4	41.0	5.0	56	n.	22	10.0			8		ne.	0	0		The Observatory.
Valona			30.16	766.1	52.2	11.2		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.90	759.5	57.9	14.4	60	sw.			3	cs	7 n		sw.	0.86	21.8		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.09	764.3	30.18	766.6	14	—10.0	27	ne.	3	1.3			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.57	751.1	30.28	769.1	4	—15.6	79	nw.	8	3.6			10 s			inap.	inap.	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.19	639.8	30.31	769.9	19.0	— 7.2	80	ne.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assiniboine, Ft., Montana	27.36	694.9	30.40	772.1	—14.0	—25.6	100	ne.	8	3.6			10 n		n.	0.02	0.5	light snow	F. Newman.
Atlanta, Georgia	28.97	735.8	30.20	767.1	19.0	— 7.2	84	nw.	26	11.6			10 s		nw.	0.12	3.0	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.15	765.8	30.16	766.1	13.0	—10.6	80	n.	9	4.0			10 n		n.	0.02	0.5	light snow	B. A. Blundon.
Augusta, Georgia	29.92	762 0	30.12	765.0	41	5.0	73	s.	2	0.9			10 s		s.	inap.	inap.	threatening	W. J. Evans.
Baltimore, Maryland	30.20	767.1	30.25	768.3	14	—10.0	64	n.	12	5.4			10 s		n.	0.01	0.3	threatening.	Geo. W. Felger.
Barnegat City, New Jersey	30.16	766.1	30.18	766.6	13.0	—10.6	80	n.	15	6.7			10 n		n.	0.01	0.3	light snow	F. L. Johnson.
Bennett, Fort, Dakota	29.08	738 6	30.82	782.8	—21.0	—29.4	100	calm	0	0		0	hz.			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.38	695.4	30.36	771.1	—14.5	—25.8	100	ne.	4	1.8			10 s			0.05	1.3	cloudy	Thomas Morgan.
Bismarck, Dakota	28.79	731.3	30.79	782.1	—31	—35.0	100	calm	0	0		0	5 s			0	0	fair	B. O. Lenoir.
Block Island, Rhode Island	30.09	764.3	30.12	765.0	15.0	— 9.4	74	n.	16	7.2			10 s			0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.22	691.4	30.15	765.8	30	— 1.1	88	nw.	3	1.3			10 s			0.29	7.4	cloudy	James Kenealy.
Boston, Massachusetts	29.90	759.4	30.07	763.8	8.4	—13.1	68	w.	12	5.4			10 s		nw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.35	770.9	30.41	772.4	39.4	4.1	65	n.	17	7.6			10 s			0	0	cloudy	John McGlone.
Buffalo, New York	29.43	747.5	30.22	767.6	5.2	—14.9	85	w.	18	8.0			10 s		w.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.47	723.1	30.70	779.8	—23	—30.6	100	e.	11	4.9			10 s		e.	0	0	cloudy	A. Schneider.
Cairo, Illinois	30.31	769.9	30.73	780.5	—13.0	—25.0	81	ne.	16	7.2			10 s		ne.	0.10	2.5	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.51	749.5	29.71	754 6	49.0	9.4	89	se.	56	25.0			9 ks		s.	0.09	2.3	cloudy	J. H. Young.
Cape Henry, Virginia	30.08	764.0	30.10	764.5	32.0	0.0	68	n.	20	8.9			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.16	766.1	30.19	766.8	15.0	— 9.4	83	n.	28	12.5			10 n			0.04	1.0	light snow	W. E. Smith.
Cape Mendocino, California	29.05	737.9	29.75	755.6	56	13.3	74	se.	80	35.8			10 s		se.	inap.	inap.	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	44.0	6.7	83	e.	1	0.4			10 s		e.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	29.05	763.3	30.11	764.8	40.0	4.4	73	sw.	4	1.8		0	5 s			0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.12	739.6	30.01	762.2	40.0	4.4	69	sw.	5	2.2		10 cs	fg.	sw.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.57	751.1	30.43	772.9	5.5	—14.7	62	nw.	20	8.9		0	4 ks		nw.	inap.	inap.	fair	B. L. Goulding.
Cheyenne, Wyoming	24.00	609.6	30.26	708.6	22.6	— 5.2	55	nw.	16	7.2		0	0			0.04	1.0	clear	E. McGovern.
Chicago, Illinois	29.78	756.4	30.54	775 7	—18.5	—28.1	67	w.	8	3.6		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	19	— 7.2	84	n.	32	14.3			10 n		n.	inap.	inap.	light snow	C. F. Dickens.
Cincinnati, Ohio	29.87	758.7	30.56	776.2	— 8.2	—22.3	76	nw.	6	2.7		0	0			0.15	3.8	clear	L. Dunne.
Cleveland, Ohio	29.57	751.1	30.35	770.9	—10.0	—23.3	51	w.	10	4.5		0	2 s		w.	0.01	0.3	clear	W. Line.
Columbus, Ohio	29.55	750.6	30.45	773.4	—15	—26.1	65	w.	8	3.6		0	0			0.03	0.8	clear	F. T. Williams.
Concho, Fort, Texas	28.67	728.2	30.09	779.5	5.0	—15.0	54	n.	12	5.4		0	0			0	0	clear	C. E. King.
Custer, Fort, Montana	27.01	686.0	30.39	771.9	— 6	—21.1	79	n.	1	0.4		0	8 s			0.28	7.1	cloudy	W. J. Daily.
Davenport, Iowa	29.97	761.2	30.68	779.3	—17	—27.2	62	nw.	7	3.1		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.48	647.2	30.46	773.7	9.1	—12.7	83	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.16	715.3	29.97	761.2	31.5	— 0.3	92	ne.	5	2.2			10 s		w.	0.24	6.1	cloudy	H. S. Blandford.
Deadwood, Dakota	25.42	645.7	30.38	771.6	— 4.1	—20.1	83	calm	0	0			10 s			0	0	cloudy	G. Kingsbury.
Delaware Breakwater, Del.	30.16	766.1	30.18	766.6	18.8	— 7.3	100	n.	32	14.3			10 n		n.	inap.	inap.	light snow.	G. A. Martin.
Denver, Colorado	24.82	630.4	30.34	770.6	5.0	—15.0	81	s.	3	1.3		0	4 s			0	0	fair	F. M. Neal.
Des Moines, Iowa	29.80	756.9	30.77	781.5	—24	—31.1		nw.	6	2.7		0	0			inap.	inap.	clear	F. W. Conrad.
Detroit, Michigan	29.61	752.1	30.37	771.4	— 4.0	—20.0	65	w.	10	4.5		0	0			0	0	clear	N. B. Conger.
Dodge City, Kansas	27.91	708.9	30.66	778.7	— 1	—18.3	72	nw.	3	1.3		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.90	759 4	30.67	779.0	—23.7	—10.7	57	nw.	2	0.9		0	3 s			0	0	clear	J. Harvey Smith
Duluth, Minnesota	29.84	757.9	30.66	778.7	—22	—30.0	100	sw.	6	2.7		0	0			0	0	clear	E. R. Brace.
Eastport, Maine	29.84	757.9	29.91	759.7	7.0	—13.9	76	sw.	13	5.8		0	2 s		sw.	0	0	clear	D. O. Murphy.
Elliott, Fort, Texas	27.74	704.6	30.66	778.7	2.8	—16.2	76	ne.	3	1.3		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.50	673.1	30.38	771.6	23.2	— 4.9	73	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.51	749.5	30.28	769.1	— 0.8	—18.2	77	sw.	10	4.5			10 n			0.20	5.1	light snow	C. A. Shaw.
Escanaba, Michigan	29.67	753.6	30.39	771.9	— 7.0	—21.7	68	w.	14	6.3		1 cs	0	w.		0	0	clear	L. M. Pindell.
Fort Smith, Arkansas	30.24	768.1	30.74	780.8	— 2.0	—18.9	65	n.	10	4.5		0	0			0	0	clear	J. B. Campbell.
Galveston, Texas	30.35	770.9	30.39	771.9	32	0.0	68	n.	28	12.5		0	9 s		n.	0.10	2.5	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.68	753.9	30.39	771.9	12.0	—11.1	80	w.	19	8.5			10 s		w.	0.07	1.8	cloudy	Joseph E. Mueller.
Grant, Fort, Arizona	25.37	644.4	30.27	768.8	31.8	— 0.1	56	ne.	5	2.2		0	0			0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.07	763.8	30.08	764.0	43.0	6.1	60	sw.	14	6.3	.....	hz.	3 k	.....	sw.	0	0	clear	R. M. Crawford.
Helena, Montana	25.95	659.1	30.33	770.4	.....	.....	.....	n.	1	0.4	.....	.....	10 s	.....	.....	0.32	8.1	cloudy	S. W. Morrison.
Huron, Dakota	29.30	744.2	30.84	783.3	—27.4	—33.0	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.70	754.4	30.54	775.7	—22.0	—30.0	100	nw.	8	3.6	.....	0	0	.....	.....	0.01	0.3	clear	C. F. R. Wappenhans.
Indianola, Texas	30.44	773.2	30.48	774.2	23.0	— 5.0	55	n.	36	16.1	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.12	765.0	30.18	766.6	42.5	5.8	78	w	4	1.8	.....	6 ck	2 s	w.	.....	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	30.05	763.3	30.75	781.0	—23.0	—30.6	.....	nw.	.....	.....	1	0	0	.....	.....	inap.	inap.	clear	F. Z. Gosewisch.
Key West, Florida	30.09	764.3	30.11	764.8	62	16.7	86	ne.	4	1.8	.....	4 ck	0	sw.	.....	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	40.0	4.4	57	w.	13	5.8	.....	.....	10 s	.....	w.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	30.33	770.4	30.41	772.4	2	—16.7	77	n.	13	5.8	.....	.....	10 n	.....	.....	0.92	23.4	light snow	J. A. Cody.
La Crosse, Wisconsin	29.81	757.2	30.65	778.5	—25	—31.7	100	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	S. C. Emery
Leavenworth, Kansas	29.86	758.4	30.82	782.8	—20	—28.9	100	n.	7	3.1	.....	0	0	.....	.....	0.04	1.0	clear	T. S. Outram.
Lewiston, Idaho	29.14	740.1	30.01	762.2	37.5	3.1	82	calm	0	0	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	C. E. Butler.
Little Rock, Arkansas	30.32	770.1	30.66	778.7	9.0	—12.8	76	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.79	756.7	30.19	766.8	47.0	8.3	63	ne.	9	4.0	.....	5 c	0	ne.	.....	0	0	fair	T. S. Collins.
Louisville, Kentucky	30.00	762.0	30.58	776.7	—15.0	—26.1	100	nw.	12	5.4	.....	0	2 s	.....	n.	0.06	1.5	clear	L. M. Dey.
Lynchburg, Virginia	29.42	747.3	30.14	765.5	23.5	— 4.7	80	nw.	6	2.7	.....	.....	10 n	.....	.....	0.50	12.7	heavy snow	Jno. Healy.
Mackinaw City, Michigan	29.58	751.3	30.28	769.1	10.0	—12.2	80	nw.	4	1.8	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.08	764.0	30.09	764.3	43.0	6.1	64	w.	11	4.9	.....	2 c	1 k	w.	w.	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.52	648.2	30.29	769.4	— 3.2	—19.6	68	ne.	2	0.9	.....	.....	10 n	.....	ne.	0.08	2.0	light snow	F. Burke.
Marquette, Michigan	29.60	751.8	30.38	771.6	2.0	—16.7	45	w.	16	7.2	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	J. Gilligan.
Memphis, Tennessee	30.28	769.1	30.64	778.2	0	—17.8	83	n.	18	8.0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.72	754.9	30.52	775.2	—24.0	—31.1	100	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	S. W. Rhode.
Mobile, Alabama	30.24	768.1	30.28	769.1	35	1.7	87	n.	12	5.4	.....	.....	10 s	.....	n.	0.36	9.1	cloudy	H. U. Jones.
Montgomery, Alabama	30.06	763.5	30.30	769.6	26	— 3.3	76	nw.	17	7.6	.....	.....	10 s	.....	nw.	0.30	7.6	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.71	754.6	30.82	782.8	—30	—34.4	100	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.16	588.3	29.79	756.7	—17.0	—27.2	52	nw.	45	20.1	.....	3 c	4 s	.....	se.	0.02	0.5	fair	Edwd. A. Beals.
Nashville, Tennessee	29.97	761.2	30.58	776.7	— 2.0	—18.9	82	nw.	16	7.2	.....	0	6 n	.....	nw.	0.07	1.8	light snow	L. N. Jesunofsky.
New Haven, Connecticut	29.99	761.7	30.11	764.8	9.5	—12.5	58	w.	3	1.3	.....	10 c	0	.....	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.11	764.8	12.0	—11.1	72	nw.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.22	767.6	30.28	769.1	40.5	4.7	86	nw.	22	9.8	.....	.....	10 s	.....	nw.	0.17	4.3	cloudy	M. Herman.
New York, New York	30.01	762.2	30.20	767.1	11.0	—11.7	70	w.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	H. J. Peurod.
Norfolk, Virginia	30.06	763.5	30.09	764.3	32.5	0.3	83	ne.	12	5.4	.....	.....	10 n	.....	ne.	inap.	inap.	light snow	Wm. Davis.
North Platte, Nebraska	27.47	697.7	30.59	777.0	— 2.4	—19.1	85	calm	0	0	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Mc Lean.
Olympia, Washington T'y	29.75	755.6	29.79	756.7	49.0	9.4	93	calm	0	0	.....	.....	10 n	.....	.....	0.68	17.3	light rain	J. Dascomb.
Omaha, Nebraska	29.55	750.6	30.82	782.8	—24.0	—31.1	.....	n.	9	4.0	.....	0	0 k	.....	.....	0	0	fair	A. Pollak
Oswego, New York	29.78	756.4	30.13	765.3	13.0	—10.6	80	nw.	12	5.4	.....	.....	10 s	.....	w.	0.40	10.2	cloudy	J. G. Linsley.
Palestine, Texas	30.03	762.7	30.61	777.5	9.0	—12.8	55	nw.	7	3.1	.....	0	2 s	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.15	765.8	30.18	766.6	48.3	9.1	95	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.13	3.3	cloudy	M. McGauran.
Philadelphia, Pa.	30.10	764.5	30.21	767.3	12.5	—10.8	61	nw.	15	6.7	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.72	450.1	30.42	772.7	8.0	—13.3	83	nw.	32	14.3	.....	3 cs	0	w.	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.47	748.5	30.32	770.1	— 2.0	—18.9	92	sw.	9	4.0	.....	0	0	.....	.....	0.08	2.0	clear	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	—32.6	—35.9	100	ne.	.....	2	.....	.....	10 s	.....	.....	0	0	cloudy	G. A. Garden.
Port Huron, Michigan	29.51	749.5	30.24	768.1	— 3.4	—19.7	79	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	29.94	760.5	29.99	761.7	9.0	—12.8	76	w.	7	3.1	.....	0	5s;hz	.....	.....	0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.75	755.6	29.82	757.4	44.0	6.7	80	e.	2	0.9	.....	0	2 s	.....	.....	0.03	0.8	clear	M. L. Hearne.
Prescott, Arizona	24.93	633.2	30.31	769.9	23.0	— 5.0	76	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	30.04	763.0	30.07	763.8	13.2	—10.4	64	nw.	11	4.9	.....	10 cs	0	.....	.....	0	0	cloudy	O. N. Kitchel.
Red Bluff, California	29.77	756.1	30.14	765.5	47.5	8.6	95	n.	6	2.7	.....	.....	10 n	.....	n.	0.08	2.0	light rain	J. R. Williams.
Rio Grande City, Texas	30.30	769.6	30.55	776.0	39.0	3.9	45	n.	12	5.4	.....	6 cs	0	nw.	.....	0	0	fair	L. G. Schultz.
Rochester, N. Y.	29.45	748.0	30.16	766.1	6	—14.4	87	w.	19	8.5	.....	.....	10 n	.....	w.	inap.	inap.	light snow	E. W. McGann.
Roseburg, Oregon	29.29	744.0	29.86	758.4	48.4	9.1	73	sw.	1	0.4	.....	0	9 s	.....	s.	0	0	cloudy	J. J. Naury.
Sacramento, California	30.03	762.7	30.11	764.8	50.0	10.0	68	e.	5	2.2	.....	.....	10 s	.....	se.	0	0	cloudy	J. A. Barwick
St. Louis, Missouri	30.09	764.3	30.75	781.0	—18.8	—28.2	50	n.	12	5.4	.....	0	0	.....	.....	0.03	0.8	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.28	743.7	29.32	744.7	7	—13.9	76	ne.	14	6.3	.....	0	0	.....	.....	0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.74	755.4	30.68	779.3	—19.5	—28.6	100	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.82	757.4	30.80	782.3	—24	—31.1	100	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.78	654.8	30.35	770.9	32	0.0	54	se.	1	0.4	.....	0	1 s	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.10	764.5	30.17	766.3	48.8	9.3	71	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.66	753.4	30.38	771.6	— 7	—21.7	58	w.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.16	766.1	30.19	766.8	11.9	—11.2	61	nw.	22	9.8	.....	.....	10 s	.....	.....	0	0	cloudy	V. P. Chappel.
Sanford, Florida	30.10	764.5	30.15	765.8	42.0	5.6	82	n.	2	0.9	.....	10 cs	0	.....	.....	0	0	cloudy	J. B. Marbury
San Francisco, California	30.01	762.2	30.08	764.0	55.7	13.2	71	s.	6	2.7	.....	.....	10 s	.....	sw.	0	0	threatening	N. Gorom.
Savannah, Georgia	30.03	762.7	30.13	765.3	39.7	4.3	56	sw.	4	1.8	.....	8 ck	fg.	w.	.....	0	0	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.47	672.3	30.33	770.4	— 7	—21.7	61	ne.	2	0.9	.....	10 cs	0	.....	.....	0.04	1.0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.29	769.4	30.54	775.7	19.5	— 6.9	60	n.	16	7.2	.....	0	2 s	.....	n.	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.19	741.4	29.26	743.2	40	4.4	52	se.	10	4.5	.....	.....	10 ks	.....	se.	0	0	cloudy	F. W. Fickett.
Smithville North Carolina	30.04	763.0	30.08	764.0	41.8	5.4	71	w.	5	2.2	.....	0	3 s	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.95	709.9	30.09	764.3	20	— 6.7	80	e.	7	3.1	.....	3 c	0	w.	.....	0.35	8.9	clear	D. Moore.
Springfield, Illinois	29.96	761.0	30.69	779.5	—22.2	—30.1	68	nw.	8	3.6	.....	0	0	.....	.....	0.01	0.3	clear	T. B. Jennings.
Stockton, Fort, Texas	27.45	697.2	30.59	777.0	9.0	—12.8	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter.	29.57	751.1	.....	.....	47.4	8.6	94	s.	40	17.9	.....	.....	10 s	.....	s.	1.24	31.5	cloudy	R. Connor.
Thomas, Camp, Arizona	27.50	698.5	30.33	770.4	23.1	— 4.9	88	s.	.....	.....	1	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.65	753.1	30.39	771.9	—10	—23.3	100	w.	12	5.4	.....	.....	10 ks	.....	w.	0	0	cloudy	A. Buell.
Unalashka, Alaska	29.18	741.2	29.20	741.7	25	— 3.9	88	s.	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	Samuel Applegate.
Vicksburg, Mississippi	30.24	768.1	30.51	774.9	20.8	— 6.2	75	n.	16	7.2	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	C. Dill.
Washington, D. C.	30.12	765.0	30.24	768.1	12.3	—10.9	89	nw.	7	3.1	.....	.....	10 n	.....	nw.	inap.	inap.	light snow	T. B. Harrison.
West Las Animas, Colorado	26.29	667.8	30.42	772.7	— 2.5	—16.4	100	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.00	762.0	30.06	763.5	43.0	6.1	43	sw.	6	2.7	.....	7 ck;k	2 s	w.	w.	0	0	cloudy	L. H. Albrecht.
Yankton, Dakota	29.41	747.0	30.83	783.1	—25.4	—31.9	100	n.	3	1.3	.....	.....	10 n	.....	.....	inap.	inap.	light snow	E. H. Thompson.
Yuma, Arizona	30.01	762.2	30.16	766.1	43.7	6.5	46	ne.	4	1.8	.....	0	1 s	.....	n.	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.59	751.6	29.61	752.1	26.0	— 3.3	93	calm	0	0	.....	0	5 k	.....	.....	0.02	0.5	fair	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	72	22.2	.....	nw.	.....	.....	1	0	4 k	.....	ne.	0.13	3.3	fair	W. R. Jackson.
Bogota, U. S. C.	22.02	559.3	.....	.....	50.0	10.0	90	n.	7	3	.....	.....	9 k	.....	s.	0.240	6.1	.....	Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	28.77	730.7	28.94	735.1	—15	—26.1	100	calm	0	0	.....	0	0	.....	.....	0.11	2.8	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.09	764.3	71.0	21.7	87	n.	1	0.4	.....	0	1 s	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	82	e.	.....	.....	2	5 ck	4 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.38	746.2	29.94	760.5	78	25.6	84	calm	.....	.....	0	.....	7 ks	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73.3	22.9	91	ne.	.....	.....	1	.....	.....	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	30.04	763.0	30.11	764.8	—34.0	—36.7	.....	nw.	18	8.0	.....	1 c	1 s	nw.	nw.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.99	761.8	30.00	762.0	77.7	25.4	87	n.	6.5	2.9	.....	0	9 k	.....	n.	.....	.....	fair	P. Fasiani.
Naos, Bay of Panama	29.95	760.6	30.01	762.3	73.0	22.8	98	n.	.....	.....	4	0	1 k	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
S.S. Assyrian Monarch, N. 45° 38′, W. 41° 43′†	30.12	765.0				wnw.			4		4		nw.	0	0	mod.	nw.	overcast.
S. S. Alvo, Por Lim n, C ta Rica, C. A *	30.00	762.0	71	21.7		e.			2		4		calm	0	0			fine.
S. S. Alleghany, Boston, Mass †	30.13	765.3	12	—11.1		w.			1		8			0	0			cloudy.
Bg. Abbie Clifford, N. 42° 31′, W. 67° 44′*†	29.95	760.7	24	— 4.4		w.			6		10		w.	0	0	mod.	w.	overcast.
Schr. Anna A. Holton, N. 33° 33′, W. 76° 02′*†	30.14	765.5	60	15.6		w.			6		5		w.	0	0	r'gh	wnw.	fair.
S. S. Alps, N. 18° 27′, W. 72° 23′ *†	30.10	764.5	82	27.8		calm			0		0			0	0	sm'h		clear.
S. S. Circassian, N. 55° 40′, W. 13° 10′	29.21	741.9	48	8.9	93	w.			3		7		w.			3	nnw.	showery.
S. S. Cienfuegos, N. 22° 05′, W. 74° 22′	30.09	764.3	73	22.8		sse.			2		10		nne.	4 h'r	4 h'r	small	n.	rainy.
S. S. Caracas, Puerto Cabello, Venezuela *†	30.01	762.2	77	25.0	90	sw.			2		3		calm	½h'r	½h'r	mod.	nne.	clear
S. S. City of Augusta New York, N Y †	30.15	765.8				nnw.			6		10		nw.	0	0			cloudy.
S. S. Canada, N. 45° 10′, W. 53° 06′	29.86	758.4	35.6	2.		wsw.			5		10		wsw.			large	wsw.	snowy.
S. Cornelius, N. 34° 32′ W 70° 44′*†	30.08	764 0	61.2	16.2		wsw.			4		7		nw.	1 h'r	1 h'r	cross	nw.	cloudy.
Bk. Diamant, N. 40° 45′, W. 45° 50′	30.13	765.3	57.9	14.4	89	nw.			4		6		wnw.			4	w.	fair.
S. S. Dorian, N 35° 27′, W. 8° 30′	30.22	767.6	67	19.4		e.			5		6		ene.	0	0	long	nw.	fair.
Bk. Don Quixote, N. 53° 18′, E. 3° 45′ *	30.12	765.0	42	5.6		s.			5		fg.			24 h'r	24 h'r		sm'h	foggy.
Bg. Gipsy Queen Matanzas, Cuba, W I *†	30.12	765.0							2		9							hazy.
Bk. Ibis, N. 36° 20′, W 75° 00′*	30.03	762.7				w.			6		3		wnw.	0	0	mod.	nw.	fair.
S. S. Iowa, N. 45° 32′, W. 47° 42′ †	29.94	760.5	42	5.6		sw.			5		0			1 h'r	1 h'r	r'gh	sw.	clear.
Schr. Jas. Slater, N. 24° 40′, W. 65° 35′ *†	30.25	768.3	80	26.7		calm			0		0			½ h'r	½ h'r	h'vy	wnw.	clear.
Bg. Lillian, N. 36° 05′, W. 74° 05′†	29.98	761.5	54	12.2		wnw.			6		2			0	0	r'gh	wnw.	clear.
S, S. Leipzig, N 42° 54′, W. 11° 15′	30.00	762.0	61	16.1	100	ssw.			6		10		ssw.	7 h'r	7 h'r	r'gh	ssw.	raining.
Bg. L. F. Munson, N. 32° 30′, W. 67° 21′ *†	30.15	765 8	63	17.2		sse.			1		10			0	0	long	nw.	hazy.
S. S. Mentmore, N. 48° 04′, W. 40° 54′			50	10.0		w.			9		10			16 h'r	16 h'r	h'vy	w.	stormy.
Bk. Matilda C. Smith, N. 27° 36′, W. 58° 22′*†	30.22	767.6				se.			3		2		sw.	0	0		nw.	clear.
Schr. Maggie Abbott, Fort Liberte, Hayti, W. I*†	30.02	762.5							2		1		e	0	0			clear.
Bk. Matthias, N. 30° 12′, W. 43° 36′ *†	30.32	770.1	69	20.6		n.			2–3		3		s.	0	0	2	nw.	fine.
S. S. New York, N. 36° 12′ W. 75° 00′ *†	30.00	762.0	46	7.8		w			6		5		n.			mod	nw.	fair.
S. S. Neckar, N. 42° 30′, W. 53° 29′	29.95	760.7	39.0	3.9	90	var.			1–3		6		sw.	rain	rain	mod	w	fair.
S. S. Nova Scotian, N. 52° 09′, W. 27° 11′	29.68	753.9	45	7.2		wnw.			5		10		wnw.			con.		cloudy.
S. S. Nederland, N. 49° 40′, W. 8° 31′			52	11.1	86	wsw.			5		8		wsw.	3 h'r	3 h'r	mod.	w.	cloudy.
S. S. Olbers, N. 20° 21′, W. 58° 00	30.23	767.8	75	23.9	90	e.			5		9		e.	3 h'r	3 h'r	mod.	ene.	showery.
S. S. Olinde Rodrignes, N. 49° 30′, W. 13° 44′*†	29.68	753.9	54	12.2		wsw.			5		5		wsw.	sh'rs	sh'rs	long	sw.	fair.
S. S. Pavonia, N. 40° 56′, W. 60° 43′	30.08	764.0	50	10.0	86	wnw.			3		9		wnw.	7 h'r	7 h'r	long	wnw.	cloudy.
S. S. Picqua, Valencia, Spain *†	30.38	771.6	60	15.6	94	calm			0		0			0	0			clear.
S. S. Rhynland, N. 47° 30′, W. 47° 22′	29.82	757.4	43	6.1	58	w.			5		10		w.	sh'rs	sh'rs	r'gh	w.	overcast
S. S. Romano, N. 49° 26′, W. 11° 15′	29.75	755.6	56	13.3		wsw.			4		7		wsw.	5 h'r	5 h'r	mod.	w.	fair.
S. S. Rosse, N. 47° 05′, W. 40° 41′			52	11.1		wsw.			5		8		wsw.	0	0	mod.	nw.	cloudy.
Bk. Rosina, N. 24° 29′, W. 50° 48′	30.25	768.3	76	24.4		n.			2		5		nne.	2 h'r	2 h'r	mod.	n.	stormy.
S. S. Sardinian, N. 45° 26′, W. 58° 47′	29.71	754.6	24	— 4.4		w.			6		5		w.	6 h'r	6 h'r	r'gh	w.	fair.
S. S. Scythia, N. 43° 57′, W. 49° 50′	30.00	762.0	45	7.2	92	s			2		1		calm	3 h'r	3 h'r	h'vy	wsw.	hazy.
S. S. St. Albans, N. 28° —′, W. 54° —′ *	30.20	767 1	72	22.2		calm			0		8		nw.	0	0	gentle	nw.	hazy.
S. S. Thingvalla, Copenhagen, Denmark			35.6	2.		nnw.			2									
Bg. Teneriffe, N. 38° 25′, W. 73° 55′	30.11	764.8				n.			6		1		n.			5	n.	snowy.
Schr. Viola Reppard, N. 38° 55′, W. 70° 57′†	30.08	764.0	45	7.2		n.			3		10		n.	3 h'r	3 h'r	small	w.	snowing.
S. S. Valencia, N. 37° 48′, W. 73° 09′ †	30.04	763 0	42	5.6	66	n.			4		9		n.	0	0	mod.	var.	cloudy.
S. S. Westphalia, Hamburg, Germany	30.25	768 3	34	1.1	90	se.			3		10		s.	0	0			cloudy.
S. S. Andes, Aguadilla, Porto Rica, W. I*†	30.10	764 5	80	26.7		var.			1		1			0	0			clear.
Bk. Ariadne, N. 24° 27′, W. 63° 08′	30.21	767.3	74	23.3		s.			3		2		s.	½ h'r	½ h'r	mod	ese.	clear.
Schr. Annie R Lewis, N. 26° 36′, W. 66° 32′ †	30.24	768.1	76	24.4		s.			1		5		sw.	5 h'r	5 h'r	r'gh	nw.	fair.
Schr. Arthur Burton, Matanzas, Cuba, W.I†	30.07	763.8				calm			0		3		calm	0	0	r'gh	ne.	fine.
U. S. S. Alliance, Port au Prince, Hayti, W.I.	30.01	762.2	72	22.2	85	se.			1		2		calm	0	0	sm'h		clear.
S. S. Bothnia, N. 52° 43′. W. 5° 26′	29.70	754.4			90	sw.			4		10		sw.	12 h'r	12 h'r	sm'h		overcast.
S. S. Chalmette, New York, N. Y †	30.18	766.6	13	—10.6		nw.			5		10		n.	0	c			cloudy.
Schr. Ellen Crusoe, Mayaguez, Porto Rico, W. I*†	30.14	765.5				e.					0			0	0			clear.
S S. Germanic, N. 51° 04′. W. 27° 39′ *†	29.60	751.8	45	7.2	92	wnw			5		8		wnw.	2 h'r	2 h'r	short	wnw.	squally.
S. S. Grecian, N. 2° 11′, W. 30° 29′	29.91	759.7	78	25.6	86	ese.			2		10			5 h'r	5 h'r	light	ne.	overcast.
Bg. John Welsh, jr., N. 27° 45′, W. 89° 44′ †	30.19	766.8				nw.			7		10		nw.			h'vy	nw.	raining.
S. S. Lone Star, N. 31° 50′, W. 80° 00′*†	30.12	765.0				sw.			3		8		sw.	0	0	small	sw.	overcast.
S. S. Lord Clive, N. 43° 03′. W. 63° 58′ 59′						w.			7		7		w.	2 h'r	2 h'r	high	w.	stormy.
S. S. Ontario, N. 52° 18′, W. 35° 15′	29.75	755.6	43	6.1		wsw.			4		4		wsw.	0	0	sm'h	e;sw.	cloudy.
S. S. Orinoco, N 36° 55′, W. 69° 40′ †	30.02	762.5	58	14.4		w.			2		10		wnw.	2 h'r	2 h'r	mod.		cloudy.
S. S. Rhaeti , N. 50° 19′, W. 20° 27′	29.63	752.7	51	10.6		w.			2		5		nw.	0	0	sm'h	e.	fair.
Bk. Saga, N. 24° 43′, W. 27° 20′ *†	30.08	763 9	67.5	19.7		var.			5		3			0	0	h'vy	nnw.	fair.
S. Storm King, N. 28° 48′, W. 36° 43′ *†	30.19	766.8				nne.			1		6		nne.	2 h'r	2 h'r	high	n.	fair.
S. S. Samaria, Boston, Mass			11	—11.7		wnw.			3					0	0			clear.
S. S. Salerno, N. 49° 29 . W. 11° 53′ †	29.75	755.6	54	12.2		wnw.			5		4		w.	0	0	mod.	w.	fine.
S. S. St. Laurent. N. 42° 30′, W. 60° 15′	30.02	762.5	37.4	3		w.			6		4		w.	0	0	large	w.	fair.
U. S. S. Swatara, Port au Prince, Hayti, W.I			71	21.7	81	se.			1		0					sm'h		clear
U. S. S. Tennessee, Port au Prince, Hayti, W. I	30.10	764.5	71	21.7		e.	6	2.7			1			0.01	0.3			clear.
U.S. S. Vandalia, Port of Spain, Trinidad, W.I.	30.05	763.3	75	23.9	85	nne.			1		8		calm					fair.
S. S. Venetian, N. 44° 09′, W. 54° 18′*	29.86	758.4	39	3.9		wsw.			6		10		wsw.	light	light	high	wsw.	light rain.
S. S. Weser, N. 44° 28′. W. 46° 34′	30.07	763.8	48.2	9.0		wnw			5		0			2 h'r	2 h'r	long	wsw.	clear.
S. S. Westernland, Jersey City, N.J	30.20	767.1	11	—11.7		wnw.			5		10		wnw.	0	0			overcast.
S. S. City of Berlin, N. 50° 26′, W. 28° 06′	29.65	753.1	47	8.3		wnw.			4									fair.
U. S. Navy Yard, Portsmouth. N. H *.	29.99	761.7	10	—12.2	79	nw.	12	5.4			10		nw.	0	0			cloudy.
U. S. S. Kearsarge, Villefranche, France	30.24	768.1	62	16.7	77	s.			1		2							fair.
U. S. S. Lancaster, Villefranche, France	30.26	768 6	57	13.9	94	calm			0		0			0	0	sm'h		clear.
U. S. S New Hampshire, Newport, R. I	30.10	764 5	20	—6.7	56	wnw.			3		10		calm			sm'h	w.	cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.24	768.1	53	11.7	86	ene.			2		10		ene.			sm'h		cloudy.
U S. S. Shenandoah, N. 34° 48′, W. 48° 34′*	30.17	766.3	67	19.4	95	wnw.			3		8					sm'h	nw.	fair.
U. S. S. Trenton, N. 38° 56′, E. 0° 44′	30.37	771.4	63	17.2	89	sw.			2		8		sw.			sm'h		cloudy.
H M. S. Alexandra, Malta, Mediterranean	30.28	769.1	57	13.9	75	nw.			2		3	nw.						d. clouds.
H. M. S. Alecto, N. 5° 05′, W. 1° 13′	29.86	758 4	85	29.4		ssw.			1		10					3	ssw.	misty.
H. M. Dockyard, Bermuda, Atlantic	30.12	765.0				wsw.			2		6	wsw.						d. clouds.
H. M. S. Himalaya, N. 46° 25′, W. 7° 10′	29.95	760.7	59	15.0		sw.			2		9	wsw.				4	sse.	raining.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.31	769.9	59	15.0	82	ssw.			2		10							overcast.
H.P.M. S. Douro, N. 0° 31′, E. 9° 18′	29.85	758.3	83.3	28.5	78	ssw.			4		5		sw.	6 h'r	6 h'r	1	sw	d. clouds.
S. S. British Crown, N. 43° 45′, W. 56° 36′†	29.86	758.4	38	3 3		wsw.			6		6		wsw.	0	0	high	wsw.	squally.
S. S. Ohio, Liverpool, Eng *†	29.76	755.9	51	10.6	93	sw.			4		10		sw.	2 h'r	2 h'r			cloudy.
S. S. Pennsylvania, N. 50° 24′, W. 23° 54′			51	10.6	?	nw.			5		7		nw.	2 h'r	3 h'r	short	nw.	cloudy.
S. S. Devonia, N. 44° 39′, W. 53° 20′†	29.81	757.2	36	2.2		wsw.			6		8		wsw.	3 h'r	3 h'r	mod.	wsw.	cloudy.
S. S. Frisia, N. 48° 50′, W 34° 30′	29.78	756.4	54	12.2		wnw.			5		3		wnw.	0	0	long	nw.	fair.
S. S. Archimedes, N. 25° 36′ W. 84° 17′	30.16	766.1				ene.			3		8r		e;sw.	0	0	sm'h		clear?
S. S. Hevelius, N. 49° 00′, W. 6° 30′			60	15.6		wsw.			4		7		wsw.	12 h'r	12 h'r	mod.	wsw.	cloudy.
S. S. Archimede, N. 36° 44′, W. 42° 49′ †	30.31	769.9	74	23.3		nne.			1		4		sw.	0	0	r'gh	sw.	fair.
S. S. Erin, London, Eng			56	13.3		wnw.			6		4		wnw.	0	0			fine.
S. S. Helvetia, N. 46° 23′, W. 39° 18′	29.90	759.4	48	8.9	85	s.			4		8		sw.	0	0	mod.	ssw.	cloudy.
S. S. Waesland, Antwerp, Belgium	30.16	766.1	46	7.8		s.			3		10		s.					misty.
S. S. W. A Scholten, Rotterdam, Holland			46.8	8.2	100	sw.			6		10		sw.	0	0			squally.
S. S. Saxon, Philadelphia, Pa†	30.25	768 3	11	—11.7		w.			1		10							threatening.
S. S. Celtic, N. 45° 53′ W. 37° 13′ *†	29.90	759.4	52	11.1		n.			5		5		nw.	0	0	sm'h		fine.
S. S. Antonio Lopez, Cadiz, Spain	30.28	769.1	62.5	16.9	72	se.			3		3			0	0			fair.
Schr. Adda Doane, Savannah, Ga †	30.09	764.3				wsw.			2		6		wsw.	0	0			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Celestina, Cadiz, Spain *†	30.30	769.6	.....	.....	.....	ese.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
Bkt. C. S. Bushnell, off Cape Spartel, Marocco	.....	.....	.....	.....	.....	e.	.....	.....	0	.....	1	.....	e.	0	0	r'gh	nw.	
S. E. J. Spicer, Liverpool, Eng	29.76	755.9	51	10.6	93	sse.	.....	.....	5	.....	10	.....	sw.	8 h'r	8 h'r	.....	.....	light rain.
S. E. B. Sutton, N. 23° 30′, W. 42° 00′ *†	30.27	768.8	72	22.2	80	ne.	.....	.....	4	.....	7	.....	ne.	0	0	long	nnw	cloudy.
S Hedwig, N. 36° 40′, W. 10° 16′	30.24	768.2	62.4	16.9	98	ese.	.....	.....	3	.....	5	.....	var.	0	0	4	wnw.	
Bk. Heinrich & Tonio, N. 40° 07′, W 54° 30′ *†	30.19	766.8	57	13.9	69	w.	.....	.....	3	.....	8	.....	w.	4 h'r	4 h'r	long	wnw.	hazy.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.35	770.9	.....	.....	.....	nnw.	.....	.....	9	.....	10	.....	n.	9 h'r	9 hr	.....	.....	cloudy.
S. Henry, N. 38° 59′, W. 67° 00′*	29.95	760.7	42.8	6.0	.....	n.	.....	.....	5	.....	7 k	.....	.....	.....	.....	4	w.	cloudy.
Bg. John Wesley, N. 24° 02′, W. 80° 04′	.....	.....	.....	.....	.....	ne.	.....	.....	0	.....	10	.....	ne.	0	0	rg'h	ne.	cloudy.
Schr. John L. Thomas, Hobbles Cays, C. A†	30.00	762.0	76	24.4	95	se.	.....	.....	1	.....	2	.....	n.	4 h'r	4 h'r	.....	.....	fair.
Bg. L. & W. Armstrong, N. 27° 69′, W. 58° 20′†	30.16	766.1	.....	.....	.....	se.	.....	.....	2	.....	1	.....	se.	0	0	sm'h	nw.	fine.
S. S. Laurel, Key West, Fla†	30.11	764.8	62	16.7	.....	ne.	.....	.....	2	.....	7	.....	e.	sh'rs	sh'rs	.....	.....	fair.
Bkt. Levanter, N. 5° 38′, W. 29° 20′*	29.95	760.7	80	26.7	.....	ne.	.....	.....	3	.....	10	.....	ne.	0	0	long	ne.	cloudy.
S. S. Madrid, N. 36° 00′, E. 15° 40′†	30.29	769.4	56	13.3	69	n.	.....	.....	6	.....	4	.....	n.	0	0	r'gh	n.	fair.
S. S. P. de Satras egui, N. 20° 22′, W. 72° 03′	30.14	765.5	.....	.....	.....	calm	.....	.....	0	.....	3	.....	.....	0	0	sm'h	.....	clear.
Bg. Rising Sun, N. 39° 20′, W. 73° 20′†.	30.05	763.3	25	— 3.9	.....	nnw.	.....	.....	5	.....	10	.....	sw.	snow	snow	mod.	nnw.	snowing.
Bk. Rosalie, N. 22° 27′, W. 42° 15′	.....	.....	.....	.....	.....	ne.	.....	.....	5	.....	2	.....	ne.	1½h'r	1½h'r	long	n.	clear.
S. Salisbury, N. 37° 09′, E. 3° 02′	30.31	769.8	64.4	18.0	90	s.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Tuck Sing, N. 35° 30′, W 72° 00′ *†	30.04	763.0	.....	.....	.....	wsw.	.....	.....	4	.....	5	.....	w.	0	0	mod.	v	fair.
S. S. City of Alexandria, Havana, Cuba*†	30.05	763.3	67	19.4	.....	ene.	.....	.....	2	.....	.....	.....	.....	.....	.....	mod.	ne.	
District No. 2—South Atlantic.																		
U. S. S. Nipsic, S. 35° 09′, W. 56° 45′ *	29.91	759.7	70	21.1	75	n.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Pinta, Maranham, Brazil	29.95	760.7	80	26.7	87	ne.	.....	.....	2	.....	8	.....	sse.	.....	.....	.....	.....	cloudy.
H. M. S. Amethyst, Montevideo, Uruguay	29.84	757.9	70	21.1	80	n.	.....	.....	2-4	.....	1	sw.	.....	.....	.....	.....	.....	misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.88	758.9	74	23.3	.....	sse.	.....	.....	3	.....	3	ssw.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Comus, S. 7° 00′, W. 22° 00′	29.96	761.0	77	25.0	82	ese.	.....	.....	4	.....	6	.....	.....	.....	.....	3	ese.	d. clouds.
H. M. S. Opal, off Loango, Guinea	29.83	757.7	78	25.6	91	s.	.....	.....	2	.....	4	ssw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tyne, S. 31° 40′, E. 15° 03′	.....	.....	68	20.0	95	ssw.	.....	.....	4	.....	3	s.	.....	.....	.....	2	s.	blue sky.
H. P. M. S. Tejo, S. 5° 37′, E. 12° 05′	30.07	763.7	81.5	27.5	88	ssw.	.....	.....	3	.....	0	.....	.....	0	0	3	w.	blue sky.
S. S. Sirius, Bahia, Brazil	30.00	762.0	.....	.....	.....	se.	.....	.....	4	.....	2	.....	se.	2 h'r	2 h'r	.....	.....	clear.
S. S. Strassburg, S. 13° 47′, W. 35° 31′	30.05	763.3	81.0	27.2	57	e.	.....	.....	4	.....	4	.....	s.	0	0	3	e.	clear.
Bk. Chas. Stewart, S. 11° 40′, W. 27° 40′ *†	30.08	764.0	80	26.7	.....	e.	.....	.....	6	.....	2	.....	e.	0	0	mod	ne.	clear.
Bg. Daphne, S 0° 56′, W. 35° 00′*†	29.88	758.9	79	26.1	86	se.	.....	.....	3	.....	3	.....	ese.	4 h'r	4 h'r	sm'h	se.	clear.
Bk. Horace Scudder, S. 9° 13′, W 7° 00′*†	30.05	763.3	78	25.6	.....	se.	.....	.....	4	.....	9	.....	sse.	0	0	light	se.	cloudy.
S. Parker M. Whitmore, S. 24° 06′, W. 21° 45′*†	30.05	763.3	78	25.6	.....	nnw.	.....	.....	2	.....	3	.....	nnw.	0	0	sm'h	.....	clear.
S. David Stewart, Pernambuco, Brazil †	29.85	758.2	88	31.1	.....	ese.	.....	.....	4	.....	2	.....	se.	0	0	.....	.....	
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.17?	766.3?	44.5	6.9	48	n	.....	.....	6	.....	8	.....	w.	1.89	48.0	.....	.....	cloudy.
U. S. S. Adams, Sitka, Alaska†	29.24	742.7	36	2.2	70	wnw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Alert, N. 20° 36′, W. 157° 42′	30.02	762.5	73	22.8	76	e.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Essex, Canton, China	30.23	767.8	66	18.9	79	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. S. Juniata, Shanghai, China	30.41	772.4	40	4.4	82	nne.	.....	.....	1	.....	2	.....	calm	0	0	.....	.....	fair.
U. S. S. Monocacy, Shanghai, China	30.44	773.2	40	4.4	73	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Ranger, N. 7° 20′, W. 81° 20′	29.98	761.5	79	26.1	82	nw.	.....	.....	3	.....	2	.....	.....	0	0	.....	.....	clear.
U. S. S. Richmond, Shanghai, China	30.43	772.9	40	4.4	91	ene.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	hazy.
H. M. S. Audacious, Hong Kong, China	30.21	767.3	63	17.2	83	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, off Amoy, China	30.14	765.5	62	16.7	77	nnw.	.....	.....	3	.....	9	calm	.....	.....	.....	3	s.	d. clouds.
H. M. S. Champion, Side Saddle Island, China	30.40	772.1	47	8.3	92	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.91	759.7	82.7	28.2	65	n.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. P. M. S. Tamega, acao China	30.26	768.6	68.0	20.0	81	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	blue sky.
S. S. Oceanic, N. 32° 11′, E. 171° 29′	29.98	761.5	65	18.3	78	s.	.....	.....	6	.....	7	.....	w.	3 h'r	3 h'r	4	nw.	cloudy.
S. S. Oregon, Portland, Oregon	.....	.....	46	7.8	92	calm	.....	.....	0	.....	5	.....	ssw.	.....	.....	.....	.....	fair
S. S. Alameda, N. 28° 51′, W. 140° 37′ †	30.04	763.0	66	18.9	79	nw.	.....	.....	3	.....	7	.....	ne.	0	0	mod.	nw.	cloudy.
S. S. Ancon, San Francisco, Cal.†	30.06	763.5	50	10.0	79	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Chester, Eureka, Cal†	29.86	758.4	55	12.8	68	se.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	.....	squally.
S. S. Orizaba, N. 37° 00′, W. 119°? 48′†	29.96	761.0	60	15.6	88	setosw	.....	.....	5	.....	10	.....	sw.	4 h'r	4 h'r	long	sw.	covered.
S. S. Queen of the Pacific, Seattle, Wash. Ter†	29.79	756.7	49	9.4	93	calm	.....	.....	0	.....	10	.....	s.	12 h'r	12 h'r	.....	.....	cloudy.
S. S State of California, San Francisco, Cal. †	30.09	764.3	45	7.2	?	se.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. City of Pekin, N. 33° 34′, E. 136° 20′†	30.12	765.0	54	12.2	61	n.	.....	.....	6.	.....	.....	.....	.....	.....	.....	mod	n.	clear.
S. S. City of Tokio, N. 39° 45′, W 139° 03′	.....	.....	58	14.4	76	ssw	.....	.....	6	.....	9	.....	sw.	8 h'r	8 h'r	rg'h	sw.	squally.
S. S. Colima, Acajutla, San Salvador†	30.01	762.2	70	21.1	85	ene.	.....	.....	2	.....	2	.....	calm	0	0	mod.	s.	clear.
S. S. Granada, N. 23° 09′, W. 110° 25′†	30.15	765.3	68	20.0	74	nne.	.....	.....	3	.....	0	.....	.....	0	0	light	nne.	clear.
S. S. Radnorshire, Hong Kong, China	.....	.....	.....	.....	.....	nne.	.....	.....	5	.....	5	.....	ene.	0	0	light	ene.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, Valparaiso, Chili	30.01	762.2	63	17.2	100	calm	.....	.....	0	.....	2	.....	.....	.....	.....	sm'h	s;w.	clear.
U. S. S. Iroquois, S. 39° 23′, W 79° 43′	30.14	765.5	59	15.0	70	s.	.....	.....	3	.....	2	.....	sw.	.....	.....	long	sw.	clear.
U. S. S. Lackawanna, Valparaiso, Chili	30.03	762.7	67	19.4	79	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	66	18.9	89	se.	.....	.....	1	.....	10	.....	se.	.....	.....	sm'h	.....	cloudy.
U. S. S. Wachusetts, Callao, Peru *†	30.04	763.0	66	18.9	94	se.	.....	.....	1	.....	10	.....	calm	.....	.....	sm'h	.....	overcast.
H. M. S. Diamond, S. 33° 52′, E. 151° 14′	29.86	758.4	73	22.8	81	var.	.....	.....	1	.....	3	s.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.88	758.9	61	16.1	88	ne.	.....	.....	1	.....	8	.....	.....	.....	.....	sm'h	.....	showery.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.97	761.2	63	17.2	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	2	nnw.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.38	746.2	61	16.1	?	nw.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.08	738.6	44.7	7.1	76	wnw.	.....	.....	3-6	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Australia, S. 3° 50′, W. 168 27′	30.01	762.2	80	26.7	.....	ese.	.....	.....	3	.....	6	.....	se.	0	0	mod.	ese.	hazy.
S. S. City of Sydney, S. 34° 20′, E. 164° 02′*†	30.04	763.0	65	18.3	84	calm	.....	.....	0	.....	0	.....	.....	.....	.....	light	ne.	clear.
Bk. Alpheus Marshal, S. 7° 57′, E. 170° 28′ *†	29.73	755.1	81	27.2	91	sw.	.....	.....	1	.....	9	.....	ese.	1 h'r	1 h'r	light	se.	cloudy.
S. S. George S. Homer, S. 4° 48′, W. 121° 56′*†	30.03	762.7	.....	.....	.....	e.	.....	.....	4	.....	5	.....	ese.	0	0	mod	var.	fair.
Bk. Godeffroy, S. 49° 17′, W. 84° 56′	29.66	753.4	.....	.....	.....	wsw.	.....	.....	6	.....	0	.....	wsw.	24 h'r	24 h'r	r'gh	wsw.	squally.
S. St. Francis, S. 48° 10′, W. 85° 00′*†	30.00	762.0	50	10.0	72	w.	.....	.....	7	.....	5	.....	wsw.	2 h'r	2 h'r	h'vy	wnw.	squally.
S. St. David, S. 54° 47′, W. 82° 03′ *†	29.53	750.0	55	12.8	81	sw.	.....	.....	0	.....	8	.....	sw	3 h'r	3 h'r	r'gh	sw.	squally.
S. S. Grecian, N. 1° 53′, W. 125° 27′ †	30.03	762.7	76	24.4	86	ese.	.....	.....	5	.....	3	.....	ese.	0	0	sm'h	.....	clear.
S Henry Failing, S. 10° 05′, W. 124° 04′ *†	30.05	763.3	78	25.6	86	ese.	.....	.....	4	.....	3	.....	e.	0	0	sm'h	e.	clear.
H. M. S. Espiegle, S. 36° 50′, E. 176° 15′	29.89	759.2	59	15.0	88	sw.	.....	.....	2	.....	1?	.....	.....	.....	.....	.....	.....	raining.?
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, S. 6° 56′, E. 39° 41′	29.85	758.2	79	26.1	91	se.	11	4.9	.....	.....	8	.....	se.	0.15	3.8	sm'h	.....	fair.
U. S. S. Pensacola, S. 15° 06′, E. 76° 16′†	29.82	757.4	81	27.2	83	ene.	.....	.....	3	.....	8	.....	e.	0	0	long	e.	cloudy.
H. M. S. Coquette, N. 15° 36′, E. 39° 21′	29.96	761.0	82	27.8	75	e.	.....	.....	1	.....	1	.....	.....	.....	.....	sm'h	.....	blue sky.
H. M. S. Euryalus, Suakin, Egypt	29.89	759.2	78	25.6	86	ne.	.....	.....	2	.....	3	ne.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Orontes, N. 7° 05′, E. 82° 10′	29.98	761.5	80	26.7	100	nne.	.....	.....	2	.....	2	ne.	.....	.....	.....	1	nne.	d. clouds.
H. M. S. Tourmaline, S. 16° 52′, E. 50° 53′	29.96	761.0	83	28.3	83	var.	.....	.....	2	.....	.....	.....	.....	.....	.....	2	e.	showery.
S. S. Galatia, N. 15° 47′, E. 41° 30′ †	29.94	760.5	79	26.1	91	se.	.....	.....	5	.....	0	.....	.....	.....	.....	rg'h	se.	clear.
S. S. Benalder, N. 6° —′, E. 85° —′*	29.96	761.0	80	26.7	91	ene.	.....	.....	4	.....	3	.....	ene.	0	0	cross	var.	clear.
S. S. Port Phillip, N. 20° 01′, E. 39° 17′*	29.93	760.2	85	29.4	.....	sse.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	se.	cloudy.
S. S. Carondelet, S. 30° 33′, E. 109° 25′*†	30.12	765.0	.....	.....	.....	sse.	.....	.....	2	.....	8	.....	se.	0	0	sm'h	sse.	cloudy.
S. S. Lepanto, N. 17° 11′, E. 61° 58′	29.99	761.7	76	24.4	.....	ene.	.....	.....	3	.....	2	.....	ene.	0	0	sm'h	ene.	clear.

International Chart I. January 5, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 6, 1884,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.32	770.1	65.8	18.8	73	se.			1		0			0	0	clear	Roxiere.
Algiers			30.38	771.6	62.6	17.0	43	nw.			1		0			0	0	clear	Aubert.
La Galle			30.36	771.1	67.6	19.8	54	n.			1		2			0	0	fair	Fonfrède.
Tunis			30.40	772.2	58.3	14.6	78	nw.			2		4			0	0	cloudy	Delord.
Tebessa					46.8	8.2	98	n.			3		1			0	0	very fair	Hans.
Geriville					61.2	16.2	14	n.			1		2			0	0	fair	Forfert.
Laghouat			30.34	770.5	65.1	18.4	28	calm			0		0			0	0	clear	Abraham.
Biskra			30.36	771.2	60.1	15.6	40	n.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.85	758.2	64.4	18.0	80	ssw.	7	3.1			2 ks		wsw.	0	0	d. clouds	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.29	744.0	29.48	748.8	65	18.3	42	nw.			3		8		nw.	0.16	4.1	cloudy	Com. I. Short, R.N.
Melbourne, Victoria	29.62	752.3	29.72	754.9	62.4	16.9	83	sse.	7	3.1			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.65	753.0	30.24	768.0	26.6	— 3.0	76	sw.			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.21	741.9	30.02	762.5	25.9	— 3.4	95	ene.	0	0			10			0.091	2.3		Dr. Wierzbiski
Eperies	29.31	744.4	30.26	768.6	21.2	— 6.0	90	se.			4		10			0.102	2.6		Julius Mikolik.
Gratz	28.87	733.3	30.19	766.8	32.2	0.1	80	e.			1		10			0	0		Andreas Rospini.
Hermannstadt	28.86	733.0	30.42	772.6	19.8	— 6.8	92	se.			2		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.66	727.9	30.06	763.6	31.5	— 0.3	98	calm			0		10			0.138	3.5	foggy	The Staff.
Lemberg	29.15	740.5	30.22	767.7	19.9	— 6.7	75	s.			2		4			0.071	1.8		Dr. T. Stanecki.
Pola	30.14	765.5	30.25	768.4	47.5	8.6	78	wsw.			1		3			0	0		I. R. Hydrographic Office
Szathmar	29.84	757.8	30.35	770.8	18.5	— 7.5	92	s.			4		1			0.083	2.1		Joseph Midlinszky, S. J
Szegedin	29.98	761.4	30.28	769.0	28.6	— 1.9		s.			3		4			0	0		Karl Stancel.
Trieste	30.19	766.8	30.29	769.3	48.9	9.4	65	s.			1		10			0.173	4.4		Royal Academy.
Vienna	29.37	746.1	30.13	765.2	31.1	— 0.5	90	sse.			2		10			0.165	4.2	rain & sleet.	I. R. Central Met. Obs'y.
Belgian.																			
Arlon					45.3	7.4	100	sw.			2		4			0.532	13.5		
Brussels	29.72	754.8	29.92	760.0	49.3	9.6	83	sw.			5		10		wsw.	0.232	5.9	light rain	
Furnes																0.240	6.1		
Maeseyck	29.78	756.5	29.91	759.7	49.5	9.7	82	w.			2		10			0.256	6.5		
British.																			
Aberdeen	29.16	740.7	29.26	743.2	46.9	8.3	74	wsw.	21	9.4			6			0.005	0.1	d. clouds	W. Boswell.
Bidston, Liverpool Obs'y			29.67	753.6	45.1	7.3	?	wsw.	6	2.7			10					overcast	John Hartnup.
Bolton, Sharples	29.10	739.1	29.63	752.6	40.1	4.5	93	sw.	21	9.4			10					raining	Thomas Mackereth.
Bradford, Yorkshire																0.20	5.1		McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.02	762.5	30.05	763.3	81	27.2	63	ne.			2		7					gloomy	Corp'l W. I. Cull, A.H.C.
Cardington	29.68	753.9	29.80	756.9	49.4	9.7	89	w.			1.0		5					d. clouds	John McLaren.
Chatham, School M. E.	29.65	753.1	29.83	757.7	50.3	10.2	84	sw.			2		8			blank	blank	misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.74	755.4	29.96	761.0	50.9	10.5	72	w.			5		6					d. clouds	The Staff.
Fort Napier, Natal	27.55	699.8	29.86	758.4	87.5	30.8	44	ne.			1		10					overcast	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	88	31.1	66	se.			1		0?					d. clouds?	J. W. Smith.
Galway, Queen's College	29.68	753.9	29.72	754.9	47	8.3	85	w.			3		4			0.14	3.6	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.20	767.1	30.26	768.6	59.0	15.0	95	ne.			3		10					gloomy	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	29.64	752.8	29.81	757.2	51.0	10.6	84	wsw.			5		8					d. clouds	The Staff.
Guernsey	29.72	751.9	30.03	762.7	51.0	10.6	94	wsw.			5		8					showery	A. Collenette, F.R.M.S.
Kew, Observatory	29.79	756.7	29.82	757.4	51.0	10.6	76	w.	22	9.8			7					d. clouds	The Staff.
Leicester, Museum	29.44	747.8	29.70	754.4	50.0	10.0	82	sw.			1		5					d. clouds	J. C. Smith.
Malta, Mediterranean	30.29	769.4	30.37	771.4	54.2	12.3	80	nw.			2					0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.14	765.5	69.5	20.8	61	n.			2		10					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.58	751.3	29.81	757.2	50.0	10.0	87	sw.			6		7					d. clouds	The Staff.
Plymouth	29.87	758.7	29.94	760.5	51.2	10.7	84	wsw.			4		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.08	738.6	29.18	741.2	45.8	7.7	94						10					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.29	769.4	30.36	771.1	36.0	2.2	70	ne.			2		8					d. clouds	W. H. Lyne.
Sheffield	29.37	746.0	29.65	753.1	50.1	10.1	79	sw.			3		4			0.04	1.0	d. clouds	W. F. Cooper.
Silloth Rectory	29.51	749.5	29.54	750.3	46.0	7.8	92	w.			4		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.64	752.8	45.8	7.7	94	wsw.	25	11.2			10					drizzling	Rev. S. J. Perry.
Strathfield Turgiss					50.8	10.4	84	w.			2.5		5					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.91	759.7	29.94	760.5	48.4	9.1	74	w.	24	10.7			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.94	760.5	30.33	770.4	57.2	14.0	57	nw.	37	16.5		0	0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.81	757.2	29.85	758.2	—12.0	—24.4		sw.	5	2.2		0	4 s			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.73	755.1	29.78	756.4	4	—15.6	92	nw.	5	2.2			10 n			0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.81	757.2	29.88	758.9	—17	—27.2	100	w.	2	0.9		2 k	8 s	w.	w.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.84	757.9	30.05	763.3	—17.5	—27.5	100	w.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.77	756.1	29.83	757.7	—11.0	—23.9		w.			2	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec	29.85	758.2	29.87	758.7	— 9	—22.8	74	nw.	25	11.2		2 k	5 s	nw.	nw.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.68	753.9	30.71	780.6	—33	—36.1	92	nw.	3	1.3		c	0			0	0	clear	James Stewart.
Fredericton, N. B.	29.85	758.2	29.93	760.2	—12.9	—24.9	100	w.	1	0.4		0	s			0	0	d. clouds	Prof. Thos. Harrison.
Grand Manan, N. B.	29.81	757.2	29.87	758.7	1	—17.2	100	n.	20	8.9		0	8 ks		n.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	29.03	737.3	30.27	768.8	0.8	—17.3	94	w.	10	4.5		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.60	751.8	29.74	755.4	5	—15.0	100	n.	8	3.6			10 n			0.020	0.5	light snow	A. Allison.
Hamilton, Ontario	29.78	756.4	30.23	767.8	2.9	—16.2	85	nw.			2	4 k	0	nw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.69	754.1	30.07	763.8	— 7	—21.7	87	n.	2	0.9		8 c	0			0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.45	748.0	29.49	749.0	11.0	—11.7	84	n.	7	3.1		0?	0?			0.300	7.6	snowing?	O. H. Rigby.
London, Ontario	29.29	744.0	30.31	769.9	0.0	—17.8	94	sw.			2	0	0			0.20	5.1	blue sky	E. B. Reed.
Medicine Hat, N. W. T.	27.60	701.0	30.11	764.8	— 2	—18.9	95	nw.	1	0.4			10 n			0.06	1.5	cloudy	John Ewart.
Minnedosa, N. W. T	28.38	720.8	30.74	780.8	—34	—36.7	100	nw.	2	0.9		0	0			0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.83	757.7	30.07	763.8	—12	—24.4	100	w.	12	5.4		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.85	758.2	30.12	765.0	—30.7	—34.8	100	w.					10 s			0.01	0.3	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.38	746.2	30.21	767.3	— 2.1	—18.9	60	w.	3	1.3		hz	8 ks		w.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.34	745.2	30.18	766.6	— 2.8	—19.3	87	w.			1	0	6 k			0	0	fine	Wm. O'Connor, M.A.
Port Arthur	29.66	753.4	30.49	774.4	—16	—26.7	69	s.	7	3.1		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.44	747.8	30.22	767.6	5	—15.0	100	w.	14	6.3		0	0			0	0	clear	G. Morgan.
Port Stanley, Ontario	29.58	751.3	30.31	769.9	1	—17.2	91	w.	20	8.9		0	0			0	0	clear	M. Payne.
Qu Appelle, N. W. T	27.92	709.2	30.62	777.7	—24	—31.1		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.57	751.1	29.99	761.7	—20	—28.9	51	sw.	12	5.4		2 cs	0	w.		0	0	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	29.69	754.1	30.24	768.1	—29	—33.9	100	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B.	29.82	757.4	29.87	758.7	— 7	—21.7	92	nw.	3	1.3		0	0			0	0	clear	
St. John, N. B	29.72	754.9	29.88	758.9	— 3.0	—19.4	66	nw.	8	3.6		1 ck	2 s	sw.		0	0	fair	G. Hutchinson.
Saint John's, N. F.																			J. Higgins.
St. Pierre, N. F.			29.69	754.0	25.2	— 3.8		se.			4		10 s			0.34	8.6	cloudy	The Commandant.
Saugeen, Ontario*	29.36	745.7	30.15	765.8	8	—13.3	96	se.	8	3.6									

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario																			W. Mc Bride, M. A.
Sydney, C. B*	29.60	751.8	29.67	753.6	15	— 9.4	83	n.	4	1.8			10 n			0.01	0.3	heavy snow	T. C. Hill, C. E.
Toronto, Ontario*	29.75	755.6	30.18	766.6	6	—14.4	87	w.	6	2.7			10 ks		w.	inap.	inap.	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.09	738.9	30.28	769.1	2.8	—16.2	97	sw.	20	8.9		0	0			0	0	blue sky	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.70	754 4	29.78	756.4	11	—11.7	70	ne.	8	3.6			10 k		w.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.87	758.7	29.90	759 4	77.0	25.0	91	ssw.				0	6 k			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.89	759.2			71.2	21.8	50	sw.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.84	707.1			87	30.6	49									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	29.88	758.9	29.96	760.9	62.6	17.0	90	n.			4	10	0					cloudy	Samuel Redolez.
Iquique	29.97	761.3	30.00	762 0	73.4	23.0	59	sw.			2							foggy	Rafael Moreno.
Niebla	29.71	754.7	29.82	757.4	54.0	12.2	76	e.			2	0	4 c		sw.	0	0	cloudy	Federico Köhling.
Punta Caldera	29.89	759.2	29.98	761.4	66.2	19.0	86	sw.			1	8 n		sw.	sw.			fair	Manuel Tobar.
Punta Corona	30.00	762.0	30.19	766.7				calm			0	10	0			0.087	2.2	cloudy	Francisco Alvarado.
Valparaiso	29.79	756.6	29.93	760.1	65.3	18.5	76	s.				0	0					clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.39	771.8	30.41	772.4	37.0	2.8	86	nne.	2.7	1.2			3 k		nw.	0	0		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.48	748.7	29.52	749.9	38.1	3.4	100	sw.	13	6			10					foggy	Oversergent Fischer.
Faröe	29.48	748.7	29.50	749.2	40.6	4.8	98	wsw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.09	738.9	29.13	740.0	19.4	— 7.0	86	sse.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.33	745.0	29.37	746 1	34.7	1.5	89	se.			4		5						A. O. Thorlacius.
Thorshavn	29.15	740.3	29.17	740.9	43.3	6.3	94	n.	11	5			8						Overloerer Bergh.
Vestervig	29.29	744 0	29.39	746.4	39.6	4.2	90	sw.			6		10						Loerer Oesterhol.
Egyptian.																			
Cairo	29.90	759 5			59.0	15		sw.	6.0	2.7		0	4 ks			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.72	754.9	30.37	771.5	57.6	14.2	89	ssw.			1		n		nw.	0.067	1.7		M. Labroue, Director.
Alençon, Normal School	29.56	750 8	30.11	764 7	49.3	9.6	92	ssw.			1		10 k		nne.	0.047	1.2	covered	M. Nicot, Director.
Arras, Normal School			30.04	763.0	50.5	10.3	81	sw.			2		5		sw.	0.201	5.1	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.26	768.5	30.34	770.5	51.1	10.6	84	n.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.59	751.6	30.15	765.9	51.3	10.7	74	nw.			1		8		nw.	0.138	3.5	very cloudy	M. Saillard, Director
Beauvais, Normal School	29.79	756.6	30.00	763.5	50.9	10.5	72	wsw.			2		8		wsw.	0.177	4.5	very cloudy	M. Frère Eugène Marlé.
Besançon, Normal School	29.29	744 0	30.15	765.8	50.4	10.2	96	sw.			2		n		n.	0.12	3.		M. Gobin, Director.
Bordeaux, Observatory	30.00	762.1	30.27	768.8	57.0	13.9	84	w.			1		10		wsw.	0.016	0.4	covered	M. Rayet, Director.
Bourges, Normal School	29.63	752.6	30.11	764.9	51.4	10.8	90	w.			1		kn		w.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.89	759.2	30.13	765.3	54.3	12.4	93	ssw.			2		6		ssw.	0.709	18.0		M. de Kermarée, Dir.
Caen, Normal School	29.95	760.7	30.02	762 6	52.5	11.4	97	sw.			2		10			0	0	covered	M. Berson, Director
Châlons-sur-Marne, N. Sch'	29.75	755.7	30.08	763.9	51.8	11.0	75	s.			2		5		sw.	0.165	4.2	cloudy	M. Jadot, Director.
Charleville, Normal School	29.51	749.6	30.03	762.8	48.9	9.4	81	w.			1		kn		w.	0.472	12.0		M. Noël, Director.
Clermont-Ferrand Obs'y	28.84	732.5	30.19	766.9	56.5	13.6	68	wsw.			1		10		w.			raining	M. Allnard, Director.
Cluny, Normal School	29.38	746.2	30.29	769.4	54.3	12.4	79	sw.			1		10		w.	0.102	2.6		M. de Villemontée, Dir.
Commercy, Normal School	29.24	742.8	30.11	764.9	49.3	9.6	79	w.			4		5 nk	w.	w.	0.047	1.2	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.71	703 9	30.33	770.4	41.4	5.2	66	e.			1		9 kn		s.	0	0		M. Jarach, Director.
Gréasque, du Rhone	29.21	741.9	30.37	771 3	47.8	8.8	94	nw.			2		10		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.54	750.4	30.34	770.7	39.9	4.4	93	e.			1		10			0.236	6.0	covered	M. Ablard, Director.
Guéret, Normal School	28.60	726.5	30.23	767.9	40.3	4.6	93	wsw.			1		5 n		nw.	0.106	2.7	cloudy	M. Delorme, Dir.
Lamballe, Normal School																			M. Polipre, Director
Lescar, Normal School	29.73	755.2	30.30	769.7	56.8	13.8	84	ne.			1		10 n	sw.		0.016	0.4	raining	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	764 5	30.20	767.1	55.4	13.0	77	sw.			2		8	s.	sw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.17	741.0	30.26	768.5	48.0	8.9	92	s.			2		10 n			0.091	2.3	covered	M. André, Director.
Mans, Normal School	29.85	758.3	30.17	766.3	51.4	10.8		w.			6		kn		w.	0.150	3.8		M. Richard, Director.
Marseille, Observatory	30.03	762.8	30.30	769.7	51.8	11.0	82	nw.			1		10		nw.	0	0		M. Stephan, Director.
Montlouis	25 06	636.6	29.91	759.6	48.7	9.3	39	sw.	11.2	5.0			6	sw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.17	766 3	30.28	769.1	54.0	12.2	98	n.			2		5		ese.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.33	745.0	30.12	765 1	49.3	9.6	92	wsw.			1		kn			0.134	3.4		M. Hasse, Director.
Nantes, Observatory	30.05	763.2	30.21	767.4	52.7	11.5	91	wsw.			1-2		10 n; kn		wsw.	0.154	3.9		M. Larocque, Director.
Perpignan, Observatory	30.24	768.1	30.35	771 0	53.1	11.7	86	s.	3.8	1.7			7		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.44	544 5			28.4	— 2.0		w.			1		10		w.	0.031	0.8	covered	M. Vaussenat, Director.
Privas, Normal School	29.21	741.9	30.31	769.8	46.8	8.2	89	sw.			1			sw.	sw.	0	0	foggy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.28	642.1			39.0	3.9	100	w.			6		10			0.079	2.0		M. Allnard.
Rochefort, Naval Obs'y	30.22	767.5	30.25	768.3	56.8	13.8	89	sw.			2		2		sw.	0.08	2.	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.98	761.5	30.20	767.0	54.7	12.6	90	sw.			1		5		sw.	0	0	cloudy	M. Bretier, Director.
Rodez, Normal School	28.16	715.3	30.58	776.8	49.6	9.8		nw.			2		10		ne.	0.102	2.6	light rain	M. Seger, Director.
Rouen, Normal School	30.01	762.2	30.06	763.4	51.8	11	89	sw.			1		5	sw.		0.134	3.4	cloudy	M. Moullot, Dir.
St. Lô, Normal School			29.90	759.4	54.0	12.2	78	w.			1-2		n	nw.	nw.	0	0		M. Delaplanche, Dir.
Saint Maur, Observatory	29.94	760.5	30.11	764.7	51.3	10.7	69	sw.			2		8		w.	0.138	3.5	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.61	752 1	30.34	770 6	56.3	13.5	80	sw.			2		10	nw.		0.039	1.0	covered	M. Baillaud, Director.
Tours	30.00	762.1	30.18	766.6	52.9	11.6	90	sw.			1		8	wsw.	sw.	0.043	1.1	rainy	M. de Tastes.
Versailles, Observatory	29.61	752.0	30.10	764.5	50.4	10.2	72	w.			4		0			0.094	2.4	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.17	766.2	30.32	770.0	61.0	16.1	75	s.	2.0	0.9			9 k		wnw.	0.024	0.6		M. Cartier, Director.
German.																			
Ansbach	28.55	725.1	30.02	762.5	46.2	7.9	88	w.			4		9	w.		0.177	4.5		Prof. Jnedt.
Bamberg	29.10	739.0	29.94	760 4	46.0	7.8	70	w.			3		8 ks		w.	0.098	2.5		Prof. Dr. Hoh.
Berlin	29.61	752.1	29.76	755.9	37.8	3.2	97	sw.			2		10			0.142	3.6		Meteorological Institute
Breslau	29.35	745.4	29.87	758.8	34.2	1.2	78	s.			4		10			0	0	foggy	Royal University Obs'y
Carlsruhe	29.60	751.8	30.06	763.5	52.2	11.2	83	sw.			6		9	sw.		0.177	4.5		Albert Senz.
Cassel	29.13	739.9	29.84	758 0	47.1	8.4	77	s.			4		10	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.60	751.9	29.98	761.4	49.5	9.7	89	sw.			1		7			0.465	11.8		Physical Society.
Friedrichshafen	28.69	728.6	30.14	765.6	42.8	6.0	91	sw.			1		10	w.		0.102	2.6	light rain	Wilhelm, Chief Tel.
Hamburg	29.61	752.2	29.71	754 5	41.0	5.0	95	wsw.			4		10			0.110	2.8	rain & fog	E. Preller.
Kiel	29.61	752 1	29.63	752.5	41.5	5.3	97	sw.			3		10			0.173	4.4		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.41	747.1	29.85	758.1	39.7	4.3	93	sw.			2		10			0.386	9.8		H. Leppig, Asst.
Magdeburg	29.57	751.0	29.76	755.9	43.3	6.3	91	w.			3		10			0.240	6.1	raining	Weather Observatory.
Memel	29.76	755.9	29.81	757.1	24.8	— 4.0	87	s.			4		10 s					snowing	Issermann.
Munich	28.21	716.4	30.07	763.8	46.2	7.9	83	nw.			6		8	sw.		0.024	0.6		Central Station.
Neufahrwasser	29.76	755.8	29.77	756.2	27.5	— 2.5	89	s.			4		10			0.083	2.1		A. Lothes.
Neustadt, Palatinate	29.46	748.3	29.98	761.6	52.5	11.4	65	w.			2		6	w.		0.217	5.5		Dicknether.
Stuttgart	29.09	738.8	29.99	761.7	50.9	10.5	71	w.			1		3	w.		0.134	3.4		Prof. Dr. Schoder.
Wustrow	29.58	751.2	29.60	751.8	38.7	3.7	97	sw.			4		10 s			0.094	2.4		Profs. Brandes & Reimer
Greek.																			
Athens	29.94	760 5	30.34	770.7	42.1	5.6		ne.			4.0	0	6 k			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurracheë	30.10	764.6	30.15	765.9	73.9	23.3	63	sw.	11.0	4.9			2			0	0	d. clouds	
Deesa	29.66	753.2	30.13	765.3	81.8	27 7	25	nnw.	3.0	1.3			4	wnw.		0	0	d. clouds	
Bombay	30.02	762 5	30.06	763.5	81.6	27.6	59	nw.	8.0	3.6			0			0	0	blue sky	
Poona, Yarrowda	28.22	716.8	30.09	764.2	79.1	26.2	32	e.	7.0	3.1			2			0	0	d. clouds	
Belgaum	27.49	698.2	30.04	762.9	77.3	25.2	43	ene.	4.0	1.8			4	w.	e.	0	0	d. clouds	
Lahore	29.40	746.8	30.18	766.5	63.6	17.6	53	calm	0	0			0			0	0	blue sky	
Roorkee	29.16	740.6	30.09	764.2	67.7	19.8	42	w.	1.5	0.7			0			0	0	blue sky	
Agra	29.57	751.0	30.15	765.8	69.2	20.7	44	w.					0			0	0	blue sky	
Nagpur	29.05	738.0	30.12	765.0	74.5	23.6	35	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.77	730.6	30.17	766.2	67.9	19.9	46	calm	0.7	0.3			0			0	0	blue sky	
Lucknow	29.74	755.5	30.14	765.5	63.3	17.4	65	calm	0	0			0			0	0	blue sky	
Allahabad	29.82	757.3	30.14	765.6	63.7	17.6	73	calm	0	0			2		sw.	0	0	d. clouds	
Patna	29.93	760 3	30.13	765.2	66.6	19.2	50	w.	2.8	1.2			0			0	0	blue sky	
Hazaribagh	28.05	712.6	30.14	765.6	62.5	16.9	43	nw.	4.0	1.8			0			0	0	blue sky	
Cuttack	30.02	762.6	30.11	764.8	72.0	22.2	66	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	30.08	764.0	30 10	764.6	62.5	16.9	69	nw.	1.0	0.4			0			0	0	blue sky	
Dhubri	29.97	761.2	30.09	764 4	65.7	18.7	59	calm	0	0			0			0	0	blue sky	
Chittagong	30.00	761.9	30.09	764.3	67.6	19.8	74	calm	2.4	1.1			0			0	0	blue sky	
Sibsagar	29.77	756.2	30.13	765.2	58.0	14.4	83	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.68	728.5	30.16	766.1	72.0	22.2	38	nw.	3.8	1.7			4		nw.	0	0	d. clouds	
Zanzibar	29.86	758.5	29.89	759.1	83.0	28.3	74	calm	1.8	0.8			5		n.	ese.	0.04	1.0	d. clouds
Bellary	28.53	724 6			81.3	27.4	46	e.	4	1.8		4 ck	0				0	0	d. clouds
Trichinopoly	29.77	756.1			75.0	23.9	94	ne.	0.2	0.04		5	5				0.23	5.8	overcast
ITALIAN.																			
Udine	29.83	757.7	30.26	768 5	43.2	6.2	67	calm	0	0			10				0	0	
Milan	29.73	755.1	30.27	768.9	39.2	4.0	87	w.	2.5	1.1			10		w.		0	0	
Padua	30.13	765.3	30.24	768.2	38.1	3.4	76	n.	1.3	0.6			10				0	0	
Moncalieri	29.31	744 5	30.26	768.7	36.0	2.2	89	nne.	0.7	0.3			9		ne.		0	0	
Genoa	30.05	763.2	30.24	768 2	51.8	11.0	91	se.	4.9	2.2			10		se.		0.106	2.7	
Pesaro	30.23	767.8	30.28	769.1	46.9	8.3	77	nw.	3.1	1.4			9				0	0	
Florence	29.98	761.4	30.24	768.1	44.6	7.0	91	ese.			2		10				0	0	
Leghorn	30.15	765.7	30.23	767.9	50.2	10.1	90	w.	3.1	1.4			10		wsw.		0.043	1.1	
Rome	30.12	765.1	30.30	769 7	53.6	12.0	58	n.	0	0			10				0.071	1.8	
Lecce	30.05	763.2	30.31	769.8	50.7	10.4	53	ene.	3.8	1.7			0				0	0	
Cosenza	29.41	747.0	30.33	770.4	45.7	7.6	72	se.	2.5	1.1			0				0	0	
Cagliari	30.12	765.0	30.32	770.0	56.8	13.8	72	nw.			4		10				0	0	
Palermo	30.11	764.8	30.37	771.3	57.9	14.4	70	nnw.	3.1	1.4			4		n.		0	0	
Syracuse	30.25	768.4	30.30	769.6	55.9	13.3	63	e.	1.3	0.6			3		wnw.		0	0	
Sub-series.																			
Naples, Astron'l Obs'y	29.78	756.5	30.32	770.2	51.6	10.9	63	se.	0	0			0				0	0	
JAPANESE.																			
Akita	30.20	767.1	30.23	768 0	32.4	0.2	73	e.			2		10k;ks		nw.		0	0	cloudy
Awomori	30.13	765.3	30.17	766.3	28.7	— 1.8	71	s.	18.6	8.3			9ks;ck		w.		0.025	0.6	cloudy
Hakodate	30.14	765 6	30.15	765.8	35.0	1.7	79	wsw.	9.0	4.0		0	8 ks		nw.		0	0	cloudy
Hamamatsu	30.14	765.5	30.24	768.0	39.3	4.1	82	calm			0	0	0				0	0	clear
Hiroshima, I. M. Obs'y	30.26	768 7	30.28	769.1	36.3	2.4	86	n.	6.3	2.9		8 ck	0		w.		0	0	cloudy
Kagoshima	30.26	768 6	30.27	768.9	43.4	6.3	85	calm			0	0	4ks;s		nw.		0	0	fair
Kanazawa	30.17	766 2	30.28	769.0	33.0	0.6	78	e.	5.6	2.5		0	0				0	0	clear
Kioto	30.10	764.6	30.28	769.0	32.5	0.3	87	n	1.5	0.6		1cs;ck	0				0	0	clear
Kochi	30.23	767.9	30.25	768.4	42.1	5.6	92	wnw.	2.1	0.9		0	0				0	0	clear
Miasaka	30.25	768.3	30.28	769.0	41.1	5.1	95	nnw.			1	0	1 s		w.		0	0	clear
Miyako	30.10	764.5	30.21	767.3	30.7	— 0.7	64	wsw.	1.8	0.8		0	0				0	0	clear
Nagasaki, I. M. Obs'y	30.07	763.8	30.28	769.1	41.5	5.3	92	calm	0	0		8 ck	0		sw.		0	0	cloudy
Nemuro	30.04	763.0	30.09	764.3	20.3	— 6.5	68	sw.	6.0	2.7		1 k	0				0	0	clear
Niigata	30.24	768.1	30.28	769.1	32.0	0.0	94	s.	5.7	2.5		0	6ks;s		w.		0	0	cloudy
Nobiru	30.22	767.6	30.24	768.0	30.3	— 0.9	86	nnw.	5.5	2.4		0	0				0	0	clear
Numadzu	30.21	767.3	30.24	768.2	43.2	6.2	69	ese.			2		10 s				0	0	overcast
Osaka	30.26	768 5	30.27	768.9	35.0	1.7	90	n.	3.5	1.5		2 cs	0				0	0	clear
Sakai	30.26	768.6	30.27	768.8	35.9	2.2	94	nw.			2	4 cs	2 ks	nw.	w.		0	0	fair
Sapporo	30.05	763.3	30.12	765.1	26.0	— 3.3	76	se.	8.6	3.8			10 n				0.020	0.5	snowing
Shimonoseki	30.13	765 2	30.27	768.9	39.5	4.2	86	e.			1	1 ck	0	sw.			0	0	clear
Tokei Obs'y, Yeddo	30.18	766.6	30.26	768.7	33.3	0.7	88	s.	2.5	1.1		0	0				0	0	clear
Wakayama	30.20	767.0	30.25	768.4	35.8	2.1	85	calm	0	0		3ck;cs	0		ne.		0	0	clear
MAURITIUS.																			
Mauritius R. A. Observatory	29.80	756.9	29.99	761.7	77.4	25.2	81	sw.	13.0	5.8			10n;ks				0.14	3.6	rainy
MEXICAN.																			
Leon	24.39	619.5	30.33	770 4	39.6	4.2	82	nnw.	0.9	0.4		0	0				0	0	clear
Mazatlan	29.86	758.3	30.12	765.0	64.5	18.1	46	nne.	1.0	0.8		0	0				0	0	clear
NETHERLANDS.																			
Flushing	29.87	758.6	29.87	758.6	48.2	9.0		wsw.			5						0.197	5.0	
Groningen	29.71	754 5	29.76	755.9	43.0	6.1		wsw.			3						0.138	3.5	
Helder	29.71	754 5	29.71	754.5	45.3	7.4		sw.			4						0	0	
Hellevoetsluis	29.83	757.7	29.83	757.7	50.0	10.0	94	wsw.			4						0.291	7.4	
Utrecht	29.77	756.2	29.83	757.6	48.0	8.9	94	wsw.			4		7				0.260	6.6	very cloudy
Sub-series.																			
Batavia, Java	29.95	760.7			75.4	24.1	89	ssw.	0.5	0.2			10				0	0	
NORWEGIAN.																			
Bergen	29.02	737.1	29.08	738.7	39.9	4.4	87	sse.	27	12			10				0.315	8.0	raining
Brono	29.17	740.8	29.21	741.8	29.8	— 1.2	74	calm			0		8				0.004	0.1	
Christiania	29.17	740.9	29.32	744.8	23.2	— 4.9	93	e.	7	3			10				0.209	5.3	
Gjæsvær	29.26	743 2	29.28	743 8	14.2	— 9.9		ese.			6		8				0.035	0.9	
Lodingen	29.04	737.6	29.09	738.8	28.9	— 1.7	96	w.			4		10				0.010	0.4	snowing
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira																			Capt. D. A. de Cunha.
Lisbon, Observatory	30.08	763.9	30.17	766.2	64.4	18.0	69	e.	7.4	3.3			10				0.382	9.7	The Staff.
Ponta Delgada, Azores	29.95	760.8	30.29	769.4	57.4	14.1	66	ne.	18.6	8.3			8				0	0	
Saint Paul de Loanda	30.23	767.8	30.30	769.6	60.1	15.6	69	ne.	6.3	2.8			4				0	0	
St. Vincent, Cape Verd Ids.	30.00	761.9	30.03	762.8	70.7	21.5	72	ne.			5		4				0	0	
San Salvador, Congo	28.02	711.7	29.87	758.6	72.1	22.3	82	calm			0		10						light rain
Serra da Estrella	25.56	649 1	30.30	769 7	51.6	10.9	60	ssw.	4.9	2.2			8				0	0	
RUSSIAN.																			
Akmolinski	29.07	738.4	30.28	769.1	1.2	—17.1	73	sse.	9	4		4 cs	0				0	0	Major K. Lasarew.
Archangel	29.59	751.5	29.61	752.0	— 8.0	—22.2	90	se.	2	1			9 ks				0	0	Capt. Sselliwerstow
Ashurada	29.93	760.3	29.84	757.9	51.8	11.0	86	nne.	2	1		0	7 ks				0.102	2.6	
Astrakhan	30.17	766.3	30 09	764.3	18.5	— 7.5	58	wnw.	18	8			10 s				0	0	Capt. Wisganow.
Baku	30.02	762.5	29.97	761.3	39.0	3.9	70	n.	31	14		0	7				0.024	0.6	
Barnaul	30.07	763.7	30.64	778.2	— 0.8	—18.2	87	sw.	2	1			0				0	0	Meteorological Office.
Bielosersk	29.31	744.5	29.82	757.5	4.1	—15.5	93	wnw.	4	2			10 ks				0.051	1.3	light snow
Dorpat	29.60	751.8	29.85	758.3	26.6	— 3.0	87	w.	7	3			10 n				0.035	0.9	
Ekaterinburg	28.72	729.4	29.74	755.3	17.2	— 8.2	91	se.	9	4			10				0	0	Observatory.
Elisawetgrad	29.02	760.0	30.42	772 6	15.1	— 9.4	70	calm	0	0		0	0				0	0	Meteorological Obs'y.
Kasan	29.21	741.0	29.80	749.3	4.1	—15.5	90	sw.	9	4			10				0	0	
Kem	29.48	748.8	29.53	750.1	4.6	—15.2	91	se.	13	6			10 n				0	0	Observatory.
Kertch	30.36	771.1	30.38	771.7	21.4	— 5.9	62	w.	9	4		0	2 k				0	0	
Kieff	29.60	751.7	30.29	769.3	17.2	— 8.2	76	wsw.	9	4		0	1 ks				0	0	Lagorio & Sastyres.
Koslov	29.34	745.2	29.89	759.2	6.4	—14.2	69	nw.	16	7		0	0				blank	blank	light clouds
Lgov	29.63	752.6	30.28	769.2	2.5	—16.4	75	wsw.	4	2		0	0				0.016	0.4	Observatory.
Libau	29.77	756.1	29.79	756.7	25.7	— 3.5	84	s.	18	8			10				0	0	R. I. Ssaweljew, Engin'r.
Lugan	30.00	762.1	30.23	767 8	13.5	—10.3	57	wnw.	22	10			2				0	0	L. Quass.
Moscow	29.38	746.2	29.91	759 7	7.2	—13.8	78	nnw.	4	2		0	7 s				0	0	Meteorological Obs'y
Nertschinsk	28.05	712.4	30.65	778.6	— 6.0	—21.1	84	calm	0	0			0				0	0	Meteorological Obs'y

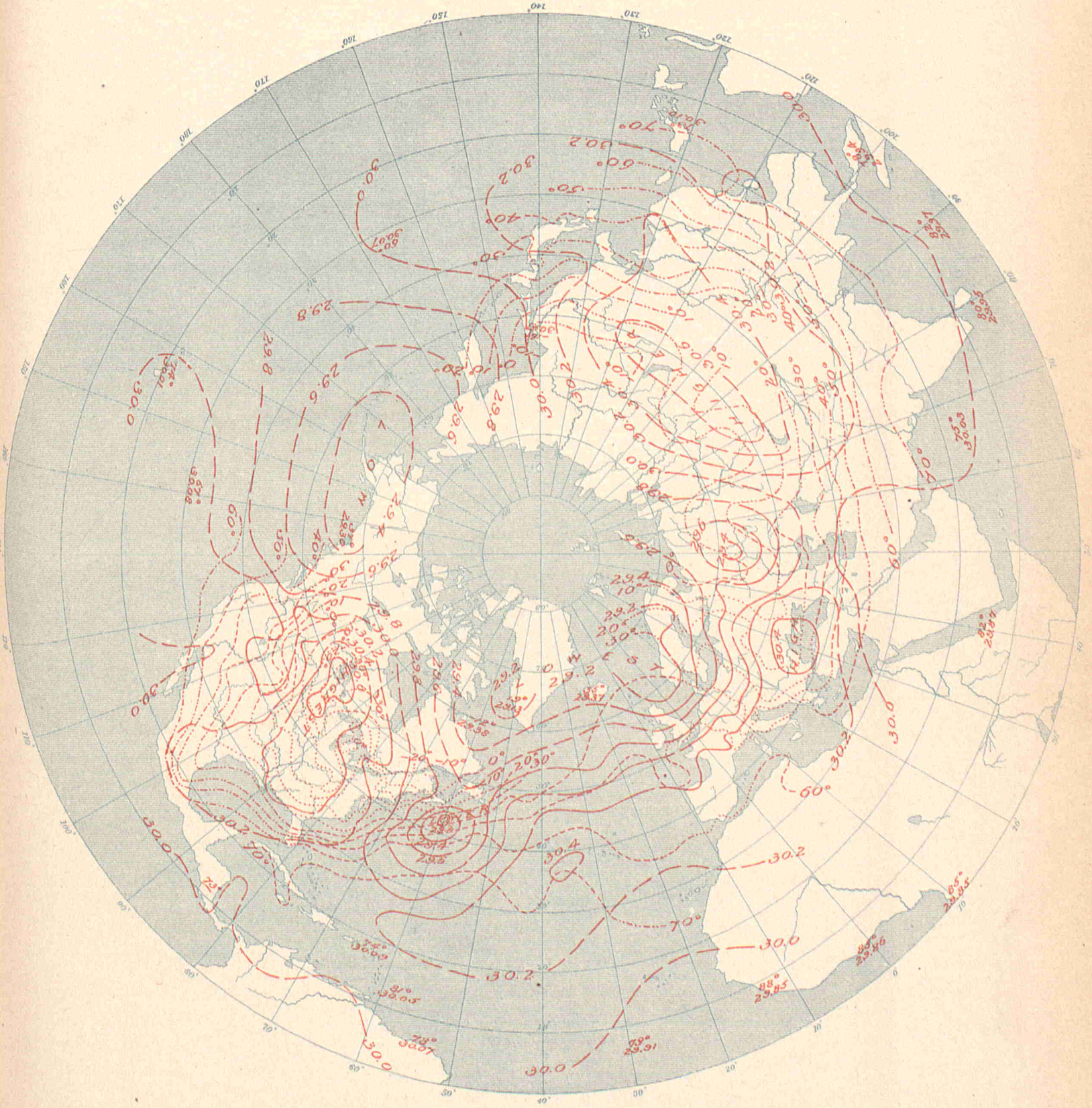
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	30.38	771.6	30.45	773.4	14.4	— 9.8	64	nw.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	29.98	761.5	30.07	763.7	—15.9	—26.6	80	w.	4	2	.....	1 c	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.32	770 0	30.46	773.6	30.6	— 0.8	58	calm	0	0	.....	0	3 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.71	754.7	30.08	764.1	34.9	1.6	87	calm	0	0	.....	.....	10 k	.....	.....	.....	.....	.....	
Petrozavodsk	29.41	746.9	29.62	752.3	9.7	—12.4	85	ssw.	22	10	.....	.....	10	.....	.....	0.067	1.7	.....	Dr. Bergmann.
Pinsk	29.68	753 9	30.22	767.6	16.2	— 8.8	72	w.	9	4	.....	.....	10 s	.....	.....	0	0	light clouds	
Pott	30.19	766.7	30.22	767.5	34.7	1.5	85	nw.	11	5	.....	.....	10 n	.....	.....	0.157	4.0	raining	
St. Petersburg	29.70	754.4	29.72	755.0	24.3	— 4.3	77	sw.	16	7	.....	.....	10 n	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.65	702 4	30.17	766.2	47.3	8.5	63	calm	0	0	.....	1 ck	0	.....	.....	.....	.....	.....	
Semipalatinsk	29.95	760.6	30.69	779.5	3.4	—15.9	71	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Major Lasarew
Sevastopol	30.22	767.6	30.45	773.4	25.5	— 3.6	60	se.	4	2	.....	0	1 s	.....	.....	0	0	.....	
Starol Bykhov	29.56	750 8	30.15	765.9	20.5	— 6.4	82	sse.	4	2	.....	.....	9	.....	.....	0.102	2.6	.....	
Tashkend, Laboratory	28.49	723.7	30.24	768.2	35.1	1.7	66	ne.	7	3	.....	0	1 k	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	28.55	725.2	30.02	762.4	38.1	3.4	54	nnw	22	10	.....	.....	10 s	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.61	701.2	30.30	769.5	19.9	— 6.7	57	calm	0	0	.....	6 ck	0	.....	.....	.....	.....	.....	
Viatka	28.63	727.2	29.31	744.5	1.8	—16.8	96	calm	0	0	.....	.....	3	.....	.....	0	0	.....	
Vladivostock	30.09	764.3	30.16	766.0	12.2	—11.0	60	n.	13	6	.....	0	5 s	.....	.....	0	0	.....	
Warsaw	29.56	750.7	30.00	762.1	25.5	— 3.6	76	sse.	18	8	.....	.....	10 ks	.....	.....	0.161	4.1	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	30.22	767.7	30.54	775.8	7.2	—13.8	87	w.	2	1	.....	0	0	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.28	743.7	29.88	758.9	5 6	—14.7	77	w.	17	7.6	.....	.....	9 s	.....	w.	0	0	cloudy	Prof. S. Fadeieff.
Spanish.																			
Barcelona, Met. Obs'y	30.15	765.8	30.26	768.6	58.6	14.8	75	w.	.....	.....	.....	.....	.....	.....	.....	0	0	covered	B. J. Elin.
Bilbao, Met. Obs'y	30.25	768 3	30.31	769.8	63.0	17.2	63	se.	3.8	1.7	.....	.....	10	.....	.....	0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27 38	695.4	30.43	772.8	48.7	9.3	82	w.	5.6	2.5	.....	0	7	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.12	714.2	30.38	771.7	56.8	13.8	63	ne.	4.9	2.2	.....	3	0	sw.	.....	0	0	.....	The Staff.
Murcia, Met. Obs'y	30.19	766.8	30.32	770 0	54.1	12.3	95	ene.	1.8	0.8	.....	4	3	sw.	.....	0.012	0.3	misty	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.32	744.8	30.22	767.7	58.5	14.7	80	w.	1.8	0.8	.....	.....	10	.....	.....	0.343	8.7	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.05	763.2	30.12	764.9	68.9	20.5	71	nne.	12.3	5.5	.....	ck	6 k	s.	ne.	0.92	23.4	fair	Benito Vines, S. J.
Manilla, Philippine Islands	30.04	763.1	30.10	764.6	73.0	22.8	68	e.	5.5	2.5	.....	0	0	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.15	765.8	30.25	768.3	63.7	17.6	65	ese.	13.4	6.0	.....	2	0	e.	.....	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	30.00	762.0	30.09	764.3	73.8	23.2	87	calm	0	0	.....	3 cs	2 k	sw.	sw.	0	0	.....	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.16	740.7	29.20	741.7	21.9	— 5.6	100	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	
Umea	29.29	743.9	29.34	745 2	18.9	— 7.3	92	w.	.....	.....	2	.....	8	.....	.....	0	0	.....	
Hernosand	29.27	743.4	29.32	744.7	24.1	— 4.4	91	s.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Stockholm	29.30	744.3	29.48	748.8	31.8	— 0.1	94	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	
Wisby	29.50	749.3	29.56	750.8	31.3	— 0.4	96	s.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing	
Sub-series.																			
Upsala	29.36	745.7	29.45	747.9	29.3	— 1.5	97	s.	14.8	6.6	.....	.....	10	.....	.....	0.126	3.2	snowing	H. H. Hildebrandesson
Swiss.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.39	772.0	34.7	1.5	86	n.	13	6.0	.....	.....	9	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.31	769.8	54.5	12.5	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.89	759.1	52.3	11.3	75	sw	.....	.....	2	.....	10 n	.....	sw.	0.455	11.6	.....	F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.02	762.5	30.11	764.8	0	—17.8	68	ne.	5	2 2	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.51	749.5	30.22	767.6	— 1	—18.3	68	w.	7	3.1	.....	0	1 s	.....	.....	0.01	0.3	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.97	634.2	30.09	764.3	30.0	— 1.1	70	e.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.06	687.3	30.10	764.5	— 2.0	—18.9	38	ne.	3	1.3	.....	.....	10 n	.....	ne.	0 03	0.8	light snow	F. Newman.
Atlanta, Georgia	29.13	739 9	30.36	771.1	1.0	—17.2	72	nw.	9	4.0	.....	9 cs	0	nw.	.....	0.03	0.8	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.18	766.6	30.18	766.6	6.0	—14.4	52	nw.	6	2.7	.....	0	0	.....	.....	0.11	2.8	clear	B. A. Blundon.
Augusta, Georgia	30.26	768.6	30.46	773.7	15	— 9.4	75	n.	1	0.4	.....	0	0	.....	.....	0.06	1.5	clear	W. J. Evans.
Baltimore, Maryland	30.24	768.1	30.29	769.4	11	—11.7	40	w.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	Geo. W Felger.
Barnegat City, New Jersey	30.14	765.5	30.16	766.1	10.0	—12.2	58	nw.	23	10.3	.....	1 k	0	.....	.....	0.06	1.5	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.76	730.5	30.50	774 7	—13.5	—25.3	72	se.	5	2.2	.....	hz.	hz	.....	.....	0.09	2.3	light haze	A. Pritchard.
Benton, Fort, Montana	27.16	689.0	30.14	765 5	— 2.5	—19.2	67	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.53	724 6	30.53	775.4	—28	—33.3	100	e.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	B. O. Lenoir.
Block Island, Rhode Island	30.03	762.7	30.06	763.5	9.8	—12.3	67	n.	22	9.8	.....	0	0	.....	.....	0	0	clear	J. T. Elker.
Boise City, Idaho	27.23	691.6	30.16	766.1	33	0.6	88	n.	1	0.4	.....	0	3 s	.....	.....	0	0	clear	James Kenealy.
Boston, Massachusetts	29.84	757.9	30.01	762.2	— 0.5	—18.1	68	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	30.26	768.6	30.32	770.1	26.6	— 3.0	77	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	John McGlone.
Buffalo, New York	29.38	746.2	30.17	766.3	8.9	—12.8	81	w.	22	9.8	.....	1 ck	2 s	w.	w.	inap.	inap.	clear	Wm. Finn.
Buford, Fort, Dakota	28.15	715.0	30.38	771.6	—18.5	—28.1	100	ne.	15	6.7	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	A. Schneider.
Cairo, Illinois	30.22	767.6	30.64	778.2	— 6.5	—21.4	78	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.57	751.1	29.77	756.1	47.4	8.6	88	se.	16	7.2	.....	0	5 ks	.....	s.	0.36	9.1	fair	J. H. Young.
Cape Henry, Virginia	30 30	769 6	30.32	770.1	14.0	—10.0	80	nw.	28	12.5	.....	.....	10 s	.....	.....	1.44	36.6	cloudy	A. K. Alderson.
Cape May, New Jersey	30.20	767.1	30.24	768.1	13.0	—10.6	57	nw.	34	15.2	.....	0	0	.....	.....	0.21	5.3	clear	W. E. Smith.
Cape Mendocino, California	29.37	746.0	30.07	763 8	48	8.9	100	se.	16	7.2	.....	.....	10 n	.....	.....	0.26	6.6	light rain	A. P. Leavitt.
Cedar Keys, Florida	30.36	771.1	30.38	771.6	26.0	— 3.3	64	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.31	769.9	30.37	771.4	15.0	— 9.4	87	n.	10	4.5	.....	0	0	.....	.....	0.15	3.8	clear	J. H. Smith.
Charlotte, N. Carolina	29.48	748.8	30.37	771 4	8.0	—13.3	55	n.	1	0.4	.....	0	0	.....	.....	0.11	2.8	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.61	752.1	30.47	773.9	1.0	—17.2	72	ne.	12	5.4	.....	9 cs	0	nw.	.....	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.69	601.7	29.96	761.0	29.1	— 1.6	61	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.72	754.9	30.47	773.9	—14.0	—25.6	63	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.24	768 1	30.26	768.6	9	—12.8	76	nw.	19	8 5	.....	0	0	.....	.....	inap.	inap.	clear	C. F. Dickens.
Cincinnati, Ohio	29.90	759.4	30.59	777.0	— 5.0	—20.6	79	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	L. Dunne.
Cleveland, Ohio	29.61	752.1	30.39	771.9	— 6.0	—21.1	62	w.	11	4.9	.....	.....	10 s	.....	w.	0	0	cloudy	W. Line.
Columbus, Ohio	29.58	751.3	30.48	774.2	—18.7	—28.2	100	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. T. Williams.
Concho, Fort, Texas	28.25	717.5	30.27	768.8	16.5	— 8.6	83	s.	3	1.3	.....	0	5 k	.....	s.	0	0	fair	C. E. King.
Custer, Fort, Montana	26.67	677.4	30.05	763 3	— 1	—18.3	100	n.	8	3.6	.....	.....	10 n	.....	.....	0.07	1.8	light snow	W. J. Daily.
Davenport, Iowa	29.86	758.4	30.57	776.5	—12.5	—24.7	72	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.15	638.8	30.13	765.3	33.2	0.7	65	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.05	712.5	29.86	758 4	33.5	0.8	86	w.	4	1.8	.....	0	3 ks	.....	w.	0.11	2.8	clear	H. S. Blandford.
Deadwood, Dakota	25.17	639.3	30.12	765 0	— 5.3	—20.7	83	n.	5	2.2	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	G. Kingsbury.
Delaware Breakwater, Del.	30.22	767.6	30.24	768.1	13.7	—10.2	64	nw.	28	12.5	.....	0	0	.....	.....	0.20	5.1	clear	G. A. Martin.
Denver, Colorado	24.42	620.3	29.94	760.5	22.0	— 5.6	81	n.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.59	751.6	30.56	776.2	—10	—23.3	51	ne.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear	F. W. Conrad.
Detroit, Michigan	29.62	752.3	30.38	771 6	— 2.0	—18.9	65	w.	8	3.6	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	N. B. Conger.
Dodge City, Kansas	27.48	698.0	30 23	767.8	1	—17.2	72	e.	22	9.8	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.79	756.7	30.56	776 2	—21.2	—29.6	63	w.	1	0.4	.....	0	fg	.....	.....	0	0	clear	J. Harvey Smith
Duluth, Minnesota	29.74	755.4	30.56	776.2	—18	—27.8	100	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. R. Brace.
Eastport, Maine	29.81	757.2	29.88	758 9	— 4.0	—20.0	65	n.	17	7.6	.....	0	3 s	.....	n.	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.20	690.9	30.13	765.3	5.6	—14.7	64	se.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.23	666 2	30.11	764 8	37.3	2.9	51	nw.	4	1.8	.....	0	1 s	.....	nw.	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.50	749.3	30.27	768.8	6.5	—14.2	89	sw.	16	7.2	.....	.....	10 n	.....	.....	0.18	4.6	light snow	C. A. Shaw.
Escanaba, Michigan	29.63	752.6	30.35	770.9	— 9.0	—22.8	71	w.	10	4.5	.....	3 cs	0	n.	.....	0	0	clear	L. M. Pindell.
Fort Smith, Arkansas	29.95	760 7	30.45	773.4	9.0	—12.8	76	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. B. Campbell
Galveston, Texas	30.29	769.4	30.33	770 4	28.1	— 2.2	77	n.	12	5.4	.....	0	5 s	.....	.....	0	0	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.64	752.8	30.35	770.9	4.0	—15.6	72	ne.	1	0.4	.....	.....	10 n	.....	.....	0.11	2.8	light snow	Joseph E. Mueller.
Grant, Fort, Arizona	25.18	639.6	30.08	764.0	42.6	5.9	30	n.	5	2.2	.....	5 c;cs	0	w.	.....	0	0	fair	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.25	768.3	30.26	768.6	16.0	— 8.9	83	nw.	28	12.5	.....	0	4 k	.....	nw.	0.31	7.9	fair	R. M. Crawford.
Helena, Montana	25.54	648.7	29.92	760.0	.....	.....	.....	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Morrison.
Huron, Dakota	29.14	740.1	30.68	779.3	—24.3	—31.3	90	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear	S. W. Glenn.
Indianapolis, Indiana	29.68	753.9	30.52	775.2	—15.5	—26.4	79	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.32	770.1	30.34	770.6	23.2	— 4.9	68	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.32	770.1	30.37	771.4	21.0	— 6.1	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.86	758.4	30.56	776.2	— 6.0	—21.1	79	nw.	1	0.4	.....	0	0	.....	.....	0.03	0.8	clear	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	63	17.2	78	n.	16	7.2	.....	0	6k;ks	.....	n.	0.01	0.3	fair	A. W. Browne.
Kittyhawk, North Carolina	30.28	769.1	30.30	769.6	10.0	—12.2	66	nw.	24	10.7	.....	0	2 s	.....	.....	0.49	12.4	clear	Wesley Blake.
Knoxville, Tennessee	29.42	747.3	30.50	774.7	— 9.5	—23.1	70	ne.	1	0.4	.....	10 cs	0	.....	.....	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.71	754.6	30.55	776.0	— 1.8	—18.8	100	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	S. C. Emery
Leavenworth, Kansas	29.57	751.1	30.53	775.4	— 2	—18.9	81	se.	4	1.8	.....	.....	10 n	.....	.....	0.09	2.3	light snow	T. S. Outram.
Lewiston, Idaho	28.98	736.1	29.85	758.2	34.0	1.1	83	calm	0	0	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	C. E. Butler.
Little Rock, Arkansas	30.19	766.8	30.52	775.2	8.0	—13.3	76	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.72	754.9	30.12	765.0	54.0	12.2	74	ne.	3	1.3	.....	0	5 s	.....	ne.	0	0	fair	T. S. Collins.
Louisville, Kentucky	29.98	761.5	30.58	776.7	— 3.2	—19.6	72	sw.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	threatening	L. M Dey.
Lynchburg, Virginia	29.60	751.8	30.32	770.1	8.0	—13.3	55	nw.	5	2.2	.....	0	1 s	.....	nw.	1.30	33.0	clear	Jno. Healy.
Mackinaw City, Michigan	29.52	749 8	30.22	767.6	6.0	—14.4	60	w.	13	5.8	.....	0	4 s	.....	.....	0.10	2.5	fair	D. B. Notson.
Macon, Fort, North Carolina	30.30	769.6	30.31	769.9	9.0	—12.8	55	nw.	31	13.9	.....	0	0	.....	.....	0.38	9.7	clear	William Daly.
Maginnis, Fort, Montana	25.49	647.4	30.26	768.6	— 5.0	—20.6	65	w	2	0.9	.....	.....	10 n	.....	.....	0.04	1.0	light snow	F. Burke.
Marquette, Michigan	29.56	750.8	30.34	770.6	2.0	—16.7	54	nw.	16	7.2	.....	0	6 s	.....	nw.	0	0	fair	J. Gilligan.
Memphis, Tennessee	30.29	769.4	30.65	778 5	0	—17.8	83	n.	4	1.8	.....	0	3 s	.....	.....	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.64	752.8	30.44	773.2	—10.0	—23.3	72	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	S. W. Rhode.
Mobile, Alabama	30.38	771.6	30.42	772.7	15.1	— 9.4	67	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Montgomery, Alabama	30.22	767.6	30.46	773.7	8	—13.3	27	n.	8	3.6	.....	3 cs	0	n.	.....	0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.49	749.0	30.60	777.2	—33	—36.1	100	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.10	586.7	29.73	755.1	—21.0	—29.4	.....	nw.	48	21.5	.....	4 cs	0	.....	.....	0	0	fair	Edwd. A. Beals.
Nashville, Tennessee	29.95	760.7	30.56	776.2	— 8.6	—22.6	84	ne.	3	1.3	.....	.....	10 n	.....	.....	inap.	inap.	light snow	L. N. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.08	764.0	7	—13.9	52	n	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.05	763.3	30.10	764.5	0.5	—12.5	56	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.35	770.9	30.41	772.4	25.0	— 3.9	56	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	M. Herman.
New York, New York	29.97	761.2	30.16	766 1	12.0	—11.1	80	w.	9	4 0	.....	0	9 s	.....	.....	0	0	cloudy	H. J. Penrod.
Norfolk, Virginia	30.26	768.6	30.29	769.4	11.2	—11.6	61	n.	12	5.4	.....	0	3 s	.....	n.	0.09	2.3	clear	Wm. Davis.
North Platte, Nebraska	27.18	690.4	30.30	769.6	1.0	—16.9	89	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	Mc Lean.
Olympia, Washington T'y	29.67	753.6	29.71	754.6	45.0	7.2	93	s.	12	5.4	.....	.....	10 n	.....	.....	0.63	16.0	light rain	J. Dascomb.
Omaha, Nebraska	29.27	743.4	30.54	775.7	— 4.0	—20.0	71	ne.	4	1.8	.....	0	0	.....	.....	0.11	2.8	clear	A. Pollak
Oswego, New York	29.78	756.4	30.13	765 3	5.0	—14.4	27	se.	5	2.2	.....	0	9 k	.....	w.	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.80	756.9	30.38	771.6	14.0	—10.0	64	ne.	3	1.3	.....	1 cs	0	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.38	771.6	30.41	772.4	16.7	— 8.5	55	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.11	764 8	30.22	767.6	11	—11.7	80	nw	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	17.36	440.9	30.06	763.5	5.0	—15.0	83	w.	36	16.1	.....	0	0	.....	.....	inap.	inap.	clear	H. Hall.
Pittsburg, Pennsylvania	29.52	749 8	30.36	771.1	3.0	—16.1	91	sw.	6	2.7	.....	.....	10 n	.....	w.	inap.	inap.	light snow	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	—15.8	—26.6	100	e.	.....	.....	2	.....	10 ks	.....	.....	0.05	1.3	cloudy	G. A. Carden.
Port Huron, Michigan	29.52	749.8	30.25	768.3	— 3.3	—19.6	65	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	29.91	759.7	29.96	761.0	2.0	—16.7	72	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.77	756.1	29.84	757.9	45.5	7.5	88	s.	14	6.3	.....	0	3 s	.....	.....	0.26	6.6	clear	M. L. Hearn.
Prescott, Arizona	24.69	627.1	30.07	763.8	40.7	4.8	52	se.	6	2.7	.....	hz.	4 s	.....	.....	0	0	fair	N. D. Lane.
Provincetown, Mass.	29.93	760.2	29.96	761.0	10.9	—11.7	81	nw.	14	6.3	.....	6k.	0	nw.	.....	0	0	fair	C. N. Kitchel.
Red Bluff, California	29.73	755.1	30.10	764.5	42	5.6	100	w.	4	1.8	.....	0	0	.....	.....	1.04	26.4	clear	J. R. Williams.
Rio Grande City, Texas	30.14	765.5	30.39	771.9	24.2	— 4.3	60	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y.	29.42	747.3	30.13	765.3	9	—12.8	100	w.	13	5.8	.....	.....	10 n	.....	.....	0.27	6.9	heavy snow	E. W. McGann.
Roseburg, Oregon	29.43	747.5	30.00	762 0	43	6.1	88	s.	2	0.9	.....	0	9 s	.....	s.	0 41	10.4	cloudy	J. J. Nanry.
Sacramento, California	30.03	762.7	30.11	764.8	40.0	7.8	93	se.	6	2.7	.....	0	6 s	.....	s.	0.62	15.7	fair	J. A. Barwick.
St. Louis, Missouri	29.93	760.2	30.59	777.0	— 6.3	—21.3	66	n.	3	1.3	.....	.....	10 n	.....	.....	inap.	inap.	light snow	J. H. Weber.
St. Michael, Fort, Alaska	29.35	745.5	29.39	746.5	7	—13.9	87	ne.	36	16.1	.....	0	3 s	.....	ne.	0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.63	752.6	30.57	776.5	—19.0	—28.3	100	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	P. F Lyons.
St. Vincent, Minnesota	29.64	752.8	30.62	777.7	—34	—36.7	100	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.36	644.1	29.93	760.2	39	3.9	76	se.	4	1.8	.....	.....	10 n	.....	.....	0.02	0.5	light rain	J. Craig.
San Diego, California	30.03	762 7	30.10	764.5	53.7	12.1	80	ne.	3	1.3	.....	8 cs	0	w.	.....	0	0	cloudy	F. R. Day.
Sandusky, Ohio	29.68	753.9	30.40	772.1	— 1	—18.3	68	sw.	14	6.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.14	765.5	30.16	766.1	13.0	—10.6	61	nw.	23	10.3	.....	0	0	.....	.....	0	0	clear	V. P. Chappel.
Sanford, Florida	30.21	767.3	30.26	768.6	30.0	— 1.1	83	n.	10	7.2	.....	0	0	.....	.....	0	0	clear	J. B. Marbury
San Francisco, California	30.03	762.7	30.10	764.5	50.0	10.0	95	s.	2	0.9	.....	0	fg.	.....	.....	0.48	12.2	clear	N. Gorom.
Savannah, Georgia	30.28	769.1	30.38	771.6	20	— 6.7	62	ne.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear	R. M. Geddings.
Shaw, Fort, Montana	26.18	665.0	30.04	763.0	— 2	—18.9	68	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.14	765.5	30.39	771.9	13.0	—10.6	61	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.23	742.4	29.30	744.2	36.6	2.6	82	w.	4	1.8	.....	.....	10 ks	.....	w.	0	0	cloudy	F. W. Fickett.
Smithville North Carolina	30.32	770.1	30.36	771.1	8.0	—13.3	73	n.	5	2.2	.....	0	1 s	.....	.....	0.43	10.9	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.95	709.9	30.09	764.3	29.3	— 1.5	77	s.	4	1.8	.....	.....	10 k	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.83	757.7	30.56	776.2	— 7.7	—13.5	85	nw.	2	0.9	.....	0	0	.....	.....	inap.	inap	clear	T. B. Jennings.
Stockton, Fort, Texas	26.95	684.5	30.09	764.3	21.0	— 6.1	73	calm	0	0	.....	.....	10 s	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.55	750.6	.....	.....	44.3	6.8	95	s.	4	1.8	.....	.....	10 n	.....	s.	0.79	20.1	light rain	R. Connor.
Thomas, Camp, Arizona	27.28	692.9	30.11	764.8	23.7	— 4.6	58	calm	.....	.....	0	.....	10 s	.....	.....	0	0	cloudy	R. O. Lord.
Toledo, Ohio	29.67	753 6	30.41	772.4	— 9	—22.8	74	w.	10	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	A. Buell.
Unalashka, Alaska	29.24	742.7	29.26	743.2	25	— 3.9	88	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	Samuel Applegate.
Vicksburg, Mississippi	30.21	767 3	30.48	774.2	11.5	—11.4	64	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. Dill.
Washington, D. C.	30.22	767 6	30.34	770.6	5.0	—15.0	80	nw.	7	3.1	.....	0	0	.....	.....	0.01	0.3	clear	T. B. Harrison.
West Las Animas, Colorado	25.82	655.8	29.96	761.0	5	—15.0	96	e.	14	6.3	.....	0	2 s	.....	e.	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.32	770.1	30.38	771.6	10.0	—12.2	58	nw.	9	4.0	.....	3 c	0	.....	.....	0.29	7.4	clear	L. H. Albrecht.
Yankton, Dakota	29.12	739.6	30.54	775.7	—11.6	—24.2	82	calm	0	0	.....	0	2 s	.....	.....	0.01	0.3	clear	E. H. Thompson.
Yuma, Arizona	29.82	757.4	29.97	761.2	43.8	6.6	74	ne.	1	0.4	.....	0	3 s	.....	nw.	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.58	751.3	29.60	751.8	28.0	— 2.2	88	ne.	12	5.4	.....	.....	10 n	.....	.....	.....	.....	snowing	George Cherulick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	73	22.8	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. H. Jackson.
Bogota, U. S. C.	22.04	559.9	.....	.....	51.8	11.0	80	calm	0	0	.....	0	0	.....	.....	0	0	.....	Joaquim Gomez.
Chimo, Fort, Ungava, B. A.	29.22	742.2	29.38	746.2	—12	—24.4	100	s.	14	6.3	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.06	763.5	68.2	20.1	84	n.	1	0.4	.....	2 c	1 s	.....	.....	0.11	2.8	clear	Robert Johnstone.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	e.	.....	.....	2	.....	8 ps	e.	e.	0	0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	79	26.1	80	s.	.....	.....	1	6 ck	1 k	calm	s.	blank	blank	fair	Francisco J. Olsnerez.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73	22.8	90	ne.	.....	.....	7	.....	5 ks	.....	ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.01	762.2	30.08	764.0	—34.0	—36.7	.....	w.	10	4.5	.....	1 c	1 s	w.	w.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	30.02	762.5	30.03	762.7	74.5	23.6	95	n	2.7	1.2	.....	0	9 k	.....	n.	.....	.....	hazy	P. Fasiani.
Naôs, Bay of Panama	29.94	760.4	30.00	762.1	74.5	23.6	86	nw.	.....	.....	4	0	4 ks	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 44° 40′, W. 46° 50′ †	30.06	763.5				sse.			6		4		ssw.	3 h'r	3 h'r	long	w.	fair.
S. S. Alvo, N. 12° 00′, W. 82° 00′ *	29.98	761.5	77	25.0		n.			3		6		calm	0	0	sli't	e.	fine.
S. S. Alleghany, off Montauk Pt, N Y †	30.09	764.3	14	—10.0		nw.			5		0			0	0			clear.
Bg. Abbie Clifford, N 42° 20′, W. 68° 44′ *†	29.89	759.2	20	— 6.7		n.			6		9		n.	snow	snow	mod.	n.	snow squalls
Schr. Anna A. Holton, N. 34° 27′, W. 74° 47′ *†	30.16	766.1				n.			6		10		n.	10 h'r	10 h'r	r'gh	n.	foggy.
S. S. Alps, N. 18° 33′, W. 75° 05′			84	28.9		n.			1		8					r'gh	se.	
S. S. Circassian, N. 55° 50′, W. 19° 50′	29.82	757.4	48	8.9	85	wsw.			6		9		w.			5	wnw	overcast.
S. S. Cienfuegos, N. 25° 45″ W. 76° 38′	30.10	764.5	70	21.1		nnw.			3		10		w.	16 h'r	16 h'r	small	n.	squally.
S. S. Caracas, Curacao, W.I*†	30.01	762.2	80	26.7	86	ese.			3		3		e.	½ h'r	½ h'r	light	ne.	
S. S. City of Augusta, N. 37° 11′, W. 74° 46′						nnw.			4		10		nw.	0	0			cloudy.
S. S. Canada, N 43° 49′ W. 58° 28′	29.82	757.4	39.2	4.		var.			4							r'gh		squally.
S. Cornelius, N. 35° 12′, W. 70° 46′ *†	29.89	759 2	48.9	9.4		nw.			6		8		nw.	5 h'r	5 h'r	h'vy	nw.	squally.
Bk. Diamant, N. 40° 48′, W. 47° 15′	30.04	762.9	59.0	15.0	86	s.			5		10			0	0	3	w.	overcast.
S. S. Dorian, N. 34° 42′, W. 12° 30′	30.29	769 4	64	17.8		s.			4		8		sw.	0	0	long	nw.	fair.
Bk. Don Quixote. Weser river, Germany*	29.68	753.9	41	5.0		ssw.			5		fg.		wsw.	24 h'r	24 h'r	sm'h		foggy.
S. S. France, N. 49° 47′ W. 2° 24′ *†	29.96	761.0				w			5		6		w.	0	0	large	w.	fair.
Bk. Gipsy Queen, Matanzas, Cuba, W. I *†	30.10	764.5				ne.			6		4		ene.	1 h'r	1 h'r			fair.
Bk. Ibis, N. 36° 00′, W. 74° 30′						nnw.			7		10		nnw.	24 h'r	24 h'r	h'vy	n.	snow squalls
S. S. Iowa, N. 44° 20′, W. 53° 12′ *	29.78	756.4	41	5.0		e			4					4 h'r	4 h'r	long	w.	dense fog.
Schr. Jas. Slater, N. 25° 57′, W. 66° 24′ *†	30.15	765.8	78	25.6		nnw.			6		10		nne.	½ h'r	½ h'r	light	w.	squally.
Bg. Lilian, N 35° 00′, W. 74° 35′						nnw.			6					7 h'r	7 h'r	mod.	ne.	snow squalls
S. S. Lord Gough, N. 51° 47′, W. 7° 34′*	29.83	757.7	50	10.0		wsw.			6		10		w.	0	0	mod.	w.	cloudy.
S. S. Leipzig, N. 46° 15′, W. 80 06′	30.07	763.8	47	8.3	100	w.			5		10		w.	2 h'r	2 h'r	mod.	w.	raining.
Bg L. F. Munson, N. 35° 06′, W. 67° 42′ *†	29.80	756.9	66	18.9		wnw.			9		5		wnw.	sh'rs	sh'rs	cross	cross	squally.
S. S. Mentmore, N. 46° 55′, W. 44° 50′			42	5.6		w.			4		10			8 h'r	8 h'r	mod.	w.	squally.
Schr. Maggie Abbott, Fort Liberte, Hayti, W.I *†	30.00	762.0							2		1		se.	0	0			clear.
Bk. Matthias, N. 30° 11′. W. 44° 08′*†	30.31	769.9	69.5	20.8		sse.			2–4		3		sse.	0	0	2	wnw.	fine.
S. S. Neckar, N. 41° 43′. W. 59° 32′	29.21	741.9			94				5-6		7		sw.	rain	rain	cross	sw.	
S. S. Nova Scotian, N. 51° 45′, W. 32° 29′	29.94	760.5	41	5.0		w.			6		10		w.			high	wnw.	squally.
S. S. Nederland, N. 49° 32′, W. 13° 57′			50	10.0	86	wnw.			5		2		nw.	4 h'r	4 h'r	mod.	w.	fair.
S. S. Olbers, N. 23° 43′, W. 61° 08′	30.31	769.9	76	24.4	83	sse.			3		8		s.	0	0	sm'h		cloudy.
S. S. Olinde Rodrignes N. 49° 45′. W. 6° 45′			61	16.1		w.			6		5		wnw.	shr's	shr's	long	wnw.	fair.
S. S. Pavonia, N. 41° 50′, W. 53° 48′	29.06	753.4	63	17.2	94	ssw.			5		8		ssw.	8 h'r	8 h'r	mod.	ssw.	cloudy.
S. S. Picqua, N. 36° 36′, W. 2° 56′			60	15.6	94	e.			4		fg.			0	0			cloudy.
S. S. Rhynland, N. 45° 31′, W. 51° —′	29.86	758.4	42	5.6	75	sw.			7		10		w.	12 h'r	12 h'r	r'gh	sw.	overcast.
S. S. Romano, N. 48° 54′, W. 16° 21′			56	13.3		nw.			4		7		nw.	0	0	mod	w	light haze.
S. S. Rosse, N. 47° 54′, W. 34° 28′			53	11.7		w.			6		4		w.	4 h'r	4 h'r	h'vy	w.	fair.
Bk. Rosina, N. 24° 57′, W. 53° 03′	30.27	768.8	77	25.0		ese.			5		2		sse.	0	0	mod	e.	clear
S. S. Scythia, N. 43° 03′, W. 55° 55′	29.49	749.0	47	8.3	100	se.			2		10		ssw.	6 h'r	6 h'r	sli't	wsw.	raining.
S. S. St. Albans, N. 28° —′, W. 58° 30′*	30.09	764.3	75	23.9		s.			5		6		wsw.	0	0	gentle	nnw.	fair.
S. S. Thingvalla, Copenhagen, Denmark			37.4	3		nw.			2									
Bg. Teneriffe, N. 38° 33′, W. 73° 02′	30.08	764.0				nnw.			7		8		n.			7	n.	snowy.
Schr. Viola Reppard, N. 38° 45′. W. 71° 20′ †	30.06	763.5	27	— 2.8		n.			7		10		n.	24 h'r	24 h'r	high	n.	snowing.
S. S. Valencia, N. 34° 09′, W. 71° 56′ †	29.98	761.5	48	8.9	71	nw.			9		8		nnw.	6 h'r	6 h'r	h'vy	nw.	squally.
S. S. Westphalia, Hamburg, Germany			34	1.1	79	sse.			3		10		s.	0	0			cloudy.
Bk. Ariadne, N. 25° 07′, W. 65° 13′	30.14	765.5	73	22.8		ssw.			4		8		ssw.	0	0	mod.	s; nw	cloudy.
Schr. Annie R. Lewis, N. 25° 43′, W. 68° 24′ †	30.18	766.6	74	23.3		nnw.			5		1		se; sw	light	light	rg'n	nw.	clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.13	765.3				n.			3		5		nne.	0	0	r'gh	nne.	fair.
U. S. S. Alliance, Port au Prince, Hayti, W. I	30.03	762.7	76	24.4	90	calm			0		5		calm	0	0	sm'h		fair.
S. S. Britannic, N. 40° 25′, W. 67° 20′*†.	29.80	756.9	28	— 2.2		nnw.			6		4?		nw.	4 h'r	4 h'r	high	nw.	squally.
S. S. British Princess, Cape Henlopen, Del †	30.15	765.8	10	—12.2		nw.			6		10 ks			14 h'r	14 h'r			clear?
S. S. Chalmette, N. 37° 25′ W. 74° 40′ †	30.26	768.6	23	— 5.0		nnw.			6		10		nnw.	4 h'r	4 h'r	mod.	nnw.	cloudy.
Schr. Ellen Crusoe, Mayaguez, Porto Rico *†	30.09	764.3				e.							ne.	0	0			fine.
S. S. Germanic, N 49° 57′, W. 34° 42′*†	29.89	759.2	46	7.8	92	w.			4		10		wsw.	5 h'r	5 h'r	short	w.	raining.
S. S. Grecian, N. 6° 20′. W. 28° 52′	29.91	759.7	79	26.1	78	ne.			5		1		ne.	1 h'r	1 h'r	high	ne.	clear.
Bg. John Welsh, jr, N. 28° 25′, W. 91° 30′ †	30.36	771.1				nne.			5		10		n.			sm'h	n.	dense fog.
S. S. Lone Star, N. 27° 20′, W. 80° 05′			60	15.6		nnw.			3		3		nw.	0	0	small	n.	clear.
S. S. Lord Clive, N. 44° 49′, W. 53° 29′	29.74	755.4				e.			4		10			10 h'r	10 h'r	sli't	wnw.	light rain.
S. S. Muriel, N. 38° 10′, W. 72° 43′	30.05	763.3	51?	10.6?		nnw.			5		10		n.	3 h'r	3 h'r	r'gh	nnw.	snowing?
S. S. Ontario, N. 53° 55′, W. 28° 22′	29.73	755.1	42	5.6		wsw.			7		3		wsw.	2 h'r	2 h'r	sm'h	wsw.	clear
S. S. Orinoco, N. 37° 30′, W. 72° 55′ †	30.10	764.5	34	1.1		n.			5		8		n.	6 h'r	6 h'r	r'gh	n.	squally.
S. S. Rhaetia, N. 56° 11′ W. 12° 29′			50	10.0	93	wnw.			4–5		7		wnw.	0	0	mod.	w.	fair.
Bk. Saga, N. 23° 50′, W. 30° 00′ *†	30.09	764.3	71.5	21.9		var.			5–6		6		nnw.	5 h'r	5 h'r	long	nnw.	rainy.
S. Storm King, N. 29° 38′, W. 37° 50′ *†	30.30	769.6				nne.			3		9		nne.	2 h'r	2 h'r	mod.	n.	dense fog.
S. S. State of Nebraska, N. 40° 16′, W. 69° 19′*†	29.90	759.4	29	— 1.7		nnw.			6		10		nw	6 h'r	6 h'r	short	n.	snowing.
S. S. Samaria, N. 42° 11′, W. 67° 00′	29.71	754.6	23	— 5.0		wnw.			6		10			10 h'r	10 h'r	mod.	n.	snowing.
S. S. Salerno, N. 49° 29′, W. 6° 37′ †	30.06	763.5	60	15.6		w.			3		5		n.	0	0	sm'h	w.	fine.
S. S. St. Laurent, N. 44° 00′, W. 52° 45′			41.0	5		sse.			2					10 h'r	10 h'r	sm'h		misty.
U. S. S. Swatara, Port au Prince, Hayti, W.I			75	23.9	81	calm			0		8					sm'h		cloudy.
U. S. S. Tennessee, Port au Prince, Hayti, W. I	30.03	762.7	74	23.3	81	w.	2	0.9			10		calm	0	0			cloudy.
U. S. S. Vandalia, Port of Spain, Trinidad	30.01	762.2	73	22.8	90	ne.			1		2							fair.
S. S. Venetian, N. 43° 10′, W 58° *50′	29.39	746.5	44	6.7		ese.			3–4		10		sse.	10 h'r	10 h'r	r'gh	var.	heavy rain.
S. S. Weser, N. 46° 16′, W. 40° 44′	29.22	742.2	55.4	13		ssw.			4–5		2		wnw.	0	0	long		fair.
S. S. Westernland, N. 40° 10′, W. 68° 40′			29	— 1.7		nnw.			6		10		nnw.	17 h'r	17 h'r	long	n.	snowing.
S. S. City of Berlin, N. 51° 16′, W. 19° 30′	30.01	762.2	52	11.1		wsw.			3									clear.
U. S. Navy Yard, Portsmouth, N.H.*	30.02	762.5	2	—16.7	72	nw.	7	3.1			0			0	0			clear.
U. S. S. Kearsarge, Villefranche, France	30.15	765.8	57	13.9	75	ssw.			1		8							cloudy.
U. S. S. Lancaster, Villefranche, France	30.18	766.6	56	13.3	94	s.			1		10			0	0	sm'h		cloudy.
U. S. S. New Hampshire, Newport, R. I	30.02	762.5	5	—15.0	100	nnw.			4		0					sm'h		clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.22	767.6	53	11.7	86	ne.			1		10					sm'h		cloudy.
U. S. S. Shenandoah, N. 34° 25′, W. 46° 45′ *	30.34	770.6	68	20.0	90	ssw.			4		5		ssw.			sm'h		fair.
U. S. S. Trenton, N. 42° 10′, E. 4° 08′	30.35	770.9	59	15.0	88	nw.			2		8		nw.			sm'h		cloudy
H. M. S. Alexandra, Malta, Mediterranean	30.36	771.1	60	15.6	65	wnw.			1		0							blue sky.
H. M. S. Alecto, N. 5° 05′. W. 1° 13′	29.86	758.4	85	29.4		sw.			1		6					5	ssw.	misty.
H. M. Dockyard, Bermuda, Atlantic						sw.			6									
H. M. S. Himalaya, N 49° 51′, W. 2° 48′	29.90	759.4	62	16.7		w			5		3	wsw.				3	wnw.	d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.32	770.1	60	15.6	82	wsw.			1		8	ssw.						d. clouds.
H. P. M. S. Douro, N. 0° 31′, E. 9° 18′	29.85	758.3	85.1	29.5	82	nw.			4		10		nw.	0	0	2	sw.	overcast.
S. S. British Crown, N. 42° 32′, W. 61° 09′†	29.15	740.4	33	0.6		wnw.			7		10			6 h'r	6 h'r	high	nnw.	snow squalls
S. S. Ohio, Liverpool, Eng *†.	29.70	754.4	48	8.9	100	w.			5		10		w.	2 h'r	2 h'r			cloudy.
S. S Pennsylvania, N. 49° 47′, W. 29° 45′			49	9.4	93	w.			8		8		w.	1 h'r	2 h'r	hv'y	w.	cloudy.
S. S. Devonia, N. 43° 16′, W. 58° 53′			46	7.8		ese.			3		10		se.	9 h'r	9 h'r	sli't	e.	cloudy.
S. S. Carroll, N. 43° 10′, W. 67° 18′			14	—10.0		n.			5		10		n.	snow	snow	short	n.	snow squalls
S. S. Frisia, N. 47° 30′, W. 49° 25′	29.99	761.7	49	9.4		wsw.			6		3?		wsw.	0	0	hv'y	wsw.	cloudy.?
S. S. Archimedes, N. 24° 27′, W. 80° 50′	30.14	765.5				n.			6		0			0	0	mod.	n.	hazy.
S. S. Hevelius, Southampton, Eng			50	10.0		wsw.			6		9		w.	4 h'r	4 h'r			cloudy.
S. S. Archimede, N. 36° 47′, W. 37° 06′ †	30.42	772.7	70	21.1		ene.			1		2		s.	0	0	sm'h	nw.	clear.
S. S. Texas, N. 51° 30′, W. 6° 18′ *†	29.88	758.9	49	9.4	?	w.			6		5?		w.	0	0	mod.	w.	cloudy ?
S. S. Erin, London, Eng			54	12.2		sw.			9		6		sw.	0	0			fine.
S. S. Helvetia, N. 48° 20′ W. 32° 46′	30.13	765.3	54	12.2	93	wsw.			4		3		sse.	0	0	mod	sse.	fair.
S. S. Habsburg, N. 40° 18′, W. 70° 16′	29.98	761.5				nw.			6		10		n.	½ h'r	½ h'r	cross	n.	snowing.
S. S. Waesland, off Beachy Head, Eng			50	10.0		wsw.			4		10		wsw.			sm'h		misty.
S. S. W. A. Scholten, N. 50° 38′ W. 0° 08′			46.4	8.0	100	w.			6		10		w.	0	0	2	w.	squally.
S. S. Saxon, Philadelphia, Pa †	30.31	769.9	10	—12.2		nw.			2		0							fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. S. Celtic, N. 46° 57′, W. 34° 57′*†	30.20	767.1	55	12.8		w.			4		5		w.	0	0	sm'h		fine.
S. S. Marengo, New York, N Y			18	— 7.8		wnw.			6		2		wnw.	2 h'r	2 h'r	sli't	nw.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.26	768.6	63.5	17.5	73	ese			3		1			0	0			clear.
Schr. Adda Doane, Savannah, Ga †	30.37	771.4				nne.			1		0			0	0			clear.
Bk. Celestina, Cadiz, Spain *†	30.30	769.6				e.			3		0			0	0			clear.
Bk. O. S. Bushnell, off Cape Spartel, Marocco						e.			2		1		se.	0	0	sm'h		
S. E. J. Spicer, Liverpool, Eng	29.66	753.4	50	10.0		sw.			5		7		sw.	rain	rain			fair.
S. E. B. Sutton, N. 26° 00′, W 42° 45′*†	30.34	770.6	73	22.8	81	ene.			4		3		e.	rain	rain	long	nnw.	clear.
S. Hedwig, N 35° 49′ W. 10° 02′	30.26	768.7	60.4	15.8	93	nne.			2		4		ne.	0	0	3	wnw.	fine.
Bk. Heinrich & Tonio, N. 40° 41′, W. 52° 20′			61	16.1	88	s.			4		10		s.	5 h'r	5 h'r	long	w	cloudy.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.47	773.9				nnw.			2		2		n.	0	0			fair.
S. Henry, N, 38° 53′, W 65° 45′*	29.50	749.3	47.3	8.5		nw.			7-8		10					7	nw.	cloudy.
Bg. John Wesley, N. 23° 15′, W. 82° 00′						s.			1		2		s.	1 h'r	1 h'r	r'gh	ene.	clear.
Schr. John L. Thomas, Hobbies Cays, C. A†	29.98	761 5	77	25.0	91	ne.			1		2		nne.	1 h'r	1 h'r			clear.
Bg. L & W. Armstrong, N. 27° 42′ W. 56° 50′†	30.14	765.5				s.			2		3		s.	½ h'r	½ h'r	sm'h	s.	light rain.
S. S. Laurel, Key West, Fla†	30.14	765.5	63	17.2		nne.			3-4		9		nne.	0	0			cloudy.
Bkt. Levanter, N. 3° 57′. W 29 05′*	29.95	760.7	83	28.3		ene.			1		8		ene.	½ h'r	½ h'r	long	n.	fine.
S. S. Madrid, Malta, Mediterranean†	30.41	772.4			75	calm			0		0			0	0	sm'h		fair.
S. S. P. de Satrastegui, N. 21° 43′, W 76° 22′	30.08	764.0				n			4		4		n.	1 h'r	1 h'r	sm'h		clear.
Bg. Rising Sun, N. 39° 10′, W. 74° 05′ †	30.10	764.5	22	—5.6		nnw.			5		1		nnw.	0	0	mod.	nnw.	clear.
Bk. Rosalie, N. 24° 46′, W. 43° 16′						ne.			5		0			1 h'r	1 h'r	long	n.	clear.
S. Salisbury, N. 37° 05′, E 1° 02′	30.33	770.3	61.9	16.6	92	e.			2		4 k		ene.	0	0	sm'h		fair.
Bk. Tuck Sing, N. 32° 21′, W. 71° 30′*†	30.00	762 0				wnw.			6		8		wnw.	3 h'r	3 h'r	h'vy	wnw.	fair.
S. S. City of Alexandria, N. 25° 03′, W. 80° 02′			66	18.9		nnw.			5							mod.	n.	drizzling.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, S. 34° 45′, W. 57° 34′*	29.76	755.9	72	22.2	90	wnw.			4		10		calm			mod.	nw.	overcast.
U. S. S. Pinta, S. 1° 56′, W. 42° 40′	29.96	761.0	82	27.8	78	ese.			1		10		ese.			sm'h	se.	cloudy.
H. M. S. Amethyst, Montevideo, Uruguay	29.60	754.1	71	21.7	90	nne.			1		9	w.						overcast.
H. M. S. Bonaicea, S. 33° 00′, E. 16° 40′	29.92	760.0	69	20.6		wsw.			2		6	ssw.						d. clouds.
H. M. S. Comus, S. 4° 50′, W. 21° 40′	29.95	760.7	78	25.6	91	ese.			4		3	ene.				2	se.	blue sky.
H. M. S. Opal, S. 7° 27′, E. 12° 44′	29.88	758.9	78	25.6	86	se.			2		5	sse.				2	sse.	d. clouds.
H. M. S. Tyne, S 29° 15′. E. 11° 00	29.93	760.2	67	19.4	89	s.			4		3	s.				2	s.	blue sky.
S. S. Sirius, S. 13° 46′, W. 38° 30′	30.02	762.5				e.			4		3		e.	2 h'r	2 h'r	mod.	ese.	clear.
S. S. Strassburg, S. 10° 00′, W 33° 59′	30.06	763 5	83.0	28.3	63	e.			4-5		1		e.	¼ h'r	¼ h'r	4	e.	clear.
Bk. Chas. Stewart, S. 8° 55′, W. 27° 30′*†	30.07	763.8	80	26.7		e.			6		2		e.	0	0	mod.	e.	clear.
Bg. Daphne, S. 0° 31′, W. 34° 30′*†	29.88	758.9	79	26.1	86	se.			3		6		ese.	4 h'r	4 h'r	sm'h	se.	raining.
Bk. Horace Scudder, S. 8° 21′, W. 5° 21′*†	30.10	764.5	80	26.7		sse.			2		3		sse.	0	0	light	sse.	clear.
S. Parker M. Whitmore, S 22° 20′. W. 22° 35′*†	30.06	763.5	76	24.4		e.			7		10		w.	6 h'r	6 h'r	short	sw.	cloudy.
S. David Stewart, Pernambuco, Brazil †	29.86	758.4	89	31.7		ese.			4		2		se.	0	0			
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.29	769.4	38	3.3	72	calm			0		0			0	0			clear.
U. S. S. Adams, Sitka, Alaska†	29.27	743.4	36	2.2	80	wnw.			1		10							cloudy.
U. S. S. Alert, N. 20° 36′, W. 157° 42′	30.01	762.2	74	23.3	86	nne.			2		10					sm'h		cloudy.
U. S. S. Essex, Canton, China	30.19	766.8	70	21.1	80	calm			0		5							fair.
U. S. S. Juniata, Shanghai, China	30.42	772.7	41	5.0	91	nne.			1		0			0	0			clear.
U. S. S. Monocacy, Shanghai, China	30.39	771.9	42	5.6	74	wnw.			1		10		calm					cloudy.
U. S. S. Ranger, N. 8° 04′, W. 83° 12′	30.00	762.0	80	26.7	87	w.			1		5			0	0			fair.
U. S. S. Richmond, Shanghai, China	30.48	774.2	43	6.1	92	nne.			1		0			0	0			hazy.
H. M. S. Audacious, Hong Kong, China	30.20	767.1	63	17.2	83	ene.			1		0							blue sky.
H. M. S. Cleopatra, off Amoy, China	30.22	767.6	59	15.0	82	sse.			1		4	calm				sm'h		d. clouds.
H. M. S. Champion, Side Saddle Island, China	30.37	771.4	53	11.7	54	nw.			1		0							blue sky.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.94	760.5	77.5	25.3	86	nne.			1		2	sse.						misty.
H. P. M S. Tamega, Macao, China	30.25	768.4	65.3	18.5	80	n.			1		0			0	0			blue sky.
S. S. Oceanic, N. 32° 12′, E. 166° 24′	30.07	763.8	60	15.6	65	nw.			3-5		7		w.	sh'rs	sh'rs	4	nw.	cloudy.
S. S. Oregon, Portland, Oregon†	29.90	759.4	50	10.0	92	calm			0		8		s.					cloudy.
S. S. Alameda, N. 31° 14′, W. 141° 34′†	30.08	764.0	67	19.4	89	s.			4		0			0	0	mod	wnw.	clear.
S. S. Ancon, Cape Sur, Cal†	30.08	764.0	56	13.3	100	nw.			2		0			0	0	light	w.	clear.
S. S. City of Chester, Eureka, Cal †	30.05	763.3	48	8.9	100	calm			0		0?							heavy rain?
S. S. Orizaba, N. 37° 00′, W. 119°? 48′			58	14.4	88	calm			0		0			0	0	large	sw.	clear.
S. S. Queen of the Pacific, Seattle, Wash. Ter†	29.68	753.9	48	8.9	85	se.			3		10		se.	8 h'r	8 h'r			cloudy.
S. S. State of California, N. 41° 06′, W. 124° 30′†	30.05	763.3	50	10.0	86	ssw.			3		10		wsw			long	sw.	cloudy.
S. S. City of Pekin, Yokohama, Japan. †	30.25	768.3	38	3.3	81	nw.			1		0							clear.
S. S. City of Tokio, N. 39° 05′, W. 131° 13′			60	15.6	88	ssw.			5		5		ssw.	0	0	long	w.	fair.
S. S. Colima, San Jose, Guatemala†	30.03	762.7	72	22.2	90	n.			2		3		calm	0	0	small	s.	clear.
S. S. Granada, N. 23° 12′, W. 106° 36′†	30.03	762.7	64	17.8	73	se.			1		0			0	0	light	w.	clear.
S. S. Radnorshire, Hong Kong, China*†	30.20	767.1				ene.			3		8		nne.	0	0	mod.	ene.	cloudy.
District No. 4—South Pacific.																		
U. S. S. Hartford, Valparaiso, Chili	29.92	760.0	64	17.8	89	calm			0		2							clear.
U. S. S. Iroquois, S. 38° 59′, W. 78° 38′	30.20	767.1	60	15.6	71	s.			1		2		sw.			sm'h	sw.	clear.
U. S. S. Lackawanna, Valparaiso, Chili	29.93	760.2	63	17.2	78	calm			0		0							clear.
U. S. S. Onward, Callao, Peru *†	30.10	764.5	67	19.4	95	sse.			2		10		se.			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru*†	30.03	762.7	66	18.9	100	se.			1		8		calm			sm'h		cloudy.
H. M. S. Diamond, S. 33° 52′, E. 151° 14′	29.78	756.4	73	22.8	76	calm			0		8	s.						d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.05	763.3	64	17.8	78	sw.			1		9					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	30.02	762.5	64	17.8		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.37	746.0	60	15.6	82	nw.			2		8							d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.47	748.5	40.5	4.7	91	wnw.			3-6		8	wnw.						snow & hail.
S. S. Australia, S. 8° 46′, W. 169° 46′	30.03	762.7	82	27.8		var.					10		sse.	shr's	shr's	mod.	ese.	heavy rain.
S. S. City of Sydney, S. 34° 20′, E 170° 23′*†	30.12	765.0	65	18.3	89	n.			1		0					light	ne.	clear
Bk. Alpheus Marshall, S. 7° 04′, E. 170° 14′*†	29.74	755.4	83	28.3	91	ene.			1		10		ne.	0	0	light	se.	cloudy.
S. S. George S Homer, S. 8° 10′ W. 122° 15′ *†	30.05	763.3				e.			4		6		e.	0	0	sm'h	se.	fair.
Bk. Godeffroy, S. 51° 29′, W. 82° 31′	29.74	755.4	46.8	8.2	86	w.			3-4		7			2 h'r	2 h'r	r'gh	var.	rainy.
S. St. Francis, S. 46° 00′, W. 86° 30′*†	29.90	759.4	52	11.1	86	ne.			8		10		ne.	4 h'r	4 h'r	mod.	ne.	stormy.
S. St. David, S. 56° 30′, W 76° 25′ *†	29.67	753.0	51.3	10.7	72	sw.			4		9		sw.	2 h'r	2 h'r	mod.	sw.	cloudy.
S. Grecian, S. 5° 20′, W. 126° —′†	30.08	764.0	77	25.0	77	ese.			5		2		ese.	½ h'r	½ h'r	long	s.	clear.
S. Henry Failing, S. 13° 08′, W. 124° 26′*†	30.07	763.8	80	20.7	87	ene.			4		3		ene.	0	0	sm'h	e.	clear.
H. M. S. Espiegle, S. 36°, 50′, E. 176° 15′	29.92	760.0	61	16.1	88	calm			0		5							d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, S. 8° 47′, E. 41° 22′	29.90	759.4	77	25.0	95	s.			3		8		ssw.	0.94	23.9	sm'h		cloudy.
U. S. S. Pensacola, S. 15° 15′, E. 75° 36′*	29.84	757.9	81	27.2	78	se.			4		5		se.	light	light	long	ese.	fair.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	29.87	758.7	82	27.8	71	ne.			1		3	ne.				sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.92	760.0	76	24.4	77	nne.			5		10	calm						overcast.
H. M. S. Orontes, N. 6° 00′, E. 78° 36′	29.98	760.7	80	26.7	100	n.			3		3	n.				1	nne.	d. clouds.
H. M. S. Tourmaline, Choiseul, Madagascar	29.98	761.5	78	25.6	82	ene.			1									d. clouds.
S. S. Galatia, N. 13° 15′, E. 43° 00′†	29.93	760.2	79	26.1	82	sse.			6		0					r'gh	sse.	stormy.
S. S. Benalder, N. 5° 45′, E. 89° — ′ *	29.97	761.2	82	27.8	83	ene.			4-5		8		ene.	sh'rs	shr's	mod.	ene.	cloudy.
S. S. Port Phillip, N. 16° 55′, E. 40° 51′*	29.94	760.5	81	27.2		sse.			4								se.	clear.
S. Carondelet, S. 27° 59′, E. 110° 16′ *†	30.12	765.0				se.			5		4		se.	0	0	sm'h	se.	fair.
S. S. Lepanto, N. 17° 40′, E. 65° 20′	30.03	762.7	75	23.9		ne.			4		5		ne.	0	0	mod.	ne.	fair.

International Chart I. January 6, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 7, 1884,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.28	769.1	64.0	17.8	78	nw.			1		0			0	0	clear	Roziere.
Algiers			30.32	770.2	66.2	19.0	54	wsw.			1		1			0	0	very fair	Aubert.
La Galle			30.32	770.2	46.0	7.8	63	e.			1		3			0	0	pretty fair	Fonfrède.
Tunis			30.37	771.5	57.9	14.4	70	w.			2		2			0	0	fair	Delord.
Tebessa					46.0	7.8	67	n.			2		1			0	0	very fair	Hans.
Geriville					50.4	10.2	50	sw.			3		3			0	0	pretty fair	Forfert.
Laghouat			30.38	771.7	59.7	15.4	62	calm			0		2			0	0	fair	Abraham.
Biskra			30.40	772.1	57.6	14.2	30	calm			0		0			0	0	clear	Gouson.
Australian.																			
Adelaide, South Australia			30.01	762.2	61.7	16.5	51	wsw.	20	8.9			2 k		sw.	0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.14	740.1	29.33	745.0	50.5	10.3	67	wnw.			3		3		nw.	0.16	4.1	clear	Com. I. Short, R.N.
Melbourne, Victoria	29.69	754.1	29.78	756.4	60.3	15.7	51	wnw.	23	10.3			1			0	0	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.94	760.5	37.6	3.1	67	sw.			3		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.94	735.0	29.72	754.9	39.2	4.0	77	sw.	10.5	4.7			10			0.071	1.8		Dr. Wierzbiski
Eperies	29.02	737.0	29.95	760.6	26.2	— 3.2	96	se.			4		10			0	0		Julius Mikolik.
Gratz	28.65	727.7	29.95	760.6	37.4	3.0	50	nw.			2		9			0	0		Andreas Rospini.
Hermannstadt	28.58	726.0	30.10	764.6	26.6	— 3.0	91	se.			1		10			0.126	3.2		Prof. A. Gottschling
Kremsmunster, Obs'y	28.56	725.5	29.94	760.4	40.6	4.8	87	wnw.			2		10			0.079	2.0	gloomy	The Staff.
Lemberg	28.74	730.0	29.76	755.9	33.1	0.6	82	sw.			4		10			0	0		Dr. T. Stanecki.
Pola	29.89	759.1	30.00	762.0	48.9	9.4	98	nw.			1		fg.			0.039	1.0		I. R. Hydrographic Office.
Szathmar	29.47	748.5	29.96	761.0	26.6	— 3.0	89	e.			2		10			0.157	4.0		Joseph Midlinszky, S. J
Szegedin	29.67	753.7	29.97	761.1	36.9	2.7	84	s.			3		10			0.445	11.3		Karl Stancel.
Trieste	29.97	761.1	30.06	763.6	45.1	7.3	99	calm			0		10			0.150	3.8	raining	Royal Academy.
Vienna	29.16	740.6	29.88	759.0	45.9	7.7	76	w.			3		9			0.028	0.7		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.51	724.1	29.92	759.9	41.7	5.4	95	sw.			2		4			0.008	0.2		
Brussels	29.75	755.7	29.96	760.9	46.4	8.0	79	wnw.			3		10		wnw.	0.063	1.6		
Furnes	29.93	760.2	29.95	760.7	48.0	8.9	86	wnw.			1		8			0	0		
Maesseyck	29.78	756.5	29.91	759.7	46.6	8.1	79	nw.			1		10			0.091	2.3		
British.																			
Aberdeen	29.60	751.8	29.70	754.4	44.1	6.7	70	w.	6	2.7			3			0.050	1.3	blue sky	W. Roswell.
Bidston, Liverpool Obs'y			29.85	758.2	42.8	6.0	94	wsw.	4	1.8			10					raining	John Harnup.
Bolton, Sharples	29.30	744.2	29.83	757.7	41.3	5.2	89	sw.	6	2.7			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.40	746.7	29.80	756.9	43.5	6.4	93	sw.			3		8			0.04	1.0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.00	762.0	30.03	762.7	80	26.7	74	ne.			1		9					blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	29.82	757.4	29.94	760.5	43.0	6.1	83	w.			1.0		8					overcast	John McLaren.
Chatham, School M. E.	29.78	756.4	29.96	761.0	46.5	8.1	73	w.			1		3					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.82	757.4	30.06	763.5	45.5	7.5	80	wnw.			4		9					d. clouds	The Staff.
Fort Napier, Natal	27.55	699.8	29.86	758.4	90.2	32.3	45	ne.			1		8					d. clouds	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.88	758.9	87	30.6	88	n			3		0					blue sky	J. W. Smith.
Galway, Queen's College	29.95	760.7	29.99	761.7	40	4.4	82	w.			4		6			0.03	0.8	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.22	767.6	30.27	768.8	60.0	15.6	91	e.			2		8					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.77	756.1	29.95	760.7	44.8	7.1	70	wsw.			3		6					d. clouds	The Staff.
Guernsey	29.73	755.1	30.03	762.7	46.0	7.8	92	wnw.			3		9					showery	A. Collenette, F.R.M.S.
Kew, Observatory	29.92	760.0	29.96	761.0	46.5	8.1	60	w.	11	4.9			7					d. clouds	The Staff.
Leicester, Museum	29.62	752.3	29.88	758.9	45.0	7.2	70	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.24	768.1	30.32	770.1	56.8	13.8	73	nw.			2		8			0	0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.19	766.8	30.24	768.1	69.0	20.6	72	ne.			3		8					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.71	754.6	29.94	760.5	45.2	7.3	78	sw.			2		10					showery	The Staff.
Plymouth	29.93	760.2	30.01	762.2	44.4	6.9	94	sw.			2		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.53	750.0	29.63	752.6	43	6.1	89						10					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.10	764.5	30.17	766.3	43.0	6.1	55	ssw.			1		1			blank	blank	blue sky	W. H. Lyne
Sheffield	29.55	750.6	29.83	757.7	44.5	6.9	80	sw.			3		3			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.73	755.1	29.76	755.9	43.8	6.6	94	wsw.			3		3			0.025	0.6	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.83	757.7	42.9	6.1	98	sw.	11	4.9			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					46.1	7.8	84	sw.			1.5		9					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.18	766.6	30.20	767.1	45.8	7.7	58	nw.	22	9.8			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.89	759.2	30.28	769.1	57.9	14.4	78	w.	8.1	3.9		2 c	5 n		w.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.19	766.8	30.23	767.8	— 5.0	—20.6		nnw.	5	2.2		0	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.06	763.5	30.11	764.8	— 8	—22.2	76	w.	12	5.4		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.07	763.8	30.15	765.8	—14	—25.6	100	w.	5	2.2		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.25	768.3	30.47	773.9	—11.0	—23.9	100	w.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.					—12.5	—24.7		w.			1								H. A. Johnson.
Father Point, Quebec*	30.20	767.1	30.22	767.6	—10	—23.3	78	nw.	15	6.7		5 cs	2 n	calm	calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.62	752.3	30.63	778.0	—29	—33.9	100	sw.	5	2.2		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.21	767.3	30.28	769.1	—10.4	—23.6	100	nw.	5	2.2		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.27	768.8	30.33	770.4	— 3	—19.4	100	nw.	13	5.8		8 k	0	nw.		0	0	fair	J. Chipman Seeley
Granton, Ontario	29.38	746.2	30.63	778.0	2.7	—16.3	95	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.07	763.8	30.22	767.6	— 2	—18.9	65	w.	11	4.9		0	0			0.020	0.5	clear	A. Allison.
Hamilton, Ontario	30.10	764.5	30.53	775.4	4.2	—15.4	87	sw.			1	10 cs	0	w.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.12	765.0	30.50	774.7	0	—17.8	65	n.	1	0.4			10 ks		n.	inap.	inap.	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	29.99	761.7	30.03	762.7	— 0.1	—17.8	97	nw.	5	2.2		5 k	0	nw.		0	0	fair	C. H. Rigby.
London, Ontario	29.61	752.1	30.65	778.5	— 4.0	—20.0	93	calm			0	0	5 s			0.10	2.5	d. clouds	E. B. Reed.
Medicine Hat, N. W. T	27.35	694.7	29.96	761.0	21	— 6.1	91	s.	20	8.9		0	5 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	28.25	717.5	30.48	774.2	—14	—25.6	100	sw.	15	6.7		0	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	30.23	767.8	30.47	773.9	— 7	—21.7	67	w.	19	8.5		0	0			inap.	inap.	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.24	768.1	30.51	774.9	—26.1	—32.3	100	w.				0	0			0	0	blue sky	A. McCill, M. A.
Parry Sound, Ontario*	29.69	754.1	30.47	773.9	4	—15.6	100	se.	5	2.2			10 n		w.	0	0	cloudy	Rev. E. Mosley.
Peterboro, Ontario	29.76	754.4	30.53	775.4	4.8	—15.1	65	w.			1	5 c	0	w.		0	0	fine	Wm. O'Connor, M.A.
Port Arthur	29.76	755.9	30.48	774.2	—13	—25.0	100	sw.	10	4.5		2 c	0	nw.		0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.82	757.4	30.60	777.2	4	—15.6	100	sw.	9	4.0		0	0			0	0	clear	B. Morgan.
Port Stanley, Ontario	29.90	759.4	30.64	778.2	— 2	—18.9	79	w.	5	2.2		0	5 k		w.	0	0	fair	M. Payne.
Qu Appelle, N. W. T	27.64	702.0	30.26	768.6	—17	—27.2		s.	20	8.9		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.97	761.2	30.38	771.6	—12	—24.4	57	sw.	12	5.4		0	0			0	0	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.98	761.5	30.53	775.4	—22	—30.0	60	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B	30.24	768.1	30.29	769.4	— 6	—21.1	92	nw.	4	1.8		0	0			0	0	clear	
St. John, N. B	30.13	765.3	30.29	769.4	— 6.5	—21.4	59	nw.	4	1.8		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			29.76	756.0	14.0	—10.0		nw.			7								The Commerciant.
Saugeen, Ontario*	29.68	753.9	30.46	773.7	17	— 8.3	96	w	14	6.3			10 s			0.18	4.6	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario																			W. Mc Bride, M. A.
Sydney, C. B*	29.94	760.5	30.01	762.2	— 1	—18.3	91	w.	16	7.2		0	8 ks		w.	0.44	11.2	fair	T. C. Hill, C. E.
Toronto, Ontario*	30.12	765.0	30.54	775.7	12	—11.1	83	w.	12	5.4			10 s		w.	inap.	inap.	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.43	747.5	30.63	778.0	1.6	—16.9	83	s.	1	0.4			10 s			0	0	overcast	Prof. N Wolverton, M. A.
Yarmouth, N. S*	30.22	767.6	30.29	769.4	7	—13.9	76	nw.	19	8.5			10 s		nw.	0.05	1.3	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.94	760.5	29.97	761.2	76.0	24.4	93	se.				0	8 n			0	0	threatening.	I. Garfelt.
Cape Town, The Castle	29.84	757.9			74.8	23.8	56	n.				2 c;k	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.84	707.1			90	32.2	32									0	0		J. P. Eustace
Chilian.																			
Coquimbo	29.98	761.6	30.06	763.6	61.7	16.5	89	w.			3	10	0					cloudy	Samuel Redolez.
Iquique	29.97	761.2	30.00	761.9	71.8	22.1	66	sw.			2							foggy	Rafael Moreno.
Niebla	29.55	750.5	29.65	753.2	59.7	15.4	76	e.			1	1 n	0	w.		0.646	16.4	fair	Federico Köhling.
Punta Caldera	29.91	759.8	30.00	762.0	64.4	18.0	71	sw.			1	5 c	0	sw.				fair	Manuel Tobar.
Punta Corona	29.82	757.4	30.00	762.1				n.			2	10	0			0	0	cloudy	Francisco Alvarado.
Valparaiso	29.86	758.4	30.00	761.9	61.7	16.5	81	se.				10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.51	775.0	30.54	775.6	39.2	4.0	71	nw.	8.5	3.8			10			0	0		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.19	741.3	29.23	742.5	40.1	4.5	97	nw.	18	8			10						Oversergent Fischer.
Fanö	29.41	746.9	29.43	747.4	40.8	4.9	89	w.			6		8						Overloerer Lauridsen.
Godthaab, Greenland	28.92	734.5	28.96	735.6	12.2	—11.0	72	ne.			4		1						S. Kleinschmidt.
Stykkisholm, Iceland	29.24	742.7	29.28	743.8	32.0	0.0	87	se.			4		5						A. O. Thorlacius.
Thorshavn	29.55	750.6	29.58	751.2	35.2	1.8	95	calm	0	0			2						Overloerer Bergh.
Vestervig	29.29	744.0	29.39	746.4	37.8	3.2	100	nw.			4		10						Loerer Oesternol.
Egyptian.																			
Cairo	29.99	761.8			59.0	15		nw.	3.6	1.6		0	4 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.67	753.5	30.33	770.4	48.6	9.2	100	wnw.			1		n		nw.	0.098	2.5		M. Labroue, Director.
Alençon, Normal School	29.51	749.5	30.06	763.5	46.0	7.8	94	sw.			1		5 s		ne.	0	0	cloudy	M. Nicot, Director.
Arras, Normal School			29.98	761.4	47.7	8.7	93	w.			1		5		w.	0.031	0.8	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.09	764.2	30.17	766.2	51.8	11	86	n.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.56	750.8	30.13	765.2	45.9	7.7	83	sw.			6		10		w.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.80	756.8	30.07	763.8	47.8	8.8	78	w.			1		10			0.031	0.8	covered	M. Frère Eugène Marlé.
Besançon, Normal School	29.20	741.7	30.11	764.7	47.8	8.8	84	sw.			2		cn		e.	0.268	6.8		M. Gobin, Director.
Bordeaux, Observatory	29.98	761.5	30.25	768.3	52.3	11.3	83	w.			1		10			0.035	0.9	covered	M. Rayet, Director.
Bourges, Normal School	29.55	750.6	30.11	764.9	46.4	8	94	w.			2		kn		w.	0.150	3.8	cloudy	M. Sauvageot, Director.
Brest, Naval Observatory	29.92	759.9	30.16	766.1	46.8	8.2	86	wnw.			4		6		wnw.	0.031	0.8		M. de Kermarrec, Dir.
Caen, Normal School	29.96	760.9	30.03	762.8	48.9	9.4	100	sw.			1–2		5		w.	0.067	1.7	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.70	754.4	30.02	762.6	46.4	8.0	87	sw.			1		10			0.004	0.1	covered	M. Jadot, Director.
Charleville, Normal School	29.48	748.8	30.00	762.0	44.6	7	83	w.			1					0.039	1.0		M. Noël, Director.
Clermont-Ferrand Obs'y	28.81	731.7	30.19	766.9	46.6	8.1	81	nw.			1		10			0.035	0.9	raining	M. Allnard, Director.
Cluny, Normal School	29.33	744.9	30.24	768.1	47.5	8.6	73	w.			1		10		w.	0.110	2.8		M. de Villemontée, Dir.
Commercy, Normal School	29.21	742.0	30.09	764.3	43.9	6.6	92	w.			4		5 n	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.55	699.7	30.11	764.7	50.7	10.5	70	w.			2	2 ck			w.	0	0		M. Jarach, Director.
Gréasque, du Rhone	28.99	736.3	30.12	765.1	54.1	12.3	81	nw.			2		7		nw.	0	0		M. Klun, Director.
Grenoble, Normal School	29.37	746.1	30.16	766.1	46.0	7.8	94	ssw.			1		10			0.047	1.2	covered	M. Ablard, Director.
Guéret, Normal School	28.67	728.1	30.34	770.6	42.3	5.7	78	n.			1		5 n		nw.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.72	754.8	30.28	769.0	51.6	10.9	94	n.			1		10					raining	M. Chauvin, Director.
Lorient, Naval Observatory	30.08	764.1	30.19	766.7	50.0	10.0	62	sw.			2		8	calm	sw.	0.008	0.2	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.11	739.5	30.19	766.7	49.6	9.8	79	ene.			1		8 n		w.	0.205	5.2	misty	M. André, Director.
Mans, Normal School	29.84	758.0	30.16	766.0	46.2	7.9		w.			1		kn		w.	0	0		M. Richard, Director.
Marseille, Observatory	29.86	758.4	30.13	765.2	59.0	15.0	66	w.			1–2		6		w.	inap.	inap.		M. Stephan, Director.
Montlouis	24.99	634.7	29.83	757.7	42.8	6.0	58	sw.	9.4	4.2			8	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.02	762.6	30.14	765.5	55.8	13.2	95	wnw.			2		5		se	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.28	743.7	30.09	764.2	44.6	7.0	83	sw.			1		n		wsw.	0.130	3.3		M. Hasse, Director.
Nantes, Observatory	30.06	763.5	30.22	767.6	48.4	9.1	63	wnw.			0–1		10 n		wnw.	0.012	0.3		M. Larocque, Director.
Perpignan, Observatory	30.09	764.2	30.20	767.1	61.5	16.4	63	nw.	5.6	2.5			7	w.	wsw.	0.063	1.6		Dr. Fines, Director.
Pic-du-Midi, Summit	21.30	541.1			25.5	— 3.6		w.			1		5		w.	0.236	6.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.09	738.8	30.19	766.7	45.3	7.4	100	nw.			1			nw.	nw.	0.035	0.9	foggy	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.17	639.4			31.5	— 0.3	100	n.			4		10			0.535	13.6		M. Allnard.
Rochefort, Naval Obs'y	30.23	767.8	30.26	768.6	51.1	10.6	84	calm			0		2			0.39	10.	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.94	760.4	30.16	766.0	49.5	9.7	84	w.			1		5		ne.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.04	712.3	30.24	768.0	48.0	8.9		nw.			1		10 kn		se.	0	0	covered	M. Seger, Director.
Rouen, Normal School	30.03	762.7	30.08	763.9	48.2	9	92	nw.			1		5	nw.		0.063	1.6	cloudy	M. Mouillot, Dir.
St. Lô, Normal School			29.99	761.8	45.5	7.5	91	w.			1		n	nw.	nw	0	0		M. Delaplanche, Dir.
Saint Maur, Observatory	29.94	760.4	30.10	764.6	47.8	8.8	75	wsw.			1		8		w.	0	0	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.54	750.4	30.27	768.9	50.2	10.1	98	nw.			1		10	nw.		0.370	9.4	covered	M. Bailland, Director.
Tours	30.00	761.9	30.17	766.4	49.6	9.8	76	wsw.			1		10		w.	0.020	0.5	covered	M. de Tastes.
Versailles, Observatory	29.60	751.8	30.09	764.3	46.0	7.8	83	w.			2		5			0	0	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.17	766.3	30.32	770.1	52.9	11.6	95	nw.	5.8	2.6			10 kn			0.142	3.6	covered	M. Cartier, Director.
German.																			
Ansbach	28.49	723.6	29.97	761.3	42.4	5.8	81	w.			6		10	w.		0.102	2.6		Prof. Jnedt.
Bamberg	29.04	737.6	29.88	758.9	42.8	6.0	60	w.			4		7 k		w.	0.079	2.0	raining	Prof. Dr. Hoh.
Berlin	29.37	746.0	29.52	749.7	43.5	6.4	86	w.			1		10			0.083	2.1		Meteorological Institute
Breslau	29.14	740.1	29.66	753.4	43.7	6.5	71	wsw.			4		8			0.197	5.0		Royal University Obs'y
Carlsruhe	29.56	750.8	30.02	762.6	46.8	8.2	75	sw.			4		10	sw.		0.094	2.4		Albert Senz.
Cassel	29.07	738.4	29.78	756.5	44.1	6.7	76	w.			6		10	w.		0.291	7.4		Dr. H. Möhl.
Frankfort-on-the-Main	29.54	750.3	29.91	759.8	46.0	7.8	75	sw.			2		10			0.020	0.5		Physical Society.
Friedrichshafen	28.63	727.2	30.08	763.9	44.6	7.0	78	w.			4		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.45	748.1	29.54	750.4	42.4	5.8	93	wsw.			7		10			0.079	2.0	rain & fog	E. Preller.
Kiel	29.43	747.4	29.44	747.8	43.2	6.2	85	w.			4		10			0.252	6.4		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.28	743.8	29.71	754.5	45.0	7.2	77	sw.			4		9	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.43	747.6	29.63	752.5	44.1	6.7	84	wsw.			5		10			0.043	1.1	raining	Weather Observatory.
Memel	29.22	742.1	29.26	743.2	40.1	4.5	98	w.			6		10 s						Issermann.
Munich	28.13	714.5	29.99	761.7	43.3	6.3	76	w.			4		6	w.		0.008	0.2		Central Station.
Neufahrwasser	29.32	744.0	29.33	745.0	40.3	4.6	94	sw.			2		10			0.114	2.9	raining	A. Lothes.
Neustadt, Palatinate	29.39	746.4	29.91	759.8	47.3	8.5	67	sw.			3		5	sw.		0.039	1.0		Dicknether.
Stuttgart	29.04	737.6	29.95	760.7	46.0	7.8	68	w.			5		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.29	743.9	29.31	744.5	40.5	4.7	97	sw.			5		10			0.126	3.2		Profs. Brandes & Reimer
Greek.																			
Athens	29.82	757.3	30.21	767.4	45.7	7.6		n.			1.0	2	0			0	0	hazy	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.10	764.4	30.14	765.6	72.7	22.6	63	sw.	14.0	6.3			9			0	0	d. clouds	
Deesa	29.62	752.4	30.10	764.5	82.8	28.2	21	nw.	5.0	2.2			1			0	0	d. clouds	
Bombay	30.02	762.4	30.06	763.4	80.2	26.8	71	nw.	11.0	4.9			0			0	0	blue sky	
Poona, Yarrowda	28.20	716.4	30.07	763.8	79.3	26.3	19	e.	9.0	4.0			0			0	0	blue sky	
Belgaum	27.49	698.2	30.03	762.8	78.0	25.6	31	e.	5.0	2.2			0			0	0	blue sky	
Lahore	29.31	744.6	30.08	764.1	66.6	19.2	41	calm	0	0			0			0	0	blue sky	
Roorkee	29.14	740.0	30.07	763.7	65.8	18.8	49	calm	0	0			0			0	0	blue sky	
Agra	29.54	750.2	30.12	765.1	71.2	21.8	38	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	29.04	737.6	30.10	764.5	76.7	24.8	28	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p.sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Jubbulpore	28.74	730.0	30.14	765.5	68.9	20.5	46	calm	0.8	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.78	756.4	30.17	766.4	65.0	18.3	40	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.78	756.5	30.11	764.8	64.6	18.1	68	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.93	760.2	30.12	765.1	66.8	19.3	51	wsw.	2.9	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	28.04	712.2	30.12	764.9	65.6	18.7	38	nw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	30.03	762.7	30.11	764.9	71.7	22.1	62	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	30.09	764.3	30.12	764.9	64.5	18.1	63	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.99	761.7	30.12	764.9	64.4	18.0	60	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	30.02	762.5	30.11	764.9	67.6	19.8	72	wnw.	2.3	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.78	756.4	30.14	765.5	58.9	14.9	88	ne.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.65	727.6	30.13	765.4	69.3	20.7	41	nw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.88	758.8	29.90	759.4	85.6	29.8	56	ene.	4.8	2.2	.....	.....	4	.....	ne.	0	0	d. clouds	
Bellary	28.54	724.9	.....	.....	81.3	27.4	35	ene.	2	0.9	.....	2 c	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.80	756.9	.....	.....	79.5	26.4	68	nne.	0.2	0.1	.....	3	3	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.61	752.0	30.03	762.8	45.0	7.2	84	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. Giovanni Olodig.
Milan	29.53	750.0	30.07	763.8	42.1	5.6	75	w.	2.5	1.1	.....	.....	8	sw.	.....	0	0	.....	Prof. G.V.Schiapparelli
Padua	29.94	760.5	30.06	763.4	40.1	4.5	74	wnw.	0.7	0.3	.....	.....	10	w.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.15	740.5	30.11	764.7	41.2	5.1	75	nw.	3.8	1.7	.....	.....	10	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.82	757.3	30.01	762.3	53.4	11.9	77	calm	0	0	.....	.....	10	s.	.....	0.071	1.8	.....	Prof. G. M. Garibaldi.
Pesaro	29.98	761.6	30.04	762.9	41.7	5.4	89	nnw.	8.1	3.6	.....	.....	10	n.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.72	754.8	29.98	761.5	47.3	8.5	97	w.	.....	.....	2	.....	10	.....	.....	0.177	4.5	.....	Prof. Costantino Pittei
Leghorn	29.87	758.6	29.95	760.8	57.4	14.1	84	sw.	5.6	2.5	.....	.....	6	sw.	.....	0.390	9.9	.....	Prof. P. Monte.
Rome	29.90	759.4	30.08	764.0	56.8	13.8	86	ssw.	6.3	2.8	.....	.....	10	.....	.....	0.480	12.2	.....	Prof. P. Tacchini.
Lecce	29.85	758.2	30.11	764.8	52.5	11.4	83	sse.	9.8	4.4	.....	.....	10	sw.	.....	0.012	0.3	.....	Prof. C. de Giorgi.
Cosenza	29.28	743.6	30.20	767.0	47.8	8.8	73	sse.	1.8	0.8	.....	.....	10	se.	.....	0.028	0.7	.....	Prof. D. Conti.
Cagliari	30.01	762.2	30.21	767.2	55.9	13.3	83	nw.	.....	.....	4	.....	8	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.94	760.5	30.20	767.0	61.2	16.2	64	wsw.	15.4	6.9	.....	.....	5	nw.	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.16	766.0	30.21	767.2	56.3	13.5	61	w.	12.5	5.6	.....	.....	5	wnw.	.....	0	0	.....	Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.61	752.0	30.14	765.5	55.8	13.2	77	sw.	1.3	0.6	.....	.....	10	sw.	.....	0	0	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	29.91	759.7	29.94	760.6	33.7	0.9	96	calm	.....	.....	0	.....	10 n	.....	.....	1.031	26.2	raining.	H. Hattori.
Awomori	29.92	759.9	29.95	760.7	31.5	— 0.3	93	calm	0	0	.....	.....	10 n	.....	.....	0.185	4.7	light snow.	K. Ogawa.
Hakodate	29.95	760.7	29.96	761.0	30.2	— 1.0	92	nnw.	15.6	7.0	.....	.....	10 s	.....	nnw.	0	0	overcast	Y. Souma.
Hamamatsu	29.94	760.5	30.04	763.0	38.5	3.6	75	calm	.....	.....	0	0	0	.....	.....	0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.07	763.7	30.08	764.1	38.7	3.7	91	ne.	5.2	2.3	.....	2 cs	0	w.	.....	0	0	clear	Y. Okamoto.
Kagoshima	30.15	765.8	30.16	766.1	48.9	9.4	74	nw.	.....	.....	2	.....	10 s	.....	w.	0.035	0.9	overcast	
Kanazawa	29.93	760.2	30.04	762.9	43.6	6.4	74	s.	8.9	3.9	.....	4 ck	3 ks	.....	sw.	0.552	14.0	cloudy	S. Endo.
Kioto	29.90	759.4	30.07	763.8	33.0	0.6	91	n.	1.1	0.4	.....	1cs;ck	1 ck	.....	.....	0.010	0.2	clear	M. Tojima.
Kochi	30.06	763.6	30.08	764.1	41.6	5.3	81	se.	2.3	1.0	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.10	764.6	30.13	765.3	41.6	5.3	89	nnw.	.....	.....	2	0	2 ks	.....	w.	0	0	fair	K. Masusaki.
Miyako	29.84	757.8	29.94	760.6	38.0	3.3	75	sw.	1.0	0.4	.....	9c;cs	0	nw.	.....	0	0	cloudy	N.Homo & K.Suwa.
Nagasaki, I. M. Obs'y	29.95	760.7	30.16	766.0	44.3	6.8	77	nw.	3.0	1.3	.....	.....	9 s	.....	nw.	0.020	0.5	cloudy	
Nemuro	29.84	757.9	29.89	759.2	28.0	— 2.2	80	nnw.	2.0	0.9	.....	2 k	0	w.	.....	0	0	clear	A Shibuya.
Niigata	29.93	760.2	29.97	761.2	33.5	0.8	90	se.	4.0	2.1	.....	.....	10 ks	.....	sw.	0.250	6.3	cloudy	Satoo & Tomikawa.
Nobiru	29.94	760.6	29.98	761.0	36.7	2.6	77	wsw.	7.7	3.5	.....	0	0	.....	.....	0	0	clear	Yoshino & Midzushina.
Numadzu	29.96	761.0	30.00	761.9	36.9	2.7	78	ne.	.....	.....	2	0	0	.....	.....	0	0	clear	T.Ohgi.
Osaka	30.07	763.7	30.08	764.1	35.1	1.7	95	n.	2.6	1.2	.....	0	0	.....	.....	0.005	0.1	clear	H. Omura.
Sakai	30.05	763.3	30.06	763.5	38.8	3.8	94	calm	.....	.....	0	.....	9 ks	.....	w.	0.279	7.1	cloudy	Yamawchi & Sakamoto.
Sapporo	29.87	758.6	29.94	760.4	23.9	— 4.5	59	w.	8.6	3.8	.....	.....	10 s	.....	.....	0.025	0.6	covered	S. Kimura.
Shimonoseki	29.94	760.6	30.09	764.3	46.0	7.8	74	sw.	.....	.....	1	ck	8 s	w.	w.	0.216	5.5	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.93	760.2	30.01	762.3	35.2	1.8	86	nne.	6.3	2.8	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.02	762.4	30.07	763.8	37.6	3.1	81	ne.	6.7	3.0	.....	2 cs	0	.....	.....	0	0	clear	K. akai & S.Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.81	757.2	30.00	762.0	81.3	27.4	65	ese.	13.0	5.8	.....	4ck;cs	4ks;kn	wnw.	ese.	0.36	9.1	cloudy	The Staff.
MEXICAN.																			
Leon	24.36	618.7	30.21	767.3	45.7	7.6	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. Leal & M.Pina.
Mazatlan	29.86	758.4	30.12	765.1	64.0	17.8	78	e.	1.6	0.8	.....	0	0	.....	.....	0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.94	760.5	29.94	760.5	45.7	7.6	.....	w.	.....	.....	4	.....	.....	.....	.....	0.012	0.3	.....	
Groningen	29.70	754.3	29.75	755.7	44.2	6.8	.....	nw.	.....	.....	3	.....	.....	.....	.....	0.016	0.4	.....	
Helder	29.78	756.4	29.78	756.4	43.9	6.6	.....	w.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.89	759.3	29.89	759.3	50.0	10.0	78	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Utrecht	29.82	757.5	29.88	758.9	46.6	8.1	95	w	.....	.....	4	.....	8	.....	.....	0.008	0.2	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.95	760.8	.....	.....	76.6	24.8	85	nnw.	0.5	0.2	.....	.....	10	.....	.....	0.106	2.7	.....	Lt.J.J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.31	744.5	29.37	746.1	38.1	3.4	60	nnw.	27	12	.....	.....	4	.....	.....	0.886	22.5	.....	
Brono	29.31	744.4	29.35	745.4	27.7	— 2.4	87	n.	.....	.....	2	.....	8	.....	.....	0.043	1.1	snowing	
Christiania	29.20	741.7	29.35	745.5	30.2	— 1.0	71	nw.	9	4	.....	.....	1	.....	.....	0.130	3.3	.....	
Gjæsvær	29.54	750.3	29.56	750.9	11.5	—11.4	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Lodingen	29.36	745.8	29.41	747.0	16.7	— 8.5	58	ene.	.....	.....	6	.....	0	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr.A.M.R.dos Santos.
Funchal, Madeira	30.16	766.1	30.25	768.4	63.7	17.6	65	ne.	7.4	3.3	.....	.....	10	.....	.....	.....	.....	rain & fog	Capt. D. A. de Cunha.
Lisbon, Observatory	29.99	761.7	30.33	770.3	57.4	14.1	66	ne.	3.1	1.4	.....	.....	8	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.37	771.5	30.45	773.3	60.1	15.6	83	ene.	16.1	7.2	.....	.....	3	.....	.....	0.157	4.0	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
St. Vincent, Cape Verd Ids.	30.02	762.5	30.06	763.4	69.3	20.7	68	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
San Salvador, Congo	28.02	711.8	29.85	758.3	76.1	24.5	81	nw.	.....	.....	1	.....	10	.....	.....	0	0	.....	
Serra da Estrella	25.54	648.7	30.36	771.2	44.4	6.9	72	nnw.	11.9	5.3	.....	.....	10	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.60	726.4	29.74	755.5	17.2	— 8.2	82	s.	11	5	.....	0	8 k	.....	.....	0.126	3.2	.....	Major K. Lasarew.
Archangel	29.18	741.1	29.20	741.6	— 8.0	—22.2	89	e.	4	2	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow
Ashurada	30.54	775.7	30.45	773.3	39.4	4.1	92	e.	2	1	.....	.....	10 n	.....	.....	0.071	1.8	.....	
Astrakhan	30.56	776.3	30.48	774.2	12.0	—11.1	62	wnw.	13	6	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.01	777.6	30.57	776.4	28.4	— 2.0	88	nnw.	22	10	.....	.....	10 kn	.....	.....	0.008	0.2	.....	
Barnaul	29.69	754.0	30.24	768.1	0.7	—17.4	83	calm	0	0	.....	.....	8	.....	.....	0	0	light clouds	Meteorological Office.
Bielosersk	28.63	727.3	29.12	739.7	17.1	— 8.3	93	ssw.	9	4	.....	.....	10 n	.....	.....	0.157	4.0	snowing	
Dorpat	28.81	731.8	29.66	738.0	33.6	0.9	98	sw.	11	5	.....	.....	10 n	.....	.....	0.063	1.6	.....	Observatory.
Ekaterinburg	28.66	728.0	29.72	754.8	— 6.2	—17.9	76	w.	9	4	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	29.51	749.6	29.99	761.7	27.5	— 2.5	79	sw.	22	10	.....	.....	10 s;n	.....	.....	inap.	inap.	.....	
Kasan	29.53	750.0	29.82	757.5	5.2	—14.9	91	s.	9	4	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kem	29.04	737.6	29.09	738.9	8.6	—13.0	92	e.	45	20	.....	.....	10 n	.....	.....	0.059	1.5	.....	
Kertea	30.22	767.6	30.24	768.2	31.8	— 0.1	74	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.04	737.6	29.71	754.5	25.9	— 3.4	95	sw.	13	6	.....	.....	10 n	.....	.....	0.043	1.1	snowing	Observatory.
Koslov	29.36	745.8	29.91	759.7	10.8	—11.8	78	ssw.	22	10	.....	.....	10 s	.....	.....	0.122	3.1	.....	
Lgov	29.20	741.6	29.82	757.5	16.5	— 8.6	91	ssw.	40	18	.....	.....	10	.....	.....	0.024	0.6	snowing	R.I.Ssaweljew, Engin'r.
Libau	29.14	740.1	29.16	740.7	38.5	3.6	95	wsw.	13	6	.....	.....	10	.....	.....	0.098	2.5	.....	L. Quinn.
Lugan	30.06	763.5	30.28	769.2	15.1	— 9.4	40	sw.	22	10	.....	.....	9	.....	.....	0	0	light clouds	Meteorological Obs'y
Moscow	29.04	737.6	29.55	750.6	15.8	— 9.0	68	s.	13	6	.....	.....	10 s	.....	.....	0.020	0.5	.....	Meteorological Obs'y
Nertschinsk	28.00	711.2	30.63	777.9	— 9.8	—23.2	80	calm	0	0	.....	.....	0	.....	.....	inap.	inap.	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	29.99	761 8	30.06	763.6	31.8	— 0.1	94	s.	13	6			10 n			0.059	1.5		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	29.87	758.7	29.96	760.9	—11.4	—24.1	81	w.	4	2		6 ck	0					light snow.	Iwanow.
Pekin, China	30.47	774.0	30.61	777.6	22.5	— 5.3	47	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.96	761.0	30.34	770.6	27.5	— 2.5	83	wnw.	7.8	3.5			10 n						
Petrozavodsk	28.72	729.4	28.92	734.5	19.8	— 6.8	89	s.	16	7			0			0.354	9.0		Dr. Bergmann.
Pinsk	29.06	738.2	29.57	751.1	34.2	1.2	94	sw.	22	10			10 n			0.039	1.0	raining	
Poti	30.24	768.1	30.27	768.9	36.5	2.5	72	e.	9	4		0	0			0.039	1.0		
St. Petersburg	28.94	735.1	28.97	735.7	29.5	— 1.4	90	sw.	18	8			10 n			0.051	1.3		Central Physical Obs'y.
Samarkand	27.67	702.8	30.15	765.9	53.6	12.0	74	sw.	7.8	3.5			10 n					raining	
Semipalatinsk	29.52	749 7	30.23	767.9	13.8	—10.1	80	se.	16	7			0			inap.	inap.		Major Lasarew
Sevastopol	29.97	761.3	30.20	767.0	35.4	1.9	62	s.	27	12			9 n			0	0		
Staroi Bykhov	28.95	735.2	29.53	750.0	20.5	— 6.4	84	se.	7	3			10					light snow.	
Tashkend, Laboratory	28.37	720.6	30.05	763.2	52.9	11.6	41	s.	9	4			10 n						Terch, A. M
Tiflis	28 96	735.6	30.47	773.9	32.0	0.0	34	n.	9	4		0	1 k			0	0		Physical Observatory.
Vernoe	27.51	698.7	30.14	765.6	27.5	— 2.5	59	calm	0	0		0	0						
Viatka	28.85	732 7	29.54	750.3	— 1.1	—18.4	92	sw.	18	8			10						
Vladivostock	30.10	764.5	30.17	766.2	7.0	—13.9	65	n.	13	6		0	3 k;s			0	0		
Warsaw	29.12	739.6	29.55	750.6	37.4	3.0	93	sw.	18	8			10 ks			0.244	6.2	h'vy clouds	Astronomical Obs'y.
Yeniseisk	30.16	766.0	30.48	774.2	— 2.2	—19.0	81	s.	2	1			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.86	733.0	29.44	747.8	14.4	— 9.8	78	ssw.	18	8.0			10 n		s.	0.07	1.8	snow-drift	Prof. S. Fadeieff.
Spanish.																			
Barcelona, Met. Obs'y	30.03	762.8	30.14	765.6	57.0	13.9	83	w.								0	0	cloudy	B. J. Elin.
Bilbao, Met. Obs'y	30.28	769.2	30.34	770.7	53.6	12.0	97	nw.	0.4	0.2			10			0.106	2.7	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.33	694.1	30.41	772.4	42.8	6.0	91	ne.	1.3	0.6			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	28.04	712.2	30.33	770.4	51.1	10.6	72	se.	1.8	0.8		5	0			0	0		The Staff.
Murcia, Met. Obs'y	30.11	764.7	30.23	767.9	54.5	12.5	84	ssw.	0.2	0.1		5	5	e.		0	0	foggy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.46	748.3	30.37	771.5	53.6	12.0	82	n.	11.2	5.0			10			0.004	0.1	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.04	763.0	30.11	764.7	65.0	18.3	93	e.	0.9	0.4		0	k			0.38	9.6	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.06	763.5	30.12	765.0	73.2	22.9	72	e.	2.2	1.0		0	s			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.18	766.5	30.28	769.0	58.8	14.9	87	n.	5.8	2.6		2	0	e.		0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.01	762.3	30.10	764.6	74.8	23.8	90	calm	0	0		2 cs	3 k	sw.	sw.	0	0		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.08	738 5	29.11	739 5	12.2	—11.0	100	n.			4		10					snowing	
Umea	29.16	740.7	29.21	742.0	12.9	—10.6	73	n.			2		2			0	0		
Hernosand	29.18	741.1	29.23	742.2	17.6	— 8.0	83	calm			0		0			0.016	0.4		
Stockholm	28.99	736.3	29.17	740.8	27.3	— 2.6	87	n.			2		10			0.071	1.8		
Wisby	29.05	737.9	29.11	739.4	38.5	3 6	97	wnw.			4		10			0.236	6.0		
Sub-series.																			
Upsala	29.09	738.8	29.17	741.0	24.1	— 4.4	88	nnw.	11.9	5.3			9		n.	blank	blank		H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.20	767.1	39.4	4.1	57	nw.	3	1.5			2		sw.	0	0		The Observatory.
Valona			30.15	765.9	50.5	10.3		ne.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.6	59.5	15.3	60	sw.			1		10 n		sw	1.207	30.7		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.45	773.4	30.54	775 7	6	—14.4	63	w.	2	0.9		0	4 s;sk			inap.	inap.	fair	J. O. Barnes.
Alpena, Michigan	29.78	756.4	30.48	774.2	6.3	—14.3	76	w.	5	2.2		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25 08	637 0	30.20	767.1	19.0	— 7.2	73	e.	1	0.4		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.01	686.0	30.05	763.3	— 9.0	—22.8	61	e.	2	0.9		0	0			inap.	inap.	clear	F. Newman.
Atlanta, Georgia	29.23	742.4	30.46	773.7	19.0	— 7.2	38	e.	16	7.2			10 s			0	0	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.58	776.7	30.59	777 0	7.2	—13.8	52	nw.	7	3.1		0	0			0	0	clear	B. A. Blundon.
Augusta, Georgia	30.38	771.6	30.58	776.7	21	— 6.1	70	ne.	1	0.4		0	3 s			0	0	clear	W. J. Evans.
Baltimore, Maryland	30.61	777 5	30.66	778.7	13	—10.6	44	nw.	5	2.2		0	0			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.58	776.7	30.60	777.2	9.0	—12.8	55	n.	21	9.4		0	0			0	0	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.73	729.7	30.47	773.9	— 4.5	—20.3	66	se.	7	3.1		hz.	4 s			0.10	2.5	fair	A. Pritchard.
Benton, Fort, Montana	27.04	686.8	30.02	762.5	— 4.7	—20.4	100	calm	0	0		0	4 s			0	0	fair	Thomas Morgan.
Bismarck, Dakota	28.46	722.9	30.46	773.7	—17	—27.2	100	e.	8	3.6		0	0			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.45	773.4	30.48	774.2	16.0	— 8.9	74	nw.	25	11.2		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.37	695.2	30.30	769.6	33.5	0.8	83	se.	6	2.7			10 s			0	0	cloudy	James Kenealy.
Boston, Massachusetts	30.26	768.6	30.43	772.9	5.0	—15.0	63	w.	7	3.1		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.86	758.4	29.92	760.0	53.2	11.8	100	s.	2	0.9		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.80	756.9	30.59	777.0	4.5	—15.3	83	sw.	19	8.5			10 n		sw.	0.01	0.3	light snow	Wm. Finn.
Buford, Fort, Dakota	28.04	712.2	30.27	768.8	—12	—24.4	83	e.	9	4.0		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	30.05	763.3	30.47	773.9	7.0	—13.9	89	e.	9	4.0			10 n			0.02	0.5	light snow	W. H. Ray.
Canby, Fort, Washington Ter	29.59	751.6	29.79	756.7	47.6	8.7	98	se.	40	17.9			10 n			0.48	12.2	light rain	J. H. Young.
Cape Henry, Virginia	30.64	778.2	30.66	778.7	19.0	— 7.2	70	n.	16	7.2		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.60	777.2	30.63	778.0	15.0	— 9.4	67	nw.	20	8.9		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.30	744.2	30.00	762.0	50	10.0	96	se.			7		10 n			0.02	0.5	light rain	A. P. Leavitt.
Cedar Keys, Florida	30.32	770.1	30.34	770.6	37.0	2.8	89	n.	18	8.0		0	9 k		sw.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.45	773.4	30.51	774.9	24.0	— 4.4	88	n.	14	6.3		0	8 s		w.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.70	754.4	30.59	777.0	14.0	—10.0	72	ne.	4	1.8		10 cs	0			0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.61	752.1	30.47	773.9	14.0	—10.0	64	e.	9	4.0		9 ck	0	w.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.96	608.6	30.23	767 8	22 3	— 5.4	73	n.	8	3.6		0	0			0.08	2.0	clear	E. McGovern.
Chicago, Illinois	29.81	757.2	30.56	776.2	1.0	—17.2	61	w.	1	0.4		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.58	776.7	30.60	777.2	9	—12.8	76	n.	11	4.9		5 c	0			0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.94	760.5	30.62	777.7	4.3	—15.4	77	ne.	3	1.3			10 s			0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.84	757.9	30.62	777.7	— 2.0	—18.9	81	s.	7	3.1			10 s		s.	0	0	cloudy	W. Line.
Columbus, Ohio	29.73	755.1	30.63	778.0	— 4	—20.0	81	s.	2	0.9			10 s			0	0	cloudy	F. T. Williams.
Concho, Fort, Texas	28.30	718.8	30.32	770.1	14.0	—10.0	100	n	20	8.9		0	0			0	0	clear	C. E. King.
Custer, Fort, Montana	26.75	679.4	30.13	765.3	— 1	—18.3	71	e.	1	0.4		0	0			0.07	1.8	clear	W. J. Daily.
Davenport, Iowa	29.86	758.4	30.57	776.5	0	—17.8	68	n.	1	0.4		3 cs	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	30.26	768.6	30.0	— 1.1	61	n.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.20	716.3	30.01	762.2	50.0	10.0	55	sw.	22	9.8		0	2 ks		w.	0	0	clear	H. S. Blandford.
Deadwood, Dakota	25.25	641.3	30.20	767.1	10.0	—12.2	73	sw.	1	0.5		0	0			0.02	0.5	clear	G. Kingsbury.
Delaware Breakwater, Del.	30.61	777.5	30.63	778.0	12.1	—11.1	66	nw.	14	6.3		hz.	0			0	0	clear	G. A. Martin.
Denver, Colorado	24.68	626.9	30.20	767.1	20.3	— 6.5	78	s	10	4.5		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.63	752.6	30.60	777.2	1	—17.2	72	e.	2	0.9		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.84	757.9	30.60	777.2	9.0	—12.8	55	sw.	3	1.3			10 s			0	0	cloudy	N. B. Conger.
Dodge City, Kansas	27.68	703.1	30.43	772.9	— 2	—18.9	68	nw.	6	2.7		5 cs	0			inap.	inap.	fair	J. E. Lanouette.
Dubuque, Iowa	29.84	757.9	30.61	777.5	—11	—23.9	50	w.	1	0.5			10 s			0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.79	756.7	30.60	777.2	—10.5	—23.6	65	s.	2	0.9		0	0			0	0	clear	E. R. Brace.
Eastport, Maine	30.24	768.1	30.31	769.9	— 6.5	—21.4	59	w.	12	5.4		0	1 s		nw.	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.45	697.2	30.38	771.0	3.5	—15.8	87	n.	17	7.6		0	0			inap.	inap.	clear	J. C. Rickli.
El Paso, Texas	26.33	668 8	30.21	767 3	35.3	1.8	66	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.86	758.4	30.63	778.0	4.0	—15.6	85	s.	6	2.7			10 s			inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.79	756.7	30.51	774.9	— 9.0	—22.8	74	sw.	4	1.8		0	0			0	0	cloudy	L. M. Pindell.
Fort Smith, Arkansas	29.80	756.9	30.30	769 6	14.0	—10.0	80	ne.	3	1.3			10 n			0.22	5.6	light snow	J. B. Campbell.
Galveston, Texas	29.87	758.7	29.91	759.7	50	10.0	86	nw.	8	3.6			10 n		n.	0.24	6.1	heavy rain	E. O'C. Macinerney
Grand Haven, Michigan	29.80	756.9	30.51	774.9	12.0	—11.1	80	e.	3	1.3			10 s			0.08	2.0	cloudy	Joseph E. Mueller.
Grant, Fort, Arizona	25.31	642.9	30.21	767.3	31	— 0.6	68	e.	4	1.8		0	0			0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.56	776.2	30.57	776.5	25.0	— 3.9	73	n.	18	8.0	.....	hz.	3 k	.....	n.	0	0	clear	R. M. Crawford.
Helena, Montana	25.75	654.0	30.13	765.3	.....	.....	.....	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. W. Morrison.
Huron, Dakota	29.03	737.3	30.57	776.5	— 0.8	—18.2	47	se.	6	2.7	.....	.....	8 n	.....	.....	0.02	0.5	light snow	S. W. Glenn.
Indianapolis, Indiana	29.70	754.4	30.54	775.7	— 1.0	—18.3	75	e.	4	1.8	.....	.....	10 s	.....	e.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.99	761.7	30.02	762.5	40.0	4.4	93	n.	30	13.4	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	I. A. Reed.
Jacksonville Florida	30.32	770.1	30.37	771.4	33.5	0.8	74	n.	1	0.4	.....	0	9 s	.....	ne.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.84	757.9	30.54	775.7	0	—17.8	75	ne.	5	2.2	.....	.....	10 s	.....	ne.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.11	764.8	30.13	765.3	65	18.3	87	ne.	14	6.3	.....	1 k	8 ks	ne.	ne.	0	0	cloudy	A. W. Browne.
Kittyhawk, North Carolina	30.60	777.2	30.62	777.7	23.5	— 4.7	67	ne.	20	8.9	.....	0	8 k	.....	ne.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.40	746.7	30.48	774.2	11	—11.7	61	ne.	4	1.8	.....	9 cs	0	.....	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.76	755.9	30.60	777.2	— 2.0	—18.9	100	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	S. C. Emery
Leavenworth, Kansas	29.54	750.3	30.50	774.7	4	—15.6	91	e.	4	1.8	.....	.....	8 n	.....	.....	0.11	2.8	light snow	T. S. Outram.
Lewiston, Idaho	29.17	740.9	30.04	763.0	45.0	7.2	60	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.92	760.0	30.25	768.3	15.0	— 9.4	83	ne.	6	2.7	.....	.....	10 n	.....	.....	0.35	8.9	heavy snow	W. U. Simons.
Los Angeles, California	29.80	756.9	30.20	767.1	46.5	8.1	89	ne.	8	3.6	.....	0	fg.	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.94	760.5	30.53	775.4	3.5	—15.8	72	ne.	12	5.4	.....	.....	10 n	.....	.....	inap.	inap.	light snow	L. M. Dey.
Lynchburg, Virginia	29.90	759.4	30.62	777.7	6.0	—14.4	63	calm	0	0	.....	0	4 s:fg	.....	.....	0	0	fair	Jno. Healy.
Mackinaw City, Michigan	29.76	755.9	30.46	773.7	9.0	—12.8	68	w.	6	2.7	.....	0	6 s	.....	.....	0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.61	777.5	30.62	777.7	19.0	— 7.2	53	n.	13	5.8	.....	0	0	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.37	644.4	30.14	765.5	31.4	— 0.3	62	w.	20	8.9	.....	8 ck	0	w.	.....	0.03	0.8	cloudy	F. Burke.
Marquette, Michigan	29.70	754.4	30.48	774.2	1.0	—17.2	42	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.94	760.5	30.30	769.6	10	—12.2	87	ne.	8	3.6	.....	.....	10 n	.....	.....	1.35	34.3	light snow	D. T. Flannery
Milwaukee, Wisconsin	29.77	756.1	30.57	776.5	—11.0	—23.9	72	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	S. W. Rhode.
Mobile, Alabama	30.20	767.1	30.24	768.1	34	1.1	52	e	9	4.0	.....	.....	10 s	.....	ne.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.16	766.1	30.40	772.1	28	— 2.2	64	e.	10	4.5	.....	.....	10 s	.....	e.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.51	749.5	30.62	777.7	—33	—36.1	100	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.37	593.6	30.00	762.0	—16.5	—26.9	.....	nw.	65	29.1	.....	3 cs	0	.....	.....	0	0	clear	Edwd. A. Beals.
Nashville, Tennessee	29.80	756.9	30.41	772.4	12.0	—11.1	83	ne.	10	4.5	.....	10 cs	0	w.	.....	inap.	inap.	cloudy	L. N. Jesunofszy.
New Haven, Connecticut	30.39	771.9	30.51	774.9	8	—13.3	76	w.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.52	775.2	30.58	776.7	11.0	—11.7	61	w	5	2.2	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.09	764.3	41.5	5.3	92	e.	15	6.7	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	M. Herman.
New York, New York	30.40	772.1	30.59	777.0	9.0	—12.8	55	w.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	H. J. Peurod.
Norfolk, Virginia	30.58	776.7	30.61	777.5	15.0	— 9.4	63	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.28	692.9	30.40	772.1	— 5.4	—20.8	73	calm	0	0	.....	0	0	.....	.....	0.04	1.0	clear	Mc Lean.
Olympia, Washington Ty	29.87	758.7	29.91	759.7	43.0	6.1	93	s.	1	0.4	.....	0	9 s	.....	.....	0.38	9.7	cloudy	J. Dascomb.
Omaha, Nebraska	29.30	744.2	30.57	776.5	0.0	—17.8	74	ne	4	1.8	.....	0	0	.....	.....	0.18	4.6	clear	A. Pollak
Oswego, New York	30.16	766.1	30.51	774.9	19.0	— 7.2	84	se.	2	0.9	.....	.....	10 n	.....	.....	0.13	3.3	light snow	J. G. Linsley.
Palestine, Texas	29.55	750.6	30.13	765.3	28.5	— 1.9	88	ne	9	4.0	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	P. T. Jenkins.
Pensacola, Florida	30.26	768.6	30.29	769.4	34.3	1.3	59	ne.	17	7.6	.....	.....	10 s	.....	se.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.51	774.9	30.62	777.7	12	—11.1	61	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.57	446.3	30.27	768.8	— 2.0	—18.9	100	n.	27	12.1	.....	3 cs	0	nw.	.....	0.01	0.3	clear	H. Hall.
Pittsburg, Pennsylvania	29.78	756.4	30.63	778.0	3.0	—16.1	85	s.	4	1.8	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	— 8	—22.2	58	se.	.....	.....	1	90; k	0	.....	.....	0	0	cloudy	G. A. Garden.
Port Huron, Michigan	29.80	756.9	30.54	775.7	— 3.0	—19.4	65	sw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.34	770.6	30.38	771.6	2.0	—16.7	72	nw.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.85	758.2	29.92	760.0	50.0	10.0	86	s.	6	2.7	.....	.....	10 s	.....	.....	0.23	5.8	cloudy	M. L. Hearne.
Prescott, Arizona	24.87	631.7	30.25	768.3	24.7	— 4.1	74	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	30.41	772.4	30.44	773.2	12.2	—11.0	77	nw.	10	4.5	.....	hz.	0	.....	.....	0	0	clear	O. N. Kitchel.
Red Bluff, California	29.92	760.0	30.28	769.1	45	7.2	100	n.	3	1.3	.....	.....	10 ks	.....	w.	0	0	cloudy	J. R. Williams.
Rio Grande City, Texas	29.82	757.4	30.07	763.8	41.8	5.4	99	nw.	12	5.4	.....	.....	fg.	.....	nw.	0	0	dense fog	L. G. Schultz.
Rochester, N. Y.	29.81	757.2	30.52	775.2	10	—12.2	80	w.	26	11.6	.....	.....	10 s	.....	w.	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.43	747.5	30.00	762.0	48	8.9	80	s	6	2.7	.....	.....	10 s	.....	sw.	0.07	1.8	threatening	J. J. Nanry.
Sacramento, California	30.21	767.3	30.29	769.4	40.0	4.4	98	sw.	4	1.8	.....	.....	fg.	.....	.....	0.35	8.9	dense fog	J. A. Barwick
St. Louis, Missouri	29.85	758.2	30.51	774.9	4.4	—15.3	87	n.	10	4.5	.....	.....	10 n	.....	.....	0	0	light snow	J. H. Weber.
St. Michael, Fort, Alaska	29.46	748.3	29.50	749.3	— 3	—19.4	100	ne.	18	8.0	.....	0	0	.....	.....	0.08	2.0	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.68	753.9	30.62	777.7	—18.5	—28.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.57	751.1	30.55	776.0	—30	—34.4	100	s.	10	4.5	.....	0	0.	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.81	655.6	30.38	771.6	29	— 1.7	67	calm	0	0	.....	.....	10 s	.....	.....	0.26	6.6	cloudy	J. Craig.
San Diego, California	30.08	764.0	30.15	765.8	48.3	9.1	92	ne.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	F. R. Day.
Sandusky, Ohio	29.87	758.7	30.59	777.0	3	—16.1	72	sw.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.57	776.5	30.60	777.2	10.0	—12.2	58	w	20	8.9	.....	0	0	.....	.....	0	0	clear	V. P. Chappel.
Sanford, Florida	30.21	767.3	30.26	768.6	43.0	6.1	93	nw.	5	2.2	.....	0	5 ks	.....	nw.	0	0	fair	J. B. Maroury
San Francisco, California	30.20	767.1	30.27	768.8	45.2	7.3	97	ne.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	N. Gorom.
Savannah, Georgia	30.40	772.1	30.50	774.7	24.5	— 4.2	94	n.	10	4.5	.....	10ck;10s	0	w.	.....	0	0	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.20	665.5	30.06	763.5	33	0.6	71	sw.	23	10.3	.....	4 k	0	nw.	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.90	759.4	30.14	765.5	20.3	— 6.5	70	ne.	12	5.4	.....	.....	10 n	.....	ne.	0.09	2.3	sleeting	E. N. Meekins.
Sitka, Alaska	28.94	735.1	29.01	736.8	40.2	4.6	73	e.	6	2.7	.....	.....	10 n	.....	e.	0.03	0.8	light rain	F. W. Fickett.
Smithville North Carolina	30.56	776.2	30.60	777.2	17.0	— 8.3	73	n.	9	4.0	.....	5 c	1 s	nw.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	30.08	764.0	32	0.0	88	sw.	17	7.6	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.80	756.9	30.53	775.4	5.7	—14.6	82	e.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.11	688.6	30.25	768.3	20.0	— 6.7	58	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.52	749.8	.....	.....	42.7	5.9	96	s.	26	11.6	.....	.....	10 n	.....	s.	1.05	26.7	light rain	R. Connor.
Thomas, Camp, Arizona	27.45	697.2	30.28	769.1	25.4	— 3.7	61	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.86	758.4	30.60	777.2	— 1.5	—18.6	96	sw.	2	0.9	.....	2 c	2 s	sw.	.....	inap.	inap.	fair	A. Buell.
Unalaska, Alaska	29.33	745.0	29.35	745.5	24	— 4.4	73	w.	18	8.0	.....	.....	10 c	.....	w.	0.12	3.0	threatening	Samuel Applegate.
Vicksburg, Mississippi	29.81	757.2	30.08	764.0	34.5	1.4	64	e.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	C. Dill.
Washington, D. C.	30.55	776.0	30.67	779.0	6.0	—14.4	76	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.13	663.7	30.26	768.6	2.5	—16.4	100	w.	2	0.9	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	F. H. Brandenburg.
Wilmington, N. Carolina	30.58	776.7	30.64	778.2	18.0	— 7.8	67	ne.	6	2.7	.....	4 c	hz.	.....	.....	0	0	fair	L. H. Albrecht.
Yankton, Dakota	29.15	740.4	30.57	776.5	— 0.7	—18.2	65	se.	3	1.3	.....	.....	10 n	.....	.....	0.14	3.6	light snow	E. H. Thompson.
Yuma, Arizona	29.99	761.7	30.14	765.5	42.5	5.8	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.50	749.3	29.52	749.8	28.9	— 1.7	83	n.	12	5.4	.....	0	9 k	.....	n.	inap.	inap.	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	.....	nw.	.....	.....	2	0	9 n	.....	n.	0	0	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.04	559.8	.....	.....	49.1	9.5	93	ne	4	2	.....	0	0	.....	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	29.44	747.8	29.60	751.8	— 5	—20.6	100	sw.	38	17.0	.....	.....	10 s	.....	w.	blank	blank	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.08	764.0	69.3	20.7	82	n.	1	0.4	.....	5 c	1 s	.....	.....	0	0	fair	Robert Johnstone.
Paramaribo, S. A.	30.09	764.3	30.09	764.3	77	25.0	86	e.	.....	.....	1	.....	8 ps	e.	.....	0	0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.44	747.8	30.00	762.0	77	25.0	89	calm	.....	.....	0	.....	9 ks	.....	s.	blank	blank	cloudy	Francisco J. Cisnaros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73.4	23.0	90	ne.	.....	.....	1	.....	.....	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	29.94	760.5	30.01	762.2	—36.0	—37.8	.....	sw.	13	5.8	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.98	761.4	29.98	761.6	74.1	23.4	93	nw.	4.5	2.0	.....	.....	10 k	.....	n.	.....	.....	hazy	P. Fasiani.
Naôs, Bay of Panama	29.91	759.8	29.98	761.6	73.8	23.2	96	nw.	.....	.....	4	0	1 n	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from.	
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 44° 12′, W. 50° 20′ †	30.00	762.0				w.			5		6		w.	0	0	h'vy	w.	fair.
S. S. Alvo, N. 16° 00′, W. 79° 57′ *	29.98	761.5	70	21.1		nne.			4		10	ne.		3 h'r	3 h'r	short	ene.	overcast.
S. S. Alleghany, N. 37° 20′, W. 75° 10′ †	30.69	779.5	20	— 6.7		nne.			2		2		ne.	0	0			fair.
Bg. Abbie Clifford N. 41° 18′ W. 69° 20′*†	30.40	772.1	21	— 6.1		nw.			5		3		nw.	0	0	mod.	nw.	clear.
Schr. Anna A. Holton, N. 33° 58′, W. 74° 44′			51	10.6		ne.			2		10		ne.	3 h'r	3 h'r	mod.	n.	overcast.
S. S. Alps, N. 17° 58′, W. 76° 50′..*†	30.08	764.0	82	27.8		e.			1		0			0	0			clear.
S. S. Circassian, N. 54° 00′ W. 25° 25′	29.73	755.1	51	10.6	93	sw			7		10		sw.			5	sw.	overcast.
S. S. Cienfuegos, Nassau, N P Bahama	30.20	767.1	71	21.7		ene.			3		4		e.	0	0			fine
S. S. Caracas, Curacao, Venezuela *†	30.10	764.5	79	26.1	86	e.			4		2		ene.	shr's	shr's	mod	ene.	clear.
S. S. City of Augusta, N. 33° 14′, W. 78° 20′ †	30.61	777.5				nnw.			6		10		wsw.	0	0			cloudy.
S. S. Canada, (Fr) N. 42° 24′, W. 64° 06′	30.21	767.2	21.2	— 6		wnw.			5		10					r'gh	wnw.	snowy.
S. Cornelius, N. 34° 21′. W. 71° 28′*†	30.43	772.9	48.2	9.0		nw.			4		10			4 h'r	4 h'r	cross		cloudy.
Bk. Diamant, N. 41° 05′, W. 48° 35′	30.17	766.3	44.8	7.1	70	nne.			4		10		n.			5	nw.	overcast
S. S. Dorian, N. 34° 01′, W. 17° 00′	30.31	769.9	64	17.8		ene.			4		10			0	0	mod	se.	cloudy.
S. S. Denmark, London, Engl.	29.90	759.4	47	8.3	85	w.			4		8		w.	0	0			cloudy.
S. S. France, N. 49° 38′, W. 12° 57′ *†	30.35	771.0				wnw.			6		2		nw.	0	0	large	nw.	clear.
Bg. Gipsey Queen, Matanzas, Cuba, W. I *†	30.10	764.5				calm			0					0	0			cloudy.
Bk. Ibis, N. 36° 30′, W. 72° 00			40	4.4		nnw.			7		10		nnw.	24 h'r	24 h'r	h'vy	n	snow & fog.
S. S. Iowa, N. 43° 19′, W. 57° 17′ †	30.04	763.0	30	— 1.1		w.			5		5		w.	5 h'r	5 h'r	r'gh	w.	fair.
Schr. Jas Slater, N. 26° 30′, W. 67° 50′*†	30.35	770.9	72	22.2		ne.			6		10		ne.	1 h'r	1 h'r	h'vy		
Bg. Lilian, N. 34° 50′, W. 74° 20′ †	30.44	773.2	43	6.1		nnw.			4		10		ne	6 h'r	6 h'r	r'gh	ne.	light snow.
S. S Lord Gough, N. 51° 23′, W. 13° 10′ *..	30.21	767.3	45	7.2		w.			5		8		w.	0	0	mod.	w.	cloudy.
Bg. L. F. Munson, N. 34° 39′, W. 68° 31′*†	30.36	771.1	54	12.2		nnw.			6		8		nnw.	sh'rs	sh'rs	rg'h	nnw.	squally.
S. S. Mentmore, N. 45° 20′. W. 48° 47′*†	30.00	762.0	36	2.2		w.			9		5		wnw.	8 h'r	8 h'r	h'vy	w.	stormy.
Schr. Maggie Abbott, Cape Haytien, Hayti, W.I*†	30.10	764.5							2		3		ne.	0	0			clear.
Bk. Matthias, N. 30° 40′, W. 46° 20′*†	30.39	771.9	74	23.3		ssw.			4		3		s.	0	0	1	nw.	fair.
S. S. Neckar, N. 40° 51′, W. 64° 45′	30.22	767.6	32	0.0		nw.			6–7		8		nw.			r'gh	nw.	cloudy.
S. S. Nova Scotian, N. 51° 16′, W. 36° 52′	29.38	746.2	42	5.6		s.			7		10		wsw.			high	wsw.	heavy rain.
S. S. Nederland, N. 49° 28′, W. 19° 03′			52	11.1	86	wsw.			6		0			6 h'r	6 h'r	high	var.	hazy.
S. S. Olbers, N. 36° 51′, W. 64° 22′	30.35	770.9	67	19.4	79	n.			4		10		n.	4 h'r	4 h'r	sl't	n.	raining.
S. S. Pavonia, N. 43° 12′, W. 46° 44′	30.04	763.0	46	7.8	92	wnw.			4		7		wnw.	0	0	mod.	nw.	fair
S. S. Picqua, Gibraltar, Mediterranean *†	30.30	769.6	59	15.0	82	e.			4		5			0	0			fair.
S. S. Rhynland. N. 44° 45′, W. 54° —	29.93	760.2	33	0.6	50	w.			6		10		w.	snow	snow	r'gh	w.	overcast
S. S. Romano, N. 47° 56′, W. 21° 14′			57	13.9		w.			5		4		w.	0	0	mod.	w.	fair.
S. S. Rosse, N. 48° 43′, W. 28° 06′			56.5	13.6		ssw.			7		10		ssw.	0	0	long	ssw.	overcast.
Bk. Rosina, N. 25° 21′, W. 55° 21′	30.27	768.8	78	25.6		se.			3		1		s.	0	0	mod.	se.	clear.
S. S. Scythia, N. 41° 42′, W. 61° 40′	30.14	765.5	36	2.2	80	w.			5		5		w.	5 h'r	5 h'r	r'gh	w.	threatening.
S. S. St. Albans, N. 28° —′, W. 63° —′*	30.26	768.6	68	20.0		n			4		10		var.	6 h'r	6 h'r	mod	nw.	cloudy
S. S. Thingvalla, Copenhagen, Denmark			41.0	5		sw.			3									
Bg. Teneriffe, N. 39° 15′, W. 72° 15′	30.54	775.7				nnw.			3		8		n.			4	sw.	cloudy.
Schr. Viola Reppard, N. 39° 01′, W. 71° 38′			29	— 1.7		nw.			5		10		nw.	20 h'r	20 h'r		wnw.	snowing.
S. S. Valencia, N. 29° 46′. W. 70° 30′ †	30.38	771.6	65	18.3	68	n.			4		8		ne.	1 h'r	1 h'r	long	n.	squally.
S. S. Westphalia, Hamburg, Germany	29.53	750.0	44	6.7	92	wnw.			4		10			5 h'r	5 h'r			misty.
S. S. Andes, N. 18° 13′, W. 68° 00′ *†	30.12	765.0	82	27.8		ene.			2					0	0			
Bk. Ariadne, N. 25° 27′, W. 67° 12′	30.29	769.4	78	25.6		nne.			6		9		n.	1 h'r	1 h'r	cross	nnw.	rainy.
Schr. Annie R. Lewis, N 24° 16′, W. 68° 53′ †	30.32	770.1	76	24.4		ne.			4		10	sw.	ene.	2 h'r	2 h'r	long	cross	raining.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.13	765.3				calm			0		3		calm	3 h'r	3 h'r	r'gh	nne.	fine.
U. S. S. Alliance, Port au Prince, Hayti, W. I	30.06	763.5	75	23.9	90	ese.			2		2		calm	0	0	sm'h		clear.
S. S. Britannic, N. 40° 58′ W. 59° 20′ *†	30.08	764.0	40	4.4		nw.			6		10		nw.	3 h'r	3 h'r	high	nw.	squally.
S. S. British Princess, N. 38° 46′ W. 68° 50′†	30.33	770.4	38	3.3		nw.			5		10 k			10 h'r	10 h'r	r'gh	nw.	snowy.
S. S. Chalmette, N. 33° 36′, W. 77° 42′ †	30.67	779.0	38	3.3		n.			4		10		nne.	3 h'r	3 h'r	mod.	n.	cloudy
Schr. Ellen Crusoe, N. 19° 15′ W. 67° 30′ *†	30.18	766.6				e.							ne.	0	0			fine.
S. S. Germanic, N. 48° 28′, W. 40° 04′*†	29.50	749.3	45	7.2	92	wsw.			6		10		wsw.	6 h'r	6 h'r	rg'h	sw.	squally.
S. S. Grecian, N. 10° 14′, W. 27° 25′	29.99	761.7	76	24.4	81	ene.			3		10		ene.	0	0	mod.	ne.	cloudy
Bg. John Welsh, jr., Galveston Bar, Texas†	29.99	761.7				nnw.			7		10		nw.			sm'h		heavy rain.
S. S. Lone Star, N. 24° 25′, W. 83° 20′*†	30.14	765.5	70	21.1		ene.			5		10			1 h'r	1 h'r	r'gh	ene.	heavy rain.
S. S. Lord Clive, N. 46° 16′, W. 47° 26′	30.00	762.0				w.			6		9		w	sh'rs	sh'rs	cross		squally.
S. S. Muriel, N. 35° 10′, W. 76° 48′	30.39	771.9	54	12.2		nw.			4		8		n.	snow	snow	r'gh	nnw	snow squalls
S. S. Ontario, N. 54° 30′ W. 20° 45′	29 78	756.4	46.5	8.1		ssw.			6		2		wsw.	2 h'r	2 h'r	reg.	wsw.	clear.
S. S. Orinoco, New York, N. Y			12	—11.1		nw.			2		2			1 h'r	1 h'r			clear.
Bk. Saga, N. 23° 30′, W. 33° 46′ *†	30.20	767.0	71	21.7		nnne.			6		5			1½ hr	1½ hr	r'gh	var.	fair.
S. Storm King, N. 36° 54′, W. 38° 36′*†	30.39	771.9				nne.			2		5		ne.	0	0	mod	n.	foggy.
S. S. State of Nebraska, N. 41° 29′, W. 63° 08′ *†	30.19	766.8	30	— 1.1		wnw.			6		8		nw.	4 h'r	4 h'r	mod.	nw.	snow squalls
S. S. Samaria, N. 41° 50′, W. 60° 45′	30.14	765.5	31	— 0.6		wnw.			6		9		wnw.	8 h'r	8 h'r	r'gh	wnw.	snowing
S. S. Salerno, N. 50° 32′, W. 1° 58′ †	30.04	763.0	50	10.0		w.			2		10		w.	0	0	sm'h	w.	cloudy.
S. S. St. Laurent, N. 45° 18′. W. 47° 30′	29.95	760.8	32.9	0.5		wnw.			5		8		w.	snow	snow	large	wnw.	cloudy.
U S. S. Swatara, Port au Prince, Hayti, W. I			75	23.9	81	e.			1		0					sm'h		clear.
U. S. S. Tennessee. Port au Prince, Hayti, W. I			74	23.3	81*	e.	7	3.1			1			0	0			clear.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I	30.07	763.8	74	23.3	81	e.			1		2		calm					fair.
S. S. Venetian, N. 42° 36′, W. 63° 17′ *	30.16	766.1	22	— 5.6		w.			6–7		10		w.	5 h'r	5 h'r	r'gh	wnw.	light snow.
S. S. Weser, N. 47° 54′ W. 34° 12′	29.81	757.2	57.2	14.0		sw.			9		10		sw.	6 h'r	6 h'r	h'vy	sw.	light rain.
S. S. Westernland, N. 41° 33′, W. 61° 43′	30.19	766.8	30	— 1.1		nzw.			6		7		wnw.	24 h'r	24 h'r	long	w.	dull.
S. S. City of Berlin, N. 51° 21′, W. 10° 25′			50	10.0		nw.			5									fair.
U. S. Navy Yard, Portsmouth, N. H*	30.44	773.2	2	—16.7	72	nw.	7	3.1			0			0	0			clear.
U. S. S. Kearsarge, Villefranche, France			58	14.4	82	ese.			3		2							clear.
U. S. S. Lancaster, Villefranche, France	30.06	763.5	56	13.3	100	e.			3		2		e.	0	0	long	s.	fair.
U. S. S. New Hampshire, Newport, R. I	30.45	773.4	19	— 7.2	54	wnw.			5		0					sm'h		clear.
U. S. S. Quinnebaug, Leghorn, Italy	29.93	760.2	57	13.9	87	sw.			4		5		w.			sm'h		fair.
U. S. S. Shenandoah, N. 33° 43′. W. 42° 58′			67	19.4	89	ssw.			2		8		sw.			sm'h		fair.
U. S. S. Trenton, Marseilles, France	30.15	765.8	59	15.0	70	nw.			2		2		nw.			sm'h		clear.
H. M. S. Alexandra, Malta, Mediterranean	30.31	769.9	61	16.1	71	wsw.			3		6	wsw.						d. clouds.
H. M. S. Alecto, N. 5° 05, W. 1° 13′	29.83	757.7	84	28.9		calm			0		9					4	s.	overcast.
H. M. Dockyard, Bermuda, Altantic	30.22	767.6				w.			5		6	wnw.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.27	768.8	60.5	15.8	82	wsw.			1		9							d. clouds.
H. P. M. S. Douro, N. 0° 31′, E. 9° 18′	29.84	758.0	87.8	31.0	69	ne.			4		5			1 h'r	1 h'r	1		d. clouds
S. S. British Crown, N. 41° 04′, W. 65° 42′			30	— 1.1		nw.			6		10		nw.	6 h'r	6 h'r	r'gh	nw.	snow squalls
S. S. Ohio, Liverpool, Eng *†	29.86	758.4	44	6.7	92	w.			2		10		w.	2 h'r	2 h'r			cloudy.
S. S. Pennsylvania, N. 48° 50′, W. 34° 00′	29.81	757.2	54	12.2	100	wsw.			9		0?			10 h'r	10 h'r	h'vy	wsw.	overcast?
S. S. Devonia, N. 41° 30′, W. 63° 45′			28	— 2.2		wnw.			6		10		wnw.	5 h'r	5 h'r	short	wnw.	squally.
S. S. O'Carroll, Halifax, N. S.			—2	—18.9		nw.			3		0							clear.
S. S. Wisconsin. N 51° 20′, W. 14° 45′	30.29	769.4	52	11.1		w.			6		8		w.	4 h'r	4 h'r	r'gh	w.	squally.
S. S. Bohemia, N. 53° 33′, E. 9° 53′*†	30.34	770.6				s.			4		10		w.					raining.
S. S. Frisia, N. 46° 20′ W. 44° 27′	29.96	761.0	44	6.7		wnw.			7		8		wnw.	2 h'r	2 h'r	cross	var.	cloudy.
S. S. Archimedes, N. 27° 53′, W. 79° 30′	30.24	768.1				ene.			5		5?		e ;sw	0	0	mod.	ne;e	clear?
S. S. Hevelius, Southampton, Eng *†	30.00	762.0	51	10.6		wsw.			5		9		w.	1 h'r	1 h'r			cloudy.
S. S. Archimede, N. 36° 47′, W. 31° 36′ †	30.54	775.7	68	20.0		ese.			4		2		ese.	0	0	sm'h	nw.	clear.
S. S. Texas, N. 47° 43′. W. 7° 22′ *†	30.15	765.8	47	8.3	7	nw.			5		5?		nw.	0	0	high	nw.	cloudy?
S. S. Erin, London, Eng			50	10.0		sw.			5		4		wnw.	0	0			fair.
S. S Helvetia, N. 50° 11′ W. 25° 35′	29.90	759.4	54	12.2	100	ssw.			6		10			0	0	r'gh	sw.	threatening
S. S. Habsburg, N. 41° 12′. W. 64° 18′						w.			6–7		10		w.	4 h'r	4 h'r	cross	w.	snowing.
S. S. Waesland, off St. Agnes, Eng			47	8.3		wnw.			7		8		nw.	½h'r	½hr	r'gh	nw.	squally.
S. S. W. A. Scholten, N. 49° 56′, W. 5° 38′			49.6	9.8	92	w.			6		8		w.	0	0	4	wnw.	cloudy.
S. S. Saxon, Philadelphia, Pa	30.59	777.0	10	—12.2		w.			1		0							fine.
S. S. Celtic, N. 48° 37′ W. 31° 18′			63	17.2		sw.			8		10		sw.	sh'rs	sh'rs	h'vy	sw.	overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. S. Marengo, N. 39° 52′, W. 70° 36′			31	— 0.6		nw.			6		7		nw.	3 h'r	3 h'r	sli't	nw.	cloudy.
Bg. Alcira, N. 38° 02′, W. 73° 12′	30.51	774.9	29	— 1.7		nw.			4		8		nw.	0	0	mod.	wnw.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.29	769.4	57	13.9	78	n.			3		3			0	0			fair.
Schr. Adda Doane, Savannah Gal†	30.45	773.4				ne.			3		9		ne	0	0			cloudy.
Bk. Bayonnaise, N. 16° 15′, W. 61° 53′			77.9	25.5		e.			5		4		e.	0	0	sm'h	e.	clear.
Schr. Clotilde, N. 25° 16′, W. 89° 03′†	30.06	763.5	73	22.8		se.			4		2		se.	0	0	mod	se.	clear.
Bk. Celestina, Cadiz, Spain*†	30.31	769.9				n.			1		0			0	0			clear.
Bkt. C. S. Bushnell, Tarifa, Spain	30.23	767.8				e.			3		2		se.	0	0	sm'h		
Bg. Daphne, N. 0° 02′, W. 33° 38′			80	26.7	82	sse.			2		2		se.	0	0	sm'h	sse.	clear.
S. E. J. Spicer, Liverpool, Eng.	29.87	758.7	46	7.8	92	ssw.			4		10		sw.					raining.
S. E. B. Sutton, N. 27° 40′, W. 43° 20′ *†	30.42	772.7	72	22.2	85	e.			2		4		e.	0	0	light	nw.	fair.
S. Hedwig, N. 35° 36′, W. 8° 59′	30.26	768.5	61.0	16.1	89	ne.			1		9		ne.	0	0	2	ne.	fine.
Bk. Heinrich & Tonio, N. 41° 16′, W. 49° 00′*†	30.18	766.6	47	8.3	85	nne.			3		10			12 h'r	12 h'r	mod.	var.	overcast.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.15	765.8				ene.			6		10		ene.	1 h'r	1 h'r			stormy.
S. Henry, N. 38° 53′, W. 61° 40*	30.14	765.5	44.6	7.9		wnw.			6–7		7 k			0	0	6	wnw.	cloudy
Bg. John Wesley, Havana, Cuba, W. I.						nne.			2		8		nne.	1 h'r	1 h'r			cloudy.
Schr. John L. Thomas, Hobbies Cays, C. A†	29.98	761.5	78	25.6	86	e.			1		2		ne.	2 h'r	2 h'r			clear.
Bg. L. & W. Armstrong, N. 27° 15′ W. 55° 20′†	30.22	767.6				ssw.			1		2		s.	½ h'r	½ h'r	mod.	se.	light rain.
S. S. Laurel, Key West, Fla†	30.12	765.0	64	17.8		ne.			2–3		8		e.	4 h'r	4 h'r			cloudy.
Bkt. Levanter, N. 2° 22′, W. 29° 06′*	29.99	761.7	76	24.4		e.			3		10		ne.	8 h'r	8 h'r	long	ne.	raining.
S. S. Madrid, N. 36° 10′, E. 14° 08′†	30.35	770.9	60	15.6	82	wnw.			3		3		wnw.	0	0	sm'h		fair.
S. S. P. de Satrastegui, N. 23° 22′, W. 80° 40′	30.16	766.1				ene.			5		9		ene.	2 h'r	2 h'r	mod.	ene.	raining.
Bk. Rosalie, N. 26° 49′, W. 43° 48						ne.			3		0			0	0	light	n.	clear.
S. Salisbury, N. 36° 08′, W. 1° 05′			59.9	15.5	91	n.			4	2 c		n.		0	0	sm'h		clear.
Bk. Tuck Sing, N. 29° 49′, W. 70° 19′*†	30.30	769.6				n.			2		5		nw.	0	0	mod	n.	fair.
S. S. City of Alexandria, N. 30° 21′, W. 79° 43′						nne.			4							h'vy	ne.	showery.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, S. 34° 43′, W. 57° 46′*	30.02	762.5	66	18.9	89	se.			2–3		2					mod.	se.	clear.
U. S. S. Pinta, S. 2° 28′, W. 40° 23′	30.00	762.0	81	27.2	87	e.			1		2		e.			long	ene.	clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.91	759.7	69	20.6	75	s.			3		3	sw.				1	s.	blue sky.
H. M. S. Boadicea, S. 31° 15′, E. 14° 25′	29.95	760.7	69	20.6		ese.			4		3	ese.				4	ese.	blue sky.
H. M. S. Comus, S. 3° 00′, W. 21° 30′	29.94	760.5	77.5	25.3	98	ese.			3		4	ene.				3	se.	d. clouds.
H. M. S. Opal, St. Paul de Loando, Benguela	29.88	758.9	77	25.0	86	nw.			1		0							blue sky.
H. M. S. Tyne, S. 27° 03′, E. 8° 44	29.97	761.2	69	20.8	95	se.			3		10					2	se.	overcast.
S. S. Sirius, S. 18° 21′, W. 38° 52′	30.00	762.0				nne.			2		2		w.	0	0	mod.	var.	clear.
S. S. Strassburg, S. 6° 07′, W. 32° 37′	30.04	763.0	82.0	27.8	76	ese.			4		9		ese.	1 h'r	1 h'r	4	ese.	cloudy.
Bk. Chas. Stewart, S. 6° 00′, W. 27° 30′ *†	30.05	763.3	85	29.4		e.			6		2		e.	0	0	mod	e.	clear
Bk. Horace Scudder, S. 7° 44′, W. 3° 21′*†	30.10	764.5	79	26.1		se.			2		9		sse.	0	0	light	se.	cloudy.
S. Parker M. Whitmore, S. 20° 15′, W. 23° 06′*†	30.00	762.0	76	24.4		ese.			4		10		ne.	8 h'r	8 h'r	short	se.	raining.
S. David Stewart, Pernambuco, Brazil †	29.84	757.9	87	30.6		se.			4		2		se.	0	0			
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan			38	3.3	81	calm			0		0			0	0			foggy.
U. S. S. Adams, Sitka, Alaska †	29.00	736.6	40	4.4	82	wsw.			2		10							light rain.
U. S. S. Alert, N. 20° 36′, W. 158° 36′	30.01	762.2	75	23.9	95	nne.			1		5							fair.
U. S. S. Essex, Canton, China	30.35	770.9	63	17.2	78	n.			3		10							overcast.
U. S. S. Juniata, Shanghai, China	30.51	774.9	42	5.6	66	nw.			2		8		nw.	0	0			cloudy
U. S. S. Monocacy, Shanghai, China	30.52	775.2	42	5.6	58	nw.			2		10		nw.					cloudy
U. S. S. Richmond, Shanghai, China			43	6.1	83	wnw.			2		5		w.	0	0			fair.
H. M. S. Audacious, Hong Kong, China			64	17.8	83	calm			0		2	ne.						blue sky
H. M. S. Cleopatra, off Amoy, China	30.26	768.6	59	15.0	82	ne.			4		8	ne.				2		d. clouds.
H. M. S. Champion, Side Saddle Island, China	30.41	772.4	44	6.7	84	wnw.			0		0							blue sky.
H. M. S. Magpie, N. 5° 30′, E. 100° 17′	29.96	761.0	81.6	27.6	75	calm			0		2	se.						blue sky.
H. P. M. S. Tamega, Macao, China	30.32	770.0	69.8	21.0	82	n.			5		0			0	0			blue sky.
S. S. Oceanic, N. 32° 41′, E. 161° 19′	29.98	761.5	64	17.8	73	s.			4		3		sw.	0	0	4	nw.	clear.
S. S. Oregon, Portland, Oregon †	29.86	758.4	50	10.0	79	calm			0		10		sw.					cloudy.
S. S. Alameda, N. 33° 37′, W. 135° 56′	30.10	764.5	63	17.2	94	ssw.			4		6		sw.	0	0	mod.	w.	fair.
S. S. Ancon, Santa Barbara, Cal†	30.16	766.1	54	12.2	87	ese.			1		0			0	0	mod.	sw.	clear.
S. S. City of Chester, Point Arenas, Cal†	30.26	768.6	53	11.7	86	se.			4		10					h'vy	w.	
S. S. Orizaba, N. 37° 00′, W. 119° 48′†	30.23	767.8	57	13.9	81	calm			0		fg.		w.	0	0	long	sw.	dense fog.
S. S. Queen of the Pacific, Pt. Townsend, Wash. Ter†	29.77	756.1	48	8.9	78	sse.			3		2f		se.	5 h'r	5 h'r	short		cloudy.†
S. S. State of California, N. 46° 00′, W. 124° 10′†	29.87	758.7	55	12.8	68	s.			5		10		s.			cross	ssw.	squally.
S. S. City of Pekin, Yokohama, Japan†	29.99	761.7	35	1.7	80	n.			1		0							clear
S. S. City of Tokio, N. 38° 35′, W. 125° 47′			58	14.4	88	ssw.			5		7		ssw.			long	ssw.	drizzling.
S. S. Colima, Champerico, Guatemala†	30.04	763.0	73	22.8	90	n.			2		4		calm	0	0	small	sw.	fair.
S. S. Granada, N. 20° 40′, W. 105° 58′†	30.05	763.3	74	23.3	86	calm			0		0			0	0	light	nnw.	clear.
S. S. Radnorshire, N. 12° 59′, E. 109° 40′*†	30.19	766.8				nne.			4		8		ene.	c	0	h'vy	nne.	cloudy.
District No. 4—South Pacific.																		
U. S. S. Hartford, Valparaiso, Chili	29.97	761.2	60	15.6	94	ne.			0–1		10f		n.			sm'h	wsw.	clear†
U. S. S. Iroquois, S. 38° 29′, W. 76° 55′	30.04	763.0	62	16.7	83	nnw.			3		8		nw.			sm'h	nw.	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili	29.99	761.7	62	16.7	77	e.			0–1		8		ne.					cloudy.
U. S. S. Onward, Callao, Peru*†	30.11	764.8	67	19.4	89	se.			1		10		se.			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru.*†	30.16	766.1	67	19.4	95	sse.			1		10		s.			sm'h		overcast.
H. M. S. Diamond, S. 33° 52′ E. 151° 14′	29.72	754.9	79	26.1	43	s.			1–3		0	s.						squally.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.09	764.3	62	16.7	83	calm			0		9					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	30.02	762.5	64	17.8		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.34	745.2	50	10.0	86	nw.			3–5		5	nw.						squally
H. M. S. Sylvia, Sandy Point, Patagonia	29.59	751.6	46	7.8	84	calm			0		10							overcast.
S. S. Australia, S. 13° 12′, W. 170° 56′	30.04	763.0	84	28.9		e.					8		s.	2 h'r	2 h'r	mod.	ese.	overcast.
S. S. City of Sydney, Auckland, N. Z*†	30.06	763.5	66	18.9	94	wnw.			1		0					light	ne.	clear.
Bk. Alpheus Marshall, S. 6° 06′, E. 169° 37′ *†	29.72	754.9	81	27.2	91	wsw.			3		10		wsw.	3 h'r	3 h'r	light	se.	cloudy.
S. S. George S. Homer, S. 11° 17′, W. 121° 57′*†	30.05	763.3				e.			4		7		ene.	0	0	mod.	se.	cloudy.
Bk. Godeffroy, S. 53° 13′, W. 60° 27′	29.17	740.9	48.7	9.3	96	ene.			5-6		10			16 h'r	16 h'r	mod.	ne.	rain & fog.
S. St. Francis, S. 45° 30′, W. 87° 00′ *†	29.56	750.8	50	10.0	86	w.			9		8		w.	5 h'r	5 h'r	h'vy	nw.	squally.
S. St. David, S. 56° 52′, W. 71° 04′ *†	29.04	752.8	48.0	8.9	70	w.			2		4		wsw.	0	0	sm'h		fine.
S. Grecian, S. 80 35′, W. 126° 30′ †	30.08	764.6	78	25.6	82	e.			4		3		e.	0	0	long	s.	clear.
S. Henry Failing S. 15° 24′, W. 124° 33′*†.	30.10	764.5	82	27.8	91	e.			3		3		e.	0	0	long	se.	clear.
H. M. S. Espeigle, S. 37° 23′, E. 178° 10′	30.01	762.2	64	17.8	94	calm			0		3					1	n.	d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, S. 10° 57′, E. 43° 09′	29.90	759.4	83	28.3	87	ne.			2		8		e.	0.005	0.1			cloudy
U. S. S. Pensacola, S. 15° 16′, E. 72° 33′*	29.85	758.2	82	27.8	79	e.			2		2		e.	driz.	driz.	long	e.	clear.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	29.86	758.4	81	27.2	74	ne.			2		3					sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.89	759.2	74	23.3	86	n.			4		8	calm						d. clouds.
H. M. S. Orontes, N. 7° 09′, E. 73° 50′	29.98	761.5	81	27.2	100	n.			2		3	calm						d. clouds.
H. M. S. Tourmaline, Mananhar, Madagascar	29.98	761.5	82	27.8	87	se.			2									d. clouds.
S. S. Galatia, N. 11° 57′, E. 45° 50′†	30.00	762.0	78	25.6	86	ene.			4		1		ene.	0	0	mod.	ene.	clear.
S. S. Benalder, N. 6° —′, E. 92° 30′ *	29.92	760.0	83	28.3	75	ene			4-5		8		ene.	sh'rs	sh'rs	mod.	ene.	cloudy.
S. S. Port Phillip, N. 14° 48′, E. 42° 15′	29.95	760.7	76	24.4		sse.			5							h'vy	se.	clear.
S. S. Carondelet, S. 24° 33′, E. 111° 15′*†	29.96	761.0				s.			3		2		s.	0	0	mod	sse.	clear.
S. S. Lepanto, N. 18° 02′, E. 68° 36′	30.00	762.0	76	24.4		ne.			3		2		ne.	0	0	sm'h	ne.	clear.

International Chart I. January 7, 1884. Isobars and Isotherms.

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 8. 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.30	769.7	62.2	16.8	74	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Roxiere.
Algiers	.....	.....	30.25	768.3	52.5	11.4	48	nnw.	.....	.....	7	.....	10	.....	.....	inap.	inap.	covered	Aubert.
La Galle	.....	.....	30.16	766.1	57.2	14.0	71	wnw.	.....	.....	6	.....	5	.....	.....	inap.	inap.	cloudy	Fontrede.
Tunis	.....	.....	30.21	767.4	55.4	13.0	64	w	.....	.....	4	.....	1	.....	.....	0	0	very fair	Delord.
Tebessa	.....	.....	.....	.....	44.6	7.0	85	nw.	.....	.....	7	.....	6	.....	.....	0.087	2.2	cloudy	Hans.
Geriville	.....	.....	.....	.....	50.4	10.2	48	nw.	.....	.....	4	.....	3	.....	.....	0	0	pretty fair	Forfert.
Laghouat	.....	.....	30.39	772.0	59.4	15.2	53	nne.	.....	.....	4	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.33	770.4	54.7	12.6	30	n.	.....	.....	7	.....	4	.....	.....	0	0	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia	.....	.....	30.15	765.8	61.8	16.6	68	ssw.	7	3.1	.....	.....	0	.....	.....	0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.41	747.0	29.60	751.8	54	12.2	81	nw.	.....	.....	4	.....	7	.....	W.	0.01	0.3	cloudy	Com. I. Short, R.N.
Melbourne, Victoria	29.95	760.7	30.04	763.0	60.3	15.7	72	s.	2	0.9	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.53	750.0	30.10	764.4	40.6	4.8	76	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.19	741.5	29.99	761.7	36.3	2.4	82	nw.	9.4	4.2	.....	.....	10	.....	.....	0.102	2.6	.....	Dr. Wierzbiski
Eperies	29.06	738.2	29.98	761.6	32.4	0.2	96	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.82	732.0	30.12	765.1	34.2	1.2	71	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.52	724.3	29.99	761.7	38.3	3.5	82	w.	.....	.....	3	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling
Kremsmunster, Obs'y	28.78	731.0	30.17	766.3	39.2	4.0	84	wnw.	.....	.....	2	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	28.82	732 0	29.84	757.9	34.5	1.4	89	nw.	.....	.....	5	.....	10	.....	.....	0.102	2.6	.....	Dr. T. Stanecki.
Pola	29.81	757.2	29.92	760.0	51.6	10.9	55	ene.	.....	.....	5	.....	10	.....	.....	0.181	4.6	.....	I. R. Hydrographic Office.
Szathmar	29.49	749.0	29.97	761.3	36.0	2.2	84	sw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J
Szegedin	29.75	755.6	30.04	762.9	42.3	5.7	83	nw.	.....	.....	2	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.90	759.5	30.00	762.0	49.8	9.9	55	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	Royal Academy.
Vienna	29.39	746.4	30.12	765.1	42.1	5.6	64	wnw.	.....	.....	3	.....	7	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.72	729.5	30.15	765.8	39.2	4.0	92	w.	.....	.....	2	.....	8	.....	.....	0.098	2.5	fog & mist	
Brussels	30.00	762.0	30.21	767.3	42.4	5.8	80	wsw.	.....	.....	3	.....	10	.....	W.	0	0	.....	
Furnes	30.16	766.0	30.18	766.5	43.2	6.2	79	nw.	.....	.....	1	.....	10	.....	.....	0.004	0.1	.....	
Maeseyck	30.05	763.3	30.18	766.5	43.2	6.2	87	w.	.....	.....	1	.....	10	.....	.....	0	0	dense fog	
British.																			
Aberdeen	29.65	753 1	29.75	755.6	40.3	4.6	91	ssw.	15	6.7	.....	.....	10	.....	.....	0.075	1.9	raining	W. Boswell.
Bidston, Liverpool Obs'y	.....	.....	29.98	761.5	47.5	8.6	98	wsw.	5	2.2	.....	.....	10	.....	.....	.....	.....	raining	John Harnup.
Bolton, Sharples	29.43	747.5	29.97	761.2	42.0	5.6	98	ssw.	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth.
Bradford, Yorkshire	29.55	750.6	29.95	760.7	44.0	6.7	91	sw	.....	.....	3	.....	10	.....	.....	.....	.....	raining	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.02	762.5	30.05	763.3	80	26.7	70	ne.	.....	.....	4	.....	3	.....	.....	.....	.....	blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	30.00	762.0	30.12	765.0	46.6	8.1	92	sw.	.....	.....	0.6	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.98	761.5	30.16	766.1	42.7	5.9	83	w.	.....	.....	1	.....	10	.....	.....	blank	blank	misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.02	762.5	30.25	768.3	51.6	10.9	83	w.	.....	.....	5	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.47	697.7	29.78	756 4	82.5	28.1	65	ne.	.....	.....	1	.....	4	.....	.....	.....	.....	blue sky	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	88	31.1	62	w.	.....	.....	4	.....	3	.....	.....	.....	.....	blue sky	J. W. Smith.
Galway, Queen's College	29.96	761.0	30.00	762.0	51	10.6	86	w.	.....	.....	5	.....	8	.....	.....	0.44	11.2	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.26	768.6	30.31	769 9	64.2	17.9	92	e.	.....	.....	2	.....	8	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A.H.C.
Greenwich, Royal Obs'y	29.98	761.5	30.16	766.1	43.4	6.3	85	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.99	761.7	30.30	769.6	48.5	9.2	98	w.	.....	.....	1	.....	10	.....	.....	0.50	12.7	raining	A. Collenette, F.R.M.S.
Kew, Observatory	30.12	765 0	30.16	766.1	43.7	6.5	88	sw.	12	5.4	.....	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Leicester, Museum	29.79	756.7	30.05	763.3	42.8	6.0	91	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	J. C. Smith.
Malta, Mediterranean	29.87	758 7	29.94	760.5	61.2	16.2	70	sw.	.....	.....	3	.....	10	.....	.....	0	0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	29.98	761.5	30.03	762.7	72.5	22.5	90	se.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.89	759.2	30.12	765.0	43.3	6.3	97	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	The Staff.
Plymouth	30.14	765.5	30.22	767.6	50.0	10.0	94	wnw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	29.50	749 3	29.60	751.8	46.5	8.1	92	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	gloomy	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.98	761.5	30.05	763.3	46.6	8.1	52	sw.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.74	755.4	30.02	762.5	44.1	6.7	96	sw.	.....	.....	1	.....	10	.....	.....	0.01	0.3	drizzling	W. F. Cooper.
Siloth Rectory	29.84	757.9	29.87	758.7	46.6	8.1	99	wsw.	.....	.....	5	.....	10	.....	.....	0.036	0.9	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.97	761.2	44.3	6.8	97	wsw.	13	5.8	.....	.....	10	.....	.....	.....	.....	raining	Rev. S. J. Perry.
Strathfield Turgiss	.....	.....	.....	.....	44.0	6.7	97	sw.	.....	.....	0.5	.....	10	.....	.....	.....	.....	raining	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.15	765.8	30.17	766.3	52.2	11.2	83	wsw.	24	10.7	.....	.....	10	.....	.....	.....	.....	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.62	752.3	30.01	762.2	59.0	15.0	76	sw.	13.7	6.1	.....	3.c	6 n	w.	sw.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.58	776.7	30.62	777.7	— 2.0	—18.9	.....	calm	0	0	.....	10 c	0	.....	.....	0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.40	773.7	30.51	774.9	— 1	—18.3	100	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. J. Caudall, C. E.
Chatham, N. B*	30.48	774.2	30.55	776.0	— 8	—22.2	100	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall, Ontario	30.35	770.9	30.57	776.5	— 9.6	—23.1	100	e.	.....	.....	1	.....	10 s	.....	.....	0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.50	774.7	30.56	776.2	— 2.5	—19.2	.....	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.54	775.7	30.56	776.2	— 3	—19.4	100	nw.	10	4.5	.....	2 k	5 s	nw.	nw.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.03	737.3	29.96	761.0	— 3	—19.4	100	s.	35	15.6	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton, N. B.	30.56	776 2	30.64	778.2	— 1.9	—18.8	81	nw.	4	1.8	.....	0	0	.....	.....	0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.61	777.5	30.67	779.0	7	—13.9	83	nw.	4	1.8	.....	5 cs	0	nw.	.....	0	0	fair	J. Chipman Seeley
Granton, Ontario	29.13	739.9	30.35	770.9	8.7	—12.9	96	e.	2	0.9	.....	.....	10 n	.....	.....	inap.	inap.	snowing	Jas. Grant.
Halifax, N. S*	30.45	773.4	30.60	777.2	5	—15.0	100	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton, Ontario	29.92	760.0	30.30	771.1	11.7	—11.3	89	ne.	.....	.....	1	10 cs	0	ne.	.....	0.100	2.5	snowing	Geo. Dickson, B. A.
Kingston, Ontario*	30.17	766.3	30.54	775 7	15	— 9.4	76	se.	7	3.1	.....	.....	10 ks	.....	se.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.37	771.4	30.41	772.4	7.0	—13.9	77	w.	3	1.3	.....	0	0	.....	.....	0	0	blue sky	O. H. Rigby.
London, Ontario	29.30	744.2	30.30	769.6	9.3	—12.6	98	e.	.....	.....	1	.....	10 n	.....	.....	0.60	15.2	snowing	E. B. Reed.
Medicine Hat, N. W. T.	27.36	694.8	29.67	753.6	33	0.6	85	sw.	20	8.9	.....	0	8 n	.....	.....	0	0	cloudy	John Ewart.
Minnedosa, N. W. T	27.70	703.6	29.84	757 9	— 6	—21.1	100	s.	4	1.8	.....	0	0	.....	.....	0.010	0.3	clear	Rev. J. M. Wellwood
Montreal, Quebec*	30.41	772.4	30.64	778 2	— 2	—18.9	100	se.	7	3.1	.....	.....	10 n	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.36	771.1	30.62	777.7	— 9.1	—22.8	96	w.	.....	.....	.....	.....	10 s	.....	.....	0.80	20.3	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.66	753.4	30.43	772.9	9	—12.8	83	e.	9	4.0	.....	.....	10 n	.....	e.	0.20	5.1	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.61	752 1	30.42	772 7	14.6	— 9.7	88	e.	.....	.....	2	.....	10 k	.....	.....	0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.50	749 3	30.32	770 1	—16	—26.7	100	nw.	4	1.8	.....	0	hz.	.....	.....	0	0	fair	W. P. Cooke.
Port Dover, Ontario	29.53	750.0	30.29	769 4	16	— 8.9	100	e.	7	3.1	.....	.....	10 n	.....	.....	0.25	6.3	light snow	H. Morgan.
Port Stanley, Ontario	29.58	751.3	30.29	769.4	11	—11.7	82	e.	8	3.6	.....	.....	10 n	.....	e.	0.03	0.8	cloudy	M. Payne.
Qu Appelle, N. W. T	27 30	693 4	29.73	755.1	8	—13.3	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	Leslie Gordon.
Quebec, Quebec*	30.25	768.3	30.67	779.0	—10	—23.3	74	calm	0	0	.....	5 ck	0	w.	.....	0	0	fair	Capt. Asse, R. N.
Rockliffe, Ontario*	30.32	770.1	30.54	775.7	2	—16.7	.....	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	threatening	W. H. McIntyre
St. Andrews, N. B.	30.58	776 7	30.64	778 2	— 1	—18.3	91	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.48	774.2	30.64	778.2	0.0	—17.8	84	nw	4	1.8	.....	0	0	.....	.....	0	0	blue sky	G. Hutchinson.
Saint John's, N. F.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. Higgins.
St. Pierre, N. F.	.....	.....	30.12	765.0	17.6	— 8.0	.....	nw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	The Commandant.
Saugeen, Ontario*	29.57	751.1	30.37	771.4	5	—15.0	91	calm	0	0	.....	0	0	.....	.....	0	0	clear	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario																			W. Mc Bride, M. A.
Sydney, C. B*	30.34	770.6	30.41	772.4	6	—14.4	96	w.	10	4.5		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.96	761 0	30.38	771.6	17	— 8.3	87	e.	14	6.3			10 n			0.01	0.3	light snow	Magnetic Observatory.
Woodstock, Ontario	29.18	741 2	30.35	770.9	9.7	—12.4	83	n.	6	2.7			10 n					snowing	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.59	777.0	30.66	778.7	17	— 8.3	67	nw.	10	4.5		0	8 s		nw.	0.03	0.8	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.85	758.2	29.88	758.9	74 5	23.6	93	sw.				0	0			0.010	0.3	fine	I. Garfelt.
Cape Town, The Castle	29.82	757.4			75.0	23.9	49	nnw.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4			87	30.6	36									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.98	761.4	30.06	763.4	63.3	17.4	88	sw.			1	10	0					cloudy	Samuel Redolez.
Iquique	29.98	761.4	30.00	762.1	69.8	21.0	73	sw.			2							cloudy	Rafael Moreno.
Niebla	29.51	749.5	29.61	752.2	62.6	17.0	81	w.			2	0	3 n		w.	0	0	fair	Federico Köhling.
Punta Caldera	29.91	759.8	30.00	762.0	66.2	19.0	81	se.			1	7 c	0	se.				fair	Manuel Tobar.
Punta Corona	29.84	758.0	30.03	762.7				w.			4	8 n	0	sw.		0.433	11.0	cloudy	Francisco Alvarado.
Valparaiso	29.92	759.9	30.06	763.4	63.3	17.4	80	sw.				0	0					clear	Paez-I-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.51	775 0	30.54	775 6	27.9	— 2.3	69	wnw.	4.5	2.0			0			0	0		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.99	761.8	30.04	763.0	34.3	1.3	83	ssw.	9	4			6						Oversergent Fischer.
Fanö	29.98	761.4	30.00	761.9	40.6	4.8	90	wsw.			2		5						Overloerer Lauridsen.
Godthaab, Greenland	28.82	731.9	28.86	733.0	13.3	—10.4	93	nne.			2		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	28.38	720 8	28.42	721.9	33.8	1.0	83	sw.			9		10					snowing	A. O. Thorlacius.
Thorshavn	29.30	744.2	29.32	744 8	41.4	5.2	86	w.	16	7			7						Overloerer Bergh.
Vestervig	29.85	758.1	29.94	760.5	37.4	3.0	96	s.			4		10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.92	759.9			58.6	14.8		w.	2.0	0.9			8			0	0	covered	Albert Ismalun.
French.																			
Agen, Normal School	29.77	756.2	30.43	772.8	43.5	6.4	85	nw.			4			nw.	nw.	0	0	misty	M. Labroue, Director.
Alençon, Normal School	29.61	752.2	30.17	766.2	42.1	5.6	94	sw.			1		5 n			0.04	1.	cloudy	M. Nicot, Director.
Arras, Normal School			30.20	767.0	41.9	5.5	81	w.			2		2	sw.	w.	0.008	0.2	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	29.97	761.2	30.05	763.2	48.2	9	58	nnw.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.72	755.0	30.30	769.7	41.4	5.2	92	nnw.			4		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.03	762.7	30.30	769.7	44.1	6.7	79	w.			1		10			0.122	3.1	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.29	744.0	30.21	767.2	45.1	7.3	80	sw.			1		n		se.	0	0		M. Gobin, Director.
Bordeaux, Observatory	30.18	766 6	30.45	773.5	47.7	8.7	60	n.			1		5			0.150	3.8	cloudy	M. Rayet, Director.
Bourges, Normal School	29.67	753.5	30.24	768.0	41.9	5.5	75	nw.			2				nw.	0.098	2.5		M. Sauvageot, Director.
Brest, Naval Observatory	30.12	765.0	30.36	771.2	55.0	12.8	83	w.			4		6		w.	0.047	1.2		M. de Kermarée, Dir.
Caen, Normal School	30.23	767.8	30.30	769.7	45.7	7.6	100	nw.			1-2		10		w.	0.24	6.	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.89	759.2	30.22	767.6	43.3	6.3	85	wsw.			1		8			0.008	0.2	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.68	753.9	30.20	767.1	39.6	4.2	87	sw.			1		k			0.04	1.		M. Noël, Director.
Clermont-Ferrand Obs'y	28.87	733.4	30.28	769.2	40.3	4.6	95	nnw.			2		10			0.012	0.3	light rain	M. Allnard, Director.
Cluny, Normal School	29.40	746.8	30.31	769.8	45.0	7.2	71	ne.			1		9		n.	0.122	3.1		M. de Villemontée, Dir.
Cominercy, Normal School	29.37	746.1	30.26	768.5	42.4	5.8	91	w.			1		5 n	w.	w.	0.031	0.8	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.41	696.1	29.97	761.2	45.7	7.6	36	w.			1		1 k		se.	0	0		M. Jarach, Director.
Grénsque, du Rhone	28.81	731.7	29.95	760.6	49.6	9.8	69	nw.			2		3		nw.	0	0		M. Kina, Director.
Grenoble. Normal School	29.35	745.6	30.14	765.6	46.4	8	77	nw.			6		n		nw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.86	733.1	30.55	775.9	36.0	2.2	93	nw.			1		10 n		n.	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.90	759.5	30.48	774.3	46.8	8.2	65	wnw.			3		5 kn		wnw.	0.563	14.3	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.33	770 3	30.43	772.9	52.5	11.4	73	wsw.			6		8	sw.	wsw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.15	740 4	30.24	768.1	41.9	5.5	79	n.			4	5 ck			n.	0.020	0.5	cloudy	M. André, Director.
Mans, Normal School	30.08	764.0	30.40	772.1	42.6	5.9		w.			1		10 n			0.087	2.2	raining	M. Richard, Director.
Marseille, Observatory	29.69	754 0	29.96	760.9	49.1	9.5	60	nw.			2		4		nne.	0	0		M. Stephan, Director.
Montlouis	24.85	631.1	29.69	754 1	26.6	— 3.0	96	nw.	20.6	9.2			10			0.461	11.7		M. Cave for Dr. Fines.
Montpellier, Normal School	29.94	760.5	30.05	763 3	51.8	11	68	nnw			6		1		wsw.	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.45	748.1	30.26	768.7	41.7	5.4	88	wnw.			1		n		nw.	0.118	3.0		M. Hasse, Director.
Nantes, Observatory	30.30	769.6	30.46	773.7	42.1	5.6	92	wnw.			1		10 n		wnw.	0.020	0.5	rainy	M. Larocque, Director.
Perpignan, Observatory	30.09	764.3	30.21	767.3	46.0	7.8	56	nw.	28.0	12.5			8		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.19	538.3			6.8	—14.0		w.			4-6		5		w.	2.087	53.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.04	737.5	30.13	765.3	44.6	7	69	nw.			1			nw.	nw.	0	0		M. Tailleu.
Puy de Dôme Obs'y, Summit	25.24	641.0			26.6	— 3.0	100	n.			4		10			0.823	20.9	fog & snow	M. Allnard.
Rochefort, Naval Obs'y	30.43	772.9	30.46	773.7	47.1	8.4	78	nw.			2		10			0.28	7.	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.16	766.0	30.38	771.6	45.3	7.4	86	nw.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.08	713.3	30.31	769.9	38.3	3.5		nw.			2		10 kn		se.	0.335	8.5	raining	M. Seger, Director.
Rouen, Normal School	30.25	768.3	30.30	769.5	43.2	6.2	97	e.			1		5			0.220	5.6	cloudy	M. Mouillot, Dir.
St. Lô, Normal School			30.18	766.6	45.0	7.2	91	nw.			1		10		n	0.016	0.4	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.16	766 0	30.32	770.2	43.2	6.2	70	nw.			1								M. Renou, Director.
Toulouse, Observatory	29.67	753.5	30.40	772 1	42.4	5.8	81	nw.			8		10	nw.		0.244	6.2	covered	M. Baillaud, Director.
Tours	30.19	766.9	30.37	771.4	45.7	7.6	80	w.			1		5	nnw.	nw.	0.012	0.3	cloudy	M. de Tastes.
Versailles, Observatory	29.81	757.1	30.30	769.6	41.7	5.4	81	nw.			1					0.157	4.0		Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.36	771.2	30.51	775 0	45.7	7.6	91	w.	4.0	1.8			9 kn		nw.	0.402	10.2		M. Cartier, Director.
German.																			
Ansbach	28.71	729.3	30.22	767.6	39.6	4.2	77	nw.			4		4	nw.		0.028	0.7		Prof. Jnedt.
Bamberg	29.32	744.7	30.17	766 2	41.0	5.0	70	nw.			2		5 ks		w.	0	0		Prof. Dr. Hoh.
Berlin	29.95	760.8	30.10	764.6	38.1	3.4	83	n.			1		9			0.106	2.7		Meteorological Institute
Breslau	29.53	750.0	30.06	763.5	36.3	2.4	77	nw.			4		10			0.067	1.7		Royal University Obs'y
Carlsruhe	29 76	755 9	30.23	767.9	44.6	7.0	80	s.			1		5	w.		0	0		Albert Senz.
Cassel	29.41	746.9	30.12	765.0	38.8	3.8	81	s.			1		8	s.		0.098	2.5		Dr. H. Möhl.
Frankfort-on-the-Main	29.85	758.1	30.23	767.8	41.7	5.4	85	sw.			1		10			0.035	0.9		Physical Society.
Friedrichshafen	28.76	730.6	30.23	767.9	39.2	4.0	90	sw.			2		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.98	761.6	30.08	763.9	40.3	4.6	98	wnw.			2		10			0.047	1.2	dense fog	E. Preller.
Kiel	30.01	762.3	30.03	762.7	40.1	4.5	94	calm			0		8			0.039	1.0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.71	754.5	30.14	765.5	40.6	4.8	81	w.			3		2	nw.		0.035	0.9		H. Leppig, Asst.
Magdeburg	29.91	759.8	30.11	764 8	42.6	5.9	83	w.			1		10			0.039	1.0		Weather Observatory.
Memel	29.85	758.2	29.90	759 4	31.1	— 0.5	57	nw.			5		10 ks						Issermann.
Munich	28.34	719.8	30.21	767.4	38.7	3.7	80	calm			0		9	w.		0	0		Central Station.
Neufahrwasser	29.98	761.4	29.99	761.8	34.0	1.1	55	sw.			3		7			0.004	0.1		A. Lothes.
Neustadt, Palatinate	29.61	752 0	30.14	765.5	45.0	7.2	70	w.			4		4	w.		0	0		Dicknether.
Stuttgart	29.24	742.7	30.16	766.1	42.3	5.7	90	sw.			1		9	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.00	761.9	30.02	762.5	35.1	1.7	90	n.			2		3 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.70	754.4	30.10	764.4	53.2	11.8		n.			1.0	3	0			0	0	hazy	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.04	763.0	30.09	764.3	73.7	23.2	57	wsw.	19.0	8.5			0			0	0	blue sky	
Deesa	29.60	751.8	30.07	763.8	83.7	28.7	18	nnw.	4.0	1.8			0			0	0	blue sky	
Bombay	30.00	761.9	30.03	762.8	78.7	25.9	68	nnw.	14.0	6.3			0			0	0	blue sky	
Poona, Yarrowda	28.18	715.7	30.04	763 1	79.5	26.4	17	ne.	8.0	3.6			0			0	0	blue sky	
Belgaum	27.47	697.7	30.01	762.2	77.8	25.4	18	ne.	11.0	4.9			2	w.		0	0	d. clouds	
Lahore	29.32	744.8	30.10	764.5	62.4	16.9	56	calm	0	0			7			0	0	d. clouds	
Roorkee	29.16	740 6	30.09	764 2	66.8	19.3	37	calm	0	0			0			0	0	blue sky	
Agra	29.54	750.2	30.12	765.0	70.7	21.5	38	w.					0			0	0	blue sky	
Nagpur	29.00	736.6	30.06	763.5	76.0	24.4	31	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.73	729.6	30.12	764.9	70.9	21.6	34	calm	0.8	0.4			0			0	0	blue sky	
Lucknow	29.72	755.0	30.12	765.0	66.3	19.1	52	calm	0	0			0			0	0	blue sky	
Allahabad	29.78	756.5	30.11	764.8	63.7	17.6	63	calm	0	0			0			0	0	blue sky	
Patna	29.91	759.7	30.10	764.6	65.8	18.8	54	wnw.	1.9	0.8			0			0	0	blue sky	
Hazaribagh	28.02	711.7	30.10	764.5	63.7	17.6	36	nnw.	6.0	2.7			0			0	0	blue sky	
Cuttack	29.98	761 5	30.06	763.6	73.0	22.8	63	e.	0	0			0			0	0	blue sky	
Calcutta, Alipore	30.04	763 0	30.06	763.5	66.1	18.9	66	calm	0	0			0			0	0	blue sky	
Dhubri	29.96	761.0	30.09	764.2	65.6	18.7	69	calm	0	0			1			0	0	d. clouds	
Chittagong	30.02	762.4	30.11	764.8	67.1	19.5	67	w.	2.4	1.1			0			0	0	blue sky	
Sibsagar	29.73	755.2	30.09	764.2	58.7	14.8	85	ne.	1.0	0.5			0			0	0	blue sky	
Jeypore	28.64	727.5	30.12	765.0	71.4	21.9	37	nw.	1.7	0.8			1	nw.		0	0	blue sky	
Zanzibar	29.89	759.1	29.91	759.7	82.0	27.8	63	ene.	5.4	2.4			8		n.	0.14	3.6	d. clouds	
Bellary	28 53	724.6			82.0	27.8	25	e.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.79	756.7			81.1	27.3	48	ne.	0.3	0.1		3	3			0	0	d. clouds	
ITALIAN.																			
Udine	29.60	751.9	30.03	762.7	46.9	8.3	47	n.	0.7	0.3			10			0	0		Prof. Giovanni Clodig.
Milan	29.50	749.3	30.04	763.1	40.1	4.5	84	nw.	2.5	1.1			9			0	0		Prof. G.V.Schiapparelli
Padua	29.87	758.6	29.98	761.5	44.6	7.0	57	nne.	13.0	5.8			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.11	739.3	30.06	763.5	38.8	3.8	87	n.	0	0			10			0	0		Prof. F. F. Denza.
Genoa	29.71	754 5	29.99	759.5	45.5	7.5	65	n.	11.2	5.0			10	ne.		0.035	0.9		Prof. G. M. Garibaldi.
Pesaro	29.93	760.3	29.98	761.6	41.7	5.4	94	nw.	8.1	3.6			10	ne.		1.154	29.3		Prof. Luigi Guidi.
Florence	29.57	751.1	29.84	757.8	44.6	7.0	72	ne.			2		10			0.575	14.6		Prof. Costantino Pittei
Leghorn	29.70	754 3	29.78	756.5	48.4	9.1	73	ne.	13.6	6.1			10	ne.		0.189	4.8		Prof. P. Monte.
Rome	29.61	752.0	29.79	756 6	52.0	11.1	95	sw.	1.8	0.8			10			0.945	24.0		Prof. P. Tacchini.
Lecce	29.69	754.0	29.95	760.6	57.6	14.2	80	sse.	13.6	6.1			9	se.		0	0		Prof. C. de Giorgi.
Cosenza	29.12	739.6	30.04	763.0	54.0	12.2	76	se.	1.8	0.8			7	se		0	0		Prof. D. Conti.
Cagliari	29.65	753.2	29.85	758 2	50.9	10.5	81	nw.			2		10			0.020	0.5		Prof. A. Pacinotti.
Palermo	29.66	753.3	29.91	759.8	59.7	15.4	65	sw.	11.2	5.0			10	wsw.		0	0		Prof. G. Caccialore.
Syracuse	29.93	760.3	29.98	761.5	56.5	13.6	67	s.	5.6	2.5			10	sw.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.35	745.4	29.87	758.8	54.1	12.3	88	ssw.	1.3	0.6			10			0.122	3.1		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.75	755.7	29.78	756.6	29.0	— 1.7	100	calm			0		10 n			0.177	4.5	snowing	H. Hattori.
Awomori	29.71	754.6	29.75	755.6	26.9	— 2.8	91	w.	6.8	3.0			10 n			0.349	8.9	snowing	K. Ogawa.
Hakodate	29.73	755 0	29.74	755 3	27.2	— 2.7	88	n.	13.2	5.9		5 cs	0			0	0	fair	Y.Souma.
Hamamatsu	29.75	755 6	29.85	758.1	36.7	2.6	79	w			6	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.11	764 8	30.13	765 2	35 8	2.1	61	sw.	6.0	2.7			9 ck		nw.	0.011	0.3	cloudy	Y. Okamoto.
Kagoshima	30.21	767 3	30.22	767.6	36.0	2.2	74	n.			2	0	2 s		nw.	0.047	1.2	clear	
Kanazawa	29.84	758.0	29.95	760.8	34.0	1.1	89	nw.	5.2	2.3			10 n			2.320	58.9	snowing	S. Endo.
Kioto	29.80	757.0	29.98	761.4	35.2	1.8	83	sw.	2.6	1.2			10ck;s		nw.	0.077	2.0	cloudy	M. Tojima.
Kochi	30.06	763.6	30.08	764.1	33.0	0.6	71	w.	3.1	1.3			0			0	0	clear	K. Kusunose.
Miasaka	30.16	766 0	30.10	766.7	34.6	1.4	59	wnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.60	751.8	29.72	754 8	30.6	— 0.8	77	nw	1.0	0.4			9 s		ne.	0.414	10.5	cloudy	N.Honno & K.Suwa.
Nagasaki, I. M. Obs'y	30.02	762.5	30 24	768.1	37 8	3.2	68	nw.	3.3	1.4			10 n			0.450	11.4	hailing	
Nemuro	29.63	752.6	29.68	754.1	26.8	— 2.9	61	nw.	12.0	5.4		3 c	0	nw.		0	0	clear	A Shibuya.
Niigata	29.81	757 2	29.85	758.2	37.0	2.8	68	n.	7.3	3.2			10s;ks		w;n.	0.580	14.7	covered	Satoo & Tomikawa.
Nobiru	29.71	754.5	29.72	754.9	29.6	— 1.3	81	n.	11.7	5.2		0	0			0.135	3.4	clear	Yoslino & Midzushina.
Numadzu	29.70	754.4	29.74	755.3	37.7	3.2	69	e.			4	0	0			0	0	clear	T.Ohgi.
Osaka	29.98	761.6	30.00	762.0	36.2	2.3	65	wsw.	21.8	9.7		1 cs	0	nw.		0	0	clear	H. Omura.
Sakai	30.02	762.5	30.03	762.7	35.0	1.7	78	wsw.			2		10 ks		w.	0.413	10.5	cloudy	Yamawchi & Sakamoto.
Sapporo	29.67	753.6	29.74	755.4	17.7	— 7.9	86	s.	7.6	3.4		0	7 s		w.	0.032	0.8	cloudy	S. Kimura.
Shimonoseki	30.03	762.6	30.17	766.3	36.0	2.2	100	wnw.			4		10 n			0.114	2.9	snowing	S. Sakano.
Tokei Obs'y, Yeddo	29.66	753 4	29.74	755.3	40.6	4.8	60	nnw.	17.1	7.6		0	0			0	0	clear	The Staff.
Wakayama	29.98	761.4	30.03	762.8	37.8	3.2	60	nw.	16.0	7.2		0	3 ck		nw.	0	0	clear	K. akai & S.Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.83	757.7	30.01	762.2	81.5	27.5	67	ese.	6.5	2.9		2cs;c	6kn;ks		se.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.40	619.7	30.35	770.9	39.6	4.2	79	calm	0	0		0	0			0	0	clear	M. Leal & M.Pina.
Mazatlan	29.85	758.1	30.11	764.8	65.5	18.6	61	nne.	1.6	0.8		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.19	766 8	30.19	766.8	43.0	6.1		w.			3					0	0		
Groningen	30.08	764.0	30.13	765 4	40.6	4.8		sw.			1					0	0		
Helder	30.08	764.1	30.08	764 1	43.5	6.4		w.			1					0.020	0.5		
Hellevoetsluis	30.15	765.9	30.15	765.9	49.1	9.5	89	wsw.			3					0.024	0.6		
Utrecht	30.10	764.6	30.10	766.0	44.1	6.7	91	w.			2		10			0.004	0.1	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.91	759.8			75.2	24.0	91	w.	0	0			9			0.370	9.4		Lt.J.J. Roptman,R.D.N
NORWEGIAN.																			
Bergen	29.70	754.3	29.76	755 9	37.4	3.0	83	sse.	22	10			10					raining	
Brono	29.86	758 4	29.90	759 4	18.5	— 7.5	49	e.			2		0			0	0		
Christiania	29.78	756.3	29.93	760.3	21.0	— 6.1	87	ene.	9	4			1			0	0		
Gjæsvær	29.75	755.7	29.76	756.3	28.0	— 2.2		wnw.			7		0			0.244	6.2		
Lodingen	29.89	759.2	29.94	760.4	20.5	— 6.4	58	se.			6		0			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr.A.M.R.dos Santos.
Funchal, Madeira	30.14	765.5	30.22	767.7	61.3	16.3	76	ene.	7.4	3.3			10			0.394	10.0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.11	764 7	30.45	773.4	53.1	11.7	62	ne.	10.8	7.5			1			0	0		The Staff.
Ponta Delgada, Azores	30.34	770.6	30.41	772 4	62.6	17.0	81	se.	8.7	3.9			3			0	0		
Saint Paul de Loanda																			
St. Vincent, Cape Verd Ids.	29.96	761.0	30.00	761.9	69.8	21.0	75	calm			0		1			0	0		
San Salvador, Congo	28.07	713.0	29.91	759.6	77.4	25.2	75	w.			3		10			0.709	18.0		
Serra da Estrella	25.65	651.6	30.49	774.4	45.0	7.2	31	ene.	18.1	8.1			2			0	0		
RUSSIAN.																			
Akmolinski	29.16	740 7	30.39	772.0	— 6.7	—21.5	85	w.	11	5		0	0			0.024	0.6		Major K. Lasarew.
Archangel	29.78	756.4	29.80	756 9	—10.5	—23.0	87	ene.	4	2		0	0			0	0		Capt. Seelwerstow
Ashurada	30.38	771.6	30.28	769.2	43.7	6.5	83	nnw.	9	4		0	3 k			0	0		
Astrakhan	30.38	771.7	30.30	769.7	26.1	— 3.3	68	ese.	9	4			10			0	0		Capt. Wisganow.
Baku	30.30	769 7	30.26	768 5	37.0	2.8	67	ssw.	13	6		0	5 ks			0	0		
Barnaul	29.50	749 2	30.02	762.6	24.4	— 4.2	95	sw	13	6			10			0.118	3.0		Meteorological Office.
Bielosersk	28.78	731 1	29.28	743 7	12.9	—10.6	80	calm	0	0			10 n			0.035	0.9	snowing	
Dorpat	29.43	747.6	29.70	754.3	14.5	— 9.7	71	nw.	9	4			10ks;n			0.020	0.5		Observatory.
Ekaterinburg	28.77	730.7	29.81	757.2	7.0	—13.9	74	sw.	36	16			10			0	0		Meteorological Obs'y.
Elissawetgrad	29.38	746.2	29.85	758.1	32.2	0.1	76	calm	0	0		2 cs	0			0	0		
Kasan	29.30	744 1	29.58	751.2	24.3	— 4.3	89	ssw.	11	5			10			0	0		Observatory.
Kem	29.71	754 6	29.76	755 9	14.7	— 9.6	74	nw.	22	10			10 k			0	0	h'vy clouds	
Kerten	30.01	762.2	30.03	762.8	42.1	5.6	73	calm	0	0			9 n			0.063	1.6		Lagorio & Sastyres.
Kieff	28.99	736 4	29.65	753.0	35.6	2.0	85	w.	13	6			10ks;n			blank	blank		Observatory.
Kosloy	29.06	738 0	29.58	751.2	31.3	— 0.4	93	ssw.	16	7			10 s			0	0		
Lgov	29.06	738.2	29.67	753.6	28.6	— 1.9	94	sw.	27	12			10			0.051	1.3	snowing	R.I.Ssaweljew, Engin'r.
Libau	29.82	757.4	29.81	758 0	28.8	— 1.8	87	nw.	18	8			10			0.105	4.2	snowing	
Lugan	29.74	755.5	29.96	760.9	31.1	— 0.5	62	ssw.	34	15			10			0.004	0.1		Meteorological Obs'y
Moscow	28.80	731 4	29.28	743.7	31.3	1.3	77	s.	7	3			10 n			0.063	1.6	snowing	Meteorological Obs'y
Nertschinsk	28.00	711.3	30.65	778.6	—13.7	—25.4	67	nw.	4	2			0			0	0		

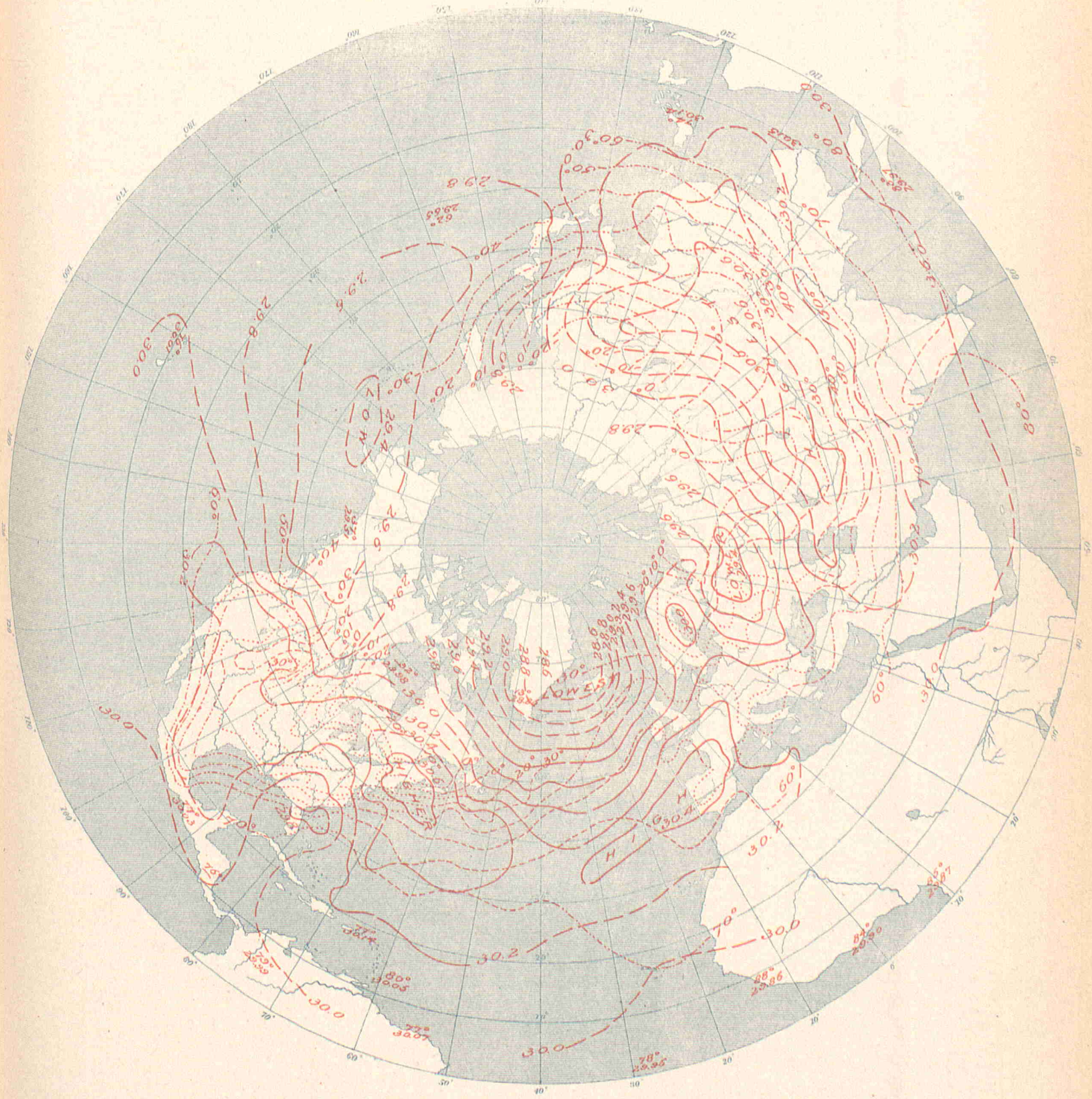
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Miles p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	29.80	757.0	29.87	758.8	33.4	0.8	90	sw.	16	6			10 n			0.039	1.0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	29.88	759.0	29.97	761.2	—18.0	—27.8	80	calm	0	0		0	0						Iwanow.
Pekin, China	30.24	768.1	30.38	771.7	26.6	— 3.0	40	calm	0	0		0	2 k			0	0		Physical Observatory.
Petro-Alexandrovsk	30 30	769 7	30.69	779.6	20.5	— 6.4	53	e.	2	1		0	4 ks						
Petrozavodsk	29.26	743.2	29.47	748.6	3.9	—15.6	81	nne.	27	12			10			0.236	6.0		Dr. Bergmann.
Pinsk	29.22	742.1	29.73	755.2	31.6	— 0.2	85	nw.	18	8			10 s			0.051	1.3		
Poti	30.11	764.8	30.14	765.6	45.0	7.2	61	e.	4	2		0	4 k			0	0		
St. Petersburg	29.48	748.9	29.51	749.5	8.4	—13.2	79	nnw.	18	8			10 n			0.024	0.6		Central Physical Obs'y.
Samarkand	28.00	711.3	30.68	779.2	23.9	— 4.5	90	e.	13	6			10 n						
Semipalatinsk	29.47	748.6	30.18	766.5	21.0	— 6.1	90	w.	13	6			10			0.039	1.0		Major Lasarew
Sevastopol	29.75	755.7	29.97	761.3	44.1	6.7	69	sw.	20	9			10 n			0.146	3.7		
Staroi Bykhov	28.99	736.4	29.57	751.0	28.6	— 1.9	80	n.	20	9			10			0.079	2.0	snowing	
Tashkend, Laboratory	28.76	730 6	30.59	776.9	21.9	— 5.6	85	calm	0	0			10 n						Terch, A. M
Tiflis	28.85	732.9	30.37	771.5	27.3	— 2.6	72	se.	7	3		0	0			0	0		Physical Observatory.
Vernoe	28.00	711.3	30.75	781.0	16.7	— 8.5	87	nw.	2	1			10 n						
Viatka	28.68	728.4	29.34	745.1	19.4	— 7.0	94	s.	18	8			10			0.165	4.2		
Vladivostock	30.04	762.9	30.10	764.6	5.5	—14.7	75	n.	18	8		0	5 k			0	0		
Warsaw	29.48	748.8	29.92	760.0	32.4	0.2	94	nw.	9	4			10 n			inap.	inap.	h'vy clouds.	Astronomical Obs'y.
Yeniseisk	29.57	751.0	29.87	758.8	14.0	—10.0	90	ese.	4.	2			10					snowing	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.10	739.1	29.27	743.4	27.9	— 2.3	89	nnw.	15	6.7			10 n		sw.	0.05	1.3	cloudy	Prof. S. Fadeieff.
Spanish.																			
Barcelona, Met. Obs'y	30.06	763.5	30.17	766.4	51.8	11.0	47	nw.								0.016	0.4	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.48	774.1	30.54	775.6	49.6	9.8	92	nw.	4.9	2.2			10			0.972	24.7	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.47	697.8	30.58	776.7	40.8	4.9	77	ne.	7.4	3.3			10			0.051	1.3	covered	Domingo Martin.
Madrid, Royal Obs'y	28.17	715.5	30.47	774.0	49.5	9.7	58	n.	8.7	3.9		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.18	766.5	30.30	769.7	56.8	13.8	58	nnw.	7.2	3.2		3	4	se.		0	0	cloudy	Olayo Diaz, Director,
Santiago, Met. Obs'y	29.60	751.7	30.51	775.0	51.8	11.0	70	e.	7.4	3.3			2			0	0	light clouds	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.92	759.9	29.98	761.6	70.3	21.3	88	sse.	1.1	0.5			9 k;n		w.	0.63	16.0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	30.09	764.2	30.14	765.6	73.5	23.1	64	ene.	4.4	2.0		0	0			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.24	768.2	30.34	770.7	60.1	15.6	64	n.	8.5	3.8		3	0	ne.		0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.05	763.2	30.14	765.5	76.6	24.8	95	se.	12.8	5.7			10 kn		se.	0.134	3.4	overcast	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.00	761 9	30.04	762.9	0.7	—17.4	100	n.			4		0			0	0		
Umea	30.02	762.6	30.08	763.9	6.8	—14.0	91	n.			2		5			0	0		
Hernosand	30.05	763.3	30.10	764.6	10.4	—12.0	70	calm			0		1			0	0		
Stockholm	29.82	757.3	29.99	761.8	13.3	—10.4	74	n.			2		2			0	0		
Wisby	29.88	758.9	29.94	760.4	26.2	— 3.2	91	n.			6		10			0.035	0.9		
Sub-series.																			
Upsala	29.92	759.9	30.00	762.1	8.4	—13.1	88	nw.	11.4	5.1			1			0.008	0.2		H. H. Hildebrandsson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.09	764.2	45.1	7.3	51	sw.	17	7.6			4		sw.	0.024	0.6		The Observatory.
Valona			30.02	762.6	58.3	14.6		se.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.13	765.3	57.9	14.4	66	sw.			2		10 n		sw.	0.02	0.5		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.58	776.7	30.67	779.0	5	—15.0	56	e.	4	1.8		0	fg.			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.61	752.1	30.32	770.1	8.8	—12.9	76	w.	3	1.3			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.15	638.8	30.27	768.8	21.0	— 6.1	70	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.94	684.3	29.68	761.5	32.2	0.1	81	sw.	20	8.9		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	28.61	727.4	29.87	758.7	29.0	— 1.7	94	e.	14	6.3			10 n			0.81	20.6	sleeting	S. W. Beall.
Atlantic City, New Jersey	30.43	772.9	30.44	773.2	35.0	1.7	89	e.	16	7.2			10 s		e.	0	0	cloudy	B. A. Blundon.
Augusta, Georgia	29.67	753.6	29.87	758.7	34	1.1	89	n.	2	0.9			10 n			0.60	15.2	light rain	W. J. Evans.
Baltimore, Maryland	30.36	771 1	30.41	772.4	24	— 4.4	88	ne.	11	4.9			10 n			0.10	2.5	light snow	Geo. W. Felger.
Barnegat City, New Jersey	30.45	773 4	30.47	773 9	35.0	1.7	74	se.	25	11.2			10 s		e.	0	0	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.31	719.1	30.05	763.3	— 8.0	—22.2	61	calm	0	0		0	hz.			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.00	685.8	29.08	761.5	38.0	3.3	73	sw.	20	8.9			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	27.95	709.9	29.95	760.7	0	—17.8	100	e.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.62	777.7	30.65	778.5	26.5	— 3.1	82	e.	7	3.1		0	2 ks		se.	0	0	clear	J. T. Elker.
Boise City, Idaho	27.22	691.4	30.15	765.8	35	1.7	89	se.	2	0.9			10 s			0.22	5.6	cloudy	James Kenealy.
Boston, Massachusetts	30.50	774.7	30.67	779.0	12.0	—11.1	70	nw.	4	1.8		0	3 s			0	0	clear	O. B. Cole.
Brownsville, Texas	30.36	771.1	30.42	772.7	27.3	— 2.6	64	n.	6	2.7		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.54	750.3	30.33	770 4	14.2	— 9.9	94	e.	6	2.7			10 n			0.01	0.2	light snow	Wm. Finn.
Buford, Fort, Dakota	27.67	702.8	29.90	759.4	19	— 7.2	87	s.	6	2.7		0	0			inap.	inap.	clear	A. Schneider.
Cairo, Illinois	29.79	756.7	30.21	767 3	7.5	—13.6	87	n.	6	2.7		0	5 s		n.	0.56	14.2	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.44	747 8	29.64	752.8	48.5	9.2	96	s.	28	12.5		0	3 ks		se.	0.32	8.1	clear	J. H. Young.
Cape Henry, Virginia	29.78	756 4	29.80	756.9	37.0	2.8	100	e.	23	10.3			10 n			0.08	2.0	heavy rain	A. K. Alderson.
Cape May, New Jersey	30.28	769.1	30.31	769.9	39.0	3.9	86	e.	18	8.0			10 s			0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.32	744.7	30.02	762.5	49	9.4	93	se.			2		10 s			0.08	2.0	cloudy	A. P. Leavitt.
Cedar Keys, Florida	29.76	755.9	29.78	756.4	57.5	14.2	100	s.	13	5.8			10 n		s.	1.47	37.3	light rain	G. W. Davis.
Charleston, S. Carolina	29.74	755.4	29.80	756.9	56.0	13.3	100	sw.	20	8.9			10 n			2.55	64.8	heavy rain	J. H. Smith.
Charlotte, N. Carolina	29.14	740 1	30.03	762.7	24.0	— 4.4	88	n.	12	5.4			10 n		n.	0.46	11.7	sleeting	D. O'Donoghue.
Chattanooga, Tennessee	29.09	738 9	29.95	760.7	29.5	— 1.4	88	ne.	1	0.4			10 n			0.01	15.5	light snow	B. L. Goulding.
Cheyenne, Wyoming	23.90	607.0	30.17	766.3	34.4	1.3	51	nw.	32	14.3		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.50	749.3	30.26	768.6	15.0	— 9.4	80	e.	2	0.9			10 n			0.04	1.0	light snow	Wm. Norrington.
Chincoteague, Virginia	30.30	769.6	30.32	770.1	41	5.0	96	se.	14	6.3			10 s		se.	0.03	0.8	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.41	747.0	30.10	764.5	15.8	— 9.0	89	e.	6	2.7			10 n		e.	0.32	8.1	light snow	L. Dunne.
Cleveland, Ohio	29.42	747.3	30.20	767.1	13.0	—10.6	100	e.	4	1.8			10 n		e.	0.10	2.5	heavy snow	W. Line.
Columbus, Ohio	29.19	741.4	30.09	764.3	12.7	—10.7	83	n.	5	2.2			10 s			0.38	9.7	cloudy	F. T. Williams.
Concho, Fort, Texas	28.32	719.3	30.34	770.6	15.0	— 9.4	100	sw.	2	0.9		0	1 s			0	0	clear	C. E. King.
Custer, Fort, Montana	26.72	678 7	30.10	764 5	18	— 7.8	58	w.	8	3.6		0	0			0	0	clear	W. J. Daily.
Davenport, Iowa	29.58	751.3	30.29	769 4	1.5	—16.9	70	ne.	2	0.9		2 cs	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.30	642.6	30.28	769.1	35.4	1.9	67	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.12	714.2	29.93	760.2	52.4	11.3	50	sw.	6	2.7			10 n		w.	0.04	1.0	light rain	H. S. Blandford.
Deadwood, Dakota	25.25	641.3	30.20	767.1	30.1	— 1.1	74	s.	6	2.7		0	0			0	0	clear	G. Kingsbury.
Delaware Breakwater, Del	30.30	771.1	30.38	771.6	35.8	2.1	100	e.	25	11.2			10 n		e.	0.01	0.3	light rain	G. A. Martin.
Denver, Colorado	24.68	626.9	30.20	767.1	33.5	0.8	54	s.	9	4.0			0			0	0	clear	F. M. Neu.
Des Moines, Iowa	29.32	744.7	30.29	769 4	— 5	—20.6	62	calm	0	0		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.50	749.3	30.26	768.6	14.0	—10.0	64	n.	9	4.0			10 s			inap.	inap.	cloudy	N. B. Conger.
Dodge City, Kansas	27.43	696.7	30.18	766.6	10	—12.2	73	sw.	7	3.1		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.59	751.6	30.36	771.1	—16.5	—26.9	39	n.	1	0.4		0	fg.			0	0	clear	J. Harvey Smith
Duluth, Minnesota	29.50	749.3	30.30	769 6	—19	—28.3	100	calm	0	0		0	0			0	0	clear	E. R. Brace.
Eastport, Maine	30.58	776.7	30.65	778 5	1.0	—17.2	55	w.	6	2.7		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.29	693.2	30.22	767.6	11.0	—11.7	80	s.	5	2.2		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.44	671.6	30.32	770.1	29.2	— 1.6	49	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.48	748.8	30.26	768.6	17.2	— 8.2	83	se.	4	1.8			10 n			inap.	inap.	light snow	C. A. Shaw.
Escanaba, Michigan	29.63	752.6	30.35	770.9	—14.0	—25.6	68	nw.	4	1.8		4 ck	0	s.		0	0	fair	L. M. Pindell.
Fort Smith, Arkansas	29.84	757 9	30.34	770.6	2.0	—16.7	72	w.	3	1.3		0	0			0.05	1.3	clear	J. B. Campbell.
Galveston, Texas	30.26	768.6	30.30	769.6	23.5	— 4.7	53	n.	20	8.9		0	hz.			0.21	5.3	clear	E. O'C. Macieinrney
Grand Haven, Michigan	29.58	751.3	30.29	769.4	8.0	—13.3	70	n.	6	2.7		3 c	3 s			0.01	0.3	fair	Joseph E. Muelle
Grant, Fort, Arizona	25.35	643.9	30.25	768.3	36	2.2	55	ne.	6	2.7		4 c	0	w.		0	0	fair	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.12	765.0	30.13	765.3	57.0	13.9	74	se.	27	12.1			10 k			0	0	cloudy	R. M. Crawford.
Helena, Montana	25.74	653.8	30.12	765.0				w	8	3.6		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	28.56	725.4	30.10	764.5	6.8	—14.0	64	s.	11	4.9		0	0			inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.26	743.2	30.10	764.5	11.0	—11.7	80	ne.	8	3.6			10 n		ne.	0.18	4.6	light snow	C. F. R. Wappenhans.
Indianola, Texas	30.35	770.9	30.38	771.6	25.0	— 3.9	67	n.	17	7.6		0	0			inap.	inap.	clear	I. A. Reed.
Jacksonville Florida	29.77	756.1	29.82	757.4	58.0	14.4	100	s.	8	3.6			10 n			1.03	26.2	light rain	J. W. Smith.
Keokuk, Iowa	29.59	751.6	30.29	769.4	— 1.0	—18.3	74	calm	0	0		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.93	760.2	29.95	760.7	71	21.7	83	s.	15	6.7		2 cs	4 k	W.	sw.	0.84	21.3	fair	A. W. Browne.
Kittyhawk, North Carolina	30.18	766.6	30.20	767.1	48.0	8.9	88	se.	28	12.5			10 s		se.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	28.88	733.5	29.96	761.0	27.1	— 2.7	99	nw.	7	3.1			10 n			0.26	6.6	light snow	J. A. Cody.
La Crosse, Wisconsin	29.45	748.0	30.29	769.4	— 2.1	—18.9	100	w.	2	0.9		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.34	745.2	30.30	769.6	3	—16.1	72	calm	0	0			10 s			inap.	inap.	cloudy	T. S. Outram.
Lewiston, Idaho	29.13	739.9	30.00	762.0	42.0	5.6	65	calm	0	0		0	7 k			0	0	fair	C. E. Butler.
Little Rock, Arkansas	29.94	760.5	30.27	768.8	12.0	—11.1	80	nw.	6	2.7		0	0			0.22	5.6	clear	W. U. Simons.
Los Angeles, California	29.80	756.9	30.20	767.1	47.0	8.3	77	calm	0	0		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.49	749.0	30.08	764.0	14.0	—10.0	80	n.	10	4.5			10 n			0.14	3.6	light snow	L. M. Dey.
Lynchburg, Virginia	29.46	748.3	30.18	766.6	20.0	— 6.7	76	ne.	3	1.3			10 n			1.90	48.3	light snow	Jno. Healy.
Mackinaw City, Michigan	29.65	753.1	30.35	770.9	10.0	—12.2	80	sw.	3	1.3			10 s			0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.06	763.5	30.06	763.5	53.0	11.7	86	se.	40	17.9			10 s		se.	0.26	6.6	cloudy	William Daly.
Maginnis, Fort, Montana	25.35	643.9	30.12	765.0	35.4	1.9	49	sw.	20	8.9			10 s		sw.	0	0	cloudy	F. Burke.
Marquette, Michigan	29.57	751.1	30.35	770.9	— 6.0	—21.1	62	w.	6	2.7		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.83	757.7	30.19	766.8	8	—13.3	87	nw.	2	0.9			10 s			1.23	31.2	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.48	748.8	30.28	769.1	6.5	—14.2	89	nw.	12	5.4			10 n			inap.	inap.	light snow	S. W. Rhode.
Mobile, Alabama	29.96	761.0	30.00	762.0	30	— 1.1	88	nw.	14	6.3			10 s		nw.	2.16	54.9	cloudy	H. U. Jones.
Montgomery, Alabama	29.67	753.6	29.91	759.7	35	1.7	89	n.	4	1.8			10 s		n.	0.83	21.1	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.00	736.6	30.11	764.8	— 2	—18.9	100	se.	28	12.5			10 s		se.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.91	607.3	30.54	775.7	9.0	—12.8	73	sw.	20	8.9		4 cs	0			0	0	fair	Edwd. A. Beals.
Nashville, Tennessee	29.45	748.0	30.06	763.5	17.0	— 8.3	89	nw.	12	5.4		10 cs	0			1.16	29.5	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.49	774.4	30.61	777.5	8.5	—13.1	87	ne.	9	4.0		5 c	hz.	W.		0	0	dense haze	J. H. Sherman.
New London, Connecticut	30.61	777.5	30.66	778.7	10.5	—11.9	66	n.	8	3.6		2 k	0	n.		0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.14	765.5	28.0	— 2.2	70	n.	16	7.2			10 ks		n.	0.46	11.7	cloudy	M. Herman.
New York, New York	30.38	771.6	30.57	776.5	21.5	— 5.8	78	ne.	18	8.0			10 s			0	0	cloudy	H. J. Penrod.
Norfolk, Virginia	30.10	764.5	30.14	765.5	45.0	7.2	83	e.	6	2.7			10 n		e.	0.02	0.5	light rain	Wm. Davis.
North Platte, Nebraska	27.00	685.8	30.12	765.0	5.6	—14.7	78	nw.	4	1.8		0	0			0	0	clear	Mc Lean.
Olympia, Washington T'y	29.65	753.1	29.69	754.1	47.0	8.3	93	s.	5	2.2			10 n			0.69	17.5	light rain	J. Dascomb.
Omaha, Nebraska	29.01	736.8	30.28	769.1	6.1	—14.4	87	s.	5	2.2			10 s			0.02	0.5	cloudy	A. Pollak
Oswego, New York	30.15	765.8	30.50	774.7	19.0	— 7.2	53	se.	11	4.9			10 s			0.54	13.7	cloudy	J. G. Linsley.
Palestine, Texas	29.77	756.1	30.35	770.9	12.5	—10.8	61	nw.	1	0.4		0	0			0.02	0.5	clear	P. T. Jenkins.
Pensacola, Florida	29.90	759.4	29.93	760.2	37.2	2.9	89	n.	11	4.9			10 s		nw.	1.75	44.4	cloudy	M. McGannan.
Philadelphia, Pa.	30.39	771.9	30.50	774.7	23	— 5.0	88	ne.	14	6.3			10 n		ne.	inap.	inap.	light snow	T. F. Townsend.
Pike's Peak, Colorado	17.61	447.3	30.31	769.9	4.0	—15.6	100	nw.	30	13.4			fg.		nw.	inap.	inap.	dense fog	H. Hall.
Pittsburg, Pennsylvania	29.35	745.5	30.20	767.1	20.5	— 6.4	91	ne.	9	4.0			10 n		nw.	0.42	10.7	light snow	O. D. Stewart.
Poplar River, Montana					10.5	—11.9	87	w			1	0	0			inap.	inap.	clear	G. A. Carden.
Port Huron, Michigan	29.52	749.8	30.25	768.3	10.0	—12.2	84	ne.	12	5.4			10 n			0.02	0.5	light snow	M. H. Perry
Portland, Maine	30.60	777.2	30.65	778.5	5.5	—14.7	64	nw.	4	1.8		0	hz.			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.64	752.8	29.71	754.6	52.5	11.4	82	s.	8	3.6			10 s			0.73	18.5	cloudy	M. L. Hearne.
Prescott, Arizona	24.90	632.4	30.28	769.1	28.8	— 1.8	78	sw.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	30.62	777.7	30.65	778.5	18.8	— 7.3	84	nw.	2	0.9		10s;hz	0			0	0	clear	C. N. Kitchel.
Red Bluff, California	29.84	757.9	30.20	767.1	43	6.1	100	n.	3	1.3		0	6 ks		nw.	0	0	fair	J. R. Williams.
Rio Grande City, Texas	30.23	767.8	30.48	774.2	20.2	— 3.2	76	calm	0	0		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.73	755.1	30.44	773.2	17	— 8.3	91	se.	13	5.8			10 n			inap.	inap.	light snow	E. W. McGann.
Roseburg, Oregon	29.28	743.7	29.85	758.2	54.2	12.3	67	s.	9	4.0		0	9 s		sw.	1.53	38.9	threatening	J. J. Nanry.
Sacramento, California	30.16	766.1	30.24	768.1	43.0	6.1	96	calm	0	0		0	5 s			0	0	fair	J. A. Barwick
St. Louis, Missouri	29.68	753.9	30.34	770.6	0.9	—17.3	77	nw.	12	5.4		0	0			0.05	1.3	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.57	751.1	29.60	751.8	—14	—25.6	100	ne.	7	3.1		0	0			0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.34	745.2	30.28	769.1	—19.0	—28.3	100	w.	1	0.4		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.01	736.8	29.99	761.7	— 4	—20.2	85	[illegible]	13	5.8		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.77	654.5	30.34	770.6	37.4	3.0	69	e.	3	1.3			10 s			0	0	cloudy	J. Craig.
San Diego, California	30.08	764.0	30.15	765.8	51.5	10.8	96	n.	8	3.6		0	fg.			0	0	clear	F. R. Day.
Sandusky, Ohio	29.47	748.5	30.19	766.8	15	— 9.4	83	e.	1	0.4			10 n		e.	0.04	1.0	light snow	B. F. Hough.
Sandy Hook, New Jersey	30.53	775.4	30.56	776.2	25.0	— 3.9	73	ne.	27	12.1			10 s			0	0	cloudy	V. P. Chappel.
Sanford, Florida	29.70	755.9	29.81	757.2	67	19.4	90	s.	14	6.3			10 ks		s.	0.05	1.3	cloudy	J. B. Marbury
San Francisco, California	30.15	765.8	30.22	767.6	48.4	9.1	94	calm	0	0			fg.		sw.	0	0	dense fog	N. Gorom.
Savannah, Georgia	29.71	754.6	29.81	757.2	41	5.0	89	nw.	6	2.7			10 s		sw.	2.36	59.9	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.17	664.7	30.03	762.7	39	3.9	57	sw.	22	9.8		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.05	763.3	30.30	769.6	11.2	—11.6	70	nw.	5	2.2		0	0			0.04	1.0	clear	E. N. Meekins.
Sitka, Alaska	29.44	747.8	29.51	749.5	30.9	2.7	85	e.	6	2.7			10 n		e.	0.53	13.5	light rain	F. W. Fickett.
Smithville North Carolina	29.88	758.9	29.92	760.0	53.8	12.1	91	se.	31	13.9			10 n		se.	0.02	0.5	light rain	O. Parker.
Spokane Falls, Wash. Ter.																			D. Moore.
Springfield, Illinois	29.51	749.5	30.24	768.1	2.4	—16.4	85	n.	0	2.7		0	0			0.10	2.5	clear	T. B. Jennings.
Stockton, Fort, Texas	27.14	689.3	30.28	769.1	21.0	— 6.1	73	s.	3	1.3		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.50	749.3			44.6	7.0	98	sw.	28	12.5			10 n		sw.	0.27	6.9	light rain	R. Connor.
Thomas, Camp, Arizona	27.49	698.2	30.32	770.1	24.7	— 4.1	84	s.			1	1 c	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.46	748.3	30.20	767.1	12	—11.1	89	ne.	14	6.3			10 n			0.01	0.3	light snow	A. Buell.
Unalaskha, Alaska	29.34	745.2	29.36	745.7	29	— 1.7	77	sw.	8	3.6			10 s			0	0	cloudy	Samuel Applegate.
Vicksburg, Mississippi	29.96	761.0	30.24	768.1	15.3	— 9.3	67	n.	10	4.5		2 c	0	n.		0.86	21.8	clear	C. Dill.
Washington, D. C.	30.25	768.3	30.37	771.4	20.6	— 6.3	89	ne.	9	4.0			10 n			0.20	5.1	light snow	T. B. Harrison.
West Las Animas, Colorado	26.04	661.4	30.17	766.3	10.5	—11.9	96	w.	5	2.2		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	29.82	757.4	29.88	758.9	57.0	13.9	93	se.	5	2.2			10 n		se.	0.12	3.0	light rain	L. H. Albrecht.
Yankton, Dakota	28.74	730.0	30.16	766.1	3.4	—15.9	79	sw	8	3.6		0	0			inap.	inap.	clear	E. H. Thompson.
Yuma, Arizona	29.99	761.7	30.14	765.5	40.5	8.1	51	ne.	5	2.2		0	1 s		n.	0	0	clear	W. S. Delano.
Sub-series.																			
Behrings Island, Kamchatka	29.70	754.4	29.72	754.9	30.6	— 0.8	84	n.	10	4.5		0	9 k		n.	0	0	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.					75	23.9		nw.			2	1 c	7 k		ne.	0.26	6.6	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.06	560.3			52.7	11.5	86	nw.	4	2			10 pk		s.	0	0		Jordan Gomez.
Chimo, Fort, Ungava, B. A.	29.59	751.6	29.74	755.4	5	—15.0	100	sw.	43	19.2			10 s		w.	blank	blank	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.			30.05	763.3	77.8	25.4	81	ese.	5	2.2		0	2 s		e.	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	77	25.0	82	e.			2	6 k	8 ps	e.		0.050	1.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.43	747.5	29.99	761.7	79	26.1	85	calm			0		2 ks		calm	0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75.8	24.3	92	ne.			1		10 ks		ne.	0	0	cloudy	Earl Flint.
York Factory, B. A.	29.91	759.7	29.98	761.5	—32.0	—35.6		nw.	11	4.9		1 c	1 s	nw.	nw.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.97	761.3	29.98	761.5	78.1	25.6	88	wsw.	1.3	0.6		0	6 k		n.			fair	P. Fasiani.
Naôs, Bay of Panama	29.93	760.1	29.99	761.8	74.5	23.6	95	n.			4	0	1 k		n.			clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
S.S. Assyrian Monarch, N. 42° 59′, W. 54° 18′						nw.			6		8		nw.	4 h'r	4 h'r	h'vy	wnw.	overcast.
S. S. Alvo, N. 18° 40′ W. 76° 48′ *	30.08	764 0	77	25.0		e.			5–6		7		e.	0	0	light	e.	fair.
S. S. Alleghany, Chesapeake Bay †	30.29	769.4	22	— 5.6		se.			4		10		n.	4 h'r	4 h'r			snowing.
Bg. Abbie Clifford, N. 41° 36′, W. 68° 50′*†	30.67	779 0	25	— 3.9		calm			0		1			0	0	light	ne.	
Schr. Anna A. Holton, N. 35° 32′, W. 74° 11′*†	30.21	767.3				ese.			6		10		e.	8 h'r	8 h'r	r'gh	e.	overcast.
S. S. Alps, Kingston, Jamaica, W.I *†	30.04	763.0	81	27.2		e.			4		4		e.	0	0	short		
S. S. Circassian, N. 53° 42′, W. 27° 52′	29.50	749.3	41	5.0	73	wsw.			5		10		wsw.			5	wsw.	overcast
S. S. Cienfuegos, Nassau, N. P. Bahamas	29.99	761.7	75	23.9		se.			4		10		e.	0	0	mod.	ene.	cloudy.
S. S. Caracas, N. 13° 53′ W. 68° 53′ *†	30.10	764.5	80.5	26.9	82	ene.			6		8		e.	0	0	r'gh	ene.	squally.
S. S. Canada, (Fr) N. 40° 53′, W. 69° 51′			35.6	2.		s.			3				s.			sm'h	s.	clear.
S. Cornelius, N. 36° 14′ W. 73° 06′*†	30.35	770 9	57.9	14.4		sse.			6		10			0	0	sm'h		cloudy.
Bk. Diamant, N. 40° 40′, W. 50° 39′	30.47	773 9	43.3	6.3		nw.			5		10		nnw.			5	nw.	overcast.
S. S. Dorian, N 33° 26′, W. 21° 40′	30.28	769.1	66	18.9		ne.			6		8		ne.	0	0	long	ne.	fair.
S. S. Denmark, London, Engt	30.15	765 8	45	7.2	92 *	sw.			5		10		sw.	sh'rs	sh'rs			light rain.
S. S. France, N. 49° 30′, W. 19° 10′						sw.			7		8		sw.	0	0	large	wsw.	cloudy.
Bg. Gipsy Queen Matanzas, Cuba, W. I *†	30.00	762.0				calm			0		10							thnd'r st'rm.
Bk. Ibis, N. 37° 40′, W 71° 32′*	30 33	770.4	49	9.4		ene.			5		10		ene.	6 h'r	6 h'r	short	ne.	rainy.
S. S. Iowa, N. 42° 39′, W. 61° 12′ †	30.57	776.5	30	— 1.1		wnw.			6		8		wnw.	3 h'r	3 h'r	mod.	wnw.	cloudy.
Schr. Jas. Slater, N. 28° 41′, W. 69° 40′ *†	30.38	771.7	69	20.6		ese.			6		5		e.	0	0	h'vy		fair.
Bg. Lilian, N. 37° 05′, W. 74° 45′ †	30.34	770.6	55	12.8		se.			6		10			2 h'r	2 h'r	r'gh	se.	threatening
S. S. Lord Gough, N. 51° 05′, W. 18° 47′*	29.84	757.9	52	11.1		s			6		10		s.	4 h'r	4 h'r	long	sw.	raining.
Bg. L. F. Munson, N. 35° 44′, W. 69° 13′ *†	30.44	773.2	58	14.4		ese.			3		2		ese.	0	0	long	n.	fair.
S. S. Mentmore, N. 44° 18′, W. 52° 37′ *†	30.44	773.2	32	0.0		w.			7		10			16 h'r	16 h'r	mod	w.	stormy.
Bk. Matilda C. Smith, N. 29° 47′, W. 64° 52′ *†	30.35	770.9				ne.			5		4		ene.	0	0		nw.	clear.
Schr. Maggie Abbott, Cape Haytien, Hayti, W. I*†	30.05	763.3							2		2		ne.	0	0		ene.	clear.
Bk. Matthias, N. 31° 13′, W. 48° 30′ *†	30.38	771.6	67	19.4		n.			4–5		10		nne.	1 h'r	1 h'r	3	wnw.	fair.
S. S. Neckar, N. 40° 36′, W. 70° 10′			28	— 2.2	83	nw.			1–6		8		nw.	0	0	sm'h	nw.	fair.
S. S. Nova Scotian, N. 50° 37′, W. 39° 42′	29.69	754.1	35	1.7		wsw.			6		10		wsw.			high	wsw.	squally.
S. S. Nederland, N. 49° 41′, W. 23° 55′			49	9.4	93	sw.			6		10		w.	5 h'r	5 h'r	high	sw.	heavy rain.
S. S. Olbers, N. 29° 48′, W. 67° 31′	30.45	773.4	66	18.9	78	e.			5		8		e.	0	0	sl't	var.	cloudy.
S. S. Pavonia, N. 45° 46′, W. 40° 36′	30.06	763.5	48	8.9	85	wnw.			6		6		wnw.	3 h'r	3 h'r	short	w.	squally.
S. S. Picqua, N. 35° 20′, W. 9° 16′*†	30.38	771.6	60	15.6	88	ne.			4		5			0	0	light	n.	fair.
S. S. Rhynland, N. 43° 30′, W. 59° 30′	30.53	775.4	40	4.4	73	nw.			4		4		nw.	0	0	r'gh	nw.	fair.
S. S. Romano, N. 47° 03′, W. 25° 10′	29.93	760.2	57	13.9		sw.			6		8		sw.	0	0	h'vy	sw.	hazy.
S. S. Rosse, N. 49° 27′, W. 21° 44′			59	15.0		ssw.			7		10		sw.	0	0	h'vy	ssw.	overcast.
Bk. Rosina, N. 25° 32′, W. 56° 47′	30.34	770.6	78	25.5		ne.			2		2		wnw.	0	0	mod	nw.	clear
S. S. Scythia, N. 40° 53′, W. 69° 03′	30.66	778.7				n.			1		3		calm	2 h'r	2 h'r	sm'h		clear.
S. S. St. Albans, N. 27° —′, W. 66° —′ *	30.25	768 3	76	24.4		ene.			6		5		s.	2 h'r	2 h'r	mod.	e.	fair.
Bg. Teneriffe, N. 40° 03′, W. 73° 05′	30.56	776.2				e.			5		8		e.			3		cloudy.
Schr. Viola Reppard, N. 39° 27′, W. 71° 56′†	30.40	772.1	32	0.0		e.			5		10		e.	0	0	small	ene.	cloudy.
S. S. Valencia, N. 25° 41′, W. 70° 05′ †	30.20	767 1	74	23.3	86	ene.			6		9		e.	0	0	r'gh	e.	cloudy.
S. S. Westphalia Hamburg, Germany	30.05	763.3	40	4.4	91	w.			5		10			0	0			cloudy.
S. S. Andes, N. 17° 45′, W. 71° 00′ *†	30.10	764 5	82	27.8		e.			2		3		e.	0	0			squally.
Bk. Ariadne, N. 28° 18′, W. 69° 33′	30.30	769.6	68	20.0		ene.			5		4		ene.	0	0	mod.	ne.	fair.
Schr. Annie R. Lewis, N. 21° 43′, W. 71° 08′ †	30.22	767.6	79	26.1		ese.			5		1		se.	2 h'r	2 h'r	h'vy	cross	clear.
Schr. Arthur Burton, Matanzas, Cuba, W.I†	30.07	763.8				calm			0		10			5 h'r	5 h'r	r'gh	nne.	stormy.
U. S. S. Alliance, Port au Prince, Hayti, W.I.			75	23.9	85	ese.			2		2		calm	0	0	sm'h		clear.
S. S. Britannic, N. 41° 50′ W. 51° 50′*†	30.42	772 7	36	2.2		nne.			4		5		nw.	0	0	high	nw.	d. clouds.
S. S. British Princess, N. 38° 49′ W. 62° 00′ †	30.60	777.2	44	6.7		n.			4	8 ck		ne.		0	0	mod.	nw.	cloudy.
S. S. Chalmette, N. 31° 05′, W. 80° 25′ †	29.77	756.1				ssw.			9		10		ssw.	6 h'r	6 h'r	r'gh	se.	cloudy.
Schr. Ellen Crusoe, N. 21° 48′, W. 69° 10′ *†	30.22	767.6				ne.							e.	1 h'r	1 h'r			cloudy.
S. S. Germanic, N. 47° 00′, W. 43° 51′*†	29.88	758.9	29	— 1.7	89	w.			6		8		w.	2 h'r	2 h'r	r'gh	wsw.	squally.
S. S. Grecian, N. 14° 08′, W. 25° 23′	29.97	761.2	73	22.8	67	nne.			1		0			0	c	light	ne.	clear.
Bg. John Welsh, jr., Galveston Bar, Tex						nnw.			5				n.					clear.
S. S. Lone Star, N. 27° 04′, W. 86° 25′*†	29.88	758.9	67	19.4		wnw.			6		10		wnw.	8 h'r	8 h'r	h'vy		cloudy.
S. S. Lord Clive, N. 47° 57′, W. 41° 16′						w.			6		10		w.	5 h'r	5 h'r	cross		squally.
S. S. Muriel, N. 32° 09′, W. 68° 25′			68	20.0		e.			4		5		ne.	0	0	mod.	ne.	fair.
S. S. Ontario, N. 55° 20′, W. 13° 25′	29.70	754.4	50	10.0		wsw.			7		10			4 h'r	4 h'r	high	wsw.	overcast.
S. S. Orinoco, New York, N. Y			28	— 2.2		ene.			1		10			0	0			
Bk. Saga, N. 23° 30′, W. 37° 44′ *†.	30.16	766.0	72	22.2		var.			6		5			½ h'r	½ h'r	mod.	var.	fair.
S. Storm King, N. 31° 35′, W. 39° 06′ *†	30.34	770.6				w			1		5		w.	0	0	sm'h	n.	overcast.
S. S. State of Nebraska, N. 43° 23′, W. 51° 00′*†	30.47	773.9	28	— 2.2		wnw.			5		10		nw.	0	0	sm'h		snowy.
S. S. Samaria, N. 42° 00′ W. 54° 15′	30.44	773.2	34	1.1		nw.			5		10		wnw.	4 h'r	4 h'r	r'gh	wnw.	cloudy.
S. S. Salerno, N. 52° 03′, E. 1° 50′ †	30.17	766.3	48	8.9		nnw.			2		10		nnw.	0	0	sm'h	w.	hazy.
S. S. St. Laurent, N. 47° 40′, W. 40° 40′	29.99	761.8	27.4	3		wnw			6		4		wnw.	now	snow	large	wnw.	fair.
U. S. S. Swatara, Port au Prince, Hayti, W.I			74	23.3	76	calm			0		0					sm'h		clear.
U. S. S. Tennessee, Port au Prince, Hayti, W. I	30.08	764.0	73	22.8	81	calm	0	0			0			0	0			clear.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I.	30.04	763.0	74	23.3	90	ene.			1		2							fair.
S. S. Venetian, N. 42° 17′, W. 68° 10′			28	— 2.2		s.					0			4 h'r	4 h'r	sm'h		clear.
S. S. Weser, N. 48° 46′, W. 28° 00′	29.87	758 7	47.3	8.5		wnw.			4		10		w.	19 h'r	19 h'r	h'vy	var.	drizzling.
S. S. Wyoming, New York, N. Y	30.57	776.5	19	— 7.2		ene.			3		9		e.	0	0			fair.
S. S. Westernland, N. 42° 29′, W. 54° 36′	30.44	773.2	30	— 1.1		wnw.			4		10		wnw.	24 h'r	24 h'r	long	wnw.	dull.
U. S. Navy Yard, Portsmouth, N. H *	30.70	779.8	4	—15.6	74	nw.	5	2.2			0			0	0			clear.
U. S. S. Kearsarge, Villefranche, France	29.81	757.2	60	15.6	76	ssw.			1		8							fair.
U. S. S. Lancaster, Villefranche, France	29.85	758.2	59	15.0	82	w.			2		8		w.	0	0	sm'h		cloudy.
U. S. S New Hampshire, Newport, R. I	30.66	778.7	22	— 5.6		ene.			2		0					sm'h		clear.
U. S. S. Quinnebaug, Leghorn, Italy	29.77	756.1	53	11.7	80	ene.			2		10		s.			sm'h		cloudy.
U. S. S. Shenandoah, N. 33° 05′, W. 40° 26′*	30.31	769.9	69	20.6	90	ssw.			2		8					sm'h		fair.
U. S. S. Trenton, Marseille, France	29.93	760.2	52	11.1	79	nne.			2		2					sm'h		clear.
H. M. S. Alexandra, Malta, Mediterranean	30.04	763.0	63	17.2	62	ssw.			4		9	ssw.						d. clouds.
H. M. S. Alecto, N. 5° 05′, W. 1° 13′	29.90	759.4	84	28.9		s.			1		7					3	ssw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.43	772.9	59	15.0	76	nne.			4		6	ene.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.33	770 4	61	16.1	82	sw.			1		3	wsw.						d. clouds.
H. P. M. S. Douro, N. 3° 46′, E. 9° 09′	29.87	758.7	85.1	29.5	75	sse.			1		1			3 h'r	3 h'r	2	sw.	blue sky.
S. S. British Crown, N. 39° 48′, W. 71° 00′†	30.56	776.2	38	3.3		se.			2		0			0	0	sm'h		clear
S. S. Ohio, Liverpool, Eng *†	29.99	761.7	47	8.3	100	wnw.			3		10		wnw.	12 h'r	12 h'r			cloudy.
S. S. Pennsylvania, N. 48° 16′, W. 36° 42′			41	5.0	82	wsw.			9		7		w.	8 h'r	8 h'r	h'vy	w.	cloudy.
S. S. Devonia, N. 40° 43′, W. 69° 10′†	30.63	778.0	28	— 2.2		ese.			1		0			0	0	sm'h		clear.
S. S. Carroll, Halifax, N. S			6	—14.4		n.			2		2		n.	0	0			clear.
S. S. Wisconsin, N. 51° 20′, W. 20° 05′	29.69	754.1	50	10.0		ssw.			8		10		sw.	5 h'r	5 h'r	high	sw	hazy.
S. S. Bohemia, N. 53° 33′, E. 9° 58′						sw.			4		7		w.	rain	rain			cloudy.
S. S. Frisia, N. 44° 55′, W. 50° 05′	30.34	770.6	30	— 1.1		w.			6		10			snow	snow	long	w.	covered.
S. S. Archimedes, N. 30° 16′ W. 78° 10′	29.72	751.9				se.			7		10		s.	1 h'r	1 h'r	high	se.	hy. showers.
S. S. Hevelius, Antwerp, Belgium *†	30.07	763.8	42	5.6		w.			5		9		wnw.	0	0			cloudy.
S. S. Archimede, N. 37° 05′, W. 26° 27′ †	30.49	774 4	68	20.0		se.			3		2		se.	0	0	r'gh	var.	clear.
S. S. Texas, N. 43° 24, W. 8° 16′*†	30.41	772.4	55	12.8	81	s.			1		0			0	0	mod.	sw.	clear.
S. S. Erin, London, Eng	30.21	767.3	49	9.4		wsw.			3		5		wnw.	0	0			hazy.
S. S. Helvetia, N. 51° 02′, W. 17° 40′	29.87	758.7	55	12.8	93	s.			6		10			0	0	h'vy	s.	hazy.
S. S. Habsburg, N. 42° 50′, W. 57° 32′						nw.			5		9		nnw.	1 h'r	1 h'r	r'gh	nw.	overcast.
S. S. Wuesland, N. 49° 50′, W. 11° 08′	30.27	768.8	49	9.4		wsw.			9		10		wsw.	0	0	h'vy	w.	cloudy.
S. S. W. A. Scholten, N. 49° 44′, W. 10° 24′			54.1	12.3	90	ssw.			6		8		wnw.	0	0	6	wsw.	cloudy.
S. S. Saxon, Philadelphia, Pa†	30.41	772.4	21	— 6.1		ne.			2		10							fine.
S. S. Celtic, N. 49° 25′. W. 28° 25′ *†	29.79	756.7				wnw.			5		10		w.	sh'rs	sh'rs	h'vy	w.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Marengo, N. 39° 50′, W. 65° 53′	.....	.....	44	6.7	.....	ene.	.....	.....	4	.....	10	.....	nw.	0	0	r'gh	sw.	overcast.
Bg. Alcira, N. 37° 12′, W. 72° 09′	30.37	771.4	.....	.....	.....	se.	.....	.....	4	.....	10	.....	se.	2 h'r	2 h'r	mod.	ese.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.33	770.4	59	15.0	76	ne.	.....	.....	2	.....	1	.....	.....	0	0	.....	.....	clear.
Bk. Bayonnaise, N. 19° 02′, W. 61° 41′	.....	.....	77.0	25	.....	ene.	.....	.....	5	.....	5	.....	ene.	0	0	sm'h	ne.	fair.
Schr. Clotilde, N. 25° 07′, W. 88° 20′†	30.03	762.7	64	17.8	.....	nw.	.....	.....	7	.....	8	.....	nw.	4 h'r	4 h'r	h'vy	nw.	cloudy.
Bk. Celestina, Cadiz, Spain *†	30.35	770.9	.....	.....	.....	nne.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	fine.
Bkt. C. S. Bushnell, N. 36° 03′, W. 4° 50′	30.32	770.1	.....	.....	.....	var.	.....	.....	2	.....	1	.....	se.	0	0	sm'h	.....	
Bg. Daphne, N. 0° 09′, W. 33° 24′*†	29.90	759.4	79	26.1	86	e.	.....	.....	2	.....	5	.....	se.	0	0	h'vy	var.	fair.
S. E. J. Spicer, Liverpool, Eng.	30.06	763.5	49	9.4	93	w.	.....	.....	5	.....	10	.....	w.	6 h'r	6 h'r	.....	.....	raining.
S. E. B. Sutton, N. 28° 40′, W. 43° 40′ *†	30.36	771.1	70	21.1	90	ene.	.....	.....	1	.....	2	.....	e.	0	0	sm'h	.....	clear.
S. Hedwig, N. 34° 52′, W. 7° 47′	30.31	769.9	63.0	17.2	96	nne.	.....	.....	3	.....	3	.....	var.	0	0	2	nne.	fine.
Bk. Heinrich & Tonio, N. 41° 37′, W. 45° 00′ *†	30.37	771.4	49	9.4	78	nw.	.....	.....	4	.....	6	.....	nw.	6 h'r	6 h'r	mod.	nw.	fair.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.12	765.0	.....	.....	.....	wnw.	.....	.....	6	.....	9	.....	wnw.	8 h'r	8 h'r	.....	.....	clearing.
S. Henry, N. 39° 13′, W. 57° 42′*	30.46	773.7	47.5	8.6	.....	nw.	.....	.....	6	.....	6 k	.....	.....	.....	.....	6	nw.	storming.
Bg. John Wesley, Havana, Cuba	.....	.....	.....	.....	.....	ese.	.....	.....	1	.....	0	.....	.....	2 h'r	2 h'r	.....	.....	clear.
Schr. John L. Thomas, Hobbles Cays, C. A†	29.98	761.5	78	25.6	86	se.	.....	.....	1	.....	3	.....	sw.	½ h'r	½ h'r	.....	.....	fair.
Bg. L. & W. Armstrong, N. 26° 34′, W. 55° 13′†	30.30	769.6	.....	.....	.....	ese.	.....	.....	2	.....	3	.....	se.	½ h'r	½ h'r	mod	se.	clearing.
S. S. Laurel, Key West, Fla†	29.95	760.7	71	21.7	.....	ssw.	.....	.....	2–3	.....	8	.....	w.	2½h'r	2½h'r	.....	.....	cloudy.
Bkt. Levanter, N. 1° 33′, W. 29° 06′*	29.96	761.0	78	25.6	.....	se.	.....	.....	3	.....	10	.....	e.	3 h'r	3 h'r	mod.	se.	cloudy.
S. S. Madrid, N. 37° 23′, E. 10° 18′†	30.05	763.3	60	15.6	76	w.	.....	.....	6–7	.....	8	.....	w.	2 h'r	2 h'r	rg'h	v.	raining.
S. S. P. de Satrastegui, Havana, Cuba	.....	.....	.....	.....	.....	s.	.....	.....	3	.....	8	.....	.....	3 h'r	3 h'r	.....	.....	raining.
Bg. Rosalie, N. 28° 05′, W. 44° 15′*†	30.31	769.9	.....	.....	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	light	se.	clear.
S. Salisbury, N. 36° 62′, W. 2° 02′	30.28	769.2	61.5	16.4	85	nnw.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Tuck Sing, N. 26° 06′, W. 70° 44′*†	30.24	768.1	.....	.....	.....	e	.....	.....	5	.....	5	.....	ese.	0	0	mod.	e.	fair.
S. S. City of Alexandria, N. 34° 29′, W. 75° 32′	.....	.....	64	17.8	.....	se.	.....	.....	7	.....	.....	.....	.....	.....	.....	hv'y	se.	overcast.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata	29.93	760.2	68	20.0	79	nne.	.....	.....	3–5	.....	10	.....	ne.	.....	.....	mod.	ne.	cloudy.
U. S. S. Pinta, S. 3° 20′, W. 38° 30′	29.96	761.0	79	26.1	91	e.	.....	.....	2	.....	2	.....	e.	.....	.....	.....	e.	clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.92	760.0	65.5	18.6	81	nne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Boadicea, S. 29° 30′, E. 12° 03′	30.02	762.5	68	20.0	.....	se.	.....	.....	3	.....	8	ese.	.....	.....	.....	4	ssw.	d. clouds.
H. M. S. Comus, S. 1° 40′, W. 21° 40′	29.96	761.0	77	25.0	100	se.	.....	.....	.	.....	7	ene.	.....	.....	.....	2	se.	showery.
H. M. S. Opal, S. 6° 16′, E. 12° 12′	29.88	758.9	76	24.4	86	ssw	.....	.....	1	.....	7	ssw.	.....	.....	.....	1	.....	d. clouds.
H. M. S. Tyne, S. 24° 55′, E. 5° 34′	29.95	760.7	72	22.2	85	e.	.....	.....	2	.....	9	.....	.....	.....	.....	2	se.	overcast.
S. S. Sirius, S. 21° 56′, W. 41° 15′	29.91	759.7	.....	.....	.....	wsw.	.....	.....	4	.....	1	.....	wsw.	1 h'r	1 h'r	mod.	se.	clear.
S. S. Strassburg, S. 2° 02′, W. 31° 23′	30.02	762.5	80.0	30.0	63	e.	.....	.....	3–4	.....	3	.....	e.	0	0	3	.....	clear.
Hk. Chas. Stewart, S. 3° 40′, W. 27° 25′ *†	30.05	763.3	80	26.7	.....	se.	.....	.....	6	.....	2	.....	se.	0	0	long	n.	clear.
Bk. Horace Scudder, S. 7° 11′, W. 1° 33′ *†	30.10	764.5	78	25.6	.....	sse.	.....	.....	3	.....	10	.....	ese.	0	0	light	se.	cloudy.
S. Parker M. Whitmore, S. 19° 30′, W. 24° 05′*†	30.00	762.0	79	26.1	.....	n.	.....	.....	2	.....	7	.....	n.	7 h'r	7 hr	sm'h	.....	cloudy.
S. David Stewart, Pernambuco, Brazil.†	29.85	758.2	86	30.0	.....	se.	.....	.....	4	.....	3	.....	se.	0	0	.....	.....	
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.74	755.4	43	6.1	43	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Adams, Sitka, Alaska†	29.50	749.3	35	1.7	91	ene.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	misty.
U. S. S. Alert, N. 19° 12′, W. 160° 24′	30.01	762.2	76	24.4	95	ene.	.....	.....	3	.....	2	.....	ene.	.....	.....	sm'h	.....	fair.
U. S. S. Essex, Canton, China	30.44	773.2	57	13.9	75	n	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Juniata, Shanghai, China	30.53	775.4	31	— 0.6	89	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Monocacy, Shanghai, China	30.56	776.2	35	1.7	80	wnw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Ranger, N. 5° 06′, W. 85° 02′	30.00	762.0	81	27.2	78	wnw.	.....	.....	3	.....	5	.....	.....	0	0	.....	.....	fair.
U. S. S. Richmond, Shanghai, China	30.54	775.7	38	3.3	72	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
H. M. S. Audacious, Hong Kong, China	30.34	770.6	58	14.4	53	ne.	.....	.....	1	.....	3	ne.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, off Amoy, China	30.24	768.1	55	12.8	74	e.	.....	.....	4	.....	0	.....	.....	.....	.....	sm'h	.....	blue sky.
H. M. S. Champion, Woosung, China	30.58	776.7	38	3.3	72	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	1	sw.	blue sky.
H. P. M. S. Pamega, near China	30.41	772.5	57.2	14.0	72	n.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	blue sky.
S. S. Oceanic, N. 32° 41′, E. 156° 54′	29.65	753.1	62	16.7	66	var.	.....	.....	6–8	.....	4	.....	sw.	sh'rs	sh'rs	6	wsw.	clear.
S. S. Oregon, Portland, Oregon	.....	.....	43	6.1	92	calm	.....	.....	0	.....	5	.....	sw.	.....	.....	.....	.....	fair.
S. S. Alameda, N. 35° 58′, W. 129° 56′ †	30.20	767.1	59	15.0	94	nw.	.....	.....	3	.....	5	.....	nw.	0	0	mod.	wnw.	hazy.
S. S. Ancon, Point Loma, Cal†	30.16	766.1	59	15.0	82	ne.	.....	.....	1	.....	0	.....	.....	0	0	mod.	w.	clear.
S. S. City of Chester, San Francisco, Cal.†	30.21	767.3	48	8.9	70	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	
S. S. Orizaba, N. 37° 00′, W. 119° 48′†	30.21	767.3	56	13.3	81	se.	.....	.....	3	.....	.....	.....	se.	0	0	long	sw.	fair
S. S. Queen of the Pacific, N. 46° 28′, W. 124° 46′†	29.57	751.1	51	10.6	86	s.	.....	.....	8	.....	2?	.....	sw.	4 h'r	4 h'r	long	sw.	cloudy.?
S. S. State of California, Astoria, Oregon†	29.67	753.6	50	10.0	86	s.	.....	.....	5	.....	10	.....	s.	.....	.....	.....	.....	squally.
S. S. City of Pekin, Yokohama, Japan†	29.68	753.9	42	5.6	83	n.	.....	.....	1	.....	0	.....	.....	.....	.....	mod.	.....	clear.
S. S. City of Tokio, N. 38° 22′, W. 123° 25′	30.21	767.3	48	8.9	85	nw.	.....	.....	6	.....	10	.....	nnw.	0	0	mod.	nw.	cloudy.
S. S. Colima, N. 15° 30′, W. 93° 54′†	30.03	762.7	77	25.0	91	nw.	.....	.....	6	.....	3	.....	nw.	0	0	mod.	nw.	clear.
S. S. Granada, N. 17° 51′, W. 102° 56′†	30.02	762.5	76	24.4	68	ese.	.....	.....	1	.....	0	.....	.....	0	0	light	wnw.	clear.
S. S. Radnorshire, N. 11° 40′, E. 109° 20′ *†	30.15	765.8	.....	.....	.....	nne.	.....	.....	6	.....	10	.....	nne.	6 hr	6 hr	h'vy	nne.	cloudy.
District No. 4—South Pacific.																		
U. S. S. Hartford, Valparaiso, Chili	30.04	763.0	64	17.8	100	ne.	.....	.....	0–1	.....	2?	.....	n.	.....	.....	sm'h	.....	cloudy?
U. S. S. Iroquois, S. 37° 24′, W. 74° 55′	30.10	764.5	54	12.2	?	wsw.	.....	.....	2	.....	2	.....	sw.	.....	.....	sm'h	sw.	clear.
U. S. S. Lackawanna, Valparaiso, Chili	30.08	764.0	62	16.7	77	calm	.....	.....	0	.....	2	.....	s.	.....	.....	.....	.....	clear.
U. S. S. Onward, Callao, Peru*†	30.14	765.5	67	19.4	84	se.	.....	.....	1	.....	10	.....	se.	.....	.....	sm'h	.....	cloudy.
U. S. S. Wachusetts, Callao, Peru *†	30.06	763.5	64	17.8	100	calm	.....	.....	0	.....	5	.....	s.	.....	.....	sm'h	.....	fair.
H. M. S. Diamond, S. 33° 52′, E. 151° 14′	30.12	765.0	70	21.1	85	nw.	.....	.....	2	.....	4	n.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.06	763.5	66	18.9	89	w.	.....	.....	3	.....	10	.....	.....	.....	.....	sm'h	.....	overcast.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	30.02	762.5	64	17.8	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.44	747.8	58	14.4	100	nw.	.....	.....	1–3	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.31	744.5	48.7	9.3	92	sse.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Australia, S. 18° 04′, W. 172 52′	30.07	763.8	82	27.8	.....	ese.	.....	.....	4	.....	6	.....	s.	0	0	mod.	ese.	hazy.
S. S. City of Sydney, S. 34° 51′, E. 176° 14′*†	30.04	763.0	66	18.9	94	w.	.....	.....	2	.....	10	.....	.....	.....	.....	light	ne.	foggy.
Bk. Alpheus Marshal, S. 4° 58′, E. 169° 14′ *†	29.68	753.9	82	27.8	87	wsw.	.....	.....	2	.....	3	.....	wsw.	½h'r	½h'r	light	wnw.	clear.
S. S. George S. Homer, S. 14° 06′, W. 120° 55′*†	29.98	761.5	.....	.....	.....	e.	.....	.....	4	.....	6	.....	e.	0	0	mod.	se.	fair.
Bk. Godeffroy, S. 53° 51′, W. 79° 13′	29.32	744.7	46.2	7.9	99	ssw.	.....	.....	4–5	.....	10	.....	.....	light	light	mod.	ne.	misty.
S. St. Francis, S. 42° 45′, W. 86° 30′*†	30.10	764.5	55	12.8	81	nw.	.....	.....	5	.....	10	.....	nw.	6 h'r	6 h'r	mod.	nw	raining.
S. St. David, S. 56° 52′, W. 70° 40′ *†	29.52	749.8	50.0	10.0	79	ese.	.....	.....	2	.....	9	.....	var.	0	0	sm'h	.....	cloudy.
S. S. Grecian, S. 11° 55′, W. 127° —′†	30.08	764.0	78	25.6	78	e.	.....	.....	5	.....	3	.....	e.	0	0	long	s.	clear.
S. Henry Failing, S. 18° 14′, W. 124° 43′ *†	30.10	764.5	82	27.8	91	e.	.....	.....	5	.....	3	.....	e.	4 h'r	4 h'r	long	sse.	rainy.
H. M. S. Espiegle, S. 39° 10′, E. 178° 19′	29.91	759.7	66	18.9	89	nne.	.....	.....	4	.....	0	.....	.....	.....	.....	1	n.	blue sky.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Johanna, Comoro Island, Africa	29.85	758.2	85	29.4	87	nne.	8	3.6	.....	.....	5	.....	nne.	0.21	5.3	sm'h	.....	fair.
U. S. S. Pensacola, S. 15° 28′, E. 70° 38′*	29.87	758.7	80	26.7	82	e.	.....	.....	2	.....	2	.....	e.	light	light	long	e.	clear.
H. M. S. Coquette, N. 15° 36′, E. 39° 21′	30.01	762.2	80	26.7	78	ne.	.....	.....	2	.....	5	sw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.95	760.7	70	21.1	75	n.	.....	.....	4	.....	9	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Orontes, N. 6° 30′, E. 69° 30′†	29.94	760.5	80	26.7	?	ne.	.....	.....	3	.....	4	ne.	.....	.....	.....	1	ne.	d. clouds.
H. M. S. Tourmaline, Tenerive, Madagascar	30.00	762.0	81	27.2	78	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Galatea, N. 12° 08′, E. 49° 30′†	30.00	762.0	76	24.4	95	ne.	.....	.....	4	.....	2	.....	ne.	.....	.....	mod.	ne.	clear.
S. S. Benalder, N. 6° —′, E. 95° 30′*	29.97	761.2	83	28.3	87	se.	.....	.....	4	.....	6	.....	var.	0	0	sm'h	.....	fair.
S. S. Port Philip, N. 12° 25′, E. 44° 05′*	29.97	761.2	82	27.8	.....	e.	.....	.....	7	.....	.....	.....	.....	.....	.....	h'vy	se.	cloudy.
S. Carondelet, S. 22° 37′, E. 111° 42′*†	29.96	761.0	.....	.....	.....	w.	.....	.....	3	.....	1	.....	w.	0	0	sm'h	sse	clear.
S. S. Lepanto, N. 18° 27′, E. 71° 45′	30.05	763.3	78	25.6	.....	ene.	.....	.....	3	.....	5	.....	ne.	0	0	light	ne.	fair.
H. M. S. Magpie, N. 6° 43′, E. 98° 58′	29.95	760.7	82.4	28.0	63	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	2	ne.	blue sky.

International Chart I. January 8, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 9, 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.33	770.3	61.2	16.2	77	sw.			4		0			0	0	clear	Roziere.
Algiers			30.27	768.9	53.2	11.8	56	n.			6		8			0.181	4.6	very cloudy.	Aubert.
La Galle			30.00	761.9	55.8	13.2	80	nw.			5		6			2.059	52.3	cloudy	Fonfrede.
Tunis			30.01	762.3	54.7	12.6	70	nw.			4		4			0.118	3.0	cloudy	Delord.
Tebessa					46.8	8.2	98	w.			7		7			0	0	very cloudy	Hans.
Geriville					41.0	5.0	57	nne.			4		2			0	0	fair	Forfert.
Laghouat			30.32	770.1	54.0	12.2	91	nw.			4		1			0	0	very fair	Abraham.
Biskra			30.19	766.9	52.9	11.6	46	n.			4		4			0	0	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			30.12	765.0	66.6	19.2	63	se	3	1.3		4 c				0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.64	752.8	29.82	757.4	57	13.9	65	w.			3		6		w.	0	0	fair	Com. I. Short, R.N.
Melbourne, Victoria	30.03	762.7	30.13	765.3	62.8	17.1	82	s.	9	4.0			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.93	760.2	30.50	774.8	41.7	5.4	44	ne.			3		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.67	753.6	30.48	774.3	32.4	0.2	89	nw.	0	0			1			0	0		Dr. Wierzbiski
Eperies	29.54	750.4	30.50	774.6	22.6	— 5.2	80	calm			0	5 cs				0	0		Julius Mikolik.
Gratz	29.21	741.8	30.53	775.5	32.0	0.0	85	s.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.96	735.5	30.47	773.8	35.2	1.8	71	w.			2		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	29.10	739.2	30.51	775.0	38.3	3.5	87	e.			1		0			0	0	clear	The Staff.
Lemberg	29.43	747.5	30.49	774.4	28.2	— 2.1	83	w.			3		9			0	0		Dr. T. Stanecki.
Pola	30.24	768.0	30.35	770.9	48.2	9.0	45	ene.			7		0			0	0		I. R. Hydrographic Office.
Szathmar	29.98	761.6	30.49	774.4	25.9	— 3.4	87	n.			2		0			0	0		Joseph Midlinszky, S. J
Szegedin	30.20	767.0	30.49	774.5	36.0	2.2	70	n.			1		4			0	0		Karl Stancel.
Trieste	30.30	769.6	30.40	772.1	45.3	7.4	49	e.			6		0			0	0		Royal Academy.
Vienna	29.77	756.2	30.51	775.0	43.9	6.6	64	w.			1		1			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.91	734.4	30.34	770.7	39.2	4.0	98	sw.			2		8			0.039	1.0	fog & mist	
Brussels	30.16	766.1	30.37	771.3	47.7	8.7	88	wsw.			3		10		wsw.	0.012	0.3		
Furnes	30.40	772.2	30.42	772.7	49.8	9.9	83	ssw.			1		8			0	0		
Maeseyck	30.22	767.6	30.35	770.8	47.3	8.5	88	w.			2		10			0.012	0.3		
British.																			
Aberdeen	29.65	753.1	29.75	755.6	50.7	10.4	84	ssw.	11	4.9			6			0	0	d. clouds	W. Boswell.
Bidston, Liverpool Obs'y			30.11	764.8	52.2	11.2	79	sw.	5	2.2			4					d. clouds	John Harnup.
Bolton, Sharples	29.55	750.6	30.09	764.3	49.6	9.8	89	sw.	18	8.0			7					misty	Thomas Mackereth.
Bradford, Yorkshire	29.68	753.9	30.07	763.8	51.1	10.6	81	s.			4		10			blank	blank	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.092	762.5	30.05	763.3	81	27.2	70	ne.			2		2					blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	30.15	765.8	30.27	768.8	47.8	8.8	89	w.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	30.14	765.5	30.32	770.1	48.5	9.2	87	w.			1		10			blank	blank	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.16	766.1	30.40	772.1	51.5	10.8	86	sw.			5		6					d. clouds	The Staff.
Fort Napier, Natal	27.52	699.0	29.83	757.7	78.8	26.0	64	ne.			1		9					overcast	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.78	756.4	85	29.4	57	n.			1		4					d. clouds	J. W. Smith.
Galway, Queen's College	29.94	760.5	29.98	761.5	52	11.1	86	w.			7		8			0	0	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.28	769.1	30.34	770.6	60.8	16.0	89	ne.			4		7					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	30.14	765.5	30.31	769.9	50.0	10.0	82	wsw.			4		10					overcast	The Staff.
Guernsey	29.977?	761.2?	30.27?	768.8?	52.0	11.1	96	w.			1		3					blue sky	A. Collenette, F.R.M.S.
Kew, Observatory	30.29	769.4	30.32	770.1	50.0	10.0	79	wsw.	14	6.3			9					d. clouds	The Staff.
Leicester, Museum	29.94	760.5	30.20	767.1	49.8	9.9	82	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.87	758.7	29.95	760.7	59.0	15.0	56	nw.			2		10			0	0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.10	764.5	65.0	18.3	68	nw.			3		5					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.06	763.5	30.28	769.1	51.1	10.6	86	sw.			6		9					overcast	The Staff.
Plymouth	30.32	770.1	30.40	772.1	51.2	10.7	93	sw.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.56	750.8	29.66	753.4	44.8	7.1	70						8					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.25	768.3	30.32	770.1	43.0	6.1	92	calm			0		10					raining	W. H. Lyne.
Sheffield	29.85	758.2	30.13	765.3	51.5	10.8	86	sw.			2		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.91	759.7	29.94	760.5	49.8	9.9	92	sw.			6		6			0.090	2.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.08	764.0	50.2	10.1	82	wsw.	27	12.1			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					49.6	9.8	89	w.			2.5		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.13	765.3	30.16	766.1	52.8	11.6	84	sw.	44	19.7			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.61	752.1	30.01	762.2	54.0	12.2	86	e.	1.9	0.8			10 n			0	0	hazy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.23	767.8	30.27	768.8	5.0	—15.0		calm	0	0			10 n			0.500	12.7	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.28	769.1	30.32	770.1	17	— 8.3	82	se.	5	2.2			10 n		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.20	767.1	30.27	768.8	4	—15.6	100	sw.	2	0.9			10 s		sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	28.99	736.3	29.19	741.4	23.9	— 4.5	97	e.			5		10 s			0.350	8.9	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.20	767.1	30.25	768.3	11.5	—11.4		e.			2		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.04	763.0	30.06	763.5	13	—10.0	80	ne	14	6.3			10 n		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.80	731.5	29.74	755.4	— 6	—21.1	100	s.	4	1.8		0	5 s		s.	0	0	fair	James Stewart.
Fredericton, N. B.	30.05	763.3	30.12	765.0	16.0	— 8.9	66	ne.	4	1.8			10 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B.	29.96	761.0	30.01	762.2	33	0.6	85	se.	24	10.7			10 n		se.	0.02	0.5	light rain	J. Chipman Seeley
Granton, Ontario	28.34	719.8	29.50	749.3	17.4	— 8.1	94	nw.	2	0.9			10 n			0.400	10.2	snowing	Jas. Grant.
Halifax, N. S*	30.17	766.3	30.30	769.6	31	— 0.6	88	e.	18	8.0		10 k	0			0	0	cloudy	A. Allison.
Hamilton, Ontario	29.01	736.8	29.45	748.0	18.5	— 7.5	92	w.			1	10 cs	0	sw.		2.300	58.4	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	28.90	734.0	29.25	742.9	22	— 5.6	96	ne.	13	5.8			10 n		ne.	2.30	58.4	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.37	771.4	30.41	772.4	14.0	—10.0	96	sw.	2	0.9			10 n			0	0	overcast	C. H. Rigby.
London, Ontario	28.85	732.8	29.82	757.4	18.3	— 7.6	90	nw.			2		10 n			1.20	30.5	snowy	E. B. Reed.
Medicine Hat, N. W. T.	27.39	695.7	29.83	757.7	11	—11.7	96	nw.	2	0.9		8 cs	0			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	27.59	700.8	29.70	754.4	— 1	—18.3	95	ne.	2	0.9		0	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	29.15	740.4	29.37	746.0	20	— 6.7	100	ne.	9	4.0			10 n			0.56	14.2	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	29.08	738.6	29.31	744.5	25.6	— 3.6	97	ne.					10 s			0.60	15.2	snowing	A. McGill, M. A.
Parry Sound, Ontario*	28.71	729.2	29.45	748.0	11	—11.7	91	n.	10	4.5			10 n		n.	0.28	7.1	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.53	724.6	29.33	745.0	19.5	— 6.9	88	sw.			3		10 kn			0.270	6.9	snowing	Wm. O'Connor, M.A.
Port Arthur	29.02	737.1	29.80	756.9	— 2	—18.9	87	calm	0	0			10 ks		w.	0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	28.67	728.2	29.43	747.5	17	— 8.3	100	nw.	16	7.2			10 n			1.32	33.5	light snow	R. Morgan.
Port Stanley, Ontario	28.81	731.8	29.49	749.0	20	— 6.7	76	nw.	16	7.2			10 n			0.41	10.4	cloudy	M. Payne.
Qu Appelle, N. W. T	27.26	692.4	29.66	753.4	13	—10.6		nw.	8	3.6		10 cs	0	nw.		0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.30	744.2	29.68	753.9	18	— 7.8	87	ne.	20	8.9			10 s		ne.	0.60	15.2	heavy snow	Capt. Asne, R. N.
Rockliffe, Ontario*	28.91	734.3	29.39	746.5	17	— 8.3	83	se.	3	1.3			10 n			1.35	33.8	heavy snow	W. H. McIntyre
St. Andrews, N. B.	29.94	760.5	29.99	761.7	28	— 2.2	96	se.	25	11.2			10 n			0.02	0.5	heavy snow	
St. John, N. B	29.93	760.2	30.08	764.0	28.0	— 2.2	89	ne.	24	10.7			10 n					snow & hail.	G. Hutchinson.
Saint John's, N. F.																			J. Higgins.
St. Pierre, N. F.			30.39	772.0	24.8	— 4.0		nw.			1								The Commandant.
Saugeen, Ontario*	28.74	730.0	29.50	749.3	16	— 8.9	100	n	18	8.0			10 ks			0.09	2.3	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Mc Bride, M. A.
Sydney, C. B*	30.38	771.6	30.48	773.4	4	—15.6	100	calm	0	0	.....	2 cs	0	.....	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	28.98	736.1	29.38	746.2	19	— 7.2	87	nw.	15	6.7	.....	.....	10 n	.....	.....	1.50	38.1	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.35	720.1	29.47	748.5	17.6	— 8.0	86	w.	14	6.3	.....	.....	10 s	.....	.....	0.800	20.3	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.89	759.2	29.96	761.0	34	1.1	92	e.	25	11.2	.....	.....	10 n	.....	e.	c.06	1.5	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.02	762.5	30.05	763.3	69.5	20.8	90	sw.	.....	.....	.....	0	8 ks	.....	.....	0	0	stormy	I. Garfelt.
Cape Town, The Castle	29.93	760.2	.....	.....	73.0	22.8	48	ssw.	.....	.....	.....	1 c;k	0	.....	.....	0	0	.....	Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4	.....	.....	84	28.9	36	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	J. F. Eustace
Chilian.																			
Coquimbo	29.98	761.6	30.06	763.6	62.6	17.0	90	n.	.....	.....	3	10	0	.....	.....	.....	.....	cloudy	Samuel Redolez.
Iquique	29.94	760.5	29.97	761.2	67.1	19.5	86	sw.	.....	.....	3	.....	.....	.....	.....	.....	.....	foggy	Rafael Moreno.
Niebla	29.61	752 1	29.72	754.8	59.4	15.2	75	e.	.....	.....	1	0	3 n	.....	sw.	0	0	fair	Federico Köhling.
Punta Caldera	29.89	759.3	29.98	761.5	65.3	18.5	67	sw.	.....	.....	1	4 s	0	sw.	.....	.....	.....	fair	Manuel Tobar.
Punta Corona	29.93	760.3	30.12	765.0	.....	.....	.....	nw.	.....	.....	3	.....	10	.....	.....	0.197	5.0	raining.	Francisco Alvarado.
Valparaiso	29.91	759.6	30.04	763 1	64.4	18.0	77	se.	.....	.....	.....	0	4	.....	.....	.....	.....	fair	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai.	30.49	774.4	30.51	775.0	35.4	1.9	76	calm	0	0	.....	.....	0	.....	.....	0	0	.....	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.06	763.5	30.11	764.7	38.3	3.5	98	ssw.	18	8	.....	.....	10	.....	.....	.....	.....	foggy	Oversergent Fischer.
Fanö	30.02	762.4	30.04	762 9	41.4	5.2	97	wsw.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.20	741.6	29.24	742.7	6.4	—14.2	100	nnw.	.....	.....	2-4	.....	10	.....	.....	.....	.....	snowing	S. Kleinschmidt.
Stykkisholm, Iceland	28.48	723.4	28.52	724 5	28.4	— 2.0	92	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.34	745.1	29.36	745.7	36 9	2.7	80	w.	23.5	10.5	.....	.....	6	.....	.....	.....	.....	.....	Overloerer Bergh
Vestervig	29.81	757.2	29.91	759.6	41.9	5.5	99	sw.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	Loerer Oesterbol
Egyptian.																			
Cairo	30.21	767.4	.....	.....	62.6	17	.....	s.	2.2	1.0	.....	0	0	.....	.....	0	0	.....	Albert Ismaiun.
French.																			
Agen, Normal School	29.97	761.1	30.63	778 1	46.0	7.8	91	n.	.....	.....	1	c	n;kn	nw.	nw.	0.181	4.6	.....	M. Labroue, Director.
Alençon, Normal School	29.99	761.8	30.54	775.8	47.8	8.8	95	sw.	.....	.....	1	.....	10 n	.....	.....	0.47	12.	covered	M. Nicot, Director
Arras, Normal School	.....	.....	30.35	771.0	48.6	9.2	85	wsw.	.....	.....	4	.....	5	.....	wsw.	0.028	0.7	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.27	768.8	30.35	770.8	48.9	9.4	52	nnw.	.....	.....	6	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.96	760.9	30.54	775.6	42.6	5.9	94	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Saillard, Director
Beauvais, Normal School	30.20	767.1	30.48	774 1	49.8	9.9	81	wsw.	.....	.....	1	.....	8	.....	.....	0.094	2.4	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.57	751.0	30.49	774.4	44.6	7	83	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.31	769.9	30.58	776.8	47.8	8.8	92	n.	.....	.....	1	.....	10	.....	.....	0.039	1.0	covered	M. Rayet, Director.
Bourges, Normal School	30.00	761.9	30.57	776.4	46.0	7.8	97	w.	.....	.....	1	.....	.....	.....	.....	0.031	0.8	foggy	M. Sauvageot, Director.
Brest, Naval Observatory	30.28	769.0	30.52	775.2	52.9	11.6	90	sw.	.....	.....	2	.....	4	.....	sw.	0	0	.....	M. de Kermarée, Dir.
Caen, Normal School	30.36	771.1	30.44	773.2	50.7	10.4	100	sw.	.....	.....	1	.....	10	.....	.....	0.16	4.	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	30.11	764.8	30.44	773.2	45.0	7.2	94	sw.	.....	.....	1	.....	10	.....	.....	0.020	0.5	covered	M. Jadot, Director.
Charleville, Normal School	29.87	758.8	30.39	772.0	41.4	5.2	87	se.	.....	.....	1	.....	10	.....	.....	0.08	2.	rain & fog	M. Noël, Director.
Clermont-Ferrand Obs'y	29.16	740.6	30.58	776.6	41.4	5.2	83	wnw.	.....	.....	1	.....	10	.....	.....	0.028	0.7	misty	M. Alluard, Director.
Cluny, Normal School	29.68	753.8	30.59	777.0	43.5	6.4	79	w.	.....	.....	1	.....	6	.....	nw.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.44	747.8	30.33	770.3	41.4	5.2	94	w.	.....	.....	1	.....	5 n	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27 78	705 5	30.39	772.0	41.4	5.2	46	e.	.....	.....	6	.....	0	.....	.....	0	0	.....	M. Jarach, Director.
Gréasque, du Rhone	29.17	741.0	30.32	770.2	50.9	10.5	74	n.	.....	.....	1	.....	1	.....	sw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.69	754.2	30.49	774.5	46.4	8	70	ne.	.....	.....	1	.....	k	.....	ne.	0	0	.....	M. Ablard, Director.
Guéret, Normal School	28.96	735.6	30.61	777.6	42.4	5.8	97	se.	.....	.....	4	.....	10 n	.....	se.	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Poilpre, Director
Lescar, Normal School	30.00	761.9	30.55	776.0	53.6	12.0	74	w.	.....	.....	1	.....	5 n	.....	.....	0.201	5.1	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.47	773.9	30.57	776 5	54.3	12.4	81	ssw.	.....	.....	1	.....	8	sw.	ssw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.43	747.4	30.53	775.5	43.5	6.4	60	n.	.....	.....	4	c	.....	.....	nne.	0	0	clear	M. André, Director.
Mans, Normal School	30.24	768.1	30.56	77 .1	47.3	8.5	.....	w.	.....	.....	1	.....	8 n	.....	nw.	0.177	4.5	very cloudy	M. Richard, Director
Marseille, Observatory	30.02	762.5	30.29	769.4	55.8	13.2	45	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Stephan, Director.
Montlouis	25 09	637.3	29.93	760.3	37.4	3.0	63	ne.	16.8	7.5	.....	.....	9	.....	.....	0.205	5.2	.....	M. Cave for Dr. Fines.
Montpellier, Normal School	30.22	767.5	30.33	770.3	57.9	14.4	63	n.	.....	.....	4	.....	0	.....	.....	0	0	clear	M. Gaizin, Director.
Nancy, Normal School	29.317	744.5?	30.127	765.0?	42.8	6.0	88	sw.	.....	.....	1	.....	kn	.....	.....	0.039	1.0	.....	M. Hasse, Director.
Nantes, Observatory	30.43	773.0	30.60	777.1	46.0	7.8	97	wsw.	.....	.....	0-1	.....	10	.....	.....	0.138	3.5	.....	M. Larocque, Director.
Perpignan, Observatory	30.30	769.7	30.42	772.6	55.0	12.8	61	nw.	24.2	10.8	.....	.....	2	.....	nw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.50	546.2	.....	.....	21.2	— 6.0	.....	ne.	.....	.....	4	.....	5	.....	ne.	1.181	30.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.35	745.5	30.45	773 4	47.8	8.8	63	nw.	.....	.....	1	.....	n	w.	w.	0	0	.....	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.48	647.2	.....	.....	30.4	— 0.9	100	n.	.....	.....	3	.....	2	.....	.....	0.091	2.3	.....	M. Alluard.
Rochefort, Naval Obs'y	30.57	776.4	30.60	777.2	50.7	10.4	93	calm	.....	.....	0	.....	5	.....	w.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.28	769.2	30.51	774.9	47.1	8.4	92	w.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.30	718 9	30.54	775.8	38.8	3.8	.....	w.	.....	.....	1	.....	10	.....	e.	0	0	covered	M. Seger, Director.
Rouen, Normal School	30.42	772 6	30.47	773.8	50.4	10.2	86	w.	.....	.....	1	.....	5	w.	.....	0.138	3.5	cloudy	M. Mouillot, Dir.
St. Lô, Normal School	.....	.....	30.34	770.6	51.3	10.7	84	w.	.....	.....	1-2	.....	5	nw.	nw.	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.34	770.5	30.50	774.7	48.6	9.2	85	sw.	.....	.....	1	.....	.....	.....	w.	0.122	3.1	.....	M. Renou, Director.
Toulouse, Observatory	29.86	758.4	30.60	777.1	45.1	7.3	99	nw.	.....	.....	1	.....	10	nw.	.....	0.118	3.0	covered	M. Baillaud, Director.
Tours	30.38	771 6	30.56	776 1	50.0	10.0	84	sw.	.....	.....	1	.....	5	wnw.	sw.	0.217	5.5	cloudy	M. de Tastes.
Versailles, Observatory	29.99	761.8	30.48	774.3	47.1	8.4	86	w.	.....	.....	1	.....	.....	.....	.....	0.043	1.1	.....	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.43	773.0	30.58	776.8	53.1	11.7	69	n.	7.8	3.5	.....	c	4 k	n.	nw.	0.043	1.1	.....	M. Cartier, Director.
German.																			
Ansbach	28.99	736.4	30.51	775.0	39.9	4.4	76	w.	.....	.....	2	.....	6	w.	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.56	750.7	30.41	772.4	41.0	5.0	60	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.20	767.1	30.35	770 9	38.1	3.4	87	s.	.....	.....	2	.....	2	.....	.....	0	0	.....	Meteorological Institute
Breslau	29.90	759 5	30.44	773.2	38.7	3.7	80	s.	.....	.....	2	.....	8	.....	.....	0	0	foggy	Royal University Obs'y
Carlsruhe	30.03	762.7	30.51	774.9	44.6	7.0	68	sw.	.....	.....	3	.....	5	n.	.....	0	0	.....	Albert Senz.
Cassel	29.62	752.3	30.33	770.4	38.1	3.4	93	s.	.....	.....	4	.....	10	s.	.....	0.142	3.6	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.06	763.5	30.44	773.2	41.0	5.0	87	sw.	.....	.....	1	.....	10	.....	.....	0.068	0.2	.....	Physical Society.
Friedrichshafen	29.06	738.0	30.54	775.7	39.6	4.2	77	ssw.	.....	.....	1	.....	6	w.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.15	765.8	30.24	768.1	40.8	4.9	97	sw.	.....	.....	4	.....	10	.....	.....	0.059	1.5	light fog	E. Preller.
Kiel	30.13	765.3	30.15	765.7	41.2	5.1	95	wsw.	.....	.....	2	.....	10	.....	.....	0.016	0.4	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.96	760.9	30.39	772.0	39.9	4.4	80	nw.	.....	.....	2	.....	8	wnw.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.13	765.2	30.33	770.3	41.0	5.0	76	ssw.	.....	.....	1	.....	10	.....	.....	0.004	0.1	.....	Weather Observatory.
Memel	30.34	770.6	30.39	771 8	25.2	— 3.8	75	sse.	.....	.....	3	9 ck	.....	.....	.....	.....	.....	.....	Issermann.
Munich	28.62	727.0	30.52	775.1	39.4	4.1	66	nw.	.....	.....	1	.....	1	.....	.....	0	0	.....	Central Station.
Neufahrwasser	30.34	770.5	30.35	770.9	32.0	0.0	92	s.	.....	.....	2	.....	10	.....	.....	0.004	0.1	.....	A. Lothes.
Neustadt, Palatinate	29.83	759.0	30.42	772.6	46.9	8.3	69	w.	.....	.....	1	.....	3	w.	.....	0	0	.....	Dickneither.
Stuttgart	29.51	749.6	30.44	773 2	43.5	6.4	72	sw.	.....	.....	1	.....	7	w.	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.19	766.8	30.21	767.4	39.4	4.1	87	ssw.	.....	.....	3	.....	10 s	.....	.....	0	0	.....	Profs. Brandes & Reimer
Greek.																			
Athens	29.86	758.5	30.25	768.3	58.3	14.6	.....	n.	.....	.....	0.5	.....	9	.....	.....	0.016	0.4	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.01	762.3	30.06	763.6	73.5	23.1	58	wsw.	17.0	7.6	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.59	751.6	30.07	763.7	83.7	28.7	11	s.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	30.02	762.5	30.06	763.4	77.9	25.5	69	nw.	13.0	5.8	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.19	716.1	30.06	763.5	79.8	26.6	18	ene.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.48	697.9	30.03	762.7	76.2	24.6	31	ene.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.32	744.7	30.10	764 5	62.6	17.0	62	calm	0	0	.....	.....	4	.....	.....	0	0	d. clouds	
Roorkee	29.18	741.1	30.12	764.9	62.8	17.1	57	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Agra	29.53	750.0	30.11	764.9	71.2	21.8	40	nw.	.....	.....	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	29.05	737.8	30.11	764.8	73.7	23.2	28	calm	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.73	729.7	30.12	765.1	69.4	20.8	37	calm	0.8	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.72	754 8	30.11	764.8	68.3	20.2	37	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.80	756.8	30.12	765.2	63.2	17.3	64	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.93	760 2	30.12	765.1	67.0	19.4	51	w.	2.1	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	28.03	712.0	30.11	764.9	64.5	18.1	36	ene.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	30.01	762.3	30 10	764 4	71.4	21.0	60	nnw.	.....	.....	.....	.....	0	.....	.....	0	0	d. clouds	
Calcutta, Alipore	30.07	763.7	30.09	764.3	65.8	18.8	66	w.	0.5	0.2	.....	.....	2	.....	.....	0	0	blue sky	
Dhubri	29.97	761.2	30.10	764.4	66.3	19.1	59	calm	0	0	.....	.....	0	.....	.....	0	0	d. clouds	
Chittagong	29.99	761.8	30.09	764.2	66.4	19.1	66	wnw.	2.1	0.9	.....	.....	1	.....	.....	0	0	blue sky	
Sibsagar	29.75	755.7	30.11	764.8	58.8	14.9	81	sw.	1.0	0.4	.....	.....	2	.....	.....	0	0	blue sky	
Jeypore	28.63	727.1	30.10	764.6	72.6	22.6	38	w.	3.0	1.3	.....	.....	2	w.	.....	0	0	blue sky	
Zanzibar	29.87	758.8	29.99	759 3	85.4	29.7	61	ne.	3.1	1.4	.....	.....	5	n.	.....	0.02	0.5	d. clouds	
Bellary	28.53	724 6	.....	.....	79.0	26.1	21	e.	4	1.8	.....	0	0	.....	.....	0	0	blue sky	
Trichinopoly	29.77	756.1	.....	.....	80.1	26.7	60	ene.	0.2	0.1	.....	2	3	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	30.02	762.5	30.45	773.3	46.8	8.2	37	ne.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.96	760.9	30.50	774.7	43.0	6.1	57	se.	5.6	2.5	.....	.....	1	.....	.....	0	0	.....	Prof. G.V.Schiapparelli
Padua	30.24	770.6	30.45	773.5	44.6	7.0	47	ne.	9.8	4.4	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.53	750.0	30.48	774.2	41.9	5.5	55	nnw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.13	765.3	30.33	770.3	48.7	9.3	37	n.	11.2	5.0	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Pesaro	30.31	769.8	30.36	771.1	47.8	8.8	76	ne.	7.4	3.3	.....	.....	1	ne.	.....	1.122	28.5	.....	Prof. Luigi Guidi.
Florence	30.00	762.0	30.26	768.7	48.6	9.2	42	ne.	.....	.....	8	.....	2	.....	.....	0.620	0.5	.....	Prof. Costantino Pittei
Leghorn	30.13	765.2	30.21	767.4	48.6	9.2	46	ne.	23.7	10.6	.....	.....	4	ne.	.....	0	0	.....	Prof. P. Monte.
Rome	29.90	759.5	30 08	764.1	53.8	12.1	44	n.	10.5	4.7	.....	.....	9	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.87	758.6	30.13	765.2	59.0	15.0	76	se.	14.3	6.4	.....	.....	9	se.	.....	0.031	0.8	.....	Prof. C. de Giorgi.
Cosenza	29.18	741.1	30.10	764.5	51.8	11.0	75	s.	2.5	1.1	.....	.....	3	sse	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.73	755.2	29.93	760.2	52.7	11.5	66	ne.	.....	.....	2	.....	10	.....	.....	0.453	11.5	.....	Prof. A. Pacinotti.
Palermo	29.71	754 7	29.97	761.2	57.0	13.9	63	calm	0	0	.....	.....	7	sw.	.....	0.047	1.2	.....	Prof. G. Cacciatore.
Syracuse	29.93	760.3	29.98	761.5	57.6	14.2	65	e.	1.8	0.8	.....	.....	10	sse.	.....	0.067	1.7	.....	Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.54	750.2	30.07	763 7	52.0	11.1	89	ne.	0	0	.....	.....	10	sse.	.....	1.378	35.0	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	29.72	754.8	29.75	755 7	23.0	— 5.0	100	nw.	.....	.....	6	.....	10 n	.....	nw.	0.165	4.2	snowing	H. Hattori.
Awomori	29.64	752.8	29.68	753.9	20.3	— 6.5	58	ssw.	3.0	1.3	.....	.....	9ks:s	.....	w.	0.095	2.4	cloudy	K. Ogawa.
Hakodate	29.61	752.2	29.62	752.5	24.5	— 4.2	87	w.	25.2	11.3	.....	.3cs	0	nw.	.....	0	0	clear	Y.Souma.
Hamamatsu	29.80	756.9	29.90	759.4	30.4	— 0.9	71	w.	.....	.....	7	0	0	.....	.....	c	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.15	765.9	30.17	766.3	28.1	— 2.2	93	n.	1.0	0.4	.....	.....	10 s	.....	n.	0.008	0.2	cloudy	Y. Okamoto.
Kagoshima	30.27	768.8	30.28	769.1	37.9	3.3	84	n.	.....	.....	2	.....	10 s	.....	nw.	0 028	0.7	overcast	
Kanazawa	29.83	757.8	29.94	760.5	25.0	— 3.9	94	se.	7.8	3.5	.....	.....	10 n	.....	.....	1.388	35.2	snowing	S. Endo.
Kioto	29.84	758.0	30.02	762.4	26.6	— 3.0	79	w.	3.3	1.4	.....	1 cs	0	.....	.....	0.012	0.3	clear	M. Tojima.
Kochi	30.10	764.7	30.13	765.2	32.5	0.3	64	w.	8.8	3.9	.....	2 ck	0	nw.	.....	0	0	clear	K. Kusunose.
Miasaka	30.19	766.8	30.22	767.5	37.0	2.8	61	wnw.	.....	.....	6	0	1 ks	.....	w.	0	0	clear	K. Masusaki.
Miyako	29.55	750 5	29.66	753.3	24.8	— 4.0	81	ssw.	5.5	2.4	.....	.....	10 s	.....	.....	0	0	cloudy	N.Honno & K.Suwa.
Nagasaki, I. M. Obs'y	30.09	764.3	30.31	769.9	36.8	2.7	69	nw.	9.0	4.0	.....	.....	10 s	.....	nw.	0.030	0.8	overcast	
Nagnsaki, I. M. Obs'y	29.53	750.1	29.58	751.3	21.0	— 6.1	71	calm	0	0	.....	3 c	3 s	w.	.....	0	0	clear	A Shibuya.
Nemuro	29.78	756.4	29.82	757.4	27.6	— 2.4	77	n	13.3	5.9	.....	.....	10 n	.....	.....	1.710	43.4	light snow	Satoo & Tomikawa.
Niigata	29.64	752.9	29.66	753.3	24.5	— 4.2	64	nnw.	21.5	9.6	.....	.....	10n;ks	.....	.....	0.180	4.6	snowy	Yoshino & Midzushina.
Nobiru	29.75	755.6	29.79	756.6	34.4	1.3	76	w.	.....	.....	6	0	1 s	.....	.....	0	0	clear	T.Ohgi.
Numadzu	30.03	762.8	30.05	763.3	28.0	— 2.2	55	w.	28.8	12.9	.....	0	0	.....	.....	0	0	clear	H. Omura.
Osaka	30.07	763.9	30.08	764.1	25.7	— 3.5	62	w.	.....	.....	4	.....	10 ks	.....	w.	0.401	10.2	cloudy	Yamawchi & Sakamoto.
Sakai	29.43	747.6	29.50	749.4	23.5	— 4.7	73	w.	30.6	13.7	.....	0	7 s	.....	.....	0.041	1.0	cloudy	S. Kimura.
Sapporo	30.00	762.1	30.15	765.8	34.4	1.3	64	w.	.....	.....	6	.....	10 ks	.....	.....	0.008	0.2	cloudy	S. Sakano.
Shimonoseki	29.65	753.0	29.72	755.0	32.9	0.5	46	nnw.	21.6	9.6	.....	0	0	.....	.....	0	0	clear	The Staff.
Tokei Obs'y, Yeddo	30.04	763.1	30.10	764.5	30.4	— 0.9	50	w.	10.5	7.4	.....	0	0	.....	.....	0	0	clear	K. akai & S.Takeda.
Wakayama																			
MAURITIUS.																			
Mauritius R. A. Observatory	29.8:	757.2	30.00	762.0	80.7	27.1	73	e.	8.5	3.8	.....	3c;cs	0	.....	e.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.36	618.7	30.30	769.6	39.4	4.1	78	n.	0.8	0.4	.....	0	0	.....	.....	0	0	clear	M. Leal & M.Pina.
Mazatlan	29.81	757.2	30 08	763.9	65.0	18.3	81	e.	5.3	2.3	.....	0	0	.....	.....	0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.32	770 2	30.32	770.2	46.6	8.1	.....	wsw.	.....	.....	5	.....	.....	.....	.....	0.024	0.6	.....	
Groningen	30.21	767.2	30.26	768 6	43.5	6.4	.....	wsw.	.....	.....	2	.....	.....	.....	.....	0.031	0.8	.....	
Helder	30.20	767 1	30.20	767.1	45.7	7.6	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.29	769 4	30.29	769.4	50.0	10.0	92	w.	.....	.....	3	.....	.....	.....	.....	0.016	0.4	.....	
Utrecht	30.24	768.1	30.30	769.5	47.3	8.5	90	sw.	.....	.....	3	.....	8	.....	.....	0.028	0.7	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.93	760.3	.....	.....	75.6	24.2	94	nw.	0	0	.....	.....	10	.....	.....	0.043	1.1	.....	Lt.J.J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.52	749 8	29.58	751.4	45.7	7.6	98	ssw.	27	12	.....	.....	10	.....	.....	0.890	22.6	raining	
Brono	29.24	742.8	29.28	743.8	32.0	0.0	76	sse.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Christiania	29.62	752.4	29.78	756.3	25.5	— 3.6	95	ese.	0	0	.....	.....	10	.....	.....	0.386	9.8	foggy	
Gjessvær	29.37	746.0	29.39	746.6	13.3	—10.4	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Lodingen	29.32	744.7	29.37	745.9	28.0	— 2.2	63	se.	.....	.....	4	.....	8	.....	.....	0.031	0.8	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A.M.R.dos Santos.
Funchal, Madeira	30.02	762.6	30.11	764.8	65.7	18.7	63	ne.	12.3	5.6	.....	.....	5	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.05	763.2	30.39	772.0	50.7	10.4	49	ne.	20.6	9 2	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.10	764.6	30.17	766.4	61.9	16.6	70	se.	6.3	2.8	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
St. Vincent, Cape Verd Ids.	29.99	761.7	30.02	762.6	67.3	19.6	72	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	
San Salvador, Congo	28.10	713.7	29.91	759.8	82.4	28.0	63	nw.	.....	.....	3	.....	2	w.	.....	0	0	.....	
Serra da Estrella	25.65	651 4	30.53	775.4	40.6	4.8	52	ese.	37.4	16.7	.....	.....	5	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29 28	743.6	30.51	775.0	— 6.3	—21.3	85	sw.	7	3	.....	2 ck	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.88	759 0	29.90	759.5	1.0	—17.2	93	ssw.	2	1	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow
Ashuruda	30.21	767.2	30.11	764.8	45.9	7.7	83	ene.	2	1	.....	.....	10 n	.....	.....	0.311	7.9	dense fog	
Astrakhan	30.11	764.9	30.04	762.9	33.4	0.8	94	ssw.	4	2	.....	.....	10	.....	.....	.....	.....	.....	Capt. Wisganow.
Baku	30.10	764.5	30.05	763 3	40.6	4.8	73	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Barnaul	29.89	759.3	30.45	773 4	7.9	—13.4	88	sw.	13	6	.....	.....	10	.....	.....	0	0	.....	Meteorological Office.
Bielosersk	29.50	749 3	30.02	762 5	0.7	—17.4	78	nw.	9	4	.....	.....	10 ks	.....	.....	blank	blank	.....	
Dorpat	30.11	764.8	30.38	771 6	15.1	— 9.4	78	w.	4	2	.....	c	4 ks	.....	.....	0.134	3.4	.....	Observatory.
Ekaterinburg	28.91	734.3	29.93	760 2	20.8	— 6.2	84	sw.	20	9	.....	.....	10 n	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	29.75	755.6	30.23	767 8	27.0	— 2.8	79	nw.	9	4	.....	0	7 ks	.....	.....	inap.	inap.	.....	
Kasan	29.37	746.0	29.65	753 2	23.5	— 4.7	93	sse.	11	5	.....	.....	10 s	.....	.....	0	0	.....	Observatory.
Kem	30.04	763.0	30.09	764.3	5.5	—14.7	82	w.	9	4	.....	0	1 s	.....	.....	0	0	.....	
Kertch	30.16	766.1	30.19	766.7	30.6	— 0.8	92	nw.	7	3	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	29.53	750.1	30.22	767 6	18.9	— 7.3	67	nw.	22	10	.....	0	3 ks	.....	.....	0	0	.....	Observatory.
Koslov	29.30	744.2	29.85	758.2	5.2	—14.7	69	wnw.	7	3	.....	0	0	.....	.....	0	0	.....	
Igov	29.45	747.9	30.09	764.2	10.8	—11.8	70	wnw.	22	10	.....	.....	9	.....	.....	0.051	1.3	snowing	R.I.Ssaweljew, Engin'r.
Libau	30.37	771.3	30.39	771.9	21.2	— 6.0	68	se.	11	5	.....	.....	10	.....	.....	0.031	0.8	.....	Dr. Quass.
Lugan	29.79	756.7	30.01	762.3	19.0	— 7.2	72	nnw.	22	10	.....	.....	10	.....	.....	0.004	0.1	.....	Meteorological Obs'y.
Moscow	29.31	744.5	29.85	758.2	— 2.0	—18.9	77	ne.	4	2	.....	0	0	.....	.....	0.024	0.6	.....	Meteorological Obs'y
Nertschinsk	28.01	711.4	30.67	779.0	—15.7	—26.5	80	calm	0	0	.....	.....	2	.....	.....	0	0	light clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	30.23	767.9	30.30	769.7	28.6	— 1.9	78	n.	18	8		3 cs	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.78	756.4	29.87	758.6	— 4.0	—20.0	80	w.	13	6			9 n						Iwanow.
Pekin, China	30.26	768.7	30.41	772.3	24.6	— 4.1	64	calm	0	0		0	0			0	0		Physical Observatory
Petro-Alexandrovsk	29.74	755.4	30.11	764.9	27.3	— 2.6	42	ne.	2	1			10 ks						
Petrozavodsk	29.90	759.5	30.12	765.0	8.4	—13.1	80	nw.	11	5		0	7 ks			0	0		Dr. Bergmann.
Pinsk	29.90	759.4	30.44	773.1	19.2	— 7.1	61	nnw	22	10		0	1 ks			0	0		
Poti	30.15	765.9	30.19	766.7	39.0	3.9	95	nw.	4	2			10 n					raining	
St. Petersburg	30.23	767.8	30.25	768.4	6.3	—14.3	72	nw.	11	5			9 k			0.028	0.7		Central Physical Obs'y.
Samarkand	27.50	698.4	30.03	762.8	39.2	4.0	78	calm	0	0		8 ck	0						
Semipalatinsk	29.97	761.2	30.71	780.0	5.2	—14.9	73	sw.	4	2			6			0	0		Major Lasarew
Sevastopol	30.08	764.1	30.31	769.8	32.7	0.4	57	ne.	27	12		2 cs	0			0.024	0.6		
Staroi Bykhov	29.65	753.2	30.26	768.7	9.5	—12.5	58	nw.	25	11		0	0			0.016	0.4		
Tashkend, Laboratory	28.35	720.0	30.07	763.8	40.5	4.7	65	n.	18	8			9 n						Terch, A. M
Tiflis	28.67	728.3	30.13	765.3	43.2	6.2	47	nw.	22	10		0	7 k			0	0		Physical Observatory.
Vernoe	27.64	702.0	30.39	771.9	9.9	—12.3	79	sw.	7	3			10 n						
Viatka	28.95	735.3	29.61	752.1	21.6	— 5.8	97	wsw.	13	6			10						
Vladivostock	30.11	764.9	30.18	766.6	4.8	—15.1	60	nnw.	13	6		4 c	0			0	0		
Warsaw	30.02	762.6	30.48	774.1	30.7	— 0.7	86	sw.	4	2			10 n			0.008	0.2	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.96	760.9	30.27	768.8	14.5	— 9.7	84	w.	9	4			4			blank	blank		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.24	742.7	29.85	758.2	— 3.8	—19.9	68	wnw.	15	6.7		0	5 n		nw.	inap.	inap.	snowy	Prof. S. Fadeleff.
Spanish.																			
Barcelona, Met. Obs'y	30.13	765.2	30.24	768.0	61.9	16.6	60	ne.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.54	775.6	30.60	777.1	53.2	11.8	92	sw.	1.8	0.8		2	3	n.		0.039	1.0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.55	699.7	30.05	778.6	42.8	6.0	56	ne.	3.8	1.7		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.17	715.6	30.45	773.5	53.4	11.9	44	ne.	6.7	3.0		2	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.25	768.3	30.37	771.4	60.1	15.6	60	sw.	1.1	0.5		0	1			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.54	750.4	30.47	773.8	51.1	10.6	60	n.	11.9	5.3			6			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.04	763.1	30.11	764.8	67.2	19.6	59	nne.	6.3	2.8		0	7 k;ks		nnw.	0.56	14.2	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	30.10	764.4	30.15	765.8	72.0	22.2	71	e.	6.6	3.0		0	8			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.21	767.3	30.31	769.9	59.9	15.5	63	e.	28.6	12.8		1	1	e.	e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.03	762.8	30.12	765.1	72.7	22.6	98	calm	0	0		2 kn	4 kn	s.	s.	0.012	0.3	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.97	761.1	30.00	762.1	21.6	— 5.8	85	sw.			4		10			0	0		
Umea	29.95	760.6	30.00	761.9	25.9	— 3.4	78	sw.			6		10			0.315	8.0		
Hernosand	29.91	759.6	29.96	760.9	27.7	— 2.4	83	sw.			8		10			0	0		
Stockholm	29.91	759.8	30.09	764.3	30.2	— 1.0	92	s.			4		10					snowing	
Wisby	30.11	764.9	30.17	766.4	31.3	— 0.4	96	s.			6		10					snowing	
Sub-series.																			
Upsala	29.95	760.6	30.03	762.8	28.4	— 2.0	94	s.	22.1	9.9			10			0.323	8.2	snowing	H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.38	771.7	43.5	6.4	91	n.	7	3.0			10		sw.	0.252	6.4		The Observatory.
Valona			30.22	767.5	58.8	14.9		se.			1		10			0.12	3.	raining	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.32	770.0	61.0	16.1	71	sw.			1		6		sw.	0.262	6.6		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	29.06	738.1	29.15	740.4	45	7.2	76	w.	5	2.2			10 s		w.	0.34	8.6	cloudy	J. O. Barnes.
Alpena, Michigan	28.95	735.3	29.06	753.4	15	— 9.4	83	nw.	13	5.8			10 s			0.25	6.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.97	634.2	30.09	764.3	29.0	— 1.7	66	se.	3	1.3		5 cs	0			0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	26.84	681.7	29.88	758.9	27.1	— 2.7	77	sw	7	3.1			10 s		sw.	0	0	cloudy	F. Newman.
Atlanta, Georgia	28.77	730.7	30.00	762.0	14.0	—10.0	80	w.	13	5.8		0	sk.			0.12	3.0	clear	S. W. Beall.
Atlantic City, New Jersey	29.17	740.9	29.18	741.2	41.0	5.0	92	s.	23	10.3			10 s			1.51	38.4	cloudy	B. A. Blundon.
Augusta, Georgia	29.74	755.4	29.94	760.5	23	— 5.0	61	w.	7	3.1		0	0			1.03	26.2	clear	W. J. Evans.
Baltimore, Maryland	29.22	742.2	29.27	743.4	33	0.6	83	w.	18	8.0			10 n		w.	1.70	43.2	heavy snow	Geo. W. Felger.
Barnegat City, New Jersey	29.14	740.1	29.16	740.7	42.5	5.8	96	sw.	52	23.2			10 s		sw.	2.50	63.5	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.01	711.4	29.75	755.6	12.0	—11.1	04	calm	0	0		0	hz			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.06	687.3	30.04	763.0	29.0	— 1.7	100	n.	9	4.0			10 n			0.10	2.5	light snow	Thomas Morgan.
Bismarck, Dakota	27.71	703.8	29.71	754.6	14	—10.0	83	n.	4	1.8		0	3 s		nw.	0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	29.25	742.9	29.28	743.7	49.0	9.4	96	se.	25	11.2			10 ks		sw	1.65	41.9	cloudy	J. T. Elker.
Boise City, Idaho	27.26	692.4	30.19	766.8	33	0.6	88	sw.	5	2.2		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.21	741.9	29.38	746.2	42.0	5.6	100	se.	36	16.1			10 n		se.	2.05	52.1	heavy rain	O. B. Cole.
Brownsville, Texas	30.05	763.3	30.11	764.8	39.8	4.3	89	e.	3	1.3		0	0			0	0	clear	John McGlone.
Buffalo, New York	28.58	725.9	29.37	746.0	20.4	— 6.4	93	nw.	18	8.0			10 s			0.75	19.0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.47	697.7	29.70	754.4	30	— 1.1	88	s.	3	1.3			10 s			0	0	cloudy	A. Schneider.
Cairo, Illinois	29.66	753.4	30.08	764.0	10.0	—12.2	80	sw.	4	1.8		0	fg			0	0	clear	W. B. Ray.
Canby, Fort, Washington Ter	29.95	760.7	30.15	765.8	44.0	6.7	83	w.	9	4.0		6 k	0	nw.		0.04	1.0	fair	J. H. Young.
Cape Henry, Virginia	29.40	746.7	29.42	747.3	40.0	4.4	73	se.	17	7.6			10 s			1.55	39.4	cloudy	A. K. Alderson.
Cape May, New Jersey	29.23	742.4	29.26	743.2	40.0	4.4	100	sw.	42	18.8			10 s		w.	2.27	57.7	cloudy	W. E. Smith.
Cape Mendocino, California	29.58	751.3	30.28	769.1	47	8.3	86	nw.	14	6.3		0	5 ks		nw.	0.01	0.3	fair	A. P. Leavitt.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	32.0	0.0	88	nw.	19	8.5		0	0			0.01	0.3	clear	G. W. Davis.
Charleston, S. Carolina	29.78	756.4	29.84	757.9	28.5	— 1.9	77	w.	16	7.2		0	8 s		w.	1.43	36.3	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.83	732.3	29.72	754.9	26.5	— 3.1	88	w.	8	3.6			10 s		w.	0.89	22.0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.05	763.5	15.0	— 9.4	75	sw.	8	3.6		1 cs	0	nw.		0.11	2.8	clear	B. L. Goulding.
Cheyenne, Wyoming	23.71	602.2	29.98	761.5	36.7	2.6	47	w.	24	10.7		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.15	740.4	29.90	759.4	8.0	—13.3	87	w.	2	0.9			10 s			0.13	3.3	cloudy	Wm. Norrington.
Chincoteague, Virginia	29.33	745.0	29.35	745.5	39	3.9	82	sw.	13	5.8			10 s		w.	1.64	41.7	cloudy	O. F. Dickens.
Cincinnati, Ohio	29.19	741.4	29.88	758.9	14.4	— 9.8	91	sw.	8	3.6			10 s		sw.	0.07	1.8	cloudy	L. Dunne.
Cleveland, Ohio	28.79	731.3	29.57	751.1	19.0	— 7.2	100	w.	17	7.6			10 n		w.	0.29	7.4	light snow	W. Line.
Columbus, Ohio	28.81	731.8	29.71	754.6	16	— 8.9	91	sw.	18	8.0			10 n			0.24	6.1	light snow	F. T. Williams.
Concho, Fort, Texas	28.06	712.7	30.08	764.0	31.5	— 0.3	71	sw.	6	2.7		0	1 k		sw.	0	0	clear	C. E. King.
Custer, Fort, Montana	26.47	672.3	29.85	758.2	37	2.8	82	w.	10	4.5			10 s			0	0	cloudy	W. J. Daily.
Davenport, Iowa	29.19	741.4	29.90	759.4	13	—10.6	70	ne.	3	1.3			10 s			0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.17	639.3	30.15	765.8	31.2	— 0.4	53	calm	0	0		6 cs	0			0	0	fair	J. Williams.
Dayton, Washington T'y	28.27	718.0	30.08	764.0	37.0	2.8	82	sw.	12	5.4		5 k	3 ks	w.	w.	0.11	2.8	cloudy	H. S. Blandford.
Deadwood, Dakota	24.99	634.7	29.94	760.5	36.2	2.3	72	s.	6	2.7		0	4 s			0	0	fair	G. Kingsbury.
Delaware Breakwater, Del	29.23	742.4	29.25	742.9	39.9	4.4	100	sw.	38	17.0			10 s		sw.	1.02	25.9	cloudy	G. A. Martin.
Denver, Colorado	24.47	621.5	29.99	761.7	48.8	9.4	33	sw.	10	4.5		0	0			0	0	clear	F. M. Nash.
Des Moines, Iowa	28.83	732.3	29.85	758.2	7.8	—13.4	61	s.	2	0.9		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	28.90	734.0	29.66	753.4	19.0	— 7.2	70	w.	16	7.2			10 s			0.27	6.9	cloudy	N. B. Conger.
Dodge City, Kansas	27.22	691.4	29.97	761.2	22	— 5.6	73	w.	2	0.9		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.15	740.4	29.92	760.0	— 1.8	—18.8	57	sw.	3	1.3			10 s			0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.05	737.9	29.86	758.4	0	—17.8	68	calm	0	0			10 s			0	0	cloudy	E. R. Brace.
Eastport, Maine	29.90	759.4	29.97	761.2	32.0	0.0	83	e.	24	10.7			10 n		e.	0.04	1.0	sleeting	D. C. Murphy.
Elliott, Fort, Texas	27.10	688.3	30.03	762.7	32.8	0.4	69	calm	0	0		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas *	26.26	667.0	30.14	765.5	29.2	— 1.6	59	calm	0	0		0	3 s			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.69	728.7	29.46	748.3	21.7	— 5.7	84	nw.	10	4.5			10 n			1.52	38.6	light snow	C. A. Shaw.
Escanaba, Michigan	29.12	739.6	29.84	757.9	— 7.0	—21.7	74	w.	3	1.3		0	2 ks		nw.	0	0	clear	L. M. Pindell.
Fort Smith, Arkansas	29.55	750.6	30.05	763.3	5.0	—15.0	76	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Galveston, Texas	30.09	764.3	30.13	765.3	35.9	2.2	79	n.	6	2.7		0	8 s			0	0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.08	738.6	29.79	756.7	17.0	— 8.3	83	nw.	7	3.1			10 n			inap.	inap.	light snow	Joseph E. Muelle
Grant, Fort, Arizona	25.18	639.6	30.08	764.0	40.2	4.6	51	ne.	1	0.4		3 ck	1 ks	w.		0	0	fair	Chas. A. Read.

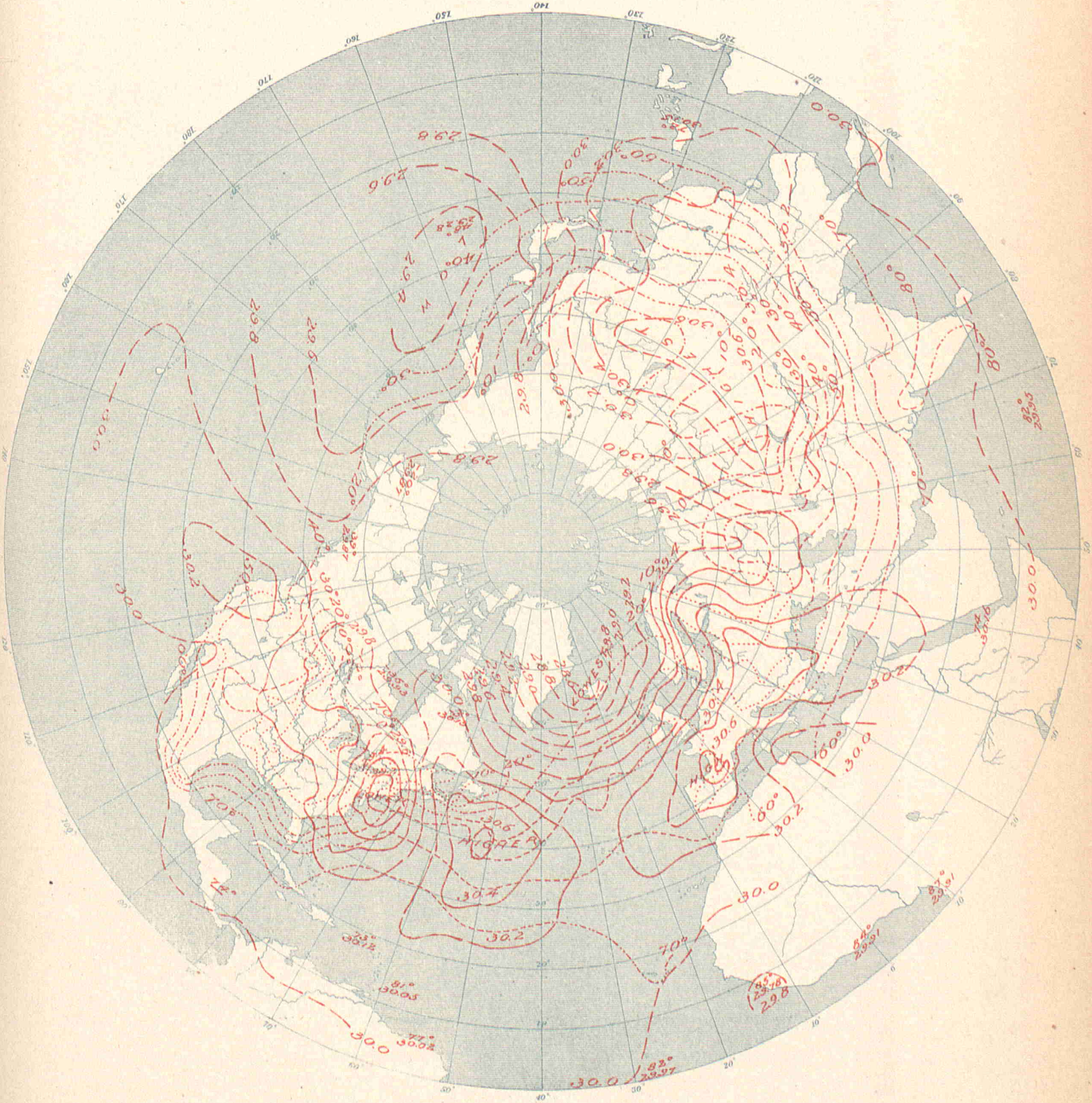
* Observation taken twelve minutes late.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	29.52	749.8	29.53	750.0	41.0	5.0	73	sw.	30	13.4	.....	.....	10 k	.....	sw.	2.79	70.9	cloudy	R. M. Crawford.
Helena, Montana	25.60	650.2	29.98	761.6	.....	.....	.....	w.	8	3.6	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	S. W. Morrison.
Huron, Dakota	28.24	717.3	29.78	756.4	3.7	—15.7	69	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.04	737.6	29.88	758.9	15.0	— 9.4	67	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.10	764.5	30.13	765.3	36.0	2.2	89	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksonville, Florida	30.03	762.7	30.08	764.0	31.0	— 0.6	78	w.	6	2.7	.....	0	0	.....	.....	0.28	7.1	clear	J. W. Smith.
Keokuk, Iowa	29.22	742.2	29.92	760.0	8.2	—13.2	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.09	764.3	30.11	764.8	63	17.2	63	nw.	16	7.2	.....	0	4 k	.....	nw.	0.30	7.6	fair	A. W. Browne.
Kittyhawk, North Carolina	29.49	749.0	29.51	749.5	38.5	3.6	78	sw.	28	12.5	.....	.....	10 s	.....	sw.	1.54	39.1	cloudy	Wesley Blake.
Knoxville, Tennessee	28.92	734.6	30.00	762.0	10.3	—12.1	94	w.	11	4.9	.....	hz.	1 s	.....	.....	0.39	9.9	clear	J. A. Cody.
La Crosse, Wisconsin	29.07	738.4	29.91	759.7	2	—16.7	72	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.93	734.8	29.89	759.2	9	—12.8	87	s.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	29.21	741.9	30.08	764.0	41.3	5.2	54	sw.	2	0.9	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	C. E. Butler.
Little Rock, Arkansas	29.73	755.1	30.06	763.5	12.0	—11.1	89	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	W. U. Simons.
Los Angeles, California	29.67	753.6	30.07	763.8	44.0	6.7	93	ne.	7	3.1	.....	0	fg.	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.36	745.7	29.95	760.7	17.9	— 7.8	69	w.	12	5.4	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	L. M. Dey.
Lynchburg, Virginia	28.74	730.0	29.46	748.3	25.0	— 3.9	68	nw.	17	7.6	.....	.....	10 s	.....	nw.	2.02	51.3	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.08	738.6	29.78	756.4	9.0	—12.8	59	nw.	8	3.6	.....	0	4 s	.....	.....	0.10	2.5	fair	D. B. Notson.
Macon, Fort, North Carolina	29.60	751.8	29.60	751.8	37.0	2.8	82	sw.	36	16.1	.....	.....	10 s	.....	sw.	2.25	57.1	cloudy	William Daly.
Maginnis, Fort, Montana	.....	.....	.....	.....	28.9	— 1.7	61	nw.	24	10.7	.....	.....	10 n	.....	nw.	0.05	1.3	heavy snow.	F. Burke.
Marquette, Michigan	29.08	738.6	29.86	758.4	1.0	—17.2	42	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.06	763.5	12	11.1	88	se.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	D. T. Flannery
Milwaukee, Wisconsin	29.07	738.4	29.87	758.7	5.0	—15.0	76	nw.	11	4.9	.....	0	0	.....	.....	0.22	5.6	clear	S. W. Rhode.
Mobile, Alabama	30.15	765.8	30.19	766.8	22	— 5.6	87	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Montgomery, Alabama	29.92	760.0	30.16	766.1	19	— 7.2	84	nw.	7	3.1	.....	0	0	.....	.....	0.01	0.3	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.65	727.7	29.76	755.9	3.4	—15.9	72	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.01	584.4	29.64	752.8	21.5	— 5.8	100	se.	112	50.1	.....	.....	10n;fg	.....	se.	0.13	3.3	sleeting	Edwd. A. Beals.
Nashville, Tennessee	29.45	748.0	30.06	763.5	11.5	—11.4	88	w.	10	4.5	.....	10 cs	0	nw.	.....	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.07	738.4	29.19	741.4	47	8.3	100	s.	10	4.5	.....	.....	10n;fg	.....	.....	1.09	27.7	light rain	J. H. Sherman.
New London, Connecticut	29.24	742.7	29.29	744.0	41.0	5.0	100	se.	21	9.4	.....	.....	fg.	.....	.....	2.32	58.9	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.14	765.5	30.20	767.1	32.0	0.0	78	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	M. Herman.
New York, New York	28.96	735.6	29.15	740.4	43.3	6.3	100	se.	14	6.3	.....	.....	fg.	.....	.....	2.48	63.0	dense fog	H. J. Penrod.
Norfolk, Virginia	29.41	747.0	29.44	747.8	40.6	4.8	76	sw.	15	6.7	.....	.....	10 ks	.....	sw.	1.62	41.1	cloudy	Wm. Davis.
North Platte, Nebraska	26.80	680.7	29.92	760.0	26.6	— 3.0	77	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Mc Lean.
Olympia, Washington T'y	30.10	764.5	30.14	765.5	40.0	4.4	82	sw.	10	4.5	.....	0	1 ks	.....	.....	0.37	9.4	clear	J. Dascomb
Omaha, Nebraska	28.59	726.2	29.86	758.4	7.6	—13.6	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	28.84	732.5	29.19	741.4	26.0	— 3.3	94	ne.	16	7.2	.....	.....	10 n	.....	.....	1.50	38.1	sleeting	J. G. Linsley.
Palestine, Texas	29.52	749.8	30.10	764.5	32.0	0.0	68	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.17	766.3	30.20	767.1	23.7	— 4.6	58	nw	2	0.9	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	29.02	737.1	29.13	739.9	48	8.9	86	sw.	8	3.6	.....	.....	10n;fg	.....	sw.	1.40	35.6	light snow	T. F. Townsend.
Pike's Peak, Colorado	17.53	445.3	30.23	767.8	5.0	—15.0	83	w.	36	16.1	.....	2 cs	0	w.	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	28.66	728.0	29.51	749.5	21.0	— 6.1	91	w.	14	6.3	.....	.....	10 n	.....	w.	1.95	49.5	light snow	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	35	1.7	100	ne.	.....	.....	4	.....	10 s	.....	.....	inap.	inap.	cloudy	G. A. Carden.
Port Huron, Michigan	28.81	731.8	29.54	750.3	17.2	— 8.2	87	nw.	19	8.5	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	M. H. Perry
Portland, Maine	29.39	746.5	29.44	747.8	38.0	3.3	100	e.	48	21.5	.....	.....	10 n	.....	e.	0.53	13.5	heavy rain	W. W. Eichelberger.
Portland, Oregon	30.11	764.8	30.18	766.6	43.0	6.1	89	s	2	0.9	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	M. L. Hearne.
Prescott, Arizona	24.73	628.1	30.11	764.8	40.0	4.4	58	sw.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	29.30	744.2	29.34	745.2	45.8	7.7	100	se.	46	20.6	.....	.....	10 n	.....	se.	2.04	51.8	heavy rain	C. N. Kitchel.
Red Bluff, California	29.91	759.7	30.28	769.1	40	4.4	100	n.	5	2.2	.....	.....	fg.	.....	n.	0.16	4.1	dense fog	J. R. Williams.
Rio Grande City, Texas	29.92	760.0	30.17	766.3	33.6	0.9	85	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y.	28.57	725.7	29.28	743.7	25	— 3.9	100	ne.	10	4.5	.....	.....	10 n	.....	.....	1.24	31.5	heavy snow	E. W. McGann.
Roseburg, Oregon	29.73	755.1	30.30	769.6	40	4.4	88	s.	6	2.7	.....	0	9 n	.....	sw.	0.35	8.9	light rain	J. J. Naury.
Sacramento, California	30.16	766.1	30.24	768.1	45.5	7.5	96	nw.	1	4.0	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	J. A. Barwick
St. Louis, Missouri	29.33	745.0	29.99	761.7	14.2	— 9.9	85	se.	4	1.8	.....	0	sk.	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.84	757.9	29.87	758.7	—20	—28.9	100	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	28.88	733.5	29.82	757.4	4.0	—15.6	100	sw.	1	0.4	.....	0	2 s	.....	.....	inap.	inap.	clear	P. F. Lyons.
St. Vincent, Minnesota	28.75	730.2	29.73	755.1	— 6	—21.1	86	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.48	647.2	30.05	763.3	35	1.7	66	nw.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. Craig.
San Diego, California	29.98	761.5	30.05	763.3	51.0	10.6	93	ne.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	F. R. Day.
Sandusky, Ohio	28.93	734.8	29.65	753.1	17	— 8.3	67	nw.	23	10.3	.....	0	3 s	.....	nw.	0.06	1.5	clear	B. F. Hough.
Sandy Hook, New Jersey	29.12	739.6	29.15	740.4	47.0	8.3	93	s.	25	11.2	.....	.....	fg.	.....	.....	2.85	72.4	dense fog	V. P. Chappel.
Sanford, Florida	30.01	762.2	30.06	763.5	35.0	1.7	79	nw.	7	3.1	.....	0	0	.....	.....	0.02	0.5	clear	J. B. Maroury
San Francisco, California	30.17	766.3	30.24	768.1	47.0	8.3	93	n.	9	4.0	.....	0	5s;fg	.....	nw.	0.04	1.0	fair	N. Gorom.
Savannah, Georgia	29.83	757.7	29.93	760.2	29.5	— 1.4	63	w.	20	8.9	.....	0	0	.....	.....	0.09	2.3	clear	R. M. Geddings.
Shaw, Fort, Montana	26.12	663.4	29.98	761.5	35	1.7	72	ne.	10	4.5	.....	0	8 s	.....	.....	0.04	1.0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.83	757.7	30.08	764.0	21.5	— 5.8	50	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.80	756.9	29.87	758.7	38.6	3.7	76	e.	14	6.3	.....	0	4 ks	.....	e.	0.07	1.8	fair	F. W. Fickett.
Smithville North Carolina	29.65	753.1	29.69	754.1	31.3	— 0.4	70	w.	23	10.3	.....	.....	10 s	.....	w.	0.82	20.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. Moore.
Springfield, Illinois	29.24	742.7	29.97	761.2	11.0	—11.7	78	s	3	1.3	.....	7 c	0	w.	.....	0	0	fair	T. B. Jennings.
Stockton, Fort, Texas	26.93	684.0	30.07	763.8	39.0	3.9	41	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.06	763.5	.....	.....	41.3	5.2	94	ne.	11	4.9	.....	0	9 s	.....	ne.	0.26	6.6	cloudy	R. Connor.
Thomas, Camp, Arizona	27.25	692.1	30.08	764.0	32.1	0.1	85	calm	.....	.....	0	1 c	1 s	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	28.95	735.3	29.69	754.1	19.2	— 7.1	88	w.	12	5.4	.....	.....	10 s	.....	sw.	0.62	15.7	cloudy	A. Buell.
Unalaskha, Alaska	29.51	749.5	29.53	750.0	21	— 6.1	70	n.	24	10.7	.....	.....	10 s	.....	n.	0.04	1.0	threatening.	Samuel Applegate.
Vicksburg, Mississippi	29.90	759.4	30.17	766.3	21.3	— 5.9	73	se.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	C. Dill.
Washington, D. C.	29.21	741.9	29.33	745.0	26.6	— 3.0	84	nw.	20	8.9	.....	.....	10 n	.....	nw.	2.09	53.1	light snow	T. B. Harrison.
West Las Animas, Colorado	25.81	655.6	29.94	760.5	20	— 6.7	87	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	29.66	753.4	29.72	754.9	32.0	0.0	78	w	17	7.6	.....	.....	10 s	.....	w.	1.92	48.8	cloudy	L. H. Albrecht.
Yankton, Dakota	28.39	721.1	29.81	757.2	4.3	—15.4	70	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	29.80	756.9	29.95	760.7	44.6	7.0	67	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.44	747.8	29.46	748.3	31.1	— 0.5	97	se.	28	12.5	.....	.....	10 n	.....	.....	0.16	4.1	snowing	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	.....	nw.	.....	.....	2	2 cs	4 n	e.	n.	0.03	0.8	fair	W. R. Jackson.
Bogota, U. S. C.	21.98	558.4	.....	.....	50.0	10.0	89	s.	2	1	.....	.....	8 pk	.....	.....	0.130	3.3	.....	Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	29.97	761.2	30.13	765.3	— 5	—20.6	100	sw.	25	11.2	.....	0	3 s	.....	s.	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.05	763.3	71.2	21.8	82	n.	2	0.9	.....	10 cs	0	w.	.....	0.10	2.5	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	82	ne.	.....	.....	3	4 c	0	e.	.....	0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.44	747.8	30.00	762.0	78	25.6	89	calm	.....	.....	0	3 ck	6 ks	calm	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	88	ne.	.....	.....	2	.....	.....	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	29.86	758.4	29.93	760.2	—35.0	—37.2	.....	nw.	12	5.4	.....	4 k	6 s	ew.	nw.	0.12	3.0	snowing	Forteseue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.97	761.1	29.98	761.5	79.9	26.6	87	n	7.2	3.2	.....	0	6 k	.....	n.	.....	.....	fair	P. Faslani.
Naós, Bay of Panama	29.91	759.6	29.97	761.3	73.4	23.0	91	n.	.....	.....	4	0	2 k	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 42° 12′, W. 59° 15′ †	30.54	775.7				sse.			7		7		nw.	0	0	h'vy		fair.
S. S. Alvo, N. 20° 50′, W. 74° 17′ *	30.14	765.5	76	24.4		var.			1–2		7		calm	1 h'r	1 h'r	long	nne.	fair.
S. S. Alleghany, Baltimore, Md †	29.19	741.4	28	— 2.2		wnw.			5		10		nw.	12 h'r	12 h'r			snowy.
Bg. Abbie Clifford, N 42° 20′, W. 70° 20′ *†	29.35	745.5	46	7.8		e			7		10			9 h'r	9 h'r	h'vy	e.	
Schr. Anna A. Holton, N. 36° 06′, W. 74° 01′			60	15.6		sw.			8		8		sw.	3 h'r	3 h'r	r'gh		cloudy.
S. S. Alps, N. 18° 11′, W. 76° 28′ *†	30.06	763.5	83	28.3		n.			3		5		n.	0	0	short		
S. S. Circassian, N. 52° 25′, W. 32° 50′	29.76	755.9	36	2.2	80	wsw.			6		7		w.			6	wsw.	d. clouds.
S. S. Cienfuegos, N. 29° 34′ W. 76° 15′	29.78	756.4	62	16.7		sw.			6		7		wsw.	3 h'r	3 h'r	h'vy	sw.	fair.
S. S. Caracas, N. 18° 00′, W. 67° 46′ *†	30.10	764.5	80	26.7	82	e.			5		2		ene.	½ h'r	½ h'r	cross	ne;se.	hazy.
S. S. City of Augusta, Savannah, Ga †	29.98	761.5				ssw.			4		6		se.	0	0			fair.
Bk. Diamant, N. 39° 28′, W. 53° 48′	30.63	778.1	48.2	9.0	56	ese.			2		9					3	w.	overcast.
S. S. Dorian, N. 32° 53′, W. 25° 50′	30.12	765.0	66	18.9		var.			1		4			6 h'r	6 h'r	mod.	se.	clear.
S. S. Denmark, London, Eng †	30.17	766.3	51	10.6	93	w			7		8		w	sh'rs	sh'rs			cloudy.
S. S. France, N. 49° 04′ W. 24° 40′ *†	30.08	764.0				w.			3		9		w.	rain	rain	large	w.	cloudy.
Bg. Gipsy Queen, Matanzas, Cuba, W. I *†	30.10	761.5				n.			3		3		n.	4 h'r	4 h'r			fair.
Bk. Ibis, N. 38° 43′, W. 71° 40′*	29.21	741.9	50	10.0		sw.			10		10		sw.	8 h'r	8 h'r	h'vy	se.	gale.
S. S. Iowa, N. 42° 24′. W. 67° 09′ †	29.85	758.2	40	4.4		ese.			6		10			2 h'r	2 h'r	hv'y	e.	light rain.
Schr. Jas. Slater, N. 31° 45′, W. 71° 53′ *†	29.85	758.2	70	21.1		w.			8		10		ssw.	5 h'r	5 h'r	hv'y	r'gh	
Bg. Lilian, N 38° 00′, W. 74° 40†	29.27	743.4	44	6.7		sw.			7		10		sw.	6 h'r	6 h'r	r'gh		threatening.
S. S. Lord Gough, N. 50° 58′, W. 24° 05′*	29.87	758.7	50	10.0		sw.			3		8		sw.	0	0	mod.	sw.	cloudy.
Bg L. F. Munson, N. 38° 15′, W. 70° 26′ *†	29.40	746.7				ssw.			9		10		ssw.	8 h'r	8 h'r	r'gh	se.	stormy.
S. S. Mentmore, N. 42° 32′, W. 57° 11′			42	5.6		nw.			6					0	0	mod.	nw.	fine.
Schr. Maggie Abbott, N. 20° 35′, W, 72° 13′						nw.			1		4		nw	0	0	short	ene,	clear.
Bk. Matthias, N. 31° 49′. W. 52° 19′*†	30.47	773.9	61	16.1		ne.			4		6		nne.	0	0	4	wnw.	fair.
S. S. Neckar, off Sandy Hook, N. J.	29.08	738.6	33.0	0.6	69	var.			1–8		8		e; sw	rain	rain	h'vy	e.	cloudy.
S. S. Nova Scotian, N. 49° 50′, W. 42° 20′	30.04	763.0	33	0.6		w.			6		8		w.			cf'd		showery.
S. S. Nederland, N. 49° 40′, W. 28° 04′			46	7.8	92	w.			6		2?		w.	4 h'r	4 h'r	high	w.	cloudy ?
S. S. Olbers, N. 33° 50′, W. 69° 55′	29.74	755.4	64.5	18.1	94	s.			8		10		sw.	3 h'r	3 h'r	high	var.	squally.
S. S. Pavonia, N. 47° 47′, W. 33° 23′	30.07	763.8	51	10.6	80	wsw.			6		3		w.	0	0	long	w.	fair.
S. S. Picqua, N. 34° 50′, W. 14° 26′ *†	30.25	768 3	63	17.2	83	ase.			3		5			0	c	light	n.	fair.
S. S. Rhynland, N. 42° —′, W. 64° 25′	30.03	762.7	44	6.7	84	se.			6		4		se.	0	0	mod.	se.	fair.
S. S. Romano, N. 46° 14′, W. 29° 01′	30.11	764.8	47	8.3		nw.			3		8		wnw.	12 h'r	12 h'r	mod.	w.	cloudy.
S. S. Rosse, N. 50° 16′, W. 13° 40′			62	16.7		sw.			6		5		wsw.	0	0	hv'y	var	fair.
Bk. Rosina, N. 26° 10′, W. 58° 40′	30.33	770.4	76	24.4		e.			3		5		ne.	0	0	r'gh	var.	stormy.
S. S. St. Albans. N. 26° —′, W. 71° —′*	30.03	762.7	75	23.9		w.			5		10		w.	6 h'r	6 h'r	cf'd	var.	cloudy.
Bg. Teneriffe, New York, N. Y.						ese.			8		10							raining.
Schr. Viola Reppard, N. 41° 01′, W. 72° 00′			48	8.9		ese.			5		10		se.	8 h'r	8 h'r	high	ese.	cloudy.
S. S. Valencia, N. 22° 26′, W. 69° 04′ †	30.09	764.3	78	25.6	86	s.			6		8		s.	3 h'r	3 h'r	rg'h	s.	squally.
S. S. Westphalia, Hamburg, Germany	30.16	766.1	41	5.0	100	w.			2		10			0	0			foggy
S. S. Andes, N. 18° 00′, W. 73° 30′ *†	30.10	764.5	81	27.2		ene.			2					0	0			
Bk. Ariadne, N. 30° 42′, W. 71° 34′	29.82	757.4	68	20.0		wsw.			7		10		w.	9 h'r	9 h'r	mod.		cloudy.
Schr. Annie R. Lewis. N. 20° 28′, W. 72° 36′ †	30.16	766.1	81	27.2		calm			0		6		nw.	2 h'r	2 h'r	mod.	e.	fair.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.07	763.8				n.			2		3		n.	9 h'r	9 h'r	r'gh	nne.	fine.
U. S. S. Alliance, Port au Prince, Hayti, W. I.			75	23.9	86	ne.			1		2		e.	0	0	sm'h		clear.
S. S. Britannic, N. 44° 30′, W. 44° 50′*†.	30.45	773.4	36	2.2		nw.			5		6		ne.	0	0	high	nw.	d. clouds.
S. S. British Princess, N. 39° 56′, W. 55° 06′†	30.55	776.0	50	10.0		e.			2	6c;cs		se.		0	0	sm'h		fair.
S. S. Chalmette, N. 27° 40′ W. 80° 07′ †	30.08	764.0	48	8.9		nw.			6		3		nw.	4 h'r	4 h'r	mod.	nw.	clear.
Schr. Ellen Crusoe, N. 21° 55′, W. 71° 50′ *†	30.12	765 0				s.							e.	2 h'r	2 h'r			cloudy.
S. S. Germanic, N 47° 10′, W. 40° 49′*†	30.10	764.5	37	2.8	90	wnw.			6		9		wnw.	3 h'r	3 h'r	long	wnw.	squally.
S. S. Grecian, N. 18° 07′, W. 23° 10′	30.03	762.7	71	21.7	79	n.			1		2		n.	0	0	sm'h		clear.
S. S. Lone Star, N. 28° 45′. W. 88° 35′*†	30.12	765.0	45	7.2		nw.			4		8		nw.	0	0	small	nw.	cloudy.
S. S. Lord Clive, N. 49° 22′. W. 34° 20′						w.			6		6		w.	shr's	shr's	str'g	w.	fair.
S. S. Muriel, N. 29° 51′, W. 67° 28′	30.39	771.9	71	21.7		s.			5		10		sw.	0	0	r'gh	sse.	threatening.
S. S. Ontario, N. 55° 20′, W. 7° 48′	29.73	755.1	50	10.0		sw.			7		5		wnw.	6 h'r	6 h'r	high	wnw.	fair.
S. S. Orinoco, New York, N. Y. †	29.26	743 2	26	— 3.3		ssw.			4		fg.			12 h'r	12 h'r			dense fog.
Bk. Saga, N. 23° 10′, W. 41° 16′ *†	30.15	765.9	73	22.8		ne.			5		6		ne.	¼ h'r	¼ h'r	mod.	var'	fair.
S. Storm King, N. 32° 39′, W. 37° 54′ *†	30.20	767 1				n.			6		5		n.	2 h'r	2 h'r	high	n.	fair.
S. S. State of Nebraska, N. 45° 32′, W. 50° 42′*†	30.54	775.7	33	0.6		wnw.			4		0			0	0	sm'h		blue sky.
S. S. Samaria, N. 43° 00′, W. 48° 00′	30.54	775.7	33	0.6		nw.			4		5		nw.	0	0	mod	nw.	fair.
S. S. Salerno, Grimsby roads, Eng †	30.15	765.8	48	8.9		nw.			3		10		nw.			sm'h	w.	raining.
S. S. St. Laurent, N. 49° 05′, W. 32° 15′	30.03	762.8	46.4	8		wnw.			5		3		wnw.	hail	hail	large	wnw.	fair.
U. S. S. Swatara, Port au Prince, Hayti, W. I.			75	23.9	81	e.			1		2		e.			sm'h		clear.
U. S. S. Tennessee, Port au Prince. Hayti, W. I	30.06	763.5	74	23.3	90	e.	2	0.9			5		calm	0	0			fair.
U. S. S. Vandalia, Port of Spain, Trinidad	30.03	762.7	76	24.4	81	calm			0		5							fair.
S. S. Weser, N. 49° 13′, W. 21° 36′	30.08	764.0	51.8	11.0		ssw.			5		10		ssw.	6 h'r	6 h'r	long	w.	cloudy.
S. S. Wyoming, N. 40° 35′ W. 71° 42′.	29.37	746.0	46	7.8		s.			6		8		sw.	9 h'r	9 h'r	h'vy	se.	clearing.
S. S. Westernland, N. 45° 00′, W. 47° 04′	30.48	774.2	34	1.1		wnw.			5		5		wnw.	0	0	long	wnw.	fair.
U. S. Navy Yard, Portsmouth, N. H.*	29.42	747.3	42	5.6	91	se.	26	11.6			10		se.	1.7	43.			raining.
U. S. S. Kearsarge, N. 44° 15′, E. 8° 27′	30.35	770.9	52	11.1	73	nnw.			6		2		n.			sm'h		fair.
U. S. S. Lancaster, Villefranche, France	30.21	767.3	62	16.7	61	nw.			2		0			0	0	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I.	29.27	743.4	49	9.4		se.			6		10		s.			sm'h		raining.
U. S. S. Quinnebaug, Leghorn, Italy	30.21	767.3	51	10.6	65	ene.			3		5		ne.			sm'h		fair.
U. S. S. Shenandoah, N. 32° 12′. W. 37° 28′ *	30.15	765.8	65	18.3	78	ne.			5		5					mod.	ne.	fair.
U. S. S. Trenton, Marseilles, France	30.30	769.6	52	11.1	66	n.			2		0					sm'h		clear.
H. M. S. Alexandra, Malta, Mediterranean	30.01	762.2	55	12.8	87	wnw.			1		10	nw.						raining.
H. M. S. Alecto, N. 5° 05′, W. 1° 13′	29.91	759.7	84	28.9		calm			0		0					3	ssw.	misty.
H. M. S. Comus, N. 0° 30′. W. 21° 30′	29.95	760.7	80	26.7	100	e.			2		6	ene.				2	se.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.02	762 5	67	19.4	89	se.			5		9	ssw.						drizzling.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.37	771.4	60.5	15.8	68	sse.			5–7		1							squally.
H. P. M. S. Douro, Fernando Po, W. Africa	29.91	759.7	86.9	30.5	82	ne.			1		0			0	0			blue sky.
S. S. Ohio, Liverpool, Eng *†.	30.06	763.5	49	9.4	93	n.			3		7		nw.	0	0			fair.
S. S Pennsylvania, N. 47° 59′, W. 39° 36′ †	30.01	762.2	37	2.8	?	wnw.			9		7		wnw.	8 h'r	8 h'r	h'vy	w.	cloudy.
S. S. Scandinavian, off Greenock, Scotland	29.88	758.9	48	8.9		ssw.			6		10		ssw.	24 h'r	24 h'r			showery.
S. S. Carroll, N. 43° 11′, W. 66° 05′			40	4.4		se.			6		10		se.	rain	rain	short	se.	cloudy.
S. S. Wisconsin, N. 50° 40′, W. 25° 47′	29.94	760.5	46	7.8		wsw.			6		8		w.	3 h'r	3 h'r	r'gh	wsw.	cloudy.
S. S. Frisia, N. 42° 16′, W. 56° 06′	30.55	776.0	52	11.1		sw.			3		7		ssw.	0	0	mod.	wnw	cloudy.
S. S. Archimedes, N. 31° 37′, W. 75° 03′	29.65	753.1				wsw.			8		5?		wsw.	8 h'r	8 h'r	h'vy	wsw.	clear?
S. S. Hevelius, Antwerp, Belgium *†	30.40	772.1	40	4.4		sw.			4		9		sw.	0	0			cloudy.
S. S. Archimede, N. 36° 45′, W. 21° 32′ †	30.32	770.1	68	20.0		e.			3		3		e.	0	0	sm'h	ese.	hazy.
S. S. Texas, Corunna, Spain *†	30.40	772.1	57	13.9	87	calm			0		0			0	0	mod.	nw.	clear.
S. S. Erin, London, Eng	30.30	769.6	49	9.4		wsw.			6		7		w.	0	0			cloudy.
S. S. Helvetia, N. 51° 17′ W. 10° 04′	30.04	763.0	49	9.4	93	ssw.			6		10			0	0	h'vy	sw.	foggy.
S. S. Habsburg, N. 44° 26′, W. 51° 15′	30.58	776.7				nnw.			4		1		n.	0	0	mod.	nnw.	clear.
S. S. Strassburg, N. 1° 52′, W 30° 09′	30.02	762.5	83	28.3	65	ene.			2		7		ne.	0	0		n.	cloudy.
S. S. Waesland, N. 50° 02′, W. 14° 44′	30.10	764 5	54	12.2		sw.			9		7		sw.	0	0	h'vy	wnw.	d. clouds.
S. S. W. A. Scholten, N. 49° 51′ W. 14° 15′			50.5	10.3	81	wnw			4		10		wnw.	0	0	5	wsw.	squally.
S. S. Saxon, Newcastle. Del †	29.26	743 2	34	1.1		wsw.			3		10							rain & fog.
S. S. Celtic, N. 49° 50′, W. 25° 24′ *†	30.01	762.2	55	12 8		wnw.			4		8		nw.	shr's	shr's	h'vy	w.	cloudy.
S. S. Marengo, N. 40° 15′, W. 61° 54′			55	12.8		se.			6		10		nw.	0	0	r'gh	sse.	overcast.
Bg. Alcira N. 35° 02′, W. 71° 07′	29.48	748.8				wsw.			6		10		sw.	4 h'r	4 h'r	cross	var.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.32	770.1	59.5	15.3	60	ese.			6		0			0	0			clear
Bk. Bayonnaise, N. 21° 04′ W. 62° 00′ †	29.90	759.4	77.0	25.0		e.			5		5		e.	2 h'r	2 h'r	r'gh	ne.	squally.
Schr. Clotilde, N. 24° 54′, W. 87° 43′ †	30.13	765.3	69	20.6		nw.			2		2		n.	0	0	h'vy	nw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Celestina, Cadiz, Spain *†	30.35	770.9	.....	.....	.....	e.	.....	.....	6	.....	0	.....	.....	0	0	.....	.....	clear
Bk. C. S. Bushnell, N. 36° 20′, W. 4° 00′	30.44	773.2	.....	.....	.....	e.	.....	.....	3	.....	1	.....	se.	0	0	.....	.....	
S. E. J. Spicer, Liverpool, Eng	30.15	765.8	54	12.2	93	sw.	.....	.....	5	.....	10	.....	wsw	rain	rain	.....	.....	cloudy.
S. E. B. Sutton, N. 29° 00′, W 43° 00′ *†	30.32	770.1	69	20.6	85	n	.....	.....	5	.....	8	.....	n.	0	0	h'vy	var.	cloudy.
S. Hedwig, N 34° 59′ W. 7° 26′	30.21	767.2	62.1	16.7	94	ene.	.....	.....	2	.....	2	.....	ene.	0	0	2	ene.	fine.
Bk. Heinrich & Tonio, N. 42° 10′, W. 41° 10′	30.40	772.1	48	8.9	77	nw.	.....	.....	5	.....	6	.....	nw.	12 h'r	12 h'r	high	nw.	squally.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.26	768.6	.....	.....	.....	wnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	fine.
S. Henry, N, 39° 10′. W. 54° 30 *	30.44	773.2	36.0	2.2	.....	se.	.....	.....	3	.....	6 k	.....	.....	.....	.....	2	.....	fair.
Bg. John Wesley, Havana, Cuba, W. I	.....	.....	.....	.....	.....	s.	.....	.....	3	.....	7	.....	sw.	4 h'r	4 h'r	.....	.....	cloudy.
Schr. John L. Thomas, Hobbies Cays, C. A	.....	.....	.....	.....	.....	nnw.	.....	.....	7	.....	8	.....	nnw.	1 h'r	1 h'r	.....	.....	stormy.
Bg. L & W. Armstrong, N. 24° 09′ W. 55° 53′†	30.20	767.1	.....	.....	.....	e.	.....	.....	5	.....	3	.....	ese.	½ h'r	½ h'r	mod.	ese.	
S. S. Laurel, Key West, Fla†	30.10	764.5	62	16.7	.....	nnw.	.....	.....	2–3	.....	4	.....	nnw.	0	0	.....	.....	clear.
Bkt. Levanter, N. 0° 50′. W. 29° 30′*	29.97	761.2	82	27.8	.....	se.	.....	.....	4	.....	8	.....	ese.	3 h'r	3 h'r	long	e.	fair.
S. S. Madrid, N. 37° 15′, E. 7° 58 †	29.93	760.2	56	13.3	87	wnw.	.....	.....	6–7	.....	9	.....	nw.	12 h'r	12 h'r	r'gh	nw.	showery.
S. S. P. de Satrastegui, Havana, Cuba, W. I	30.08	764.0	.....	.....	.....	n.	.....	.....	3	.....	7	.....	.....	0	0	.....	.....	
Bk. Rosalie, N. 28° 09′, W. 43° 15′	.....	.....	.....	.....	.....	nne.	.....	.....	6	.....	5?	.....	nne.	2¼ h'r	2¼ h'r	mod.	var.	cloudy.?
S. Salisbury, N. 36° 01′, W 3° 06′	30.35	770.8	50.8	16.0	79	e.	.....	.....	3	.....	5 k	.....	ese.	0	0	sm'h	.....	fair.
Bk. Tuck Sing, N. 25° 13′, W. 71° 03′*†	30.02	762.5	.....	.....	.....	wsw.	.....	.....	2	.....	2	.....	w.	7 h'r	7 h'r	cross	.....	fine.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata	29.90	759.4	72	22.2	80	nw.	.....	.....	2	.....	5	.....	wnw.	.....	.....	sm'h	.....	fair.
U. S. S. Pinta, S. 4° 21′, W. 36° 33′	29.94	760.5	80	26.7	78	ese	.....	.....	1	.....	2	.....	ese.	.....	.....	long	ese.	clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.84	757.9	69.5	20.8	78	n.	.....	.....	2	.....	1	s.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Boadicea, S. 28° 01′, E. 10° 02′	30.12	765.0	70	21.1	.....	se.	.....	.....	3	.....	2	ese.	.....	.....	.....	2	ese.	blue sky.
H. M. S. Opal, Congo River, Guinea	29.94	760.5	80	26.7	91	ene.	.....	.....	1	.....	3	ene.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tyne, S 22° 51′. E. 29° 31′	30.06	763.5	74	23.3	81	ese.	.....	.....	5	.....	0	se.	.....	.....	.....	3	se.	d. clouds.
S. S. Sirius, Rio de Janeiro, Brazil	30.00	762 0	.....	.....	.....	calm	.....	.....	0	.....	2	.....	e.	0	0	.....	.....	clear.
Bk. Chas. Stewart, S. 1° 10′, W. 27° 09′*†	30.04	763.0	80	26.7	.....	se.	.....	.....	6	.....	2	.....	se.	0	0	long	n.	clear.
Bg. Daphne, S. 0° 20′, W. 33° 25′*†	29.90	759.4	82	27.8	83	sse.	.....	.....	3	.....	2	.....	sse.	0	0	long	var.	clear.
Bk. Horace Scudder, S. 6° 52′, E. 0° 14′*†	30.15	765.8	80	26.7	.....	se.	.....	.....	2	.....	5	.....	se.	0	0	light	se.	fine.
S. Parker M. Whitmore, S 18° 20′, W. 25° 05′ *†	30.05	763.3	80	26.7	.....	ne.	.....	.....	4	.....	1	.....	ne.	0	0	sm'h	.....	clear.
S. St. David, S 56° 43′, W 68° 22′ *†	29.80	756.9	50	10.0	79	n.	.....	.....	4	.....	9	.....	nw.	0	0	sm'h	.....	cloudy.
S. David Stewart, Pernambuco, Brazil †	29.86	758.4	87	30.6	.....	se.	.....	.....	5	.....	3	.....	se.	0	0	.....	.....	
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.79	756.7	32.5	0.3	51	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Adams, Sitka, Alaska†	29.86	758.4	36	2.2	90	e.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	fair.
U. S. S. Alert, N. 18° 18′, W. 161° 48′	30.00	762.0	77	25.0	91	ne.	.....	.....	1	.....	10	.....	ene.	.....	.....	sm'h	.....	cloudy.
U. S. S. Essex, Canton, China	30.37	771.4	61	16.1	55	ne.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Juniata, Shanghai, China	30.51	774.9	37	2.8	62	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Monocacy, Shanghai, China	30.53	775.4	39	3.9	64	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Ranger, N. 10° 45′, W. 86° 37′	30.05	763.3	80	26.7	74	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	.....	fair.
U. S. S. Richmond, Shanghai, China	30.57	776.5	40	4.4	73	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	hazy.
H. M. S. Audacious, Hong Kong, China	30.33	770.4	58	14.4	64	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, off Amoy, China	30.32	770.1	54	12.2	74	se.	.....	.....	3	.....	1	.....	.....	.....	.....	sm'h	.....	blue sky.
H. M. S. Champion, Woosung, China	30.51	774.9	40	4.4	64	nw.	.....	.....	1–3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. P. M S. Tamega, Macao, China	30.40	772.1	57.2	14.0	70	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	blue sky.
S. S. Newbern, N. 35° 40′, W. 121° 30′*†	30.30	769.6	58	14.4	82	nw.	.....	.....	4	.....	3	.....	nw.	0	0	long	wnw.	fair.
S. S. Oceanic, N. 33° 00′, E. 151° 58′	29.28	743.7	48	8.9	63	w.	.....	.....	6–9	.....	6	.....	wnw.	sh'rs	sh'rs	7	w.	cloudy.
S. S. Oregon, Astoria, Oregon†	30.23	767.8	43	6.1	100	calm	.....	.....	0	.....	5	.....	ssw.	.....	.....	.....	.....	squally.
S. S. Alameda, N. 37° 30′, W. 123° 39′†	30.25	768.3	51	10.6	93	nnw.	.....	.....	5	.....	1	.....	nw.	0	0	mod	wnw.	clear.
S. S. Ancon, San Pedro, Cal†	30.02	762.5	52	11.1	86	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	dense fog.
S. S. City of Chester, San Francisco, Cal.†	30.25	768.3	48	8.9	78	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	fine.
S. S. Orizaba, N. 37° 00′, W. 119° 48′†	30.26	768.6	56	13.3	81	n.	.....	.....	9	.....	0	.....	.....	0	0	long	sw.	clear.
S. S. Queen of the Pacific, N. 41° 56′, W. 124° 32′†	30.33	770.4	49	9.4	93	sw.	.....	.....	3	.....	2?	.....	sw.	0	0	long	wsw.	cloudy.?
S. S. State of California, Portland, Oregon	30.21	767.3	43	6.1	92	e.	.....	.....	7	.....	5	.....	ne.	.....	.....	.....	.....	fair.
S. S. City of Pekin, Yokohama, Japan	.....	.....	35	1.7	36	w.	.....	.....	5	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Colima, N 15° 55′, W 97° 46′ †	29.99	761.7	75	23.9	95	wnw.	.....	.....	3	.....	1	.....	calm	0	0	small	se.	clear.
S. S. Granada, Acapulco, Mexico†	30.00	762.0	74	23.3	90	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Radnorshire, N. 8° 53′, E. 108° 50′	.....	.....	.....	.....	.....	nne.	.....	.....	6	.....	10	.....	nne.	h'vy	h'vy	h'vy	nne.	cloudy.
District No. 4—South Pacific.																		
U. S. S. Hartford, Valparaiso, Chili	30.04	763.0	63	17.2	89	calm	.....	.....	0	.....	5	.....	n.	.....	.....	sm'h	.....	
U. S. S. Iroquois, Talcahuano, Chili	30.09	764.3	57	13.9	81	sse.	.....	.....	3	.....	10	.....	se.	.....	.....	sm'h	se.	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili	30.01	762.2	63	17.2	78	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Onward, Callao, Peru *†	30.10	764.5	66	18.9	89	calm	.....	.....	0	.....	10	.....	.....	.....	.....	sm'h	.....	misty.
U. S. S. Wachusetts, Callao, Peru*†	30.07	763.8	65	18.3	100	sse.	.....	.....	1	.....	10	.....	calm	.....	.....	sm'h	.....	overcast.
H. M. S. Diamond, S. 33° 52′, E. 151° 14′	30.06	763.5	73	22.8	85	nne.	.....	.....	2–4	.....	3	n.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.01	762 2	65	18.3	89	w.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	misty.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.97	761.2	64	17.8	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.82	757.4	56	13.3	100	ssw.	.....	.....	3	.....	5	w.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.67	753.6	50	10.0	89	wnw.	.....	.....	1	.....	8	ese.	.....	.....	.....	.....	.....	d. clouds.
S. S. Australia, S. 22° 37′, W. 175° 05′	30.07	763.8	74	23.3	.....	se.	.....	.....	4	.....	6	se.	.....	0	0	mod.	se.	cloudy.
Bk. City of Sydney, S. 38° 48′, E. 179° 53′*†	30.06	763.5	71	21.7	95	ne.	.....	.....	2	6 ck	.....	ne.	.....	.....	.....	light	ne	fair.
S. S. Alpheus Marshall, S. 3° 23′, E. 169° 15′*†	29.66	753 4	81	27.2	91	wsw.	.....	.....	4	.....	10	.....	wnw.	5 h'r	5 h'r	rg'h	wnw.	heavy rain.
Bk. Godeffroy, S. 15° 57′ W. 121° 11′ *†	30.08	764.0	.....	.....	.....	e.	.....	.....	5	.....	5	.....	ene.	0	0	mod.	ese.	fair.
S. S. George S Homer, S. 55° 35′, W. 70° 39′	29.46	748.3	47.3	8.5	94	nne.	.....	.....	5	.....	10	.....	.....	light	light	mod	nne.	rain & fog.
S. S. Francis, S. 40° 00′, W. 84° 00′*†	30.20	767.1	59	15.0	82	nw.	.....	.....	5	.....	3	.....	wnw.	.....	.....	sm'h	nw.	clear.
S. S. Grecian, S 14° 39′, W. 127° — ′	30.10	764.5	79	26.1	78	e.	.....	.....	6	.....	4	.....	e.	1 h'r	1 h'r	long	s.	clear.
S. S. Henry Failing, S. 21° 40′, W. 124° 33′*†	30.10	764.5	82	27.8	91	e.	.....	.....	5	.....	2	.....	e.	0	0	sm'h	s.	clear
H. M. S. Espiegle, S. 41°, 06′, E. 176° 30′	29.78	756.4	62	16.7	61	wnw.	.....	.....	0	.....	0	.....	.....	.....	.....	2	nnw.	squally.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Johanna, Comoro Islands, Africa	29.89	759.2	82	27.8	79	ne.	.....	.....	5	.....	10	.....	ne.	0.81	20.6	long	.....	cloudy.
U. S. S. Pensacola, S. 15° 55′, E. 67° 22′*	29.86	758.4	81	27.2	78	ese.	.....	.....	4	.....	8	.....	se.	light	light	sm'h	ese.	cloudy.
H. M. S. Coquette, N. 15° 36′. E. 39° 24′	30.16	766.1	74	23.3	95	nnw.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	30.10	764.5	76	24.4	73	n.	.....	.....	4	.....	4	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Orontes, N. 4° 40′, E. 65° 35′	29.98	760.7	82	27.8	100	ne.	.....	.....	2	.....	4	s.	.....	.....	.....	1	ne.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.98	761 5	81	27.2	83	e.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Galatia, N. 11° 21′, E. 54° 03′†	30.00	762.0	78	25.6	91	ene.	.....	.....	3	.....	2	.....	ene.	.....	.....	mod.	ne.	fine.
S. S. Benalder, N. 4° —′, E. 99° —′ *	30.01	762.2	80	26.7	78	calm	.....	.....	0	.....	8	.....	ne.	2 h'r	2 h'l	sm'h	.....	cloudy.
S. S. Port Phillip, N. 12° 17′, E. 47° 31′*	30.02	762.5	78	25.0	.....	ene.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	se.	cloudy.
S. S. Carondelet, S. 20° 58′, E. 112° 20′ *†	29.90	761.0	.....	.....	.....	ssw.	.....	.....	3	.....	1	.....	ssw.	0	0	sm'h	ssw.	clear.
S. S. Lepanto, Bombay, India	.....	.....	82	27.8	.....	ne.	.....	.....	3	.....	5	.....	ne.	0	0	.....	.....	fair.
H. M. S. Magpie, N. 7° 30′, E. 98° 19′	29.95	760.7	81.5	27.5	71	ne.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.

International Chart I. January 9, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 10, 1884,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.39	771.9	57.2	14.0	78	w.			1		10			0	0	covered	Roziere.
Algiers			30.33	770.4	53.6	12.0	76	nne.			5		10			0.575	14.6	covered	Aubert.
La Galle			30.06	763.6	59.0	15.0	96	nne.			2		4			0	0	cloudy	Fonfrède.
Tunis			30.04	763.1	55.0	12.8	85	ne.			4		4			0.157	4.0	cloudy	Delord.
Tebessa					46.0	7.8	67	w.			2		6			0	0	cloudy	Hans.
Geriville					41.4	5.2	84	n.			2		4			inap.	inap.	cloudy	Forfert.
Laghouat			30.29	769.4	52.2	11.2	75	calm			0		0			0	0	clear	Abraham.
Biskra			30.20	767.0	55.8	13.2	45	n			2		4			0.047	1.2	clear	Gouson.
Australian.																			
Adelaide, South Australia			29.95	760.7	81.5	27.5	34	ese.	8	3.6			8 k		w.	0	0	cloudy	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.84	757.9	30.03	762.7	55.6	13.1	76	e.			1		9		e.	0	0	cloudy	Com. I. Short, R. N.
Melbourne, Victoria	29.98	761.5	30.07	763.8	58.0	14.4	75	sse.	5	2.2			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.97	761.2	30.56	776.1	34.3	1.3	54	sw.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.51	749.5	30.31	769.8	38.5	3.6	92	w.	11.2	5.0			10			0.083	2.1		Dr. Wierzbiski
Eperies	29.48	748.8	30.43	772.8	24.8	— 4.0	93	calm			0		10			0	0	foggy	Julius Mikolik.
Gratz	29.22	742.1	30.54	775.8	31.6	— 0.2	68	se.			1		0			0	0		Andreas Rospini.
Hermannstadt	29.01	736.9	30.55	776.0	29.1	— 1.6	90	w.			2		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	29.17	740.9	30.58	776.6	39.2	4.0	75	sw.			2	10				0	0	clear	The Staff.
Lemberg	29.17	740.8	30.20	767.1	34.0	1.1	87	w.			5		10			0.110	2.8		Dr. T. Stanecki.
Pola	30.41	772.4	30.52	775.3	46.6	8.1	62	nw.			4		0			0	0		I. R. Hydrographic Office
Szathmar	29.99	761.8	30.49	774.5	30.0	— 1.1	88	e.			2		10			0.059	1.5		Joseph Midlinszky, S. J
Szegedin	30.23	767.9	30.53	775.5	36.9	2.7	82	sw.			2		7			0	0		Karl Stancel.
Trieste	30.47	773.8	30.56	776.3	45.9	7.7	59	calm			0		0			0	0		Royal Academy.
Vienna	29.76	755.9	30.50	774.8	42.8	6.0	60	w.			3		3			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	29.01	736.9	30.46	773.7	39.2	4.0	98	sw.			2		8			0	0	fog & mist	
Brussels	30.26	768.6	30.47	773.9	45.7	7.6	91	sw.			4	3		w.		0	0		
Furnes	30.29	769.4	30.31	769.9	49.1	9.5	90	w.			1		8			0.024	0.6		
Maeseyck	30.34	770.5	30.46	773.7	46.8	8.2	86	s.			1		9			0	0		
British.																			
Aberdeen	29.73	755.1	29.83	757.7	47.5	8.6	65	ssw.	14	6.3			3			0	0	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			30.18	766.6	52.1	11.2	77	sw.	6	2.7			2					blue sky	John Hartnup.
Bolton, Sharples	29.66	753.4	30.20	767.1	50.3	10.2	82	ssw.	24	10.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.74	755.4	30.14	765.5	50.9	10.5	75	sw.			5		4			0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.03	762.7	30.06	763.5	80	26.7	70	ne.			3		4					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	30.23	767.8	30.35	770.9	46.4	8.0	86	sw.			0.6		8					overcast	John McLaren.
Chatham, School M. E.	30.21	767.3	30.39	771.9	49.5	9.7	75	w.			1		8					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.20	767.1	30.44	773.2	50.8	10.4	80	ssw.			2		10					overcast	The Staff.
Fort Napier, Natal	27.68	703.1	29.99	761.7	66.0	18.9	84	e.			1		10					showery	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	86	30.0	65	e.			1		3					d. clouds	J. W. Smith.
Galway, Queen's College	30.09	764.3	30.13	765.3	48	8.9	92	sw.			6		9			0.36	9.1	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.32	770.1	30.37	771.4	59.9	15.5	84	e.			5		3					d. clouds	Sgt. F. Norris, A.H.C.
Greenwich, Royal Obs'y	30.19	766.8	30.37	771.4	49.9	9.9	77	wsw.			3		7					d. clouds	The Staff.
Guernsey	30.19	766.8	30.49	774.4	49.0	9.4	85	ssw.			1		6					d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	30.36	771.1	30.39	771.9	49.5	9.7	74	sw.	10	4.5			8					d. clouds	The Staff.
Leicester, Museum	30.01	762.2	30.27	768.8	48.0	8.9	85	sw.			2		5					d. clouds	J. C. Smith.
Malta, Mediterranean	30.13	765.3	30.20	767.1	58.4	14.7	68	ne.			2		10			0.87	22.1	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.24	768.1	30.29	769.4	65.5	18.6	66	ne.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.14	765.5	30.37	771.4	48.8	9.3	72	sw.			5		9					overcast	The Staff.
Plymouth	30.37	771.4	30.45	773.4	49.7	9.8	91	calm			0		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.49	749.0	29.89	759.2	44	6.7	84						1					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.39	771.9	30.46	773.7	46.4	8.0	47	e.			1		3					d. clouds	W. H. Lyne.
Sheffield	29.89	759.2	30.18	766.6	52.0	11.1	79	sw.			5		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.02	762.5	30.05	763.3	46.1	7.8	99	sw.			3		10			0.020	0.5	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.20	767.1	50.0	10.0	80	sw.	19	8.5			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					49.9	9.9	97	w.			2.0		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.22	767.6	30.24	768.1	50.6	10.3	94	wsw.	11	4.9			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.84	757.9	30.23	767.8	55.0	12.8	77	e.	13.7	6.1		10 ck	0	w.		0.79	20.1	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.21	741.9	29.25	742.9	38.0	3.3		sw.	10	4.5			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.28	743.7	29.32	744.7	38	3.3	91	sw.	12	5.4			10 n		sw.	0.240	6.1	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.19	741.4	29.25	742.9	36	2.2	79	sw.	15	6.7			10 s		sw.	0.37	9.4	cloudy	G. A. Blair.
Cornwall, Ontario	29.50	749.3	29.70	754.4	13.4	—10.3	85	e.			2	0	1 s			0.400	10.2	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.								calm			0		10 s			0.500	12.7	overcast	H. A. Johnson.
Father Point, Quebec*	29.16	740.7	29.19	741.4	23	— 5.0	76	sw.	30	13.4		5 cs	5 s	sw.	sw.	0.20	5.1	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.30	744.2	30.25	768.3	— 7	—21.7	100	n.	18	8.0		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	29.27	743.4	29.34	745.2	32.2	0.1	63	sw.	15	6.7			10 s			0.720	18.3	d. clouds	Prof. Thos. Harrison
Grand Manan, N. B.	29.35	745.5	29.41	747.0	33	0.6	88	sw.	35	15.6			10 ks		sw.	0.47	11.9	cloudy	J. Chipman Seeley
Granton, Ontario	28.75	730.2	29.96	761.0	5.7	—14.6	95	calm	0	0		c	1 s			inap.	inap.	blue sky	Jas. Grant.
Halifax, N. S*	29.33	745.0	29.46	748.3	37	2.8	92	sw.	9	4.0		8 ck	0	w		0.858	21.8	cloudy	A. Allison.
Hamilton, Ontario	29.35	745.5	29.79	756.7	18.5	— 7.5	91	sw.			1	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.46	748.3	29.82	757.4	14	—10.0	80	w.	6	2.7		0	0			0.45	11.4	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.31	769.9	30.35	770.9	42.0	5.6	96	sw.	4	1.8			10 n					raining	C. H. Rigby.
London, Ontario	28.96	735.6	29.95	760.7	10.8	—11.8	88	sw.			2	3 ck	0			0.30	7.6	d. clouds	E. B. Reed.
Medicine Hat, N. W. T.	28.01	711.4	30.52	775.2	10	—12.2	91	calm	0	0			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	28.15	715.0	30.35	770.9	—10	—23.3		nw.	12	5.4		0	0			inap.	inap.	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.42	747.3	29.64	752.8	14	—10.0	83	sw.	30	13.4			10 s			0.17	4.3	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.48	748.8	29.72	754.9	10.0	—12.2	79	wsw.				0	0			0.10	2.5	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.06	738.1	29.82	757.4	2	—16.7	76	e.	4	1.8		2 k	5 k	w.	w.	0.22	4.3	fair	Rev. R. Mosley.
Peterboro, Ontario	29.07	738.4	29.85	758.2	17.7	— 7.9	79	w.			1	0	5 k			0.210	5.3	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.11	739.4	29.87	758.7	12	—11.1	83	wnw.	3	1.3		0?	0?			0	0	cloudy?	W. P. Cooke.
Port Dover, Ontario	29.21	741.9	29.96	761.0	13	—10.6	100	sw.	11	4.9		5 c	5 n	sw.	s.	0.06	1.5	cloudy	H. Morgan.
Port Stanley, Ontario	29.25	742.9	29.94	760.5	18	— 7.8	84	w.	7	3.1			10 n		sw.	0.10	2.5	cloudy	M. Payne.
Qu Appelle, N. W. T	27.96	710.2	30.59	777.0	—15	—26.1		nw.	10	4.5		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.05	737.9	29.43	747.5	15	— 9.4	91	sw.	18	8.0			10 ks		w.	0.20	5.1	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.25	742.9	29.75	755.6	3	—16.1	91	calm	0	0		0	0			0.20	5.1	clear	W. H. McIntyre.
St. Andrews, N. B.	29.28	743.7	29.33	745.0	31	— 0.6	91	w.	16	7.2			10 n			1.02	25.9	cloudy	
St. John, N. B	29.24	742.7	29.38	746.2	33.0	0.6	90	sw.	24	10.7		5 k	5 k	w.		0.705	17.9	overcast	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			29.65	753.0	46.4	8.0		s.			4								The Commandant.
Saugeen, Ontario*	29.04	737.6	29.80	756.9	21	— 6.1	96	sw.	18	8.0			10 s			0.12	3.0	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario																			W. Mc Bride, M. A.
Sydney, C. B.*	29.39	746.5	29.45	748.0	43	6.1	100	s.	12	5.4			10 n			1.31	33.3	heavy rain	T. C. Hill, C. E.
Toronto, Ontario*	29.52	749.8	29.94	760.5	15	— 9.4	83	w.	15	6.7			10 s		w.	0.06	1.5	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.82	732.0	29.99	761.7	7.8	—13.4	82	sw.	2	0.9		5 cs	0			0.850	21.6	d. clouds	Prof. N Wolverton, M.A.
Yarmouth, N. S.*	29.41	747.0	29.48	748.8	33	0.6	81	w.	24	10.7			10 k		w.	0.70	17.8	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.18	766.6	30.21	767.3	71.0	21.7	95	se.				0	0			0.280	7.1	fine	I. Garfelt.
Cape Town, The Castle	29.96	761.0			71.5	21.9	44	e.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4			86	30.0	39									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.93	760.3	30.01	762.3	63.5	17.5	90	e.			1	10	0					cloudy	Samuel Redolez.
Iquique	29.96	761.0	29.99	761.7	69.8	21.0	81	sw.			2							foggy	Rafael Moreno.
Niebla	29.67	753.6	29.78	756.3	57.2	14.0	91	w.			1	0	8		w.	0.205	5.2	misty	Federico Köhling.
Punta Caldera	29.85	758.1	29.93	760.3	67.1	19.5	69	sw.			2	0	6 n		sw.			fair	Manuel Tobar.
Punta Corona	29.89	759.3	30.08	764.0				n.			4	10	0			0	0	cloudy	Francisco Alvarado.
Valparaiso	29.80	756.9	29.94	760.4	68.5	20.3	70	sw.				0	0					clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.50	774.6	30.52	775.2	38.5	3.6	73	ese.	4.9	2.2		10 ck		w.		0	0		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.01	762.2	30.06	763.4	45.0	7.2	91	w.	13	6			10					foggy	Oversergent Fischer.
Fanöe	30.05	763.3	30.07	763.8	42.8	6.0	96	wsw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.88	758.9	29.92	760.0	1.0	—17.2	95	ene.			2		9						S. Kleinschmidt.
Stykkisholm, Iceland	28.74	729.9	28.78	731.0	25.5	— 3.6	89	sw.			4		10					snowing	A. O. Thorlacius.
Thorshavn	29.15	740.4	29.17	741.0	38.7	3.7	75	sw.	22	10			8						Overloerer Bergh.
Vestervig	29.82	757.5	29.92	759.9	42.3	5.7	100	wsw.			6		10					raining	Loerer Oesterno.
Egyptian.																			
Cairo	30.12	765.1			63.0	17.2		w.	0.9	0.4		0	2 k			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.94	760.5	30.62	777.8	37.4	3	100	sse.			1					0	0	foggy	M. Labroue, Director.
Alençon, Normal School	30.04	763.1	30.60	777.1	39.6	4.2	97	sw.			1		10 n			0	0	covered	M. Nicot, Director.
Arras, Normal School			30.45	773.5	45.0	7.2	83	sw.			1		0			0	0	clear	M. Ungerer, Director.
Avignon, Normal School	30.47	774.0	30.55	776.0	50.4	10.2	52	nnw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.03	762.8	30.61	777.6	41.0	5.0	92	s.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.30	769.5	30.58	776.6	40.5	4.7	74	se.			1		0			0	0	clear	M. Frère Eugène Marlé.
Besançon, Normal School	29.61	752.2	30.54	775.8	45.7	7.6	83	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.26	768.5	30.53	775.4	44.1	6.7	91	ene.			1		2			0.004	0.1	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.98	761.5	30.56	776.1	41.9	5.5	91	e.			1				e.	0.020	0.5		M. Sauvageot, Director.
Brest, Naval Observatory	30.27	768.8	30.51	775.0	52.5	11.4	85	s.			2		3		s.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.45	773.3	30.52	775.3	42.8	6	97	e.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	30.21	767.4	30.59	776.9	37.9	3.3	91	s.			1		10			0.016	0.4	covered	M. Jadot, Director.
Charleville, Normal School	30.04	763.1	30.56	776.3	36.1	2.3	82	e.			1					0.04	1.	misty	M. Noël, Director.
Clermont-Ferrand Obs'y	29.18	741.2	30.58	776.8	46.2	7.9	73	wnw.			1		0			0	0		M. Alluard, Director.
Cluny, Normal School	29.72	755.0	30.64	778.2	42.8	6	85	ne.			1		2		ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.72	754.8	30.60	777.3	41.2	5.1	90	sw.			1		10 ns	sw.	sw.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.93	709.5	30.55	775.9	46.4	8	53	calm			0		0			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.36	745.8	30.50	774.8	55.9	13.3	25	n.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.82	757.4	30.63	778.0	39.6	4.2	77	w.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.91	734.2	30.59	777.0	37.8	3.2	93	ne.			1		1		ne.	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.94	760.5	30.54	775.8	51.1	10.6	62	sse.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.47	774.0	30.58	776.6	47.3	8.5	73	sse.			1		10		s.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.52	749.9	30.63	778.1	41.2	5.1	81	e.			1	5 ck				0	0	cloudy	M. André, Director.
Mans, Normal School	30.28	769.2	30.61	777.5	36.9	2.7		sw.			1		10			0	0	foggy	M. Richard, Director.
Marseille, Observatory	30.21	767.2	30.48	774.2	59.7	15.4	50	w.			0–1		0			0	0		M. Stephan, Director.
Montlouis	25.18	639.5	30.02	762.5	40.6	4.8	56	nw.	11.2	5.0			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.40	772.2	30.51	775.0	51.8	11	97	n.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.78	756.4	30.60	777.2	42.4	5.8	78	sw.			1		kn		nw.	0	0		M. Hasse, Director.
Nantes, Observatory	30.45	773.3	30.61	777.4	39.6	4.2	94	ese.			0–1		10			0	0		M. Larocque, Director.
Perpignan, Observatory	30.45	773.4	30.56	776.3	51.1	10.6	72	se.	5.6	2.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.50	546.1			32.2	0.1		e.			1		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.52	749.7	30.62	777.8	47.1	8.4	70	w.			1		1		n.	0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.54	648.7			37.8	3.2	27	ene.			4	c				0	0		M. Alluard.
Rochefort, Naval Obs'y	30.56	776.1	30.59	776.9	39.6	4.2	93	ne.			4					0.12	3.	misty	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.31	769.8	30.54	775.6	39.0	3.9	97	sw.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.19	715.9	30.39	771.8	48.0	8.9		w.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.50	774.8	30.55	776.3	39.2	4	83	se.			1		1	se.		0	0	clear	M. Mouillot, Dir.
St. Lô, Normal School			30.40	772.1	47.5	8.6	70	s.			1		0			0	0	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	30.43	772.9	30.60	777.1	34.7	1.5	100	ssw.			1		10			0.004	0.1	covered	M. Renou, Director.
Toulouse, Observatory	29.84	757.8	30.57	776.4	44.6	7.0	87	ese.			1		8	sw.		0	0	very cloudy	M. Baillard, Director.
Tours	30.34	770.7	30.52	775.2	39.6	4.2	90	ese.			1					0.004	0.1	foggy	M. de Tastes.
Versailles, Observatory	30.07	763.8	30.56	776.3	37.0	2.8	89	sw.			1		0			0	0		Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.37	771.3	30.52	775.1	50.5	10.3	72	e.	9.8	4.4		2 c				0	0		M. Cartier, Director.
German.																			
Ansbach	29.07	738.4	30.59	776.9	41.7	5.4	77	w.			2		9	w.		0	0		Prof. Jnedt.
Bamberg	29.64	752.8	30.49	774.5	43.5	6.4	60	calm			0		8 ks			0	0	foggy	Prof. Dr. Hoh.
Berlin	30.17	766.3	30.32	770.0	46.0	7.8	92	w.			4		10			0.028	0.7		Meteorological Institute
Breslau	29.79	756.6	30.32	770.2	43.3	6.3	91	wnw.			5		10			0.008	0.2		Royal University Obs'y
Carlsruhe	30.11	764.7	30.59	777.0	45.0	7.2	74	sw.			3		3	sw.		0	0		Albert Senz.
Cassel	29.70	754.4	30.41	772.5	45.7	7.6	74	s.			4		7	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.16	766.1	30.55	775.9	46.2	7.9	78	sw.			1		10			0	0		Physical Society.
Friedrichshafen	29.14	740.2	30.65	778.5	33.4	0.8	89	w.			1		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.19	766.9	30.28	769.2	45.0	7.2	89	sw.			4		10			0.031	0.8	dense haze	E. Preller.
Kiel	30.17	766.4	30.19	766.8	45.7	7.6	90	wsw.			1		10			0.063	1.6		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.98	761.5	30.42	772.6	45.0	7.2	86	w.			3		10			0	0		H. Leppig, Asst.
Magdeburg	30.16	766.1	30.36	771.1	47.7	8.7	83	wsw.			4		10			0	0	foggy	Weather Observatory.
Memel	29.91	759.7	29.96	760.9	37.6	3.1	96	nw.			6	8 cs							Issermann.
Munich	28.70	728.9	30.60	777.1	40.1	4.5	69	calm			0		1	sw.		0	0		Central Station.
Neufahrwasser	30.08	764.0	30.10	764.4	42.1	5.6	93	w.			3		10			0.028	0.7		A. Lothes.
Neustadt, Palatinate	29.98	761.6	30.52	775.2	46.4	8.0	69	w.			1		8			0	0		Dicknether.
Stuttgart	29.59	751.5	30.51	774.9	45.0	7.2	74	s.			1		2	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.14	765.5	30.16	766.1	41.9	5.5	97	sw.			5		10			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	30.06	763.4	30.45	773.4	52.5	11.4		n.			2.5	0	2 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.99	761.8	30.05	763.2	72.7	22.6	76	wsw.	25.0	11.2			3	wsw.		0	0	d. clouds	
Deesa	29.58	751.3	30.06	763.4	81.1	27.3	24	wsw.	5.0	2.2			0			0	0	blue sky	
Bombay	30.00	762.1	30.04	763.1	77.5	25.3	71	nw.	11.0	4.9			0			0	0	blue sky	
Poona, Yarrowda	28.18	715.8	30.05	763.3	78.3	25.7	20	ene.	7.0	3.1			0			0	0	blue sky	
Belgaum	27.47	697.7	30.02	762.5	76.3	24.6	24	ene.	5.0	2.2			0			0	0	blue sky	
Lahore	29.31	744.5	30.09	764.2	62.6	17.0	62	calm	0	0			8			0	0	overcast	
Roorkee	29.14	740.2	30.08	764.0	64.8	18.2	49	calm	0	0			3			0	0	blue sky	
Agra	29.50	749.3	30.08	764.0	72.7	22.6	39	nw.					5			0	0	d. clouds	
Nagpur	29.93	737.3	30.09	764.3	74.2	23.4	29	calm	0	0			2			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.73	729.7	30.13	765.3	67.7	19.8	46	calm	1.0	0.4			0			0	0	blue sky	
Lucknow	29.70	754.5	30.10	764.4	68.3	20.2	45	calm	0	0			0			0	0	blue sky	
Allahabad	29.77	756.2	30.10	764.6	64.3	17.9	65	calm	0	0			0			0	0	blue sky	
Patna	29.93	760.1	30.12	765.1	64.0	17.8	62	ese.	1.8	0.8			0			0	0	blue sky	
Hazaribagh	28.02	711.8	30.10	764.6	64.2	17.9	34	wnw.	6.0	2.7			0			0	0	blue sky	
Cuttack	30.01	762.3	30.10	764.4	70.8	21.6	62	nnw.					0			0	0	blue sky	
Calcutta, Alipore	30.07	763.8	30.09	764.4	64.6	18.1	70	calm	0	0			0			0	0	blue sky	
Dhubri	30.01	762.1	30.13	765.3	65.9	18.8	56	calm	0	0			0			0	0	blue sky	
Chittagong	30.02	762.4	30.11	764.8	66.1	18.9	67	calm	1.9	0.8			0			0	0	blue sky	
Sibsagar	29.79	756.8	30.15	765.8	58.7	14.8	79	ne.	2.0	0.9			5	w.	w.	0	0	d. clouds	
Jeypore	28.61	726.8	30.08	764.1	74.3	23.5	33	nnw.	2.0	0.9			4	n.		0	0	d. clouds	
Zanzibar	29.85	758.3	29.88	758.8	84.9	29.4	64	ne.	8.9	4.0			3	n.		0	0	squally	
Bellary	28.54	724.9			77.5	25.3	32	e.	2	0.9		0	0			0	0	blue sky	
Trichinopoly	29.77	756.1			80.5	26.9	48	ne.	0.1	0.02		0	0			0	0	blue sky	
ITALIAN.																			
Udine	30.11	764.8	30.54	775.6	46.2	7.9	35	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	30.04	763.1	30.59	776.9	40.5	4.7	72	nw.	2.5	1.1			0			0	0		Prof. G.V. Schiapparelli
Padua	30.44	773.2	30.56	776.1	40.3	4.6	62	nnw.	1.8	0.8			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.65	753.1	30.60	777.3	37.6	3.1	78	nne.	1.8	0.8			0			0	0		Prof. F. F. Denza.
Genoa	30.30	769.6	30.50	774.6	54.0	12.2	29	ne.	2.5	1.1			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.52	775.2	30.57	776.5	43.9	6.6	60	nnw.	9.4	4.2			0			0	0		Prof. Luigi Guidi.
Florence	30.19	766.8	30.45	773.5	49.3	9.6	42	ene.			2		0			0	0		Prof. Costantino Pittei
Leghorn	30.32	770.2	30.41	772.4	52.5	11.4	44	nne.	10.5	4.7			0			0	0		Prof. P. Monte.
Rome	30.25	768.4	30.43	773.0	55.9	13.3	52	n.	3.8	1.7			0			0	0		Prof. P. Tacchini.
Lecce	30.19	766.8	30.45	773.4	55.0	12.8	72	nne.	9.4	4.2			1			0	0		Prof. C. de Giorgi.
Cosenza	29.47	748.5	30.39	771.9	50.0	10.0	74	wsw.	1.8	0.8			5	sw.		0.039	1.0		Prof. D. Conti.
Cagliari	30.10	764.6	30.30	769.6	61.3	16.3	61	se.			4		5	e.		0.217	5.5		Prof. A. Pacinotti.
Palermo	30.04	762.9	30.29	769.4	58.3	14.6	68	ne.	6.3	2.8			10			0.484	12.3		Prof. G. Caccintore.
Syracuse	30.21	767.2	30.25	768.4	57.2	14.0	78	ese.	16.1	7.2			10	se.		0.650	16.5		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.91	759.7	30.44	773.1	55.8	13.2	66	ne.	0.7	0.3			0			0.004	0.1		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.96	761.0	29.99	761.9	22.0	— 5.6	60	nw.			7	3 c	7 n;k	w.	w.	0.055	1.4	snowing	H. Hattori.
Awomori	29.86	758.4	29.89	759.2	21.0	— 6.1	55	nw.	11.9	5.3			10 s;n		w.	0.114	2.9	overcast	K. Ogawa.
Hakodate	29.87	758.7	29.88	759.0	20.2	— 6.6	93	nnw.	19.8	8.8		0	2 k			0	0	clear	Y. Souma.
Hamamatsu	30.09	764.3	30.19	766.8	27.0	— 2.8	40	wnw.			4	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.41	772.4	30.43	772.8	29.5	— 1.4	75	nw.	0.7	0.4		0	6 n		n.	0.011	0.3	light snow	Y. Okamoto.
Kagoshima	30.46	773.8	30.48	774.1	30.0	— 1.1	83	calm			0	0	0			0	0	clear	
Kanazawa	30.18	766.6	30.29	769.4	26.1	— 3.3	83	w.	13.6	6.1			10 n			0.450	11.4	snowing	S. Endo.
Kioto	30.11	764.7	30.28	769.1	28.2	— 2.1	86	sw.	5.5	2.4			10n;ck		nw.	0.028	0.7	light snow	M. Tojima.
Kochi	30.33	770.4	30.36	770.9	30.0	— 1.1	83	w.	1.9	0.8		1 ck?	0	w.		0	0	overcast?	K. Kusunose.
Miasaka	30.40	772.1	30.43	772.9	31.2	— 0.4	46	wnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.75	755.7	29.86	758.5	22.0	— 5.6	51	wsw.	2.6	1.2		0	1 s			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.27	768.8	30.49	774.4	31.9	— 0.1	78	ne.	2.4	1.1		7 c	3 s	nw.		0.010	0.3	cloudy	
Nemuro	29.65	753.1	29.70	754.4	20.0	— 6.7	68	w.	24.0	10.7		6 c	0	w.		0	0	fair	A Shibuya.
Niigata	30.08	764.0	30.11	764.8	24.2	— 4.3	83	nw.	24.3	10.8			10 n		nw.	0.490	12.4	light snow	Satoo & Tomikawa.
Nobiru	29.96	761.0	29.98	761.4	21.0	— 6.1	85	nw.	18.9	8.4		5 cs	3 ks			0.010	0.3	fair	Yoshino & Midzushina.
Numadzu	30.05	763.3	30.08	764.1	28.0	— 2.2	31	ese.			4	0	0			0	0	clear	T. Ohgi.
Osaka	30.29	769.3	30.31	769.8	29.1	— 1.6	76	w.	2.9	1.2			9s;ck		nw.	0	0	cloudy	H. Omura.
Sakai	30.35	770.9	30.36	771.1	32.9	0.5	80	nw.			4		9 ks		wnw.	0.087	2.2	cloudy	Yamawchi & Sakamoto.
Sapporo	29.78	756.3	29.85	758.1	17.0	— 8.3	47	nw.	18.2	8.1		0	3 s			0.010	0.3	clear	S. Kimura.
Shimonoseki	30.30	769.6	30.44	773.3	32.5	0.3	72	nw.			2	0	8s;ks		nw.	0	0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.03	762.7	30.11	764.8	27.0	— 2.8	25	nnw.	15.1	6.7		0	0			0	0	clear	The Staff.
Wakayama	30.26	768.7	30.32	770.1	33.9	1.1	81	nnw.	8.1	3.6			10 ck		n.	0	0	cloudy	K. akai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.79	756.7	29.98	761.5	79.0	26.1	68	ene.	11.0	4.9		4ck;cs	5ks;n	wsw.	e.	0.63	16.0	cloudy	The Staff.
MEXICAN.																			
Leon	24.31	617.5	30.18	766.6	42.8	6.0	81	nne.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.78	756.4	30.04	763.1	66.0	18.9	94	wnw.	1.6	0.8		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.44	773.1	30.44	773.1	46.8	8.2		sw.			4					0	0		
Groningen	30.28	769.2	30.34	770.6	45.3	7.4		wsw.			3					0	0		
Helder	30.26	768.5	30.26	768.5	45.1	7.3		sw.			5					0	0		
Hellevoetsluis	30.39	771.9	30.39	771.9	50.9	10.5	87	wsw.			4					0	0		
Utrecht	30.34	770.7	30.40	772.1	47.5	8.6	87	sw.			4		7			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.93	760.3			75.4	24.1	93	w	0.5	0.2			10			1.024	26.0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.63	752.5	29.69	754.1	43.5	6.4	94	s.	20	9			10			0.354	9.0	raining	
Brono	29.31	744.4	29.35	745.4	38.3	3.5	83	sw.			6		10			0.087	2.2	raining	
Christiania	29.63	752.5	29.78	756.4	26.6	— 3.0	100	nnw.	0	0			10			0	0	foggy	
Gjesvær	28.87	733.4	28.90	734.0	34.2	1.2		sw.			9		10			0.094	2.4	raining	
Lodingen	29.10	739.1	29.15	740.3	34.9	1.6	82	wsw.			3		4			0.394	10.0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira																			Capt. D. A. de Cunha.
Lisbon, Observatory	30.01	762.2	30.10	764.4	64.8	18.2	77	se.	1.3	0.6			7			0.039	1.0		The Staff.
Ponta Delgada, Azores	30.02	762.4	30.36	771.2	52.7	11.5	54	ene.	8.7	3.9			1			0	0		
Saint Paul de Loando	30.07	763.7	30.14	765.5	63.0	17.2	78	calm	0	0			3			0	0		
St. Vincent, Cape Verd Ids.																			
San Salvador, Congo	29.97	761.3	30.01	762.2	68.2	20.1	68	calm			0		2			0	0		
Serra da Estrella	28.07	712.9	29.89	759.2	79.9	26.6	67	w			1		9			0	0		
RUSSIAN.	25.58	649.6	30.45	773.3	40.5	4.7	61	ese.	31.8	14.2			0			0	0		
Akmolinski	28.68	728.5	29.85	758.1	11.7	—11.3	75	se.	9	4			10 n			0.067	1.7		Major K. Lasarew.
Archangel	29.87	758.7	29.89	759.2	— 8.0	—22.2	93	ssw.	2	1		0	0			0	0		Capt. Sseliwerstow
Ashurada	30.19	766.7	30.09	764.3	52.7	11.5	80	nne.	9	4		0	0			0	0		
Astrakhan	30.21	767.4	30.13	765.3	15.6	— 9.1	66	w.	18	8		0	8 ks			0.016	0.4		Capt. Wisganow.
Baku	30.24	768.2	30.20	767.0	34.2	1.2	67	nnw.	22	10		0	7 ks			0.008	0.2		
Barnaul	29.70	754.4	30.26	768.5	4.3	—15.4	64	sw.	9	4			6			0	0	light clouds	Meteorological Office.
Bielosersk	29.48	748.6	29.99	761.7	4.5	—15.3	93	calm	0	0			10 s			0	0		
Dorpat	29.40	746.7	29.65	753.1	26.6	— 3.0	100	wnw.	4	2			10 n			0.299	7.6	light snow	Observatory.
Ekaterinburg	28.88	733.5	29.91	759.7	14.9	— 9.5	84	wsw.	2	1			10			0	0	solar halo	Meteorological Obs'y.
Elissawetgrad	29.76	755.9	30.25	768.4	14.5	— 9.7	86	sw.	9	4			10 n			0.028	0.7		
Kasan	29.41	747.1	29.70	754.4	16.5	— 8.6	88	ene.	2	1			10			0	0		Observatory.
Kem	29.75	755.7	29.80	757.0	6.4	—14.2	87	s.	18	8			9 ks			0	0		
Kertch	30.28	769.2	30.31	769.8	22.8	— 5.1	66	w.	7	3		0	0			0	0		Lagorio & Sastyrei.
Kieff	29.31	744.5	29.99	761.8	19.4	— 7.0	97	s.	4	2			10 n			0.173	4.4		Observatory.
Koslov	29.32	744.8	29.89	759.1	— 4.7	—20.4	74	wnw.	7	3		0	1 s			0.012	0.3	snowing	
Igov	29.45	748.1	30.10	764.6	4.3	—15.4	79	w.	11	5		6 cs	0			blank	blank		R. I. Ssaweljew, Engin'r.
Libau	29.86	758.5	29.89	759.1	37.6	3.1	95	w.	7	3			2			0.217	5.5		E. Quass.
Lugan	29.84	757.9	30.06	763.6	12.2	—11.0	76	wsw.	34	15			10			0.008	0.2	light clouds	Meteorological Obs'y.
Moscow	29.43	747.4	29.96	761.0	3.7	—15.7	77	ne.	7	3			10 s			0	0		Meteorological Obs'y.
Nertschinsk	27.71	708.8	30.58	776.6	—17.9	—27.7	85	calm	0	0			0			0	0		

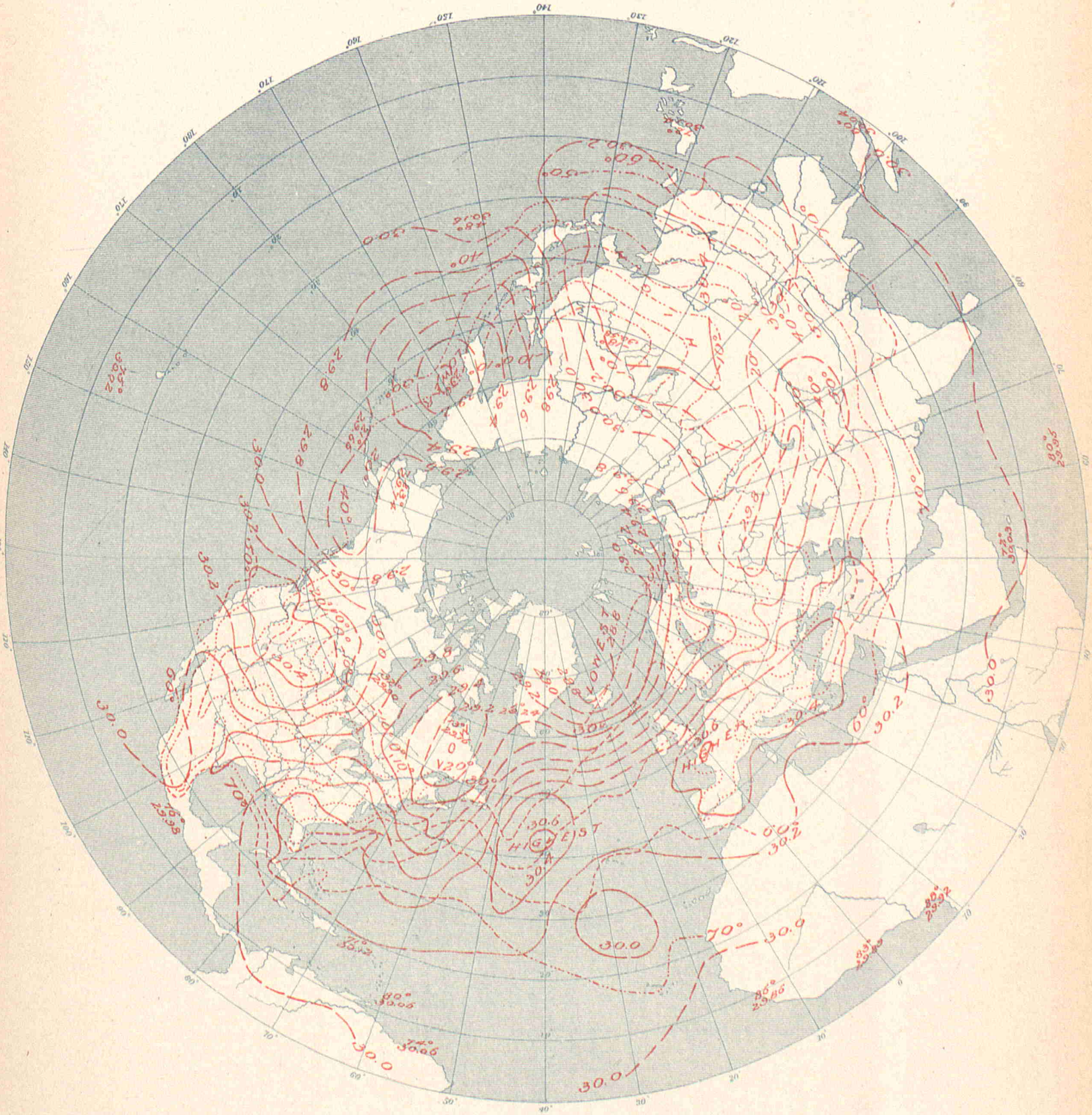
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	30.26	768.7	30.34	770 5	18.5	— 7.5	72	sw.	13	6	.....	0	0	.....	.....	0.024	0.6	.....	Capt. Kurdakow.
Nikolaiewsk-on-the-Amoor.	29.65	753.1	29.74	755.3	—12.6	—24.8	65	w.	2	1	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.37	771.5	30.52	775.1	26.2	— 3.2	74	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Physical Observatory
Petro-Alexandrovsk	29.73	756.5	30.16	766.0	25.2	— 3.8	87	w.	1.1	0.5	.....	.....	10 n	.....	.....	.....	.....	.....	
Petrozavodsk	29.67	753.5	29.88	759.0	3.9	—15.6	81	sse.	7	3	.....	0	5 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.41	747.0	29.92	760.0	35.1	1.7	96	w.	34	15	.....	.....	10 n	.....	.....	0.177	4.5	raining.	
Poti	30.33	770.4	30.36	771.2	36.0	2.2	80	nw.	16	7	.....	.....	10 n	.....	.....	0.441	11.2	snowing	
St. Petersburg	29.75	755.7	29.78	756.3	13.5	—10.3	84	se.	13	6	.....	.....	10 n	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.63	701.9	30.23	767.8	31.5	— 0.3	86	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	snowing	
Semipalatinsk	29 58	751.4	30.32	770.2	0.5	—17.5	78	e	9	4	.....	.....	4	.....	.....	0	0	.....	Major Lasarew
Sevastopol	30.17	766.4	30.40	772.2	32.7	0.4	70	w.	20	9	.....	.....	9 n	.....	.....	0.067	1.7	.....	
Starol Bykhov	29.29	743.9	29.89	759.1	12.0	—11.1	89	se.	11	5	.....	.....	10	.....	.....	.....	.....	snowing	
Tashkend, Laboratory	28.22	716 7	29.95	760.7	35.4	1.9	91	sw.	13	6	.....	.....	10 n	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	28.71	729.2	30.20	767.1	33.4	0.8	42	nw.	38	17	.....	0	6 k	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.17	690.2	29.78	756 4	26.8	— 2.9	75	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	
Viatka	29.15	740 4	29.82	757.4	16.3	— 8.7	96	w.	7	3	.....	.....	10	.....	.....	0	0	.....	
Vladivostock	30.34	770.5	30.40	772.2	0.5	—17.5	60	n.	9	4	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.69	754.0	30.13	765 2	37.4	3.0	98	w.	20	9	.....	.....	10	.....	.....	0.102	2.6	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.70	755.9	30.08	763.9	9.7	—12.4	87	sw.	4	2	.....	.....	0	.....	.....	0	0	foggy	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.30	744.2	29.90	759.4	5.4	—14.8	64	calm	0	0	.....	.....	9 n	.....	nw.	inap.	inap.	cloudy	Prof. S. Fadeieff.
Spanish.																			
Barcelona, Met. Obs'y	30.33	770.4	30.45	773 3	58.1	14.5	65	ne.	.....	.....	.....	.....	.....	.....	.....	0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.41	772.3	30.47	773.8	51.4	10.8	79	se.	1.8	0.8	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.47	697.8	30.54	775.6	47.1	8.4	63	ne.	3.8	1.7	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.23	717.0	30.52	775 3	50.2	10.1	60	se.	5.1	2.3	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.30	769.7	30.43	772 8	52.5	11.4	77	ssw.	0.7	0.3	.....	3	6	wnw	.....	0	0	almost cov'd	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.41	747.1	30.30	769 7	63.3	17.4	31	se.	1.3	0.6	.....	.....	0	.....	.....	0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.13	765.2	30.20	767.0	57.0	13.9	86	se.	0.9	0.4	.....	0	s	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.08	764.1	30.14	765.5	71.9	22.2	72	ne.	6.6	3.0	.....	1 ck	1 ks	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.22	767.4	30.32	770.0	59.2	15.1	74	e.	34.7	15.5	.....	0	1	.....	e.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.03	762 7	30.12	765 0	70.5	21.4	94	calm	0	0	.....	2 s	4 k	sw.	sw.	0.157	4.0	.....	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.42	747.3	29.46	748.3	29.1	— 1.6	96	s.	.....	.....	4	.....	10	.....	.....	0.339	8.6	.....	
Umea	29.49	749.0	29.54	750.3	15.8	— 9.0	88	calm	.....	.....	0	.....	7	.....	.....	0	0	.....	
Hernosand	29.53	750.1	29.58	751 4	23.4	— 4.8	90	calm	.....	.....	0	.....	0	.....	.....	0.157	4.0	.....	
Stockholm	29.58	751.4	29.76	755.9	34.2	1.2	92	w.	.....	.....	2	.....	0	.....	.....	0.228	5.8	.....	
Wisby	29.81	757.1	29.87	758.6	38.5	3 6	93	w.	.....	.....	4	.....	0	.....	.....	0.413	10.5	.....	
Sub-series.																			
Upsala	29.64	752.9	29.73	755.1	29.7	— 1.3	96	wsw.	10.1	4.5	.....	.....	2	.....	wnw.	0.016	0.4	.....	H. H. Hildebrandesson
Swiss.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.50	774 8	44.6	7.0	55	ne.	0	0	.....	.....	2	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.47	773.8	60.3	15.7	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.24	768.1	59.7	15.4	88	sw.	.....	.....	2	.....	10 n	.....	sw	0.06	1.5	.....	F. Nimr, B. A., Dir.
United States.																			
Albany, New York	29.74	755.4	29.82	757.4	29	— 1.7	54	w.	9	4.0	.....	.....	10 s	.....	nw.	0.11	2.8	cloudy	J. O. Barnes.
Alpena, Michigan	29.10	739.1	29.81	757.2	17.3	— 8.2	83	sw.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy.	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.84	630.9	29.96	761.0	33 0	0.6	74	ne.	28	12.5	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.48	698.0	30.52	775.2	12.0	—11.1	83	nw.	20	8.9	.....	0	0	.....	.....	0	0	clear	F. Newman.
Atlanta, Georgia	28.98	736.1	30.21	767.3	26.0	— 3.3	88	sw.	3	1.3	.....	0	sk	.....	.....	0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.02	762.5	30.03	762.7	23.0	— 5.0	73	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
Augusta, Georgia	30.08	764.0	30.28	769.1	27	— 2.8	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. J. Evans.
Baltimore, Maryland	30.10	764.5	30.15	765.8	22 4	— 5.3	53	w.	4	1.8	.....	.....	sk.	.....	.....	0.07	1.8	clear	Geo W Feiger.
Barnegat City, New Jersey	30.02	762.5	30.04	763 0	23.0	— 5.0	80	w.	20	8.9	.....	0	0	.....	.....	0	0	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.63	727.2	30.37	771.4	8.0	—13.3	80	nw.	22	9.8	.....	3 c	2 s	nw.	nw.	inap.	inap.	fair	A. Pritchard.
Benton, Fort, Montana	27.65	702.3	30.63	778.0	4.5	—15.3	49	calm	0	0	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	Thomas Morgan.
Bismarck, Dakota	28.38	720.8	30.38	771 6	1	—17.2	100	nw.	16	7.2	.....	.....	10 s	.....	nw.	0.07	1.8	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.82	757 4	29.85	758.2	28.0	— 2.2	77	w.	34	15.2	.....	0	0	.....	.....	0	0	clear	J. T. Eiker.
Boise City, Idaho	27.61	701.3	30.54	775 7	30	— 1.1	85	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	James Kenealy.
Boston, Massachusetts	29.52	749.8	29.69	754.1	26.0	— 3.3	64	w.	18	8.0	.....	0	0	.....	.....	0.09	2.3	clear	O. B. Cole.
Brownsville, Texas	29.73	755.1	29.79	756.7	60.2	15.7	93	s.	18	8.0	.....	0	3 s	.....	.....	0	0	clear	John McGlone.
Buffalo, New York	29.20	741.7	29.99	761.7	14	—10.0	94	sw.	22	9.8	.....	.....	10 n	.....	sw.	0.52	13.2	light snow	Wm. Finn.
Buford, Fort, Dakota	28.30	718 8	30.53	775 4	— 1	—18.3	87	nw.	27	12.1	.....	4 cs	0	nw.	.....	0.05	1.3	fair	A. Schneider.
Cairo, Illinois	29.48	748.8	29.90	759.4	37.8	3.2	84	s.	12	5.4	.....	.....	10 s	.....	s.	0	0	threatening.	W. H. Ray.
Canby, Fort, Washington Ter	30.23	767.8	30.43	772.9	39.0	3.9	82	se.	16	7.2	.....	0	0	.....	.....	0 03	0.8	clear	J. H. Young.
Cape Henry, Virginia	30.16	766.1	30.18	766.6	24.0	— 4.4	73	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.06	763.5	30.09	764.3	25.0	— 3.9	64	w.	36	16.1	.....	0	0	.....	.....	0	0	clear	W. E. Smith.
Cape Mendocino, California	29.62	752.3	30.32	770.1	43	6.1	74	nw.	9	4.0	.....	0	6 s	.....	.....	0	0	fair	A. P. Leavitt.
Cedar Keys, Florida	30.27	708.8	30.29	769.4	43.0	6.1	96	e.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	G. W. Davis.
Charleston, S. Carolina	30.19	766.8	30.25	768.3	32.5	0.3	88	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.16	766.1	25.0	— 3.9	80	sw.	2	0.9	.....	.....	10 s	.....	w.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.34	745.2	30.20	767.1	25.0	— 3.9	73	ne.	3	1.3	.....	.....	10s; hz	.....	sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.04	610.6	30.31	769.9	12.2	—11.0	83	n.	13	5.8	.....	0	0	.....	.....	0.01	0.3	clear	E. McGovern.
Chicago, Illinois	28.98	736.1	29.73	755.1	28.0	— 2.2	48	s.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.13	765.3	30.15	765.8	24.5	— 4.2	73	nw.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	C. F. Dickens.
Cincinnati, Ohio	29.29	744.0	29.98	761.5	22 0	— 5.6	89	se.	6	2.7	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	L. Dunne.
Cleveland, Ohio	29.17	740.9	29.95	760 7	12.0	—11.1	80	s.	12	5.4	.....	0	0	.....	.....	0.02	0.5	clear	W. Line.
Columbus, Ohio	29.07	738.4	29.97	761.2	17.4	— 8.1	80	se.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	F. T. Williams.
Concho, Fort, Texas	27 73	704.3	29.75	755.6	47 0	8.3	52	nw.	6	2.7	.....	0	5 s	.....	.....	0	0	fair	C. E. King.
Custer, Fort, Montana	27.18	690 4	30.56	776.2	19	— 7.2	84	n.	6	2.7	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	W. J. Daily.
Davenport, Iowa	28.98	736 1	29.69	754.1	27	— 2.8	74	e.	4	1.8	.....	8 cs	hz.	.....	.....	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.07	636.8	30.05	763.3	38.7	3.7	64	sw.	4	1.8	.....	0	7 s	.....	.....	0	0	fair	J. Williams.
Dayton, Washington T'y	28.77	730.7	30.58	776.7	29.9	— 1.2	82	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. S. Blandford.
Deadwood, Dakota	25.49	647.4	30.44	773.2	16.2	— 8.8	87	sw.	5	2.2	.....	.....	10 n	.....	.....	0.11	2.8	light snow	G. Kingsbury.
Delaware Breakwater, Del	30.10	764.5	30.12	765 0	23.4	— 4.8	69	sw.	14	6.3	.....	hz.	0	.....	.....	0	0	clear	G. A. Martin.
Denver, Colorado	24.80	629.9	30.32	770.1	25.3	— 3.7	79	n.	4	1.8	.....	0	2 s	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28 87	733.3	29.84	757.9	16	— 8.9	67	n.	14	6.3	.....	.....	10 s	.....	n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.16	740 7	29.92	760.0	20.0	— 6.7	70	sw.	4	1.8	.....	0	0	.....	.....	0.03	0.8	clear	N. B. Conger.
Dodge City, Kansas	27.36	694.9	30.11	764.8	28	— 2.2	77	nw.	30	13.4	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Dubuque, Iowa	28.96	735.6	29.73	755.1	16	— 8.9	53	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.09	738.9	29.90	759 4	16	— 8.9	83	n.	3	1.3	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	E. R. Brace.
Eastport, Maine	29.32	744.7	29.39	746.5	30.0	— 1.1	78	sw.	16	7.2	.....	.....	10 s	.....	sw.	1.07	27.2	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27 09	688 1	30.02	762.5	35.0	1.7	72	n.	33	14.8	.....	0	6 s	.....	.....	0	0	fair	J. C. Rickli.
El Paso, Texas	26.07	662.2	29.95	760.7	41.3	5.2	36	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.23	742.4	30.00	762.0	15.0	— 9.4	74	s	8	3.6	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	C. A. Shaw.
Escanaba, Michigan	29.07	738.4	29.79	756.7	6.0	—14.4	76	s.	1	0.4	.....	10 cs	0	s.	.....	0	0	cloudy	L. M. Pindell.
Fort Smith, Arkansas	29.26	743 2	29.76	755.9	39.2	4.0	73	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Campbell.
Galveston, Texas	29.84	757.9	29.88	758.9	57.8	14.3	81	s.	8	3.6	.....	0	8 s	.....	s.	0	0	cloudy	E. O'C. Macnemney
Grand Haven, Michigan	29.09	738.9	29.80	756.9	19.0	— 7.2	84	s.	3	1.3	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.03	635.8	29.93	760.2	39.4	4.1	52	nw.	5	2.2	.....	1 ck	0	w.	.....	0	0	clear	Chas. A. Read.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.20	767.1	30.20	767.1	33.0	0.6	78	nw.	15	6.7	.....	3 c	0	sw.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	26.15	664.2	30.53	775.4	.....	.....	.....	nw.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.69	728 7	30.23	767.8	8.8	—12.9	81	nw.	21	9.4	.....	0	0	.....	.....	0.01	0.3	clear	S. W. Glenn.
Indianapolis, Indiana	29.01	736.8	29.85	758.2	23.4	— 4.8	82	s.	6	2.7	.....	8 ck	0	w.	.....	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.78	756.4	29.81	757.2	60.0	15.6	87	s.	16	7.2	.....	0	8 ks	.....	s.	0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.26	768.6	30.31	769.9	34.5	1.4	83	sw.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	28.95	735.3	29.65	753.1	29 0	— 1.7	84	sw.	7	3.1	.....	hz.	0	.....	.....	0	0	dense haze	F. Z. Gosewisch.
Key West, Florida	30.18	766.6	30.20	767.1	59	15.0	72	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.20	767.1	30.22	767.6	28.0	— 2.2	78	w.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	Wesley Blake.
Knoxville, Tennessee	29.12	739.6	30.20	767.1	10.3	—12.1	94	ne.	4	1.8	.....	6ck;0s	0	w.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	28.97	735.8	29.81	757.2	15	— 9.4	83	n.	8	3.6	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	S. C. Emery.
Leavenworth, Kansas	28.87	733 3	29.83	757.7	35	1.7	69	n.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.76	755.9	30.63	778.0	30.6	— 0.8	82	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.49	749.0	29.82	757.4	44.0	6.7	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.68	753 9	30.08	764.0	44.0	6.7	93	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.32	744.7	29.92	760.0	34.0	1.1	78	se.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.39	746.5	30.11	764.8	21.0	— 6.1	70	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.07	738.4	29.77	756.1	19.0	— 7.2	84	nw.	2	0.9	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.21	767.3	30.22	767.6	30.0	— 1.1	72	w	8	3.6	.....	6 ck	0	w.	.....	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.67	652.0	30.44	773.2	21.7	— 5.7	48	nw.	17	7.6	.....	0	0	.....	.....	0.17	4.3	clear	F. Burke.
Marquette, Michigan	28.99	730.3	29.77	756.1	17.0	— 8.3	67	nw.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.56	750.8	29.92	760.0	40	4.4	86	se.	14	6.3	.....	.....	10 s	.....	se.	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	28.93	734.8	29.73	755.1	20.0	— 6.7	84	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	S. W. Rhode.
Mobile, Alabama	30.08	764.0	30.12	765.0	37	2.8	82	n.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.97	761.2	30.21	767.3	29.5	— 1.4	77	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.08	738.6	30.19	766.8	— 2	—18.9	100	n.	30	13.4	.....	.....	10 s	.....	n.	0.07	1.8	cloudy	H. Bessant.
Mt. Washington, N. H	22.91	581.9	29.54	750.3	— 7.0	—21.7	67	nw.	90	40.2	.....	.....	fg.	.....	nw.	0.35	8.9	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.38	746.2	30.00	762.0	30.5	2.5	79	se.	8	3.6	.....	.....	10 ks	.....	sw.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.76	755.9	29.88	758.9	22.8	— 5.1	56	w.	11	4.9	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Sherman.
New London, Connecticut	29.89	759.2	29.94	760.5	25.0	— 3.9	68	w	11	4.9	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.02	762.5	51.5	10.8	86	se.	6	2.7	.....	.....	10 ks	.....	se.	0	0	cloudy	M. Herman.
New York, New York	29.80	756.9	29.98	761.5	22.3	— 5.4	83	w.	8	3.6	.....	0	4 s	.....	.....	inap.	inap.	fair	H. J. Penrod.
Norfolk, Virginia	30.14	765.5	30.17	766 3	28.1	— 2.3	64	sw.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.15	689.0	30.27	768.8	18.6	— 7.4	76	nw.	23	10.3	.....	0	0	.....	.....	0	0	clear	Mc Lean.
Olympia, Washington Ty	30.48	774.2	30.52	775.2	36.0	2.2	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. Dascomb.
Omaha, Nebraska	28.74	730.0	30.01	762.2	16.8	— 8.4	74	nw.	28	12.5	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak
Oswego, New York	29.53	750.0	29.88	758.9	26.0	— 3.3	70	w.	24	10.7	.....	.....	10 s	.....	w.	0.76	19.3	cloudy	J. G. Linsley.
Palestine, Texas	29.26	743.2	29.84	757.9	54.0	12.2	86	s	10	4.5	.....	0	4 s	.....	se.	0	0	fair	P. T. Jenkins.
Pensacola, Florida	30.13	765.3	30.16	766.1	38.3	3.5	70	ne.	14	6.3	.....	.....	10 s	.....	nw.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.95	760.7	30.06	763.5	24	— 4.4	61	sw.	12	5.4	.....	0	hz.	.....	.....	0.01	0.3	clear	T. F. Townsend.
Pike's Peak, Colorado	17.46	443.5	30.16	766.1	—13.0	—25.0	100	n.	7	3.1	.....	.....	fg.	.....	nw.	0.03	0.8	dense fog	H. Hall.
Pittsburg, Pennsylvania	29.20	741.7	30.05	763.3	19.0	— 7.2	84	s.	6	2.7	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	— 8	—22.2	76	w.	.....	.....	1	0	0	.....	.....	0	0	clear	G. A. Carden.
Port Huron, Michigan	29.12	739.0	29.86	758.4	9.0	—12.8	76	s.	16	7.2	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	29.46	748.3	29.51	749.5	24.9	— 3.9	74	w.	18	8.0	.....	0	2 s	.....	w.	0.14	3.6	clear	W. W. Eichelberger.
Portland, Oregon	30.43	772.9	30.50	774.7	35.0	1.7	100	w.	3	1.3	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	M. L. Hearne.
Prescott, Arizona	24.66	620.4	30.04	763.0	20.3	— 3.2	75	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass	29.65	753.4	29.69	754.1	27.5	— 2.5	63	w.	17	7.6	.....	0	0	.....	.....	0.73	18.5	clear	C. N. Kitchel.
Red Bluff, California	30.04	763.0	30.41	772.4	43	6.1	60	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.61	752.1	29.86	758.4	51.2	10.7	99	se.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y	29.23	742.4	29.94	760.5	16	— 8.9	74	w.	24	10.7	.....	0	5 k	.....	w.	0.58	14.7	fair	E. W. McGann.
Roseburg, Oregon	29.93	760.2	30.50	774.7	35.4	1.9	85	e.	2	0.9	.....	0	9s;k	.....	s.; sw.	0.01	0.3	cloudy	J. J. Nanry.
Sacramento, California	30.18	766.6	30.26	768.6	42.5	5.8	67	nw.	18	8.0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.10	739.1	29.76	755.9	37.5	3.1	75	s.	15	6.7	.....	0	sk.	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.70	754.4	29.74	755.4	—23	—30.6	100	w.	.....	.....	1	0	0	.....	.....	0	0	clear	Fred. H. Clarke
St. Paul, Minnesota	28.93	734.8	29 87	758.7	16.0	— 8.9	100	ne.	10	4.5	.....	.....	10 n	.....	ne.	0.14	3.6	light snow	P. F Lyons.
St. Vincent, Minnesota	29.28	743.7	30.26	768.0	— 8	—22.2	85	nw.	23	10.3	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.87	657.1	30.44	773 2	27.2	— 2.7	54	nw.	5	2.2	.....	3 c	0	sw.	.....	0.07	1.8	clear	J. Craig.
San Diego, California	29.96	761.0	30.03	762.7	49.0	9.4	93	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.19	741.4	29.91	759.7	21	— 6.1	70	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.98	761.5	30.01	762.3	23.0	— 5.0	61	w.	28	12.5	.....	0	0	.....	.....	0	0	clear	V. P. Chappel.
Sanford, Florida	30.24	768.1	30.29	769.4	32.0	0.0	95	nw.	1	0.4	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	J. B. Marbury
San Francisco, California	30.17	766.3	30.24	768.1	49.0	9.4	71	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.14	765.5	30.24	768.1	32	0.0	78	w.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.69	677.9	30.55	776.0	4	—15.6	76	sw.	5	2.2	.....	0	0	.....	.....	0.07	1.8	clear	A. L. Mathews.
Shreveport, Louisiana	29.56	750.8	29 81	757.2	46.0	7.8	93	se	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	29.38	740.2	29.46	748.3	41.5	5.3	78	e.	18	8.0	.....	.....	10 n	.....	e.	0.50	12.7	light rain	F. W. Fickett.
Smithville North Carolina	30.20	767.1	30.24	768.1	30.0	— 1.1	92	w.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.25	717.5	30.39	771.9	18	— 7.8	70	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.00	736.6	29.73	755.1	32.2	0.1	76	s.	12	5.4	.....	4 c	3 s	w.	w.	0	0	fair	T. B. Jennings.
Stockton, Fort, Texas	26.78	680.2	29.92	760.0	52.0	11.1	33	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	30.32	770.1	.....	.....	41.2	5.1	87	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.09	688.1	29.92	760 0	34.2	1.2	85	calm	.....	.....	0	.....	10 s	.....	.....	0	0	cloudy	R. C. Lord.
Toledo, Ohio	29.13	739 9	29.87	758.7	19.2	— 7.1	88	s.	5	2.2	.....	.....	10 ks	.....	w.	inap.	inap.	cloudy	A. Buell.
Unalaska, Alaska	29.64	752.8	29.66	753.4	21	— 6.1	84	nw.	32	14.3	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	Samuel Applegate.
Vicksburg, Mississippi	29.70	754.4	29.97	761.2	46.3	7.9	85	se.	4	1.8	.....	0	9 s	.....	sw.	0	0	cloudy	C. Dill.
Washington, D. C	30.62	702.5	30.14	765.5	18.2	— 7.7	80	sw.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	T. B. Harrison.
West Las Animas, Colorado	26.09	662.7	30.22	767.6	27.5	— 2.5	72	nw.	13	5.8	.....	0	3 s	.....	.....	0	0	clear	F. H. Brandenburg.
Wilmington, N Carolina	30.19	766.8	30.25	768.3	31.0	— 0.6	78	w.	1	0.4	.....	2 ck	0	.....	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	28.77	730 7	30.19	766.8	11.7	—11.3	82	n.	28	12.5	.....	5 c	0	n.	.....	0	0	fair	E. H. Thompson.
Yuma, Arizona	29.85	758.2	30.00	762 0	55.0	12.8	14	n.	20	8.9	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	28.96	735.6	28.98	736.1	27.9	— 2.3	85	sw.	28	12.5	.....	0	7 k	.....	sw.	inap.	inap.	fair	George Cheruick.
Bluefields, Nicaragua, U. A.	.....	.....	.....	.....	71	21.7	.....	nw.	.....	.....	3	0	9 n	.....	n.	0.54	13 7	cloudy	W. H. Jackson.
Bogota, U. S. C	22.00	558.9	.....	.....	50.0	10.0	93	calm	0	0	.....	0	1 k	.....	se.	0.350	8.9	.....	Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	29.01	736.8	29.16	740 7	13	—10.6	100	e.	41	18.3	.....	.....	10 n	.....	se.	blank	blank	light snow	L. M. Turner.
Kingston, Jamaica, W. I	.....	.....	30.12	765.0	70.9	21.6	93	n	1	0.4	.....	.....	10 n	.....	.....	0.40	10.2	light rain	Robert Johnstone.
Paramaribo, S. A	30.06	763.5	30.06	763.5	74	23.3	91	e.	.....	.....	2	3 c	4 k	e.	.....	0	0	.....	Dr. C. J. Herring.
Puerto Berrio, U. S. C	29.44	747.8	30.00	762.0	77	25.0	89	n.	.....	.....	1	.....	10 ks	.....	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	73	22.8	86	ne	.....	.....	2	.....	.....	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A	29.82	757.4	29.90	759.4	—32.0	—35.6	.....	w.	10	4.5	.....	1 c	1 c	w.	w.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.97	761.2	29.98	761.4	79.5	26.4	88	n.	5.6	2.5	.....	0	9 k	.....	n.	.....	.....	fair	P. Fasiani.
Nuos, Bay of Panama	29.91	759.6	29.97	761.3	73.8	23.2	93	n.	.....	.....	3	0	1 ck	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 42° 42′, W. 64° 11′ †	29.65	753.1				wsw.			6		8		w.	3 h'r	3 h'r	h'vy	wsw.	overcast.
S. S. Alvo, N. 24° 50′, W. 74° 18′ *	30.31	769.9	68	20.0		ne.			6		5	nne.	ne.	0	0	r'gh	cross	fair.
S. S. Alleghany, Baltimore, Md.†	30.17	766.3	18	— 7.8		calm			0		0			0	0			hazy.
Bg. Abbie Clifford. N. 36° 54′ W. 71° 14′*†	30.23	767.8	51	10.6		nw.			7		2		nw.	0	0	r'gh	nw.	clear.
S. S. Alps, N. 18° 51′, W. 75° 25′			81	27.2		ne.			6		6		ne.	rain	rain	chop	ne.	
S. S. Circassian, N. 51° 25′ W. 36° 45′	30.38	771.6	39	3.9	71	w.			4		8		w.			6	wnw.	showery.
S. S. Cienfuegos, N. 34° 05′, W. 75° 21′			51	10.6		wnw.			5		7		nne.	0	0	h'vy	nne.	fair.
S. S. Caracas, N. 21° 56′, W. 68° 40′* †	30.21	767.3	77	25.0	90	n.			4		10		n.	½h'r	½hr	mod.	e.	rainy.
S. S. City of Augusta, Savannah, Ga			62	16.7		ssw.			4		7		sw.	0	0			fair.
Bk. Diamant, N. 46° 24′, W. 56° 52′	29.94	760.5	59.2	15.1	93	sw			9		10		sw.					
S. S. Dorian, N. 32° 49′, W. 30° 18′	29.93	760.2	62	16.7		nnw.			3		10		nw.	0	0	long	nw.	overcast.
S. S. Denmark, Gravesend, Eng			50	10.0	87	s.			6		7		sse.	0	0			fair.
S. S. Daniel Steinmann, N. 50° 38′, W. 0° 40′						wsw.			3		4		w.	0	0	mod	w.	fair.
S. S. France, N. 48° 18′, W. 31° 20′ *†	30.35	770.9				wnw.			2		7		wnw.	0	0	r'gh	nw.	fair
Bg. Gipsey Queen, Matanzas, Cuba, W. I *†	30.10	764.5				ese.			3					0	0			fair.
Bk. Ibis, N. 38° 55′, W. 72° 00			47	8.3		sw.			8		9		sw.	6 h'r	6 h'r	h'vy	se.	gale.
Schr. Jas Slater, N. 33° 30′. W. 71° 55′*†	30.25	768.3	61	16.1		wnw.			6		8		wnw.	½ h'r	½ h'r	rg'h	w.	
Bg. Lilian, N. 39° 30′, W. 73° 35′ †	30.01	762.2	27	— 2.8		w.			6		0			½ h'r	½ h'r	mod.		clear.
S. S. Lord Gough, N. 50° 37′, W. 29° 11′ *	30.27	768.8	46	7.8		w.			4		8		w.	0	0	mod	w.	cloudy.
Bg. L. F. Munson, N. 40° 29′, W. 69° 50′*†	29.84	757.9	37	2.8		wnw.			9		9		wnw.	shr's	shr's	r'gh	cross	
S. S. Mentmore, N. 41° 36′, W. 59° 53′						sw.			9		10			12 h'r	12 h'r	h'vy	s.	overcast.
Schr. Maggie Abbott, N. 21° 00′, W. 72° 50′ *†	30.15	765.8				nne.			6		4		ne.	0	0	short	ne.	clear.
Bk. Matthias, N. 32° 50′, W. 55° 40′*†	30.29	769.4	69.0	20.6		sse.			6		4		sse.	0	0	2	ese.	hazy.
S. S. New York, N. 38° 06′ W. 74° 30′						w.			6		3		nw.			high	ssw.	clear.
S. S. Nova Scotian, N. 48° 43′, W. 47° 34′	30.28	769.1	36	2.2		s.			4		10		wsw.			mod.	sw.	cloudy.
S. S. Nederland, N. 49° 19′, W. 32° 52′			43	6.1	83	wnw.			6		8		w.	3 h'r	3 h'r	high	w.	overcast.
S S. Nurnberg, N. 53° 51′ E. 7° 00′	30.22	767.6	42.8	6.0		sw.			5		8		*w.	0	0	mod.	sw.	overcast
S. S. Olbers, N. 36° 44′, W. 71° 14′	30.16	766.1	45	7.2	84	nw.			6		6		w.	6 h'r	6 h'r	high	var.	squally.
S. S. Oregon, Liverpool, Eng	30.17	766.3	51	10.6		sw.			6		3							fine
S. S. Pavonia, N. 49° 32′, W. 26° 06′	30.39	771.9	50	10.0	78	nnw.			4		8		n.	0	0	long	nw.	cloudy.
S. S. Picqua, N. 34° 35′, W. 19° 22′*†	30.08	764.0	63	17.2	89	ese.			3		10			0	0	long	ssw.	overcast.
S. S. Rhynland. N. 40° —′, W. 68° 30′	29.73	755.1	40	4.4	40	w.			5		1		w	0	0	r'gh	nw.	clear.
S. S. Romano, N. 45° 28′, W. 34° 01′	30.43	772.9	50	10.0		wnw.			1		6		wnw.	0	0	sm'h		fair.
S. S. Rosse, N. 51° 36′, W. 8° 24	30.24	768.1	58	14.4		wsw.			5		4		wsw.	0	0	sm'h		hazy.
Bk. Roslna, N. 26° 49′, W. 60° 21′	30.23	767.8	77	25.0		se.			1		0			0	0	mod.	sw.	clear.
S. S. Salier, N. 49° 55′ W. 8° 32′ *	30.35	770.9				ssw.			4		9		sw.	0	0	light	var.	cloudy.
S. S. St. Albans, N. 26° —′, W. 75° —′*	30.28	769.1	74	23.3		ne.			3		2		n.	0	0	long	nw.	misty.
Schr. Viola Reppard, N. 41° 09′, W. 71° 00′						wnw.			7		5		wnw.	0	0	high	wnw.	fair.
S. S. Valencia, N. 18° 21′. W. 68° 00′ †	30.13	765.3	79	26.1	78	ne.			4		2		e.	0	0	light	ene.	clear.
S. S. Westphalia, N. 53° 58′, E. 7° 46′	30.14	765.5	44	6.7	91	wsw.			4		10		w.	0	0	sm'h	wsw.	hazy.
S. S. Andes, Port au Prince, Hayti, W I *†	30.15	765.8				var.								0	0			fine.
Bk. Ariadne, N. 30° 43′, W. 71° 20′	30.28	769.1	62	16.7		nw.			5		3		wnw.	0	0	mod	w.	clear.
Schr. Annie R. Lewis, N. 19° 38′, W. 74° 44′ †	30.22	767.6	78	25.6		ne.			5		1		ne	1 h'r	1 h'r	r'gh	ne.	clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.15	765.8				se.			2		2		se.	0	0	r'gh	nne.	clear.
U. S. S. Alliance, Port au Prince, Hayti, W. I	30.06	763.5	75	23.9	85	ene.			2		2		calm	0	0	sm'h		clear.
S. S. Britannic, N. 46° 36′ N. 37° 20′ *†	30.52	775.2	47	8.3		ne.			3		5		ne.	0	0	high	nw.	d. clouds.
S. S. British Princess, N. 42° 20′ W. 48° 45′†	30.42	772.7	41	5.0		s.			4	9 cs		sw.		9	0	sm'h		overcast.
S. S. Chalmette, N 24° 23′, W. 81° 45′ †	30.19	766.8	63	17.2		ne.			5		3		ne.	0	0	sm'h		clear.
Schr. Ellen Crusoe, N. 21° 31′ W. 71° 17′						ene.							e.	0	0			cloudy
S. S. Gallia, N. 40° 21′, W. 69° 24′	29.89	759.2	43	6.1		w.			7		10		sw.	snow	snow	mod.	sw.	snowy.
S. S. Germanic, N. 47° 00′, W. 38° 15′			45	7.2	100	nnw.			2		7		w.	0	0	long	n.	fair.
S. S. Grecian, N. 22° 17′, W. 21° 36′	30.01	762.2	70	21.1	79	s.			1		0			0	0	long	ne.	clear.
S. S. Lord Olive, N. 50° 16′, W. 27° 25′						wnw.			4		9		wnw.	0	0	long	w.	cloudy
S. S. Muriel, N. 28° 10′, W. 66° 30′	30.19	766.8	72	22.2		nw.			3		0			rain	rain	rg'h	sw.	clear.
S. S. Ontario, Liverpool Bay, Eng			50.5	10.3		ssw.			7		4		sw.	3 h'r	3 h'r	r'gh	con.	fair.
S. S. Orinoco, New York, N. Y†	29.94	760.5	28	— 2.2		wsw.			3		0			0	0			clear.
Bk. Saga, N. 23° 07′, W. 44° 15′ *†	30.16	766.1	73	22.8		nne.			3–6		7		n.	1¾ hr	1¾ hr	r'gh	var.	fair.
S. Storm King, N. 32° 36′, W. 36° 31′*†	30.10	764.5				n.			6		5		n.	1 h'r	1 h'r	high	n.	fair.
S. S. State of Nebraska, N. 48° 17′, W. 44° 43′ *†	30.52	775.2	37	2.8		ssw.			3		2			0	0	sm'h		blue sky.
S. S. Samaria, N. 45° 00′, W. 42° 45′	30.57	776.5	43	6.1		ene.			2		2		e	0	0	long	naw	clear.
S. S. Salerno, Hull, England †	30.20	767.1	48	8.9		w.			2		5		w.	0	0			fair.
S. S. St. Laurent, N. 49° 50′, W. 24° 30′	30.32	770.1	46.4	8.		nw.			3		9		nw.	hail	hail	large	nw.	cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W. I*	30.12	765.0	75	23.9	76	ene.			1		8		ene.			sm'h		fair.
U. S. S. Tennessee, Port au Prince, Hayti, W. I	30.11	764.8	75	23.9	76	e.	6	2.7			2		e.	0	0			hazy.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I	30.02	762.5	75	23.9	81	ne.			1		2							fair.
S. S. Weser, N. 49° 15′ W. 15° 14′	30.32	770.1	53.6	12.0		ssw.			3		10		sw.	7 h'r	7 h'r	long	w.	cloudy
S. S. Wyoming, N. 41° 29′, W. 65° 25′	29.74	755.4	37	2.8		wsw.			6		8		w.	0	0	h'vy	ssw.	cloudy.
S. S. Westernland, N. 46° 26′, W. 39° 26′	30.56	776.2	48	8.9		calm			0		10			0	0	con.		overcast.
U. S. Navy Yard, Portsmouth, N. H			26	— 3.3	75	nw.	24	10.7			0			0.4	10.			clear.
U. S. S. Kearsarge, Genoa, Italy	30.44	773.2	56	13.3	45	ne.			2		2							fair.
U. S. S. Lancaster, Villefranche, France	30.41	772.4	61	10.1	71	s.			0–1		0			0	0	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	29.76	755.9	25	— 3.9	87	sw.			5		0					mod.	sw.	clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.41	772.4	54	12.2	61	ene.			2		0					sm'h		clear.
U. S. S. Shenandoah, N. 30° 48′, W. 33° 56′ *	29.99	761.7	60	15.6	94	nne.			6		10		nne.			mod.	ne.	cloudy.
U. S. S. Trenton, Marseilles, France	30.52	775.2	53	11.7	73	calm			0		0					sm'h		clear.
H. M. S. Alexandra, Malta, Mediterranean	30.22	767.6	59	15.0	70	ese.			3		9	ese.						d. clouds
H. M. S. Alecto, N. 5° 05, W. 1° 13′	29.89	759.2	83	28.3		s.			1		4	ssw.				3	ssw.	misty.
H. M. S. Comus, S. 3° 00′, W. 22° 00′	29.96	761.0	79	26.1	86	nne.			2		8	nne.				2	ene.	d. clouds.
H. M. Dockyard, Bermuda, Altantic	30.04	763.0	64	17.8	58	wsw.			6		4	wsw.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.35	770.9	62.5	16.9	72	ssw.			5–7		3							misty.
H. P. M. S. Douro, Fernando Po, W. Africa	29.92	760.0	87.8	31.0	90	nne.			1		0			0	0			blue sky.
S. S. Ohio, N. 52° 00′, W. 7° 40′			50	10.0	100	wsw.			3		3		w.	0	0	mod.	wsw.	clear.
S. S. Pennsylvania, N. 46° 11′, W. 45° 08′			38	3.3	100	s.			4		10		w.	0	0	h'vy	nne.	cloudy.
S. S Polynesian, Liverpool, Eng *†	30.22	767.6	53	11.7		nw.			5		7		nw.	0	0			cloudy.
S. S. Scandinavian, N. 55° 19′, W. 8° 57′	29.92	760.0	47.5	8.6		wsw.			7		9		w.	10 h'r	10 h'r			showery.
S. S. Carroll, N. 42° 40′, W. 69° 14′*†	29.60	751.8	30	— 1.1		w.			6		6		w.			short	w.	fair.
S. S. Wisconsin. N 50° 03′, W. 31° 30′	30.33	770.4	44	6.7		w.			6		5		w.	2 h'r	2 h'r	r'gh	w.	showery.
S. S. Frisia, N. 41° 50′ W. 61° 20′	29.44	747.8	54	12.2		w.			6		3		w.	6 h'r	6 h'r	h'vy	sw.	fair.
S. S. Archimedes, N. 32° 58′, W. 71° 15′	30.20	767.1				wnw.			5		5?		wnw.	0	0	long	wnw.	clear?
S. S. Hevelius, Antwerp, Belgium*†	30.39	771.9	40	4.4		sw.			5		4		sw.	0	0			clear.
S. S. Archimede, N. 36° 42′, W. 16° 30′ †	30.26	768.6	68	20.0		e.			2		7		e.	0	0	sm'h	ese.	cloudy.
S. S. Texas, N. 41° 50′, W. 11° 42′			57	13.9	94	s.			4		0			0	0	sm'h	nw.	clear.
S. S. Erin, London, Eng	30.38	771.6	48	8.9		wsw.			2		4		wsw.	0	0			fine.
S. S. Helvetia, Irish Channel	30.14	765.5	52	11.1	93	s.			4		8		ssw.	0	0	mod.	ssw.	cloudy.
S. S. Habsburg, N. 46° 25′, W. 45° 09′						s.			4		9		sw.	0	0	sm'h	ssw.	cloudy.
S. S. Strassburg, N. 5° 35′, W. 29° 09′	30.02	762.5			60	nne.			4		6		ne.	4 h'r	4 h'r	3	ne.	fair.
S. S. Waesland, N. 49° 48′ W. 20° 00′	30.28	769 1	49	9.4		wnw.			5		10		wnw.	3 h'r	3 h'r	long	irreg.	cloudy.
S. S. W. A. Scholten, N. 49° 51′, W. 18° 35′			47.8	8.8	76	nw.			8		5		wnw.	0	0	5	wnw.	fair.
S. S. Saxon, N. 40° 43′ W. 72° 30′			28	— 2.2		w.			3		5					r'gh	se.	
S. S. Celtic, N. 50° 00′ W. 23° 13′ *†	30.36	771.1				wnw.			4		8		nw.	0	0	mod.	w.	cloudy.
S. S. Marengo, N. 40° 53′, W. 58° 55′ *†	29.78	756.4	61	16.1		ssw.			7		10		ssw.	4 h'r	4 h'r	con.	var.	raining.
Bg. Alcira, N. 33° 16′, W. 69° 50′	30.12	765.0	59	15.0		wnw.			5		10		w;nw	0	0	cross	var.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.32	770.1	60	15.6	55	se.			7		1			0	0			clear.
Bk. Bayonnaise, N. 22° 55′, W. 62° 15′			76.1	24.5		ene.			5		4		ene.	1½ hr	1½ hr	h'vy	ne.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Chas. Stewart, N. 1° 15′, W. 27° 10′	.....	.....	83	28.3	.....	ese.	.....	.....	4	.....	2	.....	se.	0	0	long	n.	clear.
Schr. Clotilde, N. 25° 30′, W. 86° 49′†	30.10	764.5	76	24.4	.....	se.	.....	.....	5	.....	8	.....	se.	0	0	mod.	se.	cloudy.
Bk. Celestina, Cadiz, Spain*†	30.36	771.1	.....	.....	.....	e.	.....	.....	6	.....	0	.....	.....	0	0	.....	.....	clear.
Bkt C. S. Bushnell, N. 36° 11′, W. 3° 00′	30.38	771.6	.....	.....	.....	e.	.....	.....	5	.....	1	.....	se.	0	0	r'gh	ne.	
S. E. J. Spicer, Liverpool, Eng.	30.16	766.1	52	11.1	93	sw.	.....	.....	5	.....	5	.....	wsw.	0	0	.....	.....	fair.
S. E. B. Sutton, N. 29° 40′, W. 44° 00′ *†	30.36	771.1	65	18.3	78	ne.	.....	.....	6	.....	5	.....	ne	rain	rain	h'vy	var.	fair.
S. Hedwig, N. 35° 31′, W. 6° 21′	30.28	769.0	60.8	16.0	87	calm	.....	.....	0	.....	0	.....	.....	0	0	3	ne.	clear.
Bk. Heinrich & Tonio, N. 42° 27′, W. 37° 50′*†	30.60	777.2	51	10.6	79	ne.	.....	.....	3	.....	5	.....	ne.	0	0	mod.	nw.	fair.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.13	765.3	.....	.....	.....	sse.	.....	.....	4	.....	10	.....	s.	0	0	.....	.....	threatening.
S. Henry, N. 40° 16′, W. 51° 41′*	30.14	765.5	58.3	14.6	.....	s.	.....	.....	6	.....	7 k	.....	.....	.....	.....	5	.....	squally.
Bg. John Wesley, Havana, Cuba, W.I.	.....	.....	.....	.....	.....	n.	.....	.....	4	.....	8	.....	n.	2 h'r	2 h'r	.....	.....	cloudy.
Schr. John L. Thomas, Hobbies Cays, C. A.	.....	.....	.....	.....	.....	ne.	.....	.....	6	.....	6	.....	ene.	½ h'r	½ h'r	.....	.....	threatening
Bg. L. & W. Armstrong, N. 21° 32′ W. 56° 54′†	30.18	766.6	.....	.....	.....	ese.	.....	.....	4	.....	1	.....	ese.	0	0	mod.	ese.	fine.
S. S. Laurel, Key West, Fla.	.....	.....	52	11.1	.....	ene.	.....	.....	2–3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Madrid, N. 37° 31′, E. 5° 37′†	30.33	770.4	58	14.4	88	ne.	.....	.....	5	.....	4	.....	ene.	10 h'r	10 h'r	r'gh	nnw.	fair.
S. S. P. de Satrastegui, Havana, Cuba	30.20	767.1	.....	.....	.....	e.	.....	.....	4	.....	3	.....	.....	0	0	.....	.....	clear.
Bk. Rosalie, N. 27° 49′, W. 41° 25	.....	.....	.....	.....	.....	nne.	.....	.....	6	.....	2	.....	nne.	¼ h'r	¼ h'r	high	ne.	clear.
S. Salisbury, N. 35° 06′, W. 8° 02′	.....	.....	62.6	17.0	86	se.	.....	.....	6	.....	5 k	.....	se.	0	0	r'gh	e.	fair.
Bk. Tuck Sing, N. 22° 19′, W. 70° 59′*†	30.18	766.6	.....	.....	.....	ne.	.....	.....	5	.....	2	.....	ene.	0	0	mod.	ene.	fine.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.95	760.7	69	20.6	85	se.	.....	.....	3	.....	10	.....	w.	.....	.....	sm'h	.....	overcast.
U. S. S. Pinta, S. 4° 48′, W. 35° 08′	30.00	762.0	80	26.7	82	se.	.....	.....	2	.....	2	.....	se.	.....	.....	long	ese.	clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.90	759.4	66	18.9	76	ne.	.....	.....	2	.....	6	s.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Boadicea, S. 26° 24′, E. 3° 06′	30.06	763.5	70	21.1	.....	se.	.....	.....	2	.....	7	se.	.....	.....	.....	2	se.	d. clouds.
H. M. S. Opal, Congo River, Guinea	29.97	761.2	81	27.2	87	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tyne, S. 20° 38′, E. 0° 20	30.00	762.0	75	23.9	80	ese.	.....	.....	4	.....	9	se.	.....	.....	.....	3	se.	d. clouds.
S. S. Sirius, Rio de Janeiro, Brazil	30.04	763.0	.....	.....	.....	calm	.....	.....	0	.....	3	.....	s.	0	0	.....	.....	clear.
Bg. Daphne, S. 1° 07′, W. 33° 47′ *†	29.90	759.4	82	27.8	74	e.	.....	.....	3	.....	1	.....	se.	0	0	sm'h	var.	clear.
Bk. Horace Scudder, S. 6° 42′, E. 1° 48′ *†	30.18	766.6	80	26.7	.....	se.	.....	.....	1	.....	3	.....	calm	c	0	light	s.	clear.
Bkt. Levanter, S. 1° 32′, W. 30° 59′*	29.98	761.5	83	28.3	.....	ese.	.....	.....	4	.....	2	.....	ese.	0	0	mod	ese.	fair.
S. Parker M. Whitmore, S. 15° 57′, W. 26° 00′*†	30.05	763.3	79	26.1	.....	e.	.....	.....	5	.....	5	.....	ne.	1 h'r	1 h'r	short	e.	showery
S. St. David, S. 56° 26′, W. 64° 25′ *†	29.90	759.4	54	12.2	87	n.	.....	.....	4	.....	10	.....	n;nw.	light	light	light	n.	rain & fog.
S. David Stewart, Pernambuco, Brazil †	29.84	757.9	89	31.7	.....	ese.	.....	.....	5	.....	2	.....	se.	0	0	.....	.....	
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.16	766.1	28	−2.2	43	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Adams, Sitka, Alaska †	29.46	748.3	42	5.6	90	e.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	raining.
U. S. S. Alert, N. 17° 42′, W. 163° 18′	30.02	762.5	75	23.9	95	w.	.....	.....	4	.....	8	.....	w.	.....	.....	sm'h	.....	cloudy.
U. S. S. Essex, Canton, China	30.29	769.4	66	18.9	54	se.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	fair.
U. S. S. Juniata, Shanghai, China	30.53	775.4	41	5.0	82	calm	.....	.....	0	.....	10	.....	calm	0	0	.....	.....	overcast.
U. S. S. Monocacy, Shanghai, China	30.53	775.4	41	5.0	65	se.	.....	.....	1	.....	10	.....	se.	.....	.....	.....	.....	cloudy.
U. S. S. Ranger, Corintho, Nicaragua	29.98	761.5	77	25.0	69	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear
U. S. S. Richmond, Shanghai, China	30.53	775.4	44	6.7	84	ese.	.....	.....	1	.....	10	.....	.....	0	0	.....	.....	cloudy.
H. M. S. Audacious, Hong Kong, China	30.26	768.6	62	16.7	66	ene.	.....	.....	1	.....	4	ne.	.....	.....	.....	.....	.....	blue sky
H. M. S. Cleopatra, off Amoy, China	30.15	765.8	57	13.9	74	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	blue sky.
H. M. S. Champion, Woosung, China	.....	.....	44	6.7	76	se.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. P. M. S. Tamega, Macao, China	30.32	770.0	61.7	16.5	74	n.	.....	.....	4	.....	8	.....	.....	0	0	.....	.....	overcast.
S. S. Newbern, N. 33° 04′, W. 118° 30′	.....	.....	.....	.....	44	ne.	.....	.....	6	.....	0	.....	.....	0	0	short	sw.	clear.
S. S. Oceanic, N. 33° 05′, E. 150° 08′	30.16	766.1	48	8.9	78	wnw.	.....	.....	6–9	.....	6	.....	wnw.	sh'rs	sh'rs	7	w.	fair.
S. S. Oregon, N. 42° 17′, W. 124° 38′ †	30.51	774.9	48.5	9.2	67	e.	.....	.....	2	.....	0	.....	.....	.....	.....	mod.	wsw.	clear.
S. S. Alameda, San Francisco, Cal	.....	.....	50	10.0	100	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Ancon, Point Conception, Cal†	30.12	765.0	53	11.7	48	nw.	.....	.....	6	.....	0	.....	.....	0	0	mod.	wnw.	clear
S. S. City of Chester, near Cape Mendocino, Cal†	30.35	770.9	51	10.6	65	nw.	.....	.....	6	.....	0	.....	.....	.....	.....	high	nw.	
S. S. Orizaba, N. 37° 00′, W. 119 ? 48′ †	30.24	768.1	55	12.8	81	nnw.	.....	.....	10	.....	0	.....	.....	0	0	long	sw.	clear.
S. S. Queen of the Pacific, San Francisco, Cal. †	30.28	769.1	50	10.0	65	nnw.	.....	.....	3	.....	0	.....	.....	0	0	long	wsw.	clear.
S. S. State of California, Portland, Oregon †	30.53	775.4	35	1.7	90	n.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	foggy.
S. S. City of Pekin, N. 35° 30′, E. 142° 38′	.....	.....	38	3.3	90	nw.	.....	.....	6	.....	10	.....	nw.	.....	.....	r'gh	nw.	snowy.
S. S. Colima, Acapulco, Mexico†	30.00	762.0	72	22.2	95	calm	.....	.....	0	.....	2	.....	calm	0	0	.....	.....	clear.
S. S. Granada, N. 15° 38′, W. 96° 09′†	29.98	761.5	76	24.4	82	ne.	.....	.....	1	.....	2	.....	n.	0	0	light	se.	clear.
S. S. Benalder, N. 2° —′, E. 102° 30′ *	30.04	763.0	80	26.7	82	ene.	.....	.....	3–4	.....	10	.....	.....	0	0	sm'h	.....	overcast.
S. S. Radnorshire, N. 4° 10′, E. 105° 54′	.....	.....	.....	.....	.....	nne.	.....	.....	6	.....	10	.....	nne.	0	0	h'vy	nne.	cloudy
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 31° 17′, W. 72° 30′	29.96	761.0	61	16.1	100	ssw.	.....	.....	4	.....	2	.....	s; w.	.....	.....	sm'h	ssw.	clear.
U. S. S. Iroquois, Talcahuano, Chili	30.15	765.8	62	16.7	83	s.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Lackawanna, S. 31° 39′, W. 72° 19′	30.02	762.5	60	15.6	88	s.	.....	.....	4	.....	8	.....	s.	.....	.....	mod.	sw.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	68	20.0	79	s.	.....	.....	1	.....	8	.....	s.	.....	.....	sm'h	.....	fair.
U. S. S. Wachusetts, Callao, Peru.*†	30.08	764.0	67	19.4	95	sse.	.....	.....	1	.....	8	.....	s.	.....	.....	sm'h	.....	cloudy.
H. M. S. Diamond, S. 33° 52′ E. 151° 14′	30.14	765.5	68	20.0	79	ese.	.....	.....	3	.....	7	e.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.91	759.7	65	18.3	68	sw.	.....	.....	2	.....	3	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.92	760.0	64	17.8	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.96	761.0	57	13.9	88	nne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, Sandy Point, Patagonia	29.69	754.1	50.5	10.3	86	ssw.	.....	.....	1	.....	9	wsw.	.....	.....	.....	.....	.....	d. clouds.
S. S. Australia, S. 27° 21′, W. 172° 58′	30.07	763.8	74	23.3	.....	se.	.....	.....	1	.....	4	.....	s.	0	0	sm'h	se.	cloudy.
S. S. City of Sydney, S. 26° 57′, E. 177° 21′ *†	29.91	759.7	73	22.8	76	ese.	.....	.....	3	.....	8 ck	se.	.....	.....	.....	light	se.	cloudy.
Bk. Alpheus Marshall, S. 2° 04′, E. 168° 43′ *†	29.65	753.1	82	27.8	91	w.	.....	.....	4	.....	10	.....	.....	10 h'r	10 h'r	mod.	wnw.	cloudy.
S. S. George S. Homer, S. 20° 22′, W. 121° 12′*†	30.05	763.3	.....	.....	.....	ese.	.....	.....	5	.....	4	.....	ene.	1 h'r	1 h'r	mod.	e.	fair.
Bk Godeffroy, S. 56° 43′, W. 71° 21′	29.70	754.4	48.2	9.0	87	n.	.....	.....	4	.....	5	.....	var.	light	light	sm'h	var.	fair.
S. St. Francis, S. 37° 00′, W. 81° 30′ *†	30.30	769.6	67	19.4	69	nw.	.....	.....	6	.....	2	.....	nw.	0	0	r'gh	nw.	clear.
S. Grecian, S. 17° 53′, W. 127° —′ †	30.18	766.6	80	26.7	78	e.	.....	.....	0	.....	6	.....	e.	1 h'r	1 h'r	long	s.	fair.
S. Henry Failing, S. 24° 33′, W. 124° 59′*†.	30.15	765.8	83	28.3	83	e.	.....	.....	4	.....	4	.....	e.	0	0	long	ssw.	fine.
H. M. S. Espeigle, S. 43° 01′, E. 174° 10′	29.56	750.8	61	16.1	61	sw.	.....	.....	5-0	.....	9	.....	.....	.....	.....	5	wsw.	squally.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, S. 12° 23′, E. 45° 21′	29.90	759.4	81	27.2	87	ene	10	4.5	.....	.....	10	.....	e.	0.17	4.3	sm'h	.....	cloudy.
U. S. S. Pensacola, S. 16° 09′, E. 65° 44′*	29.88	758.9	81	27.2	83	e.	.....	.....	3	.....	8	.....	e.	light	light	long	e.	cloudy
H. M. S. Coquette, N. 15° 36′, E. 39° 44′	30.00	762.0	77	25.0	86	calm	.....	.....	0	.....	10	.....	.....	.....	.....	sm'h	.....	overcast.
H. M. S. Euryalus, Suakin, Egypt	30.10	764.5	76	24.4	73	n.	.....	.....	4	.....	4	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Orontes, N. 3° 19′, E. 61° 03′	29.95	760.7	80	26.7	?	nne.	.....	.....	3	.....	4	sw.	.....	.....	.....	1	n.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.91	759.7	80	26.7	82	nne.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Woodlark, N. 19° 13′, E. 37° 30′	30.07	763.8	77	25.0	82	nne.	.....	.....	5-6	.....	5	ne.	.....	.....	.....	6	ne.	squally.
S. S. Galatia, N. 10° 32′, E. 56° 44′†	30.00	762.0	76	24.4	91	nne.	.....	.....	4	.....	3	.....	ne.	.....	.....	mod.	ne.	clear
S. S. Port Phillip, N. 12° 23′, E. 51° 04′	30.03	762.7	72	22.2	.....	ne.	.....	.....	2	.....	.....	.....	.....	.....	.....	mod	ne.	clear.
S. Carondelet, S. 19° 05′, E. 113° 37′*†	29.94	760.5	.....	.....	.....	ssw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	ssw.	clear.
S. S. Lepanto, Bombay, India	.....	.....	85	29.4	.....	nne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	clear.
H. M. S. Magpie, N. 7° 40′, E. 98° 18′	29.95	760.7	81.5	27.5	75	ne.	.....	.....	2	.....	9	.....	.....	.....	.....	3	n.	d. clouds.

International Chart I. January 10, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 11, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.40	772.2	56.8	13.8	82	w.			1		10			0	0	covered	Roziere.
Algiers			30.36	771.2	56.1	13.4	87	ne.			3		9			0.063	1.6	very cloudy	Aubert.
La Galle			30.25	768.4	59.0	15.0	70	nne.			2		4			0	0	cloudy	Fonfrède.
Tunis			30.27	768.9	55.8	13.2	82	ne.			3		5			0.091	2.3	cloudy	Delord.
Tebessa					44.6	7.0	85	sw.			2		6			0	0	cloudy	Hans.
Geriville					39.2	4.0	84	ne.			3		4			0.075	1.9	cloudy	Forfert.
Laghouat			30.33	770.4	50.7	10.4	65	calm			0		10			0.205	5.2	covered	Abraham.
Biskra			30.27	768.8	53.6	12.0	72	n.			1		8			0.094	2.4	very cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			29.85	758.2	85.5	29.7	27	se.	11	4.9			2 k			0	0		Charles Todd, C. M. G.
Hobart Town, Tasmania	29.80	756.9	29.99	761.7	56	13.3	64	sw			3		3		w.	0	0	clear	Com. I. Short, R.N.
Melbourne, Victoria	29.96	761.0	30.05	763.3	58.3	14.6	79	s.	9	4.0			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.71	754.5	30.29	769.4	29.5	— 1.4	65	sw.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.27	743.4	30.06	763.4	41.5	5.3	82	w.	0	0			10			0.004	0.1		Dr. Wierzbiski
Eperies	29.33	745.0	30.26	768.7	30.9	— 0.6	94	calm			0		10			0	0	foggy	Julius Mikolik.
Gratz	28.93	734.9	30.21	767.4	32.2	0.1	69	se.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.78	731.0	30.28	769.1	37.8	3.2	83	w			3		1			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.78	731.0	30.18	766.6	34.9	1.6	85	calm			0		1			0	0	clear	The Staff.
Lemberg	29.08	738.6	30.10	764.6	37.2	2.9	85	sw.			4		10			0	0		Dr. T. Stanecki.
Pola	30.17	766.3	30.28	769.2	47.3	8.5	74	nw.			4		0			0	0		I. R. Hydrographic Office.
Szathmar	29.78	756.4	30.27	768.9	32.9	0.5	90	s.			3		9			0	0		Joseph Midlinszky, S. J
Szegedin	29.90	761.8	30.20	769.3	38.1	3.4	93	s.			1		0			0	0		Karl Stancel.
Trieste	30.27	768.8	30.37	771.3	45.3	7.4	66	calm			0		0			0	0		Royal Academy.
Vienna	29.41	747.0	30.15	765.9	38.3	3.5	75	nw.			1		3			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.58	726.0	30.04	762.9	31.8	— 0.1	100	sw.			2		4			0	0		
Brussels	29.81	757.1	30.02	762.4	37.8	3.2	86	sw.			5		10		ssw.	0	0		
Furnes	29.98	761.5	30.00	762.0	49.6	9.8	76	w.			1-2		1			0	0		
Maeseyck	29.87	758.6	29.99	761.8	41.0	5.0	71	wsw.			2		10			0	0		
British.																			
Aberdeen	29.47	748.5	29.57	751.1	37.7	3.2	63	w.	21	9.4			3			0.100	2.5	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			29.92	760.0	42.1	5.1	64	w.	8	3.6			3					d. clouds	John Hartnup.
Bolton, Sharples	29.36	745.7	29.90	759.4	40.4	4.7	78	w.	36	16.1			9					raining	Thomas Mackereth.
Bradford, Yorkshire	29.44	747.8	29.83	757.7	41.6	5.3	69	w.			4		4			0.21	5.3	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.03	762.7	30.06	763.5	80	26.7	74	ne.			2		4					d. clouds	Corp'l W. I. Oull, A.H.C.
Cardington	29.91	759.7	30.03	762.7	42.4	5.8	83	w.			2.0		2					d. clouds	John McLaren.
Chatham, School M. E.	29.83	757.7	30.01	762.2	47.1	8.4	64	w			2		5					d. clouds	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.08	764.6	30.32	770.1	48.0	8.9	63	wnw.			4		8					d. clouds	The Staff.
Fort Napier, Natal	27.52	699.0	29.83	757.7	86.0	30.0	47	w.			1							blue sky	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.86	758.4	85	29.4	72	s.			1		2					d. clouds	J. W. Smith.
Galway, Queen's College	30.06	763.5	30.10	764.5	42	5.6	83	w.			6		10			0.12	3.0	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.37	771.4	30.43	772.9	58.4	14.7	91	e.			4		9					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.84	757.9	30.01	762.2	47.3	8.5	62	wsw.			5		8					d. clouds	The Staff.
Guernsey	29.98	761.5	30.28	769.1	48.0	8.9	74	w.			3		5					d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	30.00	762.0	30.03	762.7	46.5	8.1	56	w.	25	11.2			7					d. clouds	The Staff.
Leicester, Museum	29.68	753.9	29.94	760.5	42.0	5.6	79	sw.			4		7					raining	J. C. Smith.
Malta, Mediterranean	30.18	766.6	30.26	768.6	59.0	15.0	71	se.			2		6			0.03	0.8	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.23	767.8	30.28	769.1	70.0	21.1	75	se.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.80	756.9	30.02	762.5	46.0	7.8	69	sw.			6		8					d. clouds	The Staff.
Plymouth	30.17	766.3	30.24	768.1	48.0	8.9	76	nw.			3		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.33	745.0	29.43	747.5	37.5	3.1	84						10					snowy	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.25	768.3	30.32	770.1	46.6	8.1	74	s.			1		1					blue sky	W. H. Lyne.
Sheffield	29.61	752.1	29.90	759.4	37.8	3.2	95	wsw.			5		7			0.18	4.6	threatening	W. F. Cooper.
Silloth Rectory	29.79	756.7	29.82	757.4	39.4	3.6	97	nw.			4		2			0.060	1.5	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.90	759.4	41.0	5.0	65	wnw.	37	16.5			6					d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					46.3	7.9	71	nw.			3.0		4					squally	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.33	770.4	30.35	770.9	46.5	8.1	77	nw.	29	13.0			7					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.92	760.0	30.32	770.1	57.2	14.0	78	e.	8.7	3.9		0	8 n		e.	0.08	2.0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.82	757.4	29.86	758.4	5.0	—15.0		sw.	25	11.2			10 n			0.020	0.5	snowing	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.98	761.5	22	— 5.6	72	sw.	5	2.2			10 n		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.82	757.4	29.88	758.9	14	—10.0	100	sw.	1	0.4			10 n		sw.	0.02	0.5	light snow	G. A. Blair.
Cornwall, Ontario	29.53	750.0	29.73	755.1	27.7	— 2.4	80	w.			1		10 n			0.200	5.1	snowing	Jas. Smith, M. A.
Dalhousie, N. B.	29.81	757.2	29.86	758.4	13.0	—10.6		calm			0		10 n			inap.	inap.	snowy	H. A. Johnson.
Father Point, Quebec*	29.75	755.6	29.77	756.1	15	— 9.4	73	sw.	15	6.7			10 n		s.	0.30	7.6	heavy sn w	J. McWilliams.
Fort Garry, Manitoba*	28.96	735.6	29.00	759.4	— 6	—21.1	83	s.	14	6.3			10 n					light snow	James Stewart.
Fredericton, N. B.	29.82	757.4	29.89	759.2	16.9	— 8.4	87	e.	2	0.9			10 n			inap.	inap.	snowing	Prof. Thos. Harrison
Grand Manan, N. B.	29.83	757.7	29.88	758.9	35	1.7	75	sw.	22	9.8			10 n		sw.	0.02	0.5	light rain	J. Chipman Seeley
Granton, Ontario	28.80	731.5	29.98	761.5	17.4	— 8.1	94	nw.	5	2.2		3 cs	0			inap.	inap.	blue sky	Jas. Grant.
Halifax, N. S*	29.80	759.2	30.03	762.7	27	— 2.8	96	s.	3	1.3			10 n			inap	inap	light snow	A. Allison.
Hamilton, Ontario	29.48	748.8	29.91	759.7	21.2	— 6.0	86	sw.			1	8 cs	0	sw.		0.300	7.6	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.45	748.0	29.80	756.9	28	— 2.2	88	w.	3	1.3			10 ks		w.	0.05	1.3	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.94	760.5	29.98	761.5	23.0	— 5.0	80	w.	3	1.3		6 k	0	w.		0	0	fair	C. H. Rigby.
London, Ontario	29.01	736.8	29.07	761.2	18.8	— 7.3	83	nw.			2	2 c	6 s			0.30	7.6	d. clouds	E. B. Reed.
Medicine Hat, N. W. T.	27.49	698.2	29.81	757.2	35	1.7	89	sw.	50	22.3			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	27.62	701.5	29.74	755.4	— 2	—18.9	100	s	1	0.4			10 s		s.	0	0	cloudy	Rev. J. M. Wellwood
Montreal, Quebec*	29.51	749.5	29.72	754.9	27	— 2.8	88	w.	12	5.4			10 n			0.15	3.8	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	29.52	749.8	29.75	755.6	20.0	— 6.7	96	ssw.					10 s			0.13	3.3	snowing	A. McGill, M. A.
Parry Sound, Ontario*	29.12	739.6	29.87	758.7	13	—10.6	80	w.	10	4.5		2 k	5 ks	w.	w.	0.18	4.6	fair	Rev. R. Mosley.
Peterboro, Ontario	29.01	736.8	29.79	756.7	19.4	— 7.0	75	nw.			1		10 k			0.090	2.3	overcast	Wm. O'Connor, M.A.
Port Arthur	29.45	748.0	30.27	768.8	—14	—25.6	90	sw.	4	1.8		2 c	0	w.		0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.22	742.2	30.00	762.0	21	— 6.1	100	w.	14	6.3			10 n			0.20	5.1	cloudy	H. Morgan.
Port Stanley, Ontario	29.28	743.7	29.97	761.2	21	— 6.1	84	w.	18	8.0			10 n		w.	0.03	0.8	cloudy	M. Payne.
Qu Appelle, N. W. T	27.33	664.2	29.69	754.1	20	— 6.7		nw.	18	8.0		10 cs	0	calm		0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.34	745.2	29.72	754.9	16	— 8.9	91	calm	0	0			10 s			0.10	2.5	heavy snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.26	743.2	29.75	755.6	11	—11.7	80	calm	0	0			10 n			0.32	8.1	light snow	W. H. McIntyre.
St. Andrews, N. B.	29.81	757.2	29.86	758.4	28	— 2.2	98	s.	3	1.3			10 n			0.05	1.3	light snow	
St. John, N. B	29.73	755.1	29.88	758.9	28.5	— 1.9	94	calm	0	0			10 n			inap.	inap.	snowing	G. Hutchinson.
Saint John's, N. F.																			J. Higgins.
St. Pierre, N. F.			29.88	759.0	26.6	— 3.0		nw.			3								The Commandant.
Saugeen, Ontario*	29.14	740.1	29.90	759.4	23	— 5.0	96	nw	24	10.7			10 s			0.17	4.3	light snow	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
CANADIAN.—Continued.																			
Stratford, Ontario	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Mc Bride, M. A.
Sydney, C. B*	29.93	760.2	30.00	762.0	21	— 6.1	80	sw.	12	5.4	.....	2 cs	0	.....	.....	0.22	5.6	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.49	749.0	29.89	759.2	25	— 3.9	92	w.	19	8.5	.....	.....	10 ks	.....	.....	0.20	5.1	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.84	732.5	29.98	761.5	19.8	— 6.8	92	w.	14	6.3	.....	.....	10 s	.....	.....	0.300	7.6	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.88	758.9	29.95	760.7	35	1.7	96	sw.	10	4.5	.....	fg	fg	.....	.....	0.02	0.5	foggy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	30.00	762.0	30.03	762.7	72.5	22.5	90	ssw.	.....	.....	.....	0	6 s	.....	.....	0	0	fine	I. Garfelt.
Cape Town, The Castle	29.91	759.7	.....	.....	74.5	23.6	44	n.	.....	.....	.....	1 c;k	0	.....	.....	0	0		Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4	.....	.....	83	28.3	36	.....	.....	.....	.....	.....	.....	.....	.....	0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.90	759.4	29.98	761.4	62.2	16.8	92	nw.	.....	.....	2	10	0	.....	.....	.....	.....	cloudy	Samuel Redolez.
Iquique	29.90	759.5	29.93	760.2	68.9	20.5	73	sw.	.....	.....	2	.....	.....	.....	.....	.....	.....	foggy	Rafael Moreno.
Niebla	29.65	753.2	29.76	755.9	63.3	17.4	96	w.	.....	.....	1	0	3 n	.....	w.	0.205	5.2	fair	Federico Köhling.
Punta Caldera	29.91	759.6	29.99	761.8	64.8	18.2	78	nw.	.....	.....	2	6 c	0	nw.	.....	.....	.....	fair	Manuel Tobar.
Punta Corona	29.91	759.6	30.09	764.3	.....	.....	.....	nw.	.....	.....	1	.....	10	.....	.....	1.323	33.6	drizzling	Francisco Alvarado.
Valparaiso	29.80	756.9	29.94	760.4	68.4	20.2	72	sw.	.....	.....	.....	0	0	.....	.....	.....	.....	clear	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.23	767.8	30.25	768.4	47.5	8.6	63	sse.	11.2	5.0	.....	.....	10	.....	.....	0	0		M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.42	747.2	29.47	748.4	40.8	4.9	97	w.	11	5	.....	.....	10	.....	.....	.....	.....	foggy	Oversergent Fischer.
Fanö	29.43	747.5	29.45	748.0	41.0	5.0	86	wsw.	.....	.....	4	.....	4	.....	.....	.....	.....		Overloerer Lauridsen.
Godthaab, Greenland	28.84	732.7	28.89	733.8	31.6	— 0.2	.....	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.72	754.9	29.76	756.0	31.6	— 0.2	87	w.	.....	.....	4	.....	10	.....	.....	.....	.....		A. O. Thoriacius.
Thorshavn	29.48	748.9	29.51	749.5	34.5	1.4	74	nnw.	27	12	.....	.....	7	.....	.....	.....	.....	snow & hail.	Overloerer Bergh.
Vestervig	29.26	743.3	29.36	745.7	39.9	4.4	93	wsw.	.....	.....	7	.....	7	.....	.....	.....	.....		Loerer Oestergaard
EGYPTIAN.																			
Cairo	30.05	763.2	.....	.....	64.4	18	.....	e.	1.6	0.7	.....	0	1 s	.....	.....	0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.87	758.8	30.56	776.1	42.8	6	91	ssw.	.....	.....	1	.....	n	.....	.....	0	0	foggy	M. Labroue, Director.
Alençon, Normal School	29.81	757.1	30.36	771.1	41.4	5.2	94	sw.	.....	.....	1	.....	10 n	.....	.....	0	0	covered	M. Nicot, Director.
Arras, Normal School	.....	.....	30.06	763.5	38.8	3.8	87	sw.	.....	.....	1	.....	5	sw.	sw.	0	0	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.35	771.0	30.43	773.0	47.1	8.4	57	nnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.72	755.0	30.31	769.8	38.8	3.8	79	w.	.....	.....	6	.....	5	.....	w.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.90	759.5	30.18	766.5	41.2	5.1	84	wsw.	.....	.....	2	.....	10	.....	.....	0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.37	746.0	30.31	769.8	55.4	13	55	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Goblin, Director.
Bordeaux, Observatory	30.19	766.7	30.46	773.6	52.3	11.3	84	wnw.	.....	.....	1	.....	8	.....	wnw.	0.004	0.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.84	757.8	30.42	772.6	40.1	4.5	90	wsw.	.....	.....	1	.....	.....	.....	wsw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	30.16	766.0	30.40	772.1	51.1	10.6	82	nw.	.....	.....	2	.....	9	.....	nw.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.11	764.9	30.19	766.8	49.3	9.6	100	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Berson, Director
Châlons-sur-Marne, N.Sch	29.84	757.9	30.17	766.4	37.8	3.2	89	wsw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.68	753.9	30.20	767.1	33.8	1.0	86	se.	.....	.....	1	.....	.....	.....	.....	0.08	2.		M. Noël, Director.
Clermont-Ferrand Obs'y	28.98	736.0	30.34	770.5	58.6	14.8	26	w.	.....	.....	1	.....	0	.....	.....	0	0		M. Alluard, Director.
Cluny, Normal School	29.47	748.5	30.35	770.9	52.7	11.5	58	se	.....	.....	1	.....	0	.....	.....	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.31	744.4	30.19	766.7	43.5	6.4	61	w.	.....	.....	4	.....	0	.....	.....	0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.87	707.9	30.48	774.3	45.7	7.6	51	calm	.....	.....	0	.....	0	.....	.....	0	0		M. Jarach, Director.
Gréasque, du Rhone	29.24	742.8	30.39	771.8	55.9	13.3	17	n.	.....	.....	1	.....	0	.....	.....	0	0		M. Kina, Director.
Grenoble, Normal School	29.62	752.4	30.42	772.7	41.7	5.4	78	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.77	730.7	30.41	772.4	40.6	4.8	90	ne.	.....	.....	4	.....	10 n	.....	.....	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		M. Poilpre, Director
Lescar, Normal School	29.92	760.0	30.53	775.5	58.6	14.8	39	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.29	769.4	30.39	772.0	55.4	13.0	70	wnw.	.....	.....	1	.....	5	.....	w.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.28	743.6	30.36	771.1	48.6	9.2	53	se.	.....	.....	1	.....	0	.....	.....	0	0	misty	M. André, Director.
Mans, Normal School	30.01	762.2	30.33	770.4	39.6	4.2	.....	sw.	.....	.....	4	.....	10	.....	.....	0	0	covered	M. Richard, Director.
Marseille, Observatory	30.13	765.2	30.40	772.1	58.3	14.6	37	w.	.....	.....	0-1	.....	0	.....	.....	0	0		M. Stephan, Director.
Montlouis	25.15	638.9	30.00	761.9	47.8	8.8	38	w.	13.0	5.8	.....	.....	0	.....	.....	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.29	769.4	30.40	772.2	51.1	10.6	93	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Gulzin, Director.
Nancy, Normal School	29.38	746.3	30.17	766.4	46.8	8.2	37	ssw.	.....	.....	2	.....	kn	.....	.....	0	0		M. Hasse, Director.
Nantes, Observatory	30.24	768.0	30.40	772.1	51.1	10.6	84	wsw.	.....	.....	0-2	.....	9 k;kn	.....	wnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.35	771.0	30.47	773.9	50.0	10.0	71	calm	0	0	.....	.....	0	.....	.....	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.50	546.2	.....	.....	25.9	— 3.4	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.29	744.0	30.38	771.6	52.9	11.6	50	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.32	643.2	.....	.....	34.2	1.2	58	wsw.	.....	.....	8	.....	0	.....	.....	0	0		M. Alluard.
Rochefort, Naval Obs'y	30.40	772.1	30.43	772.9	50.0	10.0	92	wsw.	.....	.....	1	.....	8	.....	wsw.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.10	764.5	30.32	770.1	46.6	8.1	94	s.	.....	.....	1	.....	10	.....	.....	0.047	1.2	covered	M. Brotier, Director.
Rodez, Normal School	28.21	716.4	30.39	771.9	48.7	9.3	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.16	766.0	30.21	767.2	48.2	9	86	nnw.	.....	.....	1	.....	10	nnw.	.....	0	0	covered	M. Moullilot, Dir.
St. Lô, Normal School	.....	.....	30.10	764.5	49.1	9.5	83	w.	.....	.....	1	.....	5	nw.	nw.	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.07	763.8	30.24	768.0	39.6	4.2	88	sw.	.....	.....	2	.....	.....	.....	wnw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.81	757.2	30.54	775.8	48.6	9.2	42	nw.	.....	.....	1	.....	2	nw.	.....	0	0	slightly cl'dy	M. Baillaud, Director.
Tours	30.18	766.6	30.36	771.1	45.3	7.4	94	sw.	.....	.....	2	.....	10	.....	sw.	0	0	covered	M. de Tastes.
Versailles, Observatory	29.74	755.3	30.23	767.8	38.8	3.8	93	w.	.....	.....	1	.....	.....	.....	.....	0	0		Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.37	771.5	30.52	775.3	57.6	14.2	45	w.	21.7	9.7	.....	.....	0	.....	.....	0	0	clear	M. Cartier, Director.
GERMAN.																			
Ansbach	28.60	726.5	30.08	764.0	45.7	7.6	52	sw.	.....	.....	4	.....	1	sw.	.....	0	0		Prof. Jnedt.
Bamberg	29.20	741.7	30.04	763.1	42.1	5.6	55	w.	.....	.....	4	.....	5 k	.....	w.	0	0		Prof. Dr. Hoh.
Berlin	29.61	752.2	29.76	755.9	40.6	4.8	65	s.	.....	.....	3	.....	10	.....	.....	0	0		Meteorological Institute
Breslau	29.43	747.6	29.97	761.1	42.3	5.7	70	s.	.....	.....	3	.....	10	wnw.	.....	0	0	foggy	Royal University Obs'y
Carlsruhe	29.62	752.3	30.09	764.2	43.9	6.6	57	sw.	.....	.....	5	.....	0	.....	.....	0.008	0.2		Albert Senz.
Cassel	29.15	740.5	29.87	758.6	34.7	1.5	85	sw.	.....	.....	7	.....	8	s.	.....	0.008	0.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.67	753.5	30.04	763.0	39.2	4.0	80	sw.	.....	.....	4	.....	7	.....	.....	0.004	0.1		Physical Society.
Friedrichshafen	28.79	731.2	30.28	769.0	33.1	0.6	82	sw.	.....	.....	2	.....	0?	.....	.....	0.102	2.6	snowing?	Wilhelm, Chief Tel.
Hamburg	29.62	752.4	29.71	754.7	40.6	4.8	76	w.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	E. Preller.
Kiel	29.59	751.5	29.60	751.9	40.6	4.8	86	sw.	.....	.....	3	.....	10	.....	.....	0.047	1.2		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.43	747.5	29.86	758.4	42.4	5.8	67	s.	.....	.....	3	.....	7	.....	.....	0	0		H. Leppig, Asst.
Magdeburg	29.59	751.5	29.78	756.4	42.8	6.0	63	ssw.	.....	.....	2	.....	9	.....	.....	0	0		Weather Observatory.
Memel	29.54	750.2	29.58	751.4	39.2	4.0	97	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	foggy	Issermann.
Munich	28.27	718.1	30.14	765.6	52.3	11.3	25	w.	.....	.....	8	.....	0	.....	.....	0	0		Central Station.
Neufahrwasser	29.67	753.5	29.68	753.9	42.6	5.9	79	sw.	.....	.....	4	.....	10	.....	.....	0.012	0.3		A. Lothes.
Neustadt, Palatinate	29.56	750.8	30.09	764.2	48.9	9.4	49	sw.	.....	.....	3	.....	0	.....	.....	0	0		Dicknether.
Stuttgart	29.13	739.9	30.04	762.9	50.9	10.5	37	e.	.....	.....	5	.....	2	nw.	.....	0.083	2.1		Prof. Dr. Schoder.
Wustrow	29.57	751.1	29.60	751.7	41.2	5.1	86	sw.	.....	.....	4	.....	10	.....	.....	0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.97	761.1	30.35	771.0	53.8	12.1	.....	n.	.....	.....	1.0	.....	9	.....	.....	0	0	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.98	761.4	30.03	762.8	72.9	22.7	76	sw.	19.0	8.5	.....	.....	2	.....	.....	0	0	d. clouds	
Deesa	29.54	750.2	30.01	762.3	82.3	27.9	23	sw.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.97	761.3	30.01	762.3	78.3	25.7	58	w.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.15	715.0	30.02	762.4	78.8	26.0	17	e.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.45	697.1	29.99	761.8	76.5	24.7	25	ese.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	29.29	743.9	30.06	763.6	62.6	17.0	57	ne.	4.0	1.8	.....	.....	10	.....	.....	0	0	overcast	
Roorkee	29.12	739.6	30.05	763.2	64.8	18.2	53	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Agra	29.48	748.7	30.06	763.5	72.2	22.3	39	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.99	736.4	30.05	763.2	76.9	24.9	29	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.67	728.2	30.08	763.9	70.8	21.6	50	calm	1.0	0.4			0			0	0	blue sky	
Lucknow	29.69	754.0	30.08	763.9	68.3	20.2	45	calm	0	0			0			0	0	blue sky	
Allahabad	29.74	755.4	30.06	763.6	65.3	18.5	68	calm	0	0			2	wnw.		0	0	d. clouds	
Patna	29.89	759.3	30.09	764.2	66.2	19.0	57	ne.	1.5	0.7			4	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.99	711.0	30.07	763.7	63.7	17.6	36	nw.	4.0	1.8			1			0	0	d. clouds	
Cuttack	29.97	761.2	30.05	763.3	72.2	22.3	60	nnw.					0			0	0	blue sky	
Calcutta, Alipore	30.04	762.9	30.06	763.5	65.0	18.3	68	calm	0	0			0			0	0	blue sky	
Dhubri	29.96	760.8	30.08	764.0	64.4	18.0	73	nne.	4.3	1.9			0			0	0	blue sky	
Chittagong	29.98	761.5	30.08	763.9	64.6	18.1	68	sw.	2.4	1.1			0			0	0	blue sky	
Sibsagar	29.77	756.0	30.12	765.1	58.9	14.9	79	ne.	1.6	0.4			0			0	0	blue sky	
Jeypore	28.58	725.9	30.05	763.3	72.7	22.6	37	wnw.	2.8	1.2			0			0	0	blue sky	
Zanzibar	29.87	758.7	29.89	759.2	85.7	29.8	61	ne.	11.4	5.1			5		ne.	0	0	d. clouds	
Bellary	28.52	724.4			77.0	25.0	25	e.	4	1.8			0			0	0	blue sky	
Trichinopoly	29.77	756.1			80.8	27.1	48	ene.	0.2	0.1			0			0	0	blue sky	
ITALIAN.																			
Udine	29.89	759.3	30.32	770.1	45.3	7.4	36	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.81	757.1	30.35	770.8	39.6	4.2	74	w.	4.9	2.2			0			0	0		Prof. G.V.Schiapparelli
Padua	30.21	767.3	30.32	770.2	39.0	3.9	74	wnw.	0.7	0.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.38	746.3	30.33	770.4	39.2	4.0	49	nne.	0.7	0.3			0			0	0		Prof. F. F. Denza.
Genoa	30.17	766.3	30.37	771.3	52.3	11.3	50	calm	0	0			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.28	769.0	30.33	770.3	42.1	5.6	69	nnw.	8.1	3.6			0			0	0		Prof. Luigi Guidi.
Florence	30.04	763.1	30.31	769.8	42.3	5.7	63	e.			2		0			0	0		Prof. Costantino Pittei
Leghorn	30.21	767.4	30.30	769.6	50.9	10.5	68	ne.	6.3	2.8			0			0	0		Prof. P. Monte.
Rome	30.15	765.9	30.34	770.5	51.4	10.8	63	n.	0	0			0			0	0		Prof. P. Tacchini.
Lecce	30.04	763.0	30.30	769.7	52.9	11.6	73	nnw.	15.0	6.7			4	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.46	748.3	30.39	771.8	48.9	9.4	74	wsw.	2.5	1.1			5	w.		0	0		Prof. D. Conti.
Cagliari	30.14	765.5	30.34	770.5	59.0	15.0	68	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	30.09	764.2	30.34	770.7	58.1	14.5	77	ne.	3.8	1.7			6	n.		0	0		Prof. G. Cacciatore.
Syracuse	30.29	769.4	30.34	770.5	56.1	13.4	56	ne.	22.4	10.0			10	ese.		0.047	1.2		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.79	756.7	30.33	770.3	54.0	12.2	59	nw.	1.3	0.6			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.21	767.3	30.24	768.2	33.0	0.6	80	w.			6		10 n		w.	0.087	2.2	snowing	H. Hattori.
Awomori	30.09	764.3	30.13	765.3	28.2	— 2.1	77	nw.	28.9	12.9			10 n			0.063	1.6	snowing	K. Ogawa.
Hakodate	30.09	764.3	30.10	764.6	28.0	— 2.2	80	wnw.	23.2	10.4			10 ks					snowing	Y. Souma.
Hamamatsu	30.20	767.1	30.30	769.6	33.7	0.7	60	wnw.			4	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.41	772.3	30.42	772.7	31.3	— 0.4	84	n.	6.0	2.7		10 ck	0	w.		0	0	cloudy	Y. Okamoto.
Kagoshima	30.41	772.3	30.42	772.6	41.5	5.3	67	n.			2		10 s		w.	0	0	overcast	
Kanazawa	30.28	769.0	30.39	771.8	32.7	0.4	92	se.	5.7	2.5			10s;ks		nw.	0.013	0.3	overcast	S. Endo.
Kioto	30.21	767.3	30.38	771.7	31.5	— 0.3		n.	0.4	0.2		0	8s;ck		nw.	0	0	cloudy	M. Tojima.
Kochi	30.39	771.8	30.41	772.3	34.0	1.1	79	w	1.5	0.6		10 ck	0	w.				raining	K. Kusunose.
Minasaka	30.38	771.8	30.41	772.5	37.2	2.9	86	wnw.			2		10 s		w.	0	0	cloudy	K. Masusaki.
Miyako	29.96	761.0	30.07	763.8	32.3	0.2	62	sw.	0.4	0.2		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.21	767.3	30.42	772.6	36.1	2.3	85	calm	0	0		2 c	8 s	nw.	w.	0	0	overcast	
Nemuro	29.84	757.9	29.89	759.2	19.5	— 6.9	76	w.	12.0	5.4		2 k	0	w.		0	0	clear	A Shibuya.
Niigata	30.29	769.3	30.33	770.4	35.2	1.8	78	sw.	6.1	2.7			10ks;s		sw.	0	0	cloudy	Satoo & Tomikawa.
Nobiru	30.16	766.0	30.18	766.4	34.8	1.6	99	nw.	19.0	8.5			9 ks		nw.	0.010	0.3	cloudy	Yoslino & Midzushina.
Numadzu	30.23	767.8	30.27	768.8	29.0	— 1.7	61	nne.			2	0	0			0	0	clear	T. Ohgi.
Osaka	30.39	771.8	30.40	772.2	31.0	— 0.6		w.	1.4	0.6		9cs;ck	0	w.		0	0	cloudy	H. Omura.
Sakai	30.38	771.5	30.39	771.7	33.3	0.7	82	sw.			2		10 ks		w.	0	0	cloudy	Yamawchi & Sakamoto.
Sapporo	29.98	761.5	30.05	763.3	23.8	— 4.6	95	nw.	6.2	2.8		0	5 s		nw.	0.301	7.6	fair	S. Kimura.
Shimonoseki	30.26	768.6	30.41	772.3	36.7	2.6	81	e.			1	ck	9 s	w.	w.	0	0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.20	767.0	30.28	769.1	31.8	— 0.1	78	n.	7.7	3.4		0	0			0	0	clear	The Staff.
Wakayama	30.34	770.6	30.39	772.0	32.8	0.4	71	ne.	3.5	1.6		10 ok	0	w.		0	0	cloudy	K. akal & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.80	756.9	29.99	761.7	77.0	25.0	89	ese.	6.0	2.7			8 nk		s;ne	0.32	8.1	cloudy	The Staff.
MEXICAN.																			
Leon	24.29	617.0	30.17	766.3	42.3	5.7	86	n.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.69	754.2	29.95	760.8	71.0	21.7	71	ssw.	11.0	4.9		0	7 n		ssw.	inap.	inap.	cloudy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.96	760.9	29.96	760.9	44.6	7.0		wsw.			5					0	0		
Groningen	29.74	755.3	29.79	759.7	43.0	6.1		wsw.			3					0	0		
Helder	29.78	756.4	29.78	756.4	44.2	6.8		w.			4					0	0		
Hellevoetsluis	29.91	759.8	29.91	759.8	48.9	9.4	70	w.			4					0	0		
Utrecht	29.84	757.8	29.89	759.2	42.4	5.8	77	wsw.			4		8			0.008	0.2	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.91	759.8			73.4	23.0	95	wsw.	0	0			10			0.409	10.4		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.08	738.6	29.14	740.2	37.8	3.2	83	sw.	16	7			10			0.315	8.0	raining	
Brono	28.93	734.8	28.97	735.8	31.0	1.1	92	s.			4		10			0.433	11.0	snowing	
Christiania	29.01	736.8	29.16	740.6	33.6	0.9	96	calm	0	0			10			0	0	foggy	
Gjesvær	28.88	733.6	28.91	734.2	30.7	— 0.7		ssw.			2		9			0	0		
Lodingen	28.76	730.5	28.81	731.7	37.2	2.9	69	s.			7		10			0.079	2.0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.15	765.7	30.24	768.0	65.3	18.5	73	e.	3.1	1.4			10			0.020	0.5		Capt. D. A. de Cunha.
Lisbon, Observatory	30.17	766.2	30.52	775.1	50.0	10.0	69	nne.	10.5	4.7			0			0	0		The Staff.
Ponta Delgada, Azores	30.15	765.8	30.22	767.6	62.6	17.0	73	ne.	5.6	2.5			3			0.598	15.2		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	29.98	761.4	30.01	762.3	68.4	20.2	68	calm			0		3			0.063	1.6		
San Salvador, Congo	28.10	713.7	29.91	759.7	84.2	29.0	60	e.			1		8			0	0		
Serra da Estrella	25.66	651.8	30.53	775.4	42.3	5.7	54	ese.	24.2	10.8			0			0	0		
RUSSIAN.																			
Akmolinski	28.79	731.3	29.98	761.4	5.5	—14.7	91	wsw.	13	6		7 ck	0			0.024	0.6		Major K. Lasarew.
Archangel	29.04	752.9	29.66	753.4	— 7.2	—21.7	95	se.	9	4			9 k			0	0		Capt. Sselilwerstow
Ashuruda	30.19	766.7	30.09	764.3	43.0	6.1	84	e.	16	7		0	5 kn			0.217	5.5		
Astrakhan	29.95	760.7	29.87	758.7	14.7	— 9.6	74	nnw.	4	2			9 ks						Capt. Wisganow.
Baku	29.97	761.3	29.93	760.1	35.6	2.0	57	sw.	45	20		0	0			0	0		
Barnaul	29.54	750.2	30.05	763.3	8.4	—13.1	74	ne.	4	2			10			0.091	2.3		Meteorological Office.
Bielosersk	29.33	745.0	29.84	758.0	3.6	—15.8	93	s.	4	2			10 s			0	0		
Dorpat	29.25	742.9	29.50	749.2	34.2	1.2	96	s.	11	5			10 n			0.291	7.4		Observatory.
Ekaterinburg	28.18	736.0	30.02	762.5	10.8	—11.7	100	calm	0	0			10 n			0	0	foggy	Meteorological Obs'y.
Elissawetgrad	29.58	751.4	30.05	763.3	34.3	1.3	92	wsw.	9	4			10 n			inap.	inap.		
Kasan	29.75	755.6	30.06	763.4	— 8.9	—22.7	92	calm	0	0			5			0	0		Observatory.
Kem	29.49	749.1	29.54	750.4	11.1	—11.6	85	s.	18	8			10 n			0	0		
Kertcn	30.07	763.8	30.10	764.4	27.5	— 2.5	96	nw.	7	3		0	8 n			0	0		Lagorio & Sastyres.
Kieff	29.24	742.8	29.91	759.6	33.6	0.9	96	w.	9	4			10 n			0.024	0.6	light rain	Observatory.
Koslov	29.30	744.2	29.85	758.2	3.6	—15.8	74	nnw.	4	2			9 s			0	0		
Lgov	29.35	745.5	29.99	761.7	12.0	—11.1	92	calm	0	0			10			0.008	0.2		R. I. Ssaweljew, Engin'r.
Libau	29.53	750.0	29.55	750.6	38.5	3.6	100	sw.	11	5			10			0.016	0.4	foggy	E. Quans.
Lugan	29.78	756.5	30.01	762.2	8.6	—13.0	76	wsw.	13	6			3			0	0		Meteorological Obs'y.
Moscow	29.37	745.9	29.91	759.6	0.3	—17.6	76	calm	0	0		0	0			0	0		Meteorological Obs'y
Nertschinsk	27.72	704.0	30.33	770.3	—11.6	—24.2	87	calm	0	0			8			0	0		

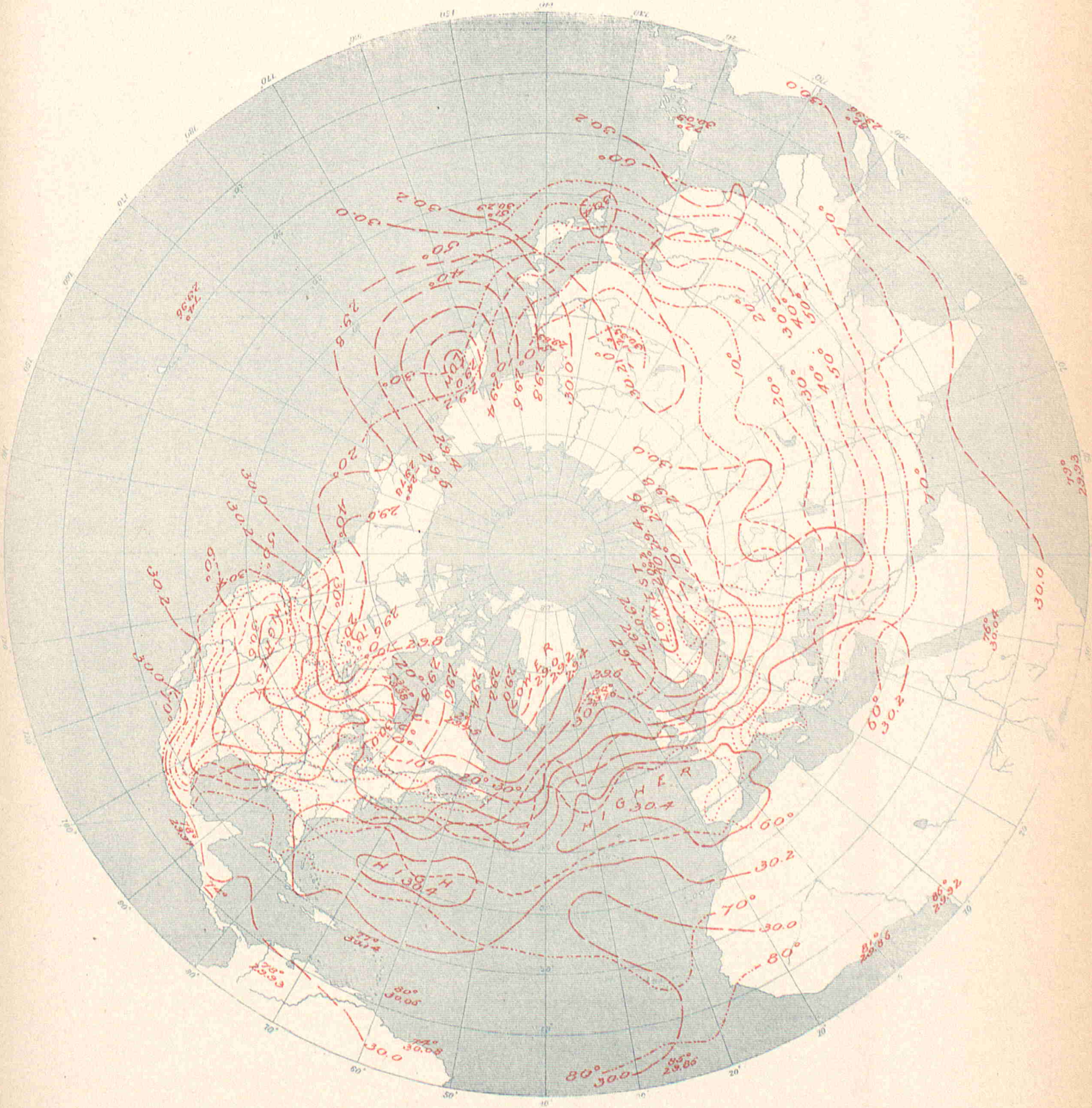
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Miles p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	30.04	763.0	30.11	764.8	36.3	2.4	89	wsw.	20	9			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolievsk-on-the-Amoor.	29.74	755.4	29.83	757.6	— 4.7	—20.4	60	w.	7	3		0	0						Iwanow.
Pekin, China	29.96	761.0	30.10	764.6	28.0	— 2.2	71	calm	0	0		0	6 k			0	0		Physical Observatory
Petro-Alexandrovsk	29.76	755.9	30.13	765.3	34.0	1.1	87	wsw.	2	1			10 k						
Petrozavodsk	29.51	749.6	29.73	755.1	2.5	—16.4	85	se.	7	3			10			0.004	0.1	light clouds	Dr. Bergmann.
Pinsk	29.41	747.1	29.93	760.1	37.8	3.2	97	w.	18	8			10 s			0.122	3.1		
Poti	30.11	764.7	30.12	765.1	41.2	5.1	73	w.	16	7			10 n			0.220	5.6	rain & snow	
St. Petersburg	29.55	750.5	29.57	751.1	15.8	— 9.0	91	sse.	18	8			10 n			0.035	0.9		Central Physical Obs'y.
Samarkand	27.56	700.1	30.13	765.2	36.1	2.3	79	calm	0	0		5 cs	0						
Semipalatinsk	29.37	746.0	30.09	764.3	9.3	—12.6	56	w.	7	3			10			0.098	2.5		Major Lasarew
Sevastopol	30.10	766.1	30.19	766.7	41.2	5.1	68	nnw.	20	9			10 n			0.004	0.1	h'vy clouds.	
Starol Bykhov	29.23	742.4	29.81	757.1	30.9	— 0.6	94	se.	9	4			10			0.122	3.1		
Tashkend, Laboratory	28.40	721.4	30.17	766.4	29.5	— 1.4	70	nw.	18	8			9 kn						Terch, A. M
Tiflis	28.63	727.3	30.13	765.4	29.1	— 1.6	60	se.	9	4		0	7 s			0	0		Physical Observatory.
Vernoe	27.54	699.4	30.19	766.7	25.3	— 3.7	85	calm	0	0			9 k						
Viatka	29.29	744.0	29.98	761.5	7.9	—13.4	96	s.	22	10			10			0	0		
Vladivostock	30.20	767.0	30.26	768.7	5.9	—14.5	90	w.	13	6		0	0			0	0		
Warsaw	29.52	749.8	29.95	760.8	40.3	4.6	89	s.	11	5			9 kn			0	0	h'vy clouds	Astronomical Obs'y.
Yeniseisk	29.86	758.4	30.18	766.6	— 4.4	—20.2	79	wnw.	4	2			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.23	742.4	29.84	757.9	— 1.8	—18.8	83	w.	0.2	0.04		0	4 s		e.	0	0	fair	Prof. S. Fadeieff.
Spanish.																			
Barcelona, Met. Obs'y	30.26	768.7	30.33	771.6	55.2	12.9	65	nw.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.51	774.9	30.57	776.4	57.4	14.1	59	se.	4.0	1.8		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.54	699.6	30.64	778.2	44.1	6.7	57	se.	2.5	1.1		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.28	718.3	30.60	777.1	47.1	8.4	60	n.	3.4	1.5		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.36	771.1	30.51	774.9	58.6	14.8	72	w.	0.7	0.3		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.59	751.5	30.50	774.7	54.5	12.5	61	n.	0.7	0.3			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.10	764.4	30.16	766.1	66.6	19.2	89	e.	1.6	0.7		3 cs	0	w.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.03	762.8	30.09	764.2	72.0	22.0	75	n.	5.5	2.5		3 cs	s			0	0	fair	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.36	771.2	30.46	773.7	60.8	16.0	61	e.	18.5	8.3		1	3	e.	e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	30.05	763.2	30.14	765.5	76.6	24.8	98	ne.	14.3	6.4		0	6 kn		ne.	0	0	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.17	740.8	29.21	741.8	25.5	— 3.6	100	s.			6		10			0	0		
Umea	29.12	739.6	29.17	740.9	12.6	—10.8	93	sw.			2		5			0	0		
Hernosand	29.12	739.6	29.17	740.9	12.9	—10.6	93	calm			0		3			0	0		
Stockholm	29.10	739.0	29.27	743.5	37.8	3.2	90	wsw.			2		10			0	0		
Wisby	29.37	746.1	29.43	747.6	40.3	4.6	90	wsw.			7		10					raining	
Sub-series.																			
Upsala	29.14	740.1	29.22	742.3	36.1	2.3	91	sw.	10.7	4.8			10		wsw.	0.004	0.1		H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.36	771.1	45.0	7.2	77	s.	2	1.0			3		sw.	0	0		The Observatory.
Valona			30.36	771.1	56.8	13.8		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.27	768.8	60.6	15.9	58	nw.			1	c	1 k		sse.	0.187	4.8		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	29.80	756.9	29.89	759.2	36	2.2	69	s.	12	5.4			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.30	744.2	30.01	762.2	12.3	—10.9	80	w.	9	4.0		6 k	0	nw.		0.29	7.4	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.17	639.3	30.29	769.4	22.0	— 5.6	76	s.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	30.18	766.6	33.3	0.7	81	sw.	30	13.4			10 s		sw.	0	0	cloudy	F. Newman.
Atlanta, Georgia	28.92	734.6	30.15	765.8	45.0	7.2	93	s.	13	5.8			10 s			0.06	1.5	cloudy	S. W. Beall.
Atlantic City, New Jersey.	29.97	761.2	29.95	761.5	38.0	3.3	73	s.	8	3.6			10 k		s.	0	0	cloudy	B. A. Blundon.
Augusta, Georgia	30.01	762.2	30.21	767.3	40	4.4	86	calm	0	0		9cs;ck	0	sw.		0	0	cloudy	W. J. Evans.
Baltimore, Maryland	29.96	761.0	30.01	762.2	42.2	5.7	70	calm	0	0			10 s			0.03	0.8	threatening	Geo. W. Felger.
Barnegat City, New Jersey	29.99	761.7	30.01	762.2	36.5	2.5	80	sw.	15	6.7			10 s		sw.	0	0	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.30	718.8	30.04	763.0	3.0	—16.1	76	ne.	1	0.4			10 s		ne.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.25	692.1	30.23	767.8	39.5	4.2	59	sw.	28	12.5			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	27.93	709.4	29.93	760.2	14	—10.0	83	s.	8	3.6			10 s		n.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.94	760.5	29.98	761.5	40.0	4.4	94	sw.	16	7.2			10 n		sw.	0.18	4.6	light rain	J. T. Elker.
Boise City, Idaho	27.71	703.8	30.64	778.2	18	— 7.8	91	n.	2	0.9		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.73	755.1	29.90	759.4	38.0	3.3	91	sw.	12	5.4			10 s		sw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.17	766.3	30.23	767.8	47.3	8.5	48	n.	21	9.4			10 s			0	0	cloudy	John McGlone.
Buffalo, New York	29.14	740.1	29.93	760.2	26.7	— 2.9	89	w.	12	5.4			10 s			0.02	0.5	cloudy	Wm. Flun.
Buford, Fort, Dakota	27.66	702.6	29.89	759.2	32.2	0.0	81	w.	32	14.3		9 cs	0	nw.		0	0	cloudy	A. Schneider.
Cairo, Illinois	29.96	761.0	30.38	771.6	17.0	— 8.3	78	n.	10	4.5		0	6 s		n.	0.04	1.0	fair	W. H. Ray.
Canby, Fort, Washington Ter	30.13	765.3	30.33	770.4	46.0	7.8	83	s.	28	12.5			10 n			0.04	1.0	light rain	J. H. Young.
Cape Henry, Virginia	30.11	764.8	30.13	765.3	46.0	7.8	60	sw.	16	7.2		0	6 s		sw.	0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.99	761.7	30.02	762.5	42.0	5.6	83	sw.	28	12.5			10 s			0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.73	755.1	30.43	772.0	51	10.6	80	n.	3	1.3		0	0			0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.23	767.8	30.25	768.3	54.0	12.2	90	ne.	7	3.1		0	2 k		e.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.17	766.3	30.23	767.8	49.0	9.4	93	sw.	7	3.1		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.16	766.1	41.0	5.0	73	sw.	4	1.8			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.25	742.9	30.11	764.8	44.0	6.7	95	n.	4	1.8			10 n		n.	0.47	11.9	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.00	609.6	30.27	768.8	25.4	— 3.7	58	nw.	28	12.5		0	3 s			0	0	clear	E. McGovern.
Chicago, Illinois	29.43	747.5	30.18	766.6	18.0	— 7.8	67	w.	8	3.6			10 s			0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	42	5.6	65	sw.	15	6.7			8 k		w.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.15	765.8	29.2	— 1.6	82	nw.	7	3.1			10 s			0.11	2.8	cloudy	L. Dunne.
Cleveland, Ohio	29.22	742.2	30.00	762.0	27.0	— 2.8	82	nw.	12	5.4			10 s		nw.	0.01	0.2	cloudy	W. Line.
Columbus, Ohio	29.17	740.9	30.07	763.8	27.8	— 2.3	78	sw.	12	5.4			10 s			0.05	1.3	cloudy	F. T. Williams.
Concho, Fort, Texas	28.50	723.9	30.52	775.2	27.0	— 2.8	77	n.	20	8.9		2 k	0			0	0	clear	C. E. King.
Custer, Fort, Montana	26.83	681.5	30.21	767.3	37	2.8	82	w.	20	8.9			10 s			0	0	cloudy	W. J. Daily.
Davenport, Iowa	29.61	752.1	30.32	770.1	0	—17.8	68	w.	8	3.6		0	0			inap.	inap.	clear	R. R. Martin.
Davis, Fort, Texas	25.42	645.7	30.40	772.1	17.4	— 8.1	83	n.	8	3.6			10 s		n.	0.40	10.2	cloudy	J. Williams.
Dayton, Washington T'y	28.54	724.9	30.35	770.9	38.9	3.8	54	sw.	4	1.8			10 ks		w.	0	0	cloudy	H. S. Blandford.
Deadwood, Dakota	25.25	641.3	30.20	767.1	32.0	0.0	78	s.	12	5.4			10 s			0.02	0.5	cloudy	G. Kingsbury.
Delaware Breakwater, Del	30.00	762.0	30.02	762.5	44.8	7.1	65	sw.	34	15.2			10 s		sw.	0	0	cloudy	G. A. Martin.
Denver, Colorado	24.79	629.7	30.31	769.9	28.0	— 2.2	47	s.	10	4.5		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.42	747.3	30.39	771.9	— 4	—20.0	65	nw.	2	0.9		0	0			inap.	inap.	clear	F. W. Conrad.
Detroit, Michigan	29.28	743.7	30.04	763.0	25.0	— 3.9	73	ne.	4	1.8			10 s			0.03	0.8	cloudy	N. B. Conger.
Dodge City, Kansas	27.69	703.3	30.44	773.2	11.5	—11.4	73	w.	8	3.6		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.54	750.3	30.31	769.9	— 4.8	—20.4	44	nw.	4	1.8		0	0			0	0	clear	J. Harvey Smith
Duluth, Minnesota	29.40	746.7	30.22	767.6	—16	—26.7	100	sw.	3	1.3		0	0			0	0	clear	E. R. Brace.
Eastport, Maine	29.80	756.9	29.87	758.7	33.0	0.6	78	sw.	6	2.7			10n; fg		sw.	0.08	2.0	light snow	D. C. Murphy.
Elliott, Fort, Texas	27.58	700.5	30.51	774.9	14.0	—10.0	91	w.	6	2.7		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.59	675.4	30.47	773.9	24.0	— 4.4	76	e.	4	1.8		0	0			0.01	0.3	clear	J. O'Dowd.
Erie, Pennsylvania	29.22	742.2	29.98	761.5	26.5	— 3.1	88	nw.	9	4.0			10 n			0.02	0.5	light snow	C. A. Shaw.
Escanaba, Michigan	29.44	747.8	30.16	766.1	— 1.0	—18.3	83	w.	4	1.8		1 c	0			0.09	2.3	clear	L. M. Pindell.
Fort Smith, Arkansas	29.99	761.7	30.49	774.4	16.0	— 8.9	83	n.	8	3.6		0	0			0	0	clear	J. B. Campbell.
Galveston, Texas	30.11	764.8	30.15	765.8	39	3.9	86	n.	26	11.6			10 n		n.	0.47	11.9	light rain	E. O'C. Macinerney
Grand Haven, Michigan	29.39	746.5	30.10	764.5	18.0	— 7.8	84	nw.	13	5.8			10 n			0.24	6.1	light snow	Joseph E. Muelle
Grant, Fort, Arizona	25.39	644.9	30.29	769.4	26.2	— 3.2	65	s.	8	3.6		0	0			0.01	0.3	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.20	767.1	30.21	767.3	53.0	11.7	93	sw.	10	4.5	.....	3 c	4 ks	sw.	se.	0	0	fair	R. M. Crawford.
Helena, Montana	26.01	660.6	30.39	771.9	.....	.....	.....	w.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.65	727.7	30.19	766.8	— 2.2	—19.0	58	se.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.32	744.7	30.16	766.1	17.5	— 8.1	62	nw.	12	5.4	.....	.....	10 s	.....	nw.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.20	767.1	30.22	767.6	40.0	4.4	57	n.	47	21.0	.....	.....	10 ks	.....	n.	0.02	0.5	cloudy	I. A. Reed.
Jacksonville Florida	30.22	767.6	30.27	768.8	48.0	8.9	89	e.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.69	754.1	30.39	771.9	— 1.0	—18.3	62	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.14	765.5	30.16	766.1	70	21.1	78	e.	12	5.4	.....	4 cs	9	sw.	.....	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.19	766.8	30.21	767.3	45.0	7.2	93	sw.	12	5.4	.....	6 cs	0	w.	.....	0	0	fair	Wesley Blake.
Knoxville, Tennessee	29.02	737.1	30.10	764.5	33	0.6	100	se.	4	1.8	.....	.....	10 n	.....	.....	0.44	11.2	light rain	J. A. Cody.
La Crosse, Wisconsin	29.42	747.3	30.26	768.6	— 8	—22.2	58	w	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	S. C. Emery.
Leavenworth, Kansas	29.52	749.8	30.48	774.2	4	—15.6	85	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	29.52	749.8	30.39	771.9	43.0	6.1	60	ne.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	30.01	762.2	30.34	770.6	26.5	— 3.1	67	n.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	W. U. Simons.
Los Angeles, California	29.94	760.5	30.34	770.6	43.5	6.4	49	calm	0	0	.....	2 c	0	sw.	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.58	751.3	30.17	766.3	27.3	— 2.6	75	w	13	5.8	.....	.....	10 s	.....	w.	0.13	3.3	cloudy	L. M. Dey.
Lynchburg, Virginia	29.32	744.7	30.04	763.0	40.0	4.4	73	s.	6	2.7	.....	.....	10 s	.....	.....	0.34	8.6	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.29	744.0	29.99	761.7	9.0	—12.8	76	w.	9	4.0	.....	0	9 s	.....	.....	0.70	17.8	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.21	767.3	30.22	767.6	50.0	10.0	90	s.	11	4.9	.....	2 cs	0	w.	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.57	649.5	30.34	770.6	33.4	0.8	71	sw.	40	17.9	.....	10 ck	0	sw.	.....	0	0	cloudy	F. Burke.
Marquette, Michigan	29.35	745.5	30.13	765.3	— 4.0	—20.0	65	w.	12	5.4	.....	0	0	.....	.....	0.08	2.0	clear	J. Gilligan.
Memphis, Tennessee	29.93	760.2	30.29	769.4	27	— 2.8	84	nw.	20	8.9	.....	.....	10 s	.....	nw.	0.93	23.6	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.38	746.2	30.18	766.6	10.0	—12.2	80	n.	15	6.7	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	S. W. Rhode.
Mobile, Alabama	30.03	762.7	30.07	763.8	58.4	14.7	93	s.	7	3.1	.....	2 k	4 s:fg	w.	s.	0.78	19.8	fair	H. U. Jones.
Montgomery, Alabama	29.87	758.7	30.11	764.8	51	10.6	93	nw.	1	0.4	.....	.....	10 n	.....	.....	0.26	6.6	light rain	Geo. E. Franklin.
Moorhead, Minnesota	28.87	733.3	29.98	761.5	—10	—23.3	100	s.	28	12.5	.....	.....	10 s	.....	s.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.32	592.3	29.95	760.7	16.0	— 8.9	98	w.	60	26.8	.....	.....	fg.	.....	w.	0.05	1.3	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.63	752.6	30.24	768.1	30.5	— 0.8	88	nw.	8	3.6	.....	.....	10 n	.....	.....	0.84	21.3	light snow	L. N. Jesunofsky.
New Haven, Connecticut	29.83	757.7	29.95	760.7	34	1.1	94	sw.	3	1.3	.....	.....	10u;fg	.....	sw.	0.15	3.8	light rain	J. H. Sherman.
New London, Connecticut	29.95	760.7	30.00	762.0	34.0	1.1	100	sw.	8	3.6	.....	.....	10 n	.....	sw.	0.21	5.3	light rain	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.05	763.3	62.0	16.7	93	s.	8	3.6	.....	2 cs	7 s	w.	sw.	0.27	6.9	cloudy	M. Herman.
New York, New York	29.78	756.4	29.97	761.2	35.5	1.9	74	sw.	7	3.1	.....	.....	10s;fg	.....	.....	0.04	1.0	threatening	H. J. Penrod.
Norfolk, Virginia	30.08	764.0	30.11	764.8	42.1	5.6	65	sw.	8	3.6	.....	0	9 s	.....	sw.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.18	690.4	30.30	769.6	13.1	—10.5	58	w.	5	2.2	.....	0	3 s	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	30.27	768.8	30.31	769.9	45.0	7.2	68	s.	7	3.1	.....	10 k	0	w.	.....	inap.	inap.	cloudy	J. Dascomb
Omaha, Nebraska	29.15	740.4	30.42	772.7	— 0.7	—18.2	72	sw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	A. Pollak
Oswego, New York	29.50	749.3	29.86	758.4	35.0	1.7	79	w.	11	4.9	.....	.....	10 n	.....	w.	0.13	3.3	sleeting	J. G. Linsley.
Palestine, Texas	29.82	757.4	30.40	772.1	29.5	— 1.4	67	n.	12	5.4	.....	0	8 s	.....	nw.	0.02	0.5	cloudy	P. T. Jenkins.
Pensacola, Florida	30.06	763.5	30.09	764.3	59.8	15.4	98	s.	14	6.3	.....	.....	10 n	.....	.....	0.34	8.6	light rain	M. McGauran.
Philadelphia, Pa.	29.88	758.9	29.99	761.7	41	5.0	73	sw.	8	3.6	.....	.....	10s;fg	.....	sw.	0.05	1.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.71	449.8	30.41	772.4	5.0	—15.0	83	n.	24	10.7	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.11	739.4	29.96	761.0	37.8	3.2	89	sw.	6	2.7	.....	.....	10 n	.....	sw.	0.17	4.3	light rain	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	2.4	—16.4	85	nw.	.....	.....	4	0	0	.....	.....	0	0	clear	G. A. Garden.
Port Huron, Michigan	29.23	742.4	29.96	761.0	18.8	— 7.3	84	w.	4	1.8	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	M. H. Perry
Portland, Maine	29.79	756.7	29.84	757.9	32.1	0.1	87	sw.	5	2.2	.....	10 cs	hz.	w.	.....	0.03	0.8	cloudy	W. W. Eichelberger.
Portland, Oregon	30.34	770.6	30.41	772.4	33.5	0.8	94	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	M. L. Hearne.
Prescott, Arizona	24.99	634.7	30.37	771.4	28.0	— 2.2	51	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	29.90	759.4	29.93	760.2	38.5	3.6	89	sw.	14	6.3	.....	2 cs	8 n	.....	sw.	0.02	0.5	light rain	O. N. Kitchel.
Red Bluff, California	30.18	766.6	30.54	775.7	34	1.1	88	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.12	765.0	30.36	771.1	48.0	8.9	42	nw.	24	10.7	.....	10 cs	0	nw.	.....	0	0	cloudy	L. G. Schultz.
Rochester, N. Y.	29.18	741.2	29.90	759.4	31	— 0.6	83	w.	19	8.5	.....	.....	10 k	.....	w.	inap.	inap.	cloudy	E. W. McGann.
Roseburg, Oregon	29.92	760.0	30.49	774.4	34.3	1.3	87	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	30.44	773.2	30.52	775.2	37.0	2.8	94	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.74	755.4	30.40	772.1	8.0	—13.3	76	w.	16	7.2	.....	0	2 s	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.74	755.4	29.78	756.4	—24	—31.1	100	s.	.....	.....	1	4 ck	3 s	.....	s.	0	0	fair	Fred. H. Clarke.
St. Paul, Minnesota	29.32	744.7	30.26	768.6	—17.0	—27.2	100	calm	0	0	.....	0	0	.....	.....	0.06	1.5	clear	P. F. Lyons.
St. Vincent, Minnesota	28.88	733.5	29.86	758.4	— 9	—22.8	84	..	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	26.10	662.9	30.67	779.0	23.5	— 4.7	58	calm	0	0	.....	3 c	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.18	766.6	30.24	768.1	50.3	10.2	40	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.32	744.7	30.04	763.0	26.5	— 3.1	77	w.	13	5.8	.....	.....	10 s	.....	w.	inap.	inap.	threatening	B. F. Hough.
Sandy Hook, New Jersey	29.95	760.7	29.98	761.5	39.0	3.9	89	sw.	8	3.6	.....	.....	10 n	.....	.....	0.07	1.8	light rain	Y. P. Chappel.
Sanford, Florida	30.20	767.1	30.25	768.3	52.0	11.1	90	sw.	1	0.4	.....	0	7 ks	.....	sw.	0	0	fair	J. B. Marbury
San Francisco, California	30.41	772.4	30.48	774.2	44.5	6.9	89	nw.	3	1.3	.....	3 cs	0	nw.	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.16	766.1	30.26	768.6	47	8.3	76	s.	7	3.1	.....	0	fg.	.....	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.42	671.1	30.28	769.1	39	3.9	57	sw.	24	10.7	.....	9 cs	0	.....	.....	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.10	764.5	30.35	770.9	32.0	0.0	68	n.	11	4.9	.....	.....	10 s	.....	n.	1.22	31.0	cloudy	E. N. Meekins.
Sitka, Alaska	29.49	749.0	29.56	750.8	38.1	3.4	79	e.	3	1.3	.....	.....	10 ks	.....	e.	0.44	11.2	cloudy	F. W. Fickett.
Smithville North Carolina	30.18	766.6	30.22	767.6	51.3	10.7	89	s.	16	7.2	.....	3 c	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.24	717.3	30.38	771.6	29	— 1.7	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.62	752.3	30.35	770.9	5.4	—14.8	76	nw.	7	3.1	.....	3 c	0	w.	.....	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.38	695.4	30.52	775.2	25.0	— 3.9	100	n.	6	2.7	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	30.10	764.5	.....	.....	44.6	7.0	98	s.	24	10.7	.....	.....	10 n	.....	s.	1.74	44.2	light rain	R. Connor.
Thomas, Camp, Arizona	27.60	701.0	30.43	772.9	28.8	— 1.8	74	e	.....	.....	2	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.27	743.4	30.01	762.2	28	— 2.2	88	w.	13	5.8	.....	.....	10 n	.....	.....	inap.	inap.	light rain	A. Buell.
Unalaska, Alaska	29.78	756.4	29.80	756.9	20	— 6.7	70	s.	3	1.3	.....	4 cs	3 s	.....	.....	0	0	fair	Samuel Applegate.
Vicksburg, Mississippi	29.91	759.7	30.18	766.6	36.3	2.4	91	n.	8	3.6	.....	.....	10 n	.....	sw.	0.57	14.5	light rain	C. Dill.
Washington, D. C.	29.89	759.2	30.01	762.2	39.9	4.4	77	s.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.25	666.7	30.38	771.6	8.5	—13.1	89	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.17	766.3	30.23	767.8	49.5	9.7	91	sw.	7	3.1	.....	2 ck	0	.....	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	28.86	733.0	30.28	769.1	— 5.3	—20.7	75	ne.	3	1.3	.....	7 c	0	.....	.....	inap.	inap.	fair	E. H. Thompson.
Yuma, Arizona	30.14	765.5	30.30	769.6	52.1	11.2	19	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	28.90	734.0	28.92	734.6	31.9	— 0.1	93	ne.	40	17.9	.....	.....	10 n	.....	.....	0.11	2.8	hailing	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	78	25.6	.....	ne.	.....	.....	6	1 c	4 ks	.....	ne.	1.40	35.6	fair	W. H. Jackson.
Bogota, U. S. C.	21.98	558.4	.....	.....	50.0	10.0	86	ne.	2	1	.....	0	0	.....	.....	0.504	12.8	.....	Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	29.29	744.0	29.45	748.0	2	—16.7	100	sw.	33	14.8	.....	0	0	.....	.....	0.04	16.3	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.10	764.5	72.5	22.5	81	n.	1	0.4	.....	6 c	0	wsw.	.....	0	0	fair	Robert Johnstone.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	74	23.3	95	se.	.....	.....	3	.....	8 ps	se.	se.	0.070	1.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.37	746.0	29.93	760.2	78	25.6	89	calm	.....	.....	0	.....	9 ks	.....	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	92	ne.	.....	.....	1	.....	8 ks	.....	ne.	0.16	4.1	cloudy	Earl Flint.
York Factory, B. A.	29.90	759.4	29.98	761.5	—34.0	—36.7	.....	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.93	760.2	29.94	760.4	78.4	25.8	87	n.	3.4	1.5	.....	0	4 k	.....	n.	.....	.....	fair	P. Fasiani.
Naôs, Bay of Panama	29.88	759.0	29.95	760.7	73.8	23.2	93	nw.	.....	.....	4	0	1 k	.....	n.	.....	.....	clear	Antonio Fabre.

Vessels with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic																		
S.S. Assyrian Monarch, N. 41° 01', W. 67° 45'						sw.			4		2		sw.	3 h'r	3 h'r	mod.	sw.	hazy.
S. S. Alvo, N. 29° 05' W. 74° 19' *	30.35	770.9	66	18.9		se.			4–5		6	se.	ese.	o	o	light	sse.	fair.
S. S. Alleghany, Norfolk, Va †	30.03	762.7	50	10.0		sw.			5		2		w.	o	o			clear.
Bg. Abbie Clifford, N. 36° 49', W. 71° 10'*†	30.31	769.9				sw.			7		8		sw.	o	o	r'gh	cross	fair.
S. S. Alps, N. 21° 16', W. 74° 13'			81	27.2		ene.			6		6		ene.	rain	rain	h'vy	ene.	
S. S. Circassian, N. 49° 50', W. 42° 22'	29.79	756.7	51	10.6	100	sw.			6		10		sw.			7	ssw.	raining.
S. S. Cienfuegos, N. 38° 59', W. 74° 21'	29.94	760.5	49	9.4		sw.			4		10		sw.	o	o	chop	sw.	cloudy.
S. S. Caracas, N. 25° 48' W. 69° 36' *†	30.31	769.9	73	22.8	81	ene.			6		3		e	o	o	r'gh	e.	fine.
S. S. City of Augusta, Savanah, Ga †	30.23	767.8				wsw.			3		4		w.	o	o			clear.
S. S. Canada, (Br.) N. 40° 27', W. 70° 34'			49	9.4		sw.			5		8?		wsw.	o	o	g'ntle	ssw.	clear?
Bk. Diamant, N. 40° 33', W. 56° 42'	30.35	770.8	51.8	11.0	65	w.			7		5		w.			5	w.	fair.
S. S. Dorian, N 32° 54', W. 34° 33'	29.99	761.7	64	17.8		ne.			6		10		ne	12 h'r	12 h'r	long	ne.	showery.
S. S. Denmark, N. 50° 14', W. 3° 15'	30.26	768.6	51	10.6	78	wsw.			6		8		wsw.	o	o	sl't	w.	cloudy.
S. S. Daniel Steinmann, N. 49° 55', W. 5° 34'†	30.29	769.4	55	12.8	80	w.			6		9		w.	o	o	h'vy	w.	threatening
S. S. France, N. 47° 19', W. 38° 38'*†	30.20	767.0				ssw.			6		8		sw.	light	light	large	wsw.	cloudy.
Bg. Gipsy Queen, Matanzas, Cuba, W. I *†	30.20	767.1				e.			3					o	o	sm'h		fair.
Bk. Ibis, N. 39° 15', W 73° 00'			50	10.0		wsw.			8		10		wsw.	o	o	h'vy	sw.	
Schr. Jas. Slater, N. 35° 20', W. 72° 50' *†	30.33	770.4	65	18.3		ssw.			7		8		wsw.	o	o	h'vy	wsw.	threatening.
S. S. Lord Gough, N. 50° 06', W. 34° 23'*	30.34	770.6	42	5.6		s.			4		10		s.	o	o	mod.	sw.	cloudy.
S. S. Lessing, N. 49° 37' W. 9° 23'	30.40	772.1	55	12.8		wnw.			6		9		wnw.	o	o	r'gh	wnw.	cloudy.
Bg. L. F. Munson, N. 41° 53', W. 67° 05' *†	29.94	760.5	47	8.3		sw.			5		9		w.	o	o	sm'h	sw.	hazy.
S. S. Main, N. 50° 00', W. 3° 40'	30.23	767.8	48.2	9.0		w.			5–6		6		w.	o	o	cross	wnw.	cloudy.
S. S. Mentmore, N. 41° 35', W. 62° 29'						sw.			6		0			o	o	mod.	con	clear.
Schr. Maggie Abbott, N. 23° 00', W. 74° 44' *†	30.20	767.1				ene.			7		4		e.	o	o	h'vy	n.	clear.
Bk. Matthias, N. 33° 15', W. 57° 18' *†	30.48	774.2	61.5	16.4		nne.			3		6		n.	o	o	4	nw.	hazy.
S. S. New York, N. 34° 43', W. 74° 45' *†	30.15	765.8	60	15.6		sw.			6		3		sw.			high	sw	clear
S. S. Nova Scotian, St. Johns, N. F.	29.83	757.7	35	1.7		w.			3		2		w.					fair.
S. S. Nederland, N. 48° 30', W. 38° 21'			51	10.6	93	ssw.			6		10		wsw.	3 h'r	3 h'r	mod	sw.	overcast.
S. S. Nurnberg, N. 51° 28', E. 2° 12'	29.96	761.0	51.8	11.0		w			6		4		w.	o	o	mod.	w.	misty.
S. S. Olbers, N. 40° 00', W. 73° 30	30.01	762.2	41	5.0	91	sw;w			5		10		wsw.			mod.	wsw.	raining.
S. S. Oregon, (Br.) N. 51° 57', W. 7° 04'	30.18	766.6	48	8.9		w.			6		8		w.			mod.	w.	cloudy.
S. S. Pavonia, N. 50° 48', W. 18° 26'	30.61	777.5	52	11.1	79	nw.			4		10		nw.	o	o	long	wnw.	cloudy.
S. S. Picqua, N. 34° 31', W. 24° 05' *†	30.10	764.5	65	18.3	89	ese.			4		10			o	o		var.	cloudy.
S. S. Rhynland, Sandy Hook, N. J.	29.92	760.0	45	7.2	76	w.			5		10		w.	sh'rs	sh'rs	light	w.	overcast.
S. S. Republic, N. 40° 40', W. 69° 24'*†	29.99	761.7	42	5.6		sw.			4		7			o	o	sm'h		misty.
S. S. Romano, N. 44° 27', W. 39° 28'	30.27	768.8	54	12.2		s.			3		3		s.	o	o	mod.	s.	clear
S. S. Rosse, Liverpool, Eng.	29.96	761.0	50	10.0		w.			7		4		w.	o	o	long	w.	squally.
Bk. Rosina, N. 27° 19', W. 62° 15'	30.35	770.9	73	22.8		ne.			4		8		nne.	o	o	mod.	nnw.	cloudy.
S. S. Salier, N. 50° 08', W. 14° 39'*	30.54	775.7				nw.			5		8		w.	o	o	high	nw.	cloudy.
S. S. St. Albans, N. 26° —', W. 78° 30' *	30.30	769.6	70	21.1		ese.			6		1		s.	o	o	sm'h		clear.
Schr. Viola Reppard, Holme's Hole, Mass			44	6.7		ssw.			4		10		ssw.					drizzling.
S. S. Valencia, N. 14° 09', W. 68° 51' †	30.05	763.3	80	26.7	82	ne.			6		5		ene.	o	o	h'vy	ne.	fair.
S. S. Westphalia, Havre, France			46	7.8	68	ne.			4		7		nne.	o	o			fair.
S. S. Andes, N. 18° 35', W. 74° 20' *†	30.15	765.8	82	27.8		ese.			2		1		ese.	o	o			clear.
Bk. Ariadne, N. 30° 38', W. 71° 20'	30.44	773.2	63	17.2		se.			2		3		sse.	o	o	mod.	nw.	fair.
Schr. Annie R Lewis, N. 19° 44', W. 77° 50' †	30.20	767.1	80	26.7		e.			4		1		e.	o	o	long	ese.	clear.
Schr. Arthur Burton, Matanzas, Cuba, W.I†	30.17	766.3				ene.			2		2		ene.	o	o	r'gh	nne.	clear.
U. S. S. Alliance, Port au Prince, Hayti, W.I.	30.08	764.0	75	23.9	85	ne.			1		0			o	o	sm'h		clear.
S. S. Britannic, N. 48° 50' W. 28° 30' *†	30.38	771.6	46	7.8		sw.			2		6		w.	o	o	long	nw.	d. clouds.
S. S. British Princess N. 45° 05' W. 42° 25' †	30.12	765.0	54	12.2		sw.			6		9 ks		sw.	o	o	r'gh	sw.	cloudy.
S. S. Chalmette, N. 26° 46', W. 86° 15' †	30.14	765.5	72	22.2		sse.			5		6		sse.	1 h'r	1 h'r	r'gh	se.	fair.
Schr. Ellen Crusoe, N. 21° 28', W. 71° 33'						ese.							e.	3 h'r	3 h'r			cloudy.
S. S. Gallia, N. 41° 12', W. 61° 20'	30.24	768.1	57	13.9		w.			3		5		w.			mod.	w.	fair.
S. S. Germanic, N. 47° 46', W. 36° 42' *†	30.32	770.1	51	10.6	93	s.			5		8		sw.	o	o	short	s.	fair.
S. S. Grecian, N. 26° 35', W. 19° 39'	30.03	762.7	68	20.0	79	se.			3		0			o	o	sm'h		clear.
S. S. Lord Clive, N. 50° 09', W. 20° 28'	30.54	775.7				nnw.			4		10			o	o	long	nw.	overcast.
S. S. Muriel, N. 24° 50', W. 65° 10'			75	23.9		ene.			4		0			o	o	r'gh	ne.	clear.
S. S. Orinoco, N. 38° 34', W. 71° 34'†	30.12	765.0	54	12.2		sw.			5		7		sw.	o	c	r'gh	sw.	hazy.
Bk. Saga, N. 23° 14', W. 48° 30' *†	30.19	766.7	72.5	22.5		nne.			6		6		n.	½ h'r	½ h'r	r'gh	var.	fair.
S. Storm King, N. 32° 58', W. 37° 27' *†	30.02	762.5				ne.			6		3		ne.	2 h'r	2 h'r	high	n.ne	fine.
S. S. State of Nebraska, N. 50° 52', W. 38° 10'*†	30.29	769.4	52	11.1		s			6		8		ssw.	½h'r	½h'r	mod.	s.	cloudy.
S. S. Samaria, N. 47° 15' W. 36° 30'	30.34	770.6	56	13.3		sse.			6		8		s.	o	o	mod.	s.	cloudy.
S. S. Salerno, Hull, Eng †	29.90	759.4	48	8.9		w.			4		10		w.	o	o			hazy.
S. S. St. Laurent, N. 49° 56', W. 27° 20'	30.40	772.1	48.2	9.		nw.			2		10		nw.	o	o	large	nw.	cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W. I*	30.13	765.3	73	22.8	81	calm			0		0					sm'h		clear
U. S. S. Tennessee, Port au Prince, Hayti, W. I	30.11	764.8	74	23.3	90	e.	2	0.9			1			o	o			clear.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I.	30.03	762.7	78	25.5	76	ne.			1		0							clear.
S. S. Weser, N. 49° 19', W. 9° 10'	30.49	774.4	50.9	10.5		nw.			5		9		nnw.	1 h'r	1 h'r	long	wnw.	fair.
S. S. Wyoming, N. 42° 39', W. 58° 16'	30.23	767.8	40	4.4		w.			5		3		w	4 h'r	4 h'r	h'vy	sw.	fair
S. S. Westernland, N. 48° 04', W. 33° 04'	30.48	774.2	49	9.4		sse.			4		10		se.	o	o	long	nnw.	overcast.
U. S. Navy Yard, Portsmouth, N.H.			32	0.0	90	calm					10		w.	o	o			cloudy.
U. S. S. Kearsarge, Genoa, Italy	30.33	770.4	54	12.2	61	calm			0		0?							fair.?
U. S. S. Lancaster, Villefranche, France	30.38	771.6	58	14.4	76	sw.			1		0			o	o	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	29.94	760.5	38	3.3	100	sw.			4		10					sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.28	769.1	52	11.1	79	ene.			1		0					sm'h		clear.
U. S. S. Shenandoah, N. 30° 29', W. 33° 48'*	29.88	758.9	64	17.8	89	ene.			6		5					mod.	ne.	fair.
U. S. S. Trenton, Marseille, France	30.42	772.7	54	12.2	74	wnw			1		0					sm'h		clear.
H. M. S. Alexandra, Malta, Mediterranean	30.31	769.9	64	17.8	62	ene.			2		4	ene.						d. clouds.
H. M. S. Alecto, N. 5° 07', W. 1° 04'	29.86	758.4	81	27.2		ne.			1		10					4	s.	misty.
H. M. S. Comus, N. 5° 10', W. 22° 00'	29.98	761.5	80	26.7	78	nne.			3		5	nne.				2	ene.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.43	772.9	60	15.6	71	se.			2		3	wsw.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.46	773.7	63	17.2	75	ssw.			4–6		7	e.						misty.
H. P. M. S. Douro, Fernando Po, W. Africa	29.92	760.0	86.0	30.0	78	n.			1		8		sw.	o	o			d. clouds.
S. S. Ohio, (Am.) N 51° 08', W. 13° 40'			48	8.9	92	nw.			4		9		nw.	o	o	r'gh	nw.	cloudy.
S. S. Pennsylvania, N. 45° 10', W. 50° 59'			37	2.8	100	wsw.			6		10			o	o	h'vy	nw.	overcast.
S. S. Polynesian, off Inishowen, Ireland	29.89	759.2	42	5.6		nnw.			5		6		nnw.	o	o	long	wsw.	cloudy.
S. S. Scandinavian, N. 54° 53', W. 11° 45'	29.90	759.4	40	4.4		nnw.			8		7		wnw.	rain	rain	high	con	showery.
S. S. Wisconsin, N. 49° 04', W. 38° 05'	30.17	766.3	52	11.1		s.			6		8		wsw.	o	o	r'gh	wsw.	squally.
S. S. Bohemia, Hamburg, Germany						sw.			4		8			o	o			cloudy.
S. S. Frisia, N. 41° 27', W. 66° 38'			48	8.9		ssw.			5		9		w.	o	o	sm'h	w.	covered.
S. S. Archimedes, (Br.) N. 34° 14' W. 67° 47'	30.40	772.1				sw.			3		8		sw.	o	o	mod.	wnw.	cloudy.
S. S. Hevelius, Antwerp, Belgium *†	30.05	763.3	40	4.4		ssw.			6		9		wsw.	o	o			cloudy.
S. S. Archimede, (It.) N. 36° 16', W. 11° 28' †	30.49	774.4	66	18.9		ese.			4		2		ese.	o	o	h'vy	ese.	clear.
S. S. Texas, N. 39° 32, W. 16° 26'*†	30.32	770.1	58	14.4	100	sse.			3		7		se.	o	o	high	se.	cloudy.
S. S. Erin, London, Eng	30.08	764.0	48	8.9		sw.			4		5		wsw.	o	o			fine.
S. S. America, N. 37° —', W. 74° 05'*	30.16	766.1	45	7.2	84	sw.			6		6		sw.	o	o	mod.	sw.	fair.
S. S. Habsburg, N. 48° 16', W. 38° 28'	30.27	768.8				s.			6–7		10		sw.	2 h'r	2 h'r	cross	ssw.	covered.
S. S. Strassburg, N. 9° 37', W. 27° 42'	30.06	763.5			75	nne.			3		7			3 h'r	3 h'r	2	ne.	fair.
S. S. Waesland, N. 49° 21', W. 26° 10'			47	8.3		sw.			3		4		wnw.	o	o	h'vy	nw.	fair.
S. S. W. A Scholten, N. 50° 08', W. 23° 52'			53.2	11.8	94	s.			5		9		sw.	o	o	3	sw.	squally.
S. S. State of Nevada, N. 40° 41', W. 69° 29'			46	7.8		sw.			4		8		wsw.	5 h'r	5 h'r	mod.	ssw.	cloudy.
S. S. Saxon, Boston, Mass			38	3 3		wsw.			1		10							threatening
S. S. Celtic, N. 50° 20' W. 21° 50'			57	13.9		nw.			3		10		nw.	o	o	h'vy	n.	cloudy.
S. S. Marengo, N. 41° 33', W. 53° 15'			50	10.0		wnw.			6		3?		wnw.	3 h'r	3 h'r	high	nw.	cloudy?

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
Bg. Alcira, N. 32° 34′, W. 70° 00′	30.37	771.4	61	16.1	.....	s.	.....	.....	2	.....	8	.....	sw.	0	0	cross	var.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.45	773.4	59	15.0	70	ese.	.....	.....	4	.....	3	.....	.....	0	0	.....	.....	fair.
Bgt. Achsah, N. 44° 05′, W. 67° 45′ †	29.88	758.9	43	6.1	.....	sw.	.....	.....	6	.....	10?	.....	sw.	1 h'r	1 h'r	rg'h	sw.	fair.?
Bk. Bayonnaise, N. 24° 45′, W. 62° 25′†	30.23	767.8	75.2	24	.....	ene.	.....	.....	4	.....	5	.....	ene.	2 h'r	2 h'r	h'vy	n.	squally.
Bk. Chas. Stewart, N. 2° 30′, W. 26° 30′ *†	30.03	762.7	82	27.8	.....	se.	.....	.....	3	.....	10	.....	n.	hv'y	hv'y	long	ne.	cloudy.
Schr. Clotilde, N. 26° 14′, W. 85° 51′†	30.12	765.0	76	24.4	.....	se.	.....	.....	2	.....	8	.....	se.	½ h'r	½ h'r	cross	e;se.	cloudy.
Bk. Celestina, Cadiz, Spain *†	30.48	774.2	.....	.....	.....	e.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. C. S. Bushnell, N. 35° 4′, W 2° 00′	30.43	772 9	.....	.....	.....	ne.	.....	.....	5	.....	5	.....	ne.	0	0	r'gh	ne.	
S. E. J. Spicer, Liverpool, Eng	29.98	761.5	44	6.7	92	wnw.	.....	.....	7	.....	7	.....	wnw.	8 h'r	8 h'r	.....	.....	fair.
S. E. B. Sutton, N. 30° —′, W. 42° 45′ *†	30.19	766.8	66	18.9	84	n.	.....	.....	6	.....	5	.....	n.	0	0	h'vy	var.	squally
S. Hedwig, N. 35° 52′, W. 6° 38′	30.41	772.5	60.1	15.6	92	ene.	.....	.....	6	.....	1	.....	.....	0	0	3	ene.	fine.
Bk. Heinrich & Tonio, N. 41° 53′. W 36° 50′ *†	30.48	774.2	56.5	13.6	72	ese.	.....	.....	3	.....	5	.....	ese.	0	0	mod	var.	fair.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.14	765.5	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	foggy.
S. Henry, N. 41° 15′, W. 48° 42 *	30.12	765.0	50.0	10.0	.....	nw.	.....	.....	6	3 c	.....	.....	.....	.....	.....	6	sw.	hazy.
Bg. John Wesley, Havana, Cuba	.....	.....	.....	.....	.....	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. John L. Thomas, Hobbies Cays, C. A†	29.96	761.0	77	25.0	82	ene.	.....	.....	5	.....	3	.....	e.	½ h'r	½ h'r	hv'y	ene.	fair.
Bg. L. & W. Armstrong, N. 19° 15′, W. 58° 25′†	30.16	766.1	.....	.....	.....	e	.....	.....	5	.....	1	.....	ese.	0	0	mod.	ese.	clear.
S. S. Madrid, N 37° 05′, E. 1° 43′†	30.47	773 9	64	17.8	83	ne.	.....	.....	5	.....	2	.....	ne.	0	0	mod.	ne.	fair.
S. S. P. de Satrastegui, Havana, Cuba	30.18	766.6	.....	.....	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Rosalie, N. 27° 55′, W. 42° 03′	.....	.....	.....	.....	.....	n.	.....	.....	7	.....	2	.....	nne.	1 h'r	1 h'r	high	ne.	clear.
S. Salisbury, N. 35° 01′. W. 10° 08′	.....	.....	62.8	17.1	82	e.	.....	.....	4	.....	4 k	.....	e.	0	0	long	nw;e.	fair.
Bk. Tuck Sing, N. 20° 19′, W 73° 26′*†	30.14	765.5	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	e.	2 h'r	2 h'r	sm'h	.....	clear.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.96	761.0	65	18.3	89	sse.	.....	.....	2	.....	2	.....	calm	.....	.....	sm'h	.....	clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.86	758.4	69.5	20.8	85	se.	.....	.....	6	.....	6	.....	.....	.....	.....	3	se.	d. clouds.
H. M. S. Boadicea, S. 24° 28′, E. 5° 44′	30.05	763.3	73	22.8	.....	ene.	.....	.....	1	.....	4	ene.	.....	.....	.....	2	ese.	d. clouds.
H. M. S. Opal, S. 6° 17′, E. 12° 11′	29.91	759.7	81	27.2	87	sse.	.....	.....	2	.....	4	sse.	.....	.....	.....	2	sse.	d. clouds.
H. M. S. Tyne, S. 18° 13′, W. 2° 57′	30.00	762.0	73	22.8	90	ese.	.....	.....	4	.....	9	ese.	.....	.....	.....	2	ese.	d. clouds.
S. S. Sirius, Rio de Janeiro, Brazil	29.97	761.2	.....	.....	.....	calm	.....	.....	0	.....	2	.....	nw.	0	0	.....	.....	clear.
Bg. Daphne, S. 2° 21′, W. 34° 25′*†	29.90	759.4	81	27.2	78	ese.	.....	.....	4	.....	1	.....	se.	0	0	sm'h	se.	clear.
Bk. Horace Scudder, S. 6° 57′. E. 3° 12′*†	30.11	764.8	78	25.6	.....	s.	.....	.....	1	.....	10	.....	s.	0	0	light	s.	cloudy.
Bkt. Levanter, S. 3° 52′, W. 32° 11′*	29.98	761.5	84	28.9	.....	se.	.....	.....	4	.....	2	.....	ese.	0	0	mod.	se.	fair.
S. Parker M. Whitmore, S. 13° 48′, W. 26° 31′*†	30.02	762.5	81	27.2	.....	e.	.....	.....	4	.....	2	.....	e.	0	0	sm'h	.....	clear.
S. St. David, S. 55° 40′, W. 61° 49′ *†	29.92	760.0	49	9.4	78	nne.	.....	.....	5	.....	4	.....	var.	0	0	light	nne.	hazy.
S. David Stewart, Pernambuco, Brazil.†	29.83	757.7	86	30.0	.....	ese.	.....	.....	6	.....	3	.....	se.	0	0	.....	.....	
Bk. Godeffroy, S. 57° 22′, W. 68° 36′	29.50	749.3	46.6	8.1	98	ene.	.....	.....	2-3	.....	10	.....	.....	.....	.....	mod.	v-	misty.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.21	767.3	32.5	0.3	59	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Adams, Sitka, Alaska†	29.58	751.3	39	3.9	91	e.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Alert, N. 16° 42′, W. 165° 42′	29.96	761.0	74	23.3	72	n.	.....	.....	4	.....	2	.....	.....	.....	.....	mod	ne.	clear.
U. S. S. Essex, Canton, China	30.19	766.8	59	15.0	82	nnw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	raining.
U. S. S. Juniata, Shanghai, China	30.28	769.1	50	10.0	79	sse.	.....	.....	2	.....	10	.....	wsw.	0	0	.....	.....	cloudy.
U. S. S. Monocacy, Shanghai, China	30.28	769 1	50	10.0	72	sse.	.....	.....	2	.....	10	.....	sw.	.....	.....	.....	.....	cloudy.
U. S. S. Ranger, Gulf of Fonseca, Honduras	30.00	762.0	76	24.4	77	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
H. M. S. Richmond, Shanghai, China	.....	.....	50	10.0	86	se.	.....	.....	3	.....	10	.....	se.	0	0	.....	.....	cloudy.
H. M. S. Audacious, Hong Kong, China	30.16	766.1	63	17.2	83	e.	.....	.....	1	.....	10	.....	e.	.....	.....	.....	.....	overcast.
H. M. S. Cleopatra, off Amoy, China	30.15	765.8	62	16.7	77	e.	.....	.....	2	.....	1	calm	.....	.....	.....	sm'h	.....	blue sky.
H. M. S. Champion, Woosung, China	.....	.....	48	8.9	85	se.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. P. M. S. Tamega, acao China	30.21	767.4	64.4	18.0	80	n	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Newbern, N. 30° 54′, W. 116° 28′*†	30.20	767.1	61	16.1	40	nw.	.....	.....	4	.....	0	.....	.....	0	0	small	wnw.	clear.
S. S. Oceanic, N. 33° 56′, E. 148° 17′	30.29	769.4	51	10.6	79	n.	.....	.....	3	.....	5	.....	wnw.	0	0	4	w.	fair.
S. S. Columbia, N. 41° 03′, W. 124° 34′ *†	30.44	773.2	49	9.4	78	ese.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	ese.	clear.
S. S. Oregon, San Francisco, Cal†	30.54	775.7	47.5	8.6	74	nne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Alameda, San Francisco, Calf†	30.48	774.2	47	8.3	85	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Ancon, Pigeon Point, Calf	30.42	772.7	50	10.0	58	nw.	.....	.....	3	.....	0	.....	.....	0	0	mod	wnw.	clear.
S. S. City of Chester, Eureka, Cal. †	30.46	773.7	43	6.1	92	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	
S. S. Orizaba, N. 35° 15′, W. 120° 50′†	30.36	771.1	59	15.0	82	ne.	.....	.....	3	.....	0	.....	.....	0	0	mod.	sw.	clear
S. S. Queen of the Pacific, San Francisco, Cal.†	30.47	773.9	46	7.8	84	nw.	.....	.....	1	.....	0	.....	.....	0	0	long	.....	clear.
S. S. State of California, Portland, Oregon†	30.43	772.9	33	0.6	89	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	foggy.
S. S. City of Pekin, N. 36° 40′, E. 148° 23′†	29.98	761.5	44	6.7	84	nw.	.....	.....	7	.....	8	.....	nw.	.....	.....	lr'vy	nw.	snowy.
S. S. Colima, N. 17° 57′, W. 102° 41′†	29.98	761.5	72	22.2	90	nnw.	.....	.....	4	.....	0?	.....	.....	0	0	small	sw.	fair?
S. S. Granada, N. 14° 42′, W. 92° 43′†	29.97	761.2	78	25.6	86	ne.	.....	.....	1	.....	0	.....	.....	0	0	light	.....	clear.
S. S. Benalder, Singapore, Malay Pen*	29.96	761.0	82	27.8	83	ne.	.....	.....	1-3	.....	6	.....	ne.	3 h'r	3 h'r	sm'h	.....	fair.
S. S. Radnorshire, Singapore, Malay Pen	.....	.....	.....	.....	.....	nne.	.....	.....	5	.....	10	.....	ene.	0	0	.....	.....	cloudy.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 28° 23′, W. 74° 04′	30.02	762.5	65	18.3	100	s.	.....	.....	5	.....	0	.....	.....	.....	.....	mod.	s.	clear.
U. S. S. Iroquois, Talcahuano, Chili	29.94	760.5	61	16.1	82	ssw.	.....	.....	2	.....	1	.....	ssw.	.....	.....	sm'h	.....	clear.
U. S. S. Lackawanna, S. 29° 05′, W 73° 30′	30.03	762.7	65	18.3	78	s.	.....	.....	4	.....	0	.....	.....	.....	.....	mod.	s.	clear.
U. S. S. Onward, Callao, Peru*†	30.06	763.5	66	18.9	89	s.	.....	.....	2	.....	10	.....	sse.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru *†	30.14	765.5	65	18.3	94	sse.	.....	.....	1	.....	10	.....	s.	.....	.....	sm'h	.....	overcast.
H. M. S. Diamond, S. 36° 28′, E 151° 20′	30.03	762.7	70	21.1	80	n.	.....	.....	2	.....	8	nnw.	.....	.....	.....	3	n.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.97	761 2	59	15.0	82	sw.	.....	.....	2	.....	4	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.91	759.7	62	16.7	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	30.00	762.0	53	11.7	?	s.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.45	748.0	50.7	10.4	93	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Australia, S. 31° 43′, E. 179 02′	30.08	764.0	70	21.1	.....	se.	.....	.....	4	.....	2	.....	s.	0	0	sm'h	se.	clear.
S. S. City of Sydney, S. 22° 47′. W. 174° 43′*†	29.81	757.2	78	25.6	82	se.	.....	.....	4	8 ck	s.	se.	.....	.....	.....	mod.	se.	cloudy.
Bk. Alpheus Marshal, S. 0° 32′, E. 108° 59′ *†	29.65	753.1	81	27.2	87	nw.	.....	.....	2	.....	10	.....	nw.	4 h'r	4 h'r	light	var.	cloudy.
S. S. George S. Homer, S. 23° 21′, W. 122° 11′*†	30.19	766.8	.....	.....	.....	e.	.....	.....	3	.....	2	.....	ese.	1 h'r	1 h'r	long	sse	clear.
S. Ismir, Iquique, Peru*	30.20	767 1	.....	.....	.....	s.	.....	.....	2	.....	4	.....	s.	0	0	long	ssw.	fair.
S. St. Francis, S. 34° 00′, W. 80° 50′*†	30.35	770.9	66	18.9	79	nw.	.....	.....	3	.....	2	.....	nw.	0	0	long	wsw.	clear.
S. S. Grecian, S. 20° 50′, W. 127° —′†	30.21	767.3	80	26.7	78	ese.	.....	.....	6	.....	4	.....	ese.	1 h'r	1 h'r	mod.	se.	clear.
S. Henry Falling, S. 26° 42′, W. 126° 15′ *†	30.10	764.5	80	26.7	91	se.	.....	.....	3	.....	2	.....	se.	0	0	long	s.	fine.
H. M. S. Espiegle, S. 44° 42′, E. 172° 05′	29.80	756.9	56	13.3	94	ene	.....	.....	3	.....	6	w.	.....	.....	.....	2	s.	d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Hellville, Nos Beh Islands, Africa	29.91	759.7	82	27.8	79	wsw.	1	0.4	.....	.....	10	.....	w.	0.50	12.7	sm'h	.....	cloudy.
U. S. S. Pensacola, S. 16° 27′, E. 63° 30′*	29.86	758.4	82	27.8	75	ese.	.....	.....	4	.....	8	.....	calm	light	light	mod.	e.	cloudy.
H. M. S. Coquette, N. 15° 36′, E. 39° 21′	30.04	763.6	76	24.4	82	calm	.....	.....	0	.....	10	.....	.....	.....	.....	sm'h	.....	overcast.
H. M. S. Euryalus, Suakin, Egypt	30.05	763.3	77	25.0	73	n.	.....	.....	3	.....	7	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Orontes, N. 1° 18′, E. 57° 28′	29.93	760 2	79	26.1	100	n.	.....	.....	3	.....	3	s.	.....	.....	.....	1	n.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.85	758.2	82	27.8	83	ene.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Galatia, N. 9° 43′, E. 60° 14′ †	.....	.....	82	27.8	79	ne.	.....	.....	4	.....	2	ne.	.....	.....	.....	4	ne.	squally.
S. S. Port Phillip, N. 10° 07′, E. 54° 28′*	29.95	760.7	80	26.7	87	ne.	.....	.....	3	.....	4	.....	ne.	.....	.....	mod.	ne.	fair.
S. Carondelet, S. 17° 32′, E. 115° 22′*†	29.99	761.7	78	25.6	.....	ne.	.....	.....	3	.....	.....	.....	.....	.....	.....	mod.	ne.	clear.
S. S. Lepanto, Bombay, India	29.86	758.4	.....	.....	.....	sw.	.....	.....	2	.....	2	.....	sw.	0	0	sm'h	ssw.	clear.
H. M. S. Magpie, N. 8° 29′, E. 97° 39′	30.03	762.7	80	26.7	.....	nne.	.....	.....	2	.....	7	.....	ne.	0	0	.....	.....	fair
	29.93	760.2	80.7	27.1	78	wnw.	.....	.....	1	.....	3	.....	.....	.....	.....	2	ne.	d. clouds.

International Chart I. January 11, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 12, 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.39	771.8	61.2	16.2	85	w.			1		0			0.362	9.2	clear	Roziere.
Algiers			30.38	771.6	55.4	13.0	77	wnw.			4		7			0.024	0.6	very cloudy.	Aubert.
La Galle			30.30	769.5	56.5	13.6	87	nnw.			2		4			0	0	cloudy	Fonfrède.
Tunis			30.29	769.4	58.3	14.6	68	nw.			5		3			0	0	pretty fair	Delord.
Tebessa					54.5	12.4	79	n.			3		2			0	0	fair	Hans.
Geriville					43.2	6.2	74	ne.			2		3			0.047	1.2	pretty fair	Forfert.
Laghouat			30.37	771.5	50.4	10.2	74	calm			0		0			0.102	2.6	clear	Abrahami.
Biskra			30.29	769.4	55.0	12.8	38	n.			1		3			0	0	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			29.87	758.7	87.7	30.9	26	se	9	4.0			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.94	760.5	30.13	765.3	52	11.1	80	w.			1		4		wnw.	0	0	fair	Com. I. Short, R.N.
Melbourne, Victoria	29.91	759.7	30.00	762.0	62.5	16.9	87	wsw.	9	4.0			0			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747.1	29.99	761.7	34.7	1.5	72	nw.			3		10			0.008	0.2		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.89	733.8	29.68	753.9	33.1	0.6	92	w.	15.0	6.7			10			0.134	3.4		Dr. Wierzbiski
Eperies	28.86	733.0	29.77	756.2	31.6	— 0.2	89	se.			2		9			0	0	foggy	Julius Mikolik.
Gratz	28.71	729.2	30.00	762.0	39.6	4.2	35	wnw.			7		1			0	0		Andreas Rospini.
Hermannstadt	28.37	720.5	29.82	757.4	41.2	5.1	94	sw.			3		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.69	728.6	30.09	761.2	33.8	1.0	81	w.			5		10			0.354	9.0	cloudy	The Staff.
Lemberg	28.63	727.3	29.65	753.1	34.7	1.5	72	w.			3		3			0.067	1.7		Dr. T. Stanecki.
Pola	29.83	757.7	29.94	760.5	42.4	5.8	82	wsw.			5		10			0	0		I. R. Hydrographic Office.
Szathmar	29.34	745.1	29.82	757.4	33.6	0.9	80	sw.			2		5			0.004	0.1		Joseph Midlinszky, S. J
Szegedin	29.65	753.1	29.94	760.5	37.9	3.3	93	w.			1		10			0	0		Karl Stancel.
Trieste	29.89	759.1	29.98	761.6	47.1	8.4	49	ne.			3		8			0	0		Royal Academy.
Vienna	29.20	741.6	29.94	760.4	47.8	3.2	66	w.			7		1			0.150	3.8		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.78	730.9	30.22	767.5	35.2	1.8	100	sw.			2		4			0.118	3.0		
Brussels	30.09	764.3	30.30	769.6	41.9	5.5	78	wnw.			3		8		var.	0.020	0.5		
Furnes	30.30	769.5	30.32	770.0	43.3	6.3	76	nw.			2		1			0.024	0.6		
Maeseyck	30.10	764.6	30.23	767.8	43.2	6.2	76	nw.			1		7			0.102	2.6		
British.																			
Aberdeen	30.12	765.0	30.22	767.6	41.7	5.4	74	wnw.	18	8.0			3			blank	blank	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			30.42	772.7	44.2	6.8	82	wnw.	5	2.2			2					blue sky	John Hartnup.
Bolton, Sharples	29.86	758.4	30.42	772.7	41.5	5.3	89	wnw.	12	5.4			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.96	761.0	30.36	771.1	41.5	5.3	79	nw.			3		2			0.03	0.8	blue sky	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.02	762.5	30.06	763.5	80.	26.7	74	ne.			2		6					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	30.28	769.1	30.40	772.1	38.4	3.6	88	nw.			0.6		2			blank	blank	d. clouds	John McLaren.
Chatham, School M. E.	30.22	767.6	30.40	772.1	42.1	5.6	76	nw.			1		0					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.35	770.9	30.59	777.0	46.2	7.9	69	nw.			3		8					d. clouds	The Staff.
Fort Napier, Natal	27.63	701.8	29.94	760.5	80.0	26.7	93	ne.			1		4					blue sky	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	86	30.0	65	w.			1		1					d. clouds	J. W. Smith.
Galway, Queen's College	30.52	775.2	30.56	776.2	40	4.4	91	w.			1		3			0.01	0.3	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.29	769.4	30.34	770.6	62.6	17.0	91	e.			2		5					d. clouds	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	30.24	768.1	30.41	772.4	41.6	5.3	78	nw.			5		3					blue sky	The Staff.
Guernsey	30.22	767.6	30.52	775.2	46.0	7.8	69	nw.			1		3			blank	blank	blue sky	A. Collenette, F.R.M.S.
Kew, Observatory	30.40	772.1	30.44	773.2	41.7	5.4	72	nw.	12	5.4			1					blue sky	The Staff.
Leicester, Museum	30.15	765.8	30.42	772.7	43.6	6.4	72	nw.			2		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.92	760.0	30.00	762.0	57.2	14.0	84	se.			2		6			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.19	766.8	30.23	767.8	72.0	22.2	91	se.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.21	767.3	30.44	773.2	43.0	6.1	77	w.			4		2					blue sky	The Staff.
Plymouth	30.46	773.7	30.54	775.7	46.5	8.1	80	nw.			1		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.04	763.0	30.14	765.5	42.1	5.6	96						10					raining	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.87	758.7	29.94	760.5	49.2	9.6	69	sw.			3		6					d. clouds	W. H. Lyne.
Sheffield	30.12	765.0	30.41	772.4	43.5	6.4	80	nw.			2		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.37	771.4	30.40	772.1	42.8	6.0	87	nw.			3		6			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.41	772.4	42.2	5.7	83	nw.	15	6.7			6					d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					43.5	6.4	76	nw.			2.5		1			blank	blank	blue sky	Rev. O. H. Griffiths, F.M.S
Valencia, Observatory	30.62	777.7	30.65	778.5	48.1	8.9	81	sw.	3	1.3			4			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.69	754.1	30.08	764.0	57.9	14.4	74	w.	3.1	1.4		0	8 k		w.	0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.03	762.7	30.07	763.8	8.0	—13.3		calm	0	0		0	1 k			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.95	760.7	17	— 8.3	85	ne	12	5.4		0	0			0.210	5.3	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.98	761.5	30.05	763.3	4	—15.6	83	nw.	4	1.8		0	0			0.06	1.5	clear	G. A. Blair.
Cornwall, Ontario	29.92	760.0	30.14	765.5	— 8.2	—23.3	100	w.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.02	762.5	30.07	763.8	0.5	—17.5		calm			0	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.08	764.0	30.11	764.8	— 3	—19.4	87	ne.	1	0.4		0	5 s		calm	0.10	2.5	clear	J. McWilliams.
Fort Garry, Manitoba*	29.07	738.4	30.02	762.5	—10	—23.3	78	s.	1	0.4			10 n			0	0	hazy	James Stewart.
Fredericton, N. B.	30.01	762.2	30.08	764.0	7.1	—13.8	86	n.	2	0.9		0	s			0.020	0.5	d. clouds	Prof. Thos. Harrison
Grand Manan, N. B.	29.98	761.5	30.04	763.0	13	—10.6	83	n.	24	10.7		2 k	5 s		n.	0.32	8.1	fair	J. Chipman Seeley
Granton, Ontario	28.86	733.0	30.05	763.3	12.6	—10.8	94	calm	0	0			10 n			inap.	inap.	overcast	Jas. Grant.
Halifax, N. S*	29.82	757.4	29.95	760.7	29	— 1.7	70	nw.	9	4.0		8 k	0		n.	0.45c	11.4	cloudy	A. Allison.
Hamilton, Ontario	29.58	751.3	30.02	762.5	19.2	— 7.1	85	sw.			1	8 ck	0		sw.	0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.77	756.1	30.14	765.5	3	—16.1	79	e.	1	0.4			10 ks		calm	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.85	758.2	29.90	759.4	25.5	— 3.6	91	n.	4	1.8		5 k	0		n.	0	0	fair	O. H. Rigby.
London, Ontario	29.06	738.1	30.04	763.0	15.0	— 9.4	86	s.			1		10 n			0.20	5.1	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.35	694.7	29.63	752.6	39	3.9	96	s.	45	20.1		10 cs	0			0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	27.80	706.1	29.88	758.9	9	—12.8	96	nw.	5	2.2			10 s		nw.	0	0	cloudy	Rev. J. M. Wellwood
Montreal, Quebec*	29.92	760.0	30.15	765.8	— 2	—18.9	79	n.	2	0.9			10 s			0.05	1.3	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.89	759.2	30.10	766.1	—16.8	—27.1	80	w.					10 s			inap.	inap.	overcast	A. McCill, M. A.
Parry Sound, Ontario*	29.23	742.4	29.98	761.5	12	—11.1	83	se.	17	7.6			10 n		se.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.28	743.7	30.08	764.0	14.6	— 9.7	72	e.			1		10 k			0.040	1.0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.20	741.7	29.99	761.7	— 2	—18.9	65	nw.	8	3.6		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.28	743.7	30.02	762.5	19	— 7.2	84	s.	6	2.7		10 c	0		sw.	0	0	cloudy	H. Morgan
Port Stanley, Ontario	29.33	745.0	30.03	762.7	18	— 7.8	84	sw.	12	5.4			8 k		sw.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	27.21	691.1	29.57	751.1	18	— 7.8		calm	0	0		10 s			calm	0	c	cloudy	Leslie Gordon.
Quebec, Quebec*	29.72	754.9	30.12	765.0	— 5	—20.6	87	calm	0	0		10 c	0		w.	0.20	5.1	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	29.59	751.6	30.11	764.8	—10	—23.3	90	e.	5	2.2			10 n			0	0	threatening.	W. H. McIntyre.
St. Andrews, N. B.	29.99	761.7	30.04	763.0	12	—11.1	78	n	8	3.6		0	0			0.06	1.5	clear	
St. John, N. B	29.86	758.4	30.02	762.5	15.5	— 9.2	91	nw.	12	5.4		2 k	2 k		nw.	0.182	4.6	fair	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			29.76	756.0	36.7	2.6		sw.			2								The Commandant.
Saugeen, Ontario*	29.19	741.4	29.97	761.2	12	—11.1	91	s.	7	3.1			10 s			0.30	7.6	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
Stratford, Ontario																			W. Mc Bride, M. A.
Sydney, C. B*	29.80	756.9	29.87	758.7	29	— 1.7	77	n.	8	3.6		10 cs	0	sw.		0.35	8.9	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.64	752.8	30.05	763.3	17	— 8.3	76	sw.	5	2.2			10 ks		sw.	0.02	0.5	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.86	733.0	30.01	762.2	13.5	—10.3	81	n.	2	0.9			10 s					snowy	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.90	759 4	29.97	761.2	27	— 2.8	84	n.	8	3.6		5 ck	2 k	w.	w.	0.64	16.3	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.86	758.4	29.89	759.2	69.5	20.8	92	ne.				0	7 k			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.88	758 9			78.5	25.8	49	ne.				4 c;ck	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4			70	21.1	50									0.08	2.0		J. T. Eustace
Chilian.																			
Coquimbo	29.87	758.6	29.95	760.6	63.5	17.5	85	n.			4	10	0					cloudy	Samuel Redolez.
Iquique																			Rafael Moreno.
Niebla	29.56	750.7	29.66	753.4	65.8	18.8	75	e.			1	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.85	758.2	29.94	760.4	65.1	18.4	86	nw.			3	8 n	0	nw.				fair	Manuel Tobar.
Punta Corona	29.90	759.5	30.09	764.2				e.			1	0	0			0	0	clear	Francisco Alvarado.
Valparaiso	29.67	753.6	29.81	757.1	67.1	19.5	81	e.				0	0					clear	Paez-l-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.30	769.5	30.32	770.1	42.8	6.0	77	wnw.	4.0	1.8			0			0	0		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.56	750.8	29.61	752.0	37.0	2.8	67	nw.	20	9			0						Oversergent Fischer.
Fanöe	29.82	757.3	29.84	757.8	36.5	2.5	82	nw.			6		5						Overloerer Lauridsen.
Godthaab, Greenland	29.31	744.5	29.35	745.6	22.6	— 5.2		ssw.			4		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.56	750.8	29.60	751.9	38.5	3.6	88	sw.			2		10					raining	A. O. Thoriacius.
Thorshavn	30.06	763.4	30.08	764 0	35.6	2.0	91	calm	0	0			10						Overloerer Bergh.
Vestervig	29.70	754.4	29.80	756.8	37.2	2.9	90	wnw.			4		3						Loerer Oesterbol.
Egyptian.																			
Cairo	29.97	761.3			66.2	19		e.	3.8	1.7		0	4 ks			0	0		Albert Ismailun.
French.																			
Agen, Normal School	29.89	759.1	30.52	775.1	44.2	6.8	80	nw.			2		n		s.	0	0	misty	M. Labroue, Director.
Alençon, Normal School	29.94	760.4	30.49	774.4	41.0	5	90	sw.			1		2 kn			0	0	slightly cl'dy	M. Nicot, Director.
Arras, Normal School			30.32	770.0	41.4	5.2	88	nw.			4		2	nw.	nw.	0.020	0.5	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	30.12	765.0	30.20	767.0	47.8	8.8	50	nnw.			6				nw.	0	0		M. Giraud, Director.
Bar-sur-Seine	29.83	757 6	30.42	772 6	37.9	3.3	89	ne.			1		8		nw.	0	0	very cloudy	M. Saillard, Director
Beauvais, Normal School	30.15	765.8	30.43	772.9	41.5	5.3	69	nw.			1		2		nw.	0.028	0.7	slightly cl'dy	M. Frère Eugène Martè.
Besançon, Normal School	29.44	747.7	30.36	771.2	39.6	4.2	83	ssw.			1		n		se.	0	0		M. Gobin, Director.
Bordeaux, Observatory	30.25	768.3	30.52	775.1	47.3	8.5	71	n.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.89	759 1	30.46	773.7	43.7	6.5	71	nnw.			1		k		nnw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	30.36	771.1	30.60	777.2	48.2	9.0	76	nne.			2		8		nne.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.36	771.1	30.44	773 1	45.7	7.6	100	nw.			1		5		nw.	0.020	0.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	30.02	762.5	30.35	770.9	39.6	4.2	83	wsw.			1		5			0.055	1.4	cloudy	M. Jadot, Director.
Charleville, Normal School	29.80	757.0	30.32	770.2	36.1	2.3	82	sw.			2					0.08	2.		M. Noël, Director.
Clermont-Ferrand Obs'y	29.02	737.0	30.43	772.8	42.3	5.7	57	nw.			2		8		nnw.	0	0		M. Alluard, Director.
Cluny, Normal School	29.51	749.5	30.39	771.9	41.9	5.5	64	n.			1		8	n.	n.	0	0		M. de Villemontée, Dir.
Cominercy, Normal School	29.48	748.8	30.37	771 5	36.1	2.3	87	wnw.			4		10 ns	wnw.	wnw.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.83?	706.9?	30.41?	772.3?	46.6	8.1	30	w.			1		1 k		w.	0	0		M. Jarach, Director.
Gréasque, du Rhone	28.90	734.1	30.06	763.5	45.1	7.3	46	nw.			8		5		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.47	748.6	30.25	768.7	44.2	6.8	97	nnw.			4		n		nnw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.83	732.3	30.47	774.0	37.4	3	89	ne.			1		10 n		ne.	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.95	760.7	30.55	775.0	48.6	9.2	56	nne.			1		10			0.126	3.2	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.48	774.2	30.58	776.8	47.5	8.6	65	nw.			1		8	nw.	nw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.28	743.7	30.38	771 6	41.5	5.3	56	n.			6		8 kn		n.	0.008	0.2	very cloudy	M. André, Director.
Mans, Normal School	30.17	766.4	30.49	774.5	43.2	6.2		ne.			6		2 k		ne.	0	0	slightly cl'dy	M. Richard, Director
Marseille, Observatory	29.77	756.1	30.04	763 1	47.8	8.8	46	nw.			6-8		5		nw.	0	0		M. Stephan, Director.
Montlouis	25 01	635.2	29.85	758.2	39.7	4.3	50	nw.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.09	764.2	30.20	767.0	49.3	9.6	79	nnw.			6		2		s.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.51	749.5	30.32	770.1	38.5	3.6	93	wsw.			2		kn		n.	0	0		M. Hasse, Director.
Nantes, Observatory	30.41	772.4	30.57	776.5	46.0	7.8	66	nw.			1-2		10 n;kn		nnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.20	767.0	30.31	769.9	49.6	9.8	50	nw.	24.2	10.8			7	n.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.34	541.9			18.5	— 7.5		ne.			2		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.18	741.2	30.28	769.1	45.0	7.2	69	se.			4		n	nw.	nw.	0	0		M. Taillen.
Puy de Dôme Obs'y, Summit	25.33	643.4			22.8	— 5.1	100	nnw.			4		8			0.094	2.4		M. Alluard.
Rochefort, Naval Obs'y	30.51	775.0	30.54	775.8	47.8	8.8	87	nnw.			2		8		n.	0	0	¾ covered.	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.25	768.3	30.47	773.9	45.1	7.3	79	n.			1		1		se.	0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.11	714.0	30.35	770.8	39.2	4		nw.			2		5 kn		s.	0	0	fair	M. Seger, Director.
Rouen, Normal School	30.40	772 1	30.45	773 3	44.6	7	71	n.			1		10	n.		0.055	1.4	covered	M. Mouillot, Dir.
St. Lô, Normal School			30.34	770.7	46.2	7.9	65	w.			1		0			0	0	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	30.26	768.6	30.43	772.8	42.6	5.9	69	nw.			1		2		nw.	0.004	0.1	slightly cl'dy	M. Renou, Director.
Toulouse, Observatory	29.76	755.8	30.49	774.4	45.7	7.6	88	nw.			4		8	nw.		0.024	0.6	very cloudy	M. Baillaud, Director.
Tours	30.31	769.9	30.49	774.4	45.3	7.4	66	wnw.			1					0.004	0.1		M. de Tastes.
Versailles, Observatory	29.92	760.0	30.42	772.6	41.7	5.4	73	n.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.41	772.3	30.56	776 1	50.5	10.3	66	n.	5.8	2.6			9 k		n.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.66	728.0	30.18	766.6	33.4	0.8	78	nw.			6		9	nw.		0.028	0.7		Prof. Jnedt.
Bamberg	29.16	740.7	30.00	762 1	37.9	3.3	60	w.			5		5 k		w.	0.110	2.8		Prof. Dr. Hoh.
Berlin	29.60	751.9	29.75	755.6	38.5	3.6	70	w.			5		5			0.083	2.1		Meteorological Institute
Breslau	29.13	740.0	29.66	753.3	36.5	2.5	77	w.			6		10			0	0		Royal University Obs'y
Carlsruhe	29.80	756.8	30.27	768.9	39.2	4.0	77	sw.			5		10	sw.		0.177	4.5		Albert Senz.
Cassel	29.32	744.7	30.03	762.8	36 9	2.7	68	nw.			7		8	w.		0.299	7.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.79	756.6	30.17	766 3	40.8	4.9	75	nw.			2		9			0.126	3.2		Physical Society.
Friedrichshafen	28.83	732.2	30.31	769.8	37.0	2.8	70	w.			3		8	w.		0.217	5.5	rain & snow	Wilhelm, Chief Tel.
Hamburg	29.78	756.5	29.87	758.8	39.0	3.9	67	nw.			6		10			0.287	7.3	rain & snow	E. Preller.
Kiel	29.75	755.6	29.76	756.0	38.5	3.6	64	wnw.			4		1			0.087	2.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.48	748.9	29.92	760.0	35.8	2.1	84	nw.			5		6	nw.		0.020	0.5		H. Leppig, Asst.
Magdeburg	29.68	753.9	29.87	758.8	39.0	3.9	69	wnw.			5		9			0.087	2.2		Weather Observatory.
Memel	29.17	740.8	29.21	741.9	33.6	0.9	94	n.			5		10 k						Issermann.
Munich	28.31	719.0	30.18	766.5	33.6	0.9	68	nw.			6		10			0.079	2.0	snowing	Central Station.
Neufahrwasser	29.28	743.7	29.30	744.1	34.3	1.3	92	nw.			6		8			0.067	1.7		A. Lothes.
Neustadt, Palatinate	29.64	752.9	30.17	766.3	40.5	4.7	67	w.			4		5	w.		0	0		Dicknether.
Stuttgart	29.24	742.8	30.17	766.4	37.8	3.2	75	w.			4		9	nw.		0.051	1.3		Prof. Dr. Schoder.
Wustrow	29.67	753.7	29.70	754.3	37.9	3.3	78	nw.			5		3 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.65	753.2	30.04	763.1	53.4	11.9		n.			1.0	0	5 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.96	761.1	30.02	762.4	73.9	23.3	59	wnw.	24.0	10.7			1			0	0	d. clouds	
Deesa	29.52	749.8	30.00	761.9	81.9	27.7	23	wsw.	7.0	3.1			0			0	0	blue sky	
Bombay	29.97	761.2	30.01	762.2	77.5	25.3	63	w.	6.0	2.7			0			0	0	blue sky	
Poona, Yarrowda	28.14	714.6	29.99	761.8	81.1	27.3	20	w.	5.0	2.2			0			0	0	blue sky	
Belgaum	27.44	697.1	29.99	761.7	77.2	25.1	23	ne.	4.0	1.8			0			0	0	blue sky	
Lahore	29.25	742.8	30.02	762.4	65.1	18.4	61	e.	4.0	1.8			7			0	0	d. clouds	
Roorkee	29.11	739.3	30.04	763.0	65.8	18.8	49	calm	0	0			0			0	0	blue sky	
Agra	29.45	748.0	30.03	762.7	74.2	23.4	42	nw.					0			0	0	blue sky	
Nagpur	28.96	735.7	30.02	762 5	77.7	25.4	28	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.68	728.4	30.07	763.7	69.7	20.9	41	calm	0.7	0.3			0			0	0	blue sky	
Lucknow	29.69	754.1	30.08	764.0	69.3	20.7	38	calm	0	0			0			0	0	blue sky	
Allahabad	29.74	755.3	30.06	763.6	64.8	18.2	70	calm	0	0			0			0	0	blue sky	
Patna	29.87	758.8	30.07	763.7	66.4	19.1	61	nw.	1.5	0.7			0			0	0	blue sky	
Hazaribagh	27.98	710.6	30.06	763.4	63.5	17.5	41	nnw.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.97	761.2	30.06	763.4	72.8	22.7	58	nnw.					0			0	0	blue sky	
Calcutta, Alipore	30.01	762.2	30.03	762.7	68.4	20.2	71	s.	1.5	0.7			5			0	0	d. clouds	
Dhubri	29.96	761.0	30.08	764.2	64.4	18.0	70	calm	1.2	0.5			0			0	0	blue sky	
Chittagong	29.98	761.4	30.07	763.8	65.1	18.4	64	calm	2.0	0.9			0			0	0	blue sky	
Sibsagar	29.75	755.5	30.10	764.6	57.9	14.4	87	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.55	725.1	30.02	762.4	73.7	23.2	37	sw.	2.0	0.9			0			0	0	blue sky	
Zanzibar	29.90	759.4	29.92	760.0	84.1	28.9	67	ne.	10.5	4.7			3	nne.		0.06	1.5	d. clouds	
Bellary	28.50	723.9			78.0	25.6	28	e.	2	0.9		0	0			0	0	blue sky	
Trichinopoly	29.74	755.4			80.1	26.7	64	ne.	0.1	0.04		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.55	750.6	29.98	761.4	50.9	10.5	13	n.	5.6	2.5			1			0	0		Prof. Giovanni Clodig.
Milan	29.48	748.9	30.02	762.6	39.9	4.4	71	e.	5.6	2.5			1			0	0		Prof. G. V. Schiapparelli
Padua	29.84	757.0	29.95	760.8	43.5	6.4	66	nw.	7.4	3.3			3			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.09	738.8	30.03	762.8	41.5	5.3	50	e.	4.9	2.2			4	n.		0	0		Prof. F. F. Denza.
Genoa	29.73	755.1	29.93	760.1	55.0	12.8	24	ne.	3.1	1.4			6	n.		0	0		Prof. G. M. Garibaldi.
Pesaro	29.88	758.9	29.93	760.2	41.9	5.5	77	n.	23.0	10.3			10	nw.		0	0		Prof. Luigi Guidi.
Florence	29.62	752.3	29.88	759.0	43.5	6.4	73	se.			2		10			0	0		Prof. Costantino Pit'el
Leghorn	29.77	756.1	29.85	758.3	48.7	9.3	67	ne.	3.1	1.4			9			0	0		Prof. P. Monte.
Rome	29.68	753.8	29.86	758.4	51.1	10.6	76	ssw.	1.3	0.6			10			0	0		Prof. P. Tacchini.
Lecce	29.64	752.9	29.91	759.6	55.4	13.0	73	ssw.	10.5	4.7			3	sw.		0	0		Prof. C. de Giorgi.
Cosenza	29.12	739.6	30.04	763.1	48.6	9.2	73	ssw.	3.1	1.4			9	sw.		0.031	0.8		Prof. D. Conti.
Cagliari	29.72	754.9	29.92	759.9	55.9	13.3	54	nw.			0.8		5			0	0		Prof. A. Pacinotti.
Palermo	29.70	754.4	29.96	760.9	60.1	15.6	57	wsw.	11.2	5.0			1	wsw.		0	0		Prof. G. Cacciatore.
Syracuse	29.93	760.1	29.97	761.2	56.3	13.5	72	wsw.	0.7	0.3			5	wnw.		0	0		Sig. V. Giuliani.
Sub-series.																			
Naples, Astron'l Obs'y	29.36	745.7	29.89	759.1	55.2	12.9	77	ssw.	3.8	1.7			7	sw.		0.008	0.2		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.09	764.3	30.12	765.2	34.4	1.3	71	e.			2	3 ck	7 k	w.	w.	0.051	1.3	cloudy	H. Hattori.
Awomori	30.04	763.0	30.08	764.0	31.5	— 0.3	77	calm	0	0			10ks;ck		w.	0	0	overcast	K. Ogawa.
Hakodate	30.05	763.4	30.06	763.6	28.0	— 2.2	80	calm	0	0		0	9 ks			0	0	overcast	Y. Souma.
Hamamatsu	30.12	765.0	30.22	767.5	36.2	2.3	73	nne.			2	8ck;cs	0	w.		0.437	11.1	cloudy	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.14	765.5	30.15	765.9	37.1	2.8	96	n.	9.1	4.1			10 n		w.	0.217	5.5	light rain	Y. Okamoto.
Kagoshima	30.17	766.4	30.19	766.7	54.7	12.6	95	calm			0		10 s		w.	0.366	9.3	overcast	
Kanazawa	30.01	762.3	30.12	765.1	35.0	1.7	72	e.	4.9	2.1			10 s		w.	0.355	9.0	overcast	S. Endo.
Kioto	30.03	762.7	30.20	767.1	35.0	1.7	81	n.	1.7	0.7			10 n			0.216	5.5	rain & hail	M. Tojima.
Kochi	30.18	766.5	30.20	767.0	44.1	6.7	92	w.	8.1	3.6			10 n?			0.209	5.3	clear?	K. Kusunose.
Miasaka	30.16	766.0	30.19	766.7	46.7	8.2	97	wsw.			1	1 ck	2ks;s	w.	w.	0.256	6.5	fair	K. Masusaki.
Miyako	30.02	762.4	30.13	765.2	30.1	— 1.1	66	wsw.	2.6	1.2		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.93	760.2	30.14	765.5	50.6	10.3	95	s.	1.8	0.8		5 ck	4 s	w.	w.	0.640	16.3	cloudy	
Nemuro	30.00	762.0	30.05	763.3	19.8	— 6.8	68	calm	0	0		2 k	0			0	0	clear	A Shibuya.
Niigata	30.09	764.3	30.13	765.3	33.6	0.9	87	s.	1.4	0.6		0	1ks;s			0.150	3.8	clear	Satoo & Tomikawa.
Nobiru	30.14	765.6	30.16	766.0	29.6	— 1.3	99	calm	0	0		9ck;cs	0	w.		0.025	0.6	cloudy	Yoshino & Midzushina.
Numadzu	30.19	766.8	30.22	767.6	32.3	0.2	86	n			2	5 c	0			0.405	10.3	fair	T. Ohgi.
Osaka	30.20	767.2	30.22	767.6	36.6	2.6	86	ene.	3.2	1.4			10 n			0.170	4.3	light rain	H. Omura.
Sakai	30.04	762.9	30.05	763.1	42.2	5.7	85	e.			2		10 n		w.	0.185	4.7	raining	Yamawchi & Sakamoto.
Sapporo	30.01	762.2	30.08	764.0	19.8	— 6.8	86	sw.	13.4	6.0		0	2 s		s.	0	0	clear	S. Kimura.
Shimonoseki	29.95	760.8	30.10	764.5	45.0	7.2	94	ne.			4		10s;ks		w.	0.276	7.0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.13	765.3	30.21	767.4	29.2	— 1.6	81	s.	2.0	0.9		2 ck	0	w.		0.069	1.7	clear	The Staff.
Wakayama	30.12	765.1	30.18	766.5	39.6	4.2	89	n;nne.	3.8	1.7			10 n			0.163	4.1	raining	K. akai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.80	756.9	29.98	761.5	81.6	27.6	66	ene.	14.0	6.3		1 cs	4 k		ne.	0.66	16.8	fair	The Staff.
MEXICAN.																			
Leon	24.42	620.3	30.38	771.6	38.8	3.8	85	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.83	757.6	30.09	764.3	66.5	19.2	97	ese.	5.3	2.3			10 n		se.	0.729	18.5	raining	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.31	769.8	30.31	769.8	43.2	6.2		nw.			5					0.043	1.1		
Groningen	30.10	764.4	30.15	765.8	38.7	3.7		nnw.			3					0.067	1.7		
Helder	30.16	766.1	30.16	766.1	40.3	4.6		nw.			5					0.126	3.2		
Hellevoetsluis	30.27	768.8	30.27	768.8	48.7	9.3	83	wnw.			3					0.059	1.5		
Utrecht	30.17	766.4	30.23	767.8	42.3	5.7	69	wnw.			3		7			0.079	2.0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.90	759.4			76.3	24.6	92	nw.	0	0			9			0.319	8.1		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.73	755.2	29.80	756.8	33.8	1.0	81	n.	20	9			10			0.224	5.7	snowing	
Brono	29.42	747.2	29.46	748.2	33.1	0.6	89	nnw.			4		5			0.677	17.2		
Christiania	29.38	746.3	29.54	750.2	24.3	— 4.3	79	ne.	4	2			2			0	0		
Gjæsvær	29.14	740.2	29.47	749.8	28.8	— 1.8		calm			0		10			0.209	5.3		
Lodingen	29.32	744.8	29.37	746.0	28.9	— 1.7	68	n.			1		8			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.18	766.5	30.27	768.8	64.4	18.0	71	e.	6.3	2.8			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.15	765.8	30.50	774.6	52.3	11.3	57	nne.	8.7	3.9			0			0	0		The Staff.
Ponta Delgada, Azores	30.09	764.3	30.16	766.1	63.0	17.2	80	se.	20.6	9.2			3	wnw.		0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.00	761.9	30.03	762.7	70.7	21.5	78	calm			0		9			0.098	2.5		
San Salvador, Congo	28.09	713.4	29.90	759.5	83.3	28.5	67	nw.			1		8			0	0		
Serra da Estrella	25.63	651.1	30.45	773.4	46.4	8.0	26	calm	0	0			0			0	0		
RUSSIAN.																			
Akmolinski	28.84	732.6	30.01	762.2	12.7	—10.7	94	sw.	7	3		0	7 k			0.004	0.1		Major K. Lasarew.
Archangel	29.47	748.6	29.49	749.1	10.0	—12.2	96	sse	9	4			10			0	0		Capt. Sseliwerstow
Ashuruda	30.38	771.6	30.28	769.2	51.1	10.6	79	nw.	2	1		0	1 k			0	0		
Astrakhan	30.22	767.6	30.14	765.5	8.1	—13.3	64	nw.	7	3		0	4 k			0	0		Capt. Wisganow.
Baku	30.23	767.8	30.18	766.0	41.4	5.3	53	ssw.	9	4		0	0			0	0		
Barnaul	29.72	755.0	30.27	768.8	12.7	—10.7	94	sw.	9	4			10			0.063	1.6		Meteorological Office.
Bielosersk	28.98	736.2	29.49	749.1	5.4	—14.8	73	se.	16	7			10 s			0.012	0.3	snow-drift	
Dorpat	28.69	728.6	28.93	734.8	32.5	0.3	96	nnw.	4	2			10 n			0.142	3.6	snowing	Observatory.
Ekaterinburg	28.88	733.6	29.94	760.5	1.9	—16.7	97	n.	2	1			10					light snow	Meteorological Obs'y.
Elissawetgrad	29.19	741.5	29.66	753.3	34.7	1.5	83	wsw.	9	4		8 cs	0			0	0		
Kasan	29.75	755.6	30.06	763.4	— 8.5	—22.5	100	nw.	7	3			2			0	0		Observatory.
Kem	29.31	744.5	29.30	745.8	11.5	—11.4	93	se.	13	6			10 n			0.146	3.7		
Kertch	29.84	757.8	29.86	758.4	45.3	7.4	82	sw.	9	4		6 c	0			0	0		Lagorio & Sastyres.
Kieff	28.84	732.4	29.48	748.8	36.7	2.6	74	w.	13	6		c;ck	7 ks			blank	blank		Observatory.
Koslov	29.26	743.3	29.82	757.5	— 2.0	—18.9	77	sse.	25	11			10 s			0.268	0.8		
Lgov	28.89	733.8	29.48	748.9	33.6	0.9	90	ssw.	11	5			10			0.008	0.2	snowing	R. I. Ssaweljew, Engin'r.
Libau	29.10	739.2	29.13	739.8	35.1	1.7	94	n.	9	4			10			0.382	9.7	snowing	L. Quasa.
Lugan	29.60	751.7	29.82	757.3	19.9	— 6.7	81	e.	9	4			10			0.079	2.0		Meteorological Obs'y
Moscow	28.98	736.1	29.51	749.5	3.2	—16.0	83	s.	2.2	1.0			10 n			0.134	3.4	snowing	Meteorological Obs'y
Nertschinsk	27.56	700.0	30.15	765.8	—10.8	—23.8	90	calm	0	0			10			0	0		

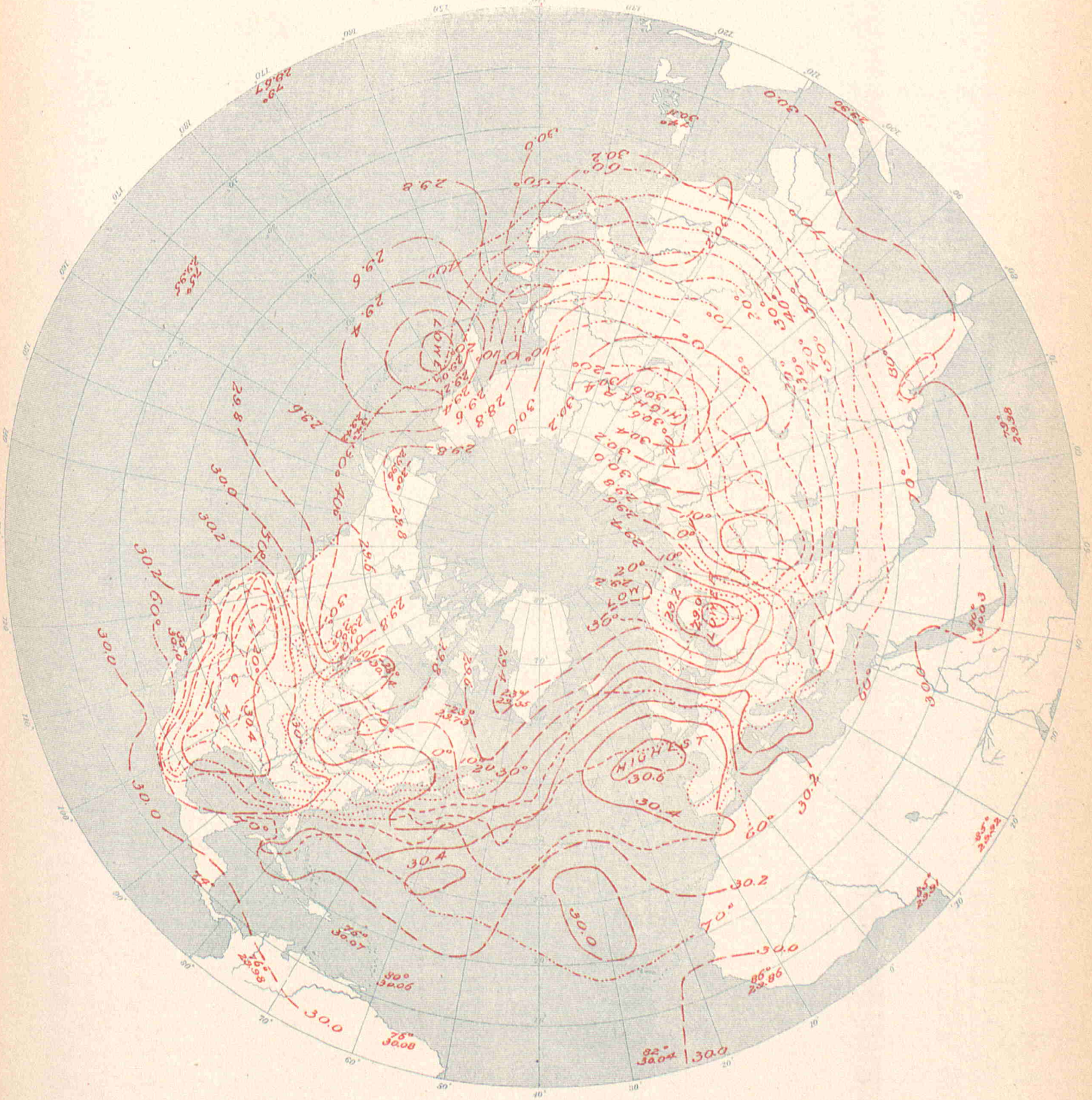
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	29.63	752.7	29.71	754.5	37.8	3.2	89	sw.	13	6		c	8 n			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	29.84	757.9	29.93	760.1	— 7.6	—22.0	69	calm	0	0		0	0						Iwanow.
Pekin, China	30.05	763 2	30.19	766.8	28.2	— 2.1	51	calm	0	0		0	0			0	0		Physical Observatory
Petro-Alexandrovsk	29.80	756.9	30.17	766.3	32.9	0.5	90	sw.	2	1			10 n						
Petrozavodsk	29.04	737.7	29.25	743.0	12.2	—11.0	86	se.	22	10			10			0.295	7.5		Dr. Bergmann.
Pinsk	28.91	734.4	29.42	747.2	34.9	1.6	73	w.	34	15			10 ks			0.008	0.2		
Poti	30.11	764.9	30.15	765.7	38.5	3.6	92	e.	9	4			10 n			0.504	12.8		
St. Petersburg	28.97	735.8	28.99	736.4	20.5	— 6.4	90	ese.	16	7			10 n			0.264	6.7		Central Physical Obs'y.
Samarkand	27.57	700.3	30.11	764.9	39.7	4.3	92	calm	0	0			10 n						
Semipalatinsk	29.56	750.8	30.28	769.1	12.7	—10.7	87	se.	9	4			8			0	0		Major Lasarew
Sevastopol	29.63	752.6	29.85	758.1	47.1	8.4	70	sw.	27	12		3 cs	0			0	0		
Starol Bykhov	28.64	727.5	29.20	741.7	35.1	1.7	80	sw.	31	14			10			0.012	0.3	light snow	
Tashkend, Laboratory	28.39	721.1	30.15	765.7	32.5	0.3	96	nw.	9	4			10 n						Terch, A. M
Tiflis	28.74	730.0	30.21	767.3	40.1	4.5	62	n.	4	2		0	7 ks			0.028	0.7		Physical Observatory.
Vernoe	27.44	696.9	30.11	764.8	19.6	— 6.9	78	calm	0	0		2 cs	0						
Viatka	29.38	746.2	30.11	764.7	—16.6	—27.0	92	sw	7	3			10			0	0		
Vladivostock	29.80	756.8	29.86	758.5	22.6	— 5.2	90	ne.	16	6			10			0	0	foggy	
Warsaw	29.03	737 3	29.46	748.3	33.6	0.9	89	sw.	20	9			10			0.059	1.5	heavy cl'ds	Astronomical Obs'y.
Yeniseisk	30.31	769 9	30.66	778.8	—28.8	—33.8	74	calm	0	0			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.85	732.8	29.44	747.8	3.3	—15.9	85	s e.	30	13.4			10 n		se.	inap.	inap.	cloudy	Prof. S. Fadeieff.
Spanish.																			
Barcelona, Met. Obs'y	30.06	763.5	30.17	766.4	53.2	11.8	66	ne.				0	5			0	0	½ covered	B. J. Elin.
Bilbao, Met. Obs'y	30.52	775.1	30.58	776.6	49.3	9.6	98	sw.	1.1	0.5			10			0.205	5.2	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.48	698.0	30.58	776.7	44.4	6.9	77	ne.	4.3	1.9		0	3			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.17	715.5	30.48	774.2	47.5	8.6	61	e.	2.7	1.2		1	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.13	765.3	30.26	768.6	62.4	16.9	64	nne.	4.9	2.2		0	1			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.56	750.9	30.48	774.2	52.9	11.6	71	ne.	11.9	5.3		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.13	765.3	30.20	767.0	66.7	19.3	93	se.	0.9	0.4		0	8			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.06	763 4	30.11	764.8	73.9	23.3	77	ese.	11.0	4.9		3 ck	3 ks		ene.	0	0	cloudy	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.32	770.0	30.42	772 6	54.9	12.7	69	e.	3.3	1.5		0	1		n.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	29.98	761.5	30.07	763.8	75.9	24.4	81	ne.	11.4	5.1			10 kn		ne.	0.091	2.3	overcast	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.25	742.9	29.29	743.9	17.2	— 8.2	94	ssw.			2		10			0.126	3.2		
Umea	29.17	741.0	29.22	742.3	11.1	—11.6	85	calm			0		0			0	0		
Hernosand	29.19	741.5	29.24	742.8	23.0	— 5.0	95	n.			2		5			0	0		
Stockholm	29.06	738.2	29.24	742.7	32.0	0.0	83	nnw			4		10			0	0		
Wisby	29.17	741.0	29.23	742.5	34.2	1.2	75	n.			7		10			0	0		
Sub-series.																			
Upsala	29.17	740.8	29.25	743.0	31.1	— 0.5	77	nw.	15.7	7.0			9		n.	0	0		H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			29.93	760 2	49.6	9.8	66	sw.	19	8.5			7		sw.	0.197	5.0		The Observatory.
Valona			30.02	762.4	55.9	13.3		se.			1		10					raining	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.13	765.4	59.9	15.5	53	ne.			1	7 c;cs	0	sw.		0	0		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.06	763.5	30.16	766 1	18	— 7.8	61	n.	4	1.8			10 s			0.05	1.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.17	740.9	29.88	758.9	10.2	—12.1	80	s.	13	5.8			10 n			inap.	inap.	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.18	639.6	30.30	769 6	19.7	— 6.8	80	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assiniboine, Ft., Montana	26.98	685.3	30.02	762.5	40.9	4.9	67	sw.	28	12.5		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.04	737.6	30.27	768.8	24.6	— 4.1	85	nw.	11	4.9		0	0			0.49	12.4	clear	S. W. Beall.
Atlantic City, New Jersey	30.06	763.5	30.07	763 8	23.0	— 5.0	73	n.	9	4.0		0	0			0.90	22.9	clear	B. A. Blundon.
Augusta, Georgia	30.04	763.0	30.24	768.1	36.6	2.6	80	w.	1	0.4		0	1 s			0.12	3.0	clear	W. J. Evans.
Baltimore, Maryland	30.11	764.8	30.16	766.1	30	— 1.1	57	n.	7	3.1			10 s			0.30	7.6	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.05	763.3	30.07	763 8	23.0	— 5.0	73	n.	15	6.7		1 ck	0			0.27	6.9	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.36	720.3	30.10	764.5	31.0	— 0.6	71	se.	2	0.9			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27 02	686.3	30.00	762.0	35.0	1.7	56	sw.	24	10.7			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.04	712.2	30.04	763.0	21	— 6.1	73	nw.	3	1.3		0	8 s		nw.	inap.	inap.	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.05	763 3	30.08	764.0	22.5	— 5.3	80	n.	16	7.2		2 cs	0	sw.		0.87	22.1	clear	J. T. Elker.
Boise City, Idaho	27.50	698.5	30.43	772.9	14	—10.0	91	nw.	4	1.8		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.88	758.9	30.05	763.3	17.0	— 8.3	74	nw.	12	5.4		0	3 s			0.05	1.3	clear	O. B. Cole.
Brownsville, Texas	30.40	772.1	30.46	773.7	44.0	6.7	51	nw.	6	2.7			10 s			0	0	cloudy	John McGlone.
Buffalo, New York	29.29	744.0	30.08	764.0	15.8	— 9.0	93	se.	5	2.2			10 s		se.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.75	704.8	29.98	761.5	23.1	— 4.9	88	s.	5	2 2		8 c	0	nw.		0	0	cloudy	A. Schneider.
Cairo, Illinois	29.81	757.2	30.23	767.8	28.0	— 2.2	77	sw.	9	4.0		7 cs	0	w.		0	0	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.96	761.0	30.10	766.1	46.6	8.1	95	se.	40	17.9			10 n			0.20	5.1	light rain	J. H. Young.
Cape Henry, Virginia	30.08	764.0	30.10	764.5	34.0	1.1	100	n.	18	8.0			10 n			0.24	6.1	light rain	A. K. Alderson.
Cape May, New Jersey	30.08	764.0	30.11	764.8	24.0	— 4.4	73	ne.	8	3.6		4 cs	0			0.62	15.7	fair	W. E. Smith.
Cape Mendocino, California	29.61	752.1	30.31	769.9	49	9.4	71	n.	11	4.9		0	0			0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.18	766.6	30.20	767.1	58.5	14.7	100	w.	1	0.4			fg.			0.25	6.3	dense fog	G. W. Davis.
Charleston, S. Carolina	30.03	762.7	30.09	764.3	53.5	11.9	69	w.	8	3.6			10 s		w.	inap.	inap.	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.28	743.7	30.17	766.3	38.0	3.3	72	n.	4	1.8			10 s		n.	1.83	46.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.45	748.0	30.31	769.9	22.5	— 5.3	66	sw.	11	4.9		1 cs	0			0.45	11.4	clear	B. L. Goulding.
Cheyenne, Wyoming	24.10	612.1	30.37	771.4	36.2	2.3	39	nw.	28	12.5		5 c	0			0	0	fair	E. McGovern.
Chicago, Illinois	29.12	739.6	29.87	758.7	22.0	— 5.6	80	sw.	11	4.9			10 n			0.05	1.3	light snow	Wm. Norrington.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	29	— 1.7	88	ne.	18	8.0			10 ks		ne.	0.49	12.4	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.40	746.7	30.09	764.3	22.2	— 5.4	88	s.	6	2.7			10 n		s.	inap.	inap.	light snow	L. Dunne.
Cleveland, Ohio	29.23	742.4	30.01	762.2	17.0	— 8.3	83	s.	8	3.6			10 s		s.	0.04	1.0	cloudy	W. Line.
Columbus, Ohio	29.19	741.4	30.09	764.3	17.2	— 8.2	78	s.	10	4.5			10 s		s.	0	0	cloudy	F. T. Williams.
Concho, Fort, Texas	28.51	724.1	30.53	775.4	17.0	— 8.3	70	nw.	6	2.7		0	2 k			0	0	clear	C. E. King.
Custer, Fort, Montana	26.79	680.5	30.17	766.3	40	4.4	92	w.	4	1.8			10 s			0	0	cloudy	W. J. Daily.
Davenport, Iowa	29.30	744.2	30.01	762.2	21	— 6.1	76	nw.	19	8.5		0	3 s		nw.	0.01	0.3	clear	R. R. Martin.
Davis, Fort, Texas	25.46	646.7	30.44	773.2	14.7	— 9.6	70	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.38	720.8	30.18	766.6	51.5	10.8	38	sw.	4	1.8			10 ks		w.	0	0	cloudy	H. S. Blandford.
Deadwood, Dakota	25.34	643.6	30.29	769.4	41.0	5.0	67	sw.	10	4.5		4 c	0	sw.		0	0	fair	G. Kingsbury.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	27.5	— 2.5	76	ne.	20	8.9		0	1 k		ne.	0.46	11.7	clear	G. A. Martin.
Denver, Colorado	24.85	631.2	30.37	771.4	38.9	3.8	47	se.	14	6.3		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.15	740.4	30.12	765.0	30	— 1.1	68	n	12	4.5		0	5 s		n.	0.06	1.5	fair	F. W. Conrad.
Detroit, Michigan	29.22	742.2	29.98	761.5	23.0	— 5.0	73	s.	16	7.2			10 n			0.11	2.8	light snow	N. B. Conger.
Dodge City, Kansas	27.61	701.3	30.36	771.1	24.2	— 4.3	73	w.	6	2.7		hz.	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.21	741.9	29.98	761.5	21.3	— 5.9	60	w.	10	4.5		0	1 s			0.02	0.5	clear	J. Harvey Smith
Duluth, Minnesota	29.19	741.4	30.00	762.0	2	—16.7	72	w.	3	1.3		0	0			0.05	1.3	clear	E. R. Brace.
Eastport, Maine	29.96	761.0	30.03	762.7	14.5	— 9.7	82	n.	16	7.2			10 s		w.	0.18	4.6	cloudy	D. C. Murphy
Elliott, Fort, Texas	27 47	697.7	30.40	772.1	27.0	— 2 8	56	nw.	12	5.4		1 cs	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.56	674.6	30.44	773.2	21.4	— 5.9	73	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.28	743.7	30.04	763.0	19.0	— 7.2	84	s.	4	1.8			10 s		sw.	0.01	0.3	cloudy	O. A. Shaw.
Escanaba, Michigan	29.14	740.1	29.86	758.4	3.5	—15.8	85	w.	4	1.8		10 cs	0	nw.		0.01	0.3	cloudy	L. M. Pindell.
Fort Smith, Arkansas	29.87	758.7	30.37	771.4	20.5	— 6.4	84	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Galveston, Texas	30.40	772.1	30.44	773 2	37.6	3.1	62	ne.	10	4.5		0	5 s			0.17	4.3	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.10	739.1	29.81	757.2	21.0	— 6.1	84	w.	13	5.8			10 n			0.46	11.7	light snow	Joseph E. Muelle
Grant, Fort, Arizona	25.37	644.4	30.27	768.8	28.3	— 2.1	51	nw.	10	4.5		0	0			0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.01	762.2	30.02	762.5	41.0	5.0	92	nw.	22	9.8	.....	.....	10 s	.....	n.	0.05	1.3	cloudy	R. M. Crawford.
Helena, Montana	25.88	657.3	30.26	768.6	.....	.....	.....	w.	2	0.9	.....	0	8 s	.....	.....	0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.58	725.9	30.12	765.0	21.8	— 5.7	82	nw.	4	1.8	.....	7 cs	0	n.	.....	inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	29.14	740.1	29.98	761.5	19.6	— 6.9	81	sw.	7	3.1	.....	.....	10 n	.....	sw.	0.02	0.5	light snow	C. F. R. Wappenhans.
Indianola, Texas	30.45	773.4	30.48	774.2	36.1	2.3	56	n.	15	6.7	.....	0	1 s	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.12	765 0	30.17	766 3	60.0	15.6	93	w.	1	0.4	.....	.....	fg.	.....	.....	0.28	7.1	dense fog	J. W. Smith.
Keokuk, Iowa	29.34	745.2	30.04	763.0	32.0	0.0	78	nw.	1	0.4	.....	10 k	0	nw.	.....	0.02	0.5	cloudy	F. Z. Gosewisch.
Key West, Florida	30.16	766.1	30.18	766 6	70	21.1	94	se.	4	1.8	.....	0	4 k	.....	se.	0.01	0.3	fair	A. W. Browne.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	30.0	3.9	82	ne.	32	14.3	.....	.....	10 s	.....	ne.	0.32	8.1	cloudy	Wesley Blake.
Knoxville, Tennessee	29.19	741.4	30.27	768.8	17.4	— 8.1	93	w.	5	2.2	.....	0	1 s	.....	.....	0.69	17.5	clear	J. Y. Cody.
La Crosse, Wisconsin	29.15	740.4	29.99	761.7	12	11.1	80	nw.	7	3.1	.....	0	0	.....	.....	0.06	1.5	clear	S. C. Emery.
Leavenworth, Kansas	29.26	743 2	30.22	767.6	33.4	0.8	78	nw.	3	1.3	.....	1 c	0	nw.	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	29.42	747.3	30.29	769.4	47.0	8.3	42	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	30.01	762.2	30.34	770.6	28.0	— 2.2	64	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.72	754 9	30.12	765.0	49.0	9.4	37	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.49	749.0	30.08	764.0	26.0	— 3.3	82	s.	11	4.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	L. M Dey.
Lynchburg, Virginia	29.42	747.3	30.14	765.5	31.0	— 0.6	62	nw.	3	1.3	.....	.....	10 s	.....	.....	0.02	15.7	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.12	739.6	29.82	757.4	16.0	— 8.9	87	s.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.12	765.0	30.13	765.3	40.0	4.4	86	nw.	14	6.3	.....	.....	10 s	.....	nw.	0.19	4.8	cloudy	William Daly.
Maginnis, Fort, Montana	25.36	644.1	30.14	765 5	40.0	4.4	50	sw.	35	15.6	.....	10 k	0	sw.	.....	0	0	cloudy	F. Burke.
Marquette, Michigan	29.07	738.4	29.85	758.2	7.0	—13.9	64	w.	12	5.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.96	761.0	30.32	770.1	28	— 2.2	94	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.05	737.9	29.85	758.2	14.6	— 9.7	73	nw.	12	5.4	.....	0	2 s	.....	nw.	0.07	1.8	clear	S. W. Rhode.
Mobile, Alabama	30.32	770.1	30.36	771.1	30.1	— 1.1	81	n.	6	2.7	.....	0	2 s	.....	n	0.14	3.6	clear	H. U. Jones.
Montgomery, Alabama	30.12	765.0	30.36	771.1	27	— 2.8	88	n.	4	1.8	.....	0	0	.....	.....	0.46	11.7	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.98	736.1	30.10	764.5	0	—17.8	68	w.	5	2.2	.....	.....	10 s	.....	w.	0.09	2.3	cloudy	H. Bessant.
Mt. Washington, N. H	23.43	595.1	30.06	763.5	6.5	—14.2	89	calm	0	0	.....	.....	10 s	.....	w.	0.09	2.3	cloudy	Edwd. A. Beals.
Nashville, Tennessee	29.63	752.6	30.24	768.1	12.0	—11.1	87	s.	4	1.8	.....	6 c	fg.	w.	.....	0.35	8.6	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.08	764.0	16.5	— 8.6	63	nw.	7	3.1	.....	2 c	hz.	s.	.....	0.28	7.1	clear	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.09	764.3	21.0	— 6.1	70	nw.	3	1.3	.....	4 ck	0	nw.	.....	0.42	10.7	fair	J. G. Lynch.
New Orleans, Louisiana	30.34	770.6	30.40	772.1	38.0	3.3	62	n.	8	3.6	.....	0	fg.	.....	.....	0.04	1.0	clear	M. Herman.
New York, New York	29.91	759.7	30.10	764.5	24.5	— 4.2	80	nw.	5	2.2	.....	0	0 s	.....	.....	0.20	5.1	fair	H. J. Peurod.
Norfolk, Virginia	30.05	763.3	30.08	764.0	35.1	1.7	79	n.	8	3.6	.....	.....	10 s	.....	n.	0.93	23.6	cloudy	Wm. Davis.
North Platte, Nebraska	27.16	689.9	30.28	769.1	28.6	— 1.9	86	w.	10	4.5	.....	7 cs	0	nw.	.....	0	0	fair	J. J. Mc Lean.
Olympia, Washington T'y	30.12	765.0	30.16	766.1	44.0	6.7	93	s.	10	4.5	.....	.....	10 n	.....	.....	0.14	3.6	light rain	J. Dascomb.
Omaha, Nebraska	28.92	734.6	30.20	767.1	28.8	— 1.8	79	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	29.76	755.9	30.11	764.8	19.0	— 7.2	70	se.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.89	759.2	30.47	773.9	28.0	— 2.2	64	n.	1	0.4	.....	2 cs	0	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.31	769.9	30.34	770 6	34.7	1.5	70	n.	12	5.4	.....	2 cs	0	.....	.....	0.18	4.6	clear	M. McGauran.
Philadelphia, Pa	30.00	762.0	30.11	764.8	26.5	— 3.1	70	n.	8	3.6	.....	8 ck	0	w.	.....	0 41	10.4	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.94	455.7	30.64	778 2	18.0	— 7.8	70	ne.	24	10.7	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.24	742.7	30.09	764.3	22.5	— 5.3	88	se.	7	3.1	.....	.....	10 s	.....	sw.	0.10	2.5	cloudy	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	10.5	—11.9	91	w.	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy	G. A. Carden.
Port Huron, Michigan	29.18	741.2	29.91	759 7	14.4	— 9.8	87	s.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	29.98	761.5	30.03	762.7	16.2	— 8.8	80	n.	9	4 0	.....	2 c	hz.	nw.	.....	0.04	1.0	clear	W. W. Eichelberger.
Portland, Oregon	30.18	766.6	30.25	768.3	41.5	5.3	84	s.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.96	634.0	30.34	770.6	30.5	— 0.8	68	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass	30.01	762.2	30.04	763.0	23.7	— 4.6	70	n.	12	5.4	.....	2 c	2 s	.....	w.	0.28	7.1	fair	C. N. Kitchel.
Red Bluff, California	29.97	761.2	30.34	770.6	33	0.6	92	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.31	769.9	30.56	776.2	43.6	6.4	36	nw.	5	2.2	.....	4 cs	5 s	.....	nw.	0	0	cloudy	L. G. Schultz.
Rochester, N. Y	29.36	745.7	30.08	764.0	15	— 9.4	74	sw.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.85	758.2	30.42	772.7	32	0.0	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Maury.
Sacramento, California	30.26	768.6	30.34	770.0	38.0	3.3	94	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.46	748.3	30.12	765.0	36.3	2.4	58	sw.	16	7.2	.....	10 cs	0	.....	.....	inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.92	760.0	29.96	761.0	—20	—28.9	100	s.	.....	.....	2	0	6 s	.....	s.	inap.	inap.	fair	Fred. H. Clarke
St. Paul, Minnesota	29.10	739.1	30.04	763.0	7.0	—13.9	76	w.	5	2.2	.....	0	0	.....	.....	0.08	2.0	clear	P. F Lyons.
St. Vincent, Minnesota	29.02	737.1	30.00	762.0	— 7	—21.7	85	sw.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	C. B. Dilley
Salt Lake City, Utah	26.05	661.7	30.02	777 7	20.5	— 6.4	53	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.00	762.0	30.07	763.8	50.4	10.2	33	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.28	743.7	30.00	762.0	20	— 6.7	84	sw.	12	5.4	.....	.....	10 n	.....	.....	0.04	1.0	light snow	B. F. Hough.
Sandy Hook, New Jersey	30.07	763.8	30.10	764.5	24.7	— 4.1	73	n.	24	10.7	.....	4 c	0	.....	.....	0.26	6.6	fair	V. P. Chappel.
Sanford, Florida	30.12	765.0	30.17	766.3	66.0	18.9	90	sw.	5	2.2	.....	.....	10 ks	.....	sw.	0.09	2.3	cloudy	J. B. Marbury
San Francisco, California	30.23	767.8	30.30	769.0	45.0	7.2	87	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.05	763.3	30.15	765.8	52	11.1	59	w.	10	4.5	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26 27	667.2	30.13	765.3	49	9.4	34	sw.	17	7.6	.....	8 cs	0	.....	.....	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.17	766.3	30.42	772.7	28.5	— 1.9	68	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.53	750.0	29.00	751.8	39.7	4.3	82	w.	3	1.3	.....	.....	10 n	.....	w.	0.60	15.2	light rain	F. W. Fickett.
Smithville North Carolina	30.01	762.2	30.05	763.3	51.6	10.9	94	nw.	3	1.3	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.97	710.4	30.11	764.8	37	2.8	64	sw.	4	1.8	.....	.....	10 k	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.30	744.2	30.03	762.7	29.5	— 1.4	77	w.	12	5.4	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.33	694.2	30.47	773.9	17.0	— 8.3	83	w.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.04	763.0	.....	.....	43.7	6.5	98	sw.	14	6.3	.....	.....	10 n	.....	sw.	4.00	101.6	light rain	R. Connor.
Thomas, Camp, Arizona	27.56	700.0	30.38	771.6	25	— 3.9	70	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.22	742.2	29.96	761.0	18	— 7.8	74	s.	11	4.9	.....	.....	10 n	.....	.....	0.03	0.8	light snow	A. Buell.
Unalaska, Alaska	29.40	746.7	29.42	747.3	34	1.1	88	s.	20	8.9	.....	.....	10 n	.....	.....	0.04	1.0	light snow	Samuel Applegate.
Vicksburg, Mississippi	30.16	766.1	30.43	772.9	27.8	— 2.3	82	e.	2	0.9	.....	0	0	.....	.....	0.20	6.6	clear	O. Dill.
Washington, D. C	30.04	763.0	30.16	766.1	27.6	— 2.4	88	n.	4	1.8	.....	7 cs	3 s	nw.	.....	0.57	14.5	cloudy	T. B. Harrison.
West Las Animas, Colorado	26 21	665.7	30.34	770.6	18.5	— 7.5	80	w.	4	1.8	.....	3 c	0	w.	.....	0	0	clear	F. H. Brandenburg.
Wilmington, N Carolina	30.04	763.0	30.10	764.5	48.8	9.3	86	nw.	5	2.2	.....	.....	10 s	.....	nw.	0.16	4.1	cloudy	L. H. Albrecht.
Yankton, Dakota	28.73	729.7	30.15	765.8	23.4	— 4.8	67	w.	3	1.3	.....	7 ck	0	w.	.....	0	0	fair	E. H. Thompson.
Yuma, Arizona	29.95	760.7	30.10	764.5	51.6	10.9	21	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	28.80	731.5	28.82	732.0	32.9	0.5	93	ne.	36	16.1	.....	.....	10 n	.....	.....	.....	.....	hailing	George Cherwick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	70	24.4	.....	n	.....	.....	4	.....	10 n	.....	n.	0.21	5.3	raining	W. H. Jackson.
Bogota, U. S. C.	22.00	558.8	.....	.....	47.3	8.5	79	n.	2	1	.....	0	0	.....	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	29.60	751.8	29.73	755.1	—23	-30 6	100	sw	18	8.0	.....	0	0	.....	.....	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.12	765.0	71.2	21.8	76	n.	2	0.9	.....	10 cs	0	.....	.....	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	75.5	24.2	88	e.	.....	.....	1	.....	8 ps	e.	e.	0.800	20.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.42	747.3	29.98	761.5	76	24.4	89	s.	.....	.....	1	.....	0 k	.....	s.	0	0	fair	Francisco J. Olsnero.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	90	ne.	.....	.....	2	.....	.....	.....	.....	0.04	1.0	clear	Earl Flint.
York Factory, B. A.	30.07	763.8	30.14	765.5	—28.0	—33.3	.....	sw.	10	4.5	.....	3 c	2 s	sw.	sw.	0.01	0.3	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.94	760.5	29.95	760.7	76.6	24.8	88	s.	4.7	2.1	.....	0	9 k	.....	n.	.....	.....	fair	P. Faslam.
Nuós, Bay of Panama	29.88	759.0	29.95	760.7	71.5	23.6	93	n.	.....	.....	4	0	1 ck	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 40° 33′, W. 73° 00′	30.20	767.1				n.			4		2		nnw.	4 h'r	4 h'r	sm'h		clear.
S. S. Alvo, N. 33° 30′, W. 74° 30′ *	30.04	763.0	67	19.4		wsw.			7–8		10	ssw.	sw.	0	0	high	wnw.	overcast.
S. S. Alleghany, N. 37° 54′ W. 75° — †	30.13	765.3	30	— 1.1		nne.			4		8		n.	6 h'r	6 h'r			cloudy.
Schr. Anna A. Holton, N. 37° 15′, W. 69° 47′ *†	30.04	763.0				ne.			1		10		ne.	5 h'r	5 h'r	r'gh	cross	raining.
S. S. Alps, N. 24° 52′, W. 74° 00′			81	27.2		ene.			3		2		ene.	rain	rain	chop	ene.	
S. S. Circassian, N. 48° 32′, W. 47° 38′	29.85	758.2	36	2.2	100	ssw.			6		10		ssw.			5	wsw.	overcast.
S. S. Caracas, N. 29° 57′, W. 70° 50′ *†	30.21	767.3	72.5	22.5	80	ssw.			5		7		wsw.	2 h'r	2 h'r	light	se.	fair.
S. S. City of Augusta, Savannah, Ga						wsw.			4		5		ssw.	0	0			fair.
S. S. Canada, (Br) N. 40° 44′, W. 65° 20′ †	29.96	761.0	50	10.0		var.			6		10		n.	16 h'r	16 h'r	h'vy	sw.	cloudy.
Bk. Diamant, N. 41° 32′, W. 57° 38′	29.98	761.5	63.1	17.3	78	sw.			7		10		wsw.			6	sw.	squally.
S. S. Dorian, N. 32° 53′, W. 38° 40′	30.09	764.3	63	17.2		n.			6		8		n.	h'vy	h'vy	mod.	n.	cloudy.
S. S. Denmark, N. 49° 16′, W. 8° 40′ †	30.76	779.8	53	11.7	86	wnw.			4		4			0	0	long	wnw.	fair.
S. S. Daniel Steinmann, N. 49° 51′, W. 10° 00′ †	30.67	779.0	56	13.3		nnw.			1		0			0	0	long	wnw.	clear.
S. S. France, N. 46° 12′ W. 41° 03′ *†	30.16	766.0				sw.			3		6		sw.	0	0	r'gh	w.	fair.
Bg. Gipsy Queen, Elorida Straits, Fla *†	30.20	767.1				e.			4					0	0			fair.
Bk. Ibis, N. 40° 10′, W. 73° 30′			31	— 0.6		n.			7		7		nne.	10h'r	10h'r	short	sw.	clearing
Schr. Jas. Slater, N. 37° 15′, W. 74° 18′ *†	30.15	765.8	42	5.6		nne.			6		10		nne.	5 h'r	5 h'r	short	nne.	stormy.
S. S. Lord Gough, N. 48° 50′, W. 40° 19′*	30.09	761.3	40	4.4		s.			6		10		s.	sh'rs	sh'rs	mod.	sw.	cloudy.
S. S. Lessing, N. 49° 42′, W. 17° 19′	30.60	777.2	57	13.9		ne.			1		7		ne.	0	0	r'gh	var.	cloudy.
S. S. Main, N. 49° 47′, W. 11° 02′	30.64	778.2	50.0	10.0		wnw.			2–3		7		wnw.	3 h'r	3 h'r	high	w.	squally.
S. S. Mentmore, N. 40° 50′. W. 66° 47′						wnw.			6		10			8 h'r	8 h'r	h'vy	w.	cloudy.
Schr. Maggie Abbott, N. 25° 50′, W. 74° 44′*†	30.21	767.3				ene.			5		1		se.	0	0	mod.	ne.	clear.
Bk Matthias, N. 33° 38′, W. 58° 10′*†	30.40	772.1	64.0	17.8		s.			4		3		sse.	0	0	3	wnw.	fair.
S. S. New York, N 32° 50′ W. 78° 30′ *†	30.10	764.5	58	14.4		wnw.			6		10		nw.			high	sw.	cloudy.
S. S. Nova Scotian, N. 46° 03′, W. 56° 02′	29.83	757.7	34	1.1		w.			4		10		wsw.			mod.	wsw.	snowy.
S. S. Nederland, N. 46° 56′, W. 43° 35′			42	5.6	83	ssw.			5		2		wsw.	4 h'r	4 h'r	mod.	wsw.	fair.
S. S. Nurnberg, N. 60° 03, W. 4° 08′	30.45	773.4	57.2	14.0		nnw.			4		3		nnw.	0	0	mod.	wnw	clear.
S. S. Oregon, N. 51° 39′, W. 13° 55′	30.62	777.7	50	10.0		calm			0		9		sw.			hv'y	nw.	cloudy.
S. S. Pavonia, N. 51° 12′, W. 11° 12′	30.68	779.3	55	12.8	80	var.			2		9		ne.	0	0	mod.	wnw.	cloudy.
S. S. Picqua, N. 34° 30′, W. 29° 36′ *†	29.95	760.7	61	16.1	94	var.			4		10			0	0			cloudy.
S. S. Republic, N. 41° 25′, W. 62° 15′*†	29.88	758.9	43	6.1		wnw.			5		10			12 h'r	12 h'r	hv'y	sw.	raining.
S. S. Romano, N. 43° 25′. W. 44° 08′			52	11.1		w.			1		0			0	0	sm'h		clear.
Bk. Rosina, N. 28° 04′, W. 64° 06′	30.38	771.6	74	23.3		se.			2		0			0	0	mod.	ne.	clear.
S. S. Salier, N. 50° 22′, W. 21° 30′ *	30.61	777.5				s.			4		10		wnw.	0	0	high	nw.	cloudy.
S. S. St. Albans, N. 24° 30′, W. 81° —′*	30.21	767.3	82	27.8		sse.			1		5		ssw.	0	0	sm'h		fair.
Schr. Viola Reppard, Holme's Hole, Mass†	30.07	763.8	28	— 2.2		nne.			3		5		var.	0	0			fair.
S. S. Valencia, Curacao, W I†	30.07	763.8	79	26.1	78	ne.			5		2		ne.	0	0			clear.
S. S. Westphalia, Havre, France			46	7.8	76	n.			4		7		nne.	0	0			fair.
Bk. Ariadne, N. 33° 22′, W. 72° 10′	30.15	765.8	70	21.1		ssw.			7		5		sw.	0	0	cross	sw.	fair.
Schr. Annie R. Lewis, N. 21° 08′, W. 79° 54′ †	30.26	768.6	78	25.6		ne.			3		8		ne.	0	0	mod.	ene.	cloudy.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.19	766.8				calm			0		fg.		calm	0	0	sm'h		foggy.
U. S. S. Alliance, Port au Prince, Hayti, W. I	30.10	764.5	75	23.9	85	ne.			2		2		calm	0	0	sm'h		clear.
S. S. Britannic, N. 50° 30′, W. 21° 10′*†	30.62	777.7	48	8.9		sw.			3		5		wsw.	0	0	sm'h		fair.
S. S. British Princess, N. 47° 54′, W. 34° 30′†	30.32	770.1	56	13.3		ssw.			4		10			1 h'r	1 h'r	sm'h		misty.
S. S. Chalmette, N. 29° 38′ W. 89° 40′ †	30.33	770.4	39	3.9		nw.			4		3		nw	0	0			clear.
Schr. Ellen Crusoe, Caicos, Bahamas, W I						e.							ne.	2 h'r	2 h'r			cloudy.
S. S. Gallia, N. 42° 25′, W. 50° 57′	30.18	766.6	57	13.9		sw.			6		10		sw.	0	0	mod	sw	overcast
S. S. Germanic, N 48° 23′, W. 34° 42′*†	30.27	768.8	55	12.8	93	ssw.			3		8		s.	1 h'r	1 h'r	short	ssw.	fair.
S. S. Grecian, N. 30° 46′, W. 18° 11′			65	18.3	83	ese.			6		10		ese.	0	0	high	ese.	cloudy.
S. S. Lord Clive, N. 51° 31′, W. 13° 17′	30.64	778.2				w			2		8		n.	0	0	mod.	nw.	cloudy.
S. S. Muriel, N. 21° 35′, W. 64° 13′	30.11	764.8	78	25.6		e.			3		0			0	0	mod.	e.	clear.
S. S. Orinoco, N. 36° 16′, W. 69° 34′			64	17.8		sw.			6		10		sw.	4 h'r	4 h'r	h'vy	sw.	
Bk. Saga, N. 23° 57′, W. 52° 18′ *†	30.24	768.0	73	22.8		var.			6		7		n.	0	0	r'gh	var	fair.
S. Storm King, N. 33° 46′, W. 37° 38′ *†	30.00	762.0				n.			6		4		n.	1 h'r	1 h'r	high	n.	fine.
S. S. State of Nebraska, N. 52° 56′, W. 30° 45′*†	30.34	770.6	45	7.2		sse.			5		10		s.	0	0	sm'h		misty.
S. S. Samaria, N. 48° 50′, W. 30° 15′	30.35	770.9	54	12.2		sse.			4		3		s.	0	0	mod.	sse.	fair.
S. S. Salerno, Hull, Eng			42	5.6		nw.			1		5		wnw.	0	0			hazy.
S. S. St. Laurent, N. 49° 40′, W. 9° 30′			49.1	9.5		n.			1		1		n.	0	0	r'gh	nw.	clear.
U. S. S. Swatara, Port au Prince, Hayti, W.I*	30.07	763.8	75	23.9	85	e.			1		0							clear.
U. S. S. Tennessee, Port au Prince, Hayti, W. I	30.10	764.5	74	23.3	67	ene.	8	3.6			1			0	0			clear.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I	30.05	763.3	77	25.0	72	e.			1		2		calm					fair.
S. S. Weser, N. 50° 16′, W. 2° 14′	30.55	776.0	50.0	10.0		nw.			5–6		0			0	0	r'gh	nw.	clear
S. S. Wyoming, N. 44° 40′ W. 51° 32′	30.00	762.0	44	6.7		ssw.			5		8		wsw.	4 h'r	4 h'r	long	wsw.	drizzling.
S. S. Westernland, N. 49° 19′, W. 24° 57′	30.52	775.2	55	12.8		sse.			6		10		sse.	0	0	long	nw.	overcast.
U. S. Navy Yard, Portsmouth, N.H			15	— 9.4	65	nne.	5	2.2			8		w.	0.05	1.3			fair.
U. S. S. Kearsarge, Genoa, Italy	30.85	783.6	57	13.9	36	n.			2		8							fair.
U. S. S. Lancaster, Villefranche, France	29.88	758.9	56	13.3	87	calm			0		10		se.	0	0	sm'h		threatening.
U. S. S. New Hampshire, Newport, R. I	30.06	763.5	21	— 6.1	85	nw.			4		5					sm'h		fair.
U. S. S. Quinnebaug, Leghorn, Italy	29.84	757.9	50	10.0	79	ene.			1		5		ne.			sm'h		fair.
U. S. S. Shenandoah, N. 28° 55′. W. 31° 27′ *	29.85	758.2	66	18.9	89	ne.			2		5		ne.			sm'h	ne.	fair.
U. S. S. Trenton, Marseilles, France	30.04	763.0	51	10.6	59	nnw.			6–7		2		n.			sm'h		clear.
H. M. S. Alexandra, Malta, Mediterranean	30.09	764.3	66	18.9	68	n.			1		3		n.					d. clouds.
H. M. S. Alecto, N. 5° 31′. W. 0° 11′	29.91	759.7	85	29.4		ssw.			1		9					4	s.	misty.
H. M. S. Comus, N. 7° 20′. W. 21° 45′	29.98	761.5	79	26.1	78	nne.			3		6					1	nne.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.27	768.8	64	17.8	76	sw.			4		4	wsw.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.41	772.4	60.5	15.8	76	ese.			1		0							misty.
H. P. M. S. Douro, Fernando Po, W. Africa	29.92	760.0	85.1	29.5	82	nw.			4		8		nw.			1	nw.	d. clouds
S. S. Ohio, N. 50° 56′, W. 20° 33′ *†	30.63	778.0	49	9.4	85	ssw.			3		10		sw.	0	0	mod.	nw.	cloudy.
S. S Pennsylvania, N. 45° 48′, W. 55° 50′					100	ssw.			6		10			0	0	h'vy	sw.	overcast.
S. S. Polynesian, N. 55° 31′, W. 11° 28′	30.53	775.4	48	8.9		w.			4		7		wnw.	0	0	r'gh	w.	cloudy.
S. S. Scandinavian, N. 54° 25′, W. 17° 16′	30.56	776.2	47	8.3		sw.			4		10		wsw.	shr's	shr's	cf'd	var.	overcast.
S. S. Wisconsin, N. 47° 45′, W. 44° 45′	29.96	761.0	37	2.8		s.			6		8		s.wsw	0	0	rg'h	wsw.	cloudy
S. S. Bohemia, Hamburg, Germany						wsw.			5		8			6 h'r	6 h'r			cloudy.
S. S. Frisia, N. 40° 30′, W. 72° 30′	30.06	763.5	32	0.0		nnw.			4		10		nw.	rain	rain	sm'h	nw.	covered.
S. S. Archimedes, N. 35° 52′, W. 64° 02′	30.15	765.8				sw.			5–6		6		sw.	0	0	long	var.	cloudy.
S. S. Hevelius, Antwerp, Belgium *†	30.30	769.6	40	4.4		n.			6		8		nnw.	1 h'r	1 h'r			cloudy.
S. S. Archimede, N. 35° 51′, W. 6° 30′ †	30.46	773.7	66	18.9		e.			4		2		e.	0	0	sm'h	e.	clear.
S. S. Texas, N. 37° 16′, W. 21° 14′ *†	30.30	769.6	60	15.6	88	se.			5		10			0	0	high	ese.	overcast.
S. S. Erin, London, Eng	30.37	771.4	46	7.8		nw.			4		4		nw.	0	0			fine.
S. S. America, N. 38° 05′, W. 70° —′*	30.01	762.2	48	8.9	92	ne.			3					8 h'r	8 h'r	cross	sw.	covered
S. S. Habsburg, N. 49° 33′, W. 31° 14′						s.			5		6?		s.	5 h'r	5 h'r	mod.	s.	cloudy ?
S. S. Strassburg, N. 13° 30′, W. 26° 20′	30.11	764.8			61	ne.			1–2		6		ne.	0	0	1	ne.	fair.
S. S. Rhynland, Jersey City, N.J	30.12	765.0	24	— 4.4	87	w.			3		0			0	0			clear.
S. S. Waesland, N. 48° 15′, W. 33° 06′	30.28	769.1	55	12.8		ssw.			4		7		sw.	1 h'r	1 h'r	mod.	irreg.	cloudy.
S. S. W. A. Scholten, N 49° 47′ W. 30° 27′			55.8	13.2	94	ssw.			6		4		w.	0	0	5	wsw.	fair.
S. S. State of Nevada, N. 42° —′, W 63° 33′*†	29.95	760.7	38	3.3		ene.			2		10		ne.	13 h'r	13 h'r	long	sw.	rainy.
S. S. Saxon, Boston, Mass †	30.00	762.0	19	— 7.2		nw.			1		4							fair.
S. S. Celtic, N. 50° 27′, W. 20° 53′ *†	30.68	779.3	56	13.3		calm			0		10		calm	0	0	mod.	n.	
S. S. Marengo, N. 42° 20′, W. 4° 00′			41	6.7		sse.			6		0			0	0	mod	ssw.	clear.
Bg. Alcira N. 31° 47′, W. 67° 44′	30.16	766.1	68	20.0		ssw.			4		10		var.	0	0	mod.	var	
S. S. Antonio Lopez, Cadiz, Spain	30.39	771.9	55.5	13.1	65	nnw.			2		0			0	0			clear.
Bgt. Achsah, N. 44° 40′. W 65° 45′ †	30.07	763.8	25	— 3.9		nnw.			6		5?		nne.	1 h'r	1 h'r			clear?
Bk. Bayonnaise, N. 26° 22′ W. 62° 20′ †	30.31	769.9	74.3	23.5		e.			5		4		e.	1 h'r	1 h'r	hv'y	n.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Chas. Stewart, N. 3° 10′, W. 27° 03′*†.	30.04	763.0	82	27.8	.....	n.	.....	.....	2	.....	10	.....	n.	h'vy	h'vy	long	ne.	cloudy.
Schr. Clotilde, N. 26° 20′ W. 84° 23′ †	30.17	766.3	74	23.3	.....	w.	.....	.....	2	.....	8	.....	w.	1 h'r	1 h'r	cross	var.	cloudy.
Bk. Celestina, Cadiz, Spain *†.	30.40	772.1	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear
Bk. U. S. Bushnell, N. 36° 17′, W. 1° 54′	30.38	771.6	.....	.....	.....	wsw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	
S. E. J. Spicer, Liverpool, Eng.	30.42	772.7	46	7.8	92	nw.	.....	.....	5	.....	5	.....	nw.	0	0	.....	.....	fair.
S. E. B. Sutton, N. 30° 00′, W. 40° 20′ *†	30.15	765.8	67	19.4	84	n.	.....	.....	6	.....	2	.....	n.	rain	rain	h'vy	var.	fair.
S. Hedwig, N 35° 53′ W. 6° 14′	30.38	771.6	59.5	15.3	92	ene.	.....	.....	4	.....	0	.....	.....	0	0	2	ene.	fine.
Bk. Heinrich & Tonio, N. 42° 26′, W. 36° 40′ *†.	30.37	771.4	59	15.0	88	nne.	.....	.....	2	.....	7	.....	ne.	0	0	light	e.	cloudy.
Bk. Hattie G. McFarland, Ship Island, Miss†.	30.43	772.9	.....	.....	.....	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	fair.
S. Henry, N. 41° 27′. W. 45° 52′*	30.22	767.6	50.0	10.0	.....	nnw.	.....	.....	2–3	3 c	.....	.....	.....	.....	.....	4	var.	hazy.
Bk. Idaho, Brooklyn, N. Y*†.	30.15	765.8	.....	.....	.....	n.	.....	.....	3	.....	.....	.....	.....	0	0	.....	.....	clear.
Bg. John Wesley, Havana, Cuba, W. I.	.....	.....	.....	.....	.....	ese.	.....	.....	2	.....	3	.....	se.	0	0	.....	.....	clear.
Schr. John L. Thomas, Hobbles Cays, C. A.	30.02	762.5	78	25.6	86	ene.	.....	.....	4	.....	2	.....	e.	½ h'r	½ h'r	h'vy	ene.	clear.
Bg. L & W. Armstrong, N. 16° 48′ W. 60° 20′†.	30.10	764.5	.....	.....	.....	e.	.....	.....	6	.....	1	.....	e.	½ h'r	½ h'r	long	e.	clear.
S. S. Laurel, Egmont Key Light, Fla†.	30.20	767.1	65	18.3	.....	s.	.....	.....	2	.....	8	.....	sw.	sh'rs	sh'rs	.....	.....	cloudy.
S. S. Madrid, N. 36° 33′, W. 2° 46′†.	30.43	772.9	58	14.4	88	w.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	fair.
S. S. P. de Satrastegui, Havana, Cuba, W. I.	30.22	767.6	.....	.....	.....	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	.....	clear.
Bg. Rising Sun, N. 38° 52′, W. 72° 50′	.....	.....	35	1.7	.....	n.	.....	.....	5	.....	10	.....	n.	snow	snow	mod.	ne.	sleeting.
Bk. Rosalie, N. 27° 44′, W. 41° 44′*†.	30.11	764.8	.....	.....	.....	n	.....	.....	6	.....	0	.....	.....	1¾h'r	1¾h'r	high	ne.	clear.
S. Salisbury, N. 34° 05′, W 14° 06′	30.31	769.8	64.8	18.2	82	ese.	.....	.....	6	.....	3 k	.....	ese.	0	0	long	var.	fair.
Bk. Tuck Sing, N. 19° 42′, W. 76° 06′*†	30.12	765.0	.....	.....	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	30.01	762.2	69	20.6	80	nw.	.....	.....	1	.....	2	.....	nw.	.....	.....	sm'h	n.	clear.
U. S. S. Pinta, Pernambuco, Brazil.	30.03	762.7	80	26.7	78	ese.	.....	.....	1	.....	2	.....	se.	.....	.....	sm'h	se.	clear.
H. M. S. Amethyst, S. 34° 58′, W 56° 12′	29.94	760.5	71.5	21.9	96	sw.	.....	.....	2	.....	3	sw.	.....	.....	.....	.....	.....	misty.
H. M. S. Boadicea, S. 22° 30′, E. 3° 04′.	30.04	763.0	73	22.8	.....	se.	.....	.....	2	.....	3	ese.	.....	.....	.....	2	ese.	blue sky.
H. M. S. Opal, S. 9° 02′. E. 12° 10	29.97	761.2	82	27.8	83	s.	.....	.....	2	.....	5	s.	.....	.....	.....	2	sse.	d. clouds.
Bg. Daphne, S. 1° 17′, W. 33° 38′*†	29.90	761.0	80	26.7	82	se.	.....	.....	3	.....	1	.....	sse.	0	0	sm'h	se.	clear.
Bk. Horace Scudder, S. 7° 14′, E. 5° 21′*†.	30.12	765.0	80	26.7	.....	sse.	.....	.....	3	.....	2	.....	s.	0	0	light	s.	clear.
Bkt. Levanter, N. 6° 05′. W. 34° 06′*.	30.05	763.3	85	29.4	.....	se.	.....	.....	4	.....	2	.....	se.	0	0	mod.	ese.	fair.
S. Parker M. Whitmore, S 11° 21′, W. 26° 59′ *†.	30.03	762.7	81	27.2	.....	e.	.....	.....	4	.....	1	.....	e.	0	0	short	e.	clear.
S. St. David, S. 55° 31′, W 62° 07′ *†.	29.56	750.8	53.3	11.8	86	ne.	.....	.....	3	.....	10	.....	var.	4 h'r	4 h'r	r'gh	ne.	rain & fog.
S. David Stewart, Pernambuco, Brazil †.	29.79	756.7	86	30.0	.....	ese	.....	.....	5	.....	2	.....	se.	0	0	.....	.....	
Bk. Godeffroy, S. 57° 14′, W. 66° 35′.	29.51	749.5	48.7	9.3	84	sw.	.....	.....	4–5	.....	5	.....	var.	light	light	mod	var.	fair.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.19	766.8	37.5	3.1	76	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	foggy.
U. S. S. Adams, Sitka, Alaska†	29.56	750.8	39	3.9	91	wsw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	light rain.
U. S. S. Alert, N. 16° 12′. W. 167° 48′	29.95	760.7	75	23.9	72	n.	.....	.....	4	.....	5	.....	n.	.....	.....	long	nne.	fair.
U. S. S. Essex, Canton, China.	30.23	767.8	64	17.8	89	n.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Juniata, Shanghai, China	30.33	770.4	49	9.4	78	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Monocacy, Shanghai, China	30.27	768.8	54	12.2	67	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Ranger, La Union, Honduras	29.98	761.5	77	25.0	77	nw.	.....	.....	1	.....	5	.....	.....	0	0	.....	.....	fair.
U. S. S. Richmond, Shanghai, China	30.28	769.1	52	11.1	79	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	hazy.
H. M. S. Audacious, Hong Kong, China	30.17	766.3	63	17.2	83	calm	.....	.....	0	.....	7	e.	.....	.....	.....	.....	.....	misty.
H. M. S. Cleopatra, off Amoy, China	30.17	766.3	62	16.7	88	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	blue sky.
H. M. S. Champion, Woosung, China	.....	.....	50	10.0	86	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. P. M. S. Tamega, Macao, China	30.22	767.5	65.8	18.8	90	calm	.....	.....	0	.....	10	se.	nw.	0	0	.....	.....	overcast.
S. S. Newbern, N. 27° 38′, W. 115° 02′*†.	30.10	764.5	55	12.8	56	nw.	.....	.....	3	.....	0	.....	.....	0	0	small	wnw.	clear.
S. S. Oceanic, N. 34° 14′, E. 146° 06′.	29.87	758.7	63	17.2	78	w.	.....	.....	6–7	.....	5	.....	wnw.	0	0	4	w.	fair.
S. S. Columbia, N. 45° 54′, W. 124° 06′ *†.	30.17	766.3	50	10.0	93	s.	.....	.....	5	.....	10	.....	sw.	.....	.....	mod.	s.	misty.
S. S. Oregon, San Francisco, Cal.†	30.30	769.6	45	7.2	84	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Alameda, San Francisco, Cal. †	30.32	770.1	45	7.2	92	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Aucon, San Francisco, Calf.	30.28	769.1	45	7.2	76	nnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Chester, Eureka, Cal.†	30.39	771.9	38	3.3	90	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	.....	
S. S. Orizaba, N. 33° 46′, W. 118° 25′†.	30.15	765.8	62	16.7	83	e.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	w.	clear.
S. S. Queen of the Pacific. San Francisco, Cal. †	30.31	769.9	46	7.8	84	nw.	.....	.....	1	.....	0	.....	.....	0	0	long	.....	clear.
S. S. State of California, Portland, Oregon.	30.27	768.8	40	4.4	100	calm	.....	.....	0	.....	10	.....	s.	.....	.....	.....	.....	cloudy.
S. S. City of Pekin, N. 38° 05′, E. 154° 00′	.....	.....	44	6.7	68	nw.	.....	.....	6	.....	10	.....	.....	.....	.....	h'vy	nw.	cloudy.
S. S. Colima, N 20° 29′, W 105° 54 †.	30.01	762.2	70	21.1	90	n.	.....	.....	2	.....	1†	.....	calm	0	0	small	nw.	fair.?
S. S. Granada, Champerico, Guatemala†.	29.97	761.2	77	25.0	86	calm	.....	.....	0	.....	0	.....	.....	0	0	light	.....	clear.
Bk. Alpheus Marshall, N. 0° 48′. E. 169° 32′*†.	29.67	753.6	79	26.1	91	ssw.	.....	.....	2	.....	7	.....	ene.	2 h'r	2 h'r	light	var.	fair.
S. S. Radnorshire, Singapore, Malay Pen*†	29.90	759.4	.....	.....	.....	nne.	.....	.....	5	.....	10	.....	nne.	hv'y	hv'y	.....	.....	cloudy.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 25° 25′, W 75° 48′.	29.98	761.5	67	19.4	95	sse.	.....	.....	4	.....	2	.....	sse.	.....	.....	sm'h	s.	clear.
U. S. S. Iroquois, Talcahuano, Chili.	29.69	761.7	59	15.0	82	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Lackawanna, S. 26° 45′. W. 74° 39′.	29.98	761.5	66	18.9	84	s.	.....	.....	4	.....	5	.....	s.	.....	.....	mod.	s.	fair.
U. S. S. Onward, Callao, Peru *†.	30.06	763.5	68	20.0	84	se.	.....	.....	1	.....	10	.....	se.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru*†.	30.14	765.5	68	20.0	95	se.	.....	.....	1	.....	8	.....	s.	.....	.....	sm'h	.....	cloudy.
H. M. S. Diamond, S. 36° 40′, E. 150° 00′	30.16	766.1	65	18.3	84	e.	.....	.....	3	.....	8	e.	.....	.....	.....	3	ne.	d. clouds.
H. M. S. Lark. S. 36° 50′, E. 174° 48′.	29.95	760.7	60	15.6	82	w.	.....	.....	1	.....	3	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.87	758.7	64	17.8	.....	nne.	.....	.....	4	.....	4	nne.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	30.04	763.0	53	11.7	100	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.71	754.6	55	12.8	81	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Australia, S. 35° 23′, E. 175° 58′.	30.10	764.5	64	17.8	.....	se.	.....	.....	3	.....	4	.....	ssw.	0	0	mod.	ssw.	clear.
S. S. City of Sydney, S. 18° 28′, W 172° 52′*†.	29.68	753.9	82	27.8	79	w.	.....	.....	1	4 ck	.....	se.	.....	.....	.....	mod.	sse.	clear.
S. S. George S. Homer, S. 24° 51′ W. 122° 46′ *†	30.14	765.5	.....	.....	.....	ese.	.....	.....	2	.....	7	.....	sse.	0	0	long	var.	fair.
S. S. Ismir, S. 20° 16′, W. 71° 48′*	30.25	768.3	.....	.....	.....	ssw.	.....	.....	1	.....	8	.....	ssw.	0	0	sm'h	n.	cloudy.
S. St. Francis, S. 33° 15′, W. 80° 50′*†.	30.28	769.1	66	18.9	79	w.	.....	.....	2	.....	1	.....	sw.	0	0	long	wsw.	clear.
S. Grecian, S 23° 52′, W. 127° 40′ †.	30.18	766.6	78	25.6	78	ese.	.....	.....	5	.....	2	.....	ese.	0	0	long	s.	clear.
S. Henry Falling, S. 27° 40′, W. 126° 49′*†	30.12	765.0	75	23.9	?	se.	.....	.....	1	.....	2	.....	n	0	0	sm'h	sse.	clear.
H. M. S. Espiegle, S. 45°, 49′, E. 170° 39′.	29.58	751.3	52	11.1	73	sw.	.....	.....	3–6	.....	8	.....	.....	.....	.....	.....	.....	showery.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Hellville, Nos Beh Isds., Africa.	29.86	758.4	82	27.8	87	wsw.	9	4.0	.....	.....	10	.....	w.	0.10	2.5	sm'h	.....	cloudy.
U. S. S. Pensacola, S. 17° 15′, E. 61° 11′*	29.89	759.2	82	27.8	75	ene.	.....	.....	3	.....	5	.....	ene.	0	0	mod.	ene.	fair.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′.	30.03	762.7	80	26.7	82	calm	.....	.....	0	.....	10	.....	.....	.....	.....	sm'h	.....	overcast.
H. M. S. Euryalus, Suakin, Egypt.	29.98	761.5	75	23.9	81	n.	.....	.....	2	.....	5	se.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Orontes, S. 0° 38′, E. 53° 42′.	29.95	760.7	79	26.1	100	n.	.....	.....	3	.....	8	.....	.....	.....	.....	1	n.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.92	760.0	81	27.2	87	n.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Woodlark, N. 22° 25′, E. 37° 00′.	29.94	760.5	83	28.3	75	ne.	.....	.....	2–4	.....	3	calm	.....	.....	.....	1	ne.	d. clouds.
S. S. Galatia, N. 8° 51′, E. 63° 56′†	29.98	761.5	79	26.1	86	nne.	.....	.....	3	.....	4	.....	ne.	½ h'r	½ h'r	mod.	nne.	fair.
S. S. Port Phillip, N. 7° 44′, E. 57° 28′ *.	29.95	760.7	80	26.7	.....	ne.	.....	.....	4	.....	.....	.....	.....	.....	.....	mod.	ne.	clear.
S. Carondelet, S. 15° 44′, E. 116° 50′ *†.	29.85	758.2	.....	.....	.....	e.	.....	.....	2	.....	5	.....	e.	¾ h'r	¾ h'r	sm'h	ssw.	fair.
S. S. Lepanto, Bombay, India.	30.01	762.2	88	31.1	.....	ne.	.....	.....	3	.....	1	.....	.....	0	0	.....	.....	clear.
H. M. S. Magpie, N. 8° 29′, E. 97° 39′.	29.92	760.0	81.0	27.2	74	nw.	.....	.....	1	.....	8	.....	wsw	.....	.....	1	ne.	d. clouds.

International Chart I. January 12, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 13, 1884,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.35	770.8	61.9	16.6	73	w.			1		0			0	0	clear	Roziere.
Algiers			30.34	770.6	49.3	9.6	92	ne.			1		10			0.543	13.8	covered	Aubert.
La Galle			30.18	766.5	59.4	15.2	68	nw.			3		3			0.394	10.0	pretty fair	Fonfrède.
Tunis			30.11	764.9	54.7	12.6	38	n.			5		3			0	0	pretty fair	Delord.
Tebessa					53.6	12.0	89	n			3		4			0	0	cloudy	Hans.
Geriville					46.4	8.0	62	n.			1		1			0	0	very fair	Forfert.
Laghouat			30.34	770.5	54.0	12.2	70	calm			0		0			0	0	clear	Abraham,
Biskra			30.22	767.7	54.7	12.6	61	n.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.64	752.8	92.0	33.3	23	calm	0	0			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.45	748.0	29.64	752.8	68	20.0	66	nw.			3		10		nw.	0	0	cloudy	Com. I. Short, R.N.
Melbourne, Victoria	29.64	752.8	29.73	755.1	77.0	25.0	47	n.	3	1.3			10			0	0		R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.54	750.2	30.11	764.7	39.2	4.0	69	ne.			5		1			0.063	1.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.24	742.6	30.04	763.0	31.6	— 0.2	79	w.	5.6	2.5			10			0.008	0.2		Dr. Wierzbiski
Eperies	29.08	738.5	29.98	761.6	36.3	2.4	86	calm			0		7s;fg		s.	0.059	1.5		Julius Mikolik.
Gratz	28.91	734.2	30.22	767.7	32.4	0.2	65	nw.			6		0			0	0		Andreas Rospini.
Hermannstadt	28.47	723.2	29.97	761.3	30.2	— 1.0	80	nw.			3		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28 88	733.5	30.30	769.5	31.1	— 0.5	90	w.			2		9			0	0		The Staff.
Lemberg	28.87	733.3	29.90	759.4	31.5	— 0.3	79	w.			4		4			0.004	0.1		Dr. T. Stanecki.
Pola	30.00	762.1	30.12	765.0	45.7	7.6	41	n.			5		3			0.024	0.6		I. R. Hydrographic Office.
Szathmar	29.48	748.9	29.98	761.4	28.2	— 2.1	92	nw.			3		10			0.016	0.4		Joseph Midlinszky, S. J
Szegedin	29.71	754.7	30.00	762.1	35.2	1.8	80	nw.			1		9			0	0		Karl Stancel.
Trieste	30.08	763.9	30.17	766.4	45.0	7.2	33	n.			3		3			0	0		Royal Academy.
Vienna	29.45	747.9	30.20	767.1	33.4	0.8	63	nw.			3		2			0.028	0.7		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.89	733.8	30.33	770.3	37.6	3.1	98	w.			2		4			0.039	1.0		
Brussels	30.21	767.4	30.42	772.7	41.9	5.5	91	wsw.			3		10		w.	0	0		
Furnes	30.40	772.2	30.42	772.7	44.1	6.8	86	nw.			1		10			0	0		
Maeseyck	30.24	768.2	30.37	771.4	40.5	4.7	94	nw.			1		10			0.181	4.6		
British.																			
Aberdeen	30.10	764.5	30.20	767.1	46.4	8.0	75	wsw.	8	3.6			2			0	0	blue sky	W. Roswell.
Bidston, Liverpool Obs'y			30.42	772.7	44.7	7.1	92	w.	4	1.8			10					overcast	John Hartnup.
Bolton, Sharples	29.85	758 2	30.40	772.1	43.2	6.2	98	w.	15	6.7			10					drizzling	Thomas Mackereth.
Bradford, Yorkshire																0	0		McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.05	763.3	30.08	764.0	74	23.3	86	ne.			3		3					blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	30.34	770.6	30.46	773.7	43.6	6.4	84	w.			0.6		10					overcast	John McLaren.
Chatham, School M. E.	30.29	769.4	30.47	773.9	44.1	6.7	86	calm			0		10					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.36	771.1	30.60	777.2	47.6	8.7	74	wnw.			2		4					d. clouds	The Staff.
Fort Napier, Natal	27.63	701.8	29.94	760.5	81.0	27.2	61	ne.			1		7					d. clouds	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.65	753.1	29.86	758.4	85	29.4	64	n.			2		0					blue sky	J. W. Smith.
Galway, Queen's College	30.44	773.2	30.48	774.2	46	7.8	92	wsw.			1		8			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.35	770.9	30.40	772.1	62.0	16.7	88	ne.			3		8					gloomy	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	30.29	769.4	30.47	773.9	44.0	6.7	80	w.			2		10					foggy	The Staff.
Guernsey	30.28	769.1	30.59	777.0	46.3	7.9	82	nnw.			1		10					overcast	A. Collenette, F.R.M.S.
Kew, Observatory	30.45	773.4	30.49	774.4	44.2	6.8	78	w.	10	4.5			10					misty	The Staff.
Leicester, Museum	30.19	766.8	30.46	773.7	45.6	7.6	80	w.			1		9					overcast	J. C. Smith.
Malta, Mediterranean	29.62	752.3	29.70	754.4	56.2	13.4	72	nw.			3		4			0.03	0.8	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.18	766.6	72.0	22.2	90	ne.			2		9					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.24	768.1	30.47	773.9	43.8	6.6	86	w.			2		10					overcast	The Staff.
Plymouth	30.48	774.2	30.55	776.0	43.7	6.5	94	calm			0		10					misty	John Merrifield.
Sandwick Manse, Orkneys	29.96	761.0	30.06	763.5	44.8	7.1	92						10					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.77	756.1	29.83	757.7	49.6	9.8	87	w.			1		10					showery	W. H. Lyne.
Sheffield	30.10	764.5	30.39	771.9	46.1	7.8	86	w.			2		9			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.34	770.6	30.37	771.4	44.9	7.2	94	w.			2		8			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.42	772.7	44.0	6.7	92	w	20	8.9			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					46.3	7.9	84	w.			0.8		10					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.53	775.4	30.56	776.2	47.1	8.4	88	w.	14	6.3			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.34	745.2	29.73	755.1	53.6	12.0	76	nw.	7.5	3.4			10 n			0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.92	760.0	29.96	761.0	— 7.0	—21.7		calm	0	0		0	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.81	757.2	29.85	758.2	10	—12.2	92	n.	8	3.6			8 n		n.	0.005	0.1	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.89	759.2	29.96	761.0	—11	—23.9	95	n.	1	0.4		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.67	753.6	29.88	758.9	0.0	—17.8	100	e.			1		10 s			0.020	0.5	overcast	Jas. Smith, M. A.
Dalhousie, N. B	29.93	760.2	29.99	761.7	— 8.0	—22.2		calm			0	c	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	29.89	759.2	29.91	759.7	4	—15.6	91	s.	8	3.6			8 n		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.82	732.0	29.73	755.1	5	—15.0	100	n.	15	6.7			10 n			0.18	4.6	cloudy	James Stewart.
Fredericton, N. B	29.93	760.2	30.00	762.0	— 2.9	—19.4	97	w.	3.0	1.3		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	29.90	759 4	29.96	761.0	13	—10.6	96	ne.	9	4.0			10 ks		ne.	0.01	0.3	cloudy	J. Chipman Seeley
Granton, Ontario	28 56	725.4	29.73	755.1	18.4	— 7.6	94	s.	10	4.5			10 n			inap.	inap.	snowing	Jas. Grant.
Halifax, N. S*	29.75	755.6	29.89	759 2	13	—10.6	96	nw.	4	1.8		2 k	0	nw.		0	0	fair	A. Allison.
Hamilton, Ontario	29.25	742.9	29.68	753.9	19.7	— 6.8	92	sw.			2	10 ck	0	sw.		0.100	2.5	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.53	750.0	29.89	759.2	18	— 7.8	83	w.	1	0.4			10 n		calm	0.04	1.0	light snow	A. P. Knight, M. A.
Little Grace Bay, N. S	29.69	754.1	29.74	755.4	19.0	— 7.2	100	n.	5	2.2		6 k	0	w.		0	0	fair	C. H. Rigby.
London, Ontario	28.74	730.0	29.60	754.1	22.8	— 5.1	86	s.			2		10 n			0.50	12.7	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.60	701.0	29.96	761.0	29	— 1.7	96	w.	10	4.5		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	27.74	704.6	29.87	758.7	— 2	—18.9	100	n.	20	8.9		5 ck	5 k	nw.	nw.	0.10	2.5	cloudy	Rev. J. M. Wellwood
Montreal, Quebec*	29.70	754.4	29.93	760.2	— 3	—19.4	87	s.	12	5.4			10 n			inap.	inap.	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	29.65	753 1	29.90	759.4	3.0	—16.1	79	w.					10 s			0.50	12.7	overcast	A. McCill, M. A.
Parry Sound, Ontario*	28.95	735.3	29.68	753.9	19	— 7.2	91	s.	20	8.9			10 n		s.	0.53	13.5	light snow	Rev. R. Mosley.
Peterboro, Ontario	28.99	736.3	29.78	756.4	18.5	— 7.5	74	w.			2		10 k			0.21	5.3	snowing	Wm. O'Connor, M.A.
Port Arthur	28.69	728.7	29.43	747.5	12	—11.1	83	nw.	7	3.1			10 ks			0.18	4.6	cloudy	W. P. Cooke.
Port Dover, Ontario	29.03	737.3	29.76	755.9	24	— 4.4	100	s.	17	7.6			10 n			0.23	5.8	light snow	H. Morgan.
Port Stanley, Ontario	29.11	739.4	29.79	756.7	23	— 5.0	92	e.	8	3.6			10 n		e.	0.06	1.5	cloudy	M. Payne.
Qu Appelle, N. W. T	27.64	702.0	30.15	765.8	0	—17.8		ne.	6	2.7		10 cs	0	calm		inap.	inap.	cloudy	Leslie Gordon.
Quebec, Quebec*	29.58	751.3	29.98	761.5	— 3	—19.4	69	calm	0	0		10 ck	0	sw.		0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.28	743.7	29.79	756.7	4	—15.6	96	se.	12	5.4			10 n			0	0	threatening	W. H. McIlwrie.
St. Andrews, N. B	29.90	759.4	29.95	760.7	5	—15.0	100	n.	3	1.3		0	0			0	0	clear	
St. John, N. B	29.78	756.4	29.94	760.5	6.0	—14.4	86	n.	16	7.2		0	0			inap.	inap.	blue sky	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			29 45	748.0	28.8	— 1.8		n.			2								The Commandant.
Saugeen, Ontario*	28.87	733.0	29.64	752.8	15	— 9.4	96	se.	27	12.1			10 s			0.32	8.1	light snow	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.40	721.3	29.76	755.9	16.1	— 8.8	93	se.	6	2.7			10 n			0.200	5.1	snowing	W. Mc Bride, M. A.
Sydney, C. B*	29.65	753.1	29.71	754.6	21	— 6.1	84	n.	16	7.2			10 n			0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.44	747.8	29.85	758.2	21	— 6.1	96	sw.	12	5.4			10 n			0.12	3.0	light snow	Magnetic Observatory.
Woodstock, Ontario	28.68	728.5	29.81	757.2	18.6	— 7.4	84						10 n			0.500	12.7	snowing	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.85	758.2	29.92	760.0	19	— 7.2	76	e.	1	0.4			8 k		nw.	0.01	0.3	light snow	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.86	758.4	29.89	759.2	71.5	21.9	92	ne.				0	4 k			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.86	758.4			79.5	26.4	42	nw.				1 c	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.84	707.1			82	27.8	42									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.89	759.2	29.97	761.2	63.9	17.7	89	w.			2	10	0					cloudy	Samuel Redolez.
Iquique	29.84	757.8	29.86	758.5	68.0	20.0	77	sw.			2							cloudy	Rafael Moreno.
Niebla	29.59	751.5	29.69	754.2	64.4	18.0	78	e.			1	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.87	758.6	29.95	760.8	69.8	21.0	75	nw.			3	5 c	0	nw.				fair	Manuel Tobar.
Punta Corona	29.87	758.7	30.06	763.4				w.			1		10			0.150	3.8	drizzling	Francisco Alvarado.
Valparaiso	29.68	753.9	29.82	757.4	61.3	16.3	88	sw.				0	0					hazy	Paez-I-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.27	768.8	30.29	769.4	40.8	4.9	82	e.	5.6	2.5			0			0	0		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.04	763.0	30.09	764.2	34.0	1.1	87	w.	13	6			10						Oversergent Fischer.
Fanö	30.13	765.4	30.15	765.9	37.9	3.3	85	w.			4		10					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.36	745.7	29.40	746.8	12.2	—11.0		wsw.			4–6		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.03	737.4	29.08	738.5	35.2	1.8	84	sw.			6		10					raining	A. O. Thoriacius.
Thorshavn	29.73	755.2	29.76	755.8	45.5	7.5	91	w.	29	13			10					raining	Overloerer Bergh.
Vestervig	29.95	760.7	30.04	763.1	36.7	2.6	100	w.			4		10					raining	Loerer Oesterool.
Egyptian.																			
Cairo	29.81	757.1			71.1	21.7		n.	2.5	1.1		0	2 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	30.00	762.1	30.69	779.4	42.4	5.8	88	nw.			1					0	0	dense mist.	M. Labroue, Director.
Alençon, Normal School	30.04	763.1	30.60	777.1	41.4	5.2	94	nne.			1		5 s		ssw.	0	0	cloudy	M. Nicot, Director.
Arras, Normal School			30.41	772.5	42.1	5.6	90	w.			1		2		n.	0.012	0.3	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	30.22	767.6	30.30	769.6	45.0	7.2	46	nnw.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.96	761.0	30.55	776.0	34.7	1.5	95	sw.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.24	768.2	30.52	775.3	42.8	6	88	nw.			1		10		nw.	0	0	covered	M. Frère Eugène Martè.
Besançon, Normal School	29.56	750.9	30.49	774.5	35.2	1.8	93	s.			1		10		n.			raining	M. Gobin, Director.
Bordeaux, Observatory	30.35	770.8	30.62	777.8	40.8	4.9	91	wnw.			1		0			0.008	0.2	clear	M. Rayet, Director.
Bourges, Normal School	29.99	761.8	30.58	776.6	38.3	3.5	90	sw.			1				sw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	30.39	771.8	30.63	778.0	47.1	8.4	86	calm			0		10			0	0		M. de Kermarée, Dir.
Caen, Normal School	30.47	773.8	30.55	775.9	46.8	8.2	100	w.			1		5		n.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.15	765.9	30.49	774.4	39.7	4.3	97	sw.			1		5			0.004	0.1	cloudy	M. Jadot, Director.
Charleville, Normal School	29.92	760.0	30.44	773.2	39.4	4.1	83	se.			2					0	0		M. Noël, Director.
Clermont-Ferrand Obs'y	29.15	740.3	30.58	776.7	37.2	2.9	80	nnw.			1		10			0	0		M. Allnard, Director.
Cluny, Normal School	29.68	753.8	30.58	776.6	34.7	1.5	89	w.			1		9		w.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.60	751.8	30.49	774.5	36.3	2.4	96	w.			1		10	w.	w.	0.016	0.4	foggy	Dr. Coulet, Director.
Gap, Normal School	27.70	763.5	30.33	770.4	38.3	3.5	35	e.			1		0			0	0		M. Jarach, Director.
Grésque, du Rhone	29.10	739.0	30.26	768.6	44.2	6.8	44	n.			2		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.64	752.9	30.45	773.3	41.4	5.2	56	n.			2				n.	0	0		M. Ablard, Director.
Guéret, Normal School	28.96	735.5	30.63	777.9	35.6	2	82	nw.			1		n		nw.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Polipre, Director
Lescar, Normal School	30.01	762.2	30.59	776.9	49.1	9.5	48	ene.			1	c				0.047	1.2	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.53	775.5	30.63	778.1	51.4	10.8	65	sw.			1		10	n.	w.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.42	747.3	30.53	775.4	38.7	3.7	70	nnw.			8	ck	5 n		nnw.	0	0	cloudy	M. André, Director.
Mans, Normal School	30.28	769.0	30.45	773.3	33.8	1		nw.			1	5 c			nw.	0	0	cloudy	M. Richard, Director.
Marseille, Observatory	29.97	761.1	30.24	768.1	47.7	8.7	41	nw.			2		0			0	0		M. Stephan, Director.
Montlouis	25.06	636.4	29.90	759.4	35.6	2.0	67	n.	20.6	9.2			5		n.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.22	767.6	30.33	770.4	52.9	11.6	62	nnw.			4		0			0	0	clear	M. Gulzin, Director.
Nancy, Normal School	29.64	752.9	30.46	773.7	36.7	2.6	93	wsw.			1		kn			0	0		M. Hasse, Director.
Nantes, Observatory	30.49	774.4	30.65	778.6	45.5	7.5	81	wnw.			1		8 k; kn		nnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.32	770.1	30.43	773.0	49.3	9.6	34	nw.	22.4	10.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.39	543.4			24.3	— 4.3		ene.			2		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.30	744.2	30.40	772.2	45.0	7.2	46	n.			4		n	n.	n.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.45	646.4			21.7	— 5.7	100	n.			3		5			0.051	1.3		M. Allnard.
Rochefort, Naval Obs'y	30.60	777.2	30.63	778.0	43.9	6.6	82	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.32	770.0	30.54	775.7	43.5	6.4	82	n.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.22	716.9	30.47	774.0	34.9	1.6		nw.			1		1		se.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.49	774.5	30.54	775.7	46.8	8.2	89	nw.			1		10	ne.		0	0	covered	M. Mouillot, Dir.
St. Lô, Normal School			30.49	774.5	36.5	2.5	57	nw.			1		n	nw.	nw.	0	0		M. Delaplanche, Dir.
Saint Maur, Observatory	30.37	771.3	30.53	775.5	39.7	4.3	93	sw.			1				nw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.88	759.0	30.62	777.7	41.7	5.4	74	nw.			1		2	wnw.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	30.42	772.6	30.60	777.1	42.1	5.6	84	wnw.			1					0	0		M. de Tastes.
Versailles, Observatory	30.02	762.5	30.51	775.0	38.8	3.8	97	ne.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.47	773.8	30.61	777.6	45.3	7.4	71	e.	5.8	2.6						0.016	0.4	misty	M. Cartier, Director.
German.																			
Ansbach	28.88	733.5	30.42	772.6	32.4	0.2	79	calm			0		5			0.346	8.8		Prof. Juedt.
Bamberg	29.44	747.7	30.29	769.3	35.6	2.0	84	w.			2		4 k		w.	0.024	0.6		Prof. Dr. Hoh.
Berlin	30.05	763.3	30.20	767.1	34.9	1.6	71	nw.			2		1			0.075	1.9		Meteorological Institute
Breslau	29.59	751.5	30.12	765.0	31.3	— 0.4	79	nw.			4		10			0.134	3.4		Royal University Obs'y
Carlsruhe	25.96	760.9	30.44	773.2	38.8	3.8	86	sw.			2		10	nw.		0.224	5.7		Albert Senz.
Cassel	29.61	752.0	30.32	770.1	37.0	2.8	77	s.			1		4	s.		0.063	1.6		Dr. H. Möhl.
Frankfort-on-the-Main	30.02	762.5	30.40	772.2	39.6	4.2	74	nw.			1		2			0.004	0.1		Physical Society.
Friedrichshafen	28.96	735.5	30.45	773.5	34.2	1.2	89	wnw.			3		10	w.		0.201	5.1	rain & snow	Wilhelm, Chief Tel.
Hamburg	30.17	766.3	30.26	768.6	38.3	3.5	80	w.			2		10			0.004	0.1	hazy	E. Preiler.
Kiel	30.17	766.2	30.18	766.6	36.7	2.6	82	w.			2		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.84	758.0	30.28	769.2	35.2	1.8	68	nw.			3		0			0.039	1.0		H. Leppig, Asst.
Magdeburg	30.06	763.6	30.26	768.6	36.9	2.7	74	wnw.			2		1	n.		0	0		Weather Observatory.
Memel	29.84	757.9	29.89	759.1	34.5	1.4	94	nw.			5		10 ks						Issermann.
Munich	28.47	723.2	30.35	771.0	32.9	0.5	68	w.			2		4	nw.		0.240	6.1		Central Station.
Neufahrwasser	29.94	760.5	29.96	760.9	33.8	1.0	80	nw.			3		9			0.008	0.2		A. Lothes.
Neustadt, Palatinate	29.84	757.8	30.37	771.4	38.8	3.8	78	w.			1		10			0.276	7.0	raining	Dicknether.
Stuttgart	29.43	747.6	30.37	771.4	37.4	3.0	74	w.			1		9	n.		0.091	2.3		Prof. Dr. Schoder.
Wustrow	30.13	765.3	30.15	765.9	36.3	2.4	85	wnw.			4		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.43	747.5	29.82	757.4	55.2	12.9		s.			1.0		10			1.532	38.9	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.97	761.2	30.02	762.5	73.4	23.0	70	wsw.	22.0	9.8			1			0	0	d. clouds	
Deesa	29.52	749.8	30.00	761.9	79.7	26.5	32	wsw.	5.0	2.2			0			0	0	blue sky	
Bombay	29.97	761.3	30.01	762.2	76.5	24.7	64	nw.	12.0	5.4			0			0	0	blue sky	
Poona, Yarrowda	28.12	714.2	29.98	761.4	80.5	26.9	26	nw.	11.0	4.9			0			0	0	blue sky	
Belgaum	27.44	697.0	29.99	761.8	75.6	24.2	23	ese.	2.0	0.9			0			0	0	blue sky	
Lahore	29.25	742.9	30.03	762.6	61.6	16.4	72	calm	0	0			0			0	0	blue sky	
Roorkee	29.12	739.7	30.05	763.3	66.8	19.3	50	calm	1.0	0.4			0			0	0	blue sky	
Agra	29.45	748.1	30.03	762.8	74.2	23.4	42	e.	8.0	3.6			0			0	0	blue sky	
Nagpur	28.96	735.6	30.02	762.4	77.5	25.3	28	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.64	727.5	30.03	762.7	71.1	21.7	38	calm	0.9	0.4			0			0	0	blue sky	
Lucknow	29.69	754.1	30.08	764.1	67.3	19.6	31	calm	0	0			0			0	0	blue sky	
Allahabad	29.75	755.6	30.07	763.8	63.9	17.7	73	calm	0	0			0			0	0	blue sky	
Patna	29.89	759.1	30.08	764.1	65.2	18.4	66	ne.	2.0	0.9			0			0	0	blue sky	
Hazaribagh	27.98	710.8	30.05	763.4	66.1	18.9	41	wsw.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.95	760.8	30.04	762.9	73.0	22.8	58	nnw.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	30.02	762.6	30.05	763.2	68.4	20.2	72	calm	0	0			3			0	0	d. clouds	
Dhubri	29.96	761.0	30.09	764.2	64.9	18.3	65	calm	0	0			0			0	0	blue sky	
Chittagong	29.98	761.6	30.08	763.9	65.6	18.7	65	w.	3.0	1.3			1			0	0	d. clouds	
Sibsagar	29.76	755.9	30.12	765.0	58.1	14.5	83	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.54	724.9	30.01	762.3	71.6	22.0	39	w.	4.6	2.1			0			0	0	blue sky	
Zanzibar	29.92	759.8	29.94	760.4	85.9	29.9	53	ne.	9.8	4.4			1			0	0	d. clouds	
Bellary	28.51	724.1			78.0	25.6	34	e.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.74	755.4			77.9	25.5	57	ne.	0.2	0.04		3	5			0	0	d. clouds	
ITALIAN.																			
Udine	29.74	755.3	30.16	766.1	43.0	6.1	39	ne.	0.7	0.3			9			0	0		Prof. Giovanni Clodig.
Milan	29.65	753.2	30.19	766.9	49.3	9.6	23	n.	13.0	5.8			0			0	0		Prof. G. V. Schiapparelli
Padua	30.05	763.2	30.16	766.1	45.7	7.6	35	ne.	8.1	3.6			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.27	743.4	30.21	767.4	41.0	5.0	54	e.	3.8	1.7			0			0	0		Prof. F. F. Denza.
Genoa	29.97	761.1	30.16	766.1	50.2	10.1	16	nw.	6.9	3.1			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.10	764.4	30.15	765.7	43.3	6.3	61	nw.	16.8	7.5			1			0.016	0.4		Prof. Luigi Guidi.
Florence	29.83	757.6	30.09	764.3	42.8	6.0	76	ne.			2		0			0	0		Prof. Costantino Pittei
Leghorn	29.98	761.4	30.06	763.6	47.8	8.8	32	ne.	4.3	1.9			0			0	0		Prof. P. Monte.
Rome	29.85	758.1	30.03	762.7	50.0	10.0	28	n.	16.1	7.2			0			0	0		Prof. P. Tacchini.
Lecce	29.58	751.2	29.84	757.9	45.0	7.2	63	nne.	28.6	12.8			10		n.	0.059	1.5		Prof. C. de Giorgi.
Cosenza	28.96	735.5	29.88	759.0	42.4	5.8	70	wnw.	4.3	1.9			10		w.	0.024	0.6		Prof. D. Conti.
Cagliari	29.86	758.5	30.06	763.5	54.3	12.4	33	nw.			4		2			0	0		Prof. A. Pacinotti.
Palermo	29.62	752.4	29.88	758.9	49.8	9.9	78	nne.	13.6	6.1			10		nne.	0.146	3.7		Prof. G. Cacciatore.
Syracuse	29.65	753.2	29.70	754.3	55.2	12.9	65	nne.	18.6	8.3			10		ne.	0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.40	746.7	29.93	760.3	46.8	8.2	38	nne.	2.5	1.1			1			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.91	759.8	29.94	760.7	37.0	2.8	63	w.			7	4 ck	6k;ks	w.	w.	0.098	2.5	cloudy	H. Hattori.
Awomori	29.72	754.9	29.76	755.9	33.2	0.7	67	sw.	31.8	14.2			10 n		w.	0.115	2.9	light snow	K. Ogawa.
Hakodate	29.64	752.9	29.65	753.2	34.5	1.4	77	wsw.	9.0	4.0			10 s			0.258	6.6	snowing	Y. Souma.
Hamamatsu	29.98	761.5	30.08	764.0	42.5	5.8	79	calm			0	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.19	766.8	30.20	767.2	42.1	5.6	73	w	3.5	1.5		0	0			0	0	clear	Y. Okamoto.
Kagoshima	30.26	768.6	30.27	768.9	42.9	6.1	89	calm			0	0	1 s			0.020	0.5	clear	
Kanazawa	30.00	762.0	30.11	764.7	40.0	4.4	88	s.	6.2	2.8			10ks;s		sw.	0.304	7.7	overcast	S. Endo.
Kioto	29.96	761.1	30.14	765.5	36.1	2.3	93	wnw.	0.1	0.04			2ck;ks		nw.	0	0	clear	M. Tojima.
Kochi	30.14	765.5	30.16	766.0	43.9	6.6	72	w.	1.7	0.7		0	0			0	0	clear	K. Kusunose.
Miasaka	30.19	766.9	30.22	767.6	48.2	9.0	71	wnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.63	752.7	29.74	755.2	40.3	4.6	61	wsw.	23.8	10.6		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.07	763.8	30.28	769.1	46.9	8.3	76	calm	0	0		0	8 s		hw.	0	0	cloudy	
Nemuro	29.62	752.3	29.67	753.6	33.5	0.8	85	ene.	9.0	4.0			10 n			0.38	9.7	snowing	A. Shibuya.
Niigata	29.97	761.2	30.01	762.2	42.6	5.9	81	w.	16.9	7.5			10ks;s		sw.	0.290	7.4	cloudy	Satoo & Tomikawa.
Nobiru	29.88	758.8	29.89	759.2	39.4	4.1	80	nw.	8.5	3.8		0	1s;ks			0.005	0.1	clear	Yoshino & Midzushina.
Numadzu	29.93	760.2	29.97	761.2	41.4	5.2	80	ne.			2	0	0			0	0	clear	T. Ohgi.
Osaka	30.12	765.0	30.14	765.4	42.9	6.1	85	s.	6.2	2.8		0	0			0	0	clear	H. Omura.
Sakai	30.15	765.9	30.16	766.1	45.9	7.7	61	wsw.			2		10 ks		wsw.	0	0	cloudy	Yamawchi & Sakamoto.
Sapporo	29.48	748.7	29.55	750.5	34.8	1.6	69	sw.	10.7	4.6		0	1 s		s.	0	0	clear	S. Kimura.
Shimonoseki	30.09	764.3	30.24	768.0	46.4	8.0	66	sw.			4	0	8s;ks		w.	0.012	0.3	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.89	759.2	29.97	761.2	41.2	5.1	72	nnw.	5.8	2.6		0	0			0	0	clear	The Staff.
Wakayama	30.09	764.4	30.15	765.8	44.8	7.1	71	n.	1.7	0.8		0	0			0	0	clear	K. akai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.81	757.2	29.99	761.7	82.0	27.8	67	ene.	15.5	6.9		1 cs	4 k		ene.	0.02	0.5	fair	The Staff.
MEXICAN.																			
Leon	24.37	619.0	30.18	766.6	48.9	9.4	76	n.	0.9	0.4			10ck;s		sw.	0	0	overcast	M. Leal & M. Pina.
Mazatlan	29.84	758.0	30.11	764.7	69.5	20.8	82	nnw.	1.6	0.8			10 n		s.	2.678	68.0	covered	F. Quijano, O. E.
NETHERLANDS.																			
Flushing	30.42	772.7	30.42	772.7	43.0	6.1		wsw.			3					0	0		
Groningen	30.31	769.8	30.36	771.2	38.3	3.5		wsw.			1					0.012	c.3		
Helder	30.32	770.2	30.32	770.2	42.4	5.8		wsw.			1					0.051	1.3		
Hellevoetsluis	30.41	772.3	30.41	772.3	49.1	9.5	91	wsw.			3					0	0		
Utrecht	30.33	770.3	30.38	771.7	43.0	6.1	95	nw.			1		10			0.126	3.2	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.8			79.3	26.3	88	nnw.	0	0			5			0.756	19.2		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.84	757.8	29.90	759.4	35.6	2.0	93	se.	13	6			10			0.945	24.0	raining	
Brono	29.60	751.8	29.64	752.8	33.6	0.9	84	s.			4		9			0	0		
Christiania	29.74	755.3	29.89	759.2	25.0	— 3.9	96	calm	0	0			10					snowing	
Gjæsvær	29.63	752.5	29.65	753.1	24.8	— 4.0		ne.			2		10			0	0		
Lodingen	29.58	751.4	29.63	752.6	30.7	— 0.7	92	calm			0		10			0.457	11.6	snowing	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira																0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.25	768.4	30.34	770.6	66.2	19.0	72	e.	6.3	2.8			7			0	0		The Staff.
Ponta Delgada, Azores	30.08	764.0	30.43	772.9	50.0	10.0	56	ne.	13.0	5.8			5		ssw.	0	0		
Saint Paul de Loanda	30.13	765.4	30.21	767.2	63.0	17.2	78	e.	23.7	10.6			3			0	0		
St. Vincent, Cape Verd Ids.																			
San Salvador, Congo	28.08	713.1	29.89	759.2	82.2	27.9	67	nw.			1		4			0.315	8.0		
Serra da Estrella	25.59	649.9	30.42	772.6	44.2	6.8	38	se.	5.6	2.5			1			0	0		
RUSSIAN.																			
Akmolinski	28.73	729.8	29.88	758.9	19.6	— 6.9	97	s.	7	3			10 n			0.008	0.2		Major K. Lasarew.
Archangel	29.77	756.2	29.79	756.7	— 6.2	—21.2	81	ese.	2	1		0	0			0	0		Capt. Sselliwerstow
Astrakhan	30.24	768.1	30.15	765.7	52.9	11.6	69	wnw.	2	1		0	0			0	0		
Baku	30.17	766.3	30.09	764.3	34.7	1.5	87	wsw.	11	5			10 n			0	0	h'vy clouds	Capt. Wisganow.
Barnaul	30.11	764.8	30.06	763.6	45.3	7.4	57	ssw.	13	6			7 ks			0	0		
Bielosersk	29.69	754.1	30.23	767.9	12.2	—11.0	99	ne.	4	2			3			0	0		Meteorological Office.
Dorpat	29.05	737.8	29.56	750.7	5.0	—15.0	80	ese.	13	6			10 s			0.020	0.5	snow-drift	
Ekaterinburg	29.30	744.1	29.55	750.6	22.1	— 5.5	85	nw.	4	2			10 n			0.039	1.0	light snow	Observatory.
Elissawetgrad	29.10	739.2	30.17	766.4	— 0.2	—17.9	97	calm	0	0			10 n					snowing	Meteorological Obs'y.
Kasan	29.45	747.9	29.92	759.9	31.1	— 0.5	83	wnw.	9	4			10 s;n			0	0		
Kem	29.61	752.0	29.91	759.6	0.1	—17.7	100	se.	11	5			10			0.020	0.5	light snow	Observatory.
Kertch	29.63	752.5	29.68	753.8	6.1	—14.4	87	se.	4	2			10			0	0	h'vy clouds	
Kieff	29.72	754.9	29.74	755.5	44.2	6.8	85	calm	0	0			10 n			0	0		Lagorio & Sastyres.
Koslov	29.10	739.0	29.75	755.7	34.5	1.5	69	w.	16	7			10ks;n			0	0		Observatory.
Lgov	29.06	738.2	29.59	751.6	22.3	— 5.4	88	ssw.	9	4		0	7 s			0	0		
Libau	29.06	738.2	29.67	753.5	30.6	— 0.8	88	sw.	20	9		0	8			inap.	inap.	light snow	R. I. Ssaweljew, Engin'r.
Lugan	29.74	755.4	29.76	757.0	35.1	1.7	75	n.	16	7			10			0.071	1.8		
Moscow	29.70	754.3	29.91	759.6	37.2	2.9	69	sw.	9	4			9			0	0	light clouds	Meteorological Obs'y.
Nertschinsk	28.84	732.5	29.34	745.1	26.2	— 3.2	81	s.	4.5	2.0			10 s			0.075	1.9	snowing	Meteorological Obs'y.
	27.69	703.4	30.29	769.4	—10.3	—23.5	77	nw.	4	2			7			0	0	light clouds	

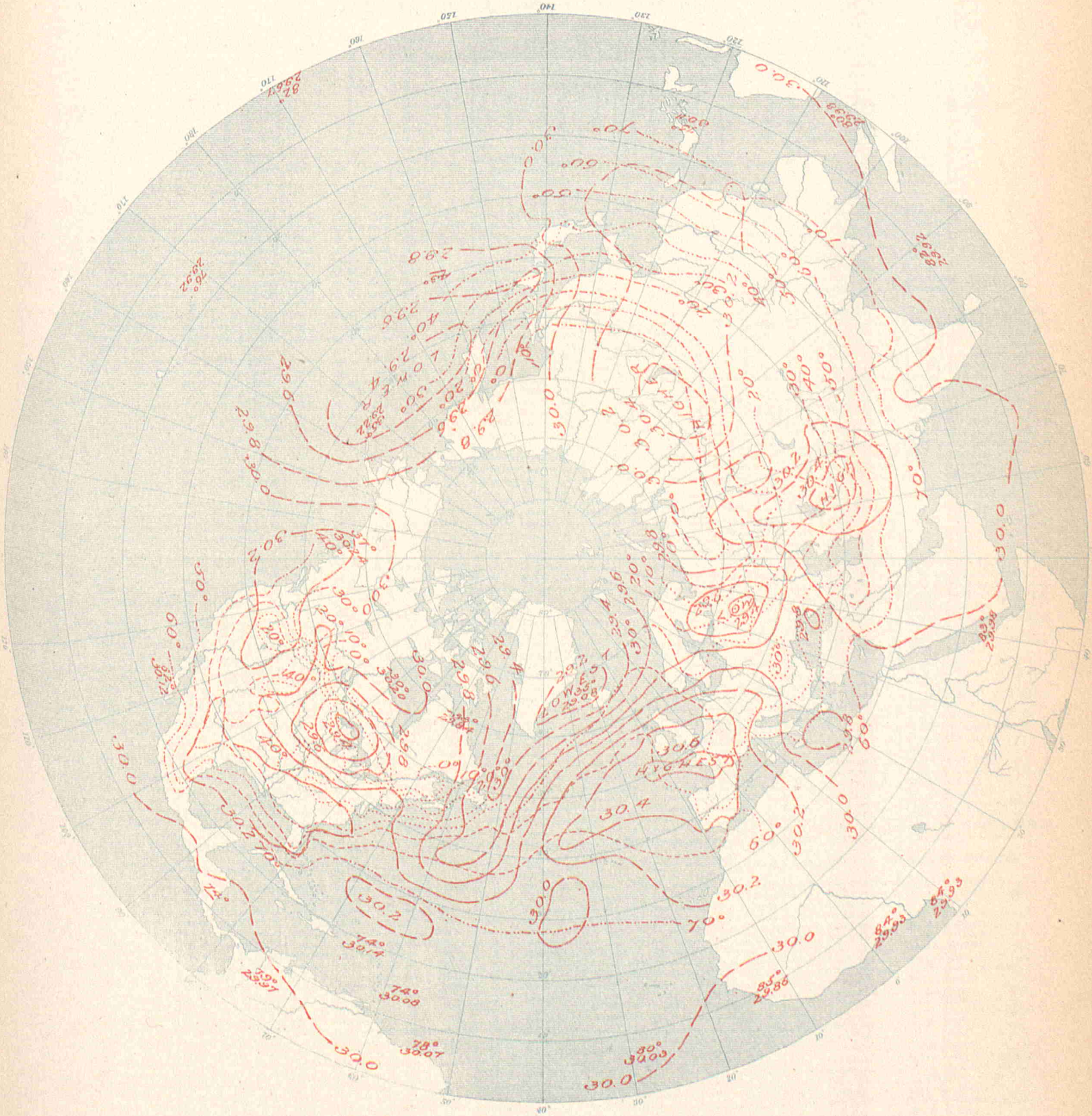
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	29.87	758.7	29.94	760.5	36.5	2.5	70	calm	0	0			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolniewsk-on-the-Amoor	29.84	757.9	29.93	760.1	—14.1	—25.6	80	calm	0	0		0	0						Iwanow.
Pekin, China	30.20	767.0	30.34	770.6	29.5	— 1.4	34	nw.	2.2	1.0		0	0			0	0		Physical Observatory
Petro-Alexandrovsk	30.11	764.8	30.50	774.6	17.2	— 8.2	65	calm	0	0		0	0						
Petrozavodsk	29.32	744.7	29.53	750.1	8.2	—13.2	84	ese.	22	10			10			0.051	1.3		Dr. Bergmann.
Pinsk	29.27	743.4	29.78	756.5	32.0	0.0	92	wsw.	13	6			10			0.020	0.5		
Poti	30.08	764.1	30.11	764.9	50.5	10.3	64	e	9	4		0	5 ks			0	0		
St. Petersburg	29.44	747.7	29.46	748.3	12.0	—11.1	86	nne.	2	1			10 n			0.236	6.0		Central Physical Obs'y.
Samarkand	27.93	709.4	30.50	774.8	40.1	4.5	49	w.	7.8	3.5		9 ck	0						
Semipalatinsk	29.43	747.6	30.14	765.6	18.9	— 7.3	81	e.	4	2			9			0.028	0.7		Major Lasarew
Sevastopol	29.67	753.5	29.88	759.0	46.6	8.1	72	sw.	7	3			10 n			0.189	4.8		
Starol Bykhov	29.01	736.8	29.58	751.3	32.0	0.0	72	w.	16	7			9			0.031	0.8		
Tashkend, Laboratory	28.49	723.6	30.27	768.9	27.1	— 2.7	96	n.	13	6			10 n						Terch, A. M
Tiflis	28.78	730.9	30.26	768.5	37.6	3.1	52	n.	2	1		0	2 ks			0	0		Physical Observatory.
Vernoe	27.54	699.5	30.19	766.9	24.3	— 4.3	63	calm	0	0			10 n						
Viatka	29.24	742.7	29.95	760.7	— 6.0	—21.1	91	calm	0	0			10			0	0		
Vladivostock	29.97	761.1	30.03	762.8	20.7	— 6.3	57	nnw.	13	6		0	4 k			0	0		
Warsaw	29.52	749.7	29.96	760.9	32.7	0.4	82	nw.	18	8			10			0	0	heavy clouds	Astronomical Obs'y.
Yeniseisk	30.25	768.3	30.59	776.9	—19.5	—28.6	80	calm	0	0			10			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.73	729.7	29.30	744.2	30.3	— 0.9	94	ssw.	11	4.9			10 n		s.	0.06	1.5	snowing	Prof. S. Fadeieff.
Spanish.																			
Barcelona, Met. Obs'y	30.19	766.8	30.30	769.6	56.3	13.5	52	e.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.54	775.8	30.60	777.3	50.0	10.0	66	se.	0.9	0.4		2	0	ne.		0.122	3.1	almost clear.	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.46	697.4	30.57	776.4	39.9	4.4	69	ne.	6.3	2.8		0	3			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.12	714.3	30.43	773.0	45.9	7.7	58	n.	5.4	2.5		2 c	0			0	0		The Staff.
Murcia, Met. Obs'y	30.23	767.9	30.35	771.0	56.8	13.8	64	w.	1.1	0.5		0	1			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.50	749.2	30.42	772.6	50.5	10.3	65	ne.	15.4	6.9			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.09	764.2	30.15	765.8	73.3	22.9	78	nne.	7.6	3.4		0	8 kjks		nne.	0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	30.06	763.4	30.11	764.8	75.0	23.9	76	ne.	0	0		1 ck	1 ks		ene.	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.27	768.8	30.37	771.4	52.5	11.4	69	nne.	3.1	1.4		2	5	w.	w.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.05	763.2	30.14	765.5	73.8	23.2	77	s.	2.2	1.0		3 s	2 k	s.	s.	0.260	6.6		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.67	753.5	29.71	754.5	15.1	— 9.4	94	calm			0		10			0	0		
Umea	29.67	753.7	29.72	755.0	20.5	— 6.4	84	nw.			2		3			0	0		
Hernosand	29.65	753.1	29.70	754.4	23.7	— 4.6	81	calm			0		5			0	0		
Stockholm	29.65	753.2	29.83	757.7	28.0	— 2.2	75	wnw.			2		0			0	0		
Wisby	29.70	755.9	29.82	757.4	33.1	0.6	89	nw.			7		3			0	0		
Sub-series.																			
Upsala	29.70	754.4	29.79	756.6	27.7	— 2.4	75	wnw.	7.6	3.4			1	nnw.		0	0		H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			29.87	758.7	52.5	11.4	77	sw.	2	1.0			10		sw.	0.535	13.6		The Observatory.
Valona			29.87	758.7	43.5	6.4		ne.			1		10					raining	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.6	63.1	17.3	56	ne.			1	1 c	0	sw.					F. Nimr, B. A., Dir.
United States.																			
Albany, New York	29.99	761.7	30.08	764.0	16.7	— 8.5	72	s.	3	1.3			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	28.78	731.0	29.48	748.8	18	— 7.8	84	s.	20	8.9			10 n			0.23	5.8	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.03	635.8	30.15	765.8	21.0	— 6.1	76	ne.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	30.18	766.6	31.0	— 0.6	81	nw.	16	7.2			10 s		nw.	0	0	cloudy	F. Newman.
Atlanta, Georgia	29.06	738.1	30.29	769.4	34.4	1.3	67	nw.	8	3.6		0	0			0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.10	764.5	30.11	764.8	23.0	— 5.0	73	sw.	2	0.9		0	0			0	0	clear	B. A. Blundon.
Augusta, Georgia	30.12	765.0	30.32	770.1	34	1.1	78	calm	0	0		2 c	0			0	0	clear	W. J. Evans.
Baltimore, Maryland	30.13	765.3	30.18	766.6	29	— 1.7	67	w.	4	1.8		0	0			inap.	inap.	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.12	765.0	30.14	765.5	23.0	— 5.0	73	n.	11	4.9		0	0			0	0	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.14	714.7	29.88	758.9	38.5	3.6	65	n.	18	8.0		3 c	2 s	nw.	nw.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.28	692.9	30.26	768.6	29.0	— 1.7	59	sw.	4	1.8			10 s			0.02	0.5	cloudy	Thomas Morgan.
Bismarck, Dakota	27.82	706.6	29.82	757.4	35	1.7	89	nw.	26	11.6			10 s		nw.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.03	762.7	30.06	763.5	23.5	— 4.7	67	n.	8	3.6		hz.	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.41	696.2	30.34	770.6	12	—11.1	91	n.	2	0.9		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.86	758.4	30.03	762.7	12.0	—11.1	61	nw.	6	2.7		0	0			0.09	2.3	clear	O. B. Cole.
Brownsville, Texas	30.16	766.1	30.22	767.6	47.2	8.4	77	n.	4	1.8		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.10	739.1	29.89	759.2	17.8	— 7.9	91	s.	8	3.6			10 s			0.06	1.5	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.73	704.3	29.96	761.0	30.5	— 0.8	88	nw.	35	15.6			10 s		nw.	0	0	cloudy	A. Schneider.
Cairo, Illinois	29.03	752.6	30.05	763.3	37.8	3.2	53	sw.	8	3.6		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	30.15	765.8	30.35	770.9	39.0	3.9	84	e.	3	1.3		0	0			0.26	6.6	clear	J. H. Young.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	28.0	— 2.2	64	s.	6	2.7		0	0			0.04	1.0	clear	A. K. Alderson.
Cape May, New Jersey	30.14	765.5	30.16	766.1	33.0	0.6	78	sw.	6	2.7		3 cs	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.43	747.5	30.13	765.3	46	7.8	100	n.	26	11.6			fg.			0	0	dense fog	A. P. Leavitt.
Cedar Keys, Florida	30.29	769.4	30.31	769.9	43.0	6.1	68	n.	12	5.4		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	40.0	4.4	73	nw.	4	1.8		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.30	745.7	30.25	768.3	32.2	0.1	74	s	1	0.4		5 c	fg	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.42	747.3	30.28	769.1	29.5	— 1.4	73	w.	2	0.9		7 cs	1 s;sk	nw.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.85	605.8	30.12	765.0	40.8	4.9	33	w.	14	6.3		6 c	0	nw.		0	0	fair	E. McGovern.
Chicago, Illinois	28.76	730.5	29.51	749.5	37.5	3.1	61	sw.	18	8.0			10 s			inap.	inap.	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.15	765.8	30.17	766.3	26	— 3.3	88	n.	2	0.9		hz.	0			inap.	inap.	clear	C. F. Dickens.
Cincinnati, Ohio	29.31	744.5	30.00	762.0	35.1	1.7	80	sw.	6	2.7		2 c	0			inap.	inap.	clear	L. Dunne.
Cleveland, Ohio	29.00	736.0	29.78	756.4	29.0	— 1.7	77	s.	22	9.8			10 s		s.	0.04	1.0	cloudy	W. Line.
Columbus, Ohio	29.06	738.1	29.96	761.0	27.6	— 2.4	84	s.	8	3.6			10 ks		s.	0.03	0.8	cloudy	F. T. Williams.
Concho, Fort, Texas	28.16	715.3	30.18	766.6	34.5	1.4	66	sw.	3	1.3			10 s			0	0	cloudy	C. E. King.
Custer, Fort, Montana	26.76	679.7	30.14	765.0	33	0.6	88	w.	16	7.2		3 cs	2 ks			0	0	fair	W. J. Daily.
Davenport, Iowa	28.93	734.8	29.64	752.8	37.5	3.1	77	sw.	11	4.9		6 ck	0	w.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	30.23	767.8	33.1	0.6	71	s.	3	1.3		6 k	0	s.		0	0	fair	J. Williams.
Dayton, Washington Ty	28.59	726.2	30.40	772.1	29.5	— 1.4	88	s.	4	1.8		0	0			0.03	0.8	clear	H. S. Blandford.
Deadwood, Dakota	25.20	640.1	30.15	765.8	35.4	1.9	69	sw.	8	3.6		3 k	7 s	w.		0.03	0.8	cloudy	G. Kingsbury.
Delaware Breakwater, Del.	30.14	765.5	30.16	766.1	25.2	— 3.8	73	sw.	10	4.5		0	0			0	0	clear	G. A. Martin.
Denver, Colorado	24.56	623.8	30.08	764.0	50.0	10.0	27	sw.	6	2.7		2 c	0	nw.		0	0	clear	F. M. Neal.
Des Moines, Iowa	28.68	728.5	29.65	753.1	36.2	2.3	68	nw.	4	1.8		5 cs	0			0	0	fair	F. W. Conrad.
Detroit, Michigan	28.95	735.3	29.71	754.6	32.0	0.0	78	sw.	16	7.2			10 s			0.14	3.6	cloudy	N. B. Conger.
Dodge City, Kansas	27.16	689.9	29.92	760.0	29.9	— 1.2	61	sw.	4	1.8		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	28.83	732.3	29.60	751.8	38.2	3.4	70	sw.	8	3.6			10 s			0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	28.58	725.9	30.39	771.9	16	— 8.9	83	s.	5	2.2		0	6 s		s.	0.15	3.8	fair	E. R. Brace.
Eastport, Maine	29.87	758.7	29.94	760.5	9.0	—12.8	76	n.	8	3.6		0	1 s		n.	0.04	1.0	clear	D. C. Murphy
Elliott, Fort, Texas	27.11	688.6	30.04	763.0	41.6	5.3	37	sw.	18	8.0		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.33	668.8	30.21	767.3	31.2	—0.4	71	calm	0	0			10 s		sw.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.08	738.6	29.84	757.9	23.5	— 4.7	88	s.	18	8.0			10 n			0.03	0.8	light snow	C. A. Shaw.
Escanaba, Michigan	28.67	728.2	29.39	746.5	13.0	—10.6	80	s.	4	1.8		10 cs	0			0.01	0.3	cloudy	L. M. Pindell.
Fort Smith, Arkansas	29.60	751.8	30.10	764.0	28.5	— 1.9	77	e.	4	1.8		3 cs	0			0	0	clear	J. B. Campbell.
Galveston, Texas	30.22	767.6	30.26	768.0	44	6.7	68	w.	4	1.8		2 cs	hz.			0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	28.85	732.8	29.56	750.8	37.5	3.1	77	s.	23	10.3			10 s		sw.	0.09	2.3	threatening	Joseph E. Muelle
Grant, Fort, Arizona	25.20	640.1	30.10	764.5	33.0	0.9	56	nw.	2	0.9		3 ck	0	s.		0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.20	767.1	30.21	767.3	35.8	2.1	69	ne.	8	3.6	.....	3 c	0	nw.	.....	0	0	clear	R. M. Crawford
Helena, Montana	25.86	656.8	30.24	768.1	.....	.....	.....	nw.	4	1.8	.....	0	0	.....	.....	0.21	5.3	clear	S. W. Morrison.
Huron, Dakota	28.23	717.0	29.77	756.1	39.0	3.9	80	nw.	24	10.7	.....	4 k	0	w.	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.02	737.1	29.86	758.4	35.2	1.8	58	sw.	7	3.1	.....	1 c	0	w.	.....	inap.	inap.	clear	C. F. R. Wappenhans.
Indianola, Texas	30.19	766.8	30.22	767.6	43.2	6.2	88	s.	5	2.2	.....	0	1 s	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.25	768.3	30.30	769.6	39.3	4.1	72	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	28.98	736.1	29.68	753.9	38.0	3.3	50	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.14	765.5	30.16	765.1	68	20.0	92	ne.	12	5.4	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	A. W. Browne.
Kittyhawk, North Carolina	30.13	765.3	30.15	765.8	32.0	0.0	78	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	Wesley Blake.
Knoxville, Tennessee	29.19	741.4	30.27	768.8	20.2	— 6.6	97	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	28.61	726.7	29.45	748.0	38	3.3	82	s.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.82	732.0	29.78	756.4	37	2.8	44	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	29.45	748.0	30.32	770.1	34.0	1.1	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	O. E. Butler.
Little Rock, Arkansas	29.80	756.9	30.13	765.3	40.0	4.4	48	sw.	5	2.2	.....	3 cs	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.71	754.6	30.11	764.8	42.7	5.9	71	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.42	747.3	30.01	762.2	36.0	2.2	63	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.46	748.3	30.18	766.6	31.0	— 0.6	72	sw.	2	0.9	.....	0	5 s	.....	.....	0	0	fair	Jno. Healy.
Mackinaw City, Michigan	28.74	730.0	29.44	747.8	20.0	— 6.7	84	se.	10	4.5	.....	.....	10 n	.....	.....	0.55	14.0	light snow	D. B. Notson.
Macon, Fort, North Carolina	30.23	767.8	30.24	768.1	36.0	2.2	79	n.	13	5.8	.....	9 cs	0	w.	.....	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.37	644.4	30.14	765.5	20.3	— 6.5	58	ne.	20	8.9	.....	10 c	0	ne.	.....	0.10	2.5	cloudy	F. Burke.
Marquette, Michigan	28.58	725.9	29.36	745.7	16.7	— 8.5	71	s	3	1.3	.....	.....	10 n	.....	.....	0.27	6.9	light snow	J. Gilligan.
Memphis, Tennessee	29.77	756.1	30.13	765.3	40	4.4	48	s.	12	5.4	.....	4 cs	0	.....	.....	0	0	fair	D. T. Flannery
Milwaukee, Wisconsin	28.70	729.0	29.50	749.3	38.1	3.4	74	sw.	24	10.7	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy	S. W. Rhode.
Mobile, Alabama	30.27	768.8	30.31	769.9	33.2	0.7	78	calm	0	0	.....	1 c	0	.....	.....	0	0	clear	H. U. Jones.
Montgomery, Alabama	30.07	763.8	30.31	769.9	31	— 0.6	84	calm	0	0	.....	4 cs	fg.	.....	.....	0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	28.40	721.3	29.51	749.5	37	2.8	100	n.	18	8.0	.....	.....	10 s	.....	n.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.32	592.3	29.95	760.7	1.0	—17.2	54	nw.	17	7.6	.....	0	fg.	.....	nw.	0	0	clear	Edwd. A. Beals.
Nashville, Tennessee	29.53	750.0	30.14	765.5	29.0	— 1.7	84	se.	4	1.8	.....	7 c	0	w.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.92	760.0	30.04	763.0	11.3	—11.5	94	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.01	762.2	30.06	763.5	15.5	— 9.2	75	w.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.22	767.6	30.28	769.1	44.0	6.7	72	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	M. Herman.
New York, New York	29.91	759.7	30.10	764.5	23.0	— 5.0	75	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	H. J. Penrod.
Norfolk, Virginia	30.15	765.8	30.18	766.6	31.8	— 0.1	84	sw.	3	1.3	.....	hz.	0	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	26.86	682.2	29.98	761.5	35.6	2.0	65	nw.	.....	.....	2	3 cs	0	nw.	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	30.34	770.6	30.38	771.6	37.0	2.8	82	calm	0	0	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.47	723.1	29.74	755.4	36.8	2.7	73	nw	6	2.7	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	29.60	751.8	29.95	760.7	23.0	— 5.0	61	s.	9	4.0	.....	8 cs	0	nw.	.....	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.64	752.8	30.22	767.6	39.0	3.9	54	s.	3	1.3	.....	2 cs	2 s	sw.	.....	0	0	fair	P. T. Jenkins.
Pensacola, Florida	30.29	769.4	30.32	770.1	33.8	1.0	67	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	30.02	762.5	30.13	765.3	27	— 2.8	64	sw.	5	2.2	.....	1 c	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.66	448.6	30.36	771.1	16.0	— 8.9	67	nw.	42	18.8	.....	8 k	0	w.	.....	0	0	cloudy	H. Hall.
Pittsburg, Pennsylvania	29.13	739.9	29.98	761.5	28.0	— 2.2	88	s.	9	4.0	.....	0	7 s	.....	sw.	0.05	1.3	fair	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	23.2	— 4.9	94	w.	.....	.....	1	9 cs	0	.....	.....	0	0	cloudy	G. A. Carden.
Port Huron, Michigan	28.88	733.5	29.62	752.3	24.8	— 4.0	92	s.	20	8.9	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	M. H. Perry
Portland, Maine	29.96	761.0	30.00	762.0	12.0	—11.1	80	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.27	768.8	30.34	770.6	35.0	1.7	100	sw.	3	1.3	.....	.....	fg.	.....	.....	0.15	3.8	dense fog	M. L. Hearne.
Prescott, Arizona	24.79	629.7	30.17	766.3	27.5	— 2.5	70	w.	2	0.9	.....	1 c	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass	30.01	762.2	30.04	763.0	19.7	— 6.8	76	w.	7	3.1	.....	0	4 s	.....	n.	0.06	1.5	fair	C. N. Kitchel.
Red Bluff, California	29.70	754.4	30.07	763.8	36	2.2	89	n.	5	2.2	.....	5 c	0	nw.	.....	0	0	fair	J. R. Williams.
Rio Grande City, Texas	30.06	763.5	30.31	769.9	49.0	9.4	94	e.	4	1.8	.....	.....	fg.	.....	se.	0	0	dense fog	L. G. Schultz.
Rochester, N. Y	29.24	742.7	29.94	760.5	17	— 8.3	74	s.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.71	754.6	30.28	769.1	42.3	5.7	79	n.	10	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	30.00	762.0	30.08	764.0	37.5	3.1	74	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.20	741.7	29.86	758.4	42.0	5.6	50	s.	28	12.5	.....	0	0	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.77	756.1	29.81	757.2	—16	—26.7	100	ne.	.....	.....	2	2 cs	0	ne.	.....	0	0	clear	Fred. H. Clarke
St. Paul, Minnesota	28.50	723.9	29.44	747.8	41.0	5.0	65	w	6	2.7	.....	.....	10 n	.....	w.	inap.	inap.	light rain	P. F. Lyons.
St. Vincent, Minnesota	28.75	730.2	29.73	755.1	7.3	—13.7	91	n.	21	9.4	.....	.....	10 n	.....	.....	0.04	1.0	light snow	C. B. Dilley
Salt Lake City, Utah	25.67	652.0	30.24	768.1	22	— 5.6	48	nw.	2	0.9	.....	2 c	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.01	762.2	30.08	764.0	47.8	8.8	42	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.04	737.6	29.76	755.9	33.5	0.8	74	sw.	21	9.4	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.09	764.3	30.12	765.0	25.8	— 3.4	64	w.	17	7.6	.....	0	0	.....	.....	0	0	clear	V. P. Chappel.
Sanford, Florida	30.21	767.3	30.26	768.6	45.0	7.2	76	n.	11	4.9	.....	0	0	.....	.....	0.01	0.3	clear	J. B. Marbury
San Francisco, California	29.98	761.5	30.05	763.3	45.0	7.2	85	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.20	767.1	30.30	769.0	38.5	3.6	63	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.37	669.8	30.23	767.8	29	— 1.7	74	sw.	17	7.6	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.95	760.7	30.20	767.1	33.0	0.6	74	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sitka, Alaska	30.17	766.3	30.24	768.1	37.1	2.8	76	e.	6	2.7	.....	.....	10 ks	.....	e.	0.55	14.0	cloudy	F. W. Pickett.
Smithville North Carolina	30.24	768.1	30.28	769.1	34.8	1.6	83	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.08	713.2	30.22	767.6	18	— 7.8	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.04	737.6	29.77	756.1	38.8	3.8	75	sw.	19	8.5	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.04	686.8	30.18	766.6	30.0	— 1.1	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.28	769.1	.....	.....	39.4	4.1	82	ne	8	3.6	.....	0	0	.....	.....	0.08	2.0	clear	R. Connor.
Thomas, Camp, Arizona	27.32	693.9	30.15	765.8	30	— 1.1	80	calm	.....	.....	0	0	3 k	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	28.97	735.8	29.71	754.6	33	0.6	68	sw.	21	9.4	.....	6 cs	4 s	w.	.....	0.20	5.1	cloudy	A. Buell.
Unalashka, Alaska	29.20	741.7	29.22	742.2	35	1.7	89	nw.	14	6.3	.....	.....	10 s	.....	nw.	0.40	10.2	threatening	Samuel Applegate.
Vicksburg, Mississippi	30.02	762.5	30.28	769.1	38.0	3.3	72	s.	4	1.8	.....	2 c	0	w.	.....	0	0	clear	C. Dill.
Washington, D. C.	30.06	763.5	30.18	766.6	27.0	— 2.8	83	sw.	4	1.8	.....	4 c	0	sw.	.....	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	25.83	656.1	29.96	761.0	22	— 5.6	80	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.22	767.6	30.28	769.1	36.6	2.6	77	n.	1	0.4	.....	1 ck	0	n.	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	28.32	719.3	29.74	755.4	30.6	2.6	73	w.	7	3.1	.....	10 k	0	w	.....	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.84	757.9	29.99	761.7	42.9	6.1	52	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.21	741.9	29.23	742.4	32.0	0.0	88	ne.	38	17.0	.....	.....	10 n	.....	.....	0	0	cloudy	George Cherunick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	78	25.6	.....	ne.	.....	.....	4	3 ck	4 ks	.....	ne.	0.65	16.5	fair	W. H. Jackson.
Bogota, U. S. C.	21.99	558.6	.....	.....	49.1	9.5	68	calm	0	0	.....	0	0	.....	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	29.68	753.9	29.84	757.9	—33	—36.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.11	764.8	66.9	19.4	94	calm	0	0	.....	0	0	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	e.	.....	.....	3	.....	8 ps	e.	.....	0.200	5.1	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.41	747.0	29.97	761.2	79	26.1	89	n.	.....	.....	1	6 ck	1 k	calm	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	91	ne.	.....	.....	1	.....	2 ks	.....	ne.	0.10	2.5	fair	Earl Flint.
York Factory, B. A.	30.12	765.0	30.20	767.1	—30.0	—34.4	.....	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA.																			
(Sub series).																			
Colon	29.98	761.6	29.99	761.8	79.5	26.4	86	n.	12.1	5.4	.....	0	8 k	.....	n.	.....	.....	hazy	P. Faslani.
Naós, Bay of Panama	29.89	759.1	29.95	760.8	74.8	23.8	90	n.	.....	.....	4	0	1 k	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.																		
S. S. Alvo, N. 37° 20′, W. 74° 19′ *	30.23	767.8	33	0.6		n.			4		4		nnw.	0	0	long	n.	fine
S. S. Alleghany, Vineyard sound, Mass †	30.07	763.8	22	— 5.6		wnw.			2		3		sw.	0	0			fair.
Schr. Anna A. Holton, N. 37° 05′, W. 70° 40′*†	30.06	763.5	52	11.1		n.			7		10		n.	8 h'r	8 h'r	r'gh	n.	drizzling.
S. S. Alps, N. 28° 46′, W. 74° 07′			75	23.9		n.			3		0			rain	rain	chop	n.	
S. S. Belgenland, Fastnet, Ireland *†	30.55	776.0				nnw.			2				n.	0	0	sm'h		clear.
S. S. Circassian, N. 46° 09′ W. 53° 26′	29.42	747.3	42	5.6	100	sw			4–5		10		sw.			4	sw.	raining.
S. S. Caracas, N. 33° 28′, W. 71° 56′* †	30.11	764.8	61	16.1	60	nw.			6		7		nnw.	0	0	r'gh	nnw	fair.
S. S. City of Augusta, N. 33° 19′, W. 78° 20′ †	30.32	770.1				nne.			2		3		ne.	0	0			clear.
S. S. Canada, (Br) N 41° 05′ W. 60° 01′ †	29.70	754.4	50	10.0		nnw.			6		8		nnw.	10 h'r	10 h'r	h'vy	sw.	cloudy.
Bk. Diamant, N. 42° 05′, W. 58° 28′	29.70	754 4	43.3	6.3	86	nw.			8		10		wsw.			5	sw.	overcast.
S. S. Dorian, N. 32° 43′, W. 42° 37′	30.15	765.8	64	17.8		n.			6		6		n.	h'vy	hv'y	mod	nnw.	fair.
S. S. Denmark, N. 49° 46′, W. 14° 45′†	30.67	779.0	52	11.1	93	sw.			5		6		sw.	0	0	sli't	w.	fair.
S. S. Daniel Steinmann, N. 50° 19′, W. 15° 28′ *	30.55	776.0	55	12.8		ssw.			4		9		wsw.	0	0	sm'h		cloudy.
S. S. France, N. 45° 08′, W. 50° 46′ *†	29.53	750.0				sw.			7		5		w.	0	0	h'vy	sw.	fair
Bg. Gipsey Queen, N. 27° 00′, W. 79° 40′						nne.			6					0	0	short		fair.
Schr. Jas Slater, N. 38° 30′. W. 74° 58′*†	30.18	766.6	34	1.1		calm			0		0		nne.	½ h'r	½ h'r	sm'h		fine.
S. S. Lord Gough, N. 47° 32′, W. 45° 24′ *	29.80	756.9	40	4.4		s.			5		10		s.	0	0	cross		cloudy.
S. S. Llandaff City, N. 51° 10′, W. 7° 02′*†	30.50	774.7	48	8.9		w.			5		8		wnw.	0	0	sm'h		cloudy.
S. S. Lessing, N. 49° 37′, W. 25° 12′	30.35	770.9	57	13.9		ssw.			4		10		ssw.	0	0	mod.	sw.	hazy.
S. S. Labrador, N. 49° 43′, W. 10° 39′ *†	30.61	777.5	47.3	8.5		w.			3		5		nw.			sm'h	w.	fair.
Bg. L. F. Munson, Shelburne, N. S			22	— 5.6		nne.			4		3		ne.	0	0			fair.
S. S. Main, N. 49° 47′ W. 18° 41′	30.52	775.2	53.6	12.0		wsw.			2–3		6		w.	2 h'r	2 h'r	sm'h	wsw.	cloudy
S. S. Mentmore, N. 39° 28′, W. 70° 50′						wnw.			5		10			0	0	mod.	w.	cloudy.
S. S. Neckar, N. 40° 21′, W. 70° 14′	30.08	764.0	32.0	0.0	69	nw.			3		1		nnw.	0	0	sm'h	nnw.	clear.
Schr. Maggie Abbott, N. 27° 24′, W. 74° 20′ *†	30.16	766.1				nne.			4		6		nw.	h'vy	h'vy	long	se.	cloudy.
Bk. Matthias, N. 34° 50′, W. 61° 09′*†	29.80	756.9	64	17.8		wsw.			6		10		sw.	4 h'r	4 h'r	3		
S. S. New York, N. 29° 33′ W. 80° 30′*†	30.20	767.1	59	15.0		se.			4		2		se.			sm'h	se.	clear.
S. S. Nova Scotian, off Liscomb, N. S	29.88	758.9	18	— 7.8		n.			3		0					sm'h		clear.
S. S. Nederland, N. 45° 42′, W. 48° 24′			40	4.4	83	s.			5		10		wsw.	0	0	mod	wsw.	overcast.
S. S. Nurnberg, N. 49° 45′ W. 10° 38′	30.59	777.0	50.0	10.0		wnw.			3		8		nw.	½ h'r	½ h'r	sm'h	nw.	cloudy
S. S. Oregon, (Br) N. 51° 24′, W. 21° 10′			54	12.2		ssw.			3		10		sw.			sm'h	nw.	overcast.
S. S. Pavonia, off Skerries Id, Ireland	30.51	774.9	55	12.8	80	wnw.			4		8		nw.	0	0	sm'h		cloudy.
S. S. Picqua, N. 34° 59′, W. 34° 44′*†	29.95	760.7	65	18.3	89	var.			4		10						e.	heavy rain.
S. S. Republic, N. 42° 06′, W. 54° 57*†	29.58	751.3	50	10.0		sw.			7		10			24 h'r	24 h'r	h'vy	sw.	raining.
S. S. Romano, N. 42° 52′, W. 48° 25′			50	10.0		s.			4		7		s.	0	0	h'vy	w.	hazy.
Bk. Rosina, N. 29° 38′, W. 65° 09′	30.13	765.3	73	22.8		nnw.			6		9		n.	3 h'r	3 h'r	mod.	w.	stormy.
S. S. State of Georgia, N. 55° 20′, W. 9° 47′ †	30.47	773.9	50	10.0		w.			6		5		w.	shr's	shr's	mod.	wnw.	fair.
S. S. Salier, N. 50° 22′ W. 29° 12′*	30.34	770.6				sw.			5		9		sw.	½h'r	½hr	mod.	sw.	cloudy.
S. S. St. Albans, N. 24° 30′, W. 84° —′*	30.22	767.6	70	21.1		n.			3		10		ne	0	0	sm'h		hazy.
S. S. Thingvalla, N. 58° 43′, E. 0° 53′ †	30.00	762.0	45.5	7.5		wnw			3		5		wnw.	3 h'r	3 h'r	long	wnw.	fair.
Schr. Viola Reppard, Holme's Hole, Mass †	30.09	764.3	32	0.0		nnw.			2		2			0	0			clear.
S. S. Valencia, Curacao, W.I †	30.05	763.3	78	25.6	78	ne.			5		3		ene.	0	0			fair.
S. S. Westphalia, N. 49° 47′, W. 5° 28′	30.53	775.4	51	10.6	93	wnw.			4		10		nw.	0	0	sm'h	nw.	fair.
Bk. Ariadne, N. 33° 47′, W. 71° 39′	30.14	765.5	58	14.4		nw.			5		4		nw.	2 h'r	2 h'r	long		fair.
Schr. Annie R. Lewis, N. 21° 54′, W. 80° 31′.			76	24.4		n.			2		0			0	0	sm'h	ese.	clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.19	766.8				ne.			2		4		ne.	0	0	sm'h		fair.
U. S. S. Alliance, Port au Prince, Hayti, W. I	30.07	763.8	75	23.9	95	se.			1		2		calm	0	0	sm'h		clear.
S. S. Britannic, N. 51° 12′ W. 14° 50′*†	30.61	776.5	51	10.6		wsw.			2		6		wsw.					
S. S. British Princess, N. 49° 30′ W. 27° 50′†	30.43	772.9	54	12.2		s.			2		10			driz.	driz.	sm'h		foggy.
S. S. Chalmette, Algiers, La			37	2.8		n.			4		3		n.	0	0			clear.
Schr. Ellen Crusoe, Caicos, Bahamas, W. I						e.							ne.	0	0			clear.
S. S. Gallia, N. 44° 41′, W. 43° 26′	29.99	761.7	57	13.9		ssw.			6		5		sw.	0	0	sm'h		fair.
S. S. Germanic, N. 48° 37′, W. 33° 18′*†	30.30	769 6	55	12.8	100	s.			3		7		ssw.	1 h'r	1 h'r	light	ssw.	fair.
S. S. Grecian, Funchal, Madeira	30.26	768.6	67	19.4	74	se.			2		9		se.	0	0	high	s.	cloudy.
S. S. Muriel, off Sombrero Key, Fla			78	25.6		e.			3		0			0	0	long	e.	clear.
S. S. Orinoco, N. 33° 55′, W. 66° 32′†	30.02	762.5	62	16.7		wnw.			6		5		wnw.	6 h'r	6 h'r	h'vy	cross	squally.
Bk. Saga, N. 23° 59′, W. 55° 25′ *†	30.18	766.5	76	24.4		var.			2–6		5		nne.	2¼ hr	2¼ hr	h'vy		fair.
S. Storm King, N. 34° 10′, W. 37° 24′*†	29.92	760.0				ne.			6		5		ne.	4 h'r	4 h'r	high	n.ne	squally.
S. S. State of Nebraska, N. 54° 30′, W. 22° 24′ *†	30.35	770.9	50	10.0		sw.			4		10		sw.	6 h'r	6 h'r	sm'h		misty.
S. S. Samaria, N. 50° 04′, W. 23° 30′	30.51	774.9	54	12.2		s.			4		10		ssw.	0	0	sm'h	sse.	cloudy.
S. S. Salerno, Hull, England †	30.40	772.1	42	5.6		wnw.			1		5		wnw.	0	0			hazy.
S. S. St. Laurent, N. 49° 50′, W. 1° 30′			49.1	9.5		n.			1		8		n.	0	0	sm'h		cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W. I*	30.15	765.8	75	23.9	85	calm			0		2					sm'h		clear.
U. S. S. Tennessee, Port au Prince, Hayti, W. I	30.12	765.0	73	22.8	85	calm	0	0			5		se.	0	0			clear.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I	30.04	763.0	77	25.0	81	calm			0		5							fair.
S. S. Weser, N. 52° 18′ E. 3° 09′	30.44	773.2	44.6	7.0		w.			4		10		nw.	0	0	mod.	w.	hazy.
S. S. Wyoming, N. 46° 47′, W. 43° 53′			45	7.2		s.			4		6		s.	0	0	mod.	sw.	fair.
S. S. Westernland, N. 49° 18′, W. 16° 33′	30.59	777.0	56	13.3		sw.			4		2		sw.	2 h'r	2 h'r	light	sw.	clear.
U. S. Navy Yard, Portsmouth, N. H*	30.05	763.3	9	—12.8	78	nw.	4	1.8			0			0	0			clear.
U. S. S. Kearsarge, Genoa, Italy	30.12	765.0	53	11.7	36	n.			3		0							clear.
U. S. S. Lancaster, Villefranche, France	30.16	766.1	57	11.7	79	sw.			2–3		0			0	0	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	30.06	763.5	17	— 8.3	100	wnw.			2		0					sm'h		clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.07	763.8	51	10.6	52	ene.			1		0					sm'h		clear.
U. S. S. Shenandoah, N. 28° 29′, W. 30° 07′ *	30.07	763.8	70	21.1	85	sse.			3		5		ne.			sm'h		fair.
U. S. S. Trenton, Marseilles, France	30.25	768.3	45	7.2	61	nne.			1		0					sm'h		clear.
H. M. S. Alexandra, Malta, Mediterranean	29.71	754.6	58	14.4	76	nnw.			2		10	nnw.						overcast.
H. M. S. Alecto, N. 5° 50, E. 1° 32′	29.93	760.2	84	28.9		nw.			2							3	s.	misty.
H. M. S. Comus, N. 9° 20′, W. 21° 40′	29.99	761.7	78	25.6	78	ne.			3		2					1	nne.	misty.
H. M. Dockyard, Bermuda, Atlantic	29.97	761.2	64	17.8	62	w.			6		5	wnw.						squally.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.32	770.1	59	15.0	79	wnw.			1		7	ese.						d. clouds.
H. P. M. S. Douro, Fernando Po, W. Africa	29.93	760.2	83.8	28.8	83	nnw.			3		8			2 h'r	2 h'r	2	nw.	d. clouds.
S. S. Ohio, (Am) N. 50° 10′, W. 28° 42′*†	30.29	769 4	53	11.7	93	ssw.			3		9		w.	2 h'r	2 h'r	mod.	wsw.	cloudy.
S. S. Pennsylvania, N. 42° 01′, W. 60° 46′ †	29.77	756.1	37	2.8	100	nne.			5		0?			10 h'r	10 h'r	h'vy	sw.	overcast?
S. S Polynesian, N. 55° 14′, W. 18° 39′	30.26	768 6	50	10.0		sw.			4		10		wsw.	0	0	r'gh	wsw.	overcast.
S. S. Scandinavian, N. 53° 38′, W. 24° 50′	30.26	768.6	47	8.3		sw.			4		10		sw.	driz	driz.	mod.	var.	overcast
S. S. Carroll, N. 43° 13′, W. 67° 16′			22	— 5.6		nnw.			4		6		nnw.	snow	snow	short	var.	fair.
S. S. Wisconsin, N 46° 00′, W. 49° 49′	29.58	751.3	48	8.9		ssw.			6		8		w.	7 h'r	7 h'r	r'gh	wsw.	hazy.
S. S. Bohemia, Hamburg, Germany *†	30.30	769.6				wsw.			4–5		9			0	0			cloudy.
S. S. Archimedes, (Br) N. 37° 24′, W. 59° 58′	29 59	751.6				nw.			6–7		10		var.	3 h'r	3 h'r	high	var.	overcast.
S. S. Hevelius, N. 50° 20′, W. 2° 30′*†	30.47	773.9	40	4.4		wnw.			6		7		w.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Archimede, (It) Gibraltar, Mediterranean †	30.47	773 9	64	17.8		nw.			1		2		ne.	0	0			clear.
S. S. Texas, N. 35° 21′, W. 26° 05′			60	15.6		e.			5		10			0	0	high	e.	overcast.
S. S. Erin, London, Eng			48	8.9		wsw.			2		7		wsw.	0	0	sm'h		fine.
S. S. America, N. 40° —′, W. 60° —′*	29.74	755.4	45	7.2	76	s.			1		6		nw.	rain	rain	cross	nw.	covered?
S. S. Habsburg, N. 49° 39′, W. 23° 45′	30.54	775.7				s.			5		9		s.	4 h'r	4 h'r	mod.	s.	covered.
S. S. Rhynland, Jersey City, N. J	30.10	764.5	19	— 7.2	84	w.			2		0			0	0			clear.
S. S. Switzerland, N. 40° 20′, W. 67° 45′*†	29.93	760.2				nw.			3		5		w.	5 h'r	5 h'r	light	wsw.	threatening
S.S. Waesland, N. 47° 16′ W. 39° 24′	30.16	766.1	56	13.3		ssw.			6		5		ssw.	0	0	mod.	sw.	fair.
S. S. W. A. Scholten, N. 49° 19′, W. 37° 24′			49.3	9.6	90	s.			6		10		w;wsw	1½ hr	1½ hr	7	var.	cloudy.
S. S. State of Nevada, N. 43° 26′, W 58° 15′ *†	29.66	753.4	33	0.6		nnw.			5		10		nnw.	0	0	short	ne.	cloudy.
S. S. Saxon, N. 41° 00′ W. 71° 35′			25	— 3.9		nnw.			1		0					sm'h		fine.
S. S. Celtic, N. 51° 16′ W. 14° 29′ *†	30.65	778 5	59	13.3		sw.			4		10		sw.	0	0	sm'h		cloudy.
S. S. Marengo, N. 43° 40′, W. 42° 40′			59	15.0		sse.			6		2		sse.	0	0	mod	se.	clear.
Bg. Alcira, N. 30° 20′, W. 66° 14′	30.11	764.8	69	20.6		nnw.			5		10		nw.	0	0	cross	var.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Antonio Lopez, Cadiz, Spain	30.38	771.6	55	12.8	62	calm			0		8?			0	0			clear.?
Bgt. Achsah, Clementsport, N. S.†	29.89	759.2	32	0.0		ne.			1		5		ne.	1 h'r	1 h'r			light snow.
Bk. Bayonnaise, N. 27° 19′, W. 61° 52′†	30.27	768.8	73.4	23		sw.			4		4		w.	¾ hr	¾ hr	sm'h	n.	squally.
Bk. Chas. Stewart, N. 5° 00′, W. 28° 30′*†	30.03	762.7	80	26.7		ne.			6		8		ne	hv'y	hv'y	long	ne.	cloudy.
Schr. Clotilde, N. 24° 24′, W. 84° 01′†	30.19	766.8	72	22.2		ne.			5		8		ne.	0	0	sm'h	n.	cloudy.
Bk. Celestina, Cadiz, Spain*†	30.41	772.4				n.			1		0			0	0			clear.
Bkt. C. S. Bushnell, N. 36° 44′, W. 0° 22′	30.38	771.6				ene.			2		1		e.	0	0	sm'h		
S. E. J. Spicer, Liverpool, Eng.	30.47	773.9	46	7.8	100	w			4		10		wnw.	rain	rain			raining.
S. E. B. Sutton, N. 30° 30′, W. 38° 35′ *†	29.93	760.2	67	19.4	89	nne.			6		3		ne.	rain	rain	h'vy	var.	fair.
S. Hedwig, N. 35° 51′, W. 4° 32′	30.35	770.8	59.5	15.3	93	e.			1		3		e.	0	0	1	e.	fine.
Bk. Heinrich & Tonio, N. 42° 20′, W. 36° 00′*†	30.42	772.7	62	16.7	88	ese.			2		0			0	0	mod.	w;e	clear.
Bk. Hattie G. McFarland, Ship Island, Miss.						ne.			2					0	0			fair.
S. Henry, N. 41° 40′, W. 43° 13*	30.16	766.1	57.6	14.2		sse.			4		6 ks					4	w.	fair.
Bk. Idaho, N. 38° 20′, W. 73° 40′.						wnw.			4		0			0	0	mod.	nw.	clear.
Bg. John Wesley, Havana, Cuba, W. I.						calm			0		0			0	0			clear.
Schr. John L. Thomas, Hobbles Cays, C. A †	30.00	762.0	77	25.0	91	ne.			4		5		ene.	1 h'r	1 h'r	h'vy	ene.	squally.
Bg. L. & W. Armstrong, Pointe Pitre, Guadeloupe†	30.02	762.5				e.			1		1		e.	0	0	sm'h		fine.
S. S. Laurel, Egmont Key Light., Fla†	30.24	768.1	60	15.6		ne.			3–4		0			0	0			clear.
S. S. Madrid, Gibraltar, Mediterranean	30.41	772.4	62	16.7	77	ene.			3		2		ene.	c	0	sm'h		fair.
S. S. P. de Satrastegui, Havana, Cuba	30.20	767.1				ne.			4		6			0	0			fair.
Bg. Rising Sun, N. 37° 15′, W. 71° 30′†	30.02	762.5	50	10.0		nw.			4		9		nw.	0	0	long	n.	
Bk. Rosalie, N. 27° 48′, W. 40° 24*†	29.99	761.7				nnw.			6		0			1 h'r	1 h'r	high	ne.	clear.
S. Salisbury, N. 33° 07′, W. 18° 08′			66.9	19.4	88	se.			5–6		6 kn		se.	0	0	r'gh	var.	fair.
Bk. Tuck Sing, N. 19° 44′, W. 77° 24′*†	30.09	764.3				n.			2		0			0	0	sm'h		clear.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.97	761.2	75	23.9	77	w.			1		2		w.			sm'h		fair.
U. S. S. Pinta, Pernambuco, Brazil	30.06	763.5	80	26.7	74	ese.			2		10							cloudy.
H. M. S. Amethyst, Maldonado Bay, Uruguay	29.94	760.5	70.2	21.2	85	calm			0		0							misty.
H. M. S. Boadicea, S. 20° 30′, E. 0° 27′	30.03	762.7	76	24.4		e.			2		3	ese.				2	e.	blue sky
H. M. S. Opal, S. 11° 42′, E. 12° 42′	29.96	761.0	79	26.1	86	s.			2		4	s.				2	s.	d. clouds.
H. P. M. S. Tejo, S. 3° 23′, E. 10° 35′	30.17	766.2	83.3	28.5	92	sw.			3		3			0	0	2	w.	blue sky.
S. S. Sirius, Rio de Janeiro, Brazil	29.95	760.7				ssw.			2		8		ssw.	5 h'r	5 h'r			fair.
Bg. Daphne, S. 0° 40′, W. 33° 00′ *†	29.92	760.0	78	25.6	86	s.			1		10		var.	15 h'r	15 h'r	chop	var.	raining.
Bk. Horace Scudder, S. 7° 12′, E. 7° 12′*†	30.10	764.5	80	26.7		ese.			2		3		s.	0	0	light	s.	clear.
Bkt. Levanter, S. 7° 05′. W. 34° 30′*	30.01	762.2	82	27.8		se.			4		10		se.	0	0	mod.	ese.	cloudy
S. Parker M. Whitmore, S. 8° 24′, W. 27° 21′*†	29.96	761.0	81	27.2		ese.			5		2		se.	0	0	sll't	se.	clear.
S. St. David, S. 54° 05′, W. 55° 55′ *†	29.78	756.4	48.0	8.9	85	nw.			3		3		nw.	2 h'r	2 h'r	mod.	w.	hazy.
S. David Stewart, Pernambuco, Brazil †	29.82	757.4	87	30.6		ese.			4		4		se.	0	0			
Bk Godeffroy, S. 56° 57′, W. 63° 32′	29.35	745.5	45.0	7.2	95	nne.			4		9		n.	1 h'r	1 h'r	sm'h	w.	drizzling.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.90	759.4	41.5	5.3	78	calm			0		0			0.13	3.3			foggy.
U. S. S. Adams, Sitka, Alaska †	30.29	769.4	34	1.1	90	calm			0		10							misty.
U. S. S. Alert, N. 16° 06′, W. 169° 48′	29.92	760.0	76	24.4	77	n.			3		10		n.			long	wsw.	cloudy.
U. S. S. Essex, Canton, China	30.20	767.1	70	21.1	80	nnw.			1		10							raining.
U. S. S. Juniata, Shanghai, China	30.32	770.1	43	6.1	92	calm			0		0			0	0			clear.
U. S. S. Monocacy, Shanghai, China	30.35	770.9	45	7.2	61	ne.			1		0							clear.
U. S. S. Ranger, La Union, Honduras	30.02	762.5	77	25.0	77	n.			1		2			0	0			fair.
U. S. S. Richmond, Shanghai, China	30.32	770.1	47	8.3	92	ese.			1		0			0	0			hazy
H. M. S. Audacious, Hong Kong, China	30.16	766.1	67	19.4	83	e.			3		10	e.						overcast.
H. M. S. Cleopatra, off Amoy, China	30.20	767.1	64.5	18.1	81	se.			1		8	se.				sm'h		d. clouds.
H. M. S. Champion, Woosung, China	30.34	770.6	48	8.9	92	se.			1		0							blue sky.
H. P. M. S. Pamega, Macao, China	30.23	767.8	67.1	19.5	81	n.			5		10			0	0			overcast.
S. S. Newbern, N. 24° 50′, W. 112° 24′*†	30.12	765.0	62	16.7	61	nw.			3		0			0	0	small	wnw.	clear
S. S. Oceanic, N. 34° 36′, E. 141° 31′	30.02	762.5	47	8.3	64	w.			4		3		wnw.	0	0	4	w.	clear.
S. S. Oregon, San Francisco, Cal.			45	7.2	84	calm			0		0							clear.
S. S. Alameda, San Francisco, Cal †	30.05	763.3	44	6.7	84	ese.			1		1		ese.	0	0			
S. S. Ancon, San Francisco, Calf	30.02	762.5	45	7.2	76	calm			0		0			0	0			clear.
S. S. City of Chester, near Point Reyes, Calf	30.05	763.3	50	10.0	86	se.			4		0					h'vy	nw.	
S. S. Orizaba, N. 32° 40′, W. 117° 14′ †	30.10	764.5	56	13.3	81	ese.			3		0			0	0	light	sw.	clear.
S. S. Queen of the Pacific, San Francisco, Cal. †	30.05	763.3	45	7.2	92	calm			0		0			0	0	long		clear.
S. S. State of California, Portland, Oregon †	30.39	771.9	35	1.7	100	calm			0		10							foggy.
S. S. City of Pekin, N. 40° 10′, E. 159° 15′			43	6.1	75	nw.			5		10		nw.			h'vy	nw.	squally.
S. S. Colima, Mazatlan, Mexico†	30.03	762.7	71	21.7	75	nw.			3		9		nw.	0	0	small	w.	cloudy.
S. S. Granada, San Jose, Guatemala†	29.95	760.7	74	23.3	81	calm			0		0			0	0	light		clear.
Bk. Alpheus Marshall, N. 1° 34′. E. 168° 12′ *†	29.67	753.6	82	27.8	87	nne.			3		10		ne.	2 h'r	2 h'r	mod.	ne.	threatening
S. S. Benalder, N. 2° 30′, E. 105° —′*	29.98	761.5	80	26.7	91	ne.			5		5		nne.	shr's	sh'rs	mod.	nne.	fair.
S. S. Radnorshire, Strait of Malacca*†	29.95	760.7				ene			3		5		nne.	0	0			fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 23° 41′, W. 78° 13′	30.01	762.2	68	20.0	90	sse.			3		8?			0	0	sm'h	s.	clear.?
U. S. S. Iroquois, Talcahuano, Chili	29.97	761.2	61	16.1	88	ssw.			2		0					sm'h		clear.
U. S. S. Lackawanna, S. 24° 47′, W. 75° 21′	30.03	762.7	68	20.0	74	sse.			3		10					mod.	s.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.06	763.5	68	20.0	84	se;			1		10		se.			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru.*†	30.13	765.3	67	19.4	95	se.			2		8		s.			sm'h		cloudy
H. M. S. Diamond, S. 39° 14′ E. 150° 10′	29.76	755.9	65	18.3	78	n.			4		9	n.				4	n.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.76	755.9	62	16.7	83	sw.			2		5					sm'h		showery
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.90	759.4	65	18.3		ene.			1							1	ene.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.56	750.8	65	18.3	?	n.			3		1	n.						blue sky.
H. M. S. Sylvia, Sandy Point, Patagonia	29.31	744.5	51.7	10.9	93	sw.			2		10							overcast.
S. S. Australia, S. 35° 54′, E. 175° 00′	30.00	762.0	63	17.2		s.			0		4		sw.	1 h'r	1 h'r	sm'h	ssw.	clear.
S. S. City of Sydney, S. 14° 06′, W. 170° 45′ *†	29.76	755.9	83	28.3	71	wnw.			2 cs			wnw.				light	nw.	clear.
S. S. George S. Homer, S. 26° 45′, W. 123° 10′*†	30.15	765.8				calm			0		1		sse.	0	0	long	s.	clear.
S. Izmir, S. 20° 14′, W. 71° 56′*	30.27	768.8				ssw.			1		5		ssw.	0	0	sm'h	n.	fair.
S. St. Francis, S. 31° 49′, W. 81° 45′ *†	30.30	769.6	70	21.1	70	sw.			2		1		sw.	0	0	long	wsw.	clear.
S. Grecian, S. 25° 25′, W. 128° 30′ †	30.15	765.3	76	24.4	86	ene.			3		2		ene.	0	0	long	s.	clear.
S. Henry Failing, S. 28° 08′, W. 127° 07′* †.	30.05	763.3	76	24.4	100	nw.			1		5		w.	0	0	long	s.	fair.
H. M. S. Espeigle, S. 45° 49′, E. 170° 39′	29.79	759.7	48	8.9	70	n.			1		3							d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Hellville, Nossi Be Id., Africa	29.86	758.4	85	29.4	79	w.	10	4.5			8		w.	0	0	sm'h		cloudy.
U. S. S. Pensacola, S. 17° 39′, E. 59° 12′*	29.87	758.7	82	27.8	75	e.			2		5		e.	0	0	mod.	e.	fair.
H. M. S. Coquette, N. 15° 30′, E. 39° 24′	29.98	761.5	83	28.3	79	ne.			1		4					sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.96	761.0	80	26.7	78	e.			3		6	se.						d. clouds.
H. M. S. Orontes, S. 2° 14′, E. 49° 44′	29.95	760.7	79	26.1	100	n.			4		8					2	n.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.94	760.5	82	27.8	83	ne.			1									d. clouds.
S. S. Galatia, N. 8° 29′, E. 67° 24′†	29.97	761.2	78	25.6	69	n.			3		1	wsw.				1	ne.	blue sky.
S. S. Port Phillip, N. 5° 28′, E. 60° 27′*	30.00	762.0	77	25.0	86	ne.			3		3		ne.	0	0	mod	nne.	clear.
S. Carondelet, S. 14° 11′, E. 118° 01′*†	29.93	760.2	81	27.2		ne.			4							mod.	ne.	clear.
S. S. Lepanto, Bombay, India	29.82	757.4				ese.			6		9		ese.	3 h'r	3 h'r	sm'h	wnw.	raining.
H. M. S. Magpie, N. 8° 29′, E. 97° 39′	30.02	762.5				ne.			1		0			0	0			clear.
	29.92	760.0	81.5	27.5	71	nnw.			1		4					2	ne.	d. clouds

International Chart I. January 13, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 14, 1884,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.34	770.5	59.4	15.2	85	w.			1		0			0	0	clear	Roziere.
Algiers			30.35	770.8	51.4	10.8	72	nne.			3		3			0.087	2.2	pretty fair	Aubert.
La Galle			30.18	766.5	57.2	14.0	55	n.			3		3			inap.	inap.	pretty fair	Fonfrède.
Tunis			30.08	763.9	52.9	11.6	34	n.			0		2			0	0	fair	Delord.
Tebessa					53.6	12.0	89	n.			4		6			0	0	cloudy	Hans.
Geriville					37.8	3.2	80	n.			2		4			0	0	cloudy	Forfert.
Laghouat			30.34	770.5	50.4	10.2	82	calm			0		0			0	0	clear	Abraham.
Biskra			30.23	767.9	55.8	13.2	51	n.			4		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.93	760.2	66.8	19.3	57	sw.	7	3.1		2 ck				0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.10	739.1	29.29	744.0				wnw.			3		3		w.	0.03	0.8	clear	Com. I. Short, R.N.
Melbourne, Victoria	29.70	754.4	29.79	756.6	63.7	17.6	82	sse.	5	2.2			8			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.73	755.1	30.31	769.9	33.1	0.6	62	nw.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.33	745.0	30.13	765.4	33.1	0.6	96	sw	8.1	3.6			10			0	0		Dr. Wierzbiski
Eperies	29.26	743.1	30.20	767.1	22.3	— 5.4	86	calm			0		9 s			0	0		Julius Mikolik.
Gratz	28.99	736.4	30.32	770.0	30.9	— 0.6	60	nw.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.72	729.6	30.26	768.6	25.2	— 3.8	95	n.			2		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.93	734.8	30.34	770.7	34.5	1.4	89	w.			2		10			0.335	8.5	rain & snow	The Staff.
Lemberg	29.08	738.6	30.12	765.0	29.8	— 1.2	73	w.			5		6			0.008	0.2		Dr. T. Stanecki.
Pola	30.15	765.8	30.26	768.7	41.7	5.4	49	ene.			2		0			0	0		I. R. Hydrographic Office.
Szathmar	29.73	755.1	30.22	767.7	23.0	— 5.0	100	nw.			3		0			0.012	0.3		Joseph Midlinszky, S. J
Szegedin	29.95	760.6	30.24	768.2	31.3	— 0.4	78	nw.			1		0			0.028	0.7		Karl Stancel.
Trieste	30.21	767.3	30.31	769.8	42.6	5.9	33	calm			0		0			0	0		Royal Academy.
Vienna	29.52	749.7	30.27	768.8	36.3	2.4	75	w.			4		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.65	727.8	30.09	764.3	37.9	3.3	100	w.			2		4			0.028	0.7		
Brussels	30.17	766.4	30.38	771.7	44.4	6.9	76	wsw.			3		10		wnw.	0	0		
Furnes	30.37	771.5	30.39	772.0	46.0	7.8	83	nw.			1		8			0.020	0.5		
Maeseyck	30.24	768.2	30.37	771.4	43.2	6.2	87	w.			1		10			0.157	4.0		
British.																			
Aberdeen	30.02	762.5	30.12	765.0	47.7	8.7	72	nw.	14	6.3			5			0	0	blue sky	W. Roswell.
Bidston, Liverpool Obs'y			30.37	771.4	48.0	8.9	92	wsw.	6	2.7			10					overcast	John Hartnup.
Bolton, Sharples	29.79	756.7	30.33	770.4	46.4	8.0	96	w.	24	10.7			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.89	759.2	30.29	769.4	48.5	9.2	90	nw.			3		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.07	763.8	30.10	764.5	81	27.2	70	ne.			4		2					blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	30.28	769.1	30.40	772.1	45.5	7.5	92	w.			0.6		10					overcast	John McLaren.
Chatham, School M. E.	30.23	767.8	30.41	772.4	45.3	7.4	82	nw.			1		9					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.34	770.6	30.58	776.7	48.4	9.1	89	w.			2		10					overcast	The Staff.
Fort Napier, Natal	27.50	698.5	29.80	756.9	91.2	32.9	47	ne.			1		2					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	87	30.6	65	e.			1		1					d. clouds	J. W. Smith.
Galway, Queen's College	29.01?	759.7?	29.95?	760.7?	50	10.0	93	w.			2		6			0.03	0.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.30	769.6	30.35	770.9	60.0	15.6	88	nw.			3		4					d. clouds	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	30.23	767.8	30.41	772.4	45.7	7.6	80	sw.			3		9					d. clouds	The Staff.
Guernsey	30.24	768.1	30.54	775.7	48.0	8.9	85	nnw.			1		8					d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	30.39	771.9	30.42	772.7	46.7	8.2	76	w.	10	4.5			7					d. clouds	The Staff.
Leicester, Museum	30.10	764.5	30.36	771.1	47.0	8.3	86	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.76	755.9	29.84	757.9	47.2	8.4	52	nw.			2		6			0.23	5.8	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.17	766.3	71.5	21.9	92	se.			4		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.19	766.8	30.42	772.7	46.8	8.2	85	sw.			4		3					blue sky	The Staff.
Plymouth	30.47	773.9	30.54	775.7	46.0	7.8	96	wsw.			2		10					drizzling	John Merrifield.
Sandwick Manse, Orkneys	29.93	760.2	30.03	762.7	44.3	6.8	84						10					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.65	753.1	29.72	754.9	40.6	4.8	92	nne.			3		10					heavy rain	W. H. Lyne
Sheffield	30.04	762.0	30.33	770.4	50.0	10.0	89	w.			2		9			0	0	overcast	W. F. Cooper.
Stiloth Rectory	30.26	768.6	30.29	769.4	47.7	8.7	95	w.			4		7			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.35	770.9	46.9	8.3	93	w.	21	9.4			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					47.8	8.8	85	w.			1.5		3					blue sky	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.58	776.7	30.60	777.2	51.5	10.8	90	nw.	11	4.9			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.50	749.3	29.89	759.2	45.3	7.4	53	nw.	18.6	8.3		0	6 n		nw.	0.53	13.5	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.45	748.0	29.49	749.0	20.0	— 6.7		calm	0	0			10 n			0.15	3.8	snowing	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.44	747.8	29.49	749.0	26	— 3.3	91	se.	17	7.6			10 n		w.	0.400	10.2	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.38	746.2	29.45	748.0	18	— 7.8	87	e.	2	0.9			10 s		e.	0.14	3.6	cloudy	G. A. Blair.
Cornwall, Ontario	29.56	750.8	29.76	755.9	14.0	—10.0	92	e.			1		10 s			0.550	14.0	overcast	Jas. Smith, M. A.
Dalhousie, N. B	29.43	747.5	29.49	749.0	14.0	—10.0		e.			1		10 n			0.400	10.2	snowing	H. A. Johnson.
Father Point, Quebec*	29.46	748.3	29.48	748.8	9	—12.8	91	s.	2	0.9			10 n			0.03	0.8	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.52	749.8	30.55	776.0	—36	—37.8	100	n.	4	1.8		0	0			0	0	clear	James Stewart.
Fredericton, N. B	29.40	746.7	29.47	748.5	15.9	— 8.9	86	w.	1	0.4			10 n			0.240	6.1	snowing	Prof. Thos. Harrison
Grand Manan, N. B	29.41	747.0	29.46	748.3	34	1.1	82	w.	22	9.8		0	8 ks		w.	0.20	5.1	clearing	J. Chipman Seeley
Granton, Ontario	28.80	731.5	29.96	761.0	25.2	— 3.8	97	nw.	5	2.2			10 n			inap.	inap.	overcast	Jas. Grant.
Halifax, N. S*	29.38	746.2	29.51	749.5	35	1.7	92	s.	13	5.8			10 n		s.	0.250	6.3	light rain	A. Allison.
Hamilton, Ontario	29.34	745.2	29.77	756.1	19.7	— 6.8	85	sw.			1	10 ck	0	sw.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.45	748.0	29.81	757.2	20	— 6.7	87	nw.	4	1.8		8 cs	0	w.		0.17	4.3	fair	A. P. Knight, M. A.*
Little Glace Bay, N. S	29.58	751.3	29.63	752.6	25.6	— 3.6	90	sw.	6	2.7			10 n			0.300	7.6	snowing	C. H. Rigby.
London, Ontario	29.00	736.6	29.95	760.7	25.6	— 3.6	90	calm			0		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.79	705.9	30.20	767.1	22	— 5.6	96	sw.	14	6.3			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	28.21	716.5	30.50	774.7	—24	—31.1	100	nw.	4	1.8		0	2 s		nw.	0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	29.45	748.0	29.67	753.6	15	— 9.4	87	w.	22	9.8		2 cs	0			0.48	12.2	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.54	750.3	29.78	756.4	10.9	—11.7	83	w.				0	1 ks			0.10	2.5	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	28.93	734.8	29.90	759.4	15	— 9.4	83	n.	15	6.7			10 n		w.	0.20	5.1	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.14	740.1	29.94	760.5	15.6	— 9.1	64	sw.			2		10 k			0.18	4.6	overcast	Wm. O'Connor, M.A.
Port Arthur	29.57	751.1	30.40	772.1	—20	—28.9	100	s.	6	2.7		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.23	742.4	29.95	760.7	27	— 2.8	100	w.	8	3.6			10 cs			0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.28	743.7	29.96	761.0	26	— 3.3	88	w.	10	4.5			10 n		w.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	27.83	706.9	30.41	772.4	— 8	—22.2		calm	0	0		10 cs	0	nw.		0.05	1.3	cloudy	Leslie Gordon.
Quebec, Quebec*	29.17	740.9	29.55	750.6	14	—10.0	64	sw.	4	1.8			10 ks		w.	0.70	17.8	light snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.34	745.2	29.83	757.7	11	—11.7	80	nw.	10	4.5			8 s		nw.	0.36	9.1	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.38	746.2	29.43	747.5	30	— 1.1	83	nw.	5	2.2		5 k	5 n	w.		0.40	10.2	cloudy	
St. John, N. B	29.32	744.7	29.47	748.5	31.0	— 0.6	100	sw.	16	7.2		4 k	5 k	w.		inap.	inap.	d. clouds	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			29.84	758.0	30.2	— 1.0		e.			2								The Commandant.
Saugeen, Ontario*	29.16	740.7	29.92	760.0	21	— 6.1	96	nw.	15	6.7			10 s			0.07	1.8	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian—Continued.																			
Stratford, Ontario	28.61	726.7	29.96	761.0	25.0	— 3.9	77	nw.	6	2.7			10 n			0.005	0.1	d. clouds	W. Mc Bride, M. A.
Sydney, C. B*	29.68	753.9	29.75	755.6	19	— 7.2	91	se.	2	0.9			10 n			0.05	1.3	light snow	T. C. Hill, C. E.
Toronto, Ontario*	29.50	749.3	29.90	759.4	27	— 2.8	88	w.	7	3.1			10 n			0.03	0.8	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.85	732.8	29.96	761 0	26.7	— 2.9	84	w.	10	4.5			10 s			0.150	3.8	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.45	748.0	29.52	749.8	36	2.2	92	w.	14	6.3			10 k		w.	0.18	4.6	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.89	759.2	29.92	760.0	74.0	23.3	86	sw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle																			Capt. R. Gardner Warton
Springbok Fontein																			J. F. Eustace
Chilian.																			
Coquimbo	29.80	757 0	29.88	759.0	62.6	17.0	90	ne.			2	10	0					cloudy	Samuel Redolez.
Iquique																			Rafael Moreno.
Niebla	29.57	751.1	29.68	753.8	61.5	16.4	81	e.			1	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.82	757.5	29.91	759.7	68.0	20.0	85	se			1	4 ck	0	se.				fair	Manuel Tobar.
Punta Corona	29.87	758.8	30.06	763.5				e.			1		10			0	0	misty	Francisco Alvarado.
Valparaiso	29.68	753.8	29.82	757.3	64.4	18.0	90	ne.				5	2					fair	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.37	771.4	30.39	772 0	39.2	4.0	90	nne.	3.8	1.7			0			0.008	0.2		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.79	756.7	29.84	757.9	41.4	5.2	87	wnw.	20	9			10					raining	Oversergent Fischer.
Fanöe	29.93	760.1	29.95	760.6	41.5	5.3	99	w.			6		10						Overloerer Lauridsen.
Godthaab, Greenland	29.58	751.3	29.62	752.4	5.0	—15.0		ne.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.54	750.4	29.59	751.5	33.4	0.8	87	sw.			4		10						A. O. Thorlacius.
Thorshavn	29.84	758.0	29.87	758.6	41.4	5.2	68	w.	18	8			5						Overloerer Bergh.
Vestervig	29 74	755.5	29.84	757.9	43.2	6.2	97	w.			6		10						Loerer Oesterool.
Egyptian.																			
Cairo	29.80	756.9			62.6	17		sw.	8.3	3.7						0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.94	760.5	30.62	777.8	45.3	7.4	94	nnw.			1		n	nw.	nw.	0	0		M. Labroue, Director.
Alençon, Normal School	30.00	762 1	30.56	776.1	44.6	7	88	nw.			1		10 k		se.	0.08	2.	covered	M. Nicot, Director.
Arras, Normal School			30.35	771.0	45.1	7.3	82	nw.			1		5		nw.	0	0	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.30	769.7	30.38	771.7	46.4	8	59	nnw.			6					0	0		M. Giraud, Director.
Bar-sur-Seine	29.91	759.6	30.49	774.4	40.6	4.8	99	s.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.24	768.0	30.52	775.1	44.6	7	88	w.			1		10			0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.52	749.8	30.45	773.3	40.5	4.7	92	s.			1		n		e.	0.138	3.5		M. Gobin, Director.
Bordeaux, Observatory	30.29	769.4	30.57	776.4	42.8	6.0	85	n.			1		8			0.004	0.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	30.00	762.0	30.58	776.6	43.7	6.5	85	sw.			1				sw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	30.36	771.2	30.61	777.4	47.8	8.8	92	n.			1		5		n.	0.008	0.2		M. de Kermarrée, Dir.
Caen, Normal School	30.34	770.5	30.49	774 5	46.4	8	100	w.			1		5		w.	0.04	1.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch	30.13	765.2	30.46	773.7	41.2	5.1	87	sw.			1		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.90	759 4	30.42	772.6	41.5	5.3	81	w.			1					0.004	0.1	misty	M. Noël, Director.
Clermont-Ferrand Obs'y	29.10	739.2	30.52	775.3	39.7	4.3	93	n.			1		10			0.004	0.1	misty	M. Alluard, Director.
Cluny, Normal School	29.64	752 8	30.52	775 2	41.0	5	85	w.			1		9		w.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.58	751.4	30.47	774.0	39.4	4.1	95	w.			1		10	w.	w.	0	0	foggy	Dr. Coulet, Director.
Gap, Normal School	27.73	704.3	30.39	771.8	36.7	2.6	58	e.			6	3 ck				0	0		M. Jarach, Director.
Gréasque, du Rhone	29.15	740.3	30.31	769 9	44.8	7.1	64	nw.			1		5		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.63	752.6	30.44	773.1	38.8	3.8	76	e.			1		kn		n.	0	0		M. Ablard, Director.
Guéret, Normal School	28.98	736.0	30.63	778.0	39.2	4	67	nw.			1		n		nw.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.91	759.6	30.54	775.8	46.4	8.0	61	ne.			1		2 s			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.51	775.0	30.61	777.6	50.7	10.4	68	nnw.			1		5	n.	nnw.	0	0	½ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.40	746 8	30.50	774.8	40.3	4.6	84	nnw.			2		10 n		n.	0	0	misty	M. André, Director.
Mans, Normal School	30.26	768.5	30.58	776.7	44.4	6.9		nnw.			1		10					light rain	M. Richard, Director.
Marseille, Observatory	30.02	762.4	30.29	769.4	49.6	9.8	43	nw.			2		6		nw.	0	0		M. Stephan, Director.
Montlouis	25.04	635.9	29.88	758.9	41.0	5.0	51	w.	13.2	5.9			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.17	766.3	30.28	769.1	51.4	10.8	80	nnw.			2		1		s.	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.65	753.1	30.47	773.8	39.2	4.0	90	w.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	30.45	773.3	30.61	777.4	46.4	8.0	83	nnw.			0–2		7 k; kn		nnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.25	768.3	30.36	771 2	52.3	11.3	36	nw.	18.6	8.3			7	n.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.1			24.8	— 4.0		ne.			1		1		n.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.30	744.3	30.41	772.4	45.0	7.2	55	n.			1		n	n.	n.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.43	645.8			26.2	— 3.2	100	n.			3		10			0.004	0.1	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.54	775.8	30.58	776.6	47.1	8.4	83	calm			0		10		n.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.33	770.3	30.55	776.0	46.0	7.8	83	nw.			1		5			0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.19	716 1	30.43	772 9	39.4	4.1		w.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.47	774.0	30.52	775.2	46.8	8.2	78	nw.			1		10	nw.		0	0	covered	M. Mouillot, Dir.
St. Lô, Normal School			30.45	773.4	46.8	8.2	76	nw.			1		n	w.	nw.	0.012	0.3		M. Delaplanche, Dir.
Saint Maur, Observatory	30.32	770 2	30.49	774.4	44.4	6.9	84	nw.			1				wnw.	0.008	0.2		M. Renou, Director.
Toulouse, Observatory	29.82	757.4	30.55	776.0	43.2	6.2	79	nw.			1		5	nw.		0	0	cloudy	M. Baillard, Director.
Tours	30.36	771.2	30.54	775.7	47.5	8.6	83	nw.			2		8	n.	nnw.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.98	761.6	30.48	774.1	43.5	6.4	82	n.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.43	772.8	30.58	776 6	43.3	6.3	82	e.	2.0	0.9			1 k		n.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.87	733.3	30.40	772.1	34.9	1.6	95	calm			0		10			0	0		Prof. Jnedt.
Bamberg	29.40	746.7	30.25	768.3	39.2	4.0	66	w.			3		7 k		w.	0.031	0.8		Prof. Dr. Hoh.
Berlin	29.97	761.2	30.12	765.0	40.1	4.5	92	w.			1		10			0.055	1.4		Meteorological Institute.
Breslau	29.60	751.7	30.13	765.2	35.6	2.0	89	w.			3		10			0.016	0.4		Royal University Obs'y
Carlsruhe	29.95	760.6	30.43	772.9	40.1	4.5	89	sw.			2		10	sw.		0.043	1.1		Albert Senz.
Cassel	29.52	749 9	30.24	768 0	41.0	5.0	84	w.			1		6	sw.		0.102	2.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.98	761.6	30.37	771.3	41.9	5.5	88	sw.			1		10			0.055	1.4		Physical Society.
Friedrichshafen	28.98	736.1	30.47	773.9	36.7	2.6	89	sw.			2		10	w.		0.362	9.2	raining	Wilhelm, Chief Tel.
Hamburg	30.03	762.8	30.12	765.1	41.2	5.1	95	w.			4		10			0.071	1.8	light fog	E. Preller.
Kiel	30.02	762.5	30.04	762.9	41.9	5.5	91	w.			4		10			0.102	2.6		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.79	756 6	30.22	767.7	38.3	3.5	85	w.			2		9	wnw.		0.079	2.0	foggy	H. Lepping, Asst.
Magdeburg	29.68	761.4	30.17	766.4	42.6	5.9	83	w.			2		10			0.008	0.2		Weather Observatory.
Memel	29.82	757 3	29.86	758 5	35.4	1.9	100	sw.			3		10 s						Isermann.
Munich	28.50	724.0	30.39	771.9	35.8	2.1	84	nw.			4		9	w.		0.063	1.6		Central Station.
Neufahrwasser	29.87	758.6	29.88	759.0	37.2	2.9	86	w.			1		10	w.		0.055	1.4		A. Lothes.
Neustadt, Palatinate	29.84	757.8	30.37	771.3	43.0	6.1	81	w.			1		10			0.378	9.6	raining	Dicknether.
Stuttgart	29.43	747.4	30.35	771.0	40.5	4.7	81	w.			1		10			0.059	1.5		Prof. Dr. Schoder.
Wustrow	29.93	760.3	29.96	760.9	39.7	4.3	89	sw.			4		10			0.008	0.2		Profs. Brandes & Reimer
Greek.																			
Athens	29.28	743.7	29.68	753 8	44.6	7.0		n.			3.0		10			0.031	0.8	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.98	761.5	30.03	762.8	73.9	23.3	48	ene.	15.0	6.7			0			0	0	blue sky	
Deesa	29.48	748.9	29.96	761 0	79.7	26.5	32	wsw.	4.0	1.8			3	nnw.	nnw.	0	0	d. clouds	
Bombay	29.96	760.8	29.99	761.8	75.1	23.9	72	wnw.	12.0	5.4			0			0	0	blue sky	
Poona, Yarrowda	28.08	713.3	29.95	760.6	78.3	25.7	21	w.	7.0	3.1			0			0	0	blue sky	
Belgaum	27.42	696.3	29.97	761.2	74.8	23.8	25	calm	2.0	0.9			0			0	0	blue sky	
Lahore	29.32	744.6	30.10	764.5	57.1	13.9	78	n.	2.0	0.9			8			0.07	1.8	d. clouds	
Roorkee	29.13	740.0	30.07	763.7	65.8	18.8	59	w.					4	w.		0	0	d. clouds	
Agra	29.44	747.9	30.02	762.5	74.2	23.4	48	e.	6.0	2.7			8		e.	0	0	d. clouds	
Nagpur	28.96	735.6	30.02	762 4	76.5	24.7	28	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p.sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Indian.—Continued.																			
Jubbulpore	28.63	727.2	30.02	762.5	69.7	20.9	47	calm	1.1	0.5			2			0	0	d. clouds	
Lucknow	29.67	753.6	30.06	763.6	66.3	19.1	60	calm	0	0			0			0	0	blue sky	
Allahabad	29.73	755.1	30.05	763.4	64.8	18.2	73	calm	0	0			0			0	0	blue sky	
Patna	29.87	758.6	30.06	763.6	67.2	19.6	60	se.	2.6	1.2			0			0	0	blue sky	
Hazaribagh	27.98	710.7	30.04	763.0	67.8	19.9	34	calm	2.0	0.9			0			0	0	blue sky	
Cuttack	29.96	761.0	30.05	763.2	73.2	22.9	63	calm	0	0			5			0	0	d. clouds	
Calcutta, Alipore	30.01	762.3	30.04	762.9	67.9	19.9	74	ssw.	2.0	0.9			2			0	0	d. clouds	
Dhubri	29.96	760.9	30.08	764.0	65.1	18.4	68	calm	1.2	0.5			0			0	0	blue sky	
Chittagong	29.99	761.7	30.08	764.0	66.1	18.9	73	calm	2.1	0.9			0			0	0	blue sky	
Sibsagar	29.75	755.7	30.11	764.8	58.1	14.5	92	ne.	1.6	0.4			0			0	0	blue sky	
Jeypore	28.54	724.8	30.01	762.3	69.9	21.1	47	ese.	2.6	1.2			3		ese.	0	0	d. clouds	
Zanzibar	29.89	759.1	29.91	759.7	85.9	29.9	59	ene.	11.2	5.0			4			0	0	d. clouds	
Bellary	28.48	723.4			77.0	25.0	25	e.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.74	755.4			80.0	26.7	54	ene.	0.3	0.1		3	4			0	0	d. clouds	
Italian.																			
Udine	29.85	758.3	30.28	769.1	41.0	5.0	27	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.76	755.8	30.30	769.5	39.6	4.2	49	sw.	2.5	1.1			0			0	0		Prof. G.V.Schiapparelli
Padua	30.17	766.3	30.28	769.2	37.6	3.1	55	nnw.	3.1	1.4			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.38	746.2	30.32	770.2	37.6	3.1	56	nnw.	4.3	1.9			0			0	0		Prof. F. F. Denza.
Genoa	30.06	763.4	30.25	768.4	51.8	11.0	20	e.	1.3	0.6			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.23	767.8	30.28	769.1	40.6	4.8	70	nw.	11.9	5.3			0			0	0		Prof. Luigi Guidi.
Florence	29.95	760.6	30.21	767.3	41.2	5.1	47	ne.			2		0			0	0		Prof. Costantino Pittei.
Leghorn	30.13	765.2	30.21	767.4	45.3	7.4	38	ne.	7.4	3.3			0			0	0		Prof. P. Monte.
Rome	29.91	759.7	30.09	764.3	46.6	8.1	18	n.	12.5	5.6			0			0	0		Prof. P. Tacchini.
Lecce	29.56	750.7	29.82	757.4	46.8	8.2	47	nne.	26.2	11.7			9	ne.		0	0		Prof. C. de Giorgi.
Cosenza	28.92	734.6	29.85	758.1	36.7	2.6	72	wnw.	3.8	1.7			10	w.		0.197	5.0		Prof. D. Conti.
Cagliari	29.97	761.3	30.17	766.3	49.1	9.5	39	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.66	753.4	29.92	759.9	41.4	5.2	61	nnw.	43.4	19.4			10	nnw.		0.051	1.3		Prof. G. Cacciatore.
Syracuse	29.72	754.8	29.76	755.9	50.0	10.0	64	nw.	12.5	5.6			10	wnw.		0.177	4.5		Sig. V. Giuliani.
Sub-series.																			
Naples, Astron'l Obs'y	29.46	748.3	30.01	762.2	41.0	5.0	49	nne.	5.6	2.5			9	ene.		0	0		Prof. F. Brioschi.
Japanese.																			
Akita	29.90	759.4	29.93	760.3	32.0	0.0	97	calm			0		10 n			0.236	6.0	snowing	H. Hattori.
Awomori	29.86	758.4	29.90	759.4	29.2	−1.6	79	w.	0.3	0.1			10 s			0.049	1.2	overcast	K. Ogawa.
Hakodate	29.88	758.9	29.89	759.2	27.3	−2.6	86	w.	6.0	2.7		2 ck	0	nw.		0	0	clear	Y. Souma.
Hamamatsu	29.92	759.0	30.02	762.4	40.0	4.9	72	w.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.11	764.8	30.13	765.2	38.3	3.5	85	se.	1.0	0.4		1 ck	0	w.		0	0	clear	Y. Okamoto.
Kagoshima	30.20	767.1	30.21	767.2	44.9	7.2	92	n.			2		10 s		w.	0	0	overcast	
Kanazawa	29.93	760.2	30.04	762.9	40.2	4.6	76	ssw.	8.1	3.6			9 ks		sw.	0.557	14.1	overcast	S. Endo.
Kioto	29.91	759.8	30.09	764.2	32.7	0.4	94	n.	0.1	0.04		0	0			0	0	clear	M. Tojima.
Kochi	30.09	764.2	30.11	764.7	44.1	6.7	65	wnw.	5.1	2.2		0	0			0	0	clear	K. Kusunose.
Miasaka	30.14	765.5	30.17	766.2	48.8	9.3	66	wsw.			2	1 ck	2 ks	w.	w.	0	0	fair	K. Masusaki.
Miyako	29.83	757.6	29.94	760.4	31.2	−0.4	61	wsw.	0.3	0.1		0	9 s		nw.	0	0	cloudy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.01	762.2	30.22	767.6	44.1	6.7	76	calm	0	0		2 c	2 c	w.	nw.	0	0	fair	
Nemuro	29.75	755.4	29.80	756.9	31.5	−0.3	84	calm	0	0			10 s			0	0	cloudy	A. Shibuya.
Niigata	29.92	759.9	29.95	760.7	41.9	5.5	86	w.	22.6	10.1			10 n		w.	0.445	11.3	light rain	Satoo & Tomikawa.
Nobiru	29.92	759.9	29.93	760.3	33.5	0.8	90	calm	1.6	0.7			9 ks		w.	0	0	cloudy	Yoslino & Midzushina.
Numadzu	29.89	759.2	29.93	760.2	48.8	9.3	64	sw.			4	0	0			0	0	clear	T. Ohgi.
Osaka	30.08	764.0	30.09	764.4	36.2	2.3	89	nne.	0.9	0.4		0	0			0.010	0.3	clear	H. Omura.
Sakai	30.07	763.7	30.08	763.9	41.0	5.0	88	w.			2		10 ks		w.	0.260	6.6	cloudy	Yamawchi & Sakamoto.
Sapporo	29.78	756.5	29.85	758.3	22.1	−5.5	86	calm	0	0		0	2 ks		nw.	0.030	0.8	clear	S. Kimura.
Shimonoseki	30.01	762.3	30.16	766.0	45.1	7.3	63	sw.			4	0	3 s		wnw.	0	0	fair	S. Sakano.
Tokei Obs'y, Yeddo	29.86	758.5	29.94	760.5	36.7	2.6	85	s.	5.4	2.4		0	5 ks			0	0	fair	The Staff.
Wakayama	30.03	762.8	30.09	764.2	37.1	2.8	84	ne.	4.9	2.2		0	0			0.016	0.4	clear	K. ·akai & S. Takeda.
Mauritius.																			
Mauritius R. A. Observatory	29.80	756.9	29.99	761.7	82.0	27.8	64	ene.	11.5	5.1		2cs;c	3ks;k	ssw.	ese.	0.14	3.6	fair	The Staff.
Mexican.																			
Leon	24.33	618.0	30.22	767.6	44.2	6.8	87	calm	0	0			10ck;s			0	0	overcast	M. Leal & M. Pina.
Mazatlan	29.81	757.1	30.07	763.8	64.0	17.8	92	nw.	11.0	4.9		1 cs	0	sw.		0.079	2.0	clear	F. Quijano, C. E.
Netherlands.																			
Flushing	30.37	771.5	30.37	771.5	44.8	7.1		w.			4					0	0		
Groningen	30.24	768.0	30.29	769.4	42.6	5.9		w.			2					0.016	0.4		
Helder	30.23	767.9	30.23	767.9	43.5	6.4		wsw.			4					0.091	2.3		
Hellevoetsluis	30.34	770.7	30.34	770.7	49.3	9.6	89	w.			3					0.039	1.0		
Utrecht	30.27	768.8	30.32	770.2	45.5	7.5	88	wsw.			3		8			0.071	1.8	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.7			75.9	24.4	92	w.	0	0			9			0	0		Lt. J. J. Roptman, R.D.N.
Norwegian.																			
Bergen	29.65	753.1	29.71	754.7	40.3	4.6	90	nne.	20	9			10			0	0		
Brono	29.17	740.9	29.21	741.9	37.6	3.1	83	w.			4		10			0.858	21.8	raining	
Christiania	29.38	746.3	29.54	750.2	24.8	−4.0	100	ese.	4	2			10			0.031	0.8	foggy	
Gjæsvær	29.30	745.7	29.38	746.3	18.0	−7.8		sse.			9		0			0	0		
Lodingen	29.10	739.2	29.15	740.4	33.4	0.8	85	se.			6		10			0.185	4.7		
Portuguese.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.23	767.9	30.32	770.1	64.2	17.9	77	calm	0	0			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.04	763.0	30.39	771.9	46.0	8.3	71	nne.	10.5	4.7			5			0	0		The Staff.
Ponta Delgada, Azores	30.05	763.3	30.12	765.1	62.2	16.8	85	se.	11.9	5.3			3			1.217	30.9		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.08	763.9	30.11	764.8	72.5	22.5	86	e.			5		3			0	0		
San Salvador, Congo	28.12	714.3	29.95	760.8	78.3	25.7	67	nw.			3		9			0	0		
Serra da Estrella	25.51	648.0	30.34	770.6	43.5	6.4	59	calm	0	0			0			0	0		
Russian.																			
Akmolinski	29.33	745.0	30.56	776.2	−2.7	−19.3	87	wsw.	7	3			10 n			0	0		Major K. Lasarew.
Archangel	29.93	760.1	29.95	760.6	−17.9	−27.7	84	e.	4	2		1 cs	0			0	0		Capt. Sseliwerstow
Ashurada	30.29	769.3	30.19	766.9	56.8	13.8	60	ene.	16	7		0	7 ks			0	0	light clouds	
Astrakhan	30.08	763.9	30.00	761.9	33.6	0.9	92	sse.	4	2			10 n			0	0		Capt. Wisganow.
Baku	30.08	763.9	30.03	762.7	51.8	11.0	40	ssw.	13	6		0	7 ks			0	0		
Barnaul	29.93	760.2	30.49	774.4	5.0	−15.0	74	sw.	9	4			10			0.087	2.2		Meteorological Office.
Bielosersk	29.31	744.4	29.83	757.6	−1.8	−18.8	83	ne.	4	2			10 ks			0.004	0.1		
Dorpat	29.56	751.4	29.85	758.1	15.4	−9.2	81	calm	0	0			10 n			blank	blank	light snow	Observatory.
Ekaterinburg	29.09	738.9	30.17	766.2	−2.9	−19.4	96	se.	4	2		10 c	0			0.031	0.8	light clouds	Meteorological Obs'y.
Elisawetgrad	29.58	751.4	30.06	763.4	32.2	0.1	81	nnw.	4	2		0	5 k			0	0		
Kasan	29.59	751.6	29.88	759.0	13.5	−10.3	93	sse.	7	3			10			blank	blank		Observatory.
Kem	29.86	758.4	29.91	759.7	−6.5	−21.4	85	calm	0	0			10			0	0	h'vy clouds	
Kertch	29.82	757.3	29.84	757.9	32.0	0.0	94	ne.	9	4			10 n			0.815	20.7		Lagorio & Sastyrez.
Kieff	29.31	744.4	29.97	761.3	30.9	−0.6	68	wnw.	16	7			10ks;n			0.004	0.1	sleeting	Observatory.
Koslov	29.26	743.2	29.79	756.6	24.6	−4.1	83	sw.	20	9			10 s			0	0		
Lgov	29.30	744.1	29.91	759.6	29.5	−1.4	90	w.	13	6			8			blank	blank		R. I. Saaweljew, Engin'r.
Libau	29.78	756.4	29.80	757.0	34.5	1.4	78	ssw.	11	5			10			0	0		E. Quaas.
Lugan	29.74	755.4	29.95	760.8	33.8	1.0	83	wsw.	4	2			10			0.004	0.1		Meteorological Obs'y.
Moscow	29.21	741.8	29.72	754.8	18.7	−7.4	82	sw.	6.7	3.0		0	8 ks			0.031	0.8		Meteorological Obs'y.
Nertschinsk	27.97	710.4	30.66	778.7	−20.4	−29.1	68	nw.	2	1			0			0	0		

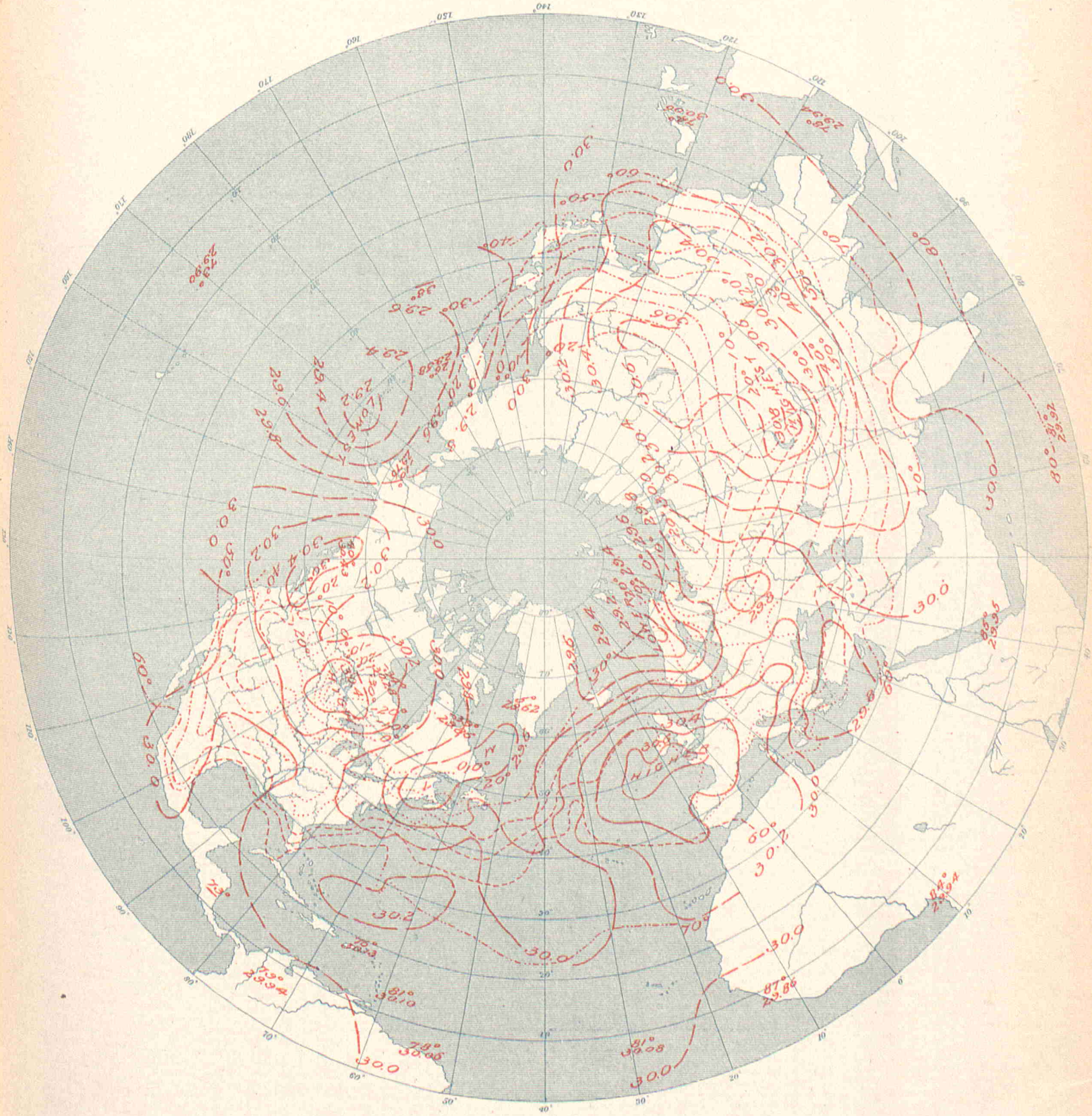
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	29.97	761.2	30.04	763.0	29.3	— 1.5	90	ne.	9	4		0	8 n			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	29.98	761.5	30.07	763.7	—12.3	—24.6	75	w.	4	2		4 c	0						Iwanow.
Pekin, China	30.31	769.9	30.45	773.5	25.2	— 3.8	51	calm	0	0		0	0			0	0		**Physical Observatory**
Petro-Alexandrovsk	30.00	761.9	30.37	771.4	32.7	0.4	79	calm	0	0		0	0						
Petrozavodsk	29.61	752.0	29.83	757.6	— 0.4	—18.0	78	calm	0	0			10			0.004	0.1	light clouds	Dr. Bergmann.
Pinsk	29.49	749.1	30.01	762.3	30.4	— 0.9	78	wsw.	18	8			9 ks			0	0		
Poti	29.89	759.3	29.93	760.1	50.0	10.0	57	e.	4	2			10 n			0	0		
St. Petersburg	29.78	756.3	29.80	756.9	9.7	—12.4	87	w.	4	2			10 kn			0.055	1.4		Central Physical Obs'y.
Samarkand	27.80	706.1	30.39	771.8	35.8	2.1	75	s.	13	6		0	0						
Semipalatinsk	29.74	755.5	30.47	774.0	10.2	—12.1	93	wsw.	31	14			10			0.047	1.2		Major Lasarew
Sevastopol	29.61	752.2	29.84	757.9	34.5	1.4	83	ne.	40	18			10 n			0.126	3.2	h'vy clouds.	
Staroi Bykhov	29.28	743.6	29.86	758.4	27.5	— 2.5	89	wnw.	7	3			10			0.013	1.1	snowing	
Tashkend, Laboratory	28.71	729.2	30.47	774.0	35.4	1.9	61	n.	7	3		0	2 k					light clouds	Terch, A. M
Tiflis	28.72	729.6	30.22	767.6	32.4	0.2	74	calm	0	0			10			0	0		Physical Observatory.
Vernoe	27.95	710.0	30.83	783.0	— 4.5	—20.3	79	calm	0	0		0	1 k						
Viatka	29.18	741.1	29.87	758.7	2.3	—16.5	93	ese.	18	8			10			0.035	0.9		
Vladivostock	30.06	763.5	30.13	765.2	7.0	—13.9	55	nnw.	18	8		0	0			0	0		
Warsaw	29.58	751.2	30.02	762.4	32.4	0.2	90	w.	16	7			10			0.122	3.1	h'vy clouds	Astronomical Obs'y.
Yeniseisk	30.23	769.0	30.62	777.7	—22.7	—30.4	81	calm	0	0			0			0	0	lunar carona	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.08	738.6	29.65	753.1	15.9	— 8.9	78	w.	0.5	0.2		0	6 s		w.	0	0	fair	**Prof. S. Fadeieff.**
Spanish.																			
Barcelona, Met. Obs'y	30.26	768.7	30.38	771.6	54.1	12.3	55	w.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.52	775.3	30.58	776.8	43.2	6.2	88	se.	0.9	0.4			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.38	695.5	30.49	774.5	39.2	4.0	53	ne.	9.8	4.4		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.11	713.9	30.41	772.3	47.5	8.6	57	e.	3.6	1.6		0	1			0	0		The Staff.
Murcia, Met. Obs'y	30.24	768.1	30.39	771.9	57.2	14.0	77	wsw.	2.2	1.0		1	2	e.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.46	748.3	30.38	771.7	50.2	10.1	63	ne.	13.6	6.1			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.03	762.8	30.10	764.5	67.8	19.9	92	ese.	2.2	1.0		0	ks			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.00	762.1	30.06	763.6	74.2	23.4	68	ene.	6.6	3.0		0	s			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.27	768.9	30.37	771.4	60.1	15.6	62	e.	10.8	4.8		0	3		e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I.	30.04	763.0	30.13	765.3	75.6	24.2	75	e.	1.0	0.4		2 s	4 k	e.	e.	0.193	4.9		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.63	752.6	29.67	753.6	11.1	—11.6	100	se.			4		10			0	0		
Umea	29.48	748.9	29.54	750.2	21.9	— 5.6	96	s.			6		10			0.524	13.3		
Hernosand	29.35	745.6	29.41	746.9	29.8	— 1.2	96	sse.			4		10			0.016	0.4		
Stockholm	29.40	746.7	29.58	751.2	31.5	— 0.3	90	sw.			2		10			0	0		
Wisby	29.65	753.1	29.71	754.6	33.8	1.0	85	wsw.			6		10			0	0		
Sub-series.																			
Upsala	29.43	747.5	29.52	749.7	29.7	— 1.3	96	ssw.	13.0	5.8			10			0.114	2.9		H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			29.77	756.2	40.5	4.7	90	n.	34	15.0			10		n.	1.220	31.0	raining	The Observatory.
Valona			29.77	756.1	46.8	8.2		ne.			2		10			0.142	3.6	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.3	67.3	19.6	65	sw.			3	c	8 n		sw.	0.02	0.5		F. Nimr, B. A., Dir
United States.																			
Albany, New York	29.69	754.1	29.78	756.4	37	2.8	72	nw.	9	4.0			10 s			0.01	0.2	cloudy	J. O. Barnes.
Alpena, Michigan	29.34	745.2	30.05	763.3	13.2	—10.4	80	w.	13	5.8			10 s			0.01	0.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.94	633.5	30.06	763.5	22.0	— 5.6	76	ne.	3	1.3		4 ck	0	w.		0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.28	692.9	30.32	770.1	21.0	— 6.1	73	nw.	4	1.8			10 n		nw.	0.01	0.3	light snow	F. Newman.
Atlanta, Georgia	28.91	734.3	30.14	765.5	41.2	5.1	58	w.	9	4.0		4 ck	0	w.		0	0	fair	S. W. Beall.
Atlantic City, New Jersey	29.83	757.7	29.84	757.9	39.0	3.9	65	sw.	8	3.6		8 k	0	sw.		0	0	cloudy	B. A. Blundon.
Augusta, Georgia	29.90	760.0	30.16	766.1	36	2.2	84	calm	0	0		3 c	fg			0	0	clear	W. J. Evans.
Baltimore, Maryland	29.82	757.4	29.87	758.7	40.0	4.4	62	w.	3	1.3		0	8 s;sk		w.	0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	29.82	757.4	29.84	757.9	34.0	1.1	78	w.	8	3.6		3 c	3 s	w.	w.	0	0	fair	F. L. Johnson.
Bennett, Fort, Dakota	28.67	728.2	30.41	772.4	9.0	—12.8	60	ne.	2	0.9			10 s			inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.35	694.7	30.33	770.4	23.0	— 5.0	28	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.42	721.9	30.42	772.7	0	—17.8	100	nw.	2	0.9		4 c	0	nw.		0.01	0.3	fair	B. O. Lenoir.
Block Island, Rhode Island	29.71	754.6	29.74	755.4	38.5	3.6	77	w.	19	8.5		7ck;cs	0	w.		0.06	1.5	fair	J. T. Elker.
Boise City, Idaho	27.36	694.9	30.29	769.4	10	—12.2	83	w.	2	0.9		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.50	749.3	29.67	753.6	38.0	3.3	85	sw.	19	8.5			10 ks		sw.	0.02	0.5	threatening	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.90	759.4	63.0	17.2	93	s.	12	5.4		0	4 s		s.	0	0	fair	John McGlone.
Buffalo, New York	29.16	740.7	29.96	761.0	28.8	— 1.8	88	w.	16	7.2			10 s		w.	0.01	0.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.16	715.3	30.39	771.9	1	—17.2	89	sw.	2	0.9		8ck;cs	0	w.		inap.	inap.	cloudy	A. Schneider.
Cairo, Illinois	29.60	751.8	30.02	762.5	38.8	3.8	74	ne.	10	4.5			10 s			0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.19	766.8	30.39	771.9	35.0	1.7	84	n.	5	2.2		1 k	0			0	0	clear	J. H. Young.
Cape Henry, Virginia	29.93	760.2	29.95	760.7	45.0	7.2	76	sw.	18	8.0			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.88	758.9	29.91	759.7	40.5	4.7	77	sw.	15	6.7			10 s		w.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.44	747.8	30.14	765.5	40	4.4	73	n.	21	9.4		0	8 ks		n.	0	0	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	46.0	7.8	83	e.	3	1.3		0	2 k		e.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.98	761.5	30.04	763.0	45.0	7.2	83	sw.	3	1.3		4 c	fg.	w.	nw.	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.10	740.7	30.05	763.3	43.4	6.3	68	sw.	1	0.4			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742.7	30.10	764.5	46.0	7.8	50	sw.	5	2.2		9 ck	sk.	sw.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.90	607.0	30.18	766.6	16.1	— 8.8	94	ne.	8	3.6			10 n			0.30	7.6	light snow	E. McGovern.
Chicago, Illinois	29.34	745.2	30.09	764.3	29.5	— 1.4	72	w.	9	4.0			10 s			0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	29.87	758.7	29.89	759.2	42	5.6	65	w.	9	4.0			10 k		nw.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.36	745.7	30.05	763.3	42.2	5.7	69	nw.	1	0.4		0	7 s		nw.	0	0	fair	L. Dunne.
Cleveland, Ohio	29.21	741.9	29.99	761.7	33.0	0.6	83	n.	5	2.2			10 s		n.	0	0	cloudy	W. Line.
Columbus, Ohio	29.11	739.4	30.01	762.2	33.1	0.6	70	s.	4	1.8			10 s		s.	0	0	cloudy	F. T. Williams.
Concho, Fort, Texas	27.90	708.6	29.92	760.0	39.0	3.9	82	sw.	12	5.4		0	8 k		sw.	0.04	1.0	cloudy	C. E. King.
Custer, Fort, Montana	26.96	684.8	30.34	770.6	11	—11.7	80	e.	4	1.8			10 ks		w.	0.02	0.5	cloudy	W. J. Daily.
Davenport, Iowa	29.44	747.8	30.15	765.8	20.5	— 6.4	69	n.	10	4.5			10 s			0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.12	638.0	30.10	764.5	35.0	1.7	71	s.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.60	726.4	30.41	772.4	23.5	— 4.7	92	s.	3	1.3		0	0			0	0	clear	H. S. Blandford.
Deadwood, Dakota	25.41	645.4	30.36	771.1	13.0	—10.6	76	n.	2	0.9		0	0			0.02	0.5	clear	G. Kingsbury.
Delaware Breakwater, Del.	29.86	758.4	29.88	758.9	39.4	4.1	75	sw.	13	5.8		0	8 ks		sw.	0	0	cloudy	G. A. Martin.
Denver, Colorado	24.62	625.3	30.14	765.5	29.0	— 1.7	92	nw.	8	3.6			10 n			0.03	0.8	light snow	F. M. Neal.
Des Moines, Iowa	29.28	743.7	30.24	768.1	16	— 8.9	62	n.	8	3.6			10 s		n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.31	744.5	30.07	763.8	31.0	— 0.6	78	sw.	8	3.6			10 s			0	0	cloudy	N. B. Conger.
Dodge City, Kansas	27.40	695.9	30.15	765.8	30	— 1.1	88	ne.	16	7.2			10 s			0	0	cloudy	J. E. Lanouette.
Dubuque, Iowa	29.38	746.2	30.15	765.8	20.8	— 6.2	67	nw.	4	1.8			10 s			0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.50	749.3	30.31	769.9	— 4.5	—20.3	77	nw.	1	0.4		0	0			0	0	clear	E. R. Brace.
Eastport, Maine	29.39	746.5	29.46	748.3	31.5	— 0.3	83	sw.	6	2.7		3 c	6 s	sw.	sw.	0.24	6.1	cloudy	D. C. Murray.
Elliott, Fort, Texas	27.03	687.8	30.01	762.2	32.0	0.0	100	ne.	23	10.3			10 n			0.21	5.3	sleeting	J. C. Rickli.
El Paso, Texas	26.19	665.2	30.07	763.8	37.2	2.9	82	nw.	12	5.4		0	0			0.06	1.5	clear	J. O'Dowd.
Erie, Pennsylvania	29.21	741.9	29.98	761.5	32.0	0.0	83	nw.	6	2.7			10 s		nw.	0.04	1.0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.47	748.5	30.19	766.8	0.0	—17.8	68	nw.	14	6.3		2 ck	0	w.		0.07	1.8	clear	L. M. Pindell.
Fort Smith, Arkansas	29.42	747.3	29.92	760.0	39.5	4.2	89	e.	2	0.9			10 n			0.40	10.2	heavy rain	J. B. Campbell
Galveston, Texas	29.81	757.2	29.85	758.2	60	15.6	93	s.	15	6.7			10n;fg		sw.	0.04	1.0	light rain	E. O'C. Macnerney
Grand Haven, Michigan	29.35	745.5	30.06	763.5	24.0	— 4.4	80	n.	14	6.3			10 s		nw.	0.01	0.3	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.19	639.8	30.09	764.3	31.4	— 0.3	80	n.	1	0.4		4 cs	0	w.		0	0	fair	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.03	762.7	30.04	763.0	49.0	9.4	71	sw.	14	6.3	.....	6 c	hz.	sw.	.....	0	0	fair	R. M. Crawford.
Helena, Montana	25.92	658.4	30.30	769.6	.....	.....	.....	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Morrison.
Huron, Dakota	29.81	757.9	30.38	771.6	3.8	—15.7	80	n.	10	4.5	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.20	741.7	30.04	763.0	35.3	1.8	69	nw.	3	1.3	.....	.....	10 s	.....	nw.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.85	758.2	29.88	758.9	61.4	16.3	99	w.	8	3.6	.....	.....	10 n	.....	e.	0.05	1.3	light rain	I. A. Reed.
Jacksonville Florida	30.14	765.5	30.19	766.8	43.0	6.1	93	calm	0	0	.....	2 cs	fg.	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.44	747.8	30.14	765.5	21.0	— 6.1	84	nw.	3	1.3	.....	1 k	0	w.	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30 09	764.3	30.11	764.8	69	20.6	93	ne.	6	2.7	.....	0	3 k	.....	ne.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.01	762.2	30.03	762.7	45.0	7.2	60	w	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.01	736.8	30.09	764.3	41	5.0	66	w.	1	0.4	.....	.....	10s;sk	.....	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.31	744.5	30.15	765.8	13	—10.6	80	n.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.21	741.9	30.17	766.3	30	— 1.1	78	n.	9	4.0	.....	10 cs	0	w.	.....	0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.52	749.8	30.39	771.9	25.4	— 3.7	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.58	751 3	29.91	759 7	43.0	6.1	74	e.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.58	751.3	29.98	761.5	53.0	11 7	80	e.	16	7.2	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	T. S. Collins.
Louisville, Kentucky	29.44	747.8	30.02	762.5	41.6	5.3	61	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.21	741.9	29.93	760.2	47.0	8.3	42	sw.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.40	746.7	30.10	761.5	10.0	—12.2	80	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.35	8.9	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.07	763.8	30.08	764.0	48.0	8.9	77	sw.	17	7.6	.....	8 cs	0	sw.	.....	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.60	650 2	30.37	771.4	15.3	— 9.3	67	sw.	5	2.2	.....	.....	10 n	.....	.....	0.05	1.3	light snow	F. Burke.
Marquette, Michigan	29.43	747.5	30.21	767.3	1.0	—17.2	75	nw.	14	6.3	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.60	751.8	29.96	761.0	46	7.8	60	se.	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.31	744.5	30.11	764.8	22.1	— 5.5	73	n.	11	4.9	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	S. W. Rhode.
Mobile, Alabama	30.03	762.7	30.07	763.8	44.9	7.2	89	n.	3	1.3	.....	10 ck	sk.	sw.	.....	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.87	758.7	30.11	764.8	37.5	3.1	86	calm	0	0	.....	.....	10s;fg	.....	.....	0	0	dense fog	Geo. E. Franklin.
Moorhead, Minnesota	29.45	748.0	30.56	776.2	—26	—32.2	100	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.09	586.5	29.72	754.9	12.0	—11.1	100	w.	50	22.4	.....	.....	10n;fg	.....	.....	0.13	3.3	light snow	Edwd. A. Beals.
Nashville, Tennessee	29.43	747.5	30.04	763.0	44.5	6.9	72	sw.	2	0.9	.....	10 cs	0	w.	.....	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.62	752.3	29.74	755.4	34.5	1.4	67	sw.	13	5.8	.....	8 c	hz.	w.	.....	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	29.77	756.1	29.82	757.4	30.0	2.2	69	nw.	10	4.5	.....	hz.	0	.....	.....	0.01	0.3	clear	J. G. Lynch.
New Orleans, Louisiana	29.91	759.7	29.97	761.2	52.0	11.1	86	se.	1	0.4	.....	3 ck	0	w.	.....	0	0	clear	M. Herman.
New York, New York	29.70	754.4	29.89	759.2	35.5	1.9	66	sw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	H. J. Peurod.
Norfolk, Virginia	29.95	760.7	29.98	761.5	45.2	7.3	60	sw.	9	4.0	.....	4 cs	0	w.	.....	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.14	689 3	30.26	768.6	31.6	— 0.2	86	calm	0	0	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. J. Mc Lean.
Olympia, Washington T'y	30.40	772.1	30.44	773.2	35.0	1.7	89	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb
Omaha, Nebraska	28.99	736.3	30.26	768.6	23.2	— 4.9	73	n.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak
Oswego, New York	29.52	749.8	29 87	758 7	30.0	— 1.1	62	nw.	18	8.0	.....	0	6 k	.....	nw.	0.26	6.6	fair	J. G. Linsley.
Palestine, Texas	29.3[illegible]	744 5	29.89	759.2	51.0	10.6	100	sw.	1	0.4	.....	.....	10 n	.....	.....	0.95	24.1	heavy rain	P. T. Jenkins.
Pensacola, Florida	30.07	763.8	30.10	764.5	47.3	8.5	96	ne.	5	2.2	.....	0	4 s	.....	sw.	0	0	fair	M. McGauran.
Philadelphia, Pa.	29.75	755.6	29.86	758.4	38.7	3.7	66	sw.	5	2.2	.....	1 c	hz.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.48	441.0	30.18	766.6	5.0	—15.0	83	sw.	38	17.0	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.10	739.1	29.95	760.7	41 8	5.4	65	sw.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	5.2	—14.9	89	ne.	1	0.4	.....	.....	10 ks	.....	.....	inap.	inap.	cloudy	G. A. Carden.
Port Huron, Michigan	29.22	742.2	29.95	760.7	25.8	— 3.4	84	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	29.48	748.8	29.53	750.0	27.0	— 2.8	88	sw.	9	4.0	.....	0	5 s	.....	w.	0.42	10.7	fair	W. W. Eichelberger.
Portland, Oregon	30.31	769.9	30.38	771.6	33.9	1.1	89	nw.	6	2.7	.....	0	2 s	.....	.....	0	0	clear	M. L. Hearn.
Prescott, Arizona	24.67	626.6	30.05	763.3	37.0	2.8	58	s.	16	7.2	.....	0	8 s	.....	sw.	0	0	cloudy	N. D. Lane.
Provincetown, Mass.	29.64	752.8	29.67	753.6	36.1	2.3	79	w.	9	4.0	.....	9 cs	rs;hz	w.	w.	0.01	0.3	cloudy	C. N. Kitchel.
Red Bluff, California	29.60	754.1	30.06	763.5	47	8.3	28	n.	23	10.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.74	755.4	29.99	761.7	57.0	13.9	80	calm	0	0	.....	5 c	0	s.	.....	0	0	fair	L. G. Schultz.
Rochester, N. Y.	29.20	741.7	29.92	760 0	28.5	— 1.9	88	nw.	17	7.6	.....	3 k	5 k	nw.	nw.	0.05	1.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.78	756.4	30.36	771.1	33.2	0.7	85	nw.	1	0.4	.....	0	9 s	.....	n.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.89	759.2	29.97	761.2	42.0	5.0	73	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.42	747.3	30.08	764.0	33.9	1.1	82	n.	16	7.2	.....	.....	10s;sk	.....	.....	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.72	754.9	29.76	755.9	—10	—23.3	100	n	.....	.....	2	3 cs	4 s	n.	.....	0	0	fair	Fred. H. Clarke
St. Paul, Minnesota	29.33	745.0	30.27	768.8	6.0	—14.4	100	nw.	2	0.9	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.48	748 8	30.46	773.7	—28	—33.3	100	w.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	C. B. Billey
Salt Lake City, Utah	25.58	649.7	30.15	765.8	28	— 2.2	67	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	threatening	J. Craig.
San Diego, California	29.90	759.4	29.97	761.2	54.6	12.6	75	e.	8	3.6	.....	.....	10 k	.....	s.	0	0	cloudy	F. R. Day.
Sandusky, Ohio	29.28	743.7	30.00	762 0	33	0.6	68	n.	18	8.0	.....	.....	10 s	.....	nw.	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.80	756.9	29.83	757.7	35.9	2.2	69	sw.	14	6.3	.....	4 cs	0	.....	.....	0	0	fair	V. P. Chappel.
Sanford, Florida	30.08	764.0	30.13	765.3	50.0	10.0	89	ne.	1	0.4	.....	0	fg.	.....	.....	inap.	inap.	dense fog	J. B. Marbury
San Francisco, California	29.89	759.2	29.96	761.0	46.9	8.3	89	ne.	3	1.3	.....	0	1 s	.....	sw.	0	0	clear	N. Gorom.
Savannah, Georgia	30.05	763.3	30.15	765.8	44.0	7.0	71	sw	8	3.6	.....	0	1 s	.....	sw.	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.48	672.6	30.34	770 6	19	— 7.2	87	w.	8	3.6	.....	.....	10 k	.....	.....	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.59	751.6	29.84	757.9	49.5	9.7	91	nw.	4	1.8	.....	.....	10 n	.....	nw.	0.41	10.4	light rain	E. N. Meekins.
Sitka, Alaska	30.36	771.1	30.43	772.9	40.2	4.6	78	e	8	3.6	.....	.....	10 n	.....	e.	0.18	4.6	light rain	F. W. Fickett.
Smithville North Carolina	30.06	763.5	30.10	764.5	47.0	8.3	77	w.	11	4.9	.....	3 c	0	w.	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.27	718.0	30.41	772.4	10	—12.2	61	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.39	746.5	30.12	765.0	30.5	— 0.8	82	n.	8	3.6	.....	7 c	0	w.	.....	0	0	fair	T. B. Jennings.
Stockton, Fort, Texas	26.84	681.7	29.98	761 5	41.0	5.0	76	sw.	11	4.9	.....	0	0	.....	.....	0.04	1.0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.35	770.9	.....	.....	30.2	2.3	81	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.28	692.9	30.11	764.8	28	— 2.2	84	calm	.....	.....	0	2 k	4 s	.....	.....	0	0	fair	R. O. Lord.
Toledo, Ohio	29.26	743.2	30.00	762.0	32	0.0	64	w.	9	4.0	.....	.....	10 s	.....	w.	0	0	cloudy	A. Buell.
Unalaska, Alaska	29.08	738.6	29.10	739.1	32	0.0	88	n.	12	5.4	.....	.....	10 n	.....	n.	0.23	5.8	light snow	Samuel Applegate.
Vicksburg, Mississippi	29.70	754.4	29.98	761.5	50.0	10.0	77	e.	10	4.5	.....	.....	10 s	.....	w	0	0	cloudy	C. Dill.
Washington, D. C.	29.78	756.4	29.90	759.4	37.3	2.9	78	s.	2	0.9	.....	2 c	2 s	sw.	sw.	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	25.99	660.1	30.12	765.0	27.5	— 2.5	84	se.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	F. H. Brandenburg.
Wilmington, N. Carolina	30.05	763.3	30.11	764.8	45.2	7.3	58	sw.	6	2.7	.....	2c;cs	0	w.	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	28.87	733.3	30.29	769.4	12.8	—10.7	81	ne.	7	3.1	.....	10 k	0	nw.	.....	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.75	755.6	29.90	759.4	50.1	10.1	81	e.	2	0.9	.....	0	9 s	.....	sw.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.56	750.8	29.58	751.3	26.4	— 3.1	84	ne.	25	11.2	.....	.....	10 n	.....	.....	0	0	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	.....	n.	.....	.....	1	0	3 ck	.....	ne.	0.26	6.6	fair	W. H. Jackson.
Bogota, U. S. C.	21.99	558.6	.....	.....	48.2	9.0	80	calm	0	0	.....	0	1 k	.....	ne.	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	29.70	754.4	29.86	758.4	—39	—39.4	100	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.06	763.5	71.0	21.7	83	n.	1	0.4	.....	0	1 s	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.06	763.5	30.06	763 5	78	25.6	80	e.	.....	.....	2	4 c	5 k	e.	e.	0.080	2.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.38	746.2	29.94	760.5	79	20.1	89	s.	.....	.....	1	3 ck	1 ks	calm	s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73	22.8	91	ne.	.....	.....	2	.....	.....	.....	.....	0.10	2.5	clear	Earl Flint.
York Factory, B. A.	30.21	767.3	30.28	769.1	—34.0	—30.7	.....	n.	15	6.7	.....	1 c	1 s	n.	n.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.93	760.2	29.94	760.4	79.9	26.6	82	n.	12.5	5.6	.....	0	4 k	.....	n.	.....	.....	hazy	P. Fasiani.
Naos, Bay of Panama	29.83	757.7	29.90	759.4	73.0	22.8	91	nnw.	.....	.....	4	0	1 k	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
S. S. Alleghany, Boston, Mass †	29.69	754.1	40	4.4		wsw.			1		10		w.	3 h'r	3 h'r			cloudy.
Schr. Anna A. Holton, N. 37° 04′, W. 68° 31′*†	30.02	762.5	67	19.4		wsw.			6		8		w.	0	0	r'gh	wsw.	overcast.
S.S. Arizona, N. 51° 06′, W. 17° 54′	30.67	779.0	51	10.6		wsw.			3		10		w.	0	0	mod.	wnw.	overcast.
S. S. Alps, N. 32° 29′, W. 74° 09′			73	22.8		w.			3		5		w.	0	0	short		fair.
S.S. Belgenland, N. 50° 00′, W. 9° 48′			50	10.0	93	wnw.			2				nw.	0	0	sm'h		overcast.
S. S. Circassian, N. 44° 58′, W. 60° 34′			25	— 3.9		sw.			4		10		sw.			3	wsw.	raining.
S. S. Caracas, N. 37° 16′ W. 72° 55′*†	29.91	759.7	58	14.4	76	wsw.			8		5		w.	0	0	r'gh	wsw.	fair.
S. S. City of Augusta, N. 37° 24′, W. 75° 44′						wsw.			4		6		sw.	0	0			fair.
S S. Canada, (Br.) N. 41° 31′, W. 54° 39′ †	30.04	763.0	49	9.4		var.			0–1		8			hail	hail	g'ntle	var.	cloudy.
Bk. Diamant, N. 41° 31′, W. 60° 18′	29.85	758.2	54.9	12.7	72	wsw.			6		8		w.			4	wsw.	cloudy.
S. S. Dorian, N 32° 59′, W. 46° 30′	29.97	761.2	62	16.7		nw.			7		10		nw.	3 h'r	3 h'r	mod.	nw.	cloudy.
S. S. Denmark, N. 49° 43′, W. 21° 05′ †	30.65	778.5	54	12.2	100	wsw.			4		7		wsw.	0	0	sli't	w.	fair.
S S. Daniel Steinmann, N. 50° 44′, W. 20° 38′†	30.57	776.5	56	13.3		s.			3		0			0	0	light	sw.	hazy.
S. S. France, N. 43° 40′, W. 56° 53′*†	29.72	755.0				ssw.			5		7		sw.	light	light	large	sw.	fair.
Bg. Gipsy Queen, N. 28° 46′ W. 79° 00′*†	30.20	767.1				sw.			4					0	0	sm'h		fair.
S. S. Lord Gough, N. 45° 33′, W. 50° 26′*	29.83	757.7	34	1.1		nnw.			6		10		nnw.	7 h'r	7 h'r	high	w.	cloudy.
S S. Landaff City, N. 51° 08′, W. 13° 14′*†	30.60	777.2	50	10.0		w.			3		7		wnw.	0	0	mod.		cloudy.
S. S. Lessing, N. 48° 53′ W. 32° 42′	30.11	764.8	60	15.6		s.			4		10		wsw.	0	0	mod.	sw.	misty.
S. S. Labrador, N 49° 51′, W. 18° 40′ *†	30.73	780.5	53.6	12.0		w.			2		3		w.			sm'h	w.	clear.
Bg. L. F. Munson, Shelburne, N. S *†	29.50	749.3				sw.			5		10		sw.	8 h'r	8 h'r			stormy.
S. S. Main, N. 49° 45′, W. 27° 37′	30.49	774 4	55.4	13.0		s.			3–4		5		s.	0	0	sm'h	s.	cloudy.
S. S. Mentmore, N. 37° 50′, W. 74° 27′						wnw.			7		5		w.	0	0	h'vy	w.	fair.
S. S. Neckar, N. 41° 13′, W. 63° 52′	29.75	755.6	52.5	11.4	83	sw.			2		6		sw.	sh'rs	sh'rs	r'gh	wsw.	fair.
Schr. Maggie Abbott, N. 28° 44′, W. 74° 20′ *†	30.15	765.8				ese.			2		0			0	0	cross		clear.
Bk. Matthias, N. 34° 05′, W. 61° 04′ *†	30.18	766.6	63.0	17.2		w.			3		10		wnw.	0	0	4	nw.	overcast.
S. S. New York, N. 25° 30′, W. 80° 00′ *†	30.16	766.1	76	24.4		se.			5		3		se.			sm'h		clear
S. S. Nova Scotian, Halifax, N. S			36	2.2		sw.			4		8		sw.					fair.
S. S. Nederland, N. 44° 23′, W. 53° 00′			31	— 0.6	100	wsw.			3				wsw.	6 h'r	6 h'r	mod.	w.	fair.
S. S. Nurnberg, N. 49° 37′, W. 17° 47′	30.62	777.7	53.6	12.0		wnw			1		2		wnw.	0	0	sm'h	nw.	clear.
S. S. Oregon, (Br.) N. 50° 58′, W. 28° 14′	30.36	771.1	50	10.0		ssw.			3		9		ssw.			mod.	var.	covered.
S. S. Picqua, N. 34° 58′, W. 38° 25′ *†	29.90	759.4	61	16.1	94	nw.			2				e	8 h'r	8 h'r		se.	cloudy.
S. S. Republic, N. 44° 30′, W. 48° 19′*†	29.75	755.6	43	6.1		w.			6		10		n.	16 h'r	16 h'r	h'vy	sw	overcast.
S. S. Romano, N. 42° 04′, W. 53° 18′			38	3.3		wsw.			3		6		w.	5 h'r	5 h'r	mod.	w.	hazy.
Bk. Rosina, N 29° 38′, W. 65° 31′	30.24	768.1	71	21.7		calm			0		0			0	0	h'vy	nw.	clear.
S. S. State of Georgia, N. 55° 02′ W. 16° 27′†	30.59	777.0	52	11.1		wsw.			6		8		w.	0	0	mod	w.	cloudy.
S. S. Saller, N. 50° 16′, W. 36° 04′*	30.01	762.2				s.			6		9		w.	0	0	cross	s.	cloudy.
S. S. St. Albans, N. 27° —′, W. 87° —′ *	30.10	764.5	75	23.9		ese.			3		2		wsw.	0	0	sm'h		clear.
S. S. Thingvalla, N. 59° 32′, W. 4° 17′†	30.07	763.8	44.6	7.0		wnw.			6		6		wnw.	6 h'r	6 h'r	h'vy	wnw.	misty.
Schr. Viola Reppard, Cape Elizabeth, Maine			42	5.6		wsw.			4		3		wsw.	0	0	small	sw.	clear.
S. S. Valencia. Curacao, W. I †	30.00	762.0	78	25.6	82	ene.			6		7		ene.	0	0			fair.
S. S. Westphalia, N. 50° 51′, W. 13° 18′			34	1.1	86	nw.			3		3		nw.	0	0	sm'h	nw.	clear.
S. S. Zaandam, N. 49° 38′, W. 6° 20′	30.59	777.0	57.9	14.4	84	wnw			3		10			0	0	mod.		cloudy.
Bk. Ariadne, N. 35° 16′, W. 72° 09′	30.04	763.0	64	17.8		wsw.			6		4		wsw.	0	0	mod.	w.	fair.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I †	30.18	766.6	74	23.3		calm			0		0			0	0			clear
Schr. Arthur Burton, Matanzas, Cuba, W.I†	30.13	765.3				calm			0		fg.			0	0	sm'h		foggy.
U. S. S. Alliance, Port au Prince, Hayti, W.I.			73	22.8	85	se.			2		0			0	0			clear.
S. S. Bothnia, N. 51° 40′, W. 14° 36′	30.59	777.0	56	13.3		sw.			4		10		sw.	0	0	mod.	sw.	overcast.
S. S. British Princess, N. 50° 49′ W. 20° 00′ †	30.63	778.0				s			2		10			0	0	sm'h		misty.
S. S. Chalmette, Algiers, La †	30.02	762.5	51	10.6		ese.			2		2		se.	0	0			clear.
S. S. Dominion, N. 43° 25′ W. 64° 52′ *†	29.56	750.8	41	5.0	96	w.			5		10		w.			mod.	w.	cloudy.
Schr. Ellen Crusoe, Caicos, Bahamas, W.I						e.					0			0	0			clear.
S. S. Gallia, N. 48° 42′, W. 36° 08′	29.99	761.7	59	15.0		s.			6		5		ssw.	0	0	mod.	sw.	hazy.
S. S. Germanic, N. 49° 06′, W. 31° 21′ *†	30.25	768.3	55	12.8	100	sse.			4		5		s.	1 h'r	1 h'r	light	sw.	fair.
S. S. Grecian, Funchal, Madeira	30.31	769.9	66	18.9	73	ese.			3		9		ese.	0	0	high	s.	cloudy.
S. S. Lone Star, N. 27° 36′, W. 87° 14′*†	30.12	765.0	71	21.7		ese.			3		6		se.	0	0	sm'h	se.	hazy.
S. S. Muriel, St. Kitts, W. I	30.00	762.0	78	25.6		e.			3		0			0	0	sm'h		clear.
S. S. Orinoco, Bermuda, Atlantic			66	18.9		sw.			3		2		sw.	0	0			clear.
Bk. Saga, N. 24° 09′, W. 56° 30′ *†..	30.16	766.0	76	24.4		e.			0–1		3		nw.	0	0	h'vy		clear.
S. Storm King, N. 35° 03′, W. 38° 07′						n.			1		2		n.	2 h'r	2 h'r	high	ene	clear.
S. S. State of Nebraska, N. 55° 06′, W. 12° 35′*†	30.54	775.7	54	12.2		wsw.			4		8		w.	1 h'r	1 h'r	sm'h		hazy.
S. S. Samaria, N. 50° 55′ W. 15° 45′	30.66	778.7	53	11.7		sw.			2		3		sw.	0	0	sm'h		clear.
S. S. Salerno, Hull, Eng †	30.25	768.3	42	5.6		w.			2		8		w.	0	0			hazy.
S. S. St. Laurent, N. 49° 30′, W. 0° 00′			50.9	10.5		wnw.			1		9		nw.	0	0			covered.
U. S. S. Swatara, Port au Prince, Hayti, W.I*	30.09	764.3	76	24.4	69	e.			1		2		e.			sm'h		clear.
U. S. S. Tennessee, Port au Prince, Hayti, W. I	30.08	764 0	74	23.3	72	se.	4	1.8			2		calm	0	0			clear.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I.	30.01	762.2	75	23.9	76	ne.			2		5							fair.
S. S. Wyoming, N. 49° 04′. W. 36° 24′	30.02	762.5	53	11.7		sse.			5		8		sse.	0	0	long	ssw.	cloudy.
S. S. Westernland, N. 49° 25′, W. 7° 55′	30.62	777.7	53	11.7		nw.			1		*10		nw.	0	0	light	nnw.	overcast.
U. S. Navy Yard, Portsmouth, N.H			35	1.7	70	sw.	12	5.4			10		nw.	0	0			cloudy.
U. S. S. Kearsarge, Genoa, Italy	30.19	766.8	53	11.7	48	nw.			1		0							clear.
U. S. S. Lancaster, Villefranche, France	30.24	768 1	54	12.2	100	calm			0		0			0	0	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	29.72	754.9	36	2.2	80	sw.			3		8		sw.			sm'h		fair.
U. S. S. Quinnebaug, Leghorn, Italy	30.19	766.8	51	10.6	52	ne.			1		0					sm'h		clear.
U S. S. Shenandoah, N. 28° 17′, W. 27° 28′*	30.07	763.8	70	21.1	85	s.			4		5					sm'h		fair.
U. S. S. Trenton, Marseille, France	30.30	769.6	49	9.4	64	n.			2		8		n			sm'h		fair.
H. M. S. Alexandra, Malta, Mediterranean	29.87	758.7	48	8.9	63	nnw.			4		7	nnw.						d. clouds.
H. M. S. Alecto, N. 6° 20′, E. 2° 33′	29.91	759.7	85	29.4		ne.			2							3	ssw.	misty.
H. M. S. Comus, N. 11° 30′, W. 22° 40′	30.04	763.0	76	24.4	82	ne.			4		1					4	nne.	misty
H. M. Dockyard, Bermuda, Atlantic	30.18	766.6	64	17.8	62	wnw.			4		4	wsw.						d. clouds.
H. M. S. Minotaur, Gibraltar, Mediterranean	30.37	771.4	61	16.1	77	ssw.			3		7	ese.						d. clouds.
H. P. M. S. Douro, Fernando Po, W. Africa	29.94	760.5	84.4	29.1	84	nnw.			2		7		nw.	0	0	1	nw.	d. clouds.
S. S. Ohio, (Am.) N 48° 45′, W. 35° 50′			53	11.7	93	s.			3		10		ssw.	0	0	mod.	wsw.	cloudy.
S. S. Pennsylvania, N. 40° 48′. W. 65° 40′			35	1.7	90	sw.			7		9		wsw.	0	0	h'vy	sw.	cloudy.
S. S. Polynesian, N. 54° 23′, W. 26° 01′	30.35	770.9	48	8.9		sw.			4		10		n.	0	0	r'gh	w.	overcast.
S. S. Scandinavian, N. 52° 18′, W. 31° 08′	30.23	767.8	49	9.4		s.			2		10		s.	3 h'r	3 h'r	mod.	cross	misty.
S. S. Carroll, Halifax, N. S						ssw.			5		10		ssw.	rain	rain			raining.
S. S. Wisconsin, N. 44° 20′, W. 55° 50′			32	0.0		ssw.			3		6		w.	6 h'r	6 h'r	mod.	wsw.	cloudy.
S. S. Bohemia, Hamburg, Germany						sw.			5		8			12 h'r	12 h'r			rainy.
S. S. Archimedes, (Br.) N. 39° 05′ W. 55° 41′	30.01	762.2				nnw.			2–3		3		ne.	2 h'r	2 h'r	mod.	var.	fair.
S. S. Hevelius, N. 52° 30′, W. 5° 15′*†	30.59	777.0	42	5.6		wnw.			5		9		w.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Teniers, N. 35° 42′, W. 14° 40′	30.39	771.9	52.5	16.9	81	nne.			2	c	4 K	sse.		0	0	long	s.	d. clouds.
S. S. Archimede, (It.) N. 37° 45′, W. 0° 14′			66	18.9		ne.			1		1		ne.	0	0	sm'h		clear.
S. S. Texas, N. 34° 19, W. 31° 14′*†	29.86	758.4	65	18.3	78	s.			3		3		s.	2 h'r	2 h'r	sm'h	e.	clear.
S. S. Erin, London, Eng	30.44	773.2	48	8.9		w.			2		8		w.	0	0			fine.
S. S. America, N. 40° —′, W. 57° —′*	29.99	761.7	45	7.2	76	s.			1		5			0	0	sm'h	nw.	fair.
S. S. Habsburg, N. 49° 32′, W. 15° 41′	30.74	780.8				calm			0		0			0	0	sm'h		clear.
S. S. Strassburg, St. Vincent, Cape Verd Ids.	30.05	763.3	74	23.3	70	ne.			5		6		ne.			4	ne.	hazy.
S. S. Rhynland, Jersey City, N.J.	29.96	761.0	39	3.9	82	sw.			2		0			0	0			clear.
S. S. Switzerland, N. 42° 20′ W. 62° 12′ *†	29.63	752.7				ssw.			3		5		w	4 h'r	4 h'r	light	w.	threatening
S. S. Waesland, N. 46° 04′, W. 45° 18′	29.71	754.6	38	3 3		wnw.			6		10		nw.	4 h'r	4 h'r	chop	irreg.	cloudy.
S. S. W. A. Scholten, N. 48° 41′, W. 42° 38′			31.5	— 0.3	100	wsw.			7		8		wsw.	6 h'r	6 h'r	6	wsw.	snowing.
S. S. State of Nevada, N. 45° 22′, W. 52° 26′			32	0.0		var.			2		8		wnw.	snow	snow	mod.	w.	cloudy.
S. S. Saxon, N. 39° 00′, W. 74° 39′†	29.79	756.7	40	4.4		sw.			2		7					sm'h		fair.
U. S. Celtic, off Queenstown, Ireland *†	30.65	778.5	54	12.2		w.			2		10		w.	0	0	sm'h		cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Marengo, N. 44° 51′, W. 37° 47′	.....	.....	56	13.3	.....	se.	.....	.....	6	.....	5	.....	se.	1 h'r	1 h'r	mod.	se.	hazy.
Bg. Alcira, N. 28° 42′, W. 66° 00′	30.20	767.1	68	20.0	.....	ne.	.....	.....	1	.....	1	.....	ne.	0	0	mod.	n.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.39	771.9	58	14.4	70	e.	.....	.....	3	.....	1	.....	.....	0	0	.....	.....	clear.
Bgt. Achsah, Clementsport, N. S†	29.55	750.6	40	4.4	.....	sw.	.....	.....	4	.....	10	.....	sw.	1 h'r	1 h'r	.....	.....	cloudy.
Bk. Bayonnaise, N. 27° 37′, W. 62° 10′†	30.38	770.9	72.5	22.5	.....	nne.	.....	.....	4	.....	3	.....	ne.	0	0	r'gh	n.	clear.
Bk. Chas. Stewart, N. 7° 00′, W. 29° 30′*†	30.08	764.0	81	27.2	.....	ene.	.....	.....	6	.....	8	.....	ne.	0	0	long	n.	cloudy.
Schr. Clotilde, N. 24° 00′, W. 82° 57′†	30.10	764.5	74	23.3	.....	e	.....	.....	1	.....	10	.....	se.	½ h'r	½ h'r	sm'h	nw.	raining.
Bk. Celestina, N. 35° 57′, W. 8° 00′ *†	30.39	771.9	.....	.....	.....	ene.	.....	.....	2	.....	3	.....	e.	0	0	long	e; n	clear.
Bk. C. S. Bushnell, N. 37° 01′, W. 0° 22′	30.41	772.4	.....	.....	.....	s.	.....	.....	2	.....	1	.....	n.	0	0	sm'h	.....	
S. E. J. Spicer, Liverpool, Eng	30.36	771.1	50	10.0	93	w.	.....	.....	5	.....	10	.....	w.	rain	rain	.....	.....	misty.
S. E. B. Sutton, N. 36° 19′, W. 38° 08′ *†	29.95	760.7	66	18.9	89	wnw.	.....	.....	2	.....	4	.....	wnw.	0	0	mod	var.	showery.
S. Hedwig, N. 36° 08′, W. 4° 00′	30.37	771.4	59.2	15.1	90	e.	.....	.....	3	.....	4	.....	e.	0	0	sm'h	.....	clear.
Bk. Heinrich & Tonio, N. 43° 50′. W. 33° 45′ *†	30.25	768.3	60.5	15.8	85	ese.	.....	.....	5	.....	8	.....	ese.	0	0	mod.	ese.	cloudy.
Bk. Hattie G. McFarland, Ship Island, Miss.	.....	.....	.....	.....	.....	ene.	.....	.....	2	.....	7	.....	ssw.	0	0	.....	.....	threatening.
S. Henry, N. 42° 08′, W. 40° 39′*	29.75	755.6	61.9	16.6	.....	sse.	.....	.....	5-6	4 c	.....	.....	.....	.....	.....	4	s.	hazy.
Bk. Idaho, N. 36° 11′, W. 72 00′*†	30.18	766.6	.....	.....	.....	wsw.	.....	.....	7	.....	2	.....	wsw.	0	0	rg'h	sw.	hazy.
Bg. John Wesley, Havana, Cuba	.....	.....	.....	.....	.....	ne.	.....	.....	3	.....	4	.....	ne.	0	0	.....	.....	fair.
Schr. John L. Thomas, Hobbies Cays, C. A†	29.98	761.5	76	24.4	91	ne.	.....	.....	3	.....	2	.....	e.	½h'r	½h'r	mod.	ne.	fair.
Bg. L. & W. Armstrong, Pointe à Pître, Guadaloupe†	30.00	762.0	.....	.....	.....	e.	.....	.....	1	.....	1	.....	e.	0	0	sm'h	.....	fine.
S. S. Laurel, Egmont Key Light, Fla†	30.16	766.1	63	17.2	.....	ene.	.....	.....	1-2	.....	5	.....	e.	0	0	.....	.....	hazy.
S. S. Madrid, N. 36° 48′, W. 8° 43′†	30.41	772.4	64	17.8	89	ese.	.....	.....	3	.....	2	nne.	.....	0	0	sm'h	.....	fair.
S. S. P. de Satrastegui, Havana, Cuba	30.13	765.3	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. Rising Sun, N. 35° 15′, W. 70° 30′†	30.00	762.0	65	18.3	.....	ssw.	.....	.....	5	.....	6	.....	ssw.	0	0	long	ssw.	
Bk. Rosalie, N. 29° 02′, W. 38° 56′ *†	29.94	760.5	.....	.....	.....	nw.	.....	.....	5	.....	2	.....	nnw.	1½h'r	1½h'r	long	nne.	clear.
S. Salisbury, N. 33° 01′. W. 22° 03′	.....	.....	67.6	19.8	90	sse.	.....	.....	5	.....	10 kn	.....	s.	3½h'r	3½h'r	cross	var.	cloudy.
Bk. Tuck Sing, N. 21° 25′, W 79° 53′*†	30.06	763.5	.....	.....	.....	ne.	.....	.....	4	.....	0	.....	.....	1 h'r	1 h'r	sm'h	.....	clear.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.93	760.2	79	26.1	66	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Pinta, Pernambuco, Brazil	30.06	763.5	79	26.1	74	ese.	.....	.....	3	.....	10	.....	e.	.....	.....	.....	.....	cloudy.
H. M. S. Amethyst, Maldonado Bay, Uruguay	29.97	761.2	70	21.1	72	e.	.....	.....	4	.....	2	sw.	.....	.....	.....	.....	.....	misty.
H. M. S. Boadicea, S. 18° 25′, W. 2° 04′	30.10	764.5	73	22.8	.....	ese.	.....	.....	4	.....	2	ese.	.....	.....	.....	2	ese.	blue sky.
H. M. S. Opal, Elephant Bay, Benguela	29.96	761.0	76	24.4	86	nnw.	.....	.....	1	.....	5	sw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tyne, S. 13° 19′, W. 8° 45′	30.03	762.7	77	25.0	82	ese.	.....	.....	3	.....	8	ese.	.....	.....	.....	2	ese.	d. clouds.
S. S. Sirius, S. 24° 02′, W. 46° 00′	30.11	764.8	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	long	ssw.	clear.
Bg. Daphne, S. 0° 56′, W. 33° 20′*†	29.92	760.0	81	27.2	78	ese.	.....	.....	3	.....	5	.....	var.	4 h'r	4 h'r	sm'h	var.	hazy.
Bk. Horace Scudder, S. 8° 03′. E 8° 46′*†	30.10	764.5	80	26.7	.....	ssw.	.....	.....	2	.....	2	.....	s.	0	0	light	s.	clear.
Bkt. Levanter, S. 7° 38′, W. 34° 30′*	30.04	763.0	82	27.8	.....	ese.	.....	.....	4	.....	2	.....	se.	0	0	long	se.	fair.
S. Parker M. Whitmore, S. 5° 35′, W. 27° 20′*†	29.98	761.5	82	27.8	.....	se.	.....	.....	5	.....	2	.....	se.	0	0	short	se.	clear.
S. St. David, S. 52° 58′, W. 51° 50′ *†	29.61	752.1	49	9.4	85	nw.	.....	.....	3	.....	7	.....	nw.	3 h'r	3 h'r	light	var.	cloudy.
S. David Stewart, Pernambuco, Brazil†	29.86	758.4	88	31.1	.....	se.	.....	.....	4	.....	4	.....	se.	0	0	.....	.....	
Bk. Godeffroy, S. 56° 08′, W. 59° 27′	29.17	740.9	46.2	7.9	91	nnw.	.....	.....	4	.....	5	.....	wnw.	12 h'r	12 h'r	mod.	n.	fair.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.94	760.5	42.5	5.8	66	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	foggy.
U. S. S. Adams, Sitka, Alaska	.....	.....	35	1.7	70	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	raining.
U. S. S. Alert, N. 15° 48′, W. 171° 36′	29.90	759.4	73	22.8	90	nnw.	.....	.....	3	.....	10	.....	n.	.....	.....	sm'h	wsw.	cloudy.
U. S. S. Essex, Canton, China	30.14	765.5	72	22.2	80	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	.....	fair.
U. S. S. Juniata, Shanghai, China	30.29	771.9	44	6.7	84	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Monocacy, Shanghai, China	30.37	771 4	47	8.3	77	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Ranger, La Union, Honduras	29.96	761.0	78	25.6	65	ene.	.....	.....	2	.....	2	.....	.....	0	0	.....	.....	fair
U. S. S. Richmond, Shanghai, China	30.39	771.9	47	8.3	85	nne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	hazy.
H. M. S. Audacious, Hong Kong, China	30.12	765.0	67	19.4	79	ese.	.....	.....	1	.....	4	e.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Cleopatra, off Amoy, China	30.12	765.0	64	17.8	83	ne.	.....	.....	3	.....	8	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Champion, Woosung, China	30.44	773.2	50	10.0	100	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. P. M. S. Tamega, Macao China	30.18	766.6	68.9	20.5	86	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	.....	blue sky.
S. S. Newbern, Cape St. Lucas, Mexico*†	30.00	762.0	56	13.3	75	nw.	.....	.....	2	.....	0	.....	.....	0	0	small	sw.	clear.
S. S. Oceanic, N. 35° 25′, E. 139° 30′	30.02	762.5	50	10.0	93	calm	.....	.....	0	.....	3	.....	wnw.	0	0	4	w	clear.
S. S. Oregon, San Francisco, Cal†	29.96	761.0	45	7.2	84	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Alameda, San Francisco, Cal	.....	.....	44	6.7	92	s.	.....	.....	1	.....	1	.....	ssw	0	0	.....	.....	clear.
S. S. Ancon, San Francisco, Cal†	29.92	760.0	47	8.3	85	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Chester, San Francisco, Cal†	29.96	761.0	46	7.8	84	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	
S. S. Orizaba, N. 33° 43′, W. 118° 15′†	29.99	761.7	59	15.0	88	sw.	.....	.....	3	.....	.....	.....	sw.	0	0	mod.	sw.	covered.
S. S. Queen of the Pacific, San Francisco, Cal.†	29.96	761.0	47	8.3	92	calm	.....	.....	0	.....	0	.....	.....	0	0	long	.....	clear.
S. S. State of California, Astoria Oregon†	30.43	772 9	32	0.0	90	e.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Pekin, N. 42° 10′, E. 163° 11′	.....	.....	38	3.3	63	w.	.....	.....	6	.....	5	.....	w.	.....	.....	r'gh	w.	fair.
S. S. Colima, N. 22° 55′, W. 109° 15′†	29.99	761.7	66	18.9	74	nw.	.....	.....	4	.....	8	.....	nw	0.55	14.0	small	nw.	cloudy.
S. S. Granada, San Jose, Guatemala†	29.86	758.4	74	23.3	81	ne.	.....	.....	1	.....	0	.....	.....	0	0	light	.....	clear.
Bk. Alpheus Marshal, N. 2° 49′, E. 167° 59′ *†	29.68	753.9	82	27.8	83	nne.	.....	.....	5	.....	5	.....	ne.	5 h'r	5 h'r	mod.	ne.	fair.
S. S. Benalder, N. 5° —′, E. 166° 15′*	29.94	760.5	78	25.6	82	ne.	.....	.....	4-5	.....	6	.....	nne.	sh'rs	sh'rs	mod.	nne.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 22° 08′, W. 80° 18′	29.94	760.5	70	21.1	95	ese.	.....	.....	3	.....	10	.....	.....	0	0	sm'h	s.	cloudy.
U. S. S. Iroquois, Talcahuano, Chili	29.95	760.7	60	15.6	94	ssw.	.....	.....	2	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Lackawanna, S. 22° 57′, W. 76° 18′	29.94	760.5	69	20.6	80	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	s.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.02	762.5	67	19.4	84	se.	.....	.....	2	.....	2	.....	se.	.....	.....	mod.	w.	clear.
U. S. S. Wachusetts, Callao, Peru *†	30.10	764.5	65	18.9	94	se.	.....	.....	1	.....	9	.....	s.	.....	.....	sm'h	.....	fair.
H. M. S. Diamond, S. 40° 42′, E. 149° 23′	30.38	771.6	61	16.1	77	w.	.....	.....	6	.....	9	w.	.....	.....	.....	8	w.	squally
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.86	758.4	59	15.0	82	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.82	757.4	64	17.8	.....	nne.	.....	.....	.	.....	.....	.....	.....	.....	.....	2	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.36	745.7	62	16.7	89	w.	.....	.....	1-3	.....	10	w.	.....	.....	.....	.....	.....	squally.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.29	744.0	51.2	10.7	86	calm	.....	.....	0	.....	9	calm	.....	.....	.....	.....	.....	d. clouds.
S. S. Australia, S. 34° 13′, E. 170 04′	30.06	763.5	64	17.8	.....	wsw.	.....	.....	6	.....	6	.....	sw.	0	0	r'gh	sw.	fair.
S. S. City of Sydney, S. 9° 44′, W. 169° 03′*†	29.80	756.9	83	28.3	79	nne.	.....	.....	2	.....	2 k	.....	ne.	.....	.....	light	nw.	clear.
S. S. George S. Homer, S. 29° 30′, W. 122° 57′*†	30.15	765.8	.....	.....	.....	w.	.....	.....	3	.....	6	.....	w.	0	0	r'gh	ssw.	cloudy.
S. S. Ismir, S. 20° 02′, W. 72° 10′*	30.20	767.1	.....	.....	.....	calm	.....	.....	0	.....	9	.....	calm	0	0	sm'h	n.	cloudy.
S. S. St. Francis, S. 31° 00′, W. 82° 45′*†	30.28	769.1	72	22.2	62	s.	.....	.....	2	.....	1	.....	sse.	0	0	long	sw.	clear.
S. S. Grecian, S. 26° 29′, W. 128° 30′ †	30.08	764 0	77	25.0	77	nnw.	.....	.....	2	.....	2	.....	nnw.	0	0	long	s.	clear.
S. Henry Falling, S. 30° 37′, W. 126° 46′ *†	29.92	760.0	75	23.9	95	wnw.	.....	.....	4	.....	2	.....	w.	0	0	sm'h	nw.	clear.
H. M. S. Espiegle, S. 45° 49′, E. 170° 39′	28.92	734.6	64	17.8	32	n.	.....	.....	5	.....	9	.....	.....	.....	.....	.....	.....	squally.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Hellville, Nossi Be Island, Africa	29.84	757.9	84	28.9	83	wsw.	9	4.0	.....	.....	5	.....	wsw.	0	0	sm'h	.....	fair
U. S. S. Pensacola, S. 17° 40′, E. 57° 12′*	29.87	758.7	75	23.9	95	e.	.....	.....	1	.....	10	.....	e.	hv'y	hv'y	long	e.	cloudy.
H. M. S. Coquette, N. 15° 36′. E. 39° 21′	29.95	760.7	85	29.4	79	e.	.....	.....	1	.....	2	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.96	761.0	79	26.1	86	e.	.....	.....	3	.....	5	se.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Orontes, S. 3° 48′. E. 46° 13′	29.96	761.0	80	26.7	100	nne.	.....	.....	4	.....	5	s.	.....	.....	.....	2	n.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.94	760.5	80	26.7	82	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Woodlark, N. 27° 00′, E 34° 30	29.88	758.9	78	25.6	86	sse.	.....	.....	5	.....	6	sse.	.....	.....	.....	2	se.	misty.
S. S. Galatia, N. 8° 23′, E. 71° 36′ †	29.97	761 2	80	26.7	96	nne.	.....	.....	3	.....	0	.....	.....	0	0	long	ne.	clear.
S. S. Port Phillip, N. 3° 20′, E. 63° 36′*	29.92	760.0	81	27.2	.....	ne.	.....	.....	4	.....	.....	.....	.....	.....	.....	mod.	ne.	clear.
S. S. Radnorshire, Jarra Island, Strait of Malacca*†	29.93	760.2	.....	.....	.....	ene.	.....	.....	3	.....	2?	.....	ene.	0	0	mod.	ene.	cloudy.?
S. S. Coromdelet, S. 13° 03′, E. 119° 15′*†	29.46	748.3	.....	.....	.....	w.	.....	.....	2	.....	9	.....	w.	6 h'r	6 h'r	mod.	wnw.	cloudy.
S. S. Lepanto, Bombay, India	30.01	762.2	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	clear.
H. M. S. Magpie, N. 8° 21′, E. 97° 43′	29.92	760.0	81.5	27.5	79	ne.	.....	.....	1	.....	7	.....	.....	.....	.....	2	ne.	d. clouds.

International Chart I. January 14, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 15 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.37	771.3	61.9	16.6	75	w.			1		0			0	0	clear	Roziere.
Algiers			30.39	771.8	53.6	12.0	43	wnw.			2		2			0.051	1.3	fair	Aubert.
La Calle			30.21	767.2	57.6	14.2	65	nw.			5		4			0	0	cloudy	Fonfrede.
Tunis			30.09	764.3	56.5	13.6	58	nnw.			5		3			0	0	pretty fair	Delord.
Tebessa					48.9	9.4	82	e.			3		4			0	0	cloudy	Hans.
Geriville					45.3	7.4	66	ne.			2		0			0	0	clear	Forfert.
Laghouat			30.39	772.0	51.4	10.8	72	calm			0		1			0	0	very fair	Abraham.
Biskra			30.30	769.5	55.8	13.2	57	n.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.99	761.7	64.5	18.1	62	ssw.	11	4.9			8 k			0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.48	748.8	29.67	753.6	51	10.6	93	ssw.			3		7		ssw.	0.14	3.6	cloudy	Com. I. Short, R.N.
Melbourne, Victoria	29.78	756.4	29.87	758.7	63.5	17.5	66	wsw.	15	6.7			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.45	748.0	30.03	762.7	30.6	— 0.8	65	nw.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.06	738.2	29.85	758.3	36.1	2.3	84	nw.	4.3	1.9			10			0.276	7.0		Dr. Wierzbiski
Eperies	28.98	736.1	29.91	759.8			91	calm			0		10			0.138	3.5		Julius Mikolik.
Gratz	28.76	730.4	30.04	763.0	41.5	5.3	50	n.			4		0			0	0		Andreas Rospini.
Hermannstadt	28.46	722.9	29.97	761.3	27.3	— 2.6	98	sse.			4		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.78	731.0	30.18	766.5	35.8	2.1	91	wnw.			3		10			0.240	6.1	rain & snow	The Staff.
Lemberg	28.76	730.5	29.78	756.5	31.3	— 0.4	87	sw.			6		10			0.102	2.6		Dr. T. Stanecki.
Pola	29.94	760.5	30.06	763.4	43.5	6.4	57	nw.			2		5			0	0		I. R. Hydrographic Office.
Szathmar	29.40	746.7	29.89	759.3	25.7	— 3.5	89	se.			5		10			0.236	6.0		Joseph Midlinszky, S. J
Szegedin	29.63	752.5	29.92	759.9	33.6	0.9	100	w.			1		10			0.142	3.6	snowing	Karl Stancel.
Trieste	30.01	752.2	30.11	764.7	43.9	6.6	53	calm			0		6			0	0		Royal Academy.
Vienna	29.33	744.9	30.06	763.6	40.6	4.8	68	wnw.			4		9			0.323	8.2		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.72	729.6	30.15	765.0	40.1	4.5	95	nw.			1		3			0.091	2.3		
Brussels	30.30	769.5	30.50	774.8	46.6	8.1	88	wnw.			3		10		nnw.	0.083	2.1		
Furnes	30.50	774.7	30.52	775.2	45.7	7.6	92	nw.			1		10			0.004	0.1		
Maeseyck	30.31	769.8	30.43	773.0	47.7	8.7	95	nnw.			1		8			0.059	1.5		
British.																			
Aberdeen	30.31	769.9	30.41	772.4	52.6	11.4	64	w.	16	7.2			5			0	0	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			30.60	777.2	45.9	7.7	92	w.	3	1.3			10					overcast	John Hartnup.
Bolton, Sharples	30.03	762.7	30.58	776.7	44.4	6.9	94	wnw.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	30.12	765.0	30.52	775.2	48.1	8.9	76	nw.			2		4			0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.04	763.0	30.08	764.0	80	26.7	78	ne.			2		2					blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	30.46	773.7	30.58	776.7	46.0	7.8	92	nw.			0.4		8					overcast	John McLaren.
Chatham, School M. E.	30.38	771.6	30.86	776.2	40.1	9.5	87	nw.			1		9					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.43	772.9	30.67	779.0	49.3	9.6	91	nnw.			1		10					overcast	The Staff.
Fort Napier, Natal	27.52	609.0	29.83	757.7	73.0	22.8	85	ne.			1		10					overcast	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	88	31.1	66	sw.			1		2					d. clouds	J. W. Smith.
Galway, Queen's College	30.59	777.0	30.63	778.0	47	8.3	92	sw.			1		9			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.30	769.6	30.35	770.9	60.0	15.6	89	e.			4		5					d. clouds	Sgt. F. Norris, A.H.C.
Greenwich, Royal Obs'y	30.39	771.9	30.57	776.5	48.8	9.3	87	wnw.			2		10					foggy	The Staff.
Guernsey	30.33	770.4	30.64	778.2	48.3	9.1	83	nnw.			1		8					d. clouds	A. Coltenette, F.R.M.S.
Kew, Observatory	30.54	775.7	30.58	776.7	49.4	9.7	82	w.	5	2.2			9					d. clouds	The Staff.
Leicester, Museum	30.29	769.4	30.55	776.0	48.8	9.3	87	nw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.95	760.7	30.03	762.7	53.4	11.9	53	nw.			2		7			0.01	0.3	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.17	766.3	70.0	21.1	100	se.			2		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.15	770.9	30.58	776.7	49.7	9.8	86	nw.			2		9					overcast	The Staff.
Plymouth	30.56	776.2	30.64	778.2	48.7	9.3	94	calm			0		10					misty	John Merrifield.
Sandwick Manse, Orkneys	30.17	766.3	30.27	768.8	48	8.9	92						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.81	757.2	29.88	758.9	40.0	4.4	80	ne.			2		10					raining	W. H. Lyne.
Sheffield	30.26	768.6	30.55	776.0	48.0	8.9	79	wsw.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.53	775.4	30.56	776.2	46.4	8.0	96	sw.			2		7			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.58	776.7	45.8	7.7	86	w.	19	8.5			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					49.7	9.8	87	nw.			1.0		10					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.66	778.7	30.69	779.5	47.6	8.7	91	n.	3	1.3			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.68	753.9	30.07	763.8	50.7	10.4	51	nw.	9.3	4.2		0	4 n		nw.	0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.02	762.5	30.07	763.8	— 2.0	—18.9		sw.	2.5	1.1		6 c	0	s.		0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.92	760.0	29.97	761.2	— 2	—18.9	87	w.	12	5.4		0	0			0.050	1.3	clear	H. J. Cundall, C. E
Chatham, N. B*	29.09	761.7	30.06	763.5	—12	—24.4	100	w.	6	2.7		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.08	764.0	30.32	770.1	—31.3	—35.2	100	nw.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.01	762.2	30.06	763.5	—13.0	—25.0		w.			3	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.16	766.1	30.18	766.6	—15	—26.1	81	nw.	12	5.4		8 c	2 s	calm	calm	0.03	0.8	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.59	751.6	30.61	777.5	—31	—35.0	100	nw.	5	2.2			10 n			0	0	hazy	James Stewart.
Fredericton, N. B.	30.08	764.0	30.15	765.8	— 8.9	—22.7	100	nw.	9.0	4.0		0	0			0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	30.07	763.8	30.13	765.3	5	—15.0	83	n.	16	7.2		0	8 ks		n.	0	0	fair	J. Chipman Seeley
Granton, Ontario	29.12	739.6	30.36	771.1	0.8	—17.3	94	ne	2	0.9			10 n			inap.	inap.	overcast	Jas. Grant.
Halifax, N. S*	29.90	759.4	30.04	763.0	9	—12.8	87	w.	9	4.0		10 cs	0			0.056	1.4	cloudy	A. Allison.
Hamilton, Ontario	29.81	757.2	30.27	768.8	0.7	—17.4	85	ne.			1	10 ck	0		ne.	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario	29.95	760.7	30.34	770.6	—13	—25.0	41	ne.	5	2.2		5 c	0		ne.	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.78	756.4	29.82	757.4	10.0	—12.2	68	nw.	1	0.4		4 k	0		w.	0	0	d. clouds	O. H. Rigby.
London, Ontario	29.35	745.5	30.36	771.1	3.5	—15.8	95	calm			0		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.86	707.6	30.42	772.7	— 1	—18.3	87	w.	0	0		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T.	28.29	718.6	30.62	777.7	—30	—34.4	100	nw.	8	3.6		hz	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	30.00	764.3	30.33	770.4	—16	—26.7	100	n.	3	1.3		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.08	764.0	30.35	770.9	—21.7	—29.8	100	nw.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.57	751.1	30.11	772.4	—27	—32.8	80	s.	0	0		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.54	750.3	30.41	772.4	—12.4	—24.7	80	nw.			1	5 c	0		w.	0	0	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.61	752.1	30.43	772.9	—14	—25.6	80	s.	3	1.3		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.53	750.0	30.31	769.9	1	—17.2	100	n	13	5.8			10 n			0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.57	751.1	30.29	769.4	5	—15.0	83	ne.	6	2.7			10 n		ne.	0	0	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.87	707.9	30.47	773.9	—10	—23.3		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.83	757.7	30.25	768.3	—16	—26.7	90	calm	0	0		0	0			0.10	2.5	clear	Capt. Asne, R. N.
Rockliffe, Ontario	29.83	757.7	30.40	772.1	—37	—38.3	100	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B.	30.08	764.0	30.14	765.5	— 2	—18.9	93	n.	3	1.3		0	0			0	0	clear	
St. John, N. B	29.96	761.0	30.12	765.0	— 2.0	—18.9	67	n.	12	5.4		0	0			0.250	6.3	blue sky	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			29.69	754.0	19.4	— 7.0		nw.			3								The Commandant.
Saugeen, Ontario*	29.53	750.0	30.34	770.6	— 2	—18.9	100	ne.	15	6.7			10 ks			0.05	1.3	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.93	734.8	30.39	771.9	— 3.5	—19.7	86	calm	0	0			10 n			0.067	1.7	d. clouds	W. Mc Bride, M. A.
Sydney, C. B*	29.74	755.4	29.80	756.9	8	—13.3	87	w.	22	9.8		2 c	2 k			0.25	6.3	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.93	760.2	30.38	771.6	— 8	—22.2	95	n.	9	4.0			10 s		nw.	0.02	0.5	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.16	740.7	30.36	771.1	— 1.3	—18.5	87	n.	2	0.9			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.03	762.7	30.10	764.5	14	—10.0	67	n.	6	2.7			10 k		n.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.95	760.7	29.98	761.5	72.0	22.2	90	sw.					10 n			0.020	0.5	overcast	I. Garfelt.
Cape Town, The Castle	29.99	761.7			70.0	21.1	91	n.				0	3 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.86	707.6			75	23.9	45									0	0		J. F. Eustace
Chilian.																			
Coquimbo	29.83	757.7	29.91	759.7	64.0	17.8	90	n.			3	10	0					cloudy	Samuel Redolez.
Iquique	29.85	758.2	29.88	758.9	72.1	22.3	77	sw.			2							foggy	Rafael Moreno.
Niebla	29.54	750.2	29.64	752.9	61.9	16.6	83	e.			1	2 c	0	w.		0	0	fair	Federico Köhling.
Punta Caldera	29.80	757.0	29.89	759.2	69.3	20.7	76	sw.			1	7 ck	0	sw.				fair	Manuel Tobar.
Punta Corona	29.85	758.2	30.04	762.9				w.			4	0	0			0	0	clear	Francisco Alvarado.
Valparaiso	29.67	753.6	29.81	757.1	63.5	17.5	72	sw.				0	0					clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.42	772.6	30.44	773.2	38.8	3.8	72	e.	9.4	4.2		9 ck		w.		0	0		M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.02	762.4	30.06	763.6	40.3	4.6	73	nnw.	11	5			0						Oversergent Fischer.
Fanöe	30.17	766.3	30.19	766.8	42.4	5.8	96	nw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.59	751.5	29.63	752.6	9.3	—12.6		ne.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.65	753.0	29.69	754.1	30.2	— 1.0	86	calm			0		8						A. O. Thoriacius.
Thorshavn	29.96	761.0	29.98	761.6	49.3	9.6	86	w.	30.2	13.5			10						Overloerer Bergh.
Vestervig	30.03	762.7	30.12	765.1	42.4	5.8	99	w.			6		10						Loerer Oesterrool.
Egyptian.																			
Cairo	29.95	760.8			60.8	16		nw.	6.9	3.1		0	0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.98	761.5	30.66	778.8	45.0	7.2	77	nnw.			1			nw.	nw.	0	0	misty	M. Labroue, Director.
Alençon, Normal School	30.09	764.3	30.64	778.3	48.2	9	89	n.			1		10 k		s.	0	0	covered	M. Vieot, Director.
Arras, Normal School			30.47	774.0	48.7	9.3	84	nw.			1		5		n.	0.012	0.3	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.15	765.9	30.23	767.9	47.8	8.8	63	nnw.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.95	760.7	30.53	775.4	46.0	7.8	79	w.			1		10		n.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.32	770.1	30.60	777.1	46.6	8.1	83	nnw.			1		5		nnw.	0	0	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.52	749.8	30.45	773.3	42.4	5.8	94	s.			1		10 n			0.150	3.8	raining	M. Gobin, Director.
Bordeaux, Observatory	30.32	770.2	30.60	777.1	46.9	8.3	78	nw.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.98	761.5	30.55	776.0	46.4	8	91	n.			1		n		n.	0.024	0.6		M. Sauvageot, Director.
Brest, Naval Observatory	30.39	772.0	30.63	778.1	51.4	10.8	90	ne.			1		8		ne.	0.020	0.5		M. de Kermarée, Dir.
Caen, Normal School	30.32	770.1	30.56	776.1	51.1	10.6	100	ne.			1		0			0	0	clear	M. Berson, Director
Châlons-sur-Marne, N.Sch	30.17	766.4	30.50	774.8	47.8	8.8	79	w.			1		5		n.	0.043	1.1	cloudy	M. Jadot, Director.
Charleville, Normal School	29.98	761.6	30.50	774.8	44.2	6.8	77	n.			2					0.091	2.3		M. Noël, Director.
Clermont-Ferrand Obs'y	29.09	738.9	30.50	774.7	43.5	6.4	85	n.			2		10		n.	0.024	0.6		M. Allnard, Director.
Cluny, Normal School	29.63	752.5	30.51	774.9	42.8	6	91	w.			1		10	nw.	nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.63	752.5	30.50	774.8	43.9	6.6	80	nw.			1		10 n	nw.	nw.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	29.96	760.9	30.19	766.9	42.8	6	53	w.			1	1 c				0	0		M. Jarach, Director.
Gréasque, du Rhone	28.96	735.6	30.10	764.6	50.5	10.3	42	nw.			2		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.58	751.2	30.37	771.3	45.3	7.4	64	nnw.			4		kn		n.	0	0		M. Ablard, Director.
Guéret, Normal School	28.93	734.7	30.58	776.7	41.0	5	100	nw.			1				nw.	0	0	foggy	M. Delorme, Dir.
Lamballe, Normal School																			M. Polipre, Director
Lescar, Normal School	29.95	760.8	30.55	776.0	47.3	8.5	64	ne.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.48	774.1	30.58	776.7	50.7	10.4	80	nnw.			1					0	0	misty	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.34	745.2	30.44	773.2	40.8	4.9	89	n.			2		8 n		n.	0.004	0.1	very cloudy	M. André, Director.
Mans, Normal School	30.28	769.2	30.60	777.3	49.1	9.5		n.			4		8		ne.	0	0	very cloudy	M. Richard, Director.
Marseille, Observatory	29.82	757.4	30.09	764.3	51.1	10.6	48	nw.			4-6		1		nw.	0	0		M. Stephan, Director.
Montlouis	25.02	635.5	29.80	758.5	39.6	4.2	65	sw.	20.6	9.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.13	765.2	30.24	768.0	54.7	12.6	63	nnw.			4		2		ssw.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.71	754.7	30.53	775.5	43.9	6.6	91	wsw.			1	ck	n		n.	0	0		M. Hasse, Director.
Nantes, Observatory	30.47	773.8	30.63	777.9	48.2	9.0	95	nnw.			0-2		10			0	0		M. Larocque, Director.
Perpignan, Observatory	30.28	769.1	30.40	772.1	49.5	9.7	47	nw.	26.2	11.7			8		n.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	544.0			24.4	— 4.2		ne.			1		1		e.	0	0	clear	M. Vausseunt, Director.
Privas, Normal School	29.23	742.4	30.33	770.4	45.0	7.2	71	n.			4		n		n.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.41	645.5			29.7	— 1.3	100	n.			3		10			0.039	1.0		M. Allnard.
Rochefort, Naval Obs'y	30.56	776.2	30.59	777.0	48.2	9.0	92	nnw.			1		10			0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.32	770.2	30.54	775.8	47.5	8.6	94	n.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.24	717.4	30.45	773.3	38.7	3.7		w.			1		10		e.	0	0	covered	M. Seger, Director.
Rouen, Normal School	30.54	775.7	30.59	776.9	49.6	9.8	84	n.			1		10		n.	0	0	covered	M. Mouillot, Dir.
St. Lô, Normal School			30.47	774.0	50.2	10.1	86	n.			1		n		n.	0	0		M. Delaplanche, Dir.
Saint Maur, Observatory	30.41	772.3	30.57	776.5	47.1	8.4	81	nnw.			1				nne.	0.068	0.2		M. Renou, Director.
Toulouse, Observatory	29.84	757.8	30.57	776.5	46.4	8.0	69	nw.			2		5	nw.		0	0	cloudy	M. Baillaud, Director.
Tours	30.38	771.7	30.56	776.2	50.4	10.2	84	nw.			1		8	ne.	ne.	0.004	0.1	very cloudy	M. de Tastes.
Versailles, Observatory	30.07	763.7	30.56	776.2	46.8	8.2	83	n.			2		5			0.020	0.5	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.45	773.3	30.60	777.1	48.2	9.0	63	s.	7.8	3.5			4 k		se.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.82	731.9	30.34	770.5	38.1	3.4	79	nw.			4		8	nw.		0.130	3.3		Prof. Jnedt.
Bamberg	29.40	746.7	30.25	768.3	38.7	3.7	73	w.			3		7 k		w.	0.075	1.9	raining	Prof. Dr. Hoh.
Berlin	29.93	760.3	30.08	764.1	41.0	5.0	78	nw.			3		3			0.083	2.1		Meteorological Institute
Breslau	29.42	747.3	29.95	760.7	38.3	3.5	75	nw.			6		6			0.110	2.8		Royal University Obs'y
Carlsruhe	29.95	760.6	30.43	772.8	43.5	6.4	79	nw.			1		9	nw.		0.142	3.6		Albert Senz.
Cassel	29.54	750.2	30.25	768.3	42.4	5.8	75	nw.			6		8	nw.		0.102	2.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.99	761.8	30.37	771.5	44.6	7.0	67	nnw.			2		7			0	0		Physical Society.
Friedrichshafen	28.94	735.0	30.42	772.6	38.8	3.8	88	w.			5		8	wnw.		0.110	2.8		Wilhelm, Chief Tel.
Hamburg	30.12	765.0	30.21	767.3	42.8	6.0	81	nnw.			4		5			0.071	1.8		E. Prefler.
Kiel	30.14	765.6	30.16	766.0	41.9	5.5	85	nw.			2		1			0.024	0.6		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.75	755.7	30.19	766.9	41.0	5.0	78	nw.			3		9	nw.		0.217	5.5		H. Leppig, Asst.
Magdeburg	29.97	761.3	30.17	766.3	42.4	5.8	70	nw.			4		6	nw.		0.051	1.3		Weather Observatory.
Memel	29.62	752.4	29.67	753.6	36.3	2.4	82	nne.			5		10 s						Issermann.
Munich	28.43	722.1	30.31	769.9	36.5	2.5	91	nw.			4		10	w.		0.181	4.6		Central Station.
Neufahrwasser	29.78	756.4	29.80	756.8	37.2	2.9	78	nw.			6		10			0	0		A. Lothes.
Neustadt, Palatinate	29.83	757.7	30.37	771.3	42.6	5.9	83	w.			1		10			0.016	0.4		Dicknether.
Stuttgart	29.41	747.1	30.34	770.6	42.4	5.8	73	nw.			2		8	n.		0.150	3.8		Prof. Dr. Schoder.
Wustrow	30.06	763.5	30.08	764.1	39.4	4.1	82	nw.			4		0			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.49	749.1	29.89	759.3	43.2	6.2		n.			2.0	0	8 k			0.004	0.1	light rain	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.00	762.1	30.06	763.4	70.9	21.6	33	ne.	19.0	8.5			0?					drizzling?	
Deesa	29.46	748.2	29.94	760.4	76.4	24.7	24	ne.	12.0	5.4			10	sw.	sw.	0	0	overcast	
Bombay	29.89	759.2	29.93	760.2	74.7	23.7	68	wnw.	8.0	3.6			9	w.	w.	0	0	d. clouds	
Poona, Yarrowda	28.03	711.9	29.89	759.3	76.3	24.6	44	s.	13.0	5.8			6			0	0	d. clouds	
Belgaum	27.30	694.9	29.92	759.9	72.0	22.2	31	s.	9.0	4.0			5	w.	e.	0	0	d. clouds	
Lahore	29.33	745.0	30.11	764.8	63.4	17.4	70	ne.	2.0	0.9			10			0.03	0.8	overcast	
Roorkee	29.15	740.4	30.09	764.2	64.8	18.2	63	calm	0	0			6	w.		0	0	d. clouds	
Agra	29.42	747.4	30.01	762.3	63.7	17.6	55	e.	4.0	1.8			9		e.	0.09	2.3	d. clouds	
Nagpur	28.92	734.6	29.98	761.5	74.7	23.7	33	se.	3.0	1.3			3	se.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.62	726.9	30.01	762.1	69.9	21.1	41	calm	1.5	0.7			2		s.	0	0	d. clouds	
Lucknow	29.68	753.8	30.07	763.8	67.3	19.6	62	calm	0	0			0			0	0	blue sky	
Allahabad	29.72	754.9	30.05	763.2	66.0	18.9	63	calm	0	0			0			0	0	blue sky	
Patna	29.86	758.5	30.05	763.4	69.5	20.8	54	se.	3.6	1.6			0			0	0	blue sky	
Hazaribagh	27.98	710.6	30.05	763.2	65.5	18.6	43	se.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.95	760.8	30.04	762.9	71.7	22.1	61	ese.					0			0	0	blue sky	
Calcutta, Alipore	30.03	762.6	30.05	763.2	68.5	20.3	56	nne.	0.5	0.2			0			0	0*	blue sky	
Dhubri	29.96	761.0	30.08	764.1	65.7	18.7	61	calm	2.6	1.2			0			0	0	blue sky	
Chittagong	29.96	761.0	30.06	763.4	65.2	18.4	71	wnw.	3.1	1.4			0			0	0	blue sky	
Sibsagar	29.77	756.1	30.13	765.2	57.0	14.4	88	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.55	725.2	30.04	763.1	64.8	18.2	50	sse	5.5	2.5			10		sw.	ese.	0.01	0.3	overcast
Zanzibar	29.85	758.2	29.87	758.7	85.7	29.8	51	ne.	10.0	4.5			0				0	0	blue sky
Bellary	28.44	722.4			77.0	25.0	36	se.	4	1.8		3 ck	2				0	0	d. clouds
Trichinopoly	29.73	755.1			79.7	26.5	45	calm	0	0		2	3				0	0	d. clouds
ITALIAN.																			
Udine	29.66	753.4	30.09	764.2	41.5	5.3	40	calm	0	0			5				0	0	Prof. Giovanni Clodig.
Milan	29.54	750.4	30.08	764.1	41.0	5.0	51	w.	8.1	3.6			2				0	0	Prof. G. V. Schiapparelli
Padua	30.01	762.2	30.12	765.1	36.7	2.6	59	nnw.	0.7	0.3			0				0	0	Prof. Dott. Lorenzoni.
Moncalieri	29.15	740.5	30.10	764.5	42.3	5.7	43	ese.	3.1	1.4			0				0	0	Prof. F. F. Denza.
Genoa	29.90	759.4	30.10	764.4	51.6	10.9	63	calm	0	0			2		s.		0	0	Prof. G. M. Garibaldi.
Pesaro	30.02	762.5	30.07	763.8	38.8	3.8	68	n.	10.5	4.7			10		n.		0	0	Prof. Luigi Guidi.
Florence	29.80	757.0	30.07	763.7	38.3	3.5	60	ne.			2		10				0	0	Prof. Costantino Pittoli
Leghorn	29.94	760.5	30.03	762.7	46.8	8.2	50	ne.	3.8	1.7			6		sw.		0	0	Prof. P. Monte.
Rome	29.87	758.8	30.06	763.4	48.7	9.3	34	n.	8.1	3.6			6				0	0	Prof. P. Tacchini.
Lecce	29.69	754.0	29.95	760.7	46.8	8.2	47	nnw.	3.1	1.4			1				0	0	Prof. C. de Giorgi.
Cosenza	29.13	739.8	30.05	763.3	43.2	6.2	70	wnw.	3.1	1.4			1		s.		0	0	Prof. D. Conti.
Cagliari	29.93	760.1	30.12	765.1	52.0	11.1	66	nnw.			4		10				0	0	Prof. A. Pacinotti.
Palermo	29.83	757.6	30.08	764.1	50.9	10.5	58	nne.	9.8	4.4			7		nne.		0.059	1.5	Prof. G. Cacciatore.
Syracuse	29.94	760.5	29.98	761.6	52.0	11.1	62	ne.	6.3	2.8			7		wnw.		0.039	1.0	Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.52	749.8	30.06	763.5	47.8	8.8	58	ne.	0.7	0.3			3		ne.		0	0	Prof. F. Brioschi.
JAPANESE.																			
Akita	29.95	760.8	29.98	761.7	23.7	—4.6	81	nw.			7		10 n				0.102	2.6	snowing
Awomori	29.89	759.2	29.93	760.2	18.7	—7.4	72	wsw.	23.0	10.3			10 n				0.137	3.5	snowing
Hakodate	29.86	758.5	29.87	758.8	20.8	—6.2	70	w.	33.0	14.7		0	6 s;n				0	0	fair
Hamamatsu	30.01	762.3	30.11	764.7	37.5	3.1	69	wnw.			4	0	0				0	0	clear
Hiroshima, I. M. Obs'y	30.31	769.8	30.32	770.2	32.1	0.1	64	s.	0.5	0.2		0	0				0	0	clear
Kagoshima	30.34	770.7	30.36	771.0	31.5	—0.3	74	n.			2	0	1 s				0	0	clear
Kanazawa	30.01	762.3	30.12	765.0	33.1	0.6	98	s.	13.3	5.9			10 n				0.595	15.1	snowing
Kioto	30.02	762.4	30.19	766.8	35.0	1.7	66	w.	2.0	0.9		0	1s;ck		nw.		0	0	clear
Kochi	30.26	768.7	30.29	769.2	33.8	1.0	70	w.	5.2	2.3		0	0				0	0	clear
Miasaka	30.30	769.5	30.32	770.2	35.0	1.7	59	wnw.			2	1 cs	2 ks		w.	w.	0	0	fair
Miyako	29.8[illegible]	757.2	29.92	760.0	25.0	—3.9	31	n	4.3	1.9		0	0				0	0	clear
Nagasaki, I. M. Obs'y	30.17	766.3	30.39	771.9	33.5	0.8	70	calm	0	0		0	0				0	0	clear
Nemuro	29.58	751.3	29.63	752.6	29.3	—1.5	82	calm	0	0			10 s				0	0	cloudy
Niigata	29.97	761.2	30.01	762.2	32.6	0.3	73	w.	14.3	6.4			10 ks		w.		0.125	3.2	cloudy
Nobiru	29.94	760.4	29.95	760.8	26.6	—3.0	64	nw.	19.6	8.7		0	1 s				0.015	0.4	clear
Numadzu	29.95	760.7	29.98	761.6	33.7	0.9	73	nnw.			1	0	0				0	0	clear
Osaka	30.20	767.0	30.21	767.4	35.5	1.9	67	se.	15.5	6.9		0	0				0	0	clear
Sakai	30.25	768.3	30.26	768.5	36.8	2.7	61	w.			4	0	1 ks		nw.		0.047	1.2	clear
Sapporo	29.72	755.0	29.79	756.8	18.0	—7.8	48	nw.	5.9	2.6			10 ns				0	0	covered
Shimonoseki	30.21	767.3	30.25	771.0	37.3	2.9	70	nnw.			1	0	1 s		nw.		0	0	clear
Tokei Obs'y, Yendo	29.90	759.4	29.98	761.5	34.2	1.2	55	n.	9.2	4.1		0	0				0	0	clear
Wakayama	30.20	767.1	30.26	768.5	37.6	3.1	59	nw.	8.0	3.6		0	0				0	0	clear
MAURITIUS.																			
Mauritius R. A. Observatory	29.76	755.9	29.94	760.5	82.4	28.0	64	ene.	12.5	5.6		1 cs	4 k		ene.		0	0	fair
MEXICAN.																			
Leon	24.29	617.0	30.08	764.0	48.2	9.0	78	ssw.	0.9	0.4			10ck;s		s.		0	0	overcast
Mazatlan	29.71	754.6	29.97	761.3	69.5	20.8	80	nw.	1.6	0.8		6 ck	0		sw.		0	0	fair
NETHERLANDS.																			
Flushing	30.51	775.0	30.51	775.0	45.5	7.5		wnw.			3						0.028	0.7	
Groningen	30.35	770.8	30.40	772.2	43.9	6.6		nnw.			2						0.043	1.1	
Helder	30.40	772.1	30.40	772.1	44.2	6.8		wnw.			4						0	0	
Helleveotsluis	30.47	773.9	30.47	773.9	50.0	10.0	92	nw.			2						0	0	
Utrecht	30.39	772.0	30.45	773.4	46.6	8.1	92	wnw.			2		10				0.008	0.2	covered
Sub-series.																			
Batavia, Java	29.87	758.7			78.1	25.6	80	wnw.	0	0			10				0.031	0.8	
NORWEGIAN.																			
Bergen	29.97	761.2	30.03	762.8	38.1	3.4	97	sse.	13	6			10				0.654	16.6	raining
Brono	29.48	748.8	29.52	749.8	32.9	0.5	90	sse.			4		10						snowing
Christiania	29.78	756.5	29.94	760.4	30.9	—0.6	100	e.	0	0			10				0	0	foggy
Gjesvær	29.36	745.7	29.38	746.3	27.7	—2.4		sww.			4		10				0	0	
Lodingen	29.46	748.2	29.50	749.4	32.2	0.1	71	s.			6		10				0	0	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira																		raining	Capt. D. A. de Cunha.
Lisbon, Observatory	30.16	766.1	30.25	768.3	63.0	17.2	83	e.	4.3	1.9			10						The Staff.
Ponta Delgada, Azores	30.06	763.5	30.41	772.4	46.8	8.2	73	ne.	12.5	5.6			0				0	0	
Saint Paul de Loando	29.99	761.8	30.06	763.6	62.6	17.0	92	se.	7.4	3.3			3				0	0	
St. Vincent, Cape Verd Ids	30.10	764.4	30.13	765.3	71.8	22.1	86	e.			3		4				0	0	
San Salvador, Congo	28.08	713.3	29.91	759.8	78.3	25.7	74	nw.			1		10				0	0	
Serra da Estrella	25.53	648.5	30.44	773.1	37.0	2.8	74	ese.	21.0	9.4			0				0	0	
RUSSIAN.																			
Akmolinski	28.93	734.7	30.10	764.6	10.9	—11.7	85	s.	11	5			9 k				0	0	Major K. Lasarew.
Arcnangel	29.92	760.0	29.94	760.5	—17.3	—27.4	84	e.	4	2		0	7 ks				0	0	Capt. Seliwerstow
Ashurada	29.88	758.9	29.78	756.5	57.6	14.2	71	ene.	9	4			10 k				0	0	
Astrakhan	29.78	756.3	29.70	754.3	31.6	—0.2	92	nw.	9	4			10 n				0	0	hvy. clouds
Baku	29.78	756.4	29.73	755.2	45.9	7.7	76	n.	4	2		0	3 ks				0	0	Capt. Wisganow.
Barnaul	30.03	762.8	30.59	777.0	7.3	—13.7	90	s.	4	2			3				inap.	inap.	Meteorological Office.
Bielosersk	29.40	746.7	29.93	760.3	—12.5	—24.7	83	calm	0	0		0	6 ks				0	0	
Dorpat	29.50	749.4	29.76	756.0	19.8	—6.8	94	e.	4	2			10 n				0.079	2.0	Observatory.
Ekaterinburg	29.31	744.4	30.39	772.0	—2.9	—19.4	93	ne.	4	2			10 n				0.028	0.7	Meteorological Obs'y
Elissawetgrad	29.47	748.4	29.94	760.5	28.0	—2.2	79	sw.	13	6			9 ks				0	0	snowing
Kasan	29.44	747.7	29.72	754.9	21.2	—6.0	95	e.	2	1			10				0	0	
Kem	29.94	760.5	29.99	761.8	—4.4	—20.2	80	calm	0	0			10				0	0	Observatory.
Kertch	29.96	761.0	29.98	761.6	28.9	—1.7		calm	0	0			9 n				0	0	h'vy clouds.
Kiew	29.07	738.4	29.73	755.1	32.2	0.1	79	sw.	9	4			10ks;n				0.008	0.2	Lagorio & Sastyres.
Koslov	29.26	743.2	29.81	757.1	7.3	—13.7	70	nnw.	4	2			10 s				0	0	Observatory.
Ligov	29.24	742.8	29.80	758.4	25.2	—3.8	89	ssw.	7	3		0	8				0	0	
Libau	29.64	752.8	29.66	753.4	35.2	1.8	85	n.	11	5			10				0.106	2.7	R. I. Saaweljew, Engin'r.
Lugan	29.72	755.0	29.94	760.5	24.1	—4.4	81	sw.	9	4			8				0	0	L. Quass.
Moscow	29.28	743.8	29.83	757.6	—2.9	—19.4	80	calm	0	0		0	0				0	0	Meteorological Obs'y
Nertschinsk	28.08	713.1	30.79	782.1	—23.8	—31.0	72	calm	0	0			0				0	0	Meteorological Obs'y

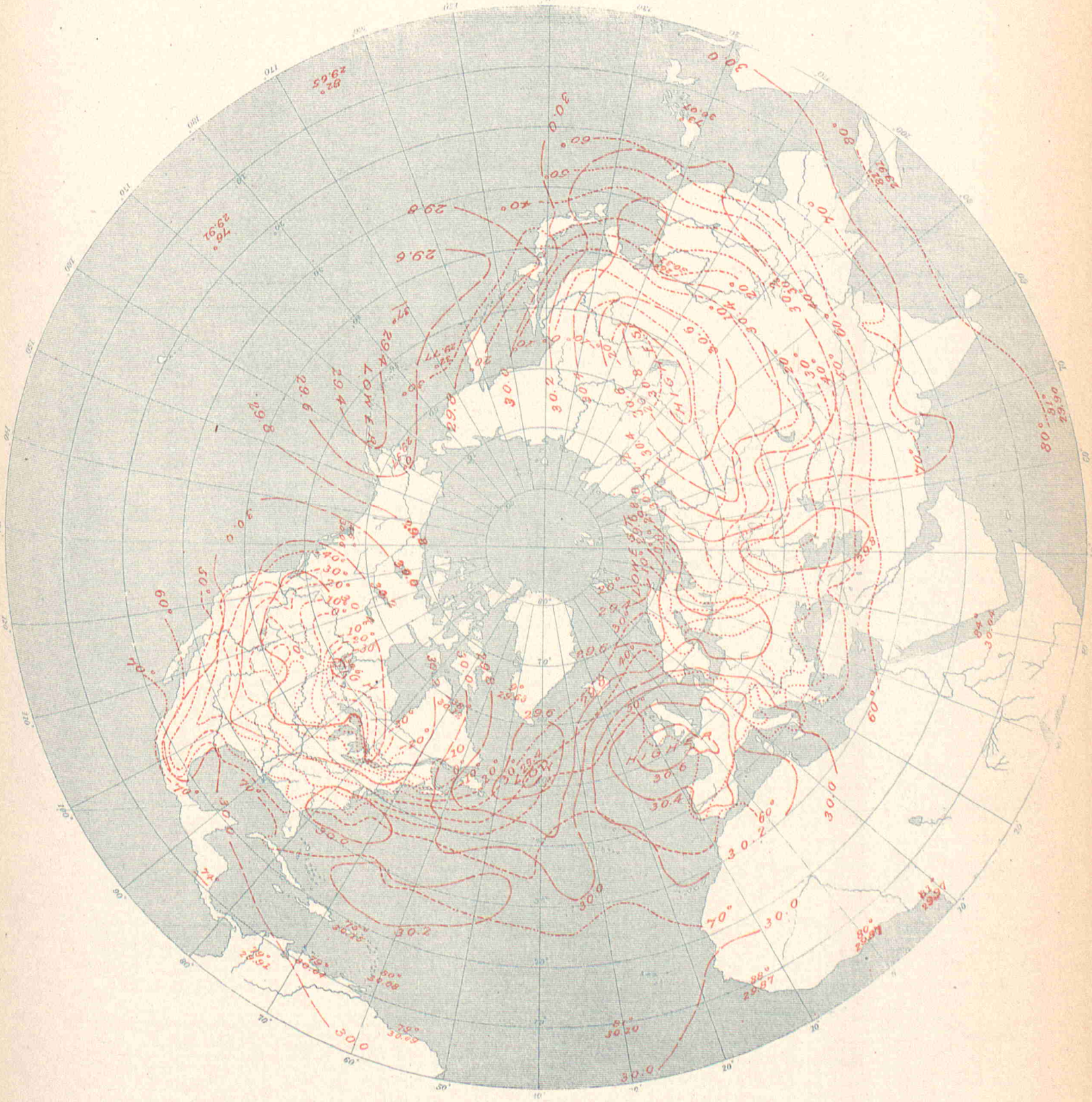
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaiev	29.91	759.6	29.98	761.4	29.7	— 1.3	76	sw.	13	6	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolievsk-on-the-Amoor.	30.05	763.3	30.14	765.5	5.5	—14.7	74	nw.	2	1	.....	.....	10 n	.....	.....	.....	.....	light snow..	Iwanow.
Pekin, China	30.17	766.2	30.31	769.8	26.2	— 3.2	51	calm	0	0	.....	0	5 k	.....	.....	0	0	.....	Physical Observatory
Petro-Alexandrovsk	29.48	748.8	29.84	758.0	42.4	5.8	66	se.	3.4	1.5	.....	.....	10 k	.....	.....	.....	.....	.....	
Petrozavodsk	29.71	754.6	29.93	760.3	—12.6	—24.8	81	calm	0	0	.....	0	1 s	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.12	739.7	29.63	752.7	33.8	1.0	96	wsw.	9	4	.....	.....	10 s	.....	.....	0.059	1.5	.....	
Poti	29.84	758.0	29.87	758.8	49.8	9.9	99	sw.	4	2	.....	.....	10 n	.....	.....	0	0	.....	
St. Petersburg	29.83	757.7	29.85	758.3	6.4	—14.2	85	e.	4	2	.....	0	0	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.61	701.2	30.15	765.7	41.2	5.1	69	calm	0	0	.....	1 c	0	.....	.....	.....	.....	.....	
Semipalatinsk	29.79	756.7	30.52	775.2	9.1	—12.7	88	se.	9	4	.....	.....	10	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.77	756.2	30.00	761.9	33.3	0.7	78	ne.	7	3	.....	0	7 s	.....	.....	0	0	.....	
Staroi Bykhov	29.06	738.2	29.64	752.8	28.2	— 2.1	92	ese.	9	4	.....	.....	10	.....	.....	0.071	1.8	*light snow..	
Tashkend, Laboratory	28.41	721.7	30.15	765.9	36.7	2.6	59	calm	0	0	.....	0	6 k	.....	.....	.....	.....	light clouds	Terch, A. M
Tiflis	28.42	721.9	29.86	758.5	43.9	6.6	58	calm	0	0	.....	4 cs	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.58	700.5	30.32	770.2	9.5	—12.5	70	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Viatka	29.17	740.8	29.85	758.3	5.7	—14.6	92	s.	2	1	.....	.....	10	.....	.....	0.031	0.8	.....	
Vladivostock	30.19	766.7	30.25	768.4	1.2	—17.1	60	nne.	18	8	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.31	744.5	29.75	755.6	35.6	2.0	78	w.	18	8	.....	.....	10	.....	.....	0.035	0.9	heavy cl'ds..	Astronomical Obs'y.
Yeniseisk	30.48	774.1	30.82	782.7	—16.1	—26.7	80	e.	4	2	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.17	740.9	29.78	756.4	— 3.8	—19.9	80	w.	10	4.5	.....	0	5 s	.....	w.	0	0	fair	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.17	766.2	30.28	769.0	54.3	12.4	57	w.	.....	.....	.....	.....	.....	.....	.....	0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.54	775.6	30.60	777.1	47.1	8.4	79	sw.	0.7	0.3	.....	.....	10	.....	.....	0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.44	697.0	30.58	776.8	37.2	2.9	74	ne.	12.5	5.6	.....	0	2	.....	.....	0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.14	714.8	30.44	773.2	48.6	9.2	56	n.	2.5	1.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.23	767.9	30.35	771.0	59.4	15.2	77	wsw.	1.1	0.5	.....	0	1	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.46	748.3	30.38	771.7	51.3	10.7	54	ne.	8.7	3.9	.....	.....	0	.....	.....	0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.03	762.7	30.10	764.4	66.6	19.2	93	se.	1.6	0.7	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.02	762.4	30.07	763.8	73.0	22.8	82	ne.	2.2	1.0	.....	0	8	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.25	768.3	30.35	770.9	60.1	15.6	56	e.	20.9	9.3	.....	0	1	.....	e.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	30.06	763.6	30.15	765.9	75.2	24.0	71	se.	3.6	1.6	.....	.....	10 kn	.....	se.	0.307	7.8	raining	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.72	754.8	29.76	755.8	9.3	—12.6	100	e.	.....	.....	2	.....	8	.....	.....	0.106	2.7	.....	
Umea	29.67	753.6	29.72	754.9	16.9	— 8.4	88	calm	.....	.....	0	.....	4	.....	.....	0.079	2.0	.....	
Hernosand	29.70	754.3	29.75	755.6	30.2	— 1.0	76	calm	.....	.....	0	.....	2	.....	.....	0.134	3.4	.....	
Stockholm	29.65	753.2	29.83	757.7	32.0	0.0	79	nnw	.....	.....	2	.....	10	.....	.....	0.098	2.5	.....	
Wisby	29.69	754.2	29.75	755.7	36.7	2.6	72	nne.	.....	.....	7	.....	10	.....	.....	0.193	4.9	.....	
Sub-series																			
Upsala	29.73	755.2	29.82	757.4	29.7	— 1.3	78	nw.	9.6	4.3	.....	.....	3	n.	n.	0	0	.....	H. H. Hildebrandsson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	29.92	760.0	40.3	4.6	70	ne.	14	6.5	.....	.....	10	.....	n.	0.354	9.0	raining	The Observatory.
Valona	.....	.....	29.90	759.9	49.5	9.7	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.97	761.3	62.4	16.9	58	sw.	.....	.....	4	.....	3 n	.....	sw.	0	0	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.18	766.6	30.26	768.6	15.5	— 9.2	57	n.	6	2.7	.....	0	10 s	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.59	751.6	30.30	769.6	0.8	—17.3	72	w.	7	3.1	.....	.....	1	.....	.....	0.01	0.3	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.89	632.2	30.01	762.2	33.0	0.6	81	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.36	694.9	30.40	772.1	3.0	—16.1	76	n.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	F. Newman.
Atlanta, Georgia	28.83	732.3	30.06	763.5	42.2	5.7	91	nw.	8	3.6	.....	1 k	0	nw.	.....	0.16	4.1	clear	S. W. Beall.
Atlantic City, New Jersey	29.98	761.5	29.99	761.7	33.0	0.6	68	ne.	20	8.9	.....	.....	10 n	.....	.....	0.07	1.8	heavy snow	B. A. Blundon.
Augusta, Georgia	29.81	757.2	30.01	762.2	56.3	13.5	75	w.	7	3.1	.....	0	1 s	.....	.....	0.01	0.3	clear	W. J. Evans.
Baltimore, Maryland	30.01	762.2	30.06	763.5	37.2	2.9	79	ne.	2	0.9	.....	.....	10 n	.....	n.	0.14	3.6	sleeting	Geo. W. Feiger.
Barnegat City, New Jersey	30.04	763.0	30.06	763.5	32.0	0.0	94	ne.	26	11.6	.....	.....	10 n	.....	ne.	0.10	2.5	heavy snow.	F. L. Johnson.
Bennett, Fort, Dakota	28.74	730.0	30.48	774.2	16.0	— 8.9	70	se.	3	1.3	.....	5 k	5 s	.....	.....	inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.41	696.2	30.39	771.9	10.7	—11.5	61	calm	0	0	.....	0	0	.....	.....	0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.50	723.9	30.50	774.7	6	—14.4	70	ne.	4	1.8	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.10	764.5	30.13	765.3	28.5	— 1.9	82	ne.	17	7.6	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	J. T. Elker.
Boise City, Idaho	27.48	698.0	30.41	772.4	11	—11.7	83	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	James Kenealy.
Boston, Massachusetts	30.00	762.0	30.17	766.3	19.0	— 7.2	70	nw.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.99	761.7	60.7	15.9	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	John McGlone.
Buffalo, New York	29.48	748.8	30.27	768.8	10	—12.2	89	ne.	5	2.2	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.28	718.3	30.51	774.9	3.8	—15.7	100	n.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy.	A. Schneider.
Cairo, Illinois	29.83	757.7	30.25	768.3	27.0	— 2.8	88	ne	16	7.2	.....	.....	10 s	.....	ne.	0.52	13.5	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.12	765.0	30.32	770.1	36.0	2.2	72	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Young.
Cape Henry, Virginia	29.88	758.9	29.90	759.4	42.0	5.6	100	n.	12	5.4	.....	.....	10 s	.....	.....	1.12	28.4	cloudy	A. K. Alderson
Cape May, New Jersey	29.99	761.7	30.02	762.5	36.0	2.2	94	ne.	20	8.9	.....	.....	10 n	.....	.....	0.23	5.8	light rain	W. E. Smith.
Cape Mendocino, California	29.35	745.5	30.05	763.3	46	7.8	80	ne.	20	8.9	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	59.0	15.0	100	s.	8	3.6	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	G. W. Davis.
Charleston, S. Carolina	29.90	759.4	29.96	761.0	58.0	14.4	93	sw.	7	3.1	.....	.....	10 s	.....	sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.07	738.4	29.06	761.0	46.1	7.8	91	nw.	3	1.3	.....	.....	10s; fg	.....	w.	0.05	1.3	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742.7	30.10	764.5	40.5	4.7	82	w.	3	1.3	.....	.....	10 ks	.....	nw.	0.45	11.4	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.04	610.0	30.31	769.9	— 2.6	—19.2	82	nw.	6	2.7	.....	0	0	.....	.....	0.29	7.4	clear	E. McGovern.
Chicago, Illinois	29.55	750.6	30.30	769.6	21.7	— 5.7	75	w.	2	0.9	.....	.....	10 n	.....	.....	0.01	0.3	light snow	Wm. Norrington.
Chincoteague, Virginia	29.89	759.2	29.91	759.7	41	5.0	100	e.	12	4.5	.....	.....	10 n	.....	e.	0.24	6.1	light rain	O. F. Dickens.
Cincinnati, Ohio	29.53	750.0	30.22	767.6	27.2	— 2.7	86	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.21	5.3	cloudy	L. Dunne.
Cleveland, Ohio	29.46	748.3	30.24	768.1	14.0	—10.0	89	ne.	10	4.5	.....	.....	10 s	.....	ne.	0	0	cloudy	W. Line.
Columbus, Ohio	29.29	744.0	30.19	766.8	20.5	— 6.4	78	n.	12	5.4	.....	.....	10 s	.....	n.	0.04	1.0	cloudy	F. T. Williams.
Concho, Fort, Texas	28.20	716.3	30.22	767.6	34.0	1.1	88	ne.	12	5.4	.....	.....	10 s	.....	ne.	0	0	cloudy	C. E. King.
Custer, Fort, Montana	27.08	687.8	30.46	773.7	3	—16.1	49	w.	4	1.8	.....	0	5 ks	.....	.....	0.03	0.8	fair	W. J. Daily.
Davenport, Iowa	29.68	753.9	30.39	771.9	13	—10.6	70	n	7	3.1	.....	6cs; hz	0	nw.	.....	0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.16	639.1	30.14	765.5	34.1	1.2	84	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.64	727.4	30.45	773.4	27.4	— 2.6	70	e.	3	1.3	.....	.....	10 ks	.....	ne.	0	0	cloudy	H. S. Blandford.
Deadwood, Dakota	25.50	647.7	30.45	773.4	15.0	— 9.4	80	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	G. Kingsbury.
Delaware Breakwater, Del.	29.98	761.5	30.03	762.0	34.4	1.3	100	ne.	29	13.0	.....	.....	10 n	.....	ne.	0.22	5.6	light snow	G. A. Martin.
Denver, Colorado	24.83	630.7	30.35	770.9	15.4	— 9.2	80	calm	0	0	.....	0	4 k	.....	.....	0.11	2.8	fair	F. M. Neal.
Des Moines, Iowa	29.53	750.0	30.50	774.7	4.8	—15.1	53	n.	7	3.1	.....	.....	10 s	.....	n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.50	750.8	30.32	770.1	12.2	—11.0	61	nw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	N. B. Conger.
Dodge City, Kansas	27.66	702.6	30.41	772.4	19	— 7.2	91	n.	12	5.4	.....	.....	10 n	.....	.....	0.02	0.5	light snow..	J. E. Lanouette.
Dubuque, Iowa	29.64	752.8	30.41	772.4	10.5	—11.9	62	nw.	3	1.3	.....	5 cs	0	w.	.....	0	0	fair	J. Harvey Smith
Duluth, Minnesota	29.69	754.1	30.50	774.7	—18	—27.8	100	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. R. Brace.
Eastport, Maine	30.07	763.8	30.14	765.5	— 1.5	—18.6	66	nw.	14	6.3	.....	0	2 s	.....	n.	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.41	696.2	30.34	770.6	21.4	— 5.9	100	ne.	13	5.8	.....	.....	10 s	.....	.....	0.16	4.1	cloudy	J. C. Rickli.
El Paso, Texas	26.19	665.2	30.07	763.8	34.7	1.5	89	calm	0	0	.....	0	6 s	.....	sw.	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.47	748.5	30.24	768.1	12.0	—11.1	89	ne.	12	5.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	C. A. Shaw.
Escanaba, Michigan	29.68	753.9	30.40	772.1	—12.0	—24.4	52	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Fort Smith, Arkansas	29.72	754.9	30.22	767.6	33.2	0.7	88	n.	6	2.7	.....	.....	10 n	.....	.....	0.25	6.3	light snow..	J. B. Campbell.
Galveston, Texas	30.00	762.0	30.04	763.0	49	9.4	86	n.	8	3.6	.....	0	5 s	.....	.....	0.21	5.3	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.62	752.3	30.32	770.1	12.0	—11.1	80	e.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.10	637.5	30.00	762.0	40.7	4.8	61	e.	1	0.4	.....	.....	10 s	.....	e.	0	0	cloudy	Chas. A. Read.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	29.88	758.9	29.89	759.2	45.5	7.5	100	n.	4	1.8	.....	.....	10 s	.....	ne.	0.29	7.4	cloudy	R. M. Crawford
Helena, Montana	26.03	661.2	30.41	772.4	.....	.....	.....	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.99	736.3	30.53	775.4	9.2	—12.7	66	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.36	745.7	30.20	767.1	23.0	— 5.0	67	ne.	5	2.2	.....	9 cs	0	w.	.....	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.03	762.7	30.06	763.5	47.2	8.4	87	n.	19	8.5	.....	4c;cs	0	w.	.....	0.01	0.3	fair	I. A. Reed.
Jacksonville, Florida	30.00	762.0	30.05	763.3	62.5	16.9	91	s.	10	4.5	.....	4 cs	fg.	sw.	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.69	754.1	30.39	771.9	17.0	— 8.3	75	n.	4	1.8	.....	.....	10 n	.....	n.	inap.	inap.	light snow	F. Z. Gosewisch.
Key West, Florida	30.08	764.0	30.10	764.5	69.5	20.8	87	se.	6	2.7	.....	0	1 ks	.....	.....	0.01	0.3	clear	A. W. Browne.
Kittyhawk, North Carolina	29.89	759.2	29.91	759.7	44.0	6.7	96	nw.	1	0.4	.....	.....	10 ks	.....	.....	0.21	5.3	cloudy	Wesley Blake.
Knoxville, Tennessee	29.01	736.8	30.09	764.3	30.5	2.5	85	nw.	4	1.8	.....	.....	10 s	.....	.....	0.59	15.0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.58	751.3	30.42	772.7	— 4	—20.2	65	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.49	749.0	30.45	773.4	16	— 8.9	74	n.	10	4.5	.....	.....	10 n	.....	.....	0.03	0.8	light snow	T. S. Outram.
Lewiston, Idaho	29.65	753.1	30.52	775.2	25.0	— 3.9	74	calm	0	0	.....	0	8 ks	.....	se.	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.84	757.9	30.17	766.3	37.0	2.8	82	ne.	10	4.5	.....	.....	10 s	.....	.....	1.08	27.4	cloudy	W. U. Simons.
Los Angeles, California	29.51	749.5	29.91	759.7	46.7	8.2	94	ne.	3	1.3	.....	5 c	0	s.	.....	0.33	8.4	fair	T. S. Collins
Louisville, Kentucky	29.58	751.3	30.17	766.3	30.2	— 1.0	91	n.	5	2.2	.....	.....	10 s	.....	.....	0.54	13.7	cloudy	L. M. Dey.
Lynchburg, Virginia	29.27	743.4	29.99	761.7	37.0	2.8	82	ne.	2	0.9	.....	.....	10 n	.....	n.	0.43	10.9	light rain	Jno. Healy.
Mackinaw City, Michigan	29.62	752.3	30.32	770.1	2.0	—16.7	75	w.	4	1.8	.....	0	2 s	.....	.....	0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.92	760.0	29.93	760.2	53.7	12.1	95	nw.	23	10.3	.....	0	8s;fg	.....	nw.	0.14	3.6	cloudy	William Daly.
Maginnis, Fort, Montana	25.71	653.0	30.48	774.2	26.6	— 3.0	64	sw.	8	3.6	.....	5 k	0	.....	.....	0.10	2.5	fair	F. Burke.
Marquette, Michigan	29.60	751.8	30.38	771.6	—10.3	—23.5	51	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.80	756.9	30.16	766.1	34	1.1	78	nw.	8	3.6	.....	.....	10 s	.....	.....	0.95	24.1	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.57	751.1	30.37	771.4	6.4	—14.2	76	n.	11	4.9	.....	0	0	.....	.....	0.01	0.3	clear	S. W. Rhode.
Mobile, Alabama	30.05	763.3	30.09	764.3	52.2	11.2	90	n.	7	3.1	.....	.....	10 s	.....	n	0.16	4.1	cloudy	H. U. Jones.
Montgomery, Alabama	29.83	757.7	30.07	763.8	51.3	10.7	92	calm	0	0	.....	0	9 s	.....	nw.	0.16	4.1	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	28.41	721.6	29.52	749.8	—13.3	—25.2	100	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.37	593.6	30.00	762.0	— 3.0	—19.4	71	nw.	48	21.5	.....	10 c	0	nw.	.....	0.06	1.5	cloudy	Edwd. A. Beals.
Nashville, Tennessee	29.55	750.6	30.16	766.1	35.5	1.9	83	n.	4	1.8	.....	.....	10 ks	.....	n.	1.12	28.4	cloudy	L. N. Jesunofsky
New Haven, Connecticut	30.01	762.2	30.13	765.3	25	— 3.9	64	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Sherman
New London, Connecticut	30.15	765.8	30.20	767.1	28.0	— 2.2	77	ne.	5	2.2	.....	.....	9 ks	.....	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.06	763.5	51.5	10.8	86	calm	0	0	.....	.....	fg.	.....	.....	0.18	4.6	dense fog	M. Herman.
New York, New York	29.95	760.7	30.14	765.5	25.5	— 3.6	88	ne.	14	6.3	.....	.....	10 n	.....	.....	0.12	3.0	light snow	H. J. Penrod.
Norfolk, Virginia	29.89	759.2	29.92	760.0	45.0	7.2	89	ne.	4	1.8	.....	.....	10s;fg	.....	w.	0.10	2.5	cloudy	Wm. Davis.
North Platte, Nebraska	27.33	694.2	30.45	773.4	12.3	—10.9	75	nw.	3	1.3	.....	7 k	0	nw.	.....	0.02	0.5	fair	J. J. Mc Lean.
Olympia, Washington Ter	30.38	771.6	30.42	772.7	31.0	— 0.6	88	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb
Omaha, Nebraska	29.28	743.7	30.55	776.0	7.0	—13.9	71	n.	8	3.6	.....	6 cs	0	n.	.....	0	0	fair	A. Pollak
Oswego, New York	29.94	760.5	30.29	769.4	4.8	—15.1	91	ne.	12	5.4	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.57	751.1	30.15	765.8	42.5	5.8	83	n.	2	0.9	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	P. T. Jenkins.
Pensacola, Florida	30.05	763.3	30.08	764.0	53.8	12.1	90	n	6	2.7	.....	.....	10 s	.....	nw.	0.10	2.5	cloudy	M. McGauran.
Philadelphia, Pa.	29.98	761.5	30.09	764.3	31	— 0.6	100	ne.	12	5.4	.....	.....	10 n	.....	.....	0.90	22.9	heavy snow	T. F. Townsend.
Pike's Peak, Colorado	17.40	442.0	30.10	764.5	— 7.0	—21.7	100	w	.....	.....	1	.....	fg.	.....	.....	inap.	inap.	dense fog	H. Hall.
Pittsburg, Pennsylvania	29.29	744.0	30.14	765.5	24.0	— 4.4	88	nw.	7	3.1	.....	.....	10 n	.....	nw.	0.07	1.8	light snow	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	5.9	—14.5	87	se.	.....	.....	1	.....	10 s	.....	.....	inap.	inap.	cloudy	G. A. Garden.
Port Huron, Michigan	29.52	749.8	30.25	768.3	8.5	—13.1	76	nw	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.12	765.0	30.17	766.3	14.0	—10.0	64	n.	10	4.5	.....	5 cs	hz.	w.	.....	0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.25	768.3	30.32	770.1	32.8	0.4	89	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.66	626.4	30.04	763.0	29.8	— 1.2	74	w.	1	0.4	.....	3 ck	2 s	sw.	sw.	0	0	fair	N. D. Lane.
Provincetown, Mass.	30.12	765.0	30.15	765.8	23.3	— 4.8	64	n.	11	4.9	.....	10 cs	0	.....	.....	0	0	cloudy	O. N. Kitchel.
Red Bluff, California	29.76	755.9	30.13	765.3	43	6.1	28	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.82	757.4	30.07	763.8	59.9	15.5	94	e.	5	2.2	.....	0	7 ks	.....	se.	0	0	fair	L. G. Schultz.
Rochester, N. Y.	29.54	750.3	30.26	768.6	11	—11.7	80	e.	5	2.2	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.71	754.6	30.28	769.1	33.3	0.7	78	ne.	1	0.4	.....	.....	10 s	.....	n.	0	0	cloudy	J. J. Nunry.
Sacramento, California	29.98	761.5	30.06	763.5	36.0	2.2	65	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.65	753.1	30.31	769.9	23.5	— 4.7	94	n.	15	6.7	.....	.....	10s;sk	.....	n.	inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.54	750.3	29.57	751.1	0	—17.8	100	ne.	.....	.....	2	.....	10 n	.....	.....	0.06	1.5	light snow	Fred. H. Clarke
St. Paul, Minnesota	29.53	750.0	30.47	773.9	— 3.5	—19.7	100	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.54	750.3	30.52	775.2	—32	—35.6	100	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.83	656.1	30.40	772.1	14.2	— 9.9	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	29.79	756.7	29.86	758.4	53.6	12.0	86	n.	4	1.8	.....	.....	10 s	.....	se.	0.16	4.1	cloudy	F. R. Day.
Sandusky, Ohio	29.54	750.3	30.26	768.6	16	— 8.9	67	n.	17	7.6	.....	.....	10 s	.....	.....	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.09	764.3	30.12	765.0	27.4	— 2.6	88	ne.	34	15.2	.....	.....	10 n	.....	.....	0.04	1.0	light snow	V. P. Chappel.
Sanford, Florida	30.02	762.5	30.07	763.8	63.0	17.2	93	sw.	6	2.7	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. B. Marbury
San Francisco, California	29.97	761.2	30.04	763.0	45.2	7.3	75	s	4	1.8	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	29.89	759.2	29.99	761.7	59	15.0	81	sw.	8	3.6	.....	.....	10 n	.....	sw.	0.02	0.5	light rain	R. M. Geddings.
Shaw, Fort, Montana	26.55	674.4	30.41	772.4	16	— 8.9	70	sw.	15	6.7	.....	0	0	.....	.....	0.02	0.5	clear	A. L. Mathews.
Shreveport, Louisiana	29.86	758.4	30.11	764.8	43.5	6.4	91	ne.	7	3.1	.....	.....	10 s	.....	n.	0.98	24.9	cloudy	E. N. Meekins.
Sitka, Alaska	29.99	761.7	30.06	763.5	46.1	7.8	79	se.	12	5.4	.....	.....	10 n	.....	se.	3.27	83.1	heavy rain	F. W. Fickett.
Smithville, North Carolina	29.84	757.9	29.88	758.9	55.3	12.9	92	w.	19	8.5	.....	0	5 s	.....	w.	0.10	2.5	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.32	719.3	30.46	773.7	16.8	— 8.4	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.61	752.1	30.34	770.6	21.0	— 6.1	84	ne.	8	3.6	.....	.....	10 n	.....	nw.	inap.	inap.	light snow	T. B. Jennings.
Stockton, Fort, Texas	26.97	685.0	30.11	764.8	33.0	0.6	81	calm	0	0	.....	0	3 s	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.28	769.1	.....	.....	37.2	2.9	87	e.	8	3.6	.....	0	8 s	.....	e.	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.20	690.9	30.03	762.7	38	3.3	76	calm	.....	.....	0	.....	10 s	.....	.....	0	0	cloudy	R. C. Lord.
Toledo, Ohio	29.52	749.8	30.26	768.6	13.5	—10.3	70	ne.	6	2.7	.....	.....	10 s	.....	ne.	0	0	cloudy	A. Buell.
Unalaska, Alaska	29.22	742.2	29.24	742.7	34	1.1	89	sw.	10	4.5	.....	.....	10 s	.....	sw.	0.16	4.1	cloudy	Samuel Applegate
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	46.0	7.8	93	nw.	4	1.8	.....	.....	10n;fg	.....	.....	0.86	21.8	light rain	C. Dill.
Washington, D. C.	29.92	760.0	30.04	763.0	33.0	0.6	90	ne.	9	4.0	.....	.....	10 ks	.....	ne.	0.61	15.5	threatening	T. B. Harrison.
West Las Animas, Colorado	26.16	664.5	30.29	769.4	18	— 7.8	100	e.	7	3.1	.....	.....	10 n	.....	.....	0.12	3.0	light snow	F. H. Brandenburg
Wilmington, N. Carolina	29.86	758.4	29.92	760.0	57.5	14.2	93	w.	10	4.5	.....	4 ck;k	2 ks	sw.	sw.	0.08	2.0	fair	L. H. Albrecht.
Yankton, Dakota	29.12	739.6	30.54	775.7	8.6	—13.0	78	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	E. H. Thompson.
Yuma, Arizona	29.70	754.4	29.85	758.2	52.5	11.4	51	ne.	12	5.4	.....	0	6 s	.....	sw.	0	0	fair	W. S. Delano.
Subseries.																			
Behring Island, Kamchatka	29.75	755.6	29.77	756.1	31.9	— 0.1	83	e.	16	7.2	.....	0	9s;n	.....	var.	0.02	0.5	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	80	26.7	.....	ne.	.....	.....	4	0	4 ks	.....	ne.	0.31	7.9	fair	W. H. Jackson.
Bogota, U. S. C.	22.01	559.0	.....	.....	55.4	13.0	81	s.	4	2	.....	.....	fg.	.....	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava, B. A.	29.95	760.7	30.12	765.0	—38	—38.9	100	s.	18	8.0	.....	0	0	.....	.....	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.08	764.0	69.2	20.7	82	n.	1	0.4	.....	1 cs	9 s	.....	e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.08	764.0	30.09	764.3	79	20.1	87	e.	.....	.....	2	5 k	8 ps	e.	e.	0.170	4.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.35	745.5	29.91	759.7	79	26.1	89	calm	.....	.....	0	6 ck	1 ks	calm	calm	0	0	fair	Francisco J. Olsuere.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	91	ne.	.....	.....	2	.....	5 ks	.....	ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.33	770.4	30.40	772.1	—37.0	—38.3	.....	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.96	760.9	29.97	761.2	79.2	26.2	87	n	12.1	5.4	.....	0	5 k	.....	n.	.....	.....	hazy	P. Fasiani.
Naos, Bay of Panama	29.83	757.7	29.90	759.4	75.6	24.2	86	n.	.....	.....	4	0	2 k	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Alleghany Boston, Mass †	30.13	765.3	22	— 5.6		ne.			2		10		e.	0	0			cloudy.
Schr. Anna A. Holton, N. 36° 34′, W. 66° 38′ *†	30.00	762.0				sw.			6		10		sw.	4 h'r	4 h'r	r'gh	sw.	cloudy.
S. S. Arizona, N. 50° 38′, W. 27° 32′	30.22	767.6	53	11.7		sse.			6		8		sw.	0	0	mod.	s.	fair.
S. S. Alps, N. 36° 11′, W. 74° 05′			60	15.6		n.			2		10		wsw;n.	rain	rain	short		raining.
S. S. Belgenland, N. 50° 00′, W. 18° 06′			51	10.6	93	sw.			4				wsw.	0	0	long	nw.	clear.
S. S. Circassian, N. 44° 39′, W. 63° 37′	30.04	763.0	11	—11.7		wnw.			3		0					sm'h		clear.
S. S. City of Augusta, New York, N. Y †	30.16	766.1				nne.			6		10		ne.					snowing.
S. S. Canada, (Br) N. 42° 44′, W. 48° 55′ †	29.92	760 0	46	7.8		nw.			4		10			sh'rs	sh'rs	gentle	nnw.	cloudy.
Bk. Diamant, N. 42° 05′. W. 60° 46′	30.05	763.2	36.7	2.6	77	wnw.			5		9		wnw.			5	w.	overcast.
S. S. Dorian, N. 32° 55′, W. 49° 55′	30.27	768.8	63	17.2		w.			2		4		w.	0	0	mod.	w.	clear.
S. S. Denmark. N. 49° 40′, W. 27° 45′ †	30.20	767.1	54	12.2	93	ssw.			6		8		ssw.			mod.	ssw.	cloudy.
S. S. Daniel Steinmann, N. 50° 55′, W. 26° 34′ †	30.23	767.8	55	12.8		s.			6		9		s.	0	0	mod.	sw.	cloudy.
S. S. France, N. 42° 15′ W. 62° 45′ *†	30.00	762 0				n.			5		7		ne.	0	0	r'gh	sw.	fair.
Bg. Gipsy Queen, N. 30° 45′ W. 77° 15′ *†	30.00	762.0				ssw.			6		3		sw.	0	0	mod.	sw.	fair.
S. S. Lord Gough, N. 44° 12′, W 55° 22′*	29.79	756.7	31	— 0.6		wsw.			6		8		w.	5 h'r	5 h'r	high	wsw.	cloudy.
S. S. Llandaff City. N. 50° 29′. W. 18° 48′*†	30.40	772.1	54	12.2		s.			5		9		sw.	0	0	mod.	sw.	overcast.
S. S. Lessing, N. 47° 13′, W. 40° 20′	29.59	751.6	53	11.7		sw.			6		10		sw.	2 h'r	2 h'r	r'gh	sw.	cloudy.
J. S. Labrador. N. 49° 58′, W. 26° 31′ *†	30.32	770.0	51.8	11		s.			4		8		s.			r'gh	s.	fair.
Bg L. F. Munson, Halifax, N.S						nw.			7		2		nw					clear.
S. S. Main, N. 49° 14′, W. 36° 02′	29.65	753.1	55.4	13.0		sse.			6		7		sw.	0	0	cross	sse.	cloudy.
S. S. Neckar, N. 42° 28′, W. 56° 06′	29.93	760.2	38.0	3.3	90	wnw.			6		5		wnw.	0	0	r'gh	wnw.	fair.
Schr. Maggie Abbott, N. 30° 50′, W, 74° 26′*†	30.05	763.3				w			4		4		w.	sh'rs	sh'rs	mod.	n.	clear.
Bg Matthias, N. 35° 10′, W. 62° 09′*†	30.07	763.8	68.0	20.0		sw.			5		6		sw.	0	0	5	nw.	hazy.
S. S. New York, N 25° 00′ W. 84° 00′ *†	30.14	765.5	78	25.6		sw.			2		2		sw.			sm'h		clear.
S. S. Nova Scotian, N. 41° 24′, W. 66° 22′	30.14	765.5	32	0.0		nnw.			3		10		nw.			sm'h		snowing.
S. S. Nederland, N. 43° 18′, W. 57° 27			30	— 1.1	100	wnw.			5		2		w.	3 h'r	3 h'r	mod.	w.	fair.
S. S. Nurnberg, N. 49° 27, W. 25° 01′	30.24	768.1	53.6	12.0		s.			6		7		s.	1 h'r	1 h'r	high	sw.	squally.
S. S. Oregon, (Br) N. 49° 52′, W. 35° 48′	29.67	753.6	54	12.2		s.			4		10		s.			mod.	s.	overcast
S. S. Picqua, N. 35° 20′, W. 42° 15′ *†	30.15	765.8	58	14.4	69	nw.			6				nnw.	0	0	high	nw.	cloudy.
S. S. Republic, N. 45° 57′, W. 40° 11′*†	29.74	755.4	52	11.1		wsw.			3		9		nw.	0	0	mod.	var.	cloudy.
S. S. Romano, N. 41° 41′, W. 57° 16′	29.92	760 04	44	6.7		wnw.			3		10			4 h'r	4 h'r	mod.	w.	dense haze
Bk. Rosina, N. 30° 09′, W. 66° 36′	30.21	768.1	71	21.7		sw.			3		0			0	0	mod.	nw.	clear.
S. S. State of Georgia, N. 54° 03′, W. 23° 53′†	30.39	771.9	51	10.6		s			6		5		s.	shr's	shr's	mod.	w.	drizzling.
S. S. Salier, N. 49° 34′, W. 42° 54′ *	29.39	746 5				sw.			9		8		sw.	5 h'r	5 h'r	cross	sw.	cloudy.
Bgt. Sunlight, Demerara, Brit. Guiana						ne.			4		5		ne.	0	0	mod.	ne.	fair.
S. S. Thingvalla, N. 59° 23′, W. 9° 28′†	30.30	769.6	49.1	0.5		w.			5		10		w.	4 h'r	4 h'r	h'vy	w	misty.
Schr. Viola Reppard, Portland, Maine †	30.17	766.3	16	— 8.9		calm			0		0			0	0			clear
S. S. Valencia, Puerto Cabello, Venezuela †	30.04	763.0	78	25.6	82	ene.			2		4		ene.	0	0			fair.
S. S. Westphalia, N. 50° 07′. W. 22° 46′			53	11.7	93	ssw.			5		7		s.	0	0	long	s.	fair.
S. S. Zaandam, N. 49° 51′, W 13° 03′	30.68	779.3	56.1	13.4	86	e.			1		9		nne.	0	0	mod.	nw.	cloudy.
Bk. Ariadne, N. 36° 36′, W. 71° 39′	29.94	760.5	62	16.7		nw.			2		9		sw.	½ h'r	½ h'r	mod.	sw.	cloudy.
Schr. Annie R. Lewis. Cienfuegos, Cuba, W. I			72	22.2		ne.			1		0			0	0			clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.17	766.3				sw.			1		fg.		sw.	0	0	sm'h		foggy
Bk. Areola, N. 0° 28′, W. 39° 17′			90?	32.2?		se.			6		3		se.	0	0	mod.	ese.	clear.
U. S. S. Alliance, Port au Prince, Hayti, W. I	30.07	763.8	74	23.3	76	wsw.			2		0			0	0	sm'h		clear
S. S Bothnia, N. 51° 40′, W. 23° 46′	30.39	771.9	55	12.8	93	s.			4		8		ssw.	3 h'r	3 h'r	mod.	s.	gloomy.
S. S. British Princess, N. 51° 18′, W. 10° 00′†	30.75	781.0	53	11.7		e.			2		10			0	0	sm'h		overcast.
S. S. Chalmette, Algiers, La†	30.10	764.5	48	8.9		sw.			2					4 h'r	4 h'r			foggy.
S. S. Dominion, N 45° 06′, W. 59° 02′.			21	— 6.1		w.			5		10		w.			mod	wnw	cloudy.
Schr. Ellen Crusoe, Caicos. Bahamas, W I*†	30.12	765.0				e.							ene.	0	0			fine.
S. S. Gallia, N. 50° 14′, W. 27° 56′	30.09	764.3	56	13.3		sse.			6		10		sw.	0	0	mod.	sw.	overcast.
S. S. Germanic, N 49° 53′, W. 29° 04′*†	30.05	763.3	55	12.8	93	sse.			6		9		sse.	2 h'r	2 h'r	mod.	wsw.	gloomy.
S. S. Grecian, N. 35° 52′, W. 15° 18′	30.29	769.4	59	15.0	70	se.			2		5		e.	0	0	light	ne.	fair.
Bg. John Welsh, jr, N. 28° 15′, W. 93° 10′						ne.			6		10		ne.			r'gh		raining.
S. S. Lone Star, N. 24° 42′, W. 83° 16′*†	30.12	765.0	74	23.3		se.			3		5		se.	0	0	sm'h		hazy.
S. S. Muriel, Antigua, W.I	30.08	764.0	79	26.1		ene.			4		2			light	light	sm'h		drizzling.
S. S. Orinoco, Bermuda, Atlantic			66	18.9		sw.			2		3		sw.	0	0			clear.
Bk. Saga, N. 23° 52′, W. 57° 19′ *†	30.20	767.0	77	25.0		var.			0–3		4		nw.	0	0	long		fair.
S. Storm King, N. 36° 06′, W. 37° 11′ *†	29.92	760.0				nw.			4		1		nw.	2 h'r	2 h'r	long	nw;e	clear
S. S. Samaria, off Kinsale, Ireland	30.73	780.5	54	12.2		e.			2		10		e.	0	0	sm'h	sse.	cloudy.
S. S. Salerno, Hull, Eng	30.49	774.4	48	8.9		w.			1		10		w.	0	0			cloudy.
S. S. St. Laurent, Havre, France	30.55	776.0	55.4	13.		ne.			1		10		ne.	0	0			overcast.
U. S. S. Swatara, Port au Prince, Hayti, W.I*	30.12	765.0	73	22.8	77	calm			0		0							clear.
U. S. S. Tennessee, near Port au Prince, Hayti, W. I	30.10	764.5	74	23.3	71	se.	2	0.9			1			0	0	sm'h		hazy.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I	30.03	762 7	77	25.0	77	ne.			1		0							clear.
S. S. Wyoming, N. 50° 37′ W.28° 18′	30.10	764.5	51	10.6		s.			6		9		s.	0	0	long	s.	misty.
S. S. Westernland, N. 50° 43′, E. 0° 13′	30.57	776.5	53	11.7		n.			2		0			0	0	sm'h		hazy
U. S. Navy Yard, Portsmouth, N.H*	30.22	767 6	15	— 9.4	82	nw.	4	1.8			8		sw	0	0			fair.
U. S. S. Kearsarge, N. 44° 04′. E. 9° 40′	30.03	762.7	53	11.7	67	sse.			2		0					sm'h		clear.
U. S. S. Lancaster, Villefranche, France	30.06	763.5	60	15.6	71	ese.			1		2			0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.13	765.3	26	— 3.3	7	ne.			1		10		calm			sm'h		cloudy.
U. S. S. Quinnebang, Leghorn, Italy	30.01	762.2	50	10.0	65	ene.			2		5		sw.			sm'h		fair.
U. S. S. Shenandoah, N. 28° 17′. W. 25° 45′ *	30.14	765 5	71	21.7	85	ssw.			2		2					sm'h		fair.
U. S. S. Trenton, Marseilles, France	30.12	765.0	53	11.7	67	nnw.			2		2					sm'h		clear.
H. M. S. Alexandra, Malta, Mediterranean			54	12.2	67	nne.			3		3		nne.					d. clouds.
H. M. S. Alecto, N. 5° 40′. E. 0° 32′	29.87	758 7	80	26.7		nnw.			2		3		ssw.			4	ssw.	d. clouds.
H. M. S. Comus, N. 13° 20′. W. 24° 00′	30.10	764.5	74	23.3	86	ne.			5		2		wnw.			4	nne.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.15	765.8	64	17.8	62	wnw.			4		4		wsw.					d. clouds
H. M. S. Minotaur, Gibraltar, Mediterranean	30.36	771.1	61	16.1	71	ssw.			3–6		5		wnw.					squally.
H. P. M. S. Douro, Fernando Po, W. Africa	29.97	761.1	80.6	27.0	92	wnw.			2		10			1 h'r	1 h'r	2	nw.	d. clouds.
S. S. Ohio, (Am) N. 47° 12′, W. 42° 15′ *†	29.02	752 3	44	6.7	100	ssw.			4		9		wsw.	0	0	mod.	wsw	cloudy.
S. S Pennsylvania, N. 39° 50′, W. 70° 08′			34	1.1	90	ne.			4		0?			9 h'r	9 h'r	mod.	ne.	snowing ?
S. S. Polynesian, N. 53° 11′, W. 33° 21′	29.62	752.3	46	7.8		sse.			5		10		s.	4 h'r	4 h'r	rg'h	ssw.	hazy.
S. S. Scandinavian, N. 50° 44′, W. 36° 32′	29.60	751.8	53	11.7		sse.			6		10		wsw.	12 h'r	12 h'r	mod	var.	raining.
S. S. Carroll, Halifax, N.S			6	—14.4		nw.			3		5		nw.					fair.
S. S. Wisconsin, N. 42° 40′, W. 41° 00′			33	0.6		nw.			5		6		w.	3 h'r	3 h'r	mod.	wsw.	cloudy.
S. S. Bohemia, Hamburg, Germany						wnw.			5		9			10h'r	10h'r			overcast.
S. S. Archimedes, (Br) N. 40° 22′, W. 51° 43′	29.89	759 2				w.			3		6		wsw.	2 h'r	2 h'r	mod.	wsw.	cloudy.
S. S. Hevelius, Liverpool, Eng*†	30.56	776.2	44	6.7		wnw.			6		8		wsw.	0	0			cloudy.
S. S. Teniers, N. 32° 20′, W. 16° 51′	30.27	768.8	63.4	17.4	87	se.			3	c8	9 8	se.		0	0	cf'd	var.	d. clouds.
S. S. Archimede, (It) N. 41° 22′, E. 3° 00′			62	16.7		n.			2		1		n.	0	0	sm'h	ne.	clear.
S. S. Texas, N. 33° 12′, W. 35° 56′			65	18.3	73	w.			4		5		wnw.	0	0	mod.	wnw.	cloudy.
S. S. Erin, London, Eng	30.53	775.4	49	9.4		nw.			6		8		nw.	0	0			light haze
S. S. Habsburg, N. 49° 39′, W. 8° 08′	30.74	780.8				calm			0		10		ne.	½h'r	½h'r	sm'h		covered
S. S. Strassburg, N. 20° 26′, W 23° 28′			76.5	24.7	68	ene.			4		0			0	0	3	ene.	clear.
S. S. Rhynland, Jersey City, N.J	30.17	766.3	29	— 1.7	89	nne.			2		10			snow	snow			overcast.
S. S. Switzerland, N. 43° 59′. W. 56° 05′ *†	29.81	757.2				w.			4		10		w.	0	0	mod.	w.	cloudy.
S. S. Waesland, N. 44° 46′, W. 50° 50′	29.78	756.4	36	2.2		wsw.			8		8		wsw.	5 h'r	5 h'r	r'gh	w.	cloudy.
S. S. W. A. Scholten, N. 47° 31′ W. 47° 07′			28.4	— 2.0	100	wnw.			3		10		w.	3 h'r	3 h'r	3	w.	squally.
S. S. State of Nevada, N. 47° 20′, W 46° 28′*†	29.58	751.3	37	2.8		w.			6		8		w.	0	0	hv'y	wnw.	cloudy.
S. S. Saxon, Philadelphia, Pa †	30.10	764 5	28	— 2.2		n.			2		10							snowing.
S. S. Celtic, Liverpool, Eng *†	30.62	777.7	50	10.0		n.			2		8		n.	0	0			fine.
S. S. Marengo, N. 45° 54′, W. 33° 34′			57	13.9		se.			6		10			6 h'r	6 h'r	long	sse.	raining.
Bg. Alcira, N. 28° 26′, W. 64° 35′	30.21	767.3	69	20.6		wsw.			2		4		w.	0	0	mod.	nnw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity Miles p. hr.	Velocity Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No 1—North Atlantic.—Continued.																		
S. S. Antonio Lopez, Cadiz, Spain	30.36	771.1	59	15.0	65	ese.			4		0							clear
Bgt. Achsah, Clementsport, N. S †	30.08	764.0	6	—14.4		wnw.			5		5?		wnw.	0	0			clear?
Bk. Bayonnaise, N. 27° 50′ W. 59° 50′ †	30.40	772.1	71.6	22		ne.			2		3		ne.	0	0	r'gh	n.	clear.
Bk. Chas. Stewart, N. 9° 00′, W. 30° 30′*†	30.10	764.5	81	27.2		ene.			6		2		ne.	0	0	long	n.	fair.
Schr. Clotilde, Key West, Fla†	30.13	765.3	75	23.9		se.			2		5		se.	0	0	sm'h	nw.	
Bk. Celestina, N. 35° 19′ W 9° 50′ *†	30.36	771.1				ene.			3		2		e.	0	0	light	e.n.	clear.
Bk. U. S Bushnell, N. 37° 08′, W. 0° 06′	30.42	772.7				calm			0					0	0			
S. Dora, N 63° 01′, W 0° 52′ *†	29.79	756.7	49.1	9.5		w.			7		9		w.	4 h'r	4 h'r	r'gh	w.	overcast.
S. E. J. Spicer, Liverpool, Eng	30.57	776.5	47	8.3	92	wnw.			3		10		wnw.					cloudy.
S. E. B. Sutton, N. 32° 30′, W 37° 04′ *†	30.00	762.0	66	18.9	89	nw.			6		5		nw.	rain	rain	h'vy	nw.	fair.
S. Hedwig, N 35° 55′ W. 3° 16′	30.40	772.1	58.1	14.5	85	ene.			4		0			0	0			clear.
Bk. Heinrich & Tonio, N. 45° 17′, W. 31° 30′ *†	30.16	766.1	60	15.6	91	se.			4		10		se.	10 h'r	10 h'r	mod.	se.	rainy.
Bk. Hattie G. McFarland, Ship Island, Miss						nnw.			2		fg.			2 h'r	2 h'r			foggy.
S. Henry, N, 42° 05′, W. 39° 35′*	29.80	756.9	59.2	15.1		wnw.			4–5		10					5	var.	cloudy.
Bk. Idaho, N. 34° 17′, W. 70° 00′ *†	30.00	762.0				ssw.			0		8		w.	4 h'r	4 h'r	r'gh	ssw.	cloudy.
Bg. John Wesley, Havana, Cuba, W I						se.			1		0			0	0			clear.
Schr. John L. Thomas, Hobbies Cays, C. A†	29.96	761.0	77	25.0	86	e.			3		1		ese.	1 h'r	1 h'r	mod	ene.	clear.
Bg. L & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.04	763.0				e.			1		2		e.	1 h'r	1 h'r	sm'h		clear.
S. S. Laurel, Egmont Key Light, Fla†	30.14	765.5	68	20.0		sse.			1–2		fg.			0	0			foggy.
S. S. Madrid, N. 39° 47′, W. 9° 23′	30.43	772.9	53	11.7	80	e.			4		0			0	0	sm'h		clear.
S. S. P. de Satrastegui, Havana, Cuba, W. I	30.10	764.5				calm			0		3			0	0			clear.
Bg. Rising Sun, N. 33° 30′, W. 68° 30′†	30.00	762.0	65	18.3		ssw.			5		9		ssw.	light	light	long	ssw.	squally.
Bk. Rosalie, N. 31° 32′, W. 37° 56′*†	30.01	762.2				nw.			6		2		nw.	1 h'r	1 h'r	high	nnw.	clear.
S. Salisbury, N. 33° 00′, W 25° 03′	30.02	762.6	67.5	19.7	92	ssw.			4		4 k		ssw.	2½h'r	2½h'r	rg'h	var.	fair.
Bk. Tuck Sing, N. 21° 57′, W. 80° 28′						calm			0		0			0	0	sm'h		clear.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.87	758.7	78	25.6	78	nnw.			3–4		2		w.			sm'h		hazy.
U. S. S. Pinta, Pernambuco, Brazil	30.08	764.0	80	26.7	82	ese.			2		2		ne.					clear.
H. M. S. Amethyst, Maldonado Bay, Uruguay	29.80	756.9	81	27.2	91	nnw.			6		4	sw.				2	nw.	misty.
H. M. S. Boadicea, S. 16° 54′, W. 3° 58′	30.03	762.7	76	24.4		se.			3		5	se.				2	ese.	d. clouds.
H. M. S. Opal, Elephant Bay, Benguela	29.90	759.4	79	26.1	86	nnw.			1		4	wsw.						d. clouds.
H. M. S. Tyne, S 11° 02′, W. 11° 26′	30.05	763.3	80	26.7	74	ese.			2		2					1	ese.	misty.
H. P. M. S. Tejo, S. 5° 31′, E. 12° 18′	30.17	766.2	80.6	27.0	92	sw.			2		3			0	0	2	w.	blue sky.
S. S. Sirius, Santos, Brazil	30.15	765.8				calm			0		0			0	0			clear.
Bg. Daphne, S 2° 16′, W. 34° 08′*†	29.96	761.0	82	27.8	74	se.			3		3		var.	0	0	sm'h	se.	clear.
Bk. Horace Scudder, S. 8° 30′, E 9° 44′ *†	30.09	764.3	80	26.7		calm			0		2		ssw.	0	0	light	s.	clear.
Bkt. Levanter, S. 8° 48′, W. 34° 32′*	30.11	764.8	82	27.8		ese			4		2		ese.	0	0	mod.	ese.	fine.
S. Parker M. Whitmore, S 2° 58′, W. 27° 39′ *†	29.99	761.7	82	27.8		se.			5		3		ese.	sh'rs	sh'rs	sh't	se.	clear.
S. St. David, S 51° 17′, W 47° 21′ *†	29.48	748.8	50.3	10.2	86	nw.			4		fg.			2 h'r	2 h'r	light	var.	dense fog.
S. David Stewart, Pernambuco, Brazil †	30.82	757.4	85	29.4		se.			3		2		se.	0	0			
Bk. Godeffroy, S. 54° 59′, W. 55° 57′	28.92	734.6	46.2	7.9	94	n.			4		9			10 h'r	10 h'r	mod.	var.	drizzling.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.93	760.2	36.5	2.5	51	n.			2		0			light	light			clear.
U. S. S. Adams, Sitka, Alaska†	30.04	763.0	43	6.1	100	e.			2		10					long		heavy rain.
U. S. S. Alert, N. 15° 36′, W. 173° 30′	29.91	759.7	76	24.4	91	n.			4		2?		n.				wnw.	cloudy?
U. S. S. Essex, Canton, China	30.18	766.6	68	20.0	79	s.			2		2							clear.
U. S. S. Juniata, Shanghai, China	30.48	774.2	42	5.6	74	e.			1		8			0	0			cloudy.
U. S. S. Monocacy, Shanghai, China	30.50	774.7	40	4.4	82	ene.			2		0							clear.
U. S. S. Ranger, La Union, Honduras	29.99	761.7	77	25.0	82	ene			2		2			0	0			fair.
U. S. S. Richmond, Shanghai, China	30.48	774.2	45	7.2	85	ene.			2		5		ene.	0	0			fair.
H. M. S. Audacious, Hong Kong, China			65	18.3	89	e.			2		2	e.						blue sky.
H. M. S. Cleopatra, off Amoy, China	30.22	767.6	62	16.7	77	nne.			5		0					short		blue sky.
H. M. S. Champion, Woosung, China	30.50	774.7	47	8.3		calm			0		0							blue sky.
H. P. M S. Tamega, Macao, China	30.24	768.0	65.8	18.8	78	ese.			3–5		0			0	0			blue sky.
S. S. Newbern, N. 23° 06′, W. 107° 50′*†	29.96	761.0	72	22.2	71	ne.			2		5		n	0	0	small	nnw.	fair.
S. S. Oceanic, Yokohama, Japan			48	8.9	78	calm			0		3		wnw.	0	0	sm'h		clear.
S. S. Oregon, San Francisco, Cal.†	30.06	763.5	45	7.2	84	calm			0		0							hazy.
S. S. Alameda, San Francisco, Cal. †	30.04	763.0	43	6.1	83	sw.			2		1		sw.	0	0			clear.
S. S. Ancon, San Francisco, Cal†	29.98	761.5	44	6.7	68	se.			1		0			0	0			clear.
S. S. City of Chester, San Francisco, Cal†	30.09	764.3	43	6.1	67	sw.			2		0							
S. S. Orizaba, N. 34° 35′, W. 120° 40′†	29.93	760.2	53	11.7	80	nw.			5		0			0	0	mod.	nw.	clear.
S. S. Queen of the Pacific, San Francisco, Cal. †	30.03	762.7	44	6.7	92	ene.			1		0			0	0			clear.
S. S. State of California, N. 42° 08′, W. 124° 30′ †	30.12	765.0	46	7.8	69	nne.			3		0					sm'h	nw.	clear.
S. S. City of Pekin, N. 44° 00′, E. 171° 43′			37	2.8	71	w.			6		8		wnw.			mod.	n.	squally.
S. S. Colima, N 25° 21′, W 112° 49′ †	29.95	760.7	64	17.8	62	wnw.			4		10		wnw.	0	0	small	wnw.	cloudy.
S. S. Granada, Acajutla, San Salvador			77	25.0	86	calm			0		0			0	0	light		clear.
Bk. Alpheus Marshall, N. 4° 39′, E 164° 58′ *†	29.65	753.1	82	27.8	87	ne.			5		10		ne.	0	0	mod.	var.	cloudy.
S. S. Benalder, N. 7° 30′, E. 108° 15′ *	30.01	762.2	77	25.0	77	nne.			5		0		nne.	0	0	high	nne.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 20° 39′, W. 82° 23′	29.95	760.7	71	21.7	95	se.			2		10			0	0	sm'h	s.	cloudy.
U. S. S. Iroquois, Talcahuano, Chili	29.96	761.0	59	15.0	82	ssw.			2		0					sm'h		clear.
U. S. S. Lackawanna, S. 21° 15′, W. 77° 00′	29.92	760.0	69	20.6	75	sse.			1–2		10		se.			sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru *†	30.00	762.0	69	20.6	75	se.			1		0					mod.	w.	clear.
H. M. S. Wachusetts, Callao, Peru*	29.96	761.0	69	20.6	90	se.			1		0					sm'h		clear.
H. M. S. Diamond, S. 41° 39′, E. 149° 30′	29.74	755.4	55	12.8	74	ssw.			2–4		10	sw.				5	s.	squally.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.28	743.7	64	17.8	89	nw.			6		9					2	w.	raining.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.82	757.4	65	18.3		nnw.			2							2	nnw.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.66	753.4	51	10.6	100	sw.			1		7							d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.07	738.4	49.7	9.8	81	calm			0		9	calm						d. clouds.
S. S. Australia, S. 34° 08′, W. 164° 01′	29.60	754.1	68	20.0		sw.			4		6		sw.	0	0	r'gh	sw.	fair.
S. S. City of Sydney, S. 5° 19′, W 167° 23′*†	29.81	757.2	80	26.7	82	nne.			2		2 k		nne.			light	ne.	clear.
S. S. George S Homer, S. 31° 15′ W. 122° 27′ *†	30.12	765.0				w.			3		2		wsw	6 h'r	6 h'r	short	ssw.	clear.
S. Ismir, S. 19° 52′, W. 72° 26′*	30.21	767.3				calm			0		7		calm	0	0	long	ssw	cloudy.
S. St. Francis, S. 30° 20′, W. 83° 30′*†	30.25	768.3	69	20.6	65	se.			2		1		sse.	0	0	long	sw.	clear.
S. Grecian, S 27° 46′, W. 12° 08′	30.08	764.0	79	26.1	74	nw.			4		3		nw.	1 h'r	1 h'r	long	s.	clear.
S. Henry Failing, S. 32° 50′, W. 126° 15′*†	29.97	761.2	70	21.1	95	sw.			1		10		sw.	0	0	sm'h	w.	cloudy.
H. M. S. Espiegle, S. 45°, 49′, E. 170° 39′	28.67	728.2	50	10.0	65	ssw.			4		9							squally.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Hellville, Nossi Be Id., Africa	29.81	757.2	84	28.9	79	nw.	9	4.0			8		n.	0.20	5.1	sm'h		cloudy.
U. S. S. Pensacola, S. 17° 33′, E. 55° 12′*	29.78	756.4	82	27.8	79	se.			3		2		se.	h'vy	h'vy	long	se.	clear.
H. M. S. Coquette, N. 15° 30′, E. 39° 24′	30.04	763.0	84	28.9	71	e.			1		0					sm'h		blue sky.
H. M. S. Euryalus, Suakin, Egypt	29.94	760.5	79	26.1	91	e.			2		0							blue sky.
H. M. S. Orontes, S. 5° 12′, E. 42° 28′	29.93	760.2	80	26.7	100	ne.			4		4	ne.				2	nne.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.90	759.4	82	27.8	83	sse.			2									d. clouds.
S. S. Woodlark, N. 28° 50′, E. 32° 57′	30.04	763.0	66	18.9	50	nw.			3–5		4	unw.				3	n.	misty.
S. S. Galatia, N. 8° 05′, E. 74° 49′†	29.92	760.0	80	26.7	96	ene.			2		1		nne.	0	0	long	ne.	clear.
S. S. Port Phillip, N. 1° 45′, E. 65° 49′*	29.90	759.4	81	27.2		ne.			4							mod.	ne.	clear.
S. Radnorshire, N. 5° 52′, E. 95° 05′*†	29.92	760.0				ene.			4		1		ene.	0	0	mod.	ene.	clear.
S. Carondelet, S. 13° 03′, E. 120° 15′ *†	29.46	748.3				wnw.			9		0			14 h'r	14 h'r	h'vy	wnw.	raining.
S. Lepanto, Bombay, India	29.98	761.5				ne.			1		10?		ne.	2 h'r	2 h'r			clear?
H. M. S. Magpie, N. 7° 30′, E. 98° 19′	29.91	759.7	81.5	27.5	71	sw.			2		0							blue sky.

International Chart I. January 15, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 16, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.35	771.0	61.2	16.2	83	w.			1		0			0	0	clear	Roziere.
Algiers			30.35	771.0	52.9	11.6	94	n			2		9			0.102	2.6	covered	Aubert.
La Calle			30.19	766.8	58.6	14.8	76	ne.			5		4			0.394	10.0	cloudy	Fonfrède.
Tunis			30.07	763.7	54.0	12.2	65	ne.			4		2			0.205	5.2	fair	Delord.
Tebessa					49.6	9.8	66	e.			5		5			0.039	1.0	cloudy	Hans.
Geriville					48.2	9.0	36	ne.			3		0?			0	0	fair?	Forfert.
Laghouat			30.37	771.5	54.3	12.4	77	nne.			1		0?			0	0	fair?	Abraham.
Biskra			30.30	769.5	53.6	12.0	61	n.			2		0?			0	0	fair?	Gouson.
Australian.																			
Adelaide, South Australia			29.95	760.7	60.7	15.9	60	calm	0	0			10 s					light rain	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.61	752.1	29.80	756.9	53	11.7	73	ssw.			2		3		s.	0	0	clear	Com. I. Short, R.N.
Melbourne, Victoria	29.82	757.4	29.91	759.7	59.4	15.2	61	s.	5	2.2			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.65	753.2	30.23	767.8	37.4	3.0	51	nw.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.28	743.7	30.08	764.1	33.8	1.0	94	w.	7.4	3.3			10			0.004	0.1		Dr. Wierzbiski
Eperies	29.15	740.3	30.08	764.0	34.9	1.6	69	calm			0		10 ks			0	0		Julius Mikolik.
Gratz	28.92	734.5	30.22	767.6	37.0	3.3	55	ene.			2		3			0	0		Andreas Rospini.
Hermannstadt	28.61	726.8	30.12	765.1	30.6	— 0.8	94	n.			2		10			0.008	0.2		Prof. A. Gottschling
Kremsmunster, Obs'y	28.94	735.0	30.34	770.6	37.0	2.8	75	w.			3		10			0.067	1.7	raining	The Staff.
Lemberg	28.97	735.7	29.99	761.8	33.4	0.8	83	nw.			5		10			0.169	4.3		Dr. T. Stanecki.
Pola	30.13	765.3	30.24	768.2	46.9	8.3	75	wnw.			2		0			0	0		I. R. Hydrographic Office.
Szathmar	29.61	752.0	30.10	764.4	30.2	— 1.0	88	n.			2		6			0.028	0.7		Joseph Midlinszky, S. J
Szegedin	29.85	758.2	30.15	765.7	35.6	2.0	75	nw.			1		0			0	0		Karl Stancel.
Trieste	30.18	766.5	30.28	769.0	45.3	7.4	68	calm			0		0			0	0		Royal Academy.
Vienna	29.48	748.9	30.22	767.7	42.1	5.6	74	w.			3		10			0.004	0.1		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.70	731.3	30.21	767.4	43.3	6.3	99	nw.			0.1		2			0.008	0.2		
Brussels	30.38	771.6	30.59	776.9	45.7	7.6	95	w.			3		10		wnw.	0	0		
Furnes	30.57	776.4	30.59	776.9	46.2	7.9	91	nw.			0.1		8			0.004	0.1		
Maeseyck	30.41	772.4	30.54	775.6	47.7	8.4	92	nw.			1		10			0.012	0.3		
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			30.65	778.5	41.9	5.5	93	w.	2	0.9			10					misty	John Hartnup.
Bolton, Sharples	30.06	763.5	30.61	777.5	42.8	6.0	98	ene.					10					misty	Thomas Mackereth.
Bradford, Yorkshire	30.20	767.1	30.60	777.2	46.6	8.1	86	nw.			2		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.09	764.3	30.11	764.8	80	26.7	70	ne.			3		2					blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	30.52	775.2	30.64	778.2	42.0	5.6	96	nw.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	30.46	773.7	30.64	778.2	41.1	5.1	96	calm			0		9					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.42	772.7	30.66	778.7	47.0	8.3	85	nw.			1		10					overcast	The Staff.
Fort Napier, Natal	27.65	702.3	29.96	761.0	65.5	18.6	84	se.			1		10					overcast	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.71	754.6	29.94	760.5	87	30.6	55	s.			3		5					d. clouds	J. W. Smith.
Galway, Queen's College	30.54	775.7	30.58	776.7	43	6.1	92	s.			1		10			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.32	770.1	30.38	771.6	62.0	16.7	88	e			2		4					d. clouds	Sgt. F. Norris, A.H.C.
Greenwich, Royal Obs'y	30.46	773.7	30.64	778.2	39.8	4.3	100	wsw.			1		10					foggy	The Staff.
Guernsey	30.35	770.9	30.66	778.7	47.0	8.3	88	nne.			1		10					overcast	A. Coltenette, F.R.M.S.
Kew, Observatory	30.61	777.5	30.65	778.5	40.5	4.7	99	nnw.	2	0.9			10					foggy	The Staff.
Leicester, Museum	30.37	771.4	30.63	778.0	45.2	7.3	61	nw.			1		7					overcast	J. C. Smith.
Malta, Mediterranean	29.88	758.9	29.96	761.0	51.6	10.9	69	ne.			2		9			0	0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.20	767.1	30.25	768.3	72.0	22.2	85	ne.			2		8					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.42	772.7	30.64	778.2	43.3	6.3	92	nw.			1		10					misty	The Staff.
Plymouth	30.57	776.5	30.64	778.2	45.7	7.6	88	calm			0		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.26	768.6	30.36	771.1	47.5	8.6	89						10					drizzling	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.86	758.4	29.93	760.2	37.2	2.9	92	nne.			3		10					drizzling	W. H. Lyne.
Sheffield	30.33	770.4	30.62	777.7	49.0	9.9	72	wsw.			1		5			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.57	776.5	30.60	777.2	43.0	6.6	98	w.			2		10			0.018	0.5	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.63	778.0	43.1	6.2	96	w.	10	4.5			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					42.6	5.9	98	calm			0		10					foggy	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.53	775.4	30.55	776.0	47.9	8.8	89	se.	13	5.8			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.58	751.3	29.97	761.2	50.0	10.0	58	nw.	10.6	4.7		1 c	6 k		nw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.15	765.8	30.19	766.8	—28.0	—33.3		calm	0	0		5 c	0			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.10	764.5	30.15	765.8	—11	—23.9	86	nw.	6	2.7		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.14	765.5	30.22	767.6	—32	—35.6	100	w.	2	0.9		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.05	763.3	30.27	768.8	— 7.0	—21.7	94	nw.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.15	765.8	30.21	767.3	—18.0	—27.8		w.			2	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.12	765.0	30.15	765.8	—20	—28.9	100	s.	3	1.3			8 s		s.	inap.	inap.	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.16	740.7	30.10	764.5	— 3	—19.4	100	s.	22	9.8			10 n			0	0	fair	James Stewart.
Fredericton, N. B.	30.21	767.3	30.29	769.4	—28.9	—33.8	100	calm	0	0		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.18	766.6	30.24	768.1	0	—17.8	100	n.	14	6.3		c	8 ks		n.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	29.24	742.7	30.50	774.7	— 4.7	—20.4	93	sw.	2	0.9			10 n			inap.	inap.	overcast	Jas. Grant.
Halifax, N. S*	30.04	763.0	30.19	766.8	1	—17.2	91	calm	0	0		0	2 s		nw.	0	0	fair	A. Allison.
Hamilton, Ontario	29.95	760.7	30.41	772.4	6.7	—14.1	62	w.			1	4 ck	0	sw.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.97	761.2	30.35	770.9	— 2	—18.9	72	calm	0	0			10 k		calm	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.								nw.	3	1.3		4 k	0	nw.		0	0	d clouds	C. H. Rigby.
London, Ontario	29.46	748.3	30.49	774.4	— 2.0	—18.9	78	calm			0	0	0			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T.	27.72	704.1	30.12	765.0	24	— 4.4	96	s.	8	3.6		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T.	27.90	708.6	30.00	762.0	8	—13.3	96	w.	12	5.4			10 ks		w.	0	0	cloudy	Rev. J. M. Wellwood
Montreal, Quebec*	30.07	763.8	30.31	769.9	—11	—23.9	82	w.	12	5.4			10 s		w.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.05	763.3	30.32	770.1	—24.6	—31.4	100	nw.				0	0			0	0	blue sky	A. McCill, M. A.
Parry Sound, Ontario*	29.55	750.6	30.33	770.4	— 1	—18.3	72	w.	0	0		5 k	5 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.52	749.8	30.30	771.1	1.5	—16.9	63	sw.			1	3 c	2 ks	w.		0	0	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.48	748.8	30.28	769.1	— 6	—21.1	73	w.	2	0.9		0	0			0	0	hazy	W. P. Cooke.
Port Dover, Ontario	29.68	753.9	30.46	773.7	3	—16.1	100	w.	6	2.7		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.75	755.6	30.49	774.4	2	—16.7	91	w.	5	2.2		0	0			0	0	clear	M. Payne.
Qu Appelle, N. W. T	27.63	701.8	30.05	763.3	15	— 9.4		w.	8	3.6			10 n		calm	0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.87	758.7	30.29	769.4	—20	—28.9	64	calm	0	0		5 cs	0	w.		0	0	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	29.77	756.1	30.34	770.0	—20	—33.9	100	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B.	30.18	766.6	30.23	767.8	—10	—23.3	90	nnw.	1	0.4		0	0			0	0	clear	
St. John, N. B	30.09	764.3	30.26	768.6	—11.0	—23.9	73	nw.	8	3.6		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F.																0	0		J. Higgins.
St. Pierre, N. F.			29.92	760.0	26.6	— 3.0		nw.			2					0	0		The Commandant.
Saugeen, Ontario*	29.56	750.8	30.34	770.6	12	—11.1	91	w.	24	10.7			10 s			0.02	0.5	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
Stratford, Ontario	29.02	737.1	30.46	773.7	1.2	—17.1	88	w.	1	0.4		0	8 ks			0	0	d. clouds	W. Mc Bride, M. A.
Sydney, C. B*	30.02	762.5	30.09	764.3	— 1	—18.2	91	w.	4	1.8		2 c	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.98	761.5	30.41	772.4	7	—13.9	91	w.	6	2.7			10 ks		nw.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.30	744.2	30.51	774.9	— 2.2	—19.0	100	sw.	7	3.1		0	0			0	0	blue sky	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.13	765.3	30.20	767.1	11	—11.7	70	ne.	5	2.2		0	8 k		ne.	0	0	fair	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	30.12	765.0	30.15	765.8	71.0	21.7	85	sw.				0	7 ks			0.010	0.3	stormy	I. Garfelt.
Cape Town, The Castle																			Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4			82	27.8	33									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.86	758.4	29.94	760.4	63.0	17.2	90	n.			2	10	0					cloudy	Samuel Redolez.
Iquique	29.89	759.2	29.92	759.9	71.2	21.8	78	sw.			2	6 c	0					foggy	Rafael Moreno.
Niebla	29.51	749.6	29.62	752.3	59.4	15.2	66	e.			3	2 c	0	w.		0	0	fair	Federico Köhling.
Punta Caldera	29.84	757.8	29.92	760.0	71.6	22.0	88	se.			1	4 c	0	se.				fair	Manuel Tobar.
Punta Corona	29.84	758.0	30.03	762.7				ne.			2	10	0			0	0	cloudy	Francisco Alvarado.
Valparaiso	29.68	753.8	29.82	757.3	65.1	18.4	79	e.				5	0					fair	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.30	769.6	30.32	770.2	42.8	6.0	90	nw.	5.6	2.5			7			0.102	2.6		M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.04	762.9	30.08	764.1	43.3	6.3	88	nw.	13	6			0						Oversergent Fischer.
Fanöe	30.25	768.3	30.27	768.8	44.4	6.9	88	nw.			6		3						Overloerer Lauridsen.
Godthaab, Greenland	29.08	738.6	29.12	739.7	9.1	—12.7	84	n.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.17	740.8	29.21	741.9	45.3	7.4	85	se			8		10					raining	A. O. Thorlacius.
Thorshavn	30.08	764.1	30.11	764.7	46.4	8.0	93	w.	27	12			10					raining	Overloerer Bergh.
Vestervig	30.11	764.7	30.20	767.1	43.9	6.6	99	wnw.			6		6						Loerer Oesternoi.
EGYPTIAN.																			
Cairo	30.00	761.9			58.1	14.5		s.	6.9	3.1		0	0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.93	760.3	30.60	777.3	48.2	9	86	nne.			1		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	30.10	764.4	30.65	778.4	46.0	7.8	94	nne.			1		10 n		ssw.	0	0	covered	M. Nicot, Director.
Arras, Normal School			30.55	776.0	47.5	8.6	84	nw.			1		2		n.	0.004	0.1	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	30.26	768.6	30.34	770.6	51.8	11	59	nnw.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.01	762.3	30.59	776.9	46.0	7.8	77	e.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.36	771.2	30.64	778.2	48.4	9.1	71	nne.			1		2			0	0	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	29.60	751.8	30.52	775.3	45.3	7.4	91	ene.			1		n			0.024	0.6		M. Gobin, Director.
Bordeaux, Observatory	30.28	769.0	30.54	775.8	48.7	9.3	70	ene.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	30.01	762.3	30.58	776.8	45.5	7.5	94	n.			1				n.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	30.44	773.2	30.69	779.4	46.0	7.8	91	e.			1		10		e.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.50	774.7	30.58	776.7	50.4	10.2	100	n.			1		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.25	768.3	30.58	776.8	46.2	7.9	91	w.			1		5			0.031	0.8	cloudy	M. Jadot, Director.
Charleville, Normal School	30.06	763.5	30.58	776.7	47.1	8.4	80	n.			1		0			0	0	clear	M. Noël, Director.
Clermont-Ferrand Obs'y	29.15	740.4	30.56	776.3	42.4	5.8	88	n.			1		10			0.083	2.1		M. Alluard, Director.
Cluny, Normal School	29.69	754.0	30.57	776.4	42.8	6	85	ne.			1		10		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.69	754.1	30.57	776.4	45.5	7.5	89	nw.			1		5 ns	nw.	nw.	0.004	0.1	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.76	705.1	30.35	771.0	43.7	6.5	52	n.			2	2 c			se.	0	0		M. Jarach, Director.
Grésaque, du Rhone	29.16	740.7	30.30	769.7	54.1	12.3	56	nw.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.69	754.0	30.48	774.3	44.2	6.8	65	e.			1		kn			0	0		M. Ablard, Director.
Guéret, Normal School	28.98	736.0	30.63	778.0	41.0	5	69	nw.			1		n		nw.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Poilpre, Director
Lescar, Normal School	29.93	760.2	30.54	775.8	51.4	10.8	58	ene.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.56	776.2	30.66	778.8	46.8	8.2	70	e.			1		10		e.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.40	746.8	30.50	774.7	45.0	7.2	86	n.			4		8 n		n.	0	0	very cloudy	M. André, Director.
Mans, Normal School	30.33	770.4	30.65	778.5	45.5	7.5		ne.			1		10			0	0	covered	M. Richard, Director.
Marseille, Observatory	30.01	762.2	30.28	769.1	57.2	14.0	43	nw.			0–1		2		nnw.	0	0		M. Stephan, Director.
Montlouis	25.08	637.1	29.93	760.1	43.7	6.5	47	e.	13.0	5.8			0			0	0		M. Cave tor Dr. Fines.
Montpellier, Normal School	30.21	767.2	30.31	769.9	57.9	14.4	63	n.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.77	756.1	30.57	776.5	46.8	8.2	89	nw.			1		kn			0	0		M. Hasse, Director.
Nantes, Observatory	30.49	774.5	30.65	778.6	46.9	8.3	86	nne.			0–1		10 n		ne.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.29	769.4	30.41	772.3	56.1	13.4	38	n.	18.6	8.3			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.45	544.8			26.1	— 3.3		ene.			2		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.32	744.8	30.42	772.6	49.6	9.8	62	n.			4		n	n.	n.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.48	647.1			28.9	— 1.7	100	ene.			4		10			0.213	5.4		M. Alluard.
Rochefort, Naval Obs'y	30.57	776.4	30.60	777.2	45.3	7.4	77	ne.			4		5		ne.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.31	769.8	30.53	775.4	46.0	7.8	89	n.			1		5		ne.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.26	717.9	30.47	773.9	45.1	7.3		nw.			1		1		se.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.59	776.9	30.63	778.1	48.2	9	86	n.			1		0			0	0	clear	M. Mouillot, Dir.
St. Lô, Normal School			30.52	775.3	46.8	8.2	88	n.			1		10	n.	n.	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.45	773.5	30.62	777.7	48.9	9.4	77	nne.			1				n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.79	756.7	30.52	775.3	47.8	8.8	72	nnw.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.44	773.1	30.61	777.6	43.9	6.6	91	n.			1					0	0	misty	M. de Tastes.
Versailles, Observatory	30.15	765.9	30.65	778.4	47.8	8.8	78	n.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.40	772.1	30.55	775.9	49.5	9.7	79	s.	5.8	2.6			5 k		ne.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.95	735.3	30.46	773.6	41.7	5.4	86	nw.			4		10	nw.		0.126	3.2		Prof. Jnedt.
Bamberg	29.50	749.3	30.35	771.0	43.3	6.3	64	w.			3		7 k		w.	0.098	2.5		Prof. Dr. Hoh.
Berlin	30.04	762.9	30.19	766.7	43.9	6.6	85	nw.			3		10			0.024	0.6		Meteorological Institute
Breslau	29.56	750.8	30.09	764.3	40.3	4.6	96	wnw.			4		10			0.008	0.2		Royal University Obs'y
Carlsruhe	30.04	763.0	30.52	775.2	44.6	7.0	91	sw.			1		10	nw.		0.043	1.1	light rain	Albert Seitz.
Cassel	29.65	753.2	30.37	771.3	46.0	7.8	83	nw.			4		10	nw.		0.102	2.6		Dr. H. Möhl.
Frankfort-on-the-Main	30.08	764.0	30.46	773.7	47.3	8.5	84	wnw.			1		8			0	0		Physical Society.
Friedrichshafen	29.04	737.5	30.52	775.1	40.6	4.8	90	sw.			2		10	sw.		0.102	2.6		Wilhelm, Chief Tel.
Hamburg	30.21	767.3	30.30	769.6	45.1	7.3	88	nw.			6		10			0.012	0.3	hazy	E. Preiter.
Kiel	30.21	767.4	30.27	767.8	45.7	7.6	85	nw.			2		10			0.024	0.6		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.85	758.2	30.28	769.2	45.7	7.6	83	nw.			3		9	wnw.		0.098	2.5		H. Leppig, Asst.
Magdeburg	30.09	764.2	30.28	769.1	46.6	8.1	82	wnw.			4		7			0.024	0.6		Weather Observatory.
Memel	29.82	757.4	29.87	758.6	39.9	4.4	71	n.			4		5 s						Issermann.
Munich	28.57	725.6	30.46	773.6	36.7	2.6	91	w.			2		10	w.		0.240	6.1	light rain	Central Station.
Neufahrwasser	29.89	759.1	29.90	759.5	41.0	5.0	86	nw.			3		0			0	0		A. Lothes.
Neustadt, Palatinate	29.92	759.9	30.45	773.5	48.0	8.9	77	w.			3		9	w.		0.024	0.6		Dicknether.
Stuttgart	29.50	749.3	30.43	772.8	44.6	7.0	88	w.			1		10			0.035	0.9		Prof. Dr. Schoder.
Wustrow	30.11	764.7	30.13	765.3	41.0	5.0	94	wnw.			4		8 s			0	0	dense fog	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.58	751.2	29.97	761.3	46.0	7.8		n.			0.5	0	7 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	30.04	763.0	30.09	764.4	70.7	21.5	35	nne.	34.0	15.2			0					drizzling	
Deesa	29.49	749.1	29.98	761.4	73.8	23.2	26	nne.	7.0	3.1			10	ne.	ne.	0	0	overcast	
Bombay	29.91	759.6	29.94	760.6	73.6	23.1	61	nw.	14.0	6.3			0			0.03	0.8	blue sky	
Poona, Yarrowda	28.04	712.3	29.95	760.6	66.3	19.1	60	se.	11.0	4.9			5	sw.	sw.	0.09	2.3	d. clouds	
Belgaum	27.37	695.2	29.95	760.8	67.3	19.6	47	wsw.	5.0	2.2			4	w.	s.	0.18	4.6	d. clouds	
Lahore	29.34	745.3	30.11	764.9	65.6	18.7	54	calm	0	0			0			0	0	blue sky	
Roorkee	29.13	739.9	30.06	763.5	64.8	18.2	49	w.	2.0	0.9			2			0	0	blue sky	
Agra	29.47	748.6	30.06	763.5	64.3	17.9	70	e.	2.0	0.9			10		e.	0.07	1.8	overcast	
Nagpur	28.91	734.2	29.99	761.7	63.0	17.2	81	s.	15.0	6.7			10			0.03	0.8	raining	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.59	726.2	29.99	761.7	64.6	18.1	65	w.	0.9	0.4			9		se.	0	0	gloomy	
Lucknow	29.65	753.1	30.04	763.0	68.3	20.2	49	ene.	1.0	0.4			2	e.		0	0	d. clouds	
Allahabad	29.68	753.8	30.00	761.9	69.7	20.9	53	calm	0	0			8	sw.		0	0	d. clouds	
Patna	29.86	758.3	30.05	763.2	67.2	19.6	62	nw.	4.2	1.9			2	nw.	nw.	0	0		
Hazaribagh	27.95	710.0	30.02	762.5	65.6	18.7	42	e.	2.0	0.9			0			0	0	blue sky	
Cuttack	29.98	761.5	30.06	763.6	71.3	21.8	60	ese.	1.0	0.4			8			0	0	d. clouds	
Calcutta, Allipore	30.00	762.1	30.02	762.6	65.9	18.8	64	calm	0	0			0			0	0	blue sky	
Dhubri	29.92	760.1	30.05	763.2	66.4	19.1	57	e.	4.6	2.1			0			0	0	blue sky	
Chittagong	29.95	760.6	30.04	763.0	67.1	19.5	64	nne.	2.6	1.2			4			0	0	d. clouds	
Sibsagar	29.73	755.2	30.09	764.2	57.6	14.2	81	ne.	1.0	0.4			0			0	0	blue ssy	
Jeypore	28.58	726.0	30.09	764.2	61.7	16.5	73	ene.	6.1	2.7			10	ene.	ne.	0.06	1.5	overcast	
Zanzibar	29.84	757.8	29.86	758.4	80.8	27.1	71	ene.	10.1	4.5			1			0	0	d. clouds	
Bellary	28.42	721.9			77.0	25.0	43	se.	4	1.8		5	4 n		se.	0	0	gloomy	
Trichinopoly	29.70	754.4			82.1	27.8	58	ne.	0.2	0.1		5	5			0	0	overcast	
ITALIAN.																			
Udine	29.83	757.6	30.25	768.4	45.1	7.3	33	calm	0	0			0			0	0		Prof. Giovanni Olodig.
Milan	29.71	754.7	30.25	768.4	41.4	5.2	60	nw.	3.1	1.4			4	nw.		0	0		Prof. G.V.Schiapparelli
Padua	30.12	765.1	30.24	768.0	38.5	3.6	40	calm	0	0			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.31	744.5	30.26	768.5	44.8	7.1	48	nne.	1.3	0.6			0			0	0		Prof. F. F. Denza.
Genoa	30.06	763.6	30.26	768.6	53.6	12.0	62	calm	0	0			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.20	767.0	30.25	768.3	42.4	5.8	67	w.	4.9	2.2			7	ne.		0	0		Prof. Luigi Guidi.
Florence	29.95	760.7	30.21	767.4	39.7	4.3	68	ne.			2		0			0	0		Prof. Costantino Pittei
Leghorn	30.10	764.5	30.19	766.7	48.9	9.4	45	ne.	3.8	1.7			3			0	0		Prof. P. Monte.
Rome	29.98	761.6	30.17	766.2	51.6	10.9	29	n.	13.6	6.1			3			0	0		Prof. P. Tacchini.
Lecce	29.74	755.5	30.01	762.2	48.6	9.2	37	ene.	21.0	9.4			4	ne.		0.031	0.8		Prof. C. de Giorgi.
Cosenza	29.12	739.6	30.04	763.1	40.3	4.6	68	wnw.	3.8	1.7			9	w.		0.012	0.3		Prof. D. Conti.
Cagliari	30.00	762.1	30.20	767.1	55.4	13.0	46	calm			0		0			0	0		Prof. A. Pacinotti.
Palermo	29.81	757.1	30.06	763.6	50.0	10.0	98	n.	11.2	5.0			9	nne.		0.075	1.9		Prof. G. Cacciatore.
Syracuse	29.87	758.7	29.91	759.8	51.3	10.7	62	n.	9.4	4.2			8	nne.		0.020	0.5		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.67	753.7	30.22	767.6	44.4	6.9	57	nw.	4.9	2.2			6	nne.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.07	763.7	30.10	764.6	22.8	— 5.1	59	n.			4		10 n			0.697	17.7	snowing	H. Hattori.
Awomori	30.01	762.2	30.04	763.0	18.1	— 7.7	83	ssw.	13.3	5.9		0	6 n		w.	0.052	1.3	light snow	K. Ogawa.
Hakodate	29.99	761.7	30.00	762.0	22.4	— 5.3	63	w.	13.8	6.2		3 cs	0			0	0	clear	Y. Souma.
Hamamatsu	30.01	762.2	30.11	764.7	36.6	3.7	66	w.			6		10 s			0	0	overcast	Sekigawa & Yamasaki.
Hiroshima, I. M. Obs'y	30.20	767.1	30.22	767.5	35.2	1.8	80	ne.	2.9	1.3		1 ck	0			0	0	clear	Y. Okamoto.
Kagoshima	30.24	768.1	30.25	768.4	43.0	6.1	72	n.			2		10 s			0	0	overcast	
Kanazawa	30.10	764.6	30.21	767.4	30.0	— 1.1	85	ene.	7.3	3.2		0	8 n			0.192	4.9	snowing	S. Endo.
Kioto	30.00	762.1	30.18	766.5	35.1	1.7	81	n.	0.1	0.04		0	3 sck			0	0	clear	M. Tojima.
Kochi	30.17	766.3	30.19	766.8	42.6	5.9	66	nw.	4.9	2.1			10 s			0	0	overcast	K. Kusunose.
Miasaka	30.19	766.8	30.22	767.5	44.3	6.8	61	wnw.			2		10 s		w.	0	0	overcast	K. Masusaki.
Miyako	29.90	759.6	30.02	762.4	19.2	— 7.1	64	wsw.	1.5	0.6		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.03	762.7	30.25	768.3	38.3	3.5	82	calm	0	0		0	2 s			0.220	5.6	clear	
Nemuro	29.67	753.6	29.72	754.9	26.0	— 2.8	79	sw.	15.0	6.7			10 s			0	0	cloudy	A Shibuya.
Niigata	30.12	765.0	30.16	766.0	31.8	— 0.1	94	w	12.3	5.4		0	7s;ks			0.025	0.6	cloudy	Satoo & Tomikawa.
Nobiru	30.03	762.7	30.04	763.1	26.0	— 3.3	93	nnw.	13.6	6.1		0	0			0	0	clear	Yoslino & Midzushina.
Numadzu	30.02	762.5	30.05	763.3	40.6	4.8	64	s.			1		10 s			0	0	overcast	T. Ohgi.
Osaka	30.16	766.1	30.18	766.5	37.9	3.3	77	nw.	2.0	0.9			10 s			0	0	cloudy	H. Omura.
Sakai	30.19	766.8	30.20	767.0	35.3	1.8	87	wsw.			2	0	3 ks		wnw.	0.016	0.4	fair	Yamawchi & Sakamoto.
Sapporo	29.99	759.4	29.97	761.2	16.2	— 8.8	62	s.	2.5	1.1		0	6 s			0	0	cloudy	S. Kimura.
Shimonoseki	30.09	764.2	30.23	767.9	39.4	4.1	81	sw.			1	0	1 s		nw.	0.028	0.7	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.99	761.8	30.07	763.8	36.9	2.7	52	nne.	10.2	4.6			10 s			0	0	covered	The Staff.
Wakayama	30.13	765.2	30.18	766.6	39.2	4.0	75	calm	0	0			10 s			0	0	cloudy	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.75	755.6	29.94	760.5	82.0	27.8	66	e.	21.0	9.4		1 cs	4 kn		ese.	0.11	2.8	fair	The Staff.
MEXICAN.																			
Leon	24.33	618.0	30.06	763.5	53.6	12.0	77	w.	0.9	0.4			10 ck		sw.	0	0	overcast	M. Leal & M. Pina.
Mazatlan	29.77	756.2	30.04	762.9	68.5	20.3	90	e.	1.6	0.8			10 n		sw.	inap.	inap.	covered	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.60	777.3	30.60	777.3	32.9	0.5		nw.			3					0	0		
Groningen	30.46	773.6	30.51	775.0	45.0	7.2		sw.			1					0.020	0.5		
Helder	30.50	774.6	30.50	774.6	43.9	6.6		wnw.			2					0	0		
Hellevoetsluis	30.57	776.5	30.57	776.5	50.5	10.3	92	w.			1					0	0		
Utrecht	30.50	774.6	30.55	776.0	48.4	9.1	92	wnw.			2		7			0.008	0.2	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.86	758.4			78.1	25.6	88	nw.	0	0			5			0.165	4.2		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.10	764.6	30.17	766.2	46.4	8.0	89	wnw.	13	6			10			0.256	6.5	raining	
Brono	29.76	755.8	29.86	756.8	36.0	2.2	58	nw.			6		10			0.157	4.0		
Christiania	29.75	755.7	29.91	759.6	33.4	0.8	90	sse.	0	0			6			0	0	foggy	
Gjesvær	29.47	748.5	29.49	749.1	21.6	— 5.8		sse.			6		5			0.020	0.5		
Lodingen	29.54	750.2	29.58	751.4	28.4	— 2.0	72	w.			2		10			0.110	2.8		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira																			Capt. D. A. de Cunha.
Lisbon, Observatory	30.20	767.0	30.28	769.2	62.1	16.7	81	se.	3.1	1.4			10			0.126	3.2		The Staff.
Ponta Delgada, Azores	30.07	763.8	30.42	772.6	49.6	9.8	64	ne.	9.8	4.4			0			0	0		
Saint Paul de Loanda	30.02	762.4	30.09	764.2	61.9	16.6	83	calm	0	0			3			0.071	1.8		
St. Vincent, Cape Verd Ids.																			
San Salvador, Congo	30.08	764.0	30.12	765.0	71.6	22.0	84	ne.			3		3			0	0		
Serra da Estrella	28.10	713.8	29.93	760.1	81.3	27.4	65	calm			0		8			0	0		
	25.56	649.3	30.34	770.7	48.7	9.3	23	se.	1.8	0.8			0			0	0		
RUSSIAN.																			
Akmolinski	28.26	717.8	29.38	746.2	23.9	— 4.5	100	wsw.	22	10			10 n			0	0		Major K. Lasarew.
Archangel	29.81	757.1	29.83	757.6	—13.9	—25.5	87	ese.	4	2			9 ks			0	0		Capt. Sselliwerstow
Astrakhan	30.16	766.0	30.06	763.6	49.5	9.7	86	nnw.	9	4		0	5 k			0	0		
Baku	30.19	766.7	30.11	764.7	26.2	— 3.2	74	wsw.	2	1		0	1 s						Capt. Wisganow.
Barnaul	30.11	764.7	30.06	763.5	43.3	6.3	70	calm	0	0		0	7 ks			0	0		
Bielosersk	29.37	745.9	29.90	759.4	19.0	— 7.2	84	calm	0	0			3			0	0		Meteorological Office.
Dorpat	29.32	744.7	29.85	758.1	— 7.4	—21.9	81	se.	7	3		ck	8 s			0.020	0.5		
Ekaterinburg	29.19	741.3	29.43	747.6	33.4	0.8	98	w.	7	3			10 n			0.094	2.4		Observatory.
Elisawetgrad	28.05	727.8	29.72	754.9	— 5.4	—20.8	88	nnw.	11	5			10			blank	blank		Meteorological Obs'y.
Kasan	29.51	749.6	29.99	761.7	27.7	— 2.4	87	s.	4	2			10 n			0	0		
Kem	29.54	750.3	29.83	757.7	13.5	—10.3	90	calm	0	0			10			0·067	1.7	light snow	Observatory.
Kertch	29.77	756.1	29.82	757.4	—13.7	—25.4	85	calm	0	0			9 k			0	0	h'vy clouds	
Kieff	29.91	759.7	29.93	760.3	28.2	— 2.1		ne.	7	3			9 n			0	0		Lagorio & Sastyrez.
Koslov	29.17	740.8	29.83	757.6	32.9	0.5	90	w.	9	4			10ks;n			0.039	1.0		Observatory.
Lgov	29.30	744.3	29.85	758.2	10.9	—11.7	82	ene.	7	3			10 s			0.118	3.0		
Luban	29.23	742.5	29.85	758.1	24.6	— 4.1	87	sw.	16	8			10			0.008	0.2	snowing	R. I. Ssaweljew, Engin'r.
Lugan	29.73	755.2	29.76	755.8	38.7	3.7	87	nw.	11	5			1			0	0		[illegible]
Moscow	29.78	756.5	30.00	762.0	28.2	— 2.1	57	sw.	9	4			5			0	0	light clouds	Meteorological Obs'y
Nertschinsk	29.32	744.6	29.85	758.1	5.9	—14.5	80	calm	0	0		0	4 s			0.122	3.1		Meteorological Obs'y
	28.07	712.9	30.82	782.7	—28.5	—33.6	83	calm	0	0			0			0	0		

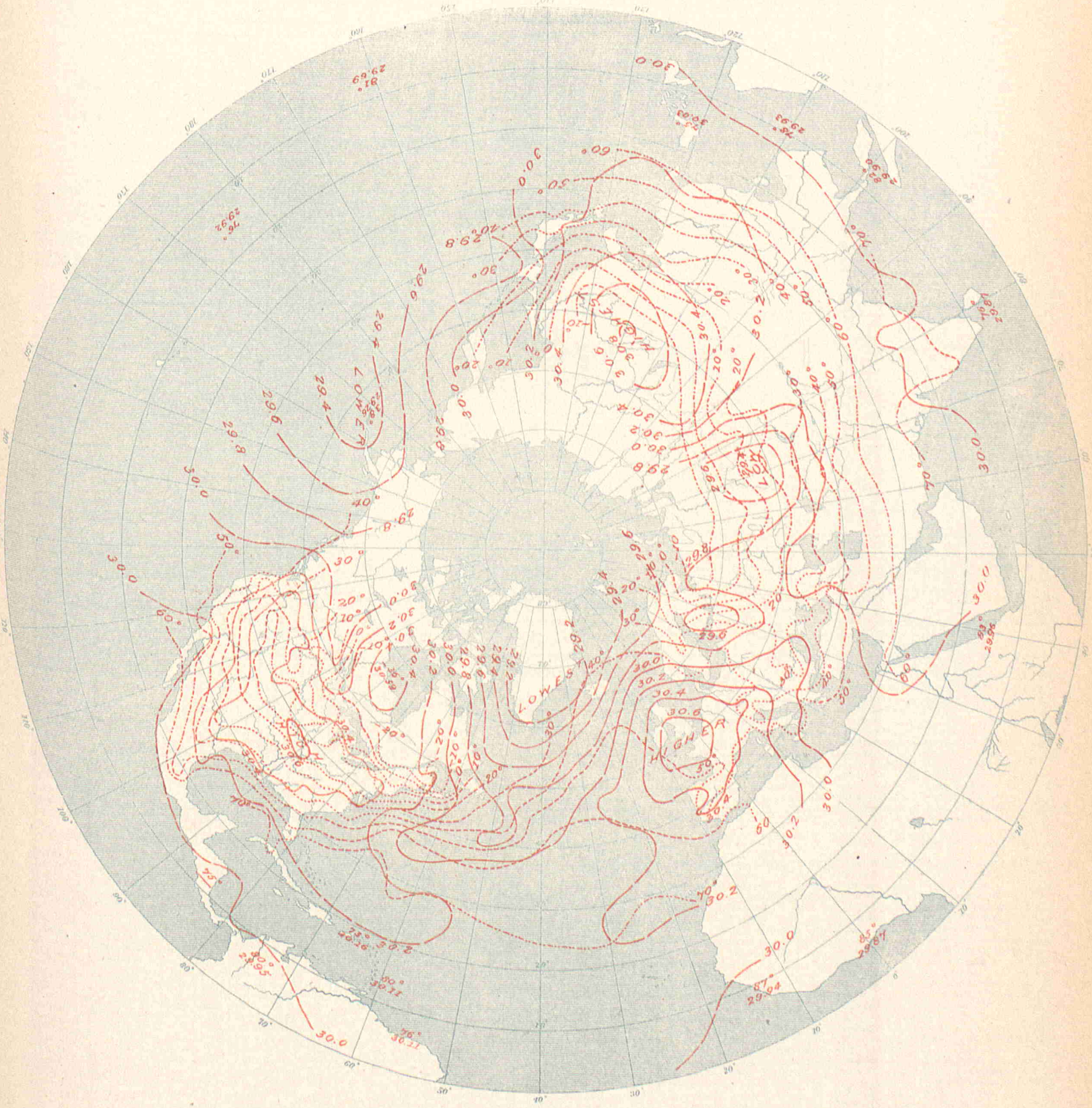
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mts. p. sec	0-10	0-10	0-10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Nikolaiev	29.91	759.8	29.98	761.6	31.5	— 0.3	72	s.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	30.12	765.0	30.21	767.2	2.8	—16.2	83	nw.	4	2			10 n					light snow..	Twanow.
Pekin, China	30.24	768.2	30.39	771.8	29.3	— 1.5	33	nw.	10.1	4.5		c	8 n			0	0		Physical Observatory
Petro-Alexandrovsk	29.72	754.8	30.08	764.1	38.8	3.8	80	wnw.	2	1		0	6 ks						
Petrozavodsk	29.51	749.5	29.73	755.1	— 3.3	—19.6	81	se.	11	5			10			0.004	0.1		Dr. Bergmann.
Pinsk	29.35	745.5	29.87	758.6	32.9	0.5	82	w.	9	4			10 s			0.012	0.3		
Poti	29.88	759.0	29.91	759.8	52.9	11.6	67	e.	7	3			10 n			0	0		
St. Petersburg	29.47	748.6	29.50	749.2	13.8	—10.1	93	sse.	16	7			10 n			0.122	3.1		Central Physical Obs'y.
Samarkand	27.57	700.3	30.04	763.0	54.7	12.6	41	sw.	7.8	3.5			9 k						
Semipalatinsk	29.24	742.6	29.95	760.6	12.7	—10.7	90	se.	22	10			10			0	0		Major Lasarew
Sevastopol	29.73	755.1	29.95	760.7	37.9	3.3	58	ne.	11	5		0	7 s			0.020	0.5		
Staroi Bykhov	29.14	740.1	29.72	754.8	28.9	— 1.7	90	w.	13	6			10			0.053	2.1	light snow..	
Tashkend, Laboratory	28.35	720.0	30.07	763.8	39.9	4.4	70	calm	0	0			10 n						Terch, A. M
Tiflis	28.63	727.1	30.11	764.9	33.3	0.7	92	s.	11	5			10 s			0	0		Physical Observatory.
Vernoe	27.34	694.5	29.95	760.8	28.8	— 1.8	55	calm	0	0			10 n						
Viatka	29.14	740.1	29.84	757.8	— 2.0	—18.9	93	calm	0	0			10			0	0		
Vladivostock	30.30	769.6	30.37	771.3	— 4.9	—20.5	63	nnw.	34	15		0	0			0	0		
Warsaw	29.52	749.8	29.96	761.0	31.6	— 0.2	87	w.	11	5			10			0	0	heavy cloud	Astronomical Obs'y.
Yeniseisk	30.11	764.8	30.44	773.1	— 7.6	—22.0	83	calm	0	0			0?			0.024	0.6	snowing?	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.19	741.4	29.78	756.4	5.0	—15.0	77	se.	0.2	0.1		4 cs	0	sw.		0.04	1.0	fair	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.22	767.7	30.34	770.6	57.9	14.4	62	sw.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.46	773.7	30.52	775.2	50.5	10.3	77	e.	0.2	0.1		3	2	e.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.38	695.5	30.45	773.3	45.0	7.2	61	ne.	11.2	5.0		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.10	713.7	30.41	772.3	46.9	8.3	63	w.	2.7	1.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.21	767.3	30.35	770.8	57.7	14.3	72	e.	0.7	0.3		0	1			0	0	almost clear.	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.46	748.3	30.38	771.6	53.1	11.7	64	n.	0.7	0.3			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.10	764.5	30.17	766.2	66.7	19.3	90	e.	1.1	0.5		ck	k			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.97	761.3	30.03	762.7	74.8	23.8	74	e.	2.2	1.0		0	1 k			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.27	768.9	30.37	771.5	57.2	14.0	65	calm	0	0		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.07	763.7	30.10	766.0	73.4	23.0	73	s.	2.7	1.2		3 cs	4 k	s.	s.				Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.65	753.0	29.69	754.0	9.3	—12.6	100	e.			2		10			0.055	1.4		
Umea	29.58	751.3	29.63	752.6	19.4	— 7.0	89	calm			0		9			0	0		
Hernosand	29.61	752.2	29.67	753.5	35.2	1.8	82	n.			2		0			0.031	0.8		
Stockholm	29.61	752.0	29.78	756.5	36.5	2.5	74	nw.			2		0			0	0		
Wisby	29.72	755.0	29.78	756.5	39.9	4.4	84	nw.			6		0			0	0		
Sub-series																			
Upsala	29.69	754.1	29.78	756.3	34.3	1.3	73	wnw.	6.3	2.8			4		nw.	0	0		H. H. Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			29.97	761.2	37.2	2.9	93	n.	17	7.5			10		n.	0.134	3.4	raining	The Observatory.
Valona			29.95	760.8	50.5	10.3		ne.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.07	763.8	54.5	12.5	74	sse.			2		10 n		sw.	0.037	0.9		F. Nimr, B. A., Dir
UNITED STATES.																			
Albany, New York	30.32	770.1	30.42	772.7	3	—16.1	66	ne.	5	2.2		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.64	752.8	30.35	770.9	—11.8	—24.3	47	w.	3	1.3		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.95	633.7	30.07	763.8	29.4	— 1.4	77	se.	3	1.3		0	8 k		se.	inap.	inap.	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.29	693.2	30.33	770.4	24.0	— 4.4	76	sw.	20	8.9		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.15	740.4	30.38	771.6	34.0	1.1	82	nw.	10	4.5			10 s		se.	0	0	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.39	771.9	30.40	772.1	12.0	—11.1	61	n.	9	4.0		10 ck	0	n.		0.06	1.5	cloudy	B. A. Blundon.
Augusta, Georgia	30.16	766.1	30.36	771.1	46.2	7.9	71	ne.	8	3.6		10 ck	0	w.		0	0	cloudy	W. J. Evans.
Baltimore, Maryland	30.44	773.2	30.49	774.4	21	— 6.1	42	n.	4	1.8		0	4 s			0.35	9.1	fair	Geo. W. Felger.
Barnegat City, New Jersey	30.37	771.4	30.39	771.9	12.0	—11.1	80	n.	26	11.6		10 ck	0	nw.		0.17	4.3	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.56	725.4	30.30	769.6	12.0	—11.1	64	calm	0	0		3 k	3 s	nw.	nw.	0.03	0.8	fair	A. Pritchard.
Benton, Fort, Montana	27.34	694.4	30.32	770.1	28.5	— 1.9	47	sw.	11	4.9		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.21	716.5	30.21	767.3	13	—10.6	66	calm	0	0			10 s			inap.	inap.	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.19	766.8	30.22	767.6	14.8	— 9.6	69	n.	20	8.9		2 cs	0	w.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.55	699.8	30.48	774.2	9	—12.8	91	w.	2	0.9		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	30.13	765.3	30.30	769.6	7.0	—13.9	57	nw.	14	6.3		0	1 s			0	0	clear	O. B. Cole.
Brownsville, Texas	30.14	765.5	30.20	767.1	48.0	8.9	86	n.	15	6.7			10 s			0.66	16.8	cloudy	John McGlone.
Buffalo, New York	29.63	752.6	30.42	772.7	10.2	—12.1	89	w.	12	5.4			10 s		w.	inap.	inap.	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.99	710.9	30.22	767.6	15.5	— 9.2	89	nw.	5	2.2		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	30.20	767.1	30.62	777.7	16.7	— 8.5	80	n.	9	4.0		0	5 s		n.	0	0	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.92	760.0	30.12	765.0	47.0	8.3	56	se.	18	8.0		0	hz.			0	0	clear	J. H. Young.
Cape Henry, Virginia	30.41	772.4	30.43	772.9	29.0	— 1.7	88	nw.	20	8.9			10 s			0.15	3.8	cloudy	A. K. Alderson
Cape May, New Jersey	30.41	772.4	30.44	773.2	15.0	— 9.4	67	n.	22	9.8		7 cs	0	n.		0.42	10.7	fair	W. E. Smith.
Cape Mendocino, California	29.36	745.7	30.06	763.5	43	6.1	74	s	18	8.0		0	0			0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.28	769.1	30.30	769.6	54.5	12.5	74	n.	10	4.5		0	0			0.01	0.3	clear	G. W. Davis.
Charleston, S. Carolina	30.23	767.8	30.29	769.4	47.0	8.3	77	ne.	8	3.6			10 s		ne.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.50	749.3	30.39	771.9	38.0	3.3	53	ne.	9	4.0			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.60	751.8	30.46	773.7	33.0	0.6	78	nw.	4	1.8		8 cs	0	w.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	30.36	771.1	11.7	—11.3	68	nw.	7	3.1		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.76	755.9	30.51	774.9	6.2	—14.3	68	w.	2	0.9		3 cs	7 ks	w.	w.	0.02	0.5	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.39	771.9	30.41	772.4	20.0	— 6.7	70	ne.	30	13.4			10 k			0.08	2.0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.88	758.9	30.56	776.2	15.9	— 8.9	85	sw.	1	0.4		0	fg.			0	0	clear	L. Dunne.
Cleveland, Ohio	29.69	754.1	30.47	773.9	10.0	—12.2	89	se.	4	1.8			10 s		se.	0	0	cloudy	W. Line.
Columbus, Ohio	29.61	752.1	30.51	774.9	11.3	—11.7	75	nw.	2	0.9			10 s		w.	0	0	cloudy	F. T. Williams.
Concho, Fort, Texas	28.46	722.9	30.48	774.2	27.0	— 2.8	100	ne.	14	6.3			10 n		ne.	0.02	0.5	sleeting	C. E. King.
Custer, Fort, Montana	27.01	686.0	30.39	771.9	29	— 1.7	67	w.	12	5.4		3 c	0			0	0	clear	W. J. Daily.
Davenport, Iowa	29.84	757.9	30.55	776.0	6.0	—14.4	63	nw.	4	1.8		3 ck	0	nw.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.33	643.4	30.31	769.9	19.4	— 7.0	100	n.	4	1.8			10 s			0.03	0.8	cloudy	J. Williams.
Dayton, Washington T'y	28.66	728.0	30.47	773.9	20.4	— 6.4	91	calm	0	0		0	0			0	0	clear	H. S. Blandford.
Deadwood, Dakota	25.44	646.2	30.39	771.9	25.0	— 3.9	70	s.	3	1.3			10 s			0	0	cloudy	G. Kingsbury.
Delaware Breakwater, Del.	30.41	772.4	30.43	772.9	18.3	— 7.6	76	n.	27	12.1		0	9 k		n.	0.12	3.0	cloudy	G. A. Martin.
Denver, Colorado	24.88	631.9	30.40	772.1	8.0	—13.3	71	se.	2	0.9		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.52	749.8	30.49	774.4	13	—10.6	61	sw.	8	3.6		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.73	755.1	30.49	774.4	13.0	—10.6	61	calm	0	0			10 s			0	0	cloudy	N. B. Conger.
Dodge City, Kansas	27.79	705.9	30.54	775.7	7	—13.9	80	w.	8	3.6		0	0			0.05	1.3	clear	J. E. Lanouette.
Dubuque, Iowa	29.71	754.6	30.48	774.2	6.5	—14.2	37	s.	2	0.9			10 ks		sw.	0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.49	749.0	30.30	769.6	1	—17.2	72	sw.	8	3.6			10 s		sw.	0	0	cloudy	E. R. Brace.
Eastport, Maine	30.17	766.3	30.24	768.1	— 5.5	—20.8	62	n.	16	7.2		0	2 s		n.	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.60	701.0	30.53	775.4	19.5	— 6.9	94	ne.	5	2.2			10 s			inap.	inap.	cloudy	J. C. Rickli.
El Paso, Texas	26.38	670.0	30.20	768.0	34.9	1.6	72	se.	8	3.6			10 s		se.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.68	753.9	30.45	773.4	14.2	— 9.9	80	w.	13	5.8			10 s		w.	0.01	0.3	cloudy	C. A. Shaw.
Escanaba, Michigan	29.67	753.6	30.39	771.9	—10.5	—23.6	72	sw.	5	2.2		6 ck	0	s.		0	0	fair	L. M. Pindell.
Fort Smith, Arkansas	30.04	763.0	30.54	775.7	29.3	— 1.5	88	calm	0	0			10 s			0.01	0.3	cloudy	J. B. Campbell.
Galveston, Texas	30.20	767.1	30.24	768.1	46.5	8.1	86	ne.	20	8.9			10 n		n.	0.04	1.0	light rain	E. O'C. Macline rney
Grand Haven, Michigan	29.74	755.4	30.44	773.2	16.0	— 8.9	83	w.	13	5.8			10 ks		w.	0.01	0.3	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.15	638.8	30.05	763.3	35.8	2.1	65	se.	19	8.5			10 s		se.	inap.	inap.	cloudy	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.30	769.6	30.31	769.9	37.0	2.8	82	ne.	28	12.5	.....	.....	10 s	.....	ne.	0	0	cloudy	R. M. Crawford
Helena, Montana	26.12	663.4	30.51	774.9	.....	.....	.....	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	S. W. Morrison.
Huron, Dakota	28.77	730.7	30.31	769.9	14.0	—10.0	76	s.	5	2.2	.....	2 cs	0	.....	.....	inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.69	754.1	30.53	775.4	12.5	—10.8	68	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.23	767.8	30.26	768.6	48.2	9.0	96	n.	26	11.6	.....	.....	10 n	.....	n.	0.24	6.1	light rain	I. A. Reed.
Jacksonville Florida	30.20	768.6	30.31	769.9	50.3	10.2	88	w.	4	1.8	.....	4 cs	fg.	w.	.....	0.04	1.0	fair	J. W. Smith.
Keokuk, Iowa	29.86	758.4	30.56	776.2	8.0	—13.3	76	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	F. Z. Gosewisch.
Key West, Florida	30.15	765.8	30.17	766.3	70	21.1	94	ne.	8	3.6	.....	1 cs	0	sw.	.....	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.37	771.4	30.39	771.9	34.5	1.4	75	ne.	36	16.1	.....	.....	10 s	.....	ne.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.38	746.2	30.46	773.7	27.8	— 2.3	82	n.	6	2.7	.....	hz.	8 s	.....	nw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.58	751.3	30.42	772.7	11	—11.7	80	s.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.65	753.1	30.61	777.5	8.7	—12.9	43	s.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	T. S. Outram.
Lewiston, Idaho	29.70	754.4	30.57	776.5	23.0	— 5.0	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	O. E. Butler.
Little Rock, Arkansas	30.21	767.3	30.54	775.7	31.0	— 0.6	78	ne.	8	3.6	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	W. U. Simons.
Los Angeles, California	29.63	752.6	30.03	762.7	39.2	4.0	70	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.96	761.0	30.55	776.0	19.0	— 7.2	76	n.	5	2.2	.....	8 c	0	w.	.....	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.67	753.6	30.39	771.9	32.0	0.0	78	e.	3	1.3	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.65	753.1	30.35	770.9	— 0.5	—18.1	83	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.35	770.9	30.36	771.1	36.0	2.2	82	n.	24	10.7	.....	.....	10 s	.....	n	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.75	654.0	30.52	775.2	29.5	— 1.4	59	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.54	750.3	30.32	770.1	— 4.3	—20.2	64	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	30.18	766.6	30.54	775.7	27	— 2.8	82	calm	0	0	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.69	754.1	30.49	774.4	2.4	—16.4	75	w	6	2.7	.....	.....	10 s	.....	nw.	0	0	cloudy	S. W. Rhode.
Mobile, Alabama	30.32	770.1	30.36	771.1	43.1	6.2	74	n.	11	4.9	.....	.....	10 s	.....	n.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.18	766.6	30.42	772.7	39.5	4.2	86	n.	6	2.7	.....	4 cs	4 s	n.	n.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.11	739.4	30.22	767.6	— 4	—20.0	100	se.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.33	592.6	29.96	761.0	—16.0	—26.7	52	nw.	65	29.1	.....	0	0	.....	.....	0	0	clear	Edwd. A. Beals.
Nashville, Tennessee	29.91	759.7	30.52	775.2	27.2	— 2.7	87	n.	5	2.2	.....	.....	10 ks	.....	n.	inap.	inap.	cloudy	L. N. Jesunofsky
New Haven, Connecticut	30.24	768.1	30.36	771.1	7	—13.9	52	nw.	15	6.7	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.35	770.9	30.40	772.1	10.0	—12.2	58	n	8	3.6	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.28	769.1	30.34	770.6	47.0	8.3	77	ne.	14	6.3	.....	8 cs	fg.	nw.	.....	0	0	cloudy	M. Herman.
New York, New York	30.22	767.6	30.42	772.7	12.5	—10.8	61	n.	3	1.3	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	H. J. Penrod.
Norfolk, Virginia	30.36	771.1	30.40	772.1	31.3	— 0.4	74	ne.	11	4.9	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	Wm. Davis.
North Platte, Nebraska	27.34	694.4	30.46	773.7	— 0.9	—18.3	77	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	30.25	768.3	30.29	769.4	35.0	1.7	79	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb
Omaha, Nebraska	29.21	741.9	30.48	774.2	15.2	— 9.3	67	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	29.99	761.7	30.34	770.6	14.0	—10.0	64	s.	4	1.8	.....	.....	10 n	.....	.....	0.31	7.9	heavy snow	J. G. Linsley.
Palestine, Texas	29.85	758.2	30.43	772.9	38.0	3.3	89	ne.	3	1.3	.....	.....	10 n	.....	.....	0.18	4.6	light rain	P. T. Jenkins.
Pensacola, Florida	30.30	769.6	30.33	770.4	44.2	6.8	77	n.	10	4.5	.....	7ok;cs	0	w.	.....	0	0	fair	M. McGauran.
Philadelphia, Pa.	30.35	770.9	30.46	773.7	14.6	— 9.7	69	nw.	9	4.0	.....	0	hz.	.....	.....	0.36	9.1	clear	T. F. Townsend.
Pike's Peak, Colorado	17.66	448.6	30.36	771.1	— 1.0	—18.3	79	nw	8	3.6	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.63	752.6	30.48	774.2	15.0	— 9.4	83	nw.	5	2.2	.....	0	0	.....	.....	0.02	0.5	clear	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	5.2	—14.9	80	w.	.....	.....	1	1 c	1 k	.....	.....	0	0	clear	G. A. Garden.
Port Huron, Michigan	29.67	753.6	30.40	772.1	3.0	—16.1	79	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	30.24	768.1	30.29	769.4	6.0	—14.4	76	n.	3	1.3	.....	4 c	hz.	sw.	.....	0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.14	765.5	30.22	767.6	38.0	3.3	53	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.73	628.1	30.11	764.8	30.8	— 0.7	86	e.	3	1.3	.....	.....	10 n	.....	.....	inap.	inap.	light snow	N. D. Lane.
Provincetown, Mass.	30.23	767.8	30.26	768.6	14.1	— 9.9	76	n.	13	5.8	.....	2 cs	0	w.	.....	0.04	1.0	clear	C. N. Kitchel.
Red Bluff, California	29.79	756.7	30.16	766.1	42	5.6	42	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.13	765.3	30.38	771.6	43.4	6.3	99	nw.	13	5.8	.....	.....	10 n	.....	n.	0.32	8.1	light rain	L. G. Schultz.
Rochester, N. Y.	29.66	753.4	30.37	771.4	10	—12.2	80	sw.	19	8.5	.....	.....	10 s	.....	w.	0.05	1.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.60	751.8	30.17	766.3	26.2	— 3.2	87	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	30.06	763.5	30.14	765.5	37.0	2.8	94	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.96	761.0	30.62	777.7	13.1	—10.5	76	n.	6	2.7	.....	0	sk.	.....	.....	inap.	inap.	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.57	751.1	29.61	752.1	2	—16.7	100	ne.	.....	.....	2	.....	10 n	.....	.....	0.12	3.0	light snow	Fred. H. Clarke
St. Paul, Minnesota	29.39	746.5	30.33	770.4	5.0	—15.0	100	se.	1	0.4	.....	0	1 s	.....	.....	inap.	inap.	clear	P. F. Lyons.
St. Vincent, Minnesota	29.13	739.9	30.11	764.8	— 4	—20.0	85	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.95	659.1	30.52	775.2	12.2	—11.0	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	29.00	759.4	29.97	761.2	47.6	8.7	69	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.75	755.6	30.47	773.9	15	— 9.4	67	w.	3	1.3	.....	.....	10 ks	.....	w.	0.01	0.3	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.38	771.6	30.41	772.4	13.2	—10.4	61	nw.	26	11.6	.....	0	0	.....	.....	0.09	2.3	clear	V. P. Chappel.
Sanford, Florida	30.18	766.6	30.23	767.8	58.0	14.4	80	nw.	11	4.9	.....	0	3 s	.....	nw.	0	0	clear	J. B. Marbury
San Francisco, California	30.03	762.7	30.10	764.5	48.2	9.0	58	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.22	767.6	30.32	770.1	44	6.7	74	n.	6	2.7	.....	3 ck	0	w	.....	inap.	inap.	clear	R. M. Geddings.
Shaw, Fort, Montana	26.50	673.1	30.36	771.1	28	— 2.2	59	sw.	23	10.3	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.19	766.8	30.44	773.2	34.5	1.4	77	ne.	10	4.5	.....	.....	10 n	.....	ne.	0.05	1.3	light rain	E. N. Meekins.
Sitka, Alaska	29.69	754.1	29.76	755.9	40.7	4.8	82	e.	9	4.0	.....	.....	10 n	.....	e.	3.02	76.7	heavy rain	F. W. Fickett.
Smithville North Carolina	30.31	769.9	30.35	770.9	41.7	5.4	80	n.	7	3.1	.....	.....	10 s	.....	n.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.32	719.3	30.46	773.7	25	— 3.9	76	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.86	758.4	30.58	776.7	10.5	—11.9	75	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	T. B. Jennings
Stockton, Fort, Texas	27.28	692.9	30.42	772.7	27.0	— 2.8	100	n.	6	2.7	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	30.05	763.3	.....	.....	39.0	3.9	74	e.	24	10.7	.....	0	2 s	.....	e.	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.32	693.9	30.15	765.8	40	4.4	76	se.	.....	.....	2	0	8 s	.....	se.	0	0	cloudy	R. C. Lord.
Toledo, Ohio	29.72	754.9	30.46	773.7	15	— 9.4	83	w.	2	0.9	.....	0	3 s	.....	.....	0	0	clear	A. Buell.
Unalashka, Alaska	29.24	742.7	29.26	743.2	38	3.3	82	e.	20	8.9	.....	.....	10 n	.....	.....	0.30	7.6	light rain	Samuel Applegate
Vicksburg, Mississippi	30.21	767.3	30.48	774.2	37.0	2.8	72	ne.	8	3.6	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	C. Dill.
Washington, D. C.	30.38	771.6	30.50	774.7	18.0	— 7.8	83	n.	3	1.3	.....	6 c	0	w.	.....	0.01	0.3	fair	T. B. Harrison.
West Las Animas, Colorado	26.30	668.0	30.43	772.9	— 6	—21.1	100	nw.	4	1.8	.....	0	0	.....	.....	0.03	0.8	clear	F. H. Brandenburg
Wilmington, N. Carolina	30.32	770.1	30.38	771.6	41.2	5.1	82	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	L. H. Albrecht.
Yankton, Dakota	28.96	735.6	30.38	771.6	16.2	— 8.8	82	w.	8	3.6	.....	7 c	0	w.	.....	0	0	fair	E. H. Thompson.
Yuma, Arizona	29.84	757.9	29.99	761.7	52.9	11.6	28	se.	8	3.6	.....	0	9 s	.....	ne.	inap.	inap.	cloudy	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.98	761.5	30.00	762.0	25.0	— 3.9	88	ne.	22	9.8	.....	1 cs	7 kn	.....	n.	inap.	inap.	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	79	26.1	.....	ne.	.....	.....	2	0	3 k	.....	ne.	0.15	3.8	fair	W. H. Jackson.
Bogota, U. S. C.	21.99	558.6	.....	.....	53.6	12.0	90	n.	2	1	.....	.....	10 pk	.....	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.85	758.2	30.01	762.2	—33	—36.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.12	765.0	71.0	21.7	81	n.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.11	764.8	30.11	764.8	76	24.4	91	e.	.....	.....	2	.....	8 ps	e.	e.	0.420	10.7	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.95	760.7	80	26.7	85	calm	.....	.....	0	.....	9 ks	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	90	ne.	.....	.....	3	.....	5 k	.....	ne.	0	0	.....	Earl Flint.
York Factory, B. A.	30.52	775.2	30.59	777.0	—36.0	—37.8	.....	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.98	761.6	30.00	761.9	79.9	26.6	79	n.	10.3	4.6	.....	0	4 k	.....	n.	.....	.....	hazy	P. Fasiani.
Naos, Bay of Panama	29.88	758.9	29.95	760.6	75.6	24.2	86	n.	.....	.....	4	0	1 k	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
S. S. Alleghany, Boston, Mass			14	—10.0		nw.			3		0			light	light			clear.
Schr. Anna A. Holton, N. 36° 49′, W. 68° 00′*†	30.02	762.5	64	17.8		ne.			5		10		ne.	8 h'r	8 h'r	r'gh	ne.	raining.
S.S. Arizona, N. 49° 08′, W. 35° 40′	29.91	760.5	46	7.8		wsw.			6		8		w.	0	0	high	wsw.	fair.
S. S. Alps, N. 39° 34′, W. 74° 05′*†	30.40	772.1	15	— 9.4		n.			5		3		wsw;n.	snow	snow	chop		fair.
S. S. British Prince, Liverpool, Eng						sw.			4		7		sw.	0	0			hazy.
S. S. Belgenland, N. 49° 50′, W. 26° 41′			53	11.7	86	w.			6				w.	rain	rain		nw.	overcast.
S. S. Circassian, N. 43° 34′, W. 68° 53′	30.24	768.1	13	—10.6		wnw.			4		8		wnw.			3	wnw.	showery.
S. S. City of Angusta, New York, N Y						wnw.			3		5		nw.	0	0			fair.
S S. Canada, (Br.) N. 44° 45′, W. 43° 39′ †	29.94	760.5	48	8.9		se.			1		10	e.	se.	3 h'r	3 h'r	long	nw.	cloudy.
Bk. Diamant, N. 41° 18′, W. 63° 20′	30.14	765.6	29.3	—1.5		nnw.			4		9		nnw.			3	n.	overcast.
S. S. Dorian, N 33° 20′, W. 53° 00′	30.17	766.3	68	20.0		sw.			6		8		w.	0	0	long	w.	fair.
S. S. Denmark, N. 49° 17′, W. 33° 15′ †	29.95	760.7	53	11.7	86	wsw.			6		8		wsw.	6 h'r	6 h'r	r'gh	wsw.	cloudy.
S. S. Daniel Steinmann, N. 50° 44′, W. 31° 16′†	29.85	758.2	58	14.4		wsw.			5		9		w.	0	0	con.	w.	overcast.
S. S. France, N. 40° 40′, W. 69° 04′*†	30.20	767.0				ne.			4		10		nw.	snow	snow	sm'h	nw.	cloudy.
Bg. Gipsy Queen, N. 32° 00′ W. 77° 05′						n.			6		7		n.	0	0	short	ne.	
S. S. Iowa, N. 42° 27′. W. 66° 13′			25	— 3.9		n.			4		9		n.	1 h'r	1 h'r	sm'h	n.	light snow.
S. S. Lord Gough, N. 42° 30′, W. 60° 47′*	30.01	762.2	26	— 3.3		n.			4		8		n	0	0	mod.	nw.	cloudy.
S S. Landaff City, N. 49° 38′, W. 24° 05′*†	30.10	764.5	54	12.2		s.			6		9		ssw.	0	0	high	s.	overcast.
S. S. Lessing, N. 45° 04′ W. 47° 07′	29.76	755.9	39	3.9		w.			4		10		nw.	2 h'r	2 h'r	r'gh	wsw.	sleeting.
S. S. Labrador, N 49° 28′, W. 34° 10′ *†	30.00	762.0	50.0	10		w.			4		9		sw.			large	w.	fair.
S. S. Main, N. 48° 18′, W. 42° 11′	29.85	758.2	39.2	4.0		wsw.			6		6		w.	3 h'r	3 h'r	high	wsw.	cloudy.
S. S. Neckar, N. 43° 32′, W. 48° 50′	29.87	758.7	32.0	0.0	90	wnw			6		6		nw.	snow	snow	mod.	nw.	fair.
Schr. Maggie Abbott, N. 32° 50′, W. 73° 50′						nnw.			5		8		n.	sh'rs	sh'rs	cross		cloudy.
Bk. Matthias, N. 36° 00′, W. 63° 00′ *†	29.90	759.4	67	19.4		wnw			5		6		nnw.	0	0	4	wnw.	squally.
S. S. New York, N. 27° 25′, W. 87° 00′ *†	30.20	767.1	68	20.0		ne.			6		10		n.			high	ne.	cloudy.
S. S. Nova Scotian, N. 38° 22′, W. 71° 14′	30.22	767.6	37	2.8		nw.			5		8		nw.			sm'h		cloudy.
S. S. Nederland, N. 41° 56′, W. 62° 06′			27	— 2.8	?	nnw.			4		10		w.	2 h'r	2 h'r	sm'h		overcast.
S. S. Nurnberg, N. 49° 03′, W. 30° 46′	29.91	759.7	50.0	10.0		wnw.			4		7		wsw.	6 h'r	6 h'r	high		cloudy.
S. S. Oregon, (Br.) N. 49° 03′, W. 39° 36′	29.81	757.2	42	5.6		wsw.			7		8		wsw.	0	0	high	wsw.	cloudy.
S. S. Picqua, N. 36° 02′, W. 46° 40′*†	30.15	765.8	61	16.1	94	wsw.			6				nw.	sh'rs	sh'rs		var.	cloudy.
S. S. Rhein, N. 49° 46′, W. 8° 31′	30.71	780.0				s.			2		8		s.	6 h'r	6 h'r	mod	s.	rainy.
S. S. Republic, N. 47° 50′, W. 32° 26′*†	29.97	761.2	53	11.7		wnw.			4		9		nw.	0	0	mod.	w.	cloudy.
S. S. Romano, N. 41° 21′, W. 62° 34′	30.08	764 0	31	— 0.6		nnw.			3		10			2 h'r	2 h'r	sm'h		cloudy.
Bk. Rosina, N 31° 57′, W. 68° 10′	30.19	766.8	72	22.2		wsw.			5		10			6 h'r	6 h'r	mod.	wnw.	stormy.
S. S. State of Georgia, N. 52° 24′ W. 30° 14′†	29.92	760.0	48	8.9		ssw.			2		10		wsw.	shr's	shr's	r'gh	var.	dull.
S. S. Salier, N. 48° 54′, W. 46° 25′*	29.86	758.4				w.			7		8		w.	2 h'r	2 h'r	h'vy	w.	cloudy.
Bgt. Sunlight, N. 10° 07′, W. 59° 11′						ne.			5		6		ne.	½ h'r	½ h'r	short	ne.	fair.
S. S. Thingvalla, N. 58° 35′, W. 14° 25′†	30.15	765.8	49.1	9.5		ssw.			6		6		ssw.	5 h'r	5 h'r	h'vy	sw	fair.
S. S. Valencia, Puerto Cabello, Venezuela †	30.04	763.0	76.5	24.7	88	calm			0		8		ne.	0	0			cloudy.
S. S. Westphalia, N. 49° 30′, W. 30° 27′	29.86	758.4	52	11.1	93	nnw.			2		10			0	0	long	nw.	cloudy.
S. S. Zaandam, N. 50° 17′, W. 20° 02′	30.26	768.6	58.3	14.6	84	ssw.			5		7		sw.	0	0	long	sw.	fair.
Bk. Ariadne, N. 37° 16′, W. 73° 10′	30.26	768.6	38	3.3		n.			6		5		n.	6 h'r	6 h'r	mod	n.	fair.
Schr. Annie E Lewis, Cienfuegos, Cuba, W. I			72	22.2		ne.			1		0			0	0			clear.
Schr. Arthur Burton, Matanzas, Cuba, W.I†	30.17	766.3				sw.			1		fg.		sw.	0	0	sm'h		foggy.
Bk. Aureola, N. 2° 16′, W. 40° 43′			90?	32.2?		ese.			5		5		ese.	2 h'r	2 h'r	mod.	ese.	squally.
U. S. S. Alliance, N. 19° 15′, W. 73° 22′	30.14	765.5	79	26.1	78	wnw.			1		8		w.	0	0	sm'h		cloudy.
S. S. Bothnia, N. 50° 36′, W. 31° 26′	29.83	757.7	56	13.3	87	wsw.			6		8		w.	6 h'r	6 h'r	long	wnw.	cloudy.
S. S. Chalmette, Algiers, La †	30.31	769.9	47	8.3		n.			4		8		n.	0	0			cloudy.
S. S. Dominion, N. 46° 29′ W. 53° 14′ *†	29.92	760.0	27	— 2.8		nw.			3		10		nw.			mod.	wnw.	cloudy.
S. S. Gallia, N. 51° 28′, W. 19° 37′	30.22	767.6	54	12.2		s.			6		5		s.	0	0	sm'h		fair.
S. S. Germanic, N. 50° 45′, W. 25° 25′ *†	29.96	761.0	54	12.2	93	ssw.			6		10		s.	6 h'r	6 h'r	mod.	s.	gloomy.
S. S. Grecian, N. 39° 55′, W. 12° 26′	30.37	771.4	58	14.4	76	ese.			2		0			0	c	light	ene.	clear
Bg. John Welsh, jr., N. 28° 10′, W. 92° 30′						ne.			6		10		ne.			h'vy	ne.	light rain.
S. S. Lone Star, N. 27° 06′, W. 79° 50′*†	30.25	768.3	71	21.7		nnw.			2		7		n.	0	0	sm'h		hazy.
S. S. Muriel, Dominica, W. I	30.09	764.3	79	26.1		e.			2		0			0	0	sm'h		clear.
S. S. Orinoco, Bermuda, Atlantic†	30.12	765.0	70	21.1		sw.			4		9		sw.	0	0			cloudy.
Bk. Saga, N. 24° 09′, W. 58° 54′ *†	30.24	768.0	74	23.3		nne.			1–3		2		nne.	0	0	long		clear.
S. Storm King, N. 37° 32′, W. 35° 21′ *†	30.15	765.8				nnw.			4		8		nnw.	1 h'r	1 h'r	long	w.;e.	foggy.
S. S. Samaria, Liverpool, Eng	30.68	779.3	42	5.6		wnw.			2		10			0	0			overcast.
S. S. Salerno, Hull, Eng †	30.55	776.0	42	5.6		sw.			2		6		w	0	0			fair.
S. S. St. Laurent, Havre, France	30.62	777.7	48.2	9.		ese.			1		10		ese.	0	0	sm'h		overcast.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.21	767.3	75	23.9	81	se.			1		2		se.	0	0			clear.
U. S. S. Tennessee, N. 18° 36′, W. 72° 44′	30.10	764.5	77	25.0	86	ese.	22	9.8			2		calm	0	0	sm'h	ese.	clear.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I	30.11	764.8	78	25.6	78	ene.			1		8		e.					cloudy.
S. S. Wyoming, N. 51° 00′. W. 19° 54′	30.23	767.8	49	9.4		s.			4		5		s.	0	0	mod.	ssw.	fair.
S. S. Westernland, Antwerp, Belgium	30.59	777.0	49	9.4		nw.			3		8		sw.	0	0			misty.
U. S. Navy Yard, Portsmouth, N.H	30.33	770.4	6	—14.4	76	nnw.	8	3.6			0			0	0			clear.
U. S. S. Kearsarge, Spezzia, Italy	30.19	766.8	52	11.1	66	ese.			1		8							fair.
U. S. S. Lancaster, Leghorn, Italy			57	13.9	93	e.			1		2			0	0	sm'h		fair.
U. S. S. New Hampshire, Newport. R. I	30.29	769.4	13	—10.6	100	nw.			4		0					sm'h		clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.19	765.8	51	10.6	65	ene.			1		0					sm'h		clear.
U S. S. Shenandoah, N. 27° 20′, W. 24° 17′*	30.28	769.1	72	22.2	85	sw.			2		5		sw.			sm'h		fair.
U. S. S. Trenton, Marseille, France	30.29	769.4	50	10.0	86	n.			1		2		n.					fair.
H M. S. Alexandra, Malta, Mediterranean	29.96	761.0	53	11.7	67	ne.			3		9	ne.						d. clouds.
H. M. S. Alecto, N. 5° 32′, E 0° 11′	29.87	758.7	85	29.4		se.			1							5	s.	misty.
H. M. S. Comus, N. 15° 00′, W. 24° 48′	30.10	764.5	74	23.3	76	nne.			5		4	nne.				2	nne.	misty.
H. M. Dockyard, Bermuda, Atlantic	30.04	763.0	68	20.0	90	ssw.			6		5	ssw.						squally.
H. M. S. Minotaur, N. 36° 33′, W. 2° 37′	30.37	771.4	58.5	14.7	82	ne.			1		0							misty.
S. S. Ohio, (Am.) N 46° 22′, W. 46° 45′			30	— 1.1	100	wsw.			1		10		w.	4 h'r	4 h'r	mod.	wsw.	cloudy.
S. S. Pennsylvania, Delaware Bay			17	— 8.3	51	nnw.			6		5			8 h'r	8 h'r	mod.	n.	snowing.
S. S. Polynesian, N. 52° 19′, W. 38° 45′	29.67	753.6	32	0.0		wsw.			6		3		w.	4 h'r	4 h'r	r'gh	wsw.	squally.
S. S. Scandinavian, N. 49° 28′, W. 39° 38′	29.78	756.4	41	5.0		wsw.			7		10		wsw.	driz.	driz.	h'vy	wsw.	squally.
S. S. Carroll, N. 43° 15′, W. 66° 12′			16	— 8.9		n			4		8		n.	snow	snow	short	n.	snow squalls
S. S. Wisconsin, N. 41° 00′, W. 68° 00′	30.12	765.0	32	0.0		n.			3		10		w.	0	0	sli't	w.	cloudy.
S. S. Bohemia, Hamburg, Germany						wnw.			5		9			1 h'r	1 h'r			rainy
S. S. Archimedes, (Br.) N. 41° 32′ W. 48° 00′	29.67	753.6				ssw.			5		10		wsw.	14 h'r	14 h'r	mod.	var.	heavy rain.
S. S. Hevelius, Liverpool, Eng			43	6.1		w			5		9		wnw.	0	0			cloudy.
S. S. Teniers, N. 29° 00′, W. 18° 40′	30.23	767.8	68.9	20.5	91	calm			0		1			0	0	long	ese.	blue sky.
S. S. Archimede, (It.) Marseilles, France			60	15.6		ne.			1		1		ne.	0	0			clear.
S. S. Texas, N 31° 57, W. 40° 18′			64	17.8	67	wnw.			4		3?		w.	0	0	mod.	w.	cloudy.?
S. S. Erin, London, Eng	30.59	777.0	49	9.4		calm			0		10			0	0			dense fog.
S. S. Strassburg, N. 24° 15′, W. 21° 41′			74	23.3	63	ne.			3		4		ne.	0	0	3	ne.	light haze.
S. S. Rhynland, Jersey City, N.J	30.41	772.4	23?	—5.0?	73	n.			3		5		n.	0	0			fine.
S. S. Switzerland, N. 45° 56′ W. 49° 54′ *†	29.83	757.7				nnw.			2		10		wnw.	4 h'r	4 h'r	light	wnw.	cloudy.
S. S. Waesland, N. 43° 45′, W. 54° 55′	29.90	759.4	30	— 1.1		wnw.			5		10		wnw.	0	0	long	wnw.	cloudy.
S. S. P. Caland, N. 40° 30′, W. 71° 30′			20.5	—6.4	69	nw.			3		1		nw.			1	w.	clear.
S. S. W. A. Scholten, N. 46° 23′, W. 50° 02′			23.7	— 4.6	98	wnw.			6		8		wnw.	16 h'r	16 h'r	3	wnw	squally.
S. S. State of Nevada, N. 49° 33′, W. 40° 12′*†	29.85	758.2	38	3 3		w.			6		10		wnw.	4 h'r	4 h'r	long	wnw.	overcast.
S. S. Saxon, Philadelphia, Pa †	30.46	773.7	12	—11.1		nnw.			1		0							fine.
L. S. Celtic, Liverpool, Eng			49	9.4		n.			3		8		n.	0	0			cloudy.
S. S. Marengo, N. 47° 11′, W. 28° 29′			57	13.9		sse.			5		10		se.	4 h'r	4 h'r	mod.	sse.	light rain.
Bg. Alcira, N. 27° 14′, W. 63° 26′	30.22	767.6	68	20.0		wsw.			2		6?		wsw.	0	0	mod.	n.	clear.?
S. S. Antonio Lopez, Cadiz, Spain	30.35	770.9	56	13.3	63	nnw.			1		0			0	0			clear.
Bgt. Achsah, Clementsport, N. S†	30.16	766.3	3	—16.1		wnw.			4		5		wnw.					light snow.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Bayonnaise, N. 28° 17′, W. 59° 16′	30.38	771.6	70.7	21.5		w.			2		3			0	0	sm'h		clear.
Bk. Chas. Stewart, N. 10° 50′, W 32° 00′*†	30.12	765.0	79	26.1		ne.			6		2		ne.	0	0	long	n.	fair.
Schr. Clotilde, Key West, Fla†	30.18	766.6	70	21.1		ne.			2		2		w.	0	0			clear.
Bk. Celestina, N. 34° 44′, W. 11° 00′ *†	30.39	771.9				ne.			1-2		2		e.	0	0	long	nw.	clear.
Bk. C. S. Bushnell, N. 37° 19′, E 0° 37′	30.36	771.1				ene.			4		5		se.	0	0			
S. Dora, N. 62° 32′, W. 0° 15′*†	30.04	763.0	47.7	8.7		w.			3		6		wnw.	2 h'r	2 h'r	r'gh	wnw.	fair.
S. E. J. Spicer, N. 54° 00′, W. 4° 23′	30.67	779.0	48	8.9	85	sw.			4		10		wnw.	0	0	sm'h		hazy.
S. E. B. Sutton, N. 34° 50′, W. 35° 10′ *†	30.19	766.8	65	18.3	94	nnw.			4		5		nnw.	sq'lls	sq'lls	h'vy	w.	squally
S. Hedwig, N. 36° 27′, W. 3° 02′	30.37	771.4	61.5	16.4	85	calm			0		0			0	0			clear.
Bk. Heinrich & Tonio, N. 46° 40′. W 27° 30′ *†	30.23	767.8	58	14.4	91	sse.			4		8		sse.	14 h'r	14 h'	mod	se.	cloudy.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.38	771.6				ne.			6		10		ne.	0	0			cloudy.
S Henry, N. 41° 50′, W. 37° 34′*	29.95	760.7	60.8	16.0		se.			2-3		10					4	var.	cloudy.
Bk. Idaho, N. 32° 30′, W. 70° 10′*†	30.21	767.3				nnw.			4		9		wnw.	6 h'r	6 h'r	sli't	w.	cloudy.
Bg. John Wesley, Havana, Cuba, W. I						calm			0		0			0	0			clear.
Schr. John L. Thomas, Hobbles Cays, C. A†	30.00	762.0	77	25.0	86	ene.			4		2		e.	1 h'r	1 h'r	mod	ene.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadaloupe†	30.14	765.5				e.			1		3		e.	½ h'r	½ h'r			
S. S. Laurel, Egmont Key Light, Fla†	30.22	767.6	66	18.9		e			1		fg.			0	0			foggy.
S. S. Madrid, N 43° 14′, W. 9° 20′†	30.47	773.9	56	13.3	81	calm			0		0			0	0	sm'h		clear.
S. S. P. de Satrastegui, N. 24° 59′, W. 80° 41′	30.19	766.8				ene.			3		2			0	0	sm'h		clear.
Bg. Rising Sun, N. 31° 20′, W. 65° 30′†	30.10	764.5	70	21.1		wsw.			4		3		wsw.	0	0	long	wsw.	
Bk. Rosalie, N. 32° 49′, W. 35° 43′ *†	30.15	765.8				n.			5		4		nw.	1½ hr	1½ hr	long	nnw.	fair.
S. Salisbury, N. 32° 05′. W. 26° 04′	30.18	766.6	66.7	19.3	82	wsw.			4		4 k		wsw.	2 h'r	2 h'r	long	var.	fair.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.74	755.4	81	27.2	74	nne.			4		8		ne.			sm'h	ne.	fair
U. S. S. Pinta, Pernambuco, Brazil	30.09	764.3	80	26.7	78	ese.			2		8		se.					cloudy.
H. M. S. Amethyst, Maldonado Bay, Uruguay	29.71	754.6	83.5	28.6	58	nw.			5-6		8	sw.				2	nw.	squally.
H. M. S. Boadicea, St. Helena, Africa	30.04	763.0	76	24.4		e.			3		4	sse.						d. clouds.
H. M. S. Opal, S. 13° 55′, E. 12° 28′	29.94	760.5	76	24.4	86	s.			1		5	wsw.				3	s.	d. clouds.
H. M. S. Tyne, S. 8° 36′, W. 13° 58′	30.02	762.5	79	26.1	82	se.			2		8	calm				1	se.	misty.
H. P. M. S. Tejo, Zaire, Guinea	30.17	766.2	80.6	27.0	87	s.			2		10			0	0	1		overcast.
S. S. Sirius, Santos, Brazil	30.10	764.5				e.			1		4		e.	0	0			clear.
Bg. Daphne, S 1° 43′ W. 33° 38′*†	29.96	761.0	81	27.2	78	se.			4		4		se.	0	0	sm'h	var.	
Bk. Horace Scudder, S. 8° 49. E 10° 02′*†	30.11	764.8	80	26.7		nw.			1		2		sw.	0	0	light	s.	clear.
Bkt. Levanter, S. 10° 58′, W. 35° 20′*	30.11	764 8	82	27.8		ese.			4		5		se.	0	0	mod.	ese.	fair.
S. Parker M. Whitmore, S. 0° 39′, W. 27° 58′*†	29.99	761.7	83	28.3		se.			4		2		se.	0	0	sm'h		clear.
S. St. David, S. 49° 10′, W. 42° 58′ *†	29.43	747.5	49	9.4	85	nnw.			6		5		wnw.	1 h'r	1 h'r	high	var.	hazy.
S. David Stewart, Pernambuco, Brazil.†	29.82	757.4	84	28.9		se.			3		3		se.	0	0			
Bk. Godeffroy, S. 52° 29′, W. 52° 29′	29.12	739.6	45.1	7.3	91	sw.			5		10			6 h'r	6 h'r	mod.	var.	cloudy.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.00	762.0	38	3.3	45	n.			4		10		w.	0	0			cloudy.
U. S. S. Adams, Sitka, Alaska	29.68	753 9	41	5.8	91	e.			2		10							light rain.
U. S. S. Alert, N. 15° 30′, W. 175° 36′	29.92	760.0	76	24.4	86	nne.			4		8		ne.			long	nw.	fair
U. S. S. Essex, Canton, China	30.18	766.6	68	20.0	79	calm			0		2							clear.
U. S. S. Juniata, Shanghai, China	30.27	768.8	47	8.3	92	wnw.			1		10		calm	light	light			cloudy.
U. S. S. Monocacy, Shanghai, China	30.33	770.4	48	8.9	85	wnw.			2		10		nw.					cloudy.
H. M. S. Richmond, Shanghai, China	30.30	769.6	49	9.4	93	nnw.			2		8		nw.	1.5	38.			cloudy.
H. M. S. Audacious, Hong Kong, China	30.15	765.8	65	18.3	84	calm			0		10							overcast.
H. M. S. Cleopatra, off Amoy, China	30.11	764.8	61.5	16.4	85	ne.			1		0					small		blue sky.
H. M. S. Champion, Shanghai, China			48	8.9		calm			0		0							blue sky.
H. P. M. S. Tamega, Macao China	30.21	767.3	67.1	19.5	80	calm			0		0			0	0			blue sky.
S. S. Newbern, Mazatlan, Mexico*†	30.02	762.5	70	21.1	75	sw.			3		10		se.	light	light	small	sw.	cloudy.
S. S. Oregon, N. 40° 26′, E. 124° 40′†			49	9.4	93	wsw.			2		5		nne.			long	nnw.	fair.
S. S. Alameda, N. 36° 43′ W. 125° 24′†	30.09	764.3	47	8.3	92	nw.			1		7		w.	0	0	light	nnw.	fine.
S. S. Ancon, Point Buchan, Cal †	30.02	762.5	55	12.8	56	ne.			2		0			0	0	sm'h	w.	clear.
S. S. City of Chester, San Francisco, Cal†	30.08	764.0	48	8.9	56	ne.			4		0							
S. S. Orizaba, N. 37° 12′, W. (119°?) 40′†	30.05	763.3	47	8.3	77	n.			3		0			0	0	light	nw.	clear.
S. S. Queen of the Pacific, N. 41° 12′ W. 124° 35′†	30.08	764.0	49	9.4	93	sse.			1		0			0	0	sm'h		clear.
S. S. State of California, San Francisco, Cal.†	30.11	764.8	48	8.9	92	ne.			2		0							clear.
S. S. City of Pekin, N. 45° 05′, E. 179° 10′			40	4.4	56	nw.			2		2		n.					clear.
S. S. City of Rio de Janeiro, N. 36° 04′, W. 127° 06′†	30.10	764.5	52	11.1		w.			1		1		wsw.			long	wnw.	clear.
S. S. Colima, N. 28° 26′, W. 115° 50′†	29.95	760.7	57	13.9	63	nw.			3		5		nw.	0.05	1.3	mod.	wnw.	fair.
S. S. Granada, La Libertad, San Salvador			76	24.4	86	calm			0		0			0	0	light		clear
S. S. San Blas, N. 35° 06′, W. 121° 50′ †	30.07	763.8	50	10.0	?	calm			0		0			0	0	small	nw.	clear.
Bk. Alpheus Marshal, N. 7° 07′, E. 161° 58′ *†	29.69	754.1	81	27.2	83	ne.			5		3		nne.	0	0	mod.	nne.	clear.
S. S. Benalder, N. 9° 30′, E. 110° —′*	29.93	760.2	78	25.6	91	nne.			5		6		nne.	sh'rs	sh'rs	high	nne.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 19° 37′, W. 84° 19′	29.95	760.7	71	21.7	95	ese.			3		10			0	0	sm'h	s.	cloudy.
U. S. S. Lackawanna, S. 20° 21′, W. 77° 28′	29.92	760.0	68	20.0	84	ese.			2		10					sm'h	s.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.01	762.2	69	20.6	90	se.			1							mod.	w.	clear.
H. M. S. Wachusetts, Callao, Peru *†	29.93	760.2	66	18.9	100	s.			1		5		calm			sm'h		fair.
H. M. S. Diamond, S. 41° 21′, E. 149° 10′	29.84	757.9	56	13.3	81	s.			2-5		4	s.				6	s.	squally.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.41	747.0	57	13.9	87	calm			0		5					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.87	758.7	65	18.3		nne.			2								2	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.78	756.4	53	11.7	100	calm			0		9							d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.57	751.1	47	8.3	74	sw.			3-5		9							squally.
S. S. Australia, S. 34° 08′, E. 159 06′	29.89	759.2				sw.			4		3		wsw.	0	0	mod	sw.	clear.
S. S. City of Sydney, S. 0° 59′, W. 165° 59′*†	29.83	757.7	81	27.2	78	e.			2		8 k		e.			light	nw.	cloudy.
S. S. George S. Homer, S. 33° 15′, W. 122° 15′*†	30.10	764.5				wsw.			4		4		wsw.	10 h'r	10 h'r	mod.	sw.	rainy.
S. Ismir, S. 19° 45′, W. 73° 15′ *	30.19	766.8				calm			0		5		calm	0	0	long	ssw.	fair.
S. St. Francis, S. 29° 20′, W. 84° 23′*†	30.20	767.1	70	21.1	75	se.			2		1		w.	0	0	mod.	sw.	clear.
S. Grecian, S. 29° 17′, W. 127° —′†	30.11	764.8	77	25.0	86	nnw.			4		5		nw.	2 h'r	2 h'r	long	ssw.	fair.
S. Henry Failing, S. 33° 35′, W. 125° 14′ *†	30.00	762.0	70	21.1	95	se.			3		10		se.	10 h'r	10 h'r	long	sw.	raining.
H. M. S. Espiegle, S. 45° 49′, E. 170° 39′	28.90	734.0	55	12.8	67	sw.			2		8							squally.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Hellville, Nossi Be Island, Africa	29.83	757.7	84	28.9	83	wsw.	5	2.2			5		calm	0.27	6.9	sm'h		fair.
U. S. S. Pensacola, S. 17° 31′, E. 53° 07′*	29.78	756.4	83	28.3	75	se.			4		5		se.	light	light	long	se.	fair.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	29.96	761.0	83	28.3	75	calm			0		1					sm'h		blue sky.
H. M. S. Euryalus, Suakin, Egypt	29.94	760.5	79	26.1	86	e.			2		4	se.						d. clouds.
H. M. S. Orontes, S. 6° 10′, E. 39° 11′	29.86	758.4	84	28.9	87	ne.			4		2	ne.						d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.96	761.0	82	27.8	79	e.			1									d. clouds.
H. M. S. Woodlark, Suez Bay, Egypt	30.11	764.8	62	16.7	61	nnw.			3		0							misty.
S. S. Galatia, N. 6° 50′, E. 78° 35′ †	29.87	758.7	76	24 4	95	n.			3		6		ssw	0	0	mod.	se.	fair.
S. S. Port Phillip, S. 0° 01′, E. 68° 03′*	29.89	759.2	86	30.0		ne.			4							mod.	ne.	clear.
S. S. Radnorshire, N. 5° 58′, E. 92° 06′*†	29.92	760.0				ene.			4		1		ene.	0	0	mod.	ene.	clear.
S. S. Curondelet, S. 12° 57′, E. 121° 28′*†	29.71	754.0				wnw.			6		5		wnw.	3 h'r	3 h'r	r'gh	var.	fair.
S. S. Lepanto, Bombay, India	29.97	761.2				n.			1					0	0			clear.
H. M. S. Magpie, N. 7° 30′, E. 98° 19′	29.90	759.4	82.3	27.9	67	e.			1-3		0							blue sky.

International Chart I. January 16, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 17, 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.39	771.8	58.6	14.8	81	nw.			1		0?			0	0	fair?	Roziere.
Algiers			30.38	771.6	55.4	13.0	73	ene.			2		5			0	0	cloudy	Aubert.
La Galle			30.29	769.4	57.2	14.0	82	nnw.			3		4			0	0	cloudy	Fonfrède.
Tunis			30.20	767.0	55.4	13.0	64	ne.			3		5			0.087	2.2	cloudy	Delord.
Tebessa					46.4	8.0	78	s.			1		3			0	0	pretty fair	Hans.
Geriville					47.1	8.4	57	se.			2		1			0	0	very fair	Forfert.
Laghouat			30.39	772.0	52.5	11.4	81	nw.			2		0			0	0	clear	Abraham.
Biskra			30.33	770.3	54.3	12.4	63	n.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.92	760.0	63.0	17.2	60	calm	0	0			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.78	756.4	29.97	761.2	51.5	10.8	84	sse.			1		2		s.	0	0	clear	Com. I. Short, R.N.
Melbourne, Victoria	29.91	759.7	30.00	762.0	55.0	12.8	68	sse.	5	2.2			2			0.02	0.5	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.69	754.2	30.26	768.7	41.7	5.4	45	w.			2		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.28	743.7	30.08	763.9	38.1	3.4	93	wsw.	13.0	5.8			10			0.098	2.5		Dr. Wierzbiski
Eperies	29.06	738.2	29.97	761.2	39.2	4.0	78	nw.			3		8 ks		se.	0	0		Julius Mikolik.
Gratz	28.99	736.4	30.27	768.9	45.9	7.7	54	w.			2		6			0	0		Andreas Rospini.
Hermannstadt	28.49	723.7	29.97	761.2	36.0	2.7	94	wnw			5		10			0.091	2.3		Prof. A. Gottschling
Kremsmunster, Obs'y	29.05	737.8	30.45	773.3	39.7	4.3	85	w.			3		10			0	0	gloomy	The Staff.
Lemberg	28.82	732.0	29.84	757.9	35.6	2.0	75	n.			6		6			0.122	3.1		Dr. T. Stanecki.
Pola	30.17	766.3	30.28	769.2	48.4	9.1	69	wnw.			2		4			0	0		I. R. Hydrographic Office.
Szathmar	29.46	748.3	29.95	760.6	34.0	1.1	94	w.			5		10			0.035	0.9		Joseph Midlinszky, S. J
Szegedin	29.78	756.3	30.06	763.6	44.2	6.8	60	w.			4		6			0	0		Karl Stancel.
Trieste	30.23	767.9	30.33	770.4	46.4	8.0	62	calm			0		6			0	0		Royal Academy.
Vienna	29.54	750.2	30.27	768.9	45.0	7.2	66	wnw.			7		10			0.008	0.2		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.81	731.8	30.24	768.0	41.9	5.5	89	n.			1		3			0.039	1.0		
Brussels	30.41	772.4	30.62	777.7	41.0	5.5	95	w.			2		10			0.008	0.2	foggy	
Furnes	30.60	777.2	30.62	777.7	41.5	5.3	92	sw.			1		10			0	0		
Maeseyck	30.47	773.8	30.59	777.0	46.8	8.2	73	nw.			1		10			0.020	0.5	dense fog	
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			30.57	776.5	43.7	6.5	88	s.	7	3.1			9					overcast	John Hartnup.
Bolton, Sharples	30.00	762.0	30.55	776.0	40.5	4.7	100	ssw.	6	2.7			10					foggy	Thomas Mackereth.
Bradford, Yorkshire	30.12	765.0	30.52	775.2	46.1	7.8	81	w.			2		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.07	763.8	30.10	764.5	80	26.7	74	ne.			2		3					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	30.49	774.4	30.61	777.5	39.8	4.3	93	w			0.4		10					overcast	John McLaren.
Chatham, School M. E.	30.43	772.9	30.62	777.7	39.7	4.3	96	nw.			1		10					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.39	771.9	30.63	778.0	47.4	8.6	81	ssw.			1		10					overcast	The Staff.
Fort Napier, Natal	27.74	704.6	30.05	763.3	70.2	21.2	65	ne.			1		10					overcast	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	88	31.1	55	s.			6		3					d. clouds	J. W. Smith.
Galway, Queen's College					48	8.9	92	sw.			1		8			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.33	770.4	30.38	771.6	59.0	15.0	88	ne.			4		9					gloomy	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	30.43	772.9	30.61	777.5	40.0	4.4	91	wsw.			2		10					drizzling	The Staff.
Guernsey	30.33	770.4	30.64	778.2	48.5	9.2	89	nne.			1		8					d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	30.58	776.7	30.62	777.7	41.2	5.1	84	w.	7	3.1			10					overcast	The Staff.
Leicester, Museum	30.29	769.4	30.56	776.2	40.1	4.5	88	w.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.12	765.0	30.20	767.1	54.2	12.3	58	ne.			2		3			0.10	2.5	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.22	767.6	30.27	768.8	72.8	22.7	85	e.			1		5					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.38	771.6	30.60	777.2	41.0	5.0	87	w.			1		10					overcast	The Staff.
Plymouth	30.53	775.4	30.61	777.5	45.7	7.6	89	ne.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.20	767.1	30.30	769.6	46.4	8.0	88						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.99	761.7	30.06	763.5	43.8	6.6	70	wsw.			2		1					blue sky	W. H. Lyne.
Sheffield	30.26	768.6	30.56	776.2	44.7	7.1	84	calm			0		9			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.46	773.7	30.49	774.4	45.6	7.6	100	sw.			2		10			0.016	0.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.56	776.2	42.9	6.1	93	w.	4	1.8			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					42.7	5.9	93	w.			1.0		10					overcast	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.46	773.7	30.48	774.2	51.6	10.9	88	s.	21	9.4			10					gloomy	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.84	757.9	30.24	768.1	51.4	10.8	47	n.	7.5	3.4		0	2 s			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.20	767.1	30.26	768.6	—25.0	—31.7		sw.	2.5	1.1		4 cs	0			inap.	inap.	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.13	765.3	30.18	766.6	— 5	—20.6	100	wsw.	3	1.3		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.10	764.5	30.18	766.6	—26	—32.2	100	w.	2	0.9		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.86	758.4	30.07	763.8	13.2	—10.4	89	w.			1		10 n			inap.	inap.	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.09	764.3	30.15	765.8	—25.0	—31.7		calm			0	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.02	762.5	30.04	763.0	—10	—23.3	100	s.	5	2.2			10 s		s.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.69	728.7	29.55	750.6	28	— 2.2	80	w.	19	8.5		5 cs	0	W.		0.05	1.3	fair	James Stewart.
Fredericton, N. B.	30.16	766.1	30.24	768.1	—27.9	—33.3	100	calm	0	0		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.16	766.1	30.21	767.3	16	— 8.9	64	w.	10	4.5			10 ks		W.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	29.11	739.4	30.31	769.9	14.5	— 9.7	96	sw.	9	4.0			10 s			0	0	gloomy	Jas. Grant.
Halifax, N. S*	30.10	764.5	30.24	768.1	3	—16.1	100	w.	3	1.3		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.72	754.9	30.15	765.8	18.2	— 7.7	84	sw.			2	8 ck	0	sw.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.85	756.0	30.17	766.3	17	— 8.3	80	w.	12	5.4		5 cs	0	W.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.07	763.8	30.11	764.8	40.0	4.4	91	wsw.	2	0.9		2 k	0	W.		0	0	blue sky	O. H. Rigby.
London, Ontario	29.28	743.7	30.26	768.6	14.8	— 9.6	72	sw.			1	3 k	0			0	0	d. clouds	E. B. Reed.
Medicine Hat, N. W. T.	27.52	699.0	29.85	758.2	34	1.1	92	sw	20	8.9		8 cs	0			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	27.58	700.5	29.57	751.1	24	— 4.4	96	w.	10	4.5		2 cs	2 s	W.	W.	0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.88	758.9	30.11	764.8	12	—11.1	96	sw.	12	5.4			10 n			inap.	inap.	light snow	C. H. McLeod, O. E.
Ottawa, Ontario	29.85	758.2	30.09	764.3	12.8	—10.7	91	wnw.					10 s					snowy	A. McGill, M. A.
Parry Sound, Ontario*	29.30	744.2	30.04	763.0	21	— 6.1	84	sw.	8	3.6			10 n		sw.	0.42	10.7	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.50	749.3	30.31	769.9	12.7	—10.7	63	sw.			2	0	5 ks			0	0	d. clouds	Wm. O'Connor, M.A.
Port Arthur	28.81	731.8	29.55	750.6	17	— 8.3	87	calm	0	0			10 n			0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.51	749.5	30.26	768.6	18	— 7.8	100	sw.	12	5.4		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.58	751.3	30.28	769.1	19	— 7.2	80	n.	25	11.2		0	0			0	0	clear	M. Payne.
Qu'Appelle, N. W. T	27.45	697.6	29.79	756.7	26	— 3.3		nw.	15	6.7		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.69	754.1	30.10	764.5	— 6	—21.1	71	calm	0	0		10 cs	0	sw.		0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.53	750.0	30.03	762.7	2	—16.7	91	calm	0	0			10 s		W.	0.01	0.3	light snow	W. H. McIntyre.
St. Andrews, N. B	30.14	765.5	30.19	766.8	7	—13.9	91	W.	5	2.2			10 n			0	0	cloudy	
St. John, N. B	30.05	763.3	30.21	767.3	4.2	—15.4	92	w	8	3.6		0	0			0	0	hazy	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			29.92	760.0	14.0	—10.0		nw.			3								The Commandant.
Saugeen, Ontario*	29.36	745.7	30.12	765.0	23	— 5.0	91	sw.	24	10.7			10 s			0	0	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.98	733.8	30.28	769.1	15.3	— 9.3	82	w.	5	2.2			10 n			0	0	d. clouds	W. Mc Bride, M. A.
Sydney, C. B*	30.09	764.3	30.16	766.1	— 6	—21.1	100	sw.	8	3.6		0	8 k		w.	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.80	756.9	30.21	767.3	18	— 7.8	83	w.	13	5.8			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.13	739.9	30.29	769.4	16.8	— 8.5	80	sw.	16	7.2			10 s			0	0	gloomy	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.17	766.3	30.24	768.1	18	— 7.8	73	nw.	11	4.9			10 k		w.	0.01	0.3	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.11	764.8	30.14	765.5	71.0	21.7	75	se.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.84	757.9			78.2	25.7	40	ne.											Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4			93	33.9	29									0	0		J. F. Eustace
Chilian.																			
Coquimbo	29.87	758.6	29.95	760.6	62.8	17.1	89	n.			3	10	0					drizzling	Samuel Redolez.
Iquique	29.91	759.6	29.93	760.3	76.1	24.5	66	sw.			2	3 c	0					foggy	Rafael Moreno.
Niebla	29.35	745.5	29.46	748.2	61.9	16.6	92	nw.			4	5	5		nw.	0.677	17.2	raining	Federico Köhling.
Punta Caldera	29.85	758.3	29.94	760.5	66.2	19.0	83	sw.			1	6 c	c	sw.	sw.			cloudy	Manuel Tobar.
Punta Corona	29.61	752.2	29.80	756.9				w.			2	0	4 n		e.	1.063	27.0	fair	Francisco Alvarado.
Valparaiso	29.72	754.9	29.86	758.4	66.6	19.2	81	s.				0	0					clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.53	775.4	30.55	776.0	32.7	0.4	70	n.	7.2	3.2			0			0	0		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.17	766.2	30.21	767.4	41.4	5.2	90	nw.	13	6			7						Oversergent Fischer.
Fanöe	30.35	770.9	30.37	771.4	41.5	5.3	96	wnw.			6		10					hazy	Overloerer Lauridsen.
Godthaab, Greenland	29.35	745.4	29.39	746.5	5.7	—14.6	87	n.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.35	745.4	29.39	746.5	36.3	2.4	74	sw.			6		10					snowing	A. O. Thorlacius.
Thorshavn	29.95	760.7	29.97	761.3	47.1	8.4	93	sw.	31	14			10					raining	Overloerer Bergh.
Vestervig	30.19	766.8	30.28	769.2	44.1	6.7	96	nw.			4		5						Loerer Oesterbol.
Egyptian.																			
Cairo	30.01	762.3			62.6	17		w.	4.5	2.0		0	2 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.88	759.0	30.55	776.0	44.6	7	85	n.			1					0	0	dense mist.	M. Labroue, Director.
Alençon, Normal School	30.13	765.2	30.68	779.2	40.3	4.6	97	ne.			1		10 n		sw.	0	0	covered	M. Nicot, Director.
Arras, Normal School			30.57	776.5	35.6	2	96	w.			1		10			0	0	covered	M. Ungerer, Director.
Avignon, Normal School	30.28	769.1	30.36	771.1	50.4	10.2	52	nnw.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.01	762.3	30.56	776.1	44.8	7.1	77	e.			1		5		e.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	30.37	771.4	30.65	778.6	36.7	2.6	96	nw.			1		10			0.016	0.4	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.55	750.6	30.48	774.2	45.9	7.7	88	ene.			2		cn		w.	0	0		M. Gobin, Director.
Bordeaux, Observatory	30.19	766.7	30.46	773.6	45.1	7.3	80	ne.			1		0			0.012	0.3	clear	M. Rayet, Director.
Bourges, Normal School	29.96	760.9	30.52	775.3	49.1	9.5	61	nw.			1		k		nw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	30.38	771.6	30.62	777.8	47.1	8.4	83	e.			1		9		e.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.51	774.9	30.59	777.0	39.6	4.2	97	n.			1		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	30.27	768.8	30.60	777.3	46.4	8.0	80	nne.			1		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	30.08	763.9	30.60	777.1	40.5	4.7	69	n.			1		0			0	0	clear	M. Noël, Director.
Clermont-Ferrand Obs'y	29.13	739.8	30.53	775.4	46.0	7.8	72	n.			1		5			0.004	0.1		M. Allnard, Director.
Cluny, Normal School	29.62	752.4	30.50	774.8	44.6	7	86	n.			4		3	n.	n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.71	754.7	30.59	777.0	44.8	7.1	81	nw.			1		5 ns	nw.	nw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.78	705.7	30.40	772.2	41.9	5.5	54	n.			4		0			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.16	740.7	30.31	769.8	52.7	11.5	61	nw.			2		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.70	754.3	30.50	774.8	39.6	4.2	74	e.			1					0	0		M. Ablard, Director.
Guéret, Normal School	28.92	734.5	30.57	776.5	39.2	4	67	nw.			4		u		nw.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Poilpre, Director
Lescar, Normal School	29.87	758.6	30.46	773.7	50.0	10.0	35	ne.			1		k			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.52	775.1	30.62	777.7	51.1	10.6	62	ese.			1		0			0	0	clear	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.41	747.0	30.51	775.0	40.5	4.7	89	n.			1		8 n		n.	0	0	very cloudy	M. André, Director.
Mans, Normal School	30.33	770.4	30.66	778.7	36.5	2.5		ne.			1		10			0	0	foggy	M. Richard, Director.
Marseille, Observatory	30.03	762.8	30.31	769.8	52.5	11.4	48	wsw.			1		0			0	0	misty	M. Stephan, Director.
Montlouis	25.07	636.7	29.91	759.7	46.4	8.0	40	n.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.22	767.6	30.33	770.4	56.5	13.6	85	n.			2		1		s.	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.80	756.9	30.62	777.7	45.0	7.2	100	wnw.			1		kn		ne.	0	0		M. Hasse, Director.
Nantes, Observatory	30.47	774.0	30.63	778.1	42.6	5.9	90	ene.			0–1		10 n		ene.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.28	769.2	30.40	772.1	55.9	13.3	41	nw.	7.4	3.3			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.46	545.2			33.8	1.0							0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.33	744.9	30.42	772.7	47.3	8.5	72	n.			1		n	n.	n.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.43	645.9			29.1	— 1.6	100	ene.			4		10			0.165	4.2		M. Allnard.
Rochefort, Naval Obs'y	30.51	774.9	30.54	775.7	47.5	8.6	78	nne.			4		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.30	769.6	30.52	775.2	45.7	7.6	94	e.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.22	716.7	30.43	773.0	41.9	5.5		nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.64	778.3	30.69	779.5	35.2	1.8	96	n.			1					0	0	foggy	M. Mouillot, Dir.
St. Lô, Normal School			30.52	775.2	42.8	6.0	91	ne.			1		0			0	0	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	30.45	773.4	30.61	777.6	46.8	8.2	80	nne.			1					0	0		M. Renou, Director.
Toulouse, Observatory	29.83	757.7	30.57	776.4	40.6	4.8	87	se.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.43	772.8	30.60	777.3	43.2	6.2	94	ne.			1				ne.	0.008	0.2		M. de Tastes.
Versailles, Observatory	30.11	764.8	30.60	777.3	39.2	4.0	100	n.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.35	770.8	30.50	774.6	40.5	4.7	93	nw.	4.0	1.8			10			0	0	foggy	M. Cartier, Director.
German.																			
Ansbach	29.04	737.7	30.57	776.4	39.9	4.4	79	nw.			2		10	nw.		0.067	1.7		Prof. Jnedt.
Bamberg	29.59	751.6	30.45	773.4	41.4	5.2	60	w.			3		7 k		w.	0.039	1.0		Prof. Dr. Hoh.
Berlin	30.14	765.6	30.29	769.4	43.2	6.2	88	nw.			2		10			0.039	1.0		Meteorological Institute
Breslau	29.66	753.4	30.20	767.0	40.1	4.5	90	nw.			4		10			0.008	0.2	rainy	Royal University Obs'y
Carlsruhe	30.10	764.5	30.58	776.8	45.7	7.6	72	w.			1		5	nw.		0	0		Albert Senz.
Cassel	29.77	756.1	30.48	774.2	44.1	6.7	73	nw.			2		9	nw.		0.031	0.8		Dr. H. Möhl.
Frankfort-on-the-Main	30.17	766.4	30.56	776.1	45.7	7.6	77	wnw.			1		10			0	0		Physical Society.
Friedrichshafen	29.08	738.5	30.55	775.9	43.5	6.4	90	se.			1		8	e.		0	0		Wilhelm, Chief Tel.
Hamburg	30.32	770.1	30.41	772.4	43.2	6.2	90	nw.			4		10			0	0	light fog	E. Preiler.
Kiel	30.34	770.7	30.36	771.1	44.1	6.7	86	wnw.			4		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.97	761.2	30.45	773.3	42.8	6.0	88	nw.			3		10	nw.		0.051	1.3	light rain	H. Leppig, Asst.
Magdeburg	30.19	766.7	30.39	771.8	43.3	6.3	87	wnw.			3		10			0.004	0.1		Weather Observatory.
Memel	30.00	761.9	30.04	763.1	31.8	— 0.1	96	nne.			5		5 k						Issermann.
Munich	28.65	727.7	30.54	775.8	38.3	3.5	87	nw.			4		10	w.		0.043	1.1		Central Station.
Neufahrwasser	30.10	764.4	30.11	764.8	37.9	3.3	76	n.			3		9			0	0		A. Lothes.
Neustadt, Palatinate	30.00	762.1	30.54	775.7	46.4	8.0	69	nnw.			3		10			0	0		Dicknether.
Stuttgart	29.57	751.1	30.50	774.7	43.7	6.5	72	nw.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.22	767.7	30.25	768.3	40.5	4.7	90	nw.			4		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.71	754.5	30.10	764.6	46.4	8.0		n.			2.5	0	3 k			0	0		Schmidt & Wourlisch.
Indian.																			
Karrachee	30.04	762.9	30.09	764.2	72.0	22.2	52	n.	15.0	6.7			0			0	0	blue sky	
Deesa	29.52	749.9	30.01	762.2	72.2	22.3	33	nne.	10.0	4.5			1	ne.		0	0	d. clouds	
Bombay	29.94	760.5	29.98	761.5	72.9	22.7	65	nnw.	17.0	7.6			0			0	0	blue sky	
Poona, Yarrowda	28.06	712.8	29.96	761.0	69.8	21.0	42	nw.	9.0	4.0			2			0.11	2.8	d. clouds	
Belgaum	27.37	695.3	29.94	760.5	70.5	21.4	30	sse.	9.0	4.0			1		s.	0.01	0.3	d. clouds	
Lahore	29.29	744.0	30.07	763.7	63.1	17.3	57	calm	0	0			0			0	0	blue sky	
Roorkee	29.13	739.9	30.06	763.5	66.8	19.3	50	calm	0	0			1			0	0	blue sky	
Agra	29.48	748.6	30.06	763.6	66.3	19.1	60	ne.					10		ne.	0	0	overcast	
Nagpur	28.89	733.7	29.96	761.0	67.2	19.6	68	se.	4.0	1.8			5		sw.	0.67	17.0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.60	726.5	30.01	762.2	63.8	17.7	66	w.	3.2	1.4			10		w.	0.39	9.9	raining	
Lucknow	29.66	753.2	30.05	763.2	66.3	19.1	57	calm	0	0			10			0	0		
Allahabad	29.71	754.6	30.03	762.8	64.8	18.2	72	ne.	2.0	0.9			10			0	0	gloomy	
Patna	29.86	758.4	30.08	763.3	69.3	20.7	57	e.	4.2	1.9			10	e.	e	0	0	overcast	
Hazaribagh	27.97	710.3	30.04	762.9	64.5	18.1	46	calm	0	0			10	e.		0	0	overcast	
Cuttack	29.95	760 8	30.04	762.9	71.0	21.7	65	ese.	1.0	0.4			6			0	0	d. clouds	
Calcutta, Alipore	30.01	762.3	30.03	762.8	65.5	18.6	79	calm	0	0			6			0	0	d. clouds	
Dhubri	29.95	760.6	30.07	763.8	67.9	19.9	60	se.	1.5	0.7			10		w.	0	0	gloomy	
Chittagong	29.96	760.0	30.05	763.3	68.1	20.1	79	calm	2.7	1.2			9			0	0	d. clouds	
Sibsagar	29.76	755.9	30.12	765.0	57.9	14.4	81	ne.	1.0	0.4			6	w.	w.	0	0	d. clouds	
Jeypore	28.58	725.8	30.06	763.6	67.8	19.9	47	ene.	6.0	2.7			5		ene.	0	0	d. clouds	
Zanzibar	29.81	757.1	29.83	757.6	84.9	29.4	54	ne.	9.7	4.3			1			0	0	d. clouds	
Bellary	28.40	721.3			78.4	25.8	43	nw.	2	0.9		0	0			0	0	blue sky	
Trichinopoly	29.66	753 4			82.7	28.2	49	ene.	0.2	0.04		3	3			0	0	d. clouds	
ITALIAN.																			
Udine	29.88	759.0	30.31	769.8	46.8	8.2	43	calm	0	0			8			0	0		Prof. Giovanni Clodig.
Milan	29.82	757.4	30.36	771.1	41.7	5.4	65	s.	1.3	0.6			1			0	0		Prof. G. V. Schiapparelli
Padua	30.20	767.1	30.32	770 0	40.5	4.7	77	calm	0	0			2			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.40	746.8	30.35	770 8	41.2	6.8	49	nne.	2.5	1.1			0			0	0		Prof. F. F. Denza.
Genoa	30.13	765.2	30.32	770.2	55.4	13.0	64	se.	0.7	0.3			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.20	768.7	30.32	770.0	42.6	5.9	64	n.	6.3	2.8			2	ne.		0	0		Prof. Luigi Guidi.
Florence	30.03	762 7	30.29	769.4	41.4	5.2	59	ne.			2		0			0	0		Prof. Costantino Pittei
Leghorn	30.19	766.6	30.28	769.1	49.6	9.8	76	ne.	3.1	1.4			3			0	0		Prof. P. Monte.
Rome	30.10	764.6	30.28	769.2	54.1	12.3	34	nne.	0.7	0.3			1			0	0		Prof. P. Tacchini.
Lecce	29.91	759.6	30.17	766.3	50.0	10.0	57	nne.	18.6	8.3			0			0	0		Prof. C. de Giorgi.
Cosenza	29.30	744.3	30.23	767.8	43.5	6.4	70	wnw.	3.1	1.4			5	nw.		0	0		Prof. D. Conti.
Cagliari	30.11	764.8	30.31	769.8	55.6	13.1	65	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	30.02	762 4	30.27	768.9	52.5	11.4	48	nne.	9.8	4.4			1	nne		0.110	2.8		Prof. G. Caccciatore.
Syracuse	30.11	764.8	30.15	765.9	52.7	11.5	58	n.	18.6	8.3			3	nne.		0.138	3.5		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.72	755.0	30.26	768.6	52.3	11.3	55	ne.	1.8	0.8			1			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.94	760.4	29.97	761.3	24.8	— 4.0	93	e.			2		9 n		w.	0.087	2.2	snowing	H. Hattori.
Awomori	29.91	759.7	29.95	760.7	11.1	—11.6	81	s.	2.9	1.3		0	0			0.043	1.1	clear	K. Ogawa.
Hakodate	29.94	760.4	29.95	760.7	18.0	— 7.4	81	calm	0	0			9 s			0	0	overcast	Y. Souma.
Hamamatsu	29.78	756.4	29.88	758.9	37.5	3.1	77	calm			0	0	8 s		w.	0	0	cloudy	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.00	762.0	30.02	762.4	34.3	1.3	92	se.	0.5	0.3		0	4 s			0	0	fair	Y. Okamoto.
Kagoshima	30.10	765.1	30.17	766.3	42.4	5.8	73	nw.			4		10 n			0.087	2.2	light rain	
Kanazawa	29.73	755 1	29.84	757.8	33.0	0.6	86	e.	0.3	2.8			10 n			0.647	16.4	snowing	S. Endo.
Kioto	29.71	754.6	29.88	759.0	36.1	2.3	87	ssw.	2.7	1.2		0	3 s			0.022	0.0	fair	M. Tojima.
Kochi	29.95	760 8	29.97	761.3	41.1	5.1	61	w.	26.3	11.7		0	4 s			0	0	fair	K. Kusunose.
Miasaka	30.09	764 2	30.11	764.9	40.7	4.8	71	w.			6	0	0			0	0	clear	K. Masusaki.
Miyako	29.85	758.3	29.96	761.1	22.6	— 5.2	63	wsw.	1.1	0.4		0	0			0	0	clear	N. Homo & K. Suwa.
Nagasaki, I. M. Obs'y	29.97	761.2	30.18	766.6	39.0	4.4	56	nw.	12.0	5.4		0	3 s			0.020	0.5		
Nemuro	29.00	759.5	29.95	760.7	23.5	— 4.7	64	nw.	3.0	1.3			9 s			0	0	cloudy	A Shibuya.
Niigata	29.88	758.9	29.92	759.9	30.2	— 1.0	84	e.	2.1	0.9			10s;ks		w.	0.030	0.8	covered	Satoo & Tomikawa.
Nobiru	29.95	760 7	29.96	761.1	23.0	— 5.0	94	nnw.	1.5	0.7		0	1 ks			0	0	clear	Yoshino & Midzushina.
Numadzu	29.83	757.7	29.86	758 5	40.1	4.5	79	ne.			1		10 ks			0	0	cloudy	T. Ohgi.
Osaka	29.89	759.1	29.90	759.5	40.1	4.5	83	w.	16.0	7.1			10 n			0.010	0.2	light rain	H. Omura.
Sakai	29.88	759.0	29.89	759.2	38.0	3.3	79	w.			4		10 n		w.	0.618	15.7	snowing	Yamawchi & Sakamoto.
Sapporo	29.91	759 7	29.98	761.4	14.5	— 9.7	94	calm	0	0		0	1 s			0.110	2.8	clear	S. Kimura.
Shimonoseki	29.94	760 4	30.08	764.1	39.6	4.2	48	wsw.			6		10 s		nw.	0.059	1.5	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.80	757.0	29.88	758.9	39.4	4.1	63	e.	6.8	3.0			10 s			0.109	2.8	covered	The Staff.
Wakayama	29.85	758 2	29.91	759.6	42.4	5.8	65	w.	21.5	9.6		0	0			0	0	clear	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.71	754.6	29.90	759.4	82.0	27.8	61	e.	19.5	8.7		0	5 k		e.	0.06	1.5	fair	The Staff.
MEXICAN.																			
Leon	24.38	619.2	30.12	765.0	54.0	12.2	79	calm	0	0		2 c	5ck;s			0	0	cloudy	M. Leal & M. Pina.
Mazatlan	29.88	758 9	30.14	765.6	68.0	20.0	70	ne.	1.6	0.8			10 n		sw.	0.079	2.0	covered	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.63	777.9	30.63	777 9	41.4	5.2		w.			3					0	0		
Groningen	30.53	775.4	30.58	776.8	41.4	5.0		nw.			1					0	0		
Helder	30.55	775.9	30.55	775.9	40.8	4.9		w.			2					0	0		
Hellevoetsluis	30.61	777.4	30.61	777.4	50.5	10.3	94	w.			3					0	0		
Utrecht	30.54	775.8	30.66	777.2	42.6	5.9	90	wnw.			2		2			0	0	foggy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.3			79.3	26.3	86	n.	0	0			2			0.646	16.4		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.21	767.3	30.27	768.9	45.0	7.2	98	ssw.	7	3			10			0	0		
Brono	29.84	758.0	29.88	759.0	41.0	5.0	92	ssw.			6		10			0.039	1.0	raining	
Christiania	29.98	761.5	30.13	765.4	29.8	— 1.2	88	sw.	4	2			8			0	0	foggy	
Gjæsvær	30.03	762.7	30.05	763.3	11.8	—11.2		se.			9		0			0	0		
Lodingen	29.84	757.8	29.88	759.0	27.9	— 2.3	67	se.			5		10			1.126	28.6		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.25	768.4	30.34	770.7	61.3	16.3	74	ese.	2.5	1.1			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.10	764.5	30.45	773.4	46.6	8.1	75	nne.	8.1	3.6			0			0	0		The Staff.
Ponta Delgada, Azores	30.08	764.0	30.15	765.8	61.9	16.6	83	se.	5.6	2.5			3			0.228	5.8		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.12	765.1	30.15	765.9	72.3	22.4	81	nne			3		3			0	0		
San Salvador, Congo	28.08	713.2	29.91	759 6	79.7	26.5	70	w.			2		9			0	0		
Serra da Estrella	25.59	649.9	30.30	769.5	55.8	13.2	26	calm	0	0			0			0	0		
RUSSIAN.																			
Akmolinski	28.84	732 6	30.05	763.3	— 3.1	—19.5	94	w.	9	4		0	0			0	0		Major K. Lasarew.
Archangel	30.08	704.0	30.10	764.5	— 2.6	—19.2	86	e.	4	2			10			0.059	1.5		Capt. Sseliwerstow
Ashuradn	30.03	762.8	29.94	760.4	50.4	10.2	89	ese.	4	2		0	3 k			0.004	0.1		
Astrakhan	30.00	761.9	29.92	759.9	28.8	— 1.8	54	se.	18	8			10			0.118	3.0	h'vy clouds	Capt. Wisganow.
Baku	30.10	764.6	30.06	763.4	45.3	7.4	72	nnw.	13	6		0	0			0	0		
Barnaul	29.52	749.9	30.07	763.7	9.7	—12.4	85	sw.	13	6			1			0.063	1.6		Meteorological Office.
Bielosersk	29.45	747.9	29.90	761.0	2.7	—16.3	88	ne.	7	3			10 ks			0.004	0.1		
Dorpat	29.72	754.8	29.98	761.5	16.7	— 8.5	85	ne.	7	3		0	3 ks			0	0		Observatory.
Ekaterinburg	28.95	735.2	30.02	762.5	— 3.8	—19.9	87	wnw.	9	4		0	0			0	0	foggy	Meteorological Obs'y.
Elissawetgrad	29.08	738.7	29.55	750 5	30.7	— 0.7	98	w.	9	4			10 n			0.051	1.5		
Kasan	29.60	751.9	29.90	759.4	10.0	—11.9	89	e.	9	4			10			0.024	0.6	light snow	Observatory.
Kem	30.12	765.0	30.17	766.3	5.7	—14.6	91	n.	9	4			10			0	0	h'vy clouds	
Kerten	29.74	755.3	29.76	755.9	33.8	1.0	92	calm	0	0			10 n			0	0		Lagorio & Sastyrez.
Kieff	28.83	732.2	29.48	748.9	28.6	— 1.9	86	nw.	18	8			10 n			0.063	1.6	snowing	Observatory.
Koslov	28.98	736.0	29.50	749.4	21.7	— 5.7	88	s.	18	8			10 s			0.102	2.6	snowing	
Lgov	28.80	731.5	29.40	746.8	28.2	— 2.1	76	w.	9	4		0	4			0.024	0.6	snowing	R. I. Ssaweljew, Engin'r.
Libau	30.01	762 3	30.04	762.9	32.5	0.3	63	n.	13	6			6			0	0		E. Quass.
Lugan	29.45	747.9	29.66	753.4	23.0	— 5.0	71	sw.	4	2			10			0.020	0.5		Meteorological Obs'y
Moscow	28.93	734.8	29.44	747.7	18.0	— 7.8	82	ese.	4.5	2.0			10 s			0.075	1.9	snowing	Meteorological Obs'y
Nertschinsk	28.05	712.4	30.80	782.4	—30.3	—34.6	85	calm	0	0			0			0	0		

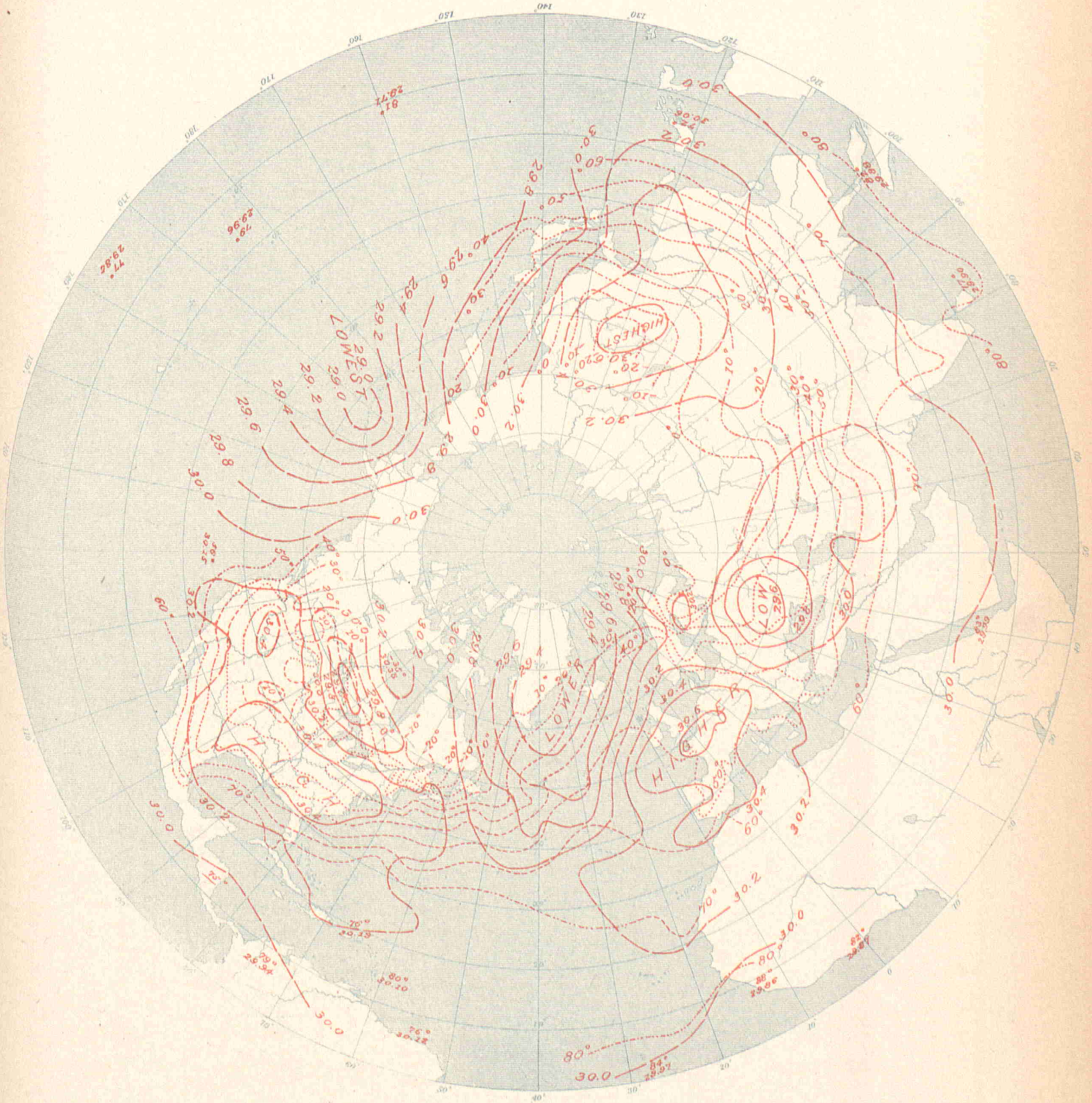
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaiev	29.57	751.0	29.64	752.8	34.5	1.4	87	sw.	18	8		0	4 n			0.181	4.6		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	30.06	763.5	30.15	765.7	8.6	—13.0	87	w.	4	2			10 n						Iwanow.
Pekin, China	30.31	769.8	30.45	773.4	21.2	— 6.0	59	calm	0	0		0	0			0	0		Physical Observatory
Petro-Alexandrovsk	29.50	749.4	29.87	758.7	35.2	1.8	95	ne.	2	1			10 n						
Petrozavodsk	29.82	757.5	30.05	763.2	— 6.9	—21.6	78	nw.	7	3		0	0			0.039	1.0		Dr. Bergmann.
Pinsk	29.22	742.1	29.73	755.2	28.8	— 1.8	70	nnw.	45	20			10 n			0.028	0.7	sleeting	
Poti	29.89	759.1	29.92	759.9	42.6	5.9	91	sw.	7	3			10 n			0.398	10.1	raining	
St. Petersburg	29.94	760.4	29.96	761.0	14.5	— 9.7	91	nne.	9	4			9 ks			0.142	3.6		Central Physical Obs'y.
Samarkand	27.43	696.6	29.87	758.6	57.2	14.0	47	calm	0	0		0	8 k						
Semipalatinsk	29.44	747.8	30.16	766.0	13.5	—10.3	87	calm	0	0			6			0	0		Major Lasarew
Sevastopol	29.55	750.5	29.77	756.1	38.5	3.6	80	w.	40	18			10 n			0.232	5.9	h'vy clouds.	
Staroi Bykhov	28.95	735.2	29.53	750.1	16.0	— 8.9	81	n.	22	10			10			0.071	1.8	snowing	
Tashkend, Laboratory	28.28	718.4	29.97	761.2	49.5	9.7	69	calm	0	0			10 n						Terch, A. M
Tiflis	28.49	723.7	29.94	760.4	44.8	7.1	65	n.	4	2		6 ck	0			0	0		Physical Observatory.
Vernoe	27.41	696.1	30.02	762.6	28.4	— 2.0	82	calm	0	0		0	6 k						
Viatka	29.34	745.1	30.04	763.0	— 2.6	—19.2	92	s.	7	3			5			0	0		
Vladivostock	30.22	767.7	30.29	769.4	— 6.3	—21.3	76	n.	27	12		0	0			0	0		
Warsaw	29.54	750.4	29.98	761.5	37.2	2.9	74	n.	11	5			10			0	0	h'vy clouds	Astronomical Obs'y.
Yeniseisk	29.71	754.7	30.03	762.8	2.5	—16.4	87	se.	11	5			10			0.020	0.5	snowing	M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.82	732.0	29.39	746.5	18.5	— 7.5	85	ene.	19	8.5			10 n		e.	0.07	1.8	snowing	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.28	769.2	30.40	772.1	55.8	13.2	65	sw.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.44	773.2	30.50	774.7	46.9	8.3	88	se.	2.2	1.0		3	4	e.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.39	695.8	30.44	773.1	47.8	8.8	50	n.	4.9	2.2		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.15	715.1	30.46	773.7	47.5	8.6	64	se.	2.7	1.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.28	769.0	30.41	772.4	59.2	15.1	93	ssw.	2.2	1.0		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.45	748.0	30.37	771.3	54.1	12.3	62	calm	0	0			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.12	765.1	30.19	766.8	67.7	19.8	91	calm	0	0		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.00	761.9	30.06	763.4	72.2	22.3	72	ene.	3.3	1.5		0	0			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.31	769.9	30.41	772.5	61.0	16.1	65	e.	16.8	7.5		0	1		e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.10	764.5	30.19	766.8	76.3	24.6	71	calm	0	0		4 cs	3 k	e.	s.	0	0		Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	30.22	767.5	30.26	768.5	—14.4	—25.8	100	n.			2		0			0	0		
Umea	30.19	766.8	30.24	768.1	4.6	—15.2	91	ne.			4		10			0.169	4.3		
Hernosand	30.04	763.9	30.13	765.2	22.6	— 5.2	96	ne.			2		10			0	0		
Stockholm	29.96	761.0	30.14	765.5	31.3	— 0.4	70	wsw.			2		10			0	0		
Wisby	30.00	761.9	30.09	763.4	35.2	1.8	63	ne.			6		5			0	0		
Sub-series.																			
Upsala	30.03	762.7	30.11	764.9	28.8	— 1.8	79	wnw.	0	0			9		nnw.	inap.	inap.		H. H. Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.09	764.2	42.4	5.8	74	n.	3	1.5			2		sw.	0.077	2.0		The Observatory.
Valona			30.11	764.9	52.2	11.2		ne.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.12	765.0	62.1	16.7	57	sw.			2		0			0	0		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.25	768.3	30.34	770.6	17	— 8.3	62	s.	8	3.6			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.33	745.0	30.04	763.0	20	— 6.7	84	sw.	10	4.5		6 k	3 s	sw.		0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	30.22	767.6	29.7	— 1.3	93	se.	2	0.9			10 s		se.	0.35	8.9	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.07	687.6	30.11	764.8	34.2	1.2	81	sw.	24	10.7		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.23	742.4	30.40	773.7	36.2	2.3	91	n.	3	1.3			10s;fg			0.27	6.9	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.42	772.7	30.43	772.9	13.0	—10.6	61	n.	3	1.3		0	0			0	0	clear	B. A. Blundon.
Augusta, Georgia	30.30	769.6	30.50	774.7	42.3	5.7	89	ne.	1	0.4			10 s			0.10	2.5	cloudy	W. J. Evans.
Baltimore, Maryland	30.45	773.4	30.50	774.7	19	— 7.2	61	w.	3	1.3		0	8 k		w.	0	0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	30.40	772.1	30.42	772.7	14.0	—10.0	72	w.	15	6.7		0	3 s			0	0	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.39	721.1	30.13	765.3	18.0	— 7.8	70	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.26	692.4	30.24	768.1	38.0	3.3	72	sw.	8	3.6			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.03	711.9	30.03	762.7	25	— 3.9	76	w.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.32	770.1	30.35	770.9	18.0	— 7.8	74	nw.	9	4.0		3 cs	2 ks		nw.	inap.	inap.	fair	J. T. Elker.
Boise City, Idaho	27.50	698.5	30.43	772.9	11	—11.7	91	w.	3	1.3		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	30.19	766.8	30.30	771.1	12.5	—10.8	70	w.	10	4.5		3 c	4 s			0	0	fair	O. B. Cole.
Brownsville, Texas	30.26	768.6	30.32	770.1	41.4	5.2	100	n.	13	5.8			10 n			0.29	7.4	light rain	John McGlone.
Buffalo, New York	29.48	748.8	30.27	768.8	17.3	— 8.2	83	sw.	20	8.9		2 ck	3 s	sw.	sw.	0.01	0.3	fair	Wm. Finn.
Buford, Fort, Dakota	27.81	706.4	30.04	763.0	20.3	— 6.5	94	sw.	2	0.9		4 cs	0	w.		0	0	fair	A. Schneider.
Cairo, Illinois	30.10	764.5	30.52	775.2	24.0	— 4.4	83	nw.	2	0.9		0	4 s			0	0	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.89	759.2	30.09	764.3	46.0	7.8	83	se.	21	9.4			10 ks		se.	0	0	cloudy	J. H. Young.
Cape Henry, Virginia	30.49	774.4	30.51	774.9	27.0	— 2.8	88	nw.	12	5.4			10 s			0	0	cloudy	A. K. Alderson
Cape May, New Jersey	30.45	773.4	30.48	774.2	22.0	— 5.6	58	nw.	24	10.7		6 ck	0	nw.		0	0	fair	W. E. Smith.
Cape Mendocino, California	29.46	748.3	30.16	766.1	44	6.7	71	se.	9	4.0		0	0			0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.34	770.6	30.36	771.1	52.0	11.1	96	n.	11	4.9			10 s		ne.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.37	771.4	30.43	772.9	41.5	5.3	100	n.	11	4.9			10 n		n.	0.04	1.0	light rain	J. H. Smith.
Charlotte, N. Carolina	29.58	751.3	30.47	773.9	37.3	2.9	88	se.	1	0.4			10s;fg		e.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.02	752.3	30.48	774.2	33.0	0.6	78	nw.	2	0.9		9 ck	0	w.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.04	610.6	30.31	769.9	15.6	— 9.1	73	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.50	749.3	30.25	768.3	21.1	— 6.1	68	ne.	10	4.5		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.49	774.4	30.51	774.9	22.5	— 5.3	88	nw.	10	4.5			10 ks		nw.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.80	756.9	30.49	774.4	17.8	— 7.9	70	s.	2	0.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.55	750.6	30.33	770.4	19.0	— 7.2	70	sw.	16	7.2		0	0			inap.	inap.	clear	W. Line.
Columbus, Ohio	29.52	749.8	30.42	772.7	14.2	— 9.9	74	s.	4	1.8		0	0			0	0	clear	F. T. Williams.
Concho, Fort, Texas	28.44	722.4	30.46	773.7	30.0	— 1.1	100	calm	0	0			10 n			0.27	6.9	light rain	C. E. King.
Custer, Fort, Montana	26.83	681.5	30.21	767.3	10	—12.2	60	e.	6	2.7		0	0			0	0	clear	W. J. Daily.
Davenport, Iowa	29.55	750.6	30.26	768.6	19	— 7.2	53	sw.	7	3.1		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.34	643.6	30.32	770.1	20.2	— 6.6	100	n.	3	1.3			10 s			0.05	1.3	cloudy	J. Williams.
Dayton, Washington T'y	28.55	725.2	30.36	771.1	22.4	— 5.3	94	ne.	2	0.9		4 ck	0			0	0	fair	H. S. Blandford.
Deadwood, Dakota	25.33	643.4	30.28	769.1	35.0	1.7	79	sw.	1	0.4		0	0			0	0	clear	G. Kingsbury.
Delaware Breakwater, Del.	30.46	773.7	30.48	774.2	21.1	— 6.1	68	w.	12	5.4		hz.	5 k		w.	0	0	fair	G. A. Martin.
Denver, Colorado	24.81	630.2	30.33	770.4	19.0	— 7.2	68	s.	10	4.5		0	0			0	0	clear	F. M. Nett.
Des Moines, Iowa	29.29	744.0	30.26	768.5	23	— 5.0	73	w.	5	2.2		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.55	750.6	30.31	769.9	23.0	— 5.0	73	w.	8	3.6		0	0			0.02	0.5	clear	N. B. Conger.
Dodge City, Kansas	27.65	702.3	30.40	772.1	11	—11.7	80	w.	4	1.8		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.46	748.3	30.23	767.8	19.2	— 7.1	66	s.	4	1.8		0	0			inap.	inap.	clear	J. Harvey Smith
Duluth, Minnesota	28.99	736.3	29.80	756.9	20	— 6.7	70	sw.	12	5.4			10 s		sw.	0	0	cloudy	E. R. Brace.
Eastport, Maine	30.13	765.3	30.20	767.1	10.0	—12.2	80	sw.	5	2.2			10 s		sw.	0	0	cloudy	D. C. Murpay.
Elliott, Fort, Texas	27.53	699.2	30.46	773.7	27.8	— 2.3	94	calm	0	0			10 s			0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.43	671.3	30.31	769.9	31.2	— 0.1	88	e.	4	1.8			10 s		e.	0.36	9.1	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.54	750.3	30.31	769.9	19.0	— 7.2	84	sw.	12	5.4		0	0			inap.	inap.	clear	C. A. Shaw.
Escanaba, Michigan	29.24	742.7	29.96	761.0	9.5	—12.5	83	s.	8	3.6		7ck;cs	0	nw.		inap.	inap.	fair	L. M. Pindell.
Fort Smith, Arkansas	29.98	761.5	30.48	774.2	30.0	— 1.1	88	se.	2	0.9			10 s			0	0	cloudy	J. B. Campbell.
Galveston, Texas	30.28	769.1	30.32	770.1	41	5.0	92	ne.	14	6.3			10 n			1.69	42.9	heavy rain	E. O'C. Macinerney
Grand Haven, Michigan	29.44	747.8	30.15	765.8	29.0	— 1.7	82	s.	16	7.2		0	9 s		sw.	0.01	0.3	cloudy	Joseph E. Mueller
Grant, Fort, Arizona	25.25	641.3	30.15	765.8	32.8	0.4	94	se.	10	4.5			10 s		se.	0.38	9.7	cloudy	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.43	772.9	30.44	773.2	32.0	0.0	100	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.18	4.6	heavy snow	R. M. Crawford.
Helena, Montana	25.95	659.1	30.33	770.4	.....	.....	.....	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.68	728.5	30.22	767.6	21.2	— 6.0	77	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.55	750.6	30.39	771.9	21.3	— 5.9	75	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.27	768.8	30.30	769.6	42.0	5.6	100	n.	21	9.4	.....	.....	10 n	.....	.....	0.22	5.6	light rain	I. A. Reed.
Jacksonville Florida	30.36	771.1	30.41	772.4	48.2	9.0	83	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.63	752.6	30.33	770.4	20.0	— 6.7	76	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.17	766.3	30.19	766.8	71	21.7	94	e.	7	3.1	.....	0	1 k	.....	e.	0.04	1.0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.46	773.7	30.48	774.2	32.0	0.0	78	ne.	6	2.7	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	Wesley Blake.
Knoxville, Tennessee	29.42	747.3	30.50	774.7	28.2	— 2.1	92	ne.	1	0.4	.....	5c;cs	sk.	w.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.27	743.4	30.11	764.8	19.5	— 6.9	76	s.	6	2.7	.....	5 ck	4 s	nw.	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.42	747.3	30.38	771.6	22	— 5.6	73	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	29.44	747.8	30.31	769.9	27.0	— 2.8	64	ne.	4	1.8	.....	6 cs	0	.....	.....	0	0	fair	C. E. Butler.
Little Rock, Arkansas	30.15	765.8	30.48	774.2	32.0	0.0	78	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.81	757.2	30.21	767.3	42.0	5.6	50	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.87	758.7	30.46	773.7	22.0	— 5.6	73	s.	3	1.3	.....	0	1 s	.....	.....	0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.77	756.1	30.49	774.4	24.0	— 4.4	61	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.27	743.4	29.97	761.2	25.5	— 3.6	80	w.	12	5.4	.....	.....	10 s	.....	.....	1.20	30.5	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.45	773.4	30.46	773.7	30.5	— 0.8	94	n.	11	4.9	.....	.....	10 n	.....	.....	0.01	0.3	light snow	William Daly.
Maginnis, Fort, Montana	25.44	646.2	30.21	767.3	30.3	— 0.9	60	nw.	24	10.7	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.07	738.4	29.85	758.2	20.5	— 6.4	70	s.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	30.13	765.3	30.49	774.4	29	— 1.7	88	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.38	746.2	30.18	766.6	17.5	— 8.1	72	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	S. W. Rhode.
Mobile, Alabama	30.38	771.6	30.42	772.7	41.3	5.2	92	n.	9	4.0	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	H. U. Jones.
Montgomery, Alabama	30.22	767.6	30.46	773.7	41	5.0	92	n.	3	1.3	.....	.....	10s;fg	.....	n.	0.31	7.9	dense fog	Geo. E. Franklin.
Moorhead, Minnesota	28.78	731.0	29.89	759.2	27.2	— 2.7	88	s.	18	8.0	.....	.....	10 s	.....	s.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.35	593.1	29.08	761.5	— 7.0	—21.7	73	nw.	48	21.5	.....	.....	fg.	.....	nw.	0.07	1.8	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.89	759.2	30.50	774.7	26.0	— 3.3	90	nw.	1	0.4	.....	10 cs	0	sw.	.....	0	0	cloudy	L. N. Jesunofsky
New Haven, Connecticut	30.25	768.3	30.37	771.4	10	—12.2	89	w	4	1.8	.....	2 c	hz.	w.	.....	0	0	dense haze	J. H. Sherman.
New London, Connecticut	30.35	770.9	30.40	772.1	14.0	—10.0	64	nw.	6	2.7	.....	7 cs	0	.....	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.31	769.9	30.37	771.4	44.0	6.7	88	ne.	12	5.4	.....	.....	10s;fg	.....	ne.	0.12	3.0	cloudy	M. Herman.
New York, New York	30.23	767.8	30.42	772.7	11.0	—11.7	64	w.	5	2.2	.....	0	6 s	.....	.....	0	0	fair	H. J. Penrod.
Norfolk, Virginia	30.44	773.2	30.47	773.9	29.7	— 1.6	70	ne.	4	1.8	.....	.....	10s;fg	.....	.....	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.21	691.1	30.33	770.4	11.8	—11.2	73	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	30.10	764.5	30.14	765.5	30.0	— 1.1	78	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair	J. Dascomb
Omaha, Nebraska	29.03	737.3	30.30	769.6	23.0	— 5.0	70	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	29.87	758.7	30.22	767.6	23.8	— 4.6	51	sw	13	5.8	.....	8 cs	0	w.	.....	0.18	4.6	cloudy	J. G. Linsley.
Palestine, Texas	29.86	758.4	30.44	773.2	35.0	1.7	89	ne.	3	1.3	.....	.....	10 s	.....	ne.	0.36	9.1	cloudy	P. T. Jenkins.
Pensacola, Florida	30.37	771.4	30.40	772.1	45.7	7.6	86	n.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.36	771.1	30.47	773.9	14.7	— 9.6	67	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	30.46	773.7	2.0	—16.7	66	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.56	750.8	30.41	772.4	18.5	— 7.5	84	nw.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. A. Garden.
Port Huron, Michigan	29.49	749.0	30.22	767.6	—0.5	—18.1	83	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	30.17	766.3	30.22	767.6	12.0	—11.1	61	w.	6	2.7	.....	50s;hz	0	.....	.....	0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.08	764.0	30.16	766.1	34.0	1.1	78	calm	0	0	.....	9 ck	0	w.	.....	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.80	629.9	30.18	766.6	31.5	— 0.3	86	se.	2	0.9	.....	.....	10 s	.....	ne.	0.15	3.8	cloudy	N. D. Lane.
Provincetown, Mass	30.29	769.4	30.32	770.1	16.9	— 8.4	76	nw.	12	5.4	.....	9 cs	0	nw.	.....	0	0	cloudy	C. N. Kitchel.
Red Bluff, California	29.88	758.9	30.25	768.3	34	1.1	71	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.16	766.1	30.41	772.4	42.5	5.8	89	nw	7	3.1	.....	.....	10 ks	.....	nw.	0.15	3.8	cloudy	L. G. Schultz.
Rochester, N. Y	29.53	750.0	30.24	768.1	19	— 7.2	84	w.	25	11.2	.....	.....	10 k	.....	w.	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.62	752.3	30.19	766.8	29	— 1.7	89	ne.	1	0.4	.....	8 cs	0	w.	.....	0	0	cloudy	J. J. Naury.
Sacramento, California	30.16	766.1	30.24	768.1	36.5	2.5	94	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.80	756.9	30.46	773.7	25.5	— 3.6	87	s.	11	4.9	.....	0	sk.	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.66	753.4	29.70	754.4	— 4	—20.0	100	ne.	.....	.....	1	.....	10 n	.....	.....	0.11	2.8	light snow	Fred. H. Clarke
St. Paul, Minnesota	29.06	738.1	30.00	762.0	17.5	— 8.1	100	calm	0	0	.....	0	1 s	.....	.....	inap.	inap.	clear	P. F. Lyons.
St. Vincent, Minnesota	28.71	729.2	29.69	754.1	31	— 0.6	73	w.	16	7.2	.....	3 cs	0	.....	.....	0	0	clear	O. B. Dilley
Salt Lake City, Utah	25.89	657.6	30.46	773.7	12.3	—10.9	44	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.10	764.5	30.17	766.3	44.3	6.8	43	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.61	752.1	30.33	770.4	21	— 6.1	70	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.40	772.1	30.43	772.9	10.3	—12.1	38	w.	20	8.9	.....	2 c	0	.....	.....	0	0	clear	V. P. Chappel.
Sanford, Florida	30.25	768.3	30.30	769.6	56.0	13.3	86	n.	17	7.6	.....	.....	10 ks	.....	ne.	0	0	cloudy	J. B. Marbury
San Francisco, California	30.15	765.8	30.22	767.6	45.5	7.5	87	nw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.35	770.9	30.45	773.4	43.7	6.5	65	n.	6	2.7	.....	.....	10 n	.....	n.	inap.	inap.	light rain	R. M. Geddings.
Shaw, Fort, Montana	26.32	668.5	30.18	766.6	36	2.2	64	sw.	18	8.0	.....	9 k	0	.....	.....	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.19	766.8	30.44	773.2	33.3	0.7	81	ne.	6	2.7	.....	.....	10 s	.....	ne.	0.19	4.8	cloudy	E. N. Meekins.
Sitka, Alaska	30.04	763.0	30.11	764.8	33	0.6	88	e.	2	0.9	.....	0	0	.....	.....	0.30	7.6	clear	F. W. Fickett.
Smithville North Carolina	30.41	772.4	30.45	773.4	33.8	1.0	86	n.	6	2.7	.....	.....	10 n	.....	n.	0.04	1.0	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.12	714.2	30.26	768.6	17	— 8.3	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.65	753.1	30.38	771.6	23.0	— 5.0	77	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.23	691.6	30.37	771.4	30.0	— 1.1	100	ne.	2	0.9	.....	.....	10 n	.....	.....	0.06	1.5	heavy sleet	J. W. Byram.
Tatoosh Id., Wash. Ter	29.98	761.5	.....	.....	37.6	3.1	89	e.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.41	696.2	30.24	768.1	36.5	2.5	79	calm	.....	.....	0	.....	10 n	.....	.....	0.06	1.5	light rain	R. C. Lord.
Toledo, Ohio	29.57	751.1	30.31	769.9	20	— 6.7	72	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. Buell.
Unalashka, Alaska	28.86	733.0	28.88	733.5	38	3.3	89	se.	24	10.7	.....	.....	10 n	.....	.....	3.66	93.0	light rain	Samuel Applegate
Vicksburg, Mississippi	30.19	766.8	30.46	773.7	34.0	1.1	79	ne.	6	2.7	.....	.....	10 s	.....	n.	0.47	11.9	cloudy	C. Dill.
Washington, D. C.	30.41	772.4	30.53	775.4	17.0	— 8.3	80	nw.	3	1.3	.....	4 k	0	nw.	.....	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	26.20	665.5	30.33	770.4	— 3	—19.4	100	w	6	2.7	.....	7 c	0	w.	.....	0	0	fair	F. H. Brandenburg
Wilmington, N. Carolina	30.41	772.4	30.47	773.9	33.8	1.0	82	ne.	6	2.7	.....	.....	10 n	.....	.....	0.12	3.0	light rain	L. H. Albrecht.
Yankton, Dakota	28.76	730.5	30.18	766.6	25.8	— 3.4	72	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	29.99	761.7	30.14	765.5	48.8	9.3	38	nw.	1	0.4	.....	0	3 s	.....	sw.	inap.	inap.	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.83	757.7	29.85	758.2	24.9	— 3.9	92	ne.	23	10.3	.....	.....	10 n	.....	.....	0.01	0.3	snowing	George Cherunick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	77	25.0	.....	n.	.....	.....	1	0	2 k	.....	n.	0.27	6.9	fair	W. H. Jackson.
Bogota, U. S. C.	22.02	559.3	.....	.....	53.6	12.0	83	e.	2	1	.....	.....	9 k	.....	.....	0.012	0.3	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.81	757.9	30.00	762.0	—37	—38.3	100	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.14	765.5	66.3	19.1	86	n.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.12	765.0	30.12	765.0	76	24.4	91	e.	.....	.....	3	.....	10 n	e.	e.	0.620	15.7	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.38	746.2	29.94	760.5	79	26.1	95	s.	.....	.....	1	3 ck	4 ks	s.	s.	0	0	cloudy	Francisco J. Cisnero.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75.1	23.9	91	ne.	.....	.....	3	.....	ks	.....	ne.	0	0	clear	Earl Flint.
York Factory, B. A.	30.30	769.6	30.38	771.6	—35.0	—37.2	.....	sw.	1	0.4	.....	0	1 s	.....	sw.	0	0	.....	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.92	759.9	29.93	760.1	79.5	26.4	84	n.	11.4	5.1	.....	0	5 kc	.....	n.	.....	.....	fair	P. Fasiani.
Naós, Bay of Panama	29.88	759.0	29.95	760.7	76.3	24.6	87	n.	.....	.....	4	0	2 k	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.																		
S. S. Alleghany, Montauk Pt. N. Y†	30.43	772.9	20	— 6.7		w.			3		2		sw.	0	0			clear.
Schr. Anna A. Holton, N. 36° 23′, W. 69° 01′ *†	30.24	768.1				n.			4		10		n.	7 h'r	7 h'r	mod.	ne.	drizzling.
S. S. Arizona, N. 47° 03′, W. 43° 05′			30	— 1.1		wnw.			5		8		nw	0	0	high	wnw.	hail sq'ls.
S. S. British Prince, N. 51° 28′ W. 9° 13′†	30.44	773.2				ssw.			4		9		sw.	0	0	mod.	ssw.	overcast.
S. S. Belgenland, N. 48° 48′, W. 34° 09′*†	29.55	750.6	49	9.4	86	wnw.			7				w.	rain	rain	r'gh	wnw	overcast.
S. S. City of Augusta, New York, N. Y †	30.35	770.9				wsw.			4		8		wsw.	0	0			cloudy.
S. S. Canada, (Br) N. 46° 06′, W. 38° 07′ †	29.72	754.9	51	10.6		nnw.			6		10		nnw.	5 h'r	5 h'r	mod.	nnw.	cloudy.
S. S. Canada, (Fr) N. 40° 36′, W. 68° 24′			32.0	0.		nw.			2		10		w.	snow	snow	sm'll	w.	covered.
Bk. Diamant, N. 40° 58′, W. 66° 22′	30.35	770.9	33.8	1.0	88	nnw.			5		10		nw.			4	nw.	overcast
S. S. Dorian, N. 33° 34′, W. 54° 51′	30.14	765.5	65	18.3		nne.			4		6	sw.	nne.	0	0	long	w.	fair.
S. S. Denmark, N. 48° 35′, W. 37° 15′ †	29.63	752.6	43	6.1	83	wsw.			7		10		wsw.	8 h'r	8 h'r	h'vy	wsw.	showery.
S. S. Daniel Steinmann, N. 50° 17′, W. 35° 00′ †	29.47	748.5	48	8.9		w			6		9		w.	4 h'r	4 h'r	hv'y	wsw.	raining.
Bg. Gipsy Queen, N. 33° 00′ W. 75° 55′						n.			7		7		n.	driz.	driz.	short	ne.	stormy.
S. S. Iowa, N. 42° 52′, W. 60° 10′	30.19	766.8	24	— 4.4		nw.			3		9		nw.	4 h'r	4 h'r	sm'll	nw.	cloudy.
S. S. Lord Gough, N. 41° 15′, W. 66° 40′*	30.21	768.1	28	— 2.2		w.			3		10		w.	0	0	sm'll		cloudy.
S. S. Llandaff City, N. 49° 17′. W. 28° 59′*†	29.60	751.8	50	10.0		s			7		10		sw.	4 h'r	4 h'r	high	sw.	stormy.
S. S. Lessing, N. 43° 06′, W. 51° 52′	29.94	760.5	30	— 1.1		w.			4		7		w.	5 h'r	5 h'r	mod.	wnw.	fair.
S. S. Labrador, N. 48° 27′, W. 40° 05′ *†	29.69	754.1	37.4	3		wnw.			6		9		w.			large	w.	fair.
S. S. Main, N. 46° 10′, W. 48° 18′	29.86	758.4	23.0	— 5.0		w.			6		7		w.	6 h'r	6 h'r	r'gh	w.	squally.
S. S. Neckar, N. 41° 58′, W. 41° 50′	29.83	757.7	42.0	5.6	91	nne.			4–5		7		nnw.	sh'rs	sh'rs	mod.	nnw.	
Schr. Maggie Abbott, N. 34° 05′, W. 73° 00′						ne.			4		10		ne.	h'vy	h'vy	long	n.	cloudy.
Bk. Matthias, N. 35° 42′. W. 64° 48′*†	30.26	768 6	52.5	11.4		nw.			4–5		10		nw.	0	0	3	nw.	hazy.
S. S. Nova Scotian, off York Spit, Va	30.54	775.7	28	— 2.2		nw.			3		0					sm'll		clear.
S. S. Nederland, N. 40° 34′, W. 67° 33			27	— 2.8	100	wnw.			4		2		wnw.	3 h'r	3 h'r	sm'll	w.	fair.
S. S. Nurnberg, N. 48° 10, W. 37° 12′	29.56	750.8	44.6	7.0		nw.			6		10		nw.	6 h'r	6 h'r	high	cross	misty.
S. S. Oregon, (Br) N. 47° 06′, W. 45° 02′	29.76	755.9	26	— 3.3		w.			5		9		w.			sharp	w	cloudy.
S. S. Picqua, N. 37° 00′, W. 50° 20′ *†	30.00	762.0	58	14.4	76	nw.			4				wnw.	light	light	light	nw.	cloudy.
S. S. Rhein, N. 49° 50′, W. 16° 47′	30.50	774.7				sw.			5		8		sw.	4 h'r	4 h'r	high	sw.	cloudy.
S. S. Republic, N. 49° 35′, W. 24° 50′*†	29.91	759.7	55	12.8		sw.			6		9		sw.	0	0	mod.	s.	misty.
S. S. Romano, N. 40° 53′, W. 67° 49′			28	— 2.2		w.			2		3		w.	snow	snow	sm'll		clear.
Bk. Rosina, N. 31° 34′, W. 68° 47′	30.39	771 9	70	21.1		calm			0		10			0	0	h'vy	nnw.	stormy.
S. S. State of Georgia, N. 50° 49′, W. 36° —′†	29.59	751.6	45	7.2		w.			6		8		w.	hail	hail	r'gh	var.	cloudy.
S. S. Salier, N. 46° 50′, W. 50° 00′ *	29.90	759.4				w.			6		7		w.	1 h'r	1 h'r	cross	w.	fair.
Bgt. Sunlight, N. 13° 07′, W. 61° 11′ †	30.13	765.3				ne.			5		3		ne.	0	0	sm'll		fair.
S. S. Thingvalla, N. 57° 25′, W. 21° 10′†	29.71	754.6	48.2	9		sse.			6		10		sse.	12 h'r	12 h'r	h'vy	sw.	raining.
S. S. Valencia, La Guayra, Venezuela†	30.07	763.8	76	24.4	88	ne.			5		9		ne.	0	0	h'vy	nne.	cloudy.
S. S. Westphalia, N. 48° 09′. W. 38° 04′			54	12.2	86	wnw.			6		10			7 h'r	7 h'r	cross	nw.	rainy.
S. S. Zaandam, N. 50° 17′, W. 27° 15′	29.70	754.4	58.3	14.6	98	ssw.			6		10			4 h'r	4 h'r	cross	ssw.	hazy.
Bk. Ariadne, N. 37° 04′, W. 72° 34′	30.45	773.4	36	2.2		nnw.			4		8		nw.	0	0	mod.	nne.	cloudy.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I			72	22.2		calm			0		0			0	0			clear
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.25	768.3				calm			0		fg.			0	0	sm'll		foggy
Bk. Agreola, N. 3° 31′, W. 42° 36′			90?	32.2?		ene.			5				e.	1 h'r	1 h'r	mod	ese.	squally.
U. S. S. Alliance, N. 19° 54′, W. 75° 53′	30.10	764.5	76	24.4	73	n.			2		2		calm	0	0	long	ne.	clear.
S. S. Bothnia, N. 49° 20′, W. 37° 03′	29.50	749.3	58	14.4	46	w.			5		10		w.	4 h'r	4 h'r	cl'd	sw.	showery.
S. S. Chalmette, N. 29° 22′, W. 89° 30′†	30.31	769.9	47	8.3		ne.			5		8		e.	3 h'r	3 h'r	mod.	ne.	cloudy.
S. S. Dominion, N 48° 00′, W. 47° 12′*†.	29.81	757.2	21	— 6.1		w			6		10		w.			r'gh	w.	cloudy.
Schr. Ellen Crusoe, N. 24° 57′ W. 71° 30′*†	30.30	769.6				ne.							ne.	2 h'r	2 h'r	long	nne.	fine.
S. S. Gallia, N. 51° 22′, W. 10° 01′	30.43	772.9	54	12.2		sw.			5		10		sw.	0	0	sm'll		overcast.
S. S. Germanic, N 50° 51′, W. 23° 14′*†	29.95	760.7	53	11.7	93	s.			6		10		s.	3 h'r	3 h'r	long	wsw.	
S. S. Grecian, N. 44° 00′, W. 9° 08′	30.41	772.4	53	11.7	79	e.			4		5		e.	0	0	light	e.	fair.
Bg. John Welsh, jr, N. 28° 40′, W. 91° 20′						nnw.			2		10		nnw.			long	ne.	light rain.
S. S. Lone Star, N. 31° 34′, W. 79° 00′						nne.			6		10		nne.	4 h'r	4 h'r	high	nne.	heavy rain.
S. S. Muriel, Martinique, W. I	30.09	764.3	79	26.1		e.			3		0			0	0	sm'll		clear.
S. S. Orinoco, Bermuda, Atlantic	30.22	767 6	64	17.8		ne.			3		10		ne.	2 h'r	2 h'r			cloudy.
Bk. Saga, N. 24° 32′, W. 66° 23′ *†	30.24	768 0	74	23.3		ne.			1–2		2		nne.	0	0	long		fair.
S. Storm King, N. 38° 45′, W. 34° 10 *†	30.10	764.5				ssw.			4		2		ssw.	0	0	long	w;e.	clear.
S. S. Salerno, Hull, Eng †	30.52	775.2	42	5.6		wsw.			2		10		w.	0	0			cloudy.
S. S. St. Laurent, Havre, France	30.56	776.2	41.0	5		n.								0	0			misty.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.23	767.8	74	23.3	72	e.			3		0			0	0			clear.
U. S. S. Tennessee, N. 17° 33′, W. 75° 00′ *	30.03	762.7	78	25.6	69	se.	28	12.5			5		se.	0.04	1.0	mod.	se.	fair.
U. S. S. Vandalia, Port of Spain, Trinidad, W. I	30.07	763.8	77	25.0	73	calm			0		8		calm					cloudy.
S. S. Venetian, N. 42° 21′, W. 67° 05′*	30.21	767.3	26	— 3.3		wsw.			2–4		10		sw.	3 h'r	3 h'r	mod.	sw.	gloomy.
S. S. Wyoming, N. 51° 24′ W. 11° 31′.	30.45	773.4	51	10.6		s.			4		6		ssw.	0	0	sm'll		fair.
S. S. Westernland, Antwerp, Belgium	30.64	778.2	47	8.3		nw.			3		10		nw.	0	0			foggy.
U. S. Navy Yard, Portsmouth, N. H.			11	—11.7	80	nw.	10	4.5			0			0	0			clear
U. S. S. Kearsarge, Spezia, Italy	30.30	769.6	49	9.4	78	n.			1		0							clear.
U. S. S. Lancaster, Leghorn, Italy			51	10.6	93	calm			0		0			0	0	sm'll		clear.
U. S. S. New Hampshire, Newport, R. I	30.37	771.4	15	— 9.4	82	w.			1		8					sm'll		fair.
U. S. S. Quinnebaug, Leghorn, Italy	30.27	768.8	54	12.2	74	ne.			1		0					sm'll		clear
U. S. S. Shenandoah, N. 25° 14′. W. 23° 07′ *	30.33	770.4	71	21.7	90	sse.			2		10					sm'll		cloudy.
U. S. S. Trenton, Marseilles, France	30.36	771.1			90	ne.			1		0							clear.
H. M. S. Alexandra, Malta, Mediterranean	30.24	768.1	54	12.2	67	nne.			3		6	nne.						d. clouds
H. M. S. Alecto, N. 5° 05′. W. 1° 19′	29.87	758.7	82	27.8		ssw.			1							4	s.	misty.
H. M. S. Comus, N. 16° 55′. W. 25° 00′	30.14	765 5	72	22.2	71	nne.			3									d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.16	766.1	60	15.6	82	n.			3		6	nne.						d. clouds.
H. M. S. Minotaur, N. 37° 45′, 00° 00′	30.46	773.7	57	13.9	81	nnw.			1		6	nnw.						d. clouds.
S. S. Ohio, (Am) N. 44° 52′. W. 52° 30′ *†	29.90	759.4	28	— 2.2	88	w.			4		10		w.	10 h'r	10 h'r	mod.	w.	squally.
S. S Pennsylvania, Philadelphia, Pa †	30.46	773.7	10	—12.2	100	sw.			4		6?		sw.	10 h'r	10 h'r			clear.
S. S. Polynesian, N. 50° 28′, W. 43° 38′	29.59	751.6	36	2.2		wsw.			6		9		wsw.	5 h'r	5 h'r	r'gh	wsw.	snowing.
S. S. Scandinavian, N. 47° 47′, W. 44° 24′	29.80	756.9	24	— 4.4		w.			6		10		w.	snow	snow	sm'll	w.	snowing.
S. S. Scythia, N. 40° 41′, W. 67° 35′	30.36	771.1	26	— 3.3		w.			1		8?		w.	0	0	sm'll		clear?
S. S. Bohemia, Hamburg, Germany						w.			2–3		9			6 h'r	6 h'r			raining.
S. S. Archimedes, (Br) N. 43° 16′, W. 42° 55′	29.76	755.9				nnw.			3–4		9		n;nw	9 h'r	9 h'r	mod.	var.	hazy.
S. S. Hevelius, Liverpool, Eng*†	30.56	776.2	43	6.1		w.			6		5		wnw.	0	0			cloudy.
S. S. Teniers, N. 25° 26′, W. 20° 23′	30.29	769.4	68.4	20.2	93	ne.			4		4 k			0	0	1	ene.	blue sky.
S. S. Archimede, (It) Marseilles, France †	30.36	771.1	54	12.2		nnw.			3		1		nnw.	0	0			clear.
S. S. Texas, N. 31° 03′, W. 45° 13′*†	30.19	766.8	70	21.1	90	wsw.			3		0			0	0	mod.	wsw.	clear.
S. S. Erin, London, Eng	30.60	777.2	50?	10.6?		se.			2		9		se.	0	0			light haze
S. S. Strassburg, N. 28° 15′, W. 19° 55′	30 33	770.4	78.5	25.8?	80	se.			1–2		2		ne.	0	0	2	nw.	clear.
S. S. Rhynland, Jersey City, N. J	30.43	772.9	18	— 7.8	84	wnw.			3		5		n.	0	0			fine.
S. S. Switzerland, N. 47° 37′. W. 43° 34′ *†	29.71	754.6				wsw.			5		10		wsw.	9 h'r	9 h'r	mod.	wsw.	snowing.
S. S. Waesland, N. 42° 25′, W. 60° 43′	30.15	765.8	24	— 4.4		wnw.			6		10		wnw.	0	0	mod.	wnw.	cloudy.
S. S. P. Caland, N. 40° 41′, W. 69° 06′	30.27	768.8	18.7	— 7.4	7	nw.			3		10		nw;sw			2	w.	snow squalls
S. S. W. A. Scholten, N. 44° 25′ W. 55° 02′			37.4	3.0	100	wsw.			5		10		w.	6 h'r	6 h'r	4	wnw.	squally.
S. S. State of Nevada, N. 51° 53′, W 33° 44′*†	29.56	750.8	42	5.6		wnw.			4		10		w.	shr's	shr's	short	con	overcast.
S. S. Saxon, Philadelphia, Pa †	30.41	772.4	18	— 7.8		sw.			1		2							fine.
S. S. Celtic, Liverpool, Eng *†	30.51	774.9	47	8.3		s.			5		10		sse.	0	0			cloudy.
S. S. Marengo, N. 48° 08′, W. 23° 12′*†	30.09	764.3	57	13.9		s.			6		10		s.	3 h'r	3 h'r	r'gh	s.	light rain.
Bg. Alcira, N. 24° 48′, W. 63° 02′	30.22	767.6	72	22.2		sse.			1		2		calm	0	0	mod.	ese.	hazy.
S. S. Antonio Lopez, Cadiz, Spain	30.42	772.7	60.5	15.8	65	se.			4		1			0	0			clear.
Bgt. Achsah, Clementsport, N. S			5	—15.0		wnw.			4		5?		wnw.	0	0			clear?
Bk. Bayonnaise, N. 30° 10′, W. 57° 40′			69.8	21.		nw.			4		4		nw.	0	0	r'g'h	nw.	clear.
Bk. Chas. Stewart, N. 12° 43′, W. 32° 37′*†	30.14	765.5	77	25.0		ene.			6		5		e.	0	0	r'gh	nne.	fair.
Schr. C. R. Flint, New York, N. Y †	30.42	772.7				w.			2					4 h'r	4 h'r			hazy

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Clotilde, Key West, Fla†	30.19	766.8	74	23.3	.....	e.	.....	.....	2	.....	2	.....	e.	1 h'r	1 h'r	.....	.....	clear.
Bk. Celestina, N. 34° 17′, W. 11° 56′*†	30.40	772.1	.....	.....	.....	ne.	.....	.....	1-2	.....	4	.....	e.	0	0	sm'h	.....	fair.
Bkt. O. S. Bushnell, N. 37° 51′, E. 1° 44′	30.44	773.2	.....	.....	.....	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	
S. Dora, N. 63° 01′, W. 1° 21′*†	30.02	762.5	47.3	8.5	.....	sw.	.....	.....	4	.....	10	.....	wsw.	c	0	mod.	sw.	misty.
S. E. J. Spicer, N. 53° 18′, W. 5° 00	30.56	776.2	49	9.4	100	ssw.	.....	.....	6	.....	10	.....	wsw.	.....	.....	sm'h	.....	cloudy.
S. E. B. Sutton, N. 35° 50′, W. 33° 00′*†	30.23	767.8	63	17.2	88	wnw.	.....	.....	2	.....	3	.....	w.	rain	rain	mod.	w.	fair.
S. Hedwig, N. 36° 17′, W. 2° 33′	30.46	773.6	57.6	14.2	92	ene.	.....	.....	2	.....	5	.....	ene.	0	0	.....	.....	fine.
Bk. Heinrich & Tonio, N. 47° 25′, W. 24° 10′	.....	.....	57	13.9	91	s.	.....	.....	4	.....	10	.....	ssw.	5 h'r	5 h'r	mod.	var.	rainy.
Bk. Hattie G. McFarland, Ship Island, Miss.	30.43	772.9	.....	.....	.....	n.	.....	.....	6	.....	10	.....	nne.	4 h'r	4 h'r	.....	.....	drizzling.
S. Henry, N. 41° 45′, W. 33° 11*	29.86	758.4	62.6	17.0	.....	ssw.	.....	.....	5-6	3 c	.....	.....	.....	.....	.....	5	sw.	fair.
Bk. Idaho, N. 29° 54′, W. 70° 24′ *†.	30.32	770.1	.....	.....	.....	ese.	.....	.....	1	.....	10	.....	ne.	0	0	mod.	nw.	cloudy.
Bg. John Wesley, Havana, Cuba, W.I.	.....	.....	.....	.....	.....	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. John L. Thomas, Hobbles Cays, C. A †	30.03	762.7	77	25.0	91	ne.	.....	.....	3	.....	3	.....	ene.	½ h'r	½ h'r	mod.	ene.	fair.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.10	764.5	.....	.....	.....	ene.	.....	.....	1	.....	2	.....	ene.	0	0	.....	.....	fine.
S. S. Laurel, Egmont Key Light., Fla†	30.28	769.1	61	16.1	.....	ne.	.....	.....	2	.....	10	.....	ne.	0	0	.....	.....	cloudy.
S. S. Madrid, N 45° 48′, W. 7° 30′†	30.55	776.0	53	11.7	80	ene.	.....	.....	5	.....	8	.....	ene.	0	0	r'gh	ene.	cloudy
N. Parker M. Whitmore, N. 0° 35′, W. 27° 49′*†	29.97	761.2	84	28.9	.....	sse.	.....	.....	2	.....	2	.....	sse.	0	0	sm'h	.....	clear.
S. S. P. de Satrastegui, N. 30° 12′ W. 79° 55′	.....	.....	.....	.....	.....	n.	.....	.....	4	.....	9	.....	.....	2 h'r	2 h'r	mod.	nne.	raining.
Bg. Rising Sun, N. 29° 30′, W. 63° 45′†.	30.12	765.0	70	21.1	.....	wnw.	.....	.....	2	.....	7	.....	wnw.	0	0	mod.	wnw.	
Bk. Rosalie, N. 33° 12′, W. 34° 30*†	30.18	766.6	.....	.....	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	light	nnw.	clear.
S Salisbury, N. 30° 08′, W. 25° 07′	30.25	768.3	65.7	18.7	91	wsw.	.....	.....	5	.....	5 k	.....	wsw.	½ h'r	½ h'r	long	var.	fair.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.78	756.4	78	25.6	82	ne.	.....	.....	5	.....	8	.....	nne.	.....	.....	mod.	ne.	fair.
U. S. S. Pinta, S. 10° 15′, W. 35° 29′	30.09	764.3	80	26.7	82	ese.	.....	.....	1	.....	5	.....	se.	.....	.....	sm'h	.....	fair.
H. M. S. Amethyst, Maldonado Bay, Uruguay	29.71	754.6	75.5	24.2	79	nnw.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Boadicea, St. Helena, Africa	30.01	762.2	77	25.0	.....	se.	.....	.....	1	.....	5	sse.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Opal, S. 16° 50′, E. 11° 44′	29.96	761.0	69	20.6	91	ssw.	.....	.....	1	.....	6	ssw.	.....	.....	.....	5	sse.	d. clouds.
H. M. S. Tyne, S. 7° 45′, W. 14° 29′	30.00	762.0	79	26.1	78	ese.	.....	.....	3	.....	5	calm	.....	.....	.....	1	ese.	d. clouds.
H. P. M. S. Tejo, Zaire, Guinea	30.07	763.7	77.7	25.4	60	ne.	.....	.....	5	.....	10	.....	e.	3 h'r	3 h'r	1	.....	overcast.
S. S. Sirius, Santos, Brazil	30.01	762.2	.....	.....	.....	ssw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. Daphne, S. 1° 03′, W. 32° 31′ *†	29.98	761.5	80	26.7	82	s.	.....	.....	2	.....	4	.....	sw.	0	0	sm'h	sse.	
Bk. Horace Scudder, S. 9° 16′, E. 11° 24′*†	30.10	764.5	84	28.9	.....	wnw.	.....	.....	1	.....	0	.....	.....	0	0	light	s.	clear.
Bkt. Levanter, S. 13° 15′, W. 35° 33′*	30.09	764.3	84	28.9	.....	ese.	.....	.....	3	.....	1	.....	se.	0	0	mod.	ese.	clear.
S. St. David, S. 46° 58′, W. 38° 06′ *†	29.57	751.1	53	11.7	86	w.	.....	.....	6	.....	6	.....	w.	3 h'r	3 h'r	r'gh	wnw.	cloudy.
S. David Stewart, Pernambuco, Brazil †	29.82	757.4	87	30.6	.....	s.	.....	.....	3	.....	3	.....	se.	0	0	.....	.....	
Bk Godeffroy, S. 50° 58′, W. 50° 20′	29.46	748.3	43.5	6.4	84	sw.	.....	.....	4-5	.....	10	.....	sw.	light	light	mod.	var.	cloudy
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.91	759.7	42	5.6	61	calm	.....	.....	0	.....	8	.....	w.	0	0	.....	.....	cloudy.
U. S. S. Adams, Sitka, Alaska †	30.12	765.0	31	— 0.6	95	e.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Alert, N. 15° 30′, W. 177° 30′	29.96	761.0	79	26.1	82	ene.	.....	.....	5	.....	8	.....	ne.	.....	.....	mod	nw.	fair.
U. S. S. Essex, Canton, China	30.25	768.3	65	18.3	68	n.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Juniata, Shanghai, China	30.56	776.2	38	3.3	81	n.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Monocacy, Shanghai, China	30.53	775.4	39	3.9	64	nnw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Richmond, Shanghai, China	30.54	775.7	39	3.9	82	nne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	hazy.
H. M. S. Audacious, Hong Kong, China	.....	.....	66	18.9	89	e.	.....	.....	1	.....	2	e.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, off Amoy, China	30.31	769.9	58.5	14.7	79	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	3	.....	overcast.
H. M. S. Champion, Shanghai, China	30.48	774.2	47	8.3	.....	nnw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky
H. P. M. S. Tamega, Macao, China	30.26	768.5	67.1	19.5	81	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Newbern, N. 24° 04′; W. 109° 02′*†	30.10	764.5	66	18.9	79	nw.	.....	.....	4	.....	3	.....	nnw.	0	0	small	nnw	fair.
S. S. Oregon, N. 45° 23′, W. 124° 04′	.....	.....	47.5	8.6	74	ssw.	.....	.....	4	.....	8	.....	ssw.	.....	.....	mod.	wnw.	cloudy.
S. S. Alameda, N. 34° 12′, W. 130° 46′†	30.17	756.3	55	12.8	74	sw.	.....	.....	2	.....	10	.....	sw.	0	0	light	wnw.	cloudy.
S. S. Ancon, San Pedro, Calif	30.12	765.0	46	7.8	54	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Chester, Cape Mendocino, Cal †	30.19	766.8	.....	.....	88	nw.	.....	.....	4	.....	0	.....	.....	.....	.....	long	w.	
S. S. Orizaba, N. 37° 12′, W. (119 ?) 40′ †	30.15	765.8	46	7.8	77	n.	.....	.....	3	.....	0	.....	.....	0	0	light	w.	
S. S. Queen of the Pacific, N. 46° 48′, W. 124° 32′ †	30.08	764.0	47	8.3	92	sw.	.....	.....	2	.....	2	.....	sw.	0	0	long	nw.	clear.
S. S. State of California, San Francisco, Cal †	30.21	767.3	43	6.1	83	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. City of Pekin, N. 45° 45′, W. 174° 28′	.....	.....	37	2.8	71	nw.	.....	.....	2	.....	2	.....	n.	.....	.....	.....	.....	clear.
S. S. City of Rio de Janeiro, N 34 15′, W. 132° 00′†	30.15	765.8	56	13.3	.....	calm	.....	.....	0	.....	1?	.....	s.	.....	.....	long	w.	cloudy.?
S. S City of Sydney, N. 3° 38′, W. 164° 19′ *†	29.85	758.2	77	25.0	91	ene.	.....	.....	2	2 ck	.....	ene.	.....	.....	.....	long	nw.	clear.
S. S. Colima, N. 31° 52′, W. 118° 19′†	30.14	765.5	55	12.8	68	nw.	.....	.....	2	.....	0?	.....	.....	0	0	mod.	w.	fair.?
S. S. Granada, N 11° 21′ W. 87° 17′†	29.94	760.5	79	26.1	82	e.	.....	.....	6	.....	0	.....	.....	0	0	mod.	.....	clear.
S. S. San Blas, N. 31° 49′, W. 119° 32′ †	30.21	767.3	55	12.8	87	ne.	.....	.....	3	.....	0	.....	.....	0	0	small	nw.	clear.
Bk. Alpheus Marshall, N. 9° 43′, E. 159° 00′ *†	29.71	754.6	81	27.2	83	ne.	.....	.....	5	.....	3	.....	ne.	0	0	mod.	ne.	clear.
S. S. Benalder, N. 12° —′, E. 112° —′ *	30.03	762.7	78	25.6	86	nne.	.....	.....	5-6	.....	6	.....	ne.	0	0	high	ne.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 18° 48′, W. 85° 48′	29.97	761.2	71	21.7	100	ese.	.....	.....	2	.....	5	.....	ese.	0	0	sm'h	sse.	fair.
U. S. S. Lackawanna, S. 19° 34′, W. 78° 05′	29.95	760.7	70	21.1	85	se.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	s.	cloudy.
U. S. S. Onward, Callao, Peru*	30.06	763.5	67	19.4	89	calm	.....	.....	0	.....	2	.....	.....	.....	.....	mod.	w.	clear.
U. S. S. Wachusetts, Callao, Peru.*†	29.99	761.7	67	19.4	95	calm	.....	.....	0	.....	5	.....	s.	.....	.....	sm'h	.....	fair.
H. M. S. Diamond, S. 42° 38′ E. 149° 29′	30.01	762.2	55	12.8	74	ssw.	.....	.....	5	.....	4	s.	.....	.....	.....	6	s.	squally.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.38	746.2	60	15.6	82	w.	.....	.....	4	.....	7	.....	.....	.....	.....	sm'h	.....	squally.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.82	757.4	65	18.3	.....	nne.	.....	.....	2	.....	.....	.....	.....	.....	.....	2	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.96	761.0	53	11.7	100	s.	.....	.....	3	.....	1	e.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Sylvia, Sandy Point, Patagonia	29.01	736.8	47.7	8.7	88	ene.	.....	.....	3-5	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Australia, S. 33° 51′, E. 153° 57′	29.79	759.7	68	20.0	.....	sw.	.....	.....	3	.....	8	.....	s.	0	0	mod.	s.	threatening.
S. S. George S. Homer, S. 35° 20′, W. 122° 36′*†	30.11	764.8	.....	.....	.....	ese.	.....	.....	2	.....	1?	.....	se.	2 h'r	2 h'r	short	ssw.	raining.?
S. Ismir, S. 19° 32′, W 73° 50′*	30.25	768.3	.....	.....	.....	ssw.	.....	.....	1	.....	6	.....	ssw.	0	0	long	ssw.	fair.
S. St. Francis, S. 28° 40′, W. 85° 00′ *†	30.24	768.1	70	21.1	70	se.	.....	.....	2	.....	1	.....	w.	0	0	mod.	sw.	clear.
S. Grecian, S. 30° 45′, W. 126° 28′ †	30.08	764.0	74	23.3	86	sw.	.....	.....	2	.....	5	.....	sw	4 h'r	4 h'r	long	sw.	fair.
S. Henry Failing, S. 35° 17′, W. 126° 51′* †.	30.12	765.0	67	19.4	84	se.	.....	.....	4	.....	5	.....	ese.	0	0	long	sw.	fair.
H. M. S. Espeigle, S. 45° 49′, E. 170° 39′	29.19	741.4	47	8.3	77	sw.	.....	.....	2-4	.....	5	.....	.....	.....	.....	.....	.....	showery.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Hellville, Nossi Be Id., Africa	29.81	757.2	84	28.9	79	wsw.	8	3.6	.....	.....	5	.....	wsw.	0.01	0.3	sm'h	.....	fair.
U. S. S. Pensacola, S. 18° 04′, E. 51° 05′*	29.75	755.6	83	28.3	71	ese.	.....	.....	2	.....	5	.....	ese.	0	0	long	e.	fair.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	29.99	761.7	83	28.3	71	ene.	.....	.....	1	.....	3	ne.	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.99	761.7	79	26.1	82	e.	.....	.....	1	.....	2	se.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.89	759.2	82	27.8	87	sse.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Woodlark, Suez Bay, Egypt	30.10	764.5	64	17.8	52	ne.	.....	.....	3	.....	5	calm	.....	.....	.....	.....	.....	d. clouds.
S. S. Galatia, N. 6° 34′, E. 81° 41′†	29.90	759.4	77	25.0	100	ne.	.....	.....	4	.....	4	.....	ne.	1 h'r	1 h'r	mod.	ne.	fine.
S. S. Port Phillip, N. 1° 56′, E. 70° 46′*	29.89	759.2	80	26.7	.....	e.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	w.	cloudy.
S. Carondelet, S. 10° 24′, E. 122° 15′*†	29.90	759.4	.....	.....	.....	ne.	.....	.....	4	.....	1	.....	ene.	0	0	mod	ene.	clear.
S. S. Lepanto, N. 18° 40′, E. 71° 20′	29.81	757.2	.....	.....	.....	wnw.	.....	.....	5	.....	3	.....	wnw.	0	0	sm'h	sw.	clear.
H. M. S. Magpie, N. 7° 07′, E. 98° 51′	29.97	761.2	75	23.9	.....	nw.	.....	.....	2	.....	8	.....	n.	0	0	mod.	nw.	cloudy.
	29.88	758.9	81.5	27.5	83	e.	.....	.....	2	.....	0	.....	.....	.....	.....	2	e.	blue sky.

International Chart I. January 17, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 18 1884,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.43	772.8	58.6	14.8	72	w.			1		0			0	0	clear	Roziere.
Algiers			30.44	773.1	57.2	14.0	78	wsw.			2		0			0	0	clear	Aubert.
La Galle			30.38	771.6	57.2	14.0	82	nw.			3		4			0	0	cloudy	Fonfrede.
Tunis			30.36	771.2	54.7	12.6	72	nw.			4		5			0.051	1.3	cloudy	Delord.
Tebessa					43.5	6.4	91	sw.			1		0			0	0	clear	Hans.
Geriville					50.4	10.2	39	sw.			2		0			0	0	clear	Forfert.
Laghouat			30.45	773.4	54.3	12.4	87	calm			0		0			0	0	clear	Abraham.
Biskra			30.36	771.2	58.3	14.6	40	nw.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.60	751.8	85.2	29.6	21	ene.	15	6.7			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.80	756.9	29.09	761.7				s.			1		3		s.	0	0	clear	Com. I. Short, R.N.
Melbourne, Victoria	29.73	755.1	29.82	757.4	65.0	18.3	70	se	6	2.7			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.87	758.8	30.45	773.5	37.6	3.1	58	w.			2		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.63	752.7	30.45	773.3	33.1	0.6	68	nnw.	8.9	4.0			4			0.004	0.1		Dr. Wierzbiski
Eperies	29.43	747.5	30.36	771.2	29.8	— 1.2	65	n.			4	2 cs		s.		0	0		Julius Mikolik.
Gratz	29.11	739.3	30.39	772.0	45.7	7.6	66	nw.			3		0			0.087	2.2		Andreas Rospini.
Hermannstadt	28.72	729.6	30.25	768.4	27.3	— 2.6	94	nnw.			4		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	29.15	740.4	30.56	776.3	37.6	3.1	90	w.			2		10			0.039	1.0	gloomy	The Staff.
Lemberg	29.30	744.3	30.38	771.6	21.0	— 5.6	63	ne.			5		0			0	0		Dr. T. Stanecki.
Pola	30.29	769.3	30.40	772.2	52.5	11.4	48	e.			3		0			0	0		I. R. Hydrographic Office.
Szathmar	29.81	757.2	30.31	769.8	28.4	— 2.0	76	n.			4		0			0	0		Joseph Midlinszky, S. J
Szegedin	30.06	763.	30.36	771.2	33.1	0.6	78	n.			1		10			0.028	0.7		Karl Stancel.
Trieste	30.33	770.4	30.43	772.9	46.6	8.1	79	sw.			1		0			0	0		Royal Academy.
Vienna	29.74	755.4	30.45	773.4	42.4	5.8	70	nw.			3		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.82	731.9	30.27	768.8	32.0	0.5	100	ne.			1		8			0	0	foggy	
Brussels	30.40	772.2	30.61	777.6	39.6	4.2	88	w.			2		10			0	0		
Furnes	30.54	775.8	30.56	776.3	42.8	6.0	89	s.			0–1		10			0	0		
Maeseyck	30.49	774.4	30.61	777.6	40.5	4.7	85	nw.			1		10			0	0	dense fog	
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			30.53	775.4	46.0	8.3	79	s.	5	2.2			9					overcast	John Hartnup.
Bolton, Sharples	29.97	761.2	30.52	775.2	42.1	5.6	96	ssw.					10					misty	Thomas Mackereth.
Bradford, Yorkshire	30.10	764.5	30.49	774.4	47.9	8.8	74	nw.			2		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.09	764.3	30.12	765.0	81	27.2	70	ne.			1		3					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	30.45	773.4	30.57	776.5	41.5	5.3	93	s.			0.2		8					overcast	John McLaren.
Chatham, School M. E.	30.40	772.1	30.58	776.7	41.1	5.1	93	calm			0		10					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.34	770.6	30.58	776.7	47.4	8.6	85	ssw.			1		10					misty	The Staff.
Fort Napier, Natal	27.52	699.0	29.83	757.7	82.2	27.9	61	ne.			1		7					d. clouds	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	88	31.1	59	n.			6		2					d. clouds	J. W. Smith.
Galway, Queen's College	30.44	773.2	30.48	774.2	48	8.9	85	sw.			2		3			0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.37	771.4	30.43	772.9	60.0	15.6	88	e.			3		7					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	30.40	772.1	30.58	776.7	43.5	6.4	91	ssw.			1		10					overcast	The Staff.
Guernsey	30.31	769.9	30.62	777.7	46.0	7.8	77	ne.			1		4					d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	30.55	776.0	30.59	777.0	44.5	6.9	82	nw.	2	0.9			10					misty	The Staff.
Leicester, Museum	30.28	769.1	30.55	776.0	43.7	6.5	88	sw.			1		8					d. clouds	J. C. Smith.
Malta, Mediterranean	30.15	765.8	30.23	767.8	53.0	11.7	65	nw.			2		6			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.19	766.8	71.0	21.7	78	e.			1		9					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.34	770.6	30.56	776.2	45.2	7.3	80	wsw.			2		10					overcast	The Staff.
Plymouth	30.49	774.4	30.57	776.5	45.4	7.4	80	calm			0		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.09	764.3	30.19	766.8	48.2	9.0	81						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.97	761.2	30.04	763.0	37.4	3.0	63	nne.			3		8			blank	blank	d. clouds	W. H. Lyne.
Sheffield	30.24	768.1	30.52	775.2	47.0	8.3	83	ssw.			1		10			0	0	overcast	W. F. Cooper.
Stilloth Rectory	30.44	773.2	30.47	773.9	47.7	8.7	92	sw.			3		10			0.030	0.8	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.52	775.2	44.9	7.2	86	wsw.	1	0.4			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					47.2	8.4	77	w.			1.0		9					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.40	772.1	30.42	772.7	51.6	10.9	86	s.	23	10.3			10					gloomy	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.88	758.9	30.27	768.8	55.0	12.8	59	nw.	6.8	3.0		0	1 n			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.52	749.8	29.56	750.8	9.0	—12.8		calm	0	0		5 c				0.020	0.5	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.55	750.6	29.59	751.6	25	— 3.9	99	sw.	9	4.0			10 n			0.150	3.8	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.49	749.0	29.56	750.8	16	— 8.9	91	sw.	2	0.9		0	0			0.04	1.0	clear	G. A. Blair.
Cornwall, Ontario	29.52	749.8	29.72	754.9	32.0	0.0	86	nw.			3		10 s			0.020	0.5	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.54	750.3	29.59	751.6	5.0	—15.0		w.			1	0	0			0.100	2.5	blue sky	H. A. Johnson.
Father Point, Quebec*	29.47	748.5	29.49	749.0	0	—12.8	91	ne	10	4.5			10 n			0.20	5.1	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.56	750.8	30.56	776.2	—23	—30.6	70	n	12	5.4		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	29.57	751.1	29.64	752.8	23.0	— 5.0	73	calm	0	0			10 s			0	0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B.	29.65	753.1	29.70	754.4	31	— 0.6	96	w.				0	8 ks		w.	0.02	0.5	cloudy	J. Chipman Seeley
Granton, Ontario	28.76	730.5	29.91	759.7	26.2	— 3.2	98	sw.	5	2.2		4 cs	0	sw.		0	0	d. clouds	Jas. Grant.
Halifax, N. S*	29.58	751.3	29.72	754.9	32	0.0	78	sw.	13	5.8		10 k	0	w.		0.020	0.5	cloudy	A. Allison.
Hamilton, Ontario	29.44	747.8	29.88	758.9	19.7	— 6.8	90	sw.			1	10 ck	0	sw.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.46	748.3	29.81	757.2	32	0.0	81	w.	12	5.4			10 k		w.	inap.	inap.	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.52	749.8	29.55	750.6	28.0	— 2.2	86	sw.	4	1.8			10 n					snowy	C. H. Rigby.
London, Ontario	28.97	735.8	29.02	700.0	26.8	— 2.9	88	sw.			2	0	6 s			inap.	inap.	d. clouds	E. B. Reed.
Medicine Hat, N. W. T.	28.10	713.7	30.65	778.5	— 5	—20.6	100	n.	0	0			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	28.35	720.1	30.64	778.2	—23	—30.6	100	n.	6	2.7		0	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	29.49	749.0	29.70	754.4	32	0.0	81	sw.	20	8.9			10 s			0.26	6.6	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.51	749.5	29.74	755.4	30.3	— 0.9	81	w.					10 s			0.15	3.8	snowy	A. McGill, M. A.
Parry Sound, Ontario*	29.05	737.9	29.77	756.1	33	0.6	89	w.	14	6.3			10 n		w.	0.08	2.0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.03	737.3	29.80	756.9	27.7	— 2.4	82	sw.			2		fg.			0	0	dense fog	Wm. O'Connor, M.A.
Port Arthur	29.36	745.7	30.17	766.3	—13	—25.0	86	n.	6	2.7		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.19	741.4	29.92	760.0	28	— 2.2	88	sw.	14	6.3		8 c	0	sw.		0	0	fair	B. Morgan.
Port Stanley, Ontario	29.20	743.2	29.93	760.2	28	— 2.2	88	w.	18	8.0			8 k		w.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	28.12	714.2	30.82	782.8	—22	—30.0		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.17	740.9	29.54	750.3	26	— 3.3	92	s.	16	7.2			10 ks		sw.	0.90	22.9	light snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.27	743.4	29.76	755.9	21	— 6.1	84	nw.	10	4.5			10 s		w.	inap.	inap.	light snow	W. H. McIntyre.
St. Andrews, N. B.	29.55	750.6	29.60	751.8	27	— 2.8	84	w.	8	3.6			10 n			0	0	cloudy	
St. John, N. B	29.53	750.0	29.68	753.9	27.8	— 2.3	89	sw.	20	8.9		4 k	4 k	nw.		inap	inap.	blue sky	G. Hutchinson.
Saint John's, N. F.																			J. Higgins.
St. Pierre, N. F.			29.84	758.0	23.0	— 5.0		sw.			2								The Commandant.
Saugeen, Ontario*	29.07	738.4	29.81	757.2	32	0.0	92	sw.	18	8.0			10 s			0	0	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
CANADIAN.—Continued.																			
Stratford, Ontario	28.55	725.2	29.89	759.2	26.0	— 3.3	84	se.	7	3.1			10 n					snowing	W. Mc Bride, M. A.
Sydney, C. B*	29.66	753.4	29.73	755.1	24	— 4.4	92	s.	12	5.4			10 n			0.10	2.5	light snow	T. C. Hill, C. E.
Toronto, Ontario*	29.48	748.8	29.88	758.9	29	— 1.7	77	sw.	10	4.5		5 ck	5 s	w.	w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.82	732.0	29.94	760.5	26.4	— 3.1	86	sw.	12	5.4		10 ck;os	0			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.69	754.1	29.76	755.9	34	1.1	85	w.	20	8.9			10 s		w.	0.01	0.3	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	29.71	754.6	29.74	755.4	72.5	22.5	95	sw.				8 ck	0			0	0	stormy	I. Garfelt.
Cape Town, The Castle	29.82	757.4			72.8	22.7	64	nw.				0	2 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			75	23.9	40									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.89	759.1	29.97	761.1	64.8	18.2	88	ne.			1	0	0					clear	Samuel Redolez.
Iquique	29.88	758.9	29.91	759.6	75.9	24.4	68	sw.			2							foggy	Rafael Moreno.
Niebla	29.61	752.1	29.72	754.8	57.9	14.4	82	e.			1	0	2 n		w.	0	0	fair	Federico Köhling.
Punta Caldera	29.87	758.8	29.96	761.0	72.5	22.5	76	calm			1	7 c	c	e.	e.			clear	Manuel Tobar.
Punta Corona	29.84	758.0	30.03	762.7				nw.			4	0	8 n		ne.	0.197	5.0	cloudy	Francisco Alvarado.
Valparaiso	29.80	757.0	29.94	760.5	65.3	18.5	90	se.				10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.36	771.2	30.39	771.8	32.9	0.5	70	ese.	8.5	3.8			0			0	0		M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.40	772.1	30.45	773.3	40.3	4.6	94	nw.	11	5			10					Oversergent Fischer.	
Fanöe	30.46	773.7	30.48	774.2	42.3	5.7	94	nw.			2		10					Overloerer Lauridsen.	
Godthaab, Greenland	29.19	741.4	29.23	742.5	3.2	—16.0	100	ne.			4		6						S. Kleinschmidt.
Stykkisholm, Iceland	29.06	738.2	29.11	739.3	32.4	0.2	76	sw.			2		8					snowing	A. O. Thorlacius.
Thorshavn	29.71	754.6	29.73	755.2	49.8	9.9	91	sw.	41.4	18.5			10					raining	Overloerer Bergh.
Vestervig	30.29	769.4	30.39	771.8	42.6	5.9	99	wsw.			4		0						Loerer Oesterrool.
EGYPTIAN.																			
Cairo	29.97	761.2			60.8	16		w.	3.1	1.4		0	0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.90	759.4	30.58	776.7	37.4	3	100	s.			1					0	0	foggy	M. Labroue, Director.
Alençon, Normal School	30.12	765.0	30.67	779.0	36.0	2.2	96	ne.			1		10 n			0	0	covered	M. Nicot, Director
Arras, Normal School			30.55	776.0	42.4	5.8	82	w.			1		10			0	0	covered	M. Ungerer, Director.
Avignon, Normal School	30.34	770.5	30.41	772.5	50.0	10	58	nnw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.97	761.3	30.55	776.0	42.4	5.8	69	e.			1		0			0	0	clear	M. Saillard, Director
Beauvais, Normal School	30.34	770.7	30.63	777.9	39.7	4.3	87	n.			1		10			0.008	0.2	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.57	751.0	30.49	774.4	48.2	9	92	ne.			2		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.21	767.2	30.48	774.2	33.4	0.8	87	ene.			1					0.004	0.1	foggy	M. Rayet, Director.
Bourges, Normal School	29.92	759.9	30.50	774.6	41.9	5.5	91	ne.			1				ne.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	30.34	770.6	30.58	776.7	46.0	7.8	89	calm			0		2			0	0		M. de Kermaïré, Dir.
Caen, Normal School	30.50	774.6	30.58	776.7	38.3	3.8	97	n.			1		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	30.24	768.2	30.58	776.8	34.3	1.3	80	nw.			1		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	30.08	763.9	30.60	777.1	40.3	4.6	80	ne.			1					0	0	misty	M. Noël, Director.
Clermont-Ferrand Obs'y	29.09	738.9	30.52	775.1	37.9	3.3	85	n.			1		10			0	0		M. Alluard, Director.
Cluny, Normal School	29.65	753.0	30.53	775.5	38.3	3.5	83	n.			2		2		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.69	754.2	30.45	773.5	36.1	2.3	93	ne.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.77	705.3	30.37	771.3	47.3	8.5	46	calm			0		0			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.23	742.5	30.38	771.6	53.8	12.1	59	n.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.60	751.8	30.40	772.1	41.7	5.4	69	e.			1		kn			0	0		M. Ablard, Director.
Guéret, Normal School	28.90	734.0	30.55	776.0	37.4	3	83	ne.			1		n		ne.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director.
Lescar, Normal School	29.88	759.0	30.48	774.2	47.7	8.7	66	nnw.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.49	774.4	30.59	777.0	45.7	7.6	64	ne.			1					0	0	misty	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.41	746.9	30.52	775.2	36.1	2.3	89	e.			1		0			0	0		M. André, Director.
Mans, Normal School	30.27	768.9	30.60	777.2	36.5	2.5		ene.			1		8 k		ne.	0	0	very cloudy	M. Richard, Director.
Marseille, Observatory	30.10	764.4	30.37	771.4	53.2	11.8	70	sw.			0–1		0			0	0	misty	M. Stephan, Director.
Montlouis	25.07	636.7	29.91	759.7	50.4	10.2	28	ne.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.26	768.7	30.37	771.5	52.9	11.6	80	n.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.80	756.9	30.62	777.7	40.6	4.8	97	nnw.			1	ck			ne.	0	0		M. Hasse, Director.
Nantes, Observatory	30.42	772.7	30.58	776.8	44.1	6.7	75	ne.			1–2		0			0	0	misty	M. Larocque, Director.
Perpignan, Observatory	30.32	770.0	30.43	773.0	51.8	11.0	52	n.	5.6	2.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.46	545.2			36.3	2.4							0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.36	745.8	30.47	773.9	45.5	7.5	77	n.			1		n	n.	n.	0	0		M. Tailleu.
Puy de Dôme Obs'y, Summit	25.44	646.1			33.8	1.0	79	ene.			4		0			0.016	0.4		M. Alluard.
Rochefort, Naval Obs'y	30.47	773.8	30.50	774.6	45.0	7.2	69	ene.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.30	769.5	30.52	775.2	41.7	5.4	78	e.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.24	717.3	30.48	774.2	38.7	3.7										0	0	foggy	M. Seger, Director.
Rouen, Normal School	30.42	772.6	30.47	773.8	39.6	4.2	97	n.			1					0	0	foggy	M. Mouillot, Dir.
St. Lô, Normal School			30.50	774.6	39.2	4.0	83	n.			1		0			0	0	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	30.44	773.1	30.60	777.3	35.8	2.1	100	nne.			1		10			0.004	0.1	covered	M. Renou, Director.
Toulouse, Observatory	29.77	756.2	30.50	774.8	37.0	2.8	100	se.			1		10	w.		0	0	covered	M. Baillaud, Director.
Tours	30.37	771.5	30.51	775.0	38.5	3.6	80	ne.			1				ne.	0	0	misty	M. de Tastes.
Versailles, Observatory	30.10	764.4	30.59	776.9	35.0	2.0	100	n.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.34	770.6	30.49	774.4	49.1	9.5	76	nw.	2.0	0.9			9 k		sw.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	29.09	738.9	30.61	777.6	39.0	3.9	80	calm			0		10			0	0		Prof. Jnedt.
Bamberg	29.67	753.5	30.58	775.3	39.6	4.2	70	calm			0		10			0	0	foggy	Prof. Dr. Hoh.
Berlin	30.38	771.7	30.54	775.6	40.3	4.6	94	nw.			2		10			0.043	1.1		Meteorological Institute
Breslau	29.96	760.9	30.50	774.6	37.2	2.9	96	n.			2		10			0.035	0.9	raining	Royal University Obs'y
Carlsruhe	30.11	764.7	30.59	777.0	44.2	6.8	80	ne.			1		9	ne.		0	0		Albert Senz.
Cassel	29.85	758.2	30.56	776.3	38.3	3.5	90	nw.			1		10	nw.		0.016	0.4		Dr. H. Möhl.
Frankfort-on-the-Main	30.23	767.8	30.61	777.6	41.7	5.4	83	ene.			1		10			0	0		Physical Society.
Friedrichshafen	29.08	738.5	30.56	776.2	39.9	4.4	72	ne.			3		2			0	0		Wilhelm, Chief Tel.
Hamburg	30.46	773.7	30.55	776.0	40.3	4.6	84	wnw.			2		10			0.012	0.3	light fog	E. Prefer.
Kiel	30.49	774.4	30.50	774.8	42.3	5.7	92	wsw.			2		10			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	30.15	765.7	30.59	776.9	39.2	4.0	92	nw.			2		10			0.047	1.2		H. Leppig, Asst.
Magdeburg	30.36	771.2	30.56	776.3	39.0	3.9	88	wnw.			2		10			0.043	1.1	rain & fog	Weather Observatory.
Memel	30.42	772.7	30.47	773.9	28.2	— 2.1	25	s.			3		10 s						Isermann.
Munich	28.68	728.4	30.58	776.6	39.4	4.1	74	calm			0		10	sw.		0	0		Central Station.
Neufahrwasser	30.46	773.7	30.48	774.1	37.6	3.1	81	calm			0		9	n.		0	0		A. Lothes.
Neustadt, Palatinate	30.02	762.6	30.56	776.2	43.9	6.6	80	nw.			1		10	nw.		0	0		Dicknether.
Stuttgart	29.60	751.7	30.53	775.4	43.2	6.2	78	n.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.46	773.7	30.48	774.3	40.1	4.5	93	wnw.			3		10			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.65	753.0	30.04	763.0	52.0	11.1		nw.			1.5	0	1 k			imp.	imp.		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	30.04	763.0	30.09	764.3	71.3	21.8	63	sw.	18.0	8.0			1			0	0	d. clouds	
Deesa	29.57	751.0	30.05	763.3	75.9	24.4	24	nne.	13.0	5.8			0			0	0	blue sky	
Bombay	29.94	760.4	29.98	761.4	74.6	23.7	62	nnw.	17.0	7.6			0			0	0	blue sky	
Poona, Yarrowda	28.09	713.4	29.97	761.2	73.4	23.0	35	e.	8.0	3.6			1			0	0	d. clouds	
Belgaum	27.36	695.0	29.91	759.8	74.6	23.7	36	e.	4.0	1.8			4	s.	e.	0	0	d. clouds	
Lahore	29.34	745.3	30.12	765.1	62.4	16.9	69	calm	0	0			10			0	0	overcast	
Roorkee	29.17	740.8	30.10	764.4	67.7	19.8	51	calm	0	0			0			0	0	blue sky	
Agra	29.54	750.2	30.13	765.2	64.3	17.9	68	nw.					6		ne.	0	0	d. clouds	
Nagpur	28.96	735.6	30.03	762.7	69.7	20.9	58	calm	0	0			6		e.	0.55	14.0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.65	727.7	30.05	763.3	65.6	18.7	69	calm	1.0	0.4			6		n.	0.37	9.4	d. clouds	
Lucknow	29.70	754.3	30.09	764.3	65.3	18.5	61	ne.	3.0	1.3			0			0	0	blue sky	
Allahabad	29.73	755.2	30.06	763.4	67.8	19.9	58	ne.	2.0	0.9			0			0	0	blue sky	
Patna	29.86	758.4	30.06	763.4	68.2	20.1	64	ene.	1.8	0.8			8	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.96	710.3	30.03	762.6	67.4	19.7	47	calm	0	0			5	s.				drizzling	
Cuttack	29.99	761.7	30.07	763.8	68.4	20.2	79	e.					8			0.06	1.5	d. clouds	
Calcutta, Alipore	30.03	762.8	30.05	763.3	66.5	19.2	81	ssw.	3.5	1.6			9			0	0	overcast	
Dhubri	29.96	760.8	30.08	764.0	69.2	20.7	61	ne.	2.8	1.2			9		sw.	0.05	1.3	d. clouds	
Chittagong	29.97	761.3	30.07	763.7	68.6	20.3	84	calm	1.0	0.4			10			0	0	overcast	
Sibsagar	29.76	755.0	30.11	764.9	59.6	15.3	79	ne.	1.0	0.4			8	w.	w.	0	0	d clouds	
Jeypore	28.63	727.3	30.14	765.4	64.1	17.8	63	ese.	4.7	2.1			2		se.	0	0	blue sky	
Zanzibar	29.80	756.8	29.82	757.4	84.7	29.3	54	ne.	9.7	4.3			6			0	0	d. clouds	
Bellary	28.41	721.6			81.0	27.2	48	ese.	4	1.8		6 c	0			0	0	d. clouds	
Trichinopoly	29.66	753.4			84.3	29.1	66	e.	0.7	0.04		2	2			0	0	d. clouds	
ITALIAN.																			
Udine	29.99	761.8	30.42	772.6	50.2	10.1	38	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.89	759.3	30.43	773.0	44.2	6.8	57	ne.	3.1	1.4			0			0	0		Prof. G.V.Schiapparelli
Padua	30.31	760.9	30.43	772.8	42.4	5.8	82	calm	0	0			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.48	748.8	30.43	772.8	45.0	7.2	59	e.	0.7	0.3			0			0	0		Prof. F. F. Denza.
Genoa	30.18	766.5	30.37	771.5	54.3	12.4	65	calm	0	0			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.37	771.5	30.43	772.8	44.1	6.7	67	n.	7.4	3.3			0			0	0		Prof. Luigi Guidi.
Florence	30.12	765.0	30.38	771.7	39.0	4.4	77	ne.				2	0			0	0		Prof. Costantino Pittei
Leghorn	30.22	767.6	30.31	769.8	48.6	9.2	72	ne.	3.8	1.7			0			0	0		Prof. P. Monte.
Rome	30.13	765.3	30.31	769.9	52.9	11.6	46	nne.	0.7	0.3			0			0	0		Prof. P. Tacchini.
Lecce	29.92	759.9	30.18	766.6	53.4	11.9	52	nnw.	22.4	10.0			1	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.35	745.5	30.28	769.0	45.0	7.2	71	nw.	2.5	1.1			2	w.		0	0		Prof. D. Conti.
Cagliari	30.12	765.1	30.32	770.1	55.4	13.0	58	nw.				2	0			0	0		Prof. A. Pacinotti.
Palermo	30.03	762.7	30.28	769.2	55.8	13.2	63	nw.	7.4	3.3			5	nne.		0.008	0.2		Prof. G. Caccialore.
Syracuse	30.14	765.5	30.18	766.6	55.0	12.8	64	n.	3.1	1.4			5	wnw.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.76	756.0	30.30	769.6	53.2	11.8	55	ne.	2.5	1.1			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.95	760.8	29.98	761.7	28.3	— 2.1	90	n				2	10 n			0.205	5.2	snowing	H. Hattori.
Awomori	29.99	759.4	29.93	760.2	28.8	— 1.8	72	w.	9.9	4.4		0	4 n		w.	0.005	0.1	snowing	K. Ogawa.
Hakodate	29.89	759.2	29.90	759.5	30.2	— 1.0	77	wnw.	9.6	4.3		0	6 s			0.202	6.7	cloudy	Y. Souma.
Hamamatsu	29.84	757.9	29.94	760.4	34.4	1.3	72	w.				6	0			0.008	0.2	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.19	766.9	30.21	767.3	32.1	0.1	64	n.	0.9	0.4		0	6 ck		w.	0	0	fair	Y. Okamoto.
Kagoshima	30.25	768.4	30.26	768.7	37.0	2.8	68	n.				2	9 s		nw.	0	0	overcast	
Kanazawa	30.00	761.9	30.11	764.7	28.0	— 2.2	95	se.	5.3	2.3			10 sks			0.795	20.2	overcast	S. Endo.
Kioto	29.91	759.7	30.08	764.1	33.1	0.6	78	nw.	0.1	0.04			10 sck			0.004	0.1	cloudy	M. Tojima.
Kochi	30.14	765.6	30.16	766.1	33.0	0.6	69	wnw.	1.3	0.5		0	1 s			0	0	clear	K. Kusunose.
Miasaka	30.21	767.3	30.24	768.1	34.5	1.4	68	wnw.				1	0			0	0	clear	K. Masusaki.
Miyako	29.83	757.7	29.94	760.5	28.4	— 2.0	75	wsw.	0.5	0.2		0	5 s			0	0	fair	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.08	764.0	30.20	769.3	35.5	1.9	69	n.	4.2	1.9			10 s			0.020	0.5		
Nemuro	29.92	760.0	29.97	761.2	23.5	— 4.7	64	nw.	3.0	1.3		4 c	0			0	0	fair	A Shibuya.
Niigata	30.02	762.5	30.06	763.5	30.4	— 0.9	94	n.	7.5	3.3			10 n			0.215	5.5	light snow	Satoo & Tomikawa.
Nobiru	29.93	760.1	29.94	760.5	31.6	— 0.2	83	n.	12.9	5.8			10 n			0.005	0.1	light snow	Yoshino & Midzushina.
Numadzu	29.88	758.9	29.91	759.8	36.0	2.2	83	e.				1	10 ks			0.079	2.0	cloudy	T. Ohgi.
Osaka	30.07	763.8	30.09	764.2	33.3	0.7	67	nw.	3.0	1.6		0	4 s			0	0	fair	H. Omura.
Sakai	30.13	765.4	30.14	765.6	31.2	— 0.4	75	wsw.				2	2 ks		w.	0.185	4.7	clear	Yamawchi & Sakamoto.
Sapporo	29.86	758.5	29.93	760.3	21.5	— 5.8	81	se.	5.8	2.6		0	6 s			0	0	cloudy	S. Kimura.
Shimonoseki	30.09	761.3	30.24	768.0	35.3	1.8	57	nnw.				4	10 ks		nw.	0.004	0.1	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.86	758.4	29.94	760.5	34.6	1.4	75	n.	12.6	5.6		0	1 s			0	0	clear	The Staff.
Wakayama	30.05	763.3	30.11	764.7	35.6	2.0	60	nw.	15.3	0.8		0	0			0	0	clear	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.66	753.4	29.85	758.2	82.5	28.1	65	e.	17.5	7.8		1 cs	4 ku		ese.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.34	618.2	30.02	762.5	58.1	14.5	75	nw.	0.9	0.4			rock in		w.	0	0	overcast	M. Leal & M. Pina.
Mazatlan	29.87	758.6	30.13	765.3	66.0	18.9	80	nw.	15.5	6.9		1 cs	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.61	777.4	30.61	777.4	41.9	5.5		sw.				3				0.004	0.1		
Groningen	30.57	776.4	30.62	777.8	40.6	4.8		sw.				1				0.020	0.5		
Helder	30.55	775.9	30.55	775.9	41.4	5.2		sw.				2				0	0		
Hellevoetsluis	30.60	777.2	30.60	777.2	49.6	9.8	90	sw.				2				0	0		
Utrecht	30.56	776.1	30.61	777.5	40.8	4.9	92	wsw.				2	9			0	0	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.6			78.1	25.6	92	nw.	0	0			9			0.941	23.9		Lt. J.J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.29	769.3	30.35	770.9	44.6	7.0	91	s.	13	6			10			0.142	3.6	raining	
Brono	29.92	759.9	29.96	760.9	42.1	5.6	94	sw.				6	10			1.142	29.0	raining	
Christiania	30.15	765.9	30.31	769.0	25.5	— 3.6	93	calm	0	0			7			0	0	foggy	
Gjesvær	29.54	750.2	29.56	750.8	30.0	— 1.1		ssw.				6	10			0.157	4.0		
Lodingen	29.52	749.7	29.56	750.9	40.5	4.7	94	sw.				9	10			2.083	52.9	raining	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira																			Capt. D. A. de Cunha.
Lisbon, Observatory	30.30	769.5	30.39	771.8	61.3	16.3	70	se.	2.5	1.1			10			0	0		The Staff.
Ponta Delgada, Azores	30.13	765.2	30.47	774.0	50.7	10.4	71	ene.	2.5	1.1			0			0	0		
Saint Paul de Loando	30.26	768.5	30.33	770.3	63.7	17.6	80	sse	2.5	1.1			3			0	0		
St. Vincent, Cape Verd Ids.																			
San Salvador, Congo	30.06	763.4	30.09	764.3	71.8	22.1	81	ene.				5	10			0	0		
Serra da Estrella	28.09	713.6	29.91	759.8	82.9	28.3	59	w.				2	6			0	0		
RUSSIAN.	25.59	650.1	30.30	769.6	56.1	13.4	18	wnw.	4.9	2.2			0			0	0		
Akmolinski	28.96	735.6	30.19	766.7	— 6.7	—21.5	93	ene.	9	4		2 cs	0			0	0	light clouds	Major K. Lasarew.
Archangel	30.36	771.2	30.38	771.7	—19.7	—28.7	83	e.	2	1		0	4 ks			0	0		Capt. Sseliwerstow
Ashurada	29.93	760.3	29.84	757.9	63.7	17.6	49	ene.	9	4		0	6 k			0	0		
Astrakhan	29.87	758.7	29.79	759.7	31.3	— 0.4	83	se.	9	4			10			blank	blank		Capt. Wisganow.
Baku	29.80	756.9	29.75	755.7	45.5	7.5	89	s.	4	2		0	0			0	0		
Barnaul	29.70	754.4	30.27	768.9	— 6.7	—21.5	83	sw.	9	4			0			0	0		Meteorological Office.
Bielosersk	29.92	760.0	30.46	773.6	— 8.0	—22.2	84	nnw.	4	2		0	1 s			0	0		
Dorpat	30.21	767.4	30.48	774.2	14.5	— 9.7	84	wsw.	4	2			10 n			0.047	1.2	light snow	Observatory.
Ekaterinburg	29.19	741.5	30.28	769.2	— 6.7	—21.5	91	calm	0	0			10			0	0	foggy	Meteorological Obs'y.
Elissawetgrad	29.44	747.8	29.93	760.2	15.1	— 9.4	80	nnw.	16	7		10 cs	0			inap.	inap.		
Kasan	29.82	757.5	30.12	765.0	10.9	—11.7	93	ene.	2	1			10			blank	blank		Observatory.
Kem	30.35	770.9	30.40	772.2	— 6.5	—21.4	85	calm	0	0			10			0	0	hvy. clouds	
Kertch	29.80	756.8	29.82	757.4	22.8	— 5.1		w.	4	2			9 n			0	0		Lagorio & Sastyres.
Kieff	29.36	745.7	30.00	763.4	11.3	—11.5	85	nnw.	16	7			10 n			0.004	0.1	snowing	Observatory.
Koslov	29.28	743.6	29.82	757.3	15.3	— 9.3	85	nne.	9	4		0	8 s			0.120	3.2		
Lgov	29.28	743.7	29.91	759.6	18.5	— 7.5	87	nne.	40	18			9			0.016	0.4	snowing	R. I. Ssaweljew, Engin'r.
Libau	29.43	772.9	30.45	773.5	30.0	— 1.1	75	sse.	9	4			10			0	0		C. Quass.
Lugan	28.93	734.9	29.14	740.2	28.0	— 2.2	83	wsw.	9	4			10			0.169	4.3		Meteorological Obs'y
Moscow	29.63	752.6	30.17	766.2	7.0	—13.9	81	n.	7	3		0	5 ks			blank	blank		Meteorological Obs'y
Nertschinsk	28.24	717.2	31.02	787.9	—32.3	—35.7	85	calm	0	0			0			0	0		

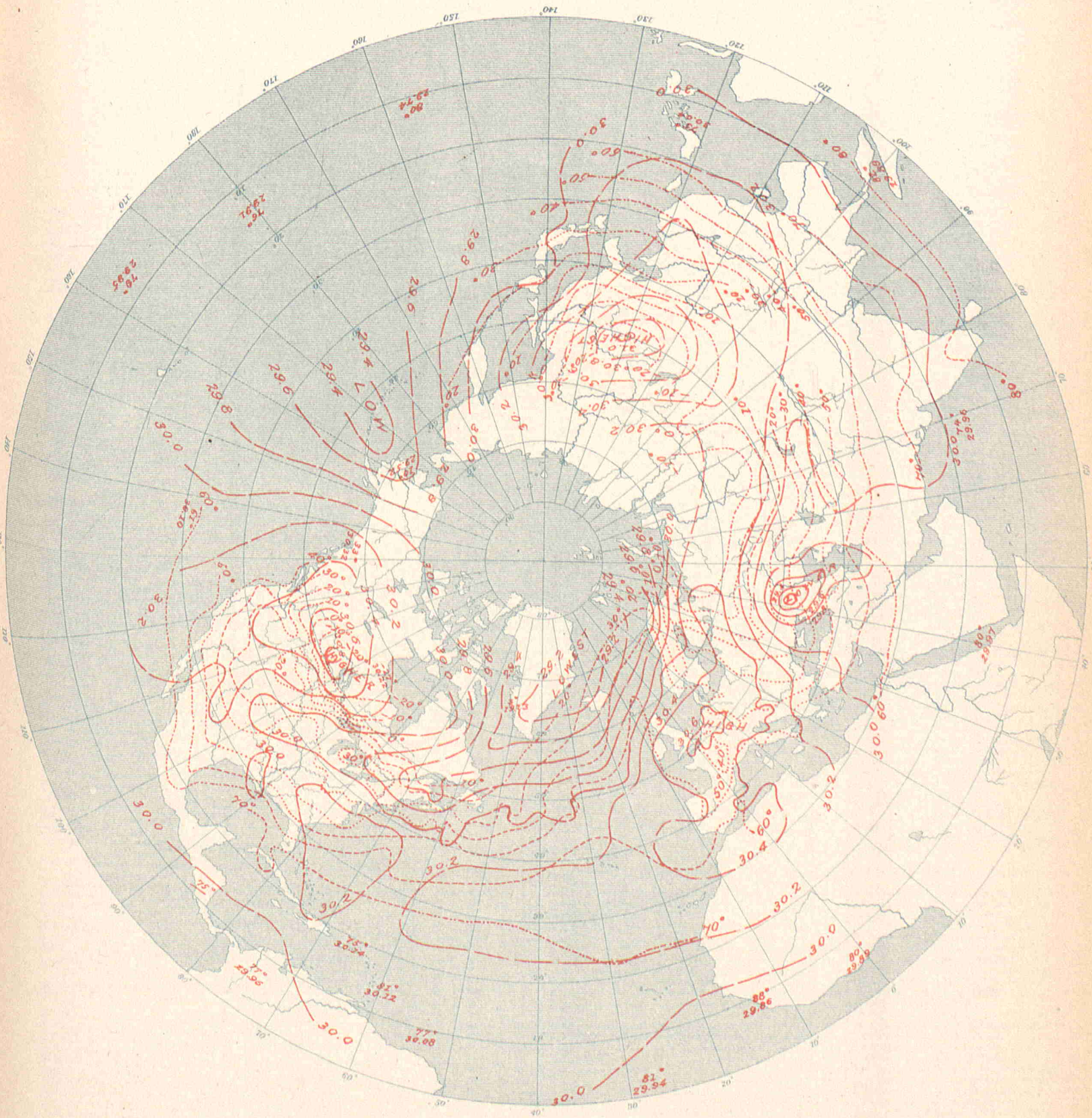
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	29.89	759.2	29.96	761.0	15.4	— 9.2	84	nnw	45	20			10 n			0.024	0.6	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	30.28	769.1	30.37	771.3	5.9	—14.5	82	calm	0	0		0	0						Iwanow.
Pekin, China	30.30	769.7	30.45	773.3	23.2	— 4.9	79	calm	0	0		0	0			0	0		**Physical Observatory**
Petro-Alexandrovsk	29.68	753.9	30.05	763.2	36.7	2.6	85	calm	0	0			10 n						
Petrozavodsk	30.21	767.2	30.43	772.9	— 7.2	—21.8	77	calm	0	0		0	7 ks			0.012	0.3		Dr. Bergmann.
Pinsk	29.82	757.4	30.36	771.2	10.0	— 8.9	69	nnw.	18	8		0	0			blank	blank		
Poti	29.79	756.7	29.82	757.5	42.4	5.8	87	nw.	11	5			10 n			0.492	12.5	raining	
St. Petersburg	30.43	772.9	30.45	773.5	5.4	—14.8	88	nw.	4	2			10 n			inap.	inap.		Central Physical Obs'y.
Samarkand	27.56	699.9	30.05	763.2	49.5	9.7	79	w.	3.4	1.5		0	1 k						
Semipalatinsk	29.57	751.1	30.31	769.8	2.7	—16.3	90	calm	0	0			10			0	0		
Sevastopol	29.68	753.8	29.91	759.6	23.5	— 4.7	90	nne.	27	12			10 n			0.134	3.4	heavy cl'ds.	Major Lasarew
Staroi Bykhov	29.65	753.0	30.26	768.7	5.2	—14.9	73	ne.	13	6		0	2 ks			0.114	2.9		
Tashkend, Laboratory	28.33	719.6	30.04	763.0	43.2	6.2	93	nw.	9	4		0	6 ks						
Tiflis	28.37	720.5	29.82	757.5	39.0	3.9	84	n.	2	1			10 n			0.028	0.7	light rain	Terch, A. M
Vernoe	27.39	695.7	29.96	760.9	37.8	3.2	67	sw.	7	3			10 n						Physical Observatory.
Viatka	29.54	750.4	30.26	768.7	— 8.1	—22.3	90	ene.	7	3			10			0	0		
Vladivostock	30.13	765.2	30.19	766.9	3.4	—15.9	80	nne.	18	8			10 n			0.016	0.4		
Warsaw	30.04	763.0	30.50	774.6	26.4	— 3.1	82	n.	2	1		8 cs	0			0	0		Astronomical Obs'y.
Yeniseisk	29.82	757.4	30.14	765.5	1.8	—16.8	78	calm	0	0			0			blank	blank		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.53	750.0	30.12	765.0	6.9	—13.9	74	nne.	0.5	0.2		6 c	6 s		ne.	0.02	0.5	fair?	**Prof. S. Fadeieff.**
Spanish.																			
Barcelona, Met. Obs'y	30.28	769.1	30.39	772.0	51.6	10.9	87	nw.				2 c	2	nw.		0	0		**B. J. Elin.**
Bilbao, Met. Obs'y	30.45	773.3	30.50	774.8	48.2	9.0	79	se.	0.7	0.3			10			0	0	covered	*Prof. Manuel de Naveran*
Burgos, Met. Obs'y	27.41	696.3	30.52	775.1	41.5	5.3	51	n.	2.5	1.1		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.15	715.0	30.46	773.7	46.9	8.3	67	sw.	2.5	1.1		0	0			0	0	hazy	The Staff.
Murcia, Met. Obs'y	30.26	768.5	30.38	771.7	60.4	15.8	74	sw.	1.1	0.5		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.48	748.7	30.39	772.0	52.7	11.5	69	calm	0	0			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.06	763.5	30.13	765.2	67.0	19.4	89	ese.	1.6	c.7		ck	s	s.		0	0	clear	**Benito Vines, S. J.**
Manilla, Philippine Islands	29.99	761.7	30.04	763.1	75.2	24.0	76	wnw.	3.3	1.5		0	7 ks			0	0	cloudy	**F. F. Faura, S. J.**
San Fernando, Naval Obs'y	30.35	770.8	30.45	773.4	60.3	15.7	65	e.	8.5	3.8		0	1		e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.05	763.2	30.14	765.5	74.8	23.8	79	calm	0	0		3 k	5 kn	e.	e.	0.500	12.7	raining	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.06	763.4	30.10	764.4	7.2	—13.8	100	s.			6		10			0.134	3.4	snowing	
Umea	30.07	763.7	30.12	765.0	32.0	0.0	100	sw.			2		10			0.110	2.8		
Hernosand	30.08	764.1	30.13	765.4	34.5	1.4	93	calm			0		10			0.165	4.2		
Stockholm	30.13	765.4	30.31	769.9	34.3	1.3	80	sw.			2		2			0	0		
Wisby	30.25	768.3	30.31	769.8	36.0	2.2	89	sw.			4		5			0	0		
Sub-series.																			
Upsala	30.21	767.4	30.30	769.6	30.2	— 1.0	84	ssw.	6.3	2.8			1	nnw.	w.	0	0		H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.08	763.9	36.5	2.5	61	n.	21	9.5			8		n.	0.181	4.6	snowing	The Observatory.
Valona			30.13	765.3	55.2	12.9		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.8	54.5	12.5	86	ssw.			3		10 n		sw.	0	0		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	29.87	758.7	29.96	761.0	31	— 0.6	70	s.	7	3.1		0	8 s		w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.13	739.9	29.84	757.9	31.2	— 0.4	78	sw.	2	0.9			10 s			0	0	cloudy	Jas. J. Fitzgerald
Apache, Fort, Arizona	25.00	636.5	30.18	766.6	26.0	— 3.3	80	n.	5	2.2			10 s			0.14	3.6	cloudy	J. B. Turton.
Assiniaboine, Ft., Montana	27.49	698.2	30.53	775.4	15.0	— 9.4	83	e.	7	3.1			10 n		e.	0.02	0.5	light snow	F. Newman.
Atlanta, Georgia	28.98	736.1	30.21	767.3	37.4	3.0	93	se.	9	4.0			10 n			0.21	5.3	light rain	S. W. Beall.
Atlantic City, New Jersey	30.07	763.8	30.08	764.0	32.0	0.0	78	sw.	12	5.4		5 k	0	sw.		0	0	fair	B. A. Blundon.
Augusta, Georgia	30.10	764.5	30.30	769.6	42	5.6	92	ne.	3	1.3			10 n			0.14	3.6	light rain	W. J. Evans.
Baltimore, Maryland	30.09	764.3	30.14	765.5	31.2	—0.4	74	sw.	4	1.8			10 s			0	0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	30.07	763.8	30.09	764.3	28.5	— 1.9	88	w.	15	6.7		6 ck	0			0	0	fair	**F. L. Johnson.**
Bennett, Fort, Dakota	28.48	723.4	30.22	767.6	22.0	— 5.6	88	nw.	5	2.2			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.62	701.5	30.60	777.2	20.5	— 6.4	58	calm	0	0			10 s			0.02	0.5	cloudy	Thomas Morgan.
Bismarck, Dakota	28.37	720.6	30.37	771.4	3	—16.1	100	ne.	12	5.4			10 n		ne.	0.05	1.3	light snow	B. O. Lenoir.
Block Island, Rhode Island	29.94	760.5	29.98	761.5	34.0	1.1	73	w.	32	14.3		6 ck	0	sw.		0	0	fair	J. T. Elker.
Boise City, Idaho	27.54	699.5	30.47	773.9	10	—12.2	91	w.	3	1.3		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.72	754.9	29.89	759.2	27.0	— 2.8	59	sw.	15	6.7		8 ck	2 s	w.	w.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.05	763.3	30.11	764.8	45.3	7.4	100	n.	5	2.2			10 s			0.02	0.5	cloudy	John McGlone.
Buffalo, New York	29.16	740.7	29.96	761.0	29.2	— 1.6	79	sw.	30	13.4		4 ck	1 s	w.	sw.	0	0	fair	Wm. Finn.
Buford, Fort, Dakota	28.18	715.8	30.40	772.1	8.6	—13.0	89	n.	20	8.9			10 n		n.	0.02	0.5	light snow	A. Schneider.
Cairo, Illinois	29.75	755.6	30.17	766.3	34.3	1.3	80	calm	0	0			10 n			0.01	0.3	light rain	W. H. Ray.
Canby, Fort, Washington Ter	30.09	764.3	30.29	769.4	43.2	6.2	76	e.	4	1.8		5 ck	0	n.		0.12	3.0	fair	**J. H. Young.**
Cape Henry, Virginia	30.22	767.6	30.24	768.1	34.0	1.1	78	sw.	12	5.4			10 s			0	0	cloudy	A. K. Alderson
Cape May, New Jersey	30.11	764.8	30.14	765.5	32.0	0.0	72	sw.	26	11.6		hz.	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.58	751.3	30.28	769.1	44.5	6.9	76	se.	18	8.0		0	8 s		se.	0	0	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	54.5	12.5	100	e.	8	3.6			fg.			inap.	inap.	dense fog	G. W. Davis.
Charleston, S. Carolina	30.18	766.6	30.24	768.1	46.0	7.8	83	ne.	6	2.7			10 s			0.02	0.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.26	768.6	38.4	3.6	85	sw.	2	0.9			10s; fg		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.35	745.5	30.21	767.3	37.5	3.1	85	ne.	2	0.9			10 n			0.17	4.3	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.84	605.5	30.11	764.8	20.2	— 6.6	64	n	16	7.2		4 c	0	nw.		0	0	fair	E. McGovern.
Chicago, Illinois	29.18	741.2	29.93	760.2	28.2	— 2.1	79	sw.	10	4.5		4 cs	0			0	0	fair	Wm. Norrington.
Chincoteague, Virginia	30.18	766.6	30.20	767.1	33.5	0.8	83	s.	6	2.7		7 ck	0	w.		0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.15	765.8	33.2	0.7	86	sw.	1	0.4		0	7 s		sw.	0	0	fair	L. Dunne.
Cleveland, Ohio	29.22	742.2	30.00	762.0	26.0	— 3.3	76	sw.	12	5.4		0	0			0	0	clear	W. Line.
Columbus, Ohio	29.20	741.7	30.10	764.5	22.9	— 5.1	82	s.	5	2.2		0	3 s		s.	0	0	clear	F. T. Williams.
Concho, Fort, Texas	28.06	712.7	30.08	764.0	33.2	0.7	100	w.	8	3.6		0	1 k		w.	0.38	9.7	clear	C. E. King.
Custer, Fort, Montana	26.99	685.5	30.37	771.4	24	— 4.4	100	n.	13	5.8			10 n			0.04	1.0	light snow	W. J. Daily.
Davenport, Iowa	29.21	741.9	29.92	760.0	30.5	— 0.8	76	sw.	7	3.1			10 s			0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.16	639.1	30.14	765.5	34.0	1.1	81	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.66	728.0	30.46	773.7	21.5	— 5.8	100	e.	2	0.9		0	0			0	0	clear	H. S. Blandford.
Deadwood, Dakota	25.30	642.6	30.25	768.3	24.0	— 4.4	84	e.	1	0.4			10 n			inap.	inap.	light snow	G. Kingsbury.
Delaware Breakwater, Del.	30.12	765.0	30.14	765.5	34.5	1.4	76	sw.	25	11.2		2 cs	0			0	0	clear	G. A. Martin.
Denver, Colorado	24.56	623.8	30.08	764.0	18.2	— 7.7	70	s.	10	4.5		1 c	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.94	735.1	29.91	759.7	37	2.8	82	w.	4	1.8			10 n		w.	0.07	1.8	light rain	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.99	761.7	31.1	— 0.5	78	w.	7	3.1		0	0			0	0	clear	N. B. Conger.
Dodge City, Kansas	27.20	690.9	29.94	760.5	26.7	— 2.9	92	se.	4	1.8		0	fg.			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.13	739.9	29.90	759.4	27.5	— 2.5	72	sw.	1	0.4			10 s			0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.24	742.7	30.06	763.5	20	— 6.7	84	ne.	32	14.3			10 s		ne.	0	0	cloudy	E. R. Brace.
Eastport, Maine	29.62	752.3	29.69	754.1	28.0	— 2.2	77	sw.	12	5.4			10 s		sw.	0.08	2.0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.03	686.5	29.96	761.0	26.0	— 3.3	88	s.	6	2.7		0	0			0.19	4.8	clear	J. C. Rickli.
El Paso, Texas	26.33	668.8	30.21	767.3	32.0	0.0	88	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.22	742.2	29.99	761.7	29.5	— 1.4	82	sw.	9	4.0		6 cs	0	w.		0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.18	741.2	29.90	759.4	23.7	— 4.6	92	n.	22	9.8			10 s		n.	0	0	cloudy	L. M. Pindell.
Fort Smith, Arkansas	29.52	749.8	30.02	762.5	33.0	0.6	100	e.	4	1.8			10 n			0.18	4.6	light rain	J. B. Campbell.
Galveston, Texas	29.98	761.5	30.02	762.5	44	6.7	93	n.	7	3.1			10 n		ne.	0.71	18.0	light rain	E. O'C. Macinerney
Grand Haven, Michigan	29.15	740.4	29.86	758.4	33.0	0.6	88	sw.	19	8.5		4 c	0	w.		0	0	fair	**Joseph E. Muelle**
Grant, Fort, Arizona	25.29	642.4	30.19	766.8	30.8	— 0.7	87	n.	3	1.3		0	0			0.04	1.0	clear	Chas. A. Read.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.29	769.4	30.30	769.6	37.0	2.8	82	nw.	6	2.7			10 k			0.03	0.8	cloudy	R. M. Crawford.
Helena, Montana	26.08	662.4	30.46	773.7				nw.	7	3.1			10 s			0.05	1.3	cloudy	S. W. Morrison.
Huron, Dakota	28.62	726.9	30.16	766.1	11	—11.7	83	n.	13	5.8			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	30.06	763.5	26.0	— 3.3	77	s.	7	3.1		0	1 s		s.	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.02	762.5	30.05	763.3	44.2	6.8	95	nw.	4	1.8			10 s			0.04	1.0	cloudy	I. A. Reed.
Jacksonville Florida	30.15	765.8	30.20	767.1	52.4	11.3	86	n.	2	0.9			10 s			inap.	inap.	cloudy	J. W. Smith.
Keokuk, Iowa	29.26	743.2	29.96	761.0	33.0	0.6	88	sw.	10	4.5			10 n		w.	0.01	0.3	light rain	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	70.5	21.4	94	ne.	10	4.5		0	8 ks		e.	0.03	0.8	cloudy	A. W. Browne.
Kittyhawk, North Carolina	30.28	769.1	30.30	769.6	33.0	0.6	80	sw.	6	2.7		0	5 s			0	0	fair	Wesley Blake.
Knoxville, Tennessee	29.17	740.9	30.25	768.3	32.3	0.2	87	ne.	3	1.3			10 n			0.01	0.3	sleeting	J. A. Cody.
La Crosse, Wisconsin	29.07	738.4	29.91	759.7	28	— 2.2	64	sw.	3	1.3		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.03	737.3	29.99	761.7	35	1.7	79	s	8	3.6			10 s			0.02	0.5	cloudy	T. S. Outram.
Lewiston, Idaho	29.70	754.4	30.57	776.5	26.0	— 3.3	76	ne.	1	0.4			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.72	754.9	30.05	763.3	36.0	2.2	89	ne.	2	0.9			10 n			0.19	4.8	light rain	W. U. Simons.
Los Angeles, California	29.89	759.2	30.29	769.4	41.0	5.0	78	ne.	12	5.4		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.53	750.0	30.12	765.0	39.0	3.9	63	s.	4	1.8			10 s			0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.45	748.0	30.17	766.3	34.5	1.4	74	calm	0	0			10 s			0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.16	740.7	29.86	758.4	30.0	— 1.1	67	n.	8	3.6			10 s			0.22	5.6	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.29	769.4	30.30	769.6	35.8	2.1	80	n.	6	2.7			10 s		w.	0.20	5.1	cloudy	William Daly.
Maginnis, Fort, Montana	25.82	655.8	30.59	777.0	10.1	—12.2	83	nw.	20	8.9			10 n		nw.	0.05	1.3	light snow	F. Burke.
Marquette, Michigan	29.22	742.2	30.00	762.0	19.2	— 7.1	81	n.	14	6.3			10 n			0.03	0.8	light snow	J. Gilligan.
Memphis, Tennessee	29.73	755.1	30.09	764.3	35	1.7	89	ne.	1	0.4			10 n			0.44	11.2	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.08	738.6	29.88	758.9	27.7	— 2.4	70	sw.	17	7.6		2 cs	0	sw.		0	0	clear	S. W. Rhode.
Mobile, Alabama	30.00	762.0	30.04	763.0	53.7	12.1	95	se.	2	0.9			10 s			0.06	1.5	cloudy	H. U. Jones.
Montgomery, Alabama	29.88	758.9	30.12	765.0	47	8.3	93	se.	8	3.6			10s;fg		se.	0.23	5.8	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.03	737.3	30.14	765.5	0	—17.8	100	ne.	11	4.9		0	5 s		n.	inap.	inap.	fair	H. Bessant.
Mt. Washington, N. H.	23.16	588.3	29.79	756.7	13.0	—10.6	76	nw.	40	17.9			fg.		nw.	0.04	1.0	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.54	750.3	30.15	765.8	33.5	0.8	88	se.	1	0.4			10 n		sw.	0.13	3.3	light rain	L. N. Jesunofsky
New Haven, Connecticut	29.86	758.4	29.98	761.5	26	— 3.3	76	sw.	9	4.0		0	7 s		sw.	0	0	fair	J. H. Sherman.
New London, Connecticut	29.97	761.2	30.02	762.5	30.0	— 1.1	77	w.	19	8.5			8 ks		n.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.98	761.5	56.6	13.7	97	se.	6	2.7			fg.			0.16	4.1	dense fog	M. Herman.
New York, New York	29.85	758.2	30.04	763.0	28.5	— 1.9	82	sw.	13	5.8			10 s		sw.	0	0	cloudy	H. J. Penrod.
Norfolk, Virginia	30.20	767.1	30.23	767.8	33.7	0.9	78	sw.	6	2.7		7 cs	hz.	w.		0	0	fair	Wm. Davis.
North Platte, Nebraska	26.93	684.0	30.05	763.3	17	— 8.3	70	calm	0	0		0	0			0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	30.35	770.0	30.39	771.9	40.0	4.4	89	calm	0	0			10 s			0.02	0.5	cloudy	J. Dascomb
Omaha, Nebraska	28.67	728.2	29.94	760.5	37.2	2.9	87	sw.	8	3.6			10 s			0.07	1.8	cloudy	A. Pollak
Oswego, New York	29.55	750.6	29.90	759.4	35.5	1.9	53	sw.	12	5.4			10 s		nw.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.49	749.0	30.07	763.8	38.0	3.3	100	ne.	2	0.9			10s;fg			0.48	12.2	cloudy	P. T. Jenkins.
Pensacola, Florida	30.04	763.0	30.07	763.8	56.7	13.7	96	e.	9	4.0			10 s			0.01	0.3	cloudy	M. McGauran.
Philadelphia, Pa.	30.00	762.0	30.11	764.8	29	— 1.7	67	sw.	10	4.5		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.49	444.2	30.19	766.8	4.0	—15.6	66	ne.	31	13.9		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.25	742.9	30.10	764.5	29.0	— 1.7	82	s.	8	3.6		2 cs	0	s.		0	0	clear	O. D. Stewart.
Poplar River, Montana																			G. A. Garden.
Port Huron, Michigan	29.18	741.2	29.91	759.7	24.0	— 4.4	88	sw.	10	4.5		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.72	754.9	29.77	756.1	25.2	— 3.8	70	sw.	16	7.2		0	2 s		sw.	inap.	inap.	clear	W. W. Eichelberger.
Portland, Oregon	30.26	768.6	30.33	770.4	36.2	2.3	84	calm	0	0		0	3 s			0	0	clear	M. L. Hearne.
Prescott, Arizona	24.85	631.2	30.23	767.8	23.5	— 4.7	82	sw.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	29.87	758.7	29.90	759.4	31.9	— 0.1	71	w.	12	5.4		8cs;ck	hz.	nw.		0	0	cloudy	O. N. Kitchel.
Red Bluff, California	29.94	760.5	30.31	769.9	34	1.1	88	n.	5	2.2		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.94	760.5	30.19	766.8	45.0	7.2	94	nw.	3	1.3			10 ks		n.	0	0	cloudy	L. G. Schultz.
Rochester, N. Y.	29.21	741.9	29.92	760.0	31	— 0.6	78	w	24	10.7		5 k	2 s	nw.	w.	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.76	755.0	30.33	770.4	27.8	— 2.3	88	e	1	0.4		5 cs	0	w.		0	0	fair	J. J. Nanry.
Sacramento, California	30.23	767.8	30.31	769.9	30.5	2.5	94	n	2	0.9		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.43	747.5	30.09	764.3	37.7	3.2	77	sw.	17	7.6			10 n		sw.	0.07	1.8	light rain	J. H. Weber.
St. Michael, Fort, Alaska	29.49	749.0	29.52	749.8	10	—12.2	100	ne.			2		10 n			0.08	2.0	light snow	Fred. H. Clarke.
St. Paul, Minnesota	28.98	736.1	29.92	760.0	28.0	— 2.2	77	nw.	2	0.9			10 s			0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.52	749.8	30.50	774.7	—18	—27.8	100	n.	20	8.9		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.81	655.6	30.38	771.6	18.5	— 7.5	56	calm	0	0		4 k	0	sw.		0	0	fair	J. Craig.
San Diego, California	30.19	766.8	30.26	768.6	42.0	5.6	53	ne.	2	0.9		0	0			0	0	clear	F. R. Day.
Sandusky, Ohio	29.29	744.0	30.01	762.2	28	— 2.2	64	sw.	10	4.5		0	0			0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.02	762.5	30.05	763.3	31.0	— 0.6	68	sw.	35	15.6		10 k	0	sw.		0	0	cloudy	V. P. Chappel.
Sanford, Florida	30.10	764.5	30.15	765.8	56.0	13.3	93	ne.	2	0.9			fg.			inap.	inap.	dense fog	J. B. Marbury
San Francisco, California	30.23	767.8	30.30	769.6	45.5	7.5	95	ne.	2	0.9			fg.		ne.	0	0	dense fog	N. Gorom.
Savannah, Georgia	30.13	765.3	30.23	767.8	44	6.7	89	ne.	4	1.8			10 n		ne.	0.10	2.5	light rain	R. M. Geddings.
Shaw, Fort, Montana	26.68	677.7	30.54	775.7	24	— 4.4	88	nw.	3	1.3			10 s			0.05	1.3	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.70	754.4	29.95	760.7	37.0	2.8	96	e.	4	1.8			10 n		ne.	0.57	14.5	light rain	E. N. Meekins.
Sitka, Alaska	30.25	768.3	30.32	770.1	33	0.6	83	e.	2	0.9		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	30.24	768.1	30.28	769.1	37.8	3.2	65	n.	4	1.8			10 s			0.03	0.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.27	718.0	30.41	772.4	12	—11.1	64	n.	1	0.4		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.28	743.7	30.01	762.2	34.5	1.4	83	sw.	12	5.4			10 n		sw.	inap.	inap.	light rain	T. B. Jennings.
Stockton, Fort, Texas	27.08	687.8	30.22	767.6	32.0	0.0	81	sw.	5	2.2		0	0			inap.	inap	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.22	767.6			40.2	4.6	80	e	20	8.9		0	2 s		e.	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.46	697.5	30.28	769.1	41	5.0	76	calm			0	0	5 s			0.01	0.3	fair	R. C. Lord.
Toledo, Ohio	29.22	742.2	29.96	761.0	27.2	— 2.7	86	sw.	4	1.8		0	0			0	0	clear	A. Buell.
Unalaska, Alaska	29.20	741.7	29.22	742.2	30	2.2	69	sw.	6	2.7		0	1 s		sw	0.52	13.2	clear	Samuel Applegate
Vicksburg, Mississippi	29.78	756.4	30.05	763.3	46.0	7.8	93	se	6	2.7			10 n		sw.	2.26	57.4	light rain	C. Dill.
Washington, D. C.	30.04	763.0	30.16	766.1	28.5	— 1.9	82	s.	1	0.4		7 cs	sk.	sw.		0	0	fair	T. B. Harrison.
West Las Animas, Colorado	25.85	656.6	29.98	761.5	12.5	—10.8	91	w.	6	2.7		0	0			inap.	inap.	clear	F. H. Brandenburg
Wilmington, N. Carolina	30.26	768.6	30.32	770.1	37.5	3.1	72	ne.	2	0.9			10 s			0.08	2.0	cloudy	L. H. Albrecht.
Yankton, Dakota	28.61	726.7	30.03	762.7	20.4	— 6.4	79	n.	11	4.9		2 cs	0	n.		0	0	clear	E. H. Thompson.
Yuma, Arizona	30.06	763.5	30.21	767.3	38.4	3.6	74	s.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.85	758.2	29.87	758.7	21.9	— 5.6	92	n.	23	10.3		0	8 n		n.	0	0	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.					76	24.4		n.			2	0	8 k		n.	0.06	1.5	cloudy	W. H. Jackson.
Bogota, U. S. C.	21.98	558.4			53.6	12.0	81	nw	2	1		1 c	6 k	n.	w.	0	0		Jonquin Gomez.
Chimo, Fort, Ungava	29.86	758.4	30.02	762.5	—43	—41.7	100	s.	4	1.8		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.09	764.3	66.0	18.9	89	n.	1	0.4		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	77	25.0	91	ne.			3		10 n	ne.	ne.	0.090	2.3	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.40	746.7	29.96	761.0	77	25.0	89	calm			0		5 ks		calm	0.15	3.8	fair	Francisco J. Olsnerez.
Rivas, Nicaragua, C. A.					75.1	23.9	91	ne.			1.5					0	0	clear	Earl Flint.
York Factory, B. A.	30.15	765.8	30.22	767.6	—27.0	—32.8		se.	10	4.5		4 k	3 s	se.	se.	0	0	cloudy	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.88	759.0	29.89	759.2	78.1	25.6	87	n.	13.0	5.8		0	6 k		n.			fair	P. Fasiani.
Naos, Bay of Panama	29.87	758.6	29.93	760.3	76.3	24.6	88	nw.			3	0	1 k		n.			clear	Antonio Fabra.

Vessels with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.																		
S. S. Alleghany, N. 37° 54′, W. 74° 50′ †	30.23	767.8	40	4.4		sw			3		8		s.	0	0			cloudy.
Schr. Anna A. Holton, N. 36° 13′, W. 65° 13′*†	30.22	767.6	54	12.2		w.			2		5		nw.	4 h'r	4 h'r	mod	n.	fair.
S. S. Arizona, N. 45° 03′, W. 50° 28′			28	— 2.2		w.			4		8		w.	0	0	mod.	w.	snowy.
S. S. British Prince, N. 51° 48′, W. 17° 31′ †	30.07	763.8	53	11.7		s.			6		8		wsw.	0	0	h'vy	ssw.	hazy.
S. S. Belgenland, N. 48° 02′, W. 39° 29′			36	2.2	90	nw.			7				wnw.	hail	hail	h'vy	wnw.	cloudy.
S. S. City of Augusta, New York, N.Y			28	— 2.2		wsw.			3		4		w.	0	0			fair.
S. S. Canada, (Br) N 47° 07′ W. 32° 12′			50	10.0		nw.			4		8		var.	4 h'r	4 h'r	mod.	var.	clearing.
S. S. Canada, (Fr) N. 42° 30′, W. 61° 47′			42.8	6		wnw.			5		k		wnw.			sm'h	wnw.	cloudy.
Bk. Diamant, N. 39° 07′, W. 67° 36′	30.20	767.1	46.9	8.3	75	wsw.			5		6		w.			3	nw.	fair.
S. S. Dorian, N. 33° 46′, W. 58° 00′	30.27	768.8	58	14.4		nne.			3		6		nnw.	8 h'r	8 h'r	mod	nw.	fair.
S. S. Denmark, N. 47° 45′, W. 40° 30′ †	30.00	762.0	36	2.2	70	wsw.			6		8		wsw.			r'gh	wsw.	fair.
S. S. Daniel Steinmann, N. 49° 45′, W. 38° 28′ †	29.87	758.7	42	5.6		w.			6		10		calm	10 h'r	10 h'r	h'vy	w.	snow & hail
Bg. Gipsey Queen, N. 33° 45′, W. 75° 30′						s.			3		9		s.	0	0	sm'h		overcast.
S. S. Iowa, N. 43° 33′, W. 53° 43′ †	30.09	764.3	35	1.7		wsw.			4		4		wsw.	6 h'r	6 h'r	mod.	wsw.	fair.
S. S. Lord Gough, N. 39° 45′, W. 71° 12′ *	30.03	762.7	45	7.2		wsw.			5		2		wsw.	0	0	mod.	wsw.	clear.
S. S. Llandaff City, N. 49° 00′, W. 33° 23′*†	30.00	762.0	44	6.7		w			6		4		w.	6 h'r	6 h'r	high	w.	squally.
S. S. Lessing, N. 41° 25′, W. 58° 39′	29.92	760.0	48	8.9		sw.			6		8		w.	0	0	h'vy	w.	cloudy.
S. S. Labrador, N. 47° 18′, W. 44° 55′ *†	29.92	760 0	28.4	— 2		w.			5		7		w.			long	w.	light snow.
S. S. Main, N. 44° 40′ W. 54° 46′	30.02	762.5	28.4	— 2.0		sw.			4–5		8		sw.	7 h'r	7 h'r	mod.	ssw.	overcast.
Schr. Maggie Abbott, N. 35° 10′, W. 74° 00′						sw.			2		6		w.	4 h'r	4 h'r	long	se.	cloudy
Bk. Matthias, N. 34° 42′, W. 65° 50′*†	30.23	767.8	58.0	14.4		nw.			3		6		n.	0	0	3	w.	hazy.
S. S. Neckar, N. 47° 02′, W. 33° 31′	29.99	761.7	52.0	11.1	86	nw.			4		7		wnw.	shr's	shr's	mod.	nw.	fair.
S. S. Nederland, N. 39° 41′. W. 71° 51′			44	6.7	92	wsw.			5		0			0	0	sm'h		clear.
S. S. Nurnberg, N. 47° 13′ W. 40° 33′	30.03	762.7	35.6	2.0		w.			5		7		w.	4 h'r	4 h'r	r'gh	nw.	fair.
S. S. Oregon, (Br) N. 45° 43′, W. 49° 36′	30.03	762.7	28	— 2.2		wsw.			2		9		wsw.			mod.	w.	cloudy.
S. S. Picqua, N. 37° 33′, W. 53° 30′*†	30.20	767.1	54	12.2	93	se.			2				nw.	light	light	light	nw.	cloudy.
S. S. Rhein, N. 49° 48′, W 24° 38′	30.05	763.3				n			6–7		10		n.	3 h'r	3 h'r	high	nnw.	covered.
S. S. Republic, N. 50° 50′, W. 16° 01*†	30.16	766.1	53	11.7		ssw.			6		9		ssw.	o	o	mod.	sw.	misty.
S. S. Romano, N. 40° 35′, W. 71° 42′	29.99	761.7	40	4.4		wsw.			5		4		w.	snow	snow	h'vy	w	fair.
Bk. Rosina, N. 31° 44′, W. 69° 57′	30.27	768.8	65	18.3		ene.			1		0			3 h'r	3 h'r	hv'y	n.	clear.
S. S. State of Georgia, N. 48° 47′, W. 39° 32′ †	29.99	761.7	38	3.3		wsw.			7–8		10		wsw.	hail	hail	r'gh	wnw.	hailing.
S. S. Salier, N. 44° 49′ W. 55° 22′						ssw.			5		8		wsw.	3 h'r	3 h'r	mod.	w.	cloudy
Bgt. Sunlight, N. 16° 00′, W. 62° 57′†	30.06	763.5				ene.			4		6		ene.	0	0	sm'h		fair.
S. S. Thingvalla, N. 56° 50′, W. 26° 40′			35.6	2		sw.			4		5		sw.	4 h'r	4 h'r	h'vy	var.	fair.
S. S. Valencia, La Guayra, Venezuela†	30.03	762.7	75.5	24.2	84	ne.			3		4		ne	o	o	light	nne.	fair.
S. S. Westphalia, N. 46° 08′, W. 43° 09′			34	1.1	79	wnw.			5		6		nw.	o	o	long	nw.	fair.
S. S. Zaandam, N. 50° 16′, W. 30° 39′	29.99	761.7	57.4	14.1	80	w.			6		8		w.	18 h'r	18 h'r	h'vy	w.	cloudy.
S. S. Andes, N. 17° 45′, W. 75° 15′ *†	30.16	766 1	81	27.2		e.			3		3		e.	8 h'r	8 h'r	mod.	e.	squally.
Bk. Ariadne, N. 38° 22′, W. 72° 42′	30.17	766.3	46	7.8		w.			7		2		w.	o	o	mod	wnw.	fair.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W.I			69	20.6		ne.			1		0			o	o			clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.17	766.3				calm			0		fg			o	o	sm'h		foggy.
Bk. Aureola, N. 4° 23′. W. 44° 41′.			88	31.1		nne.			6		10		ne.	4 h'r	4 h'r	h'vy	cross	gloomy.
U. S. S. Alliance, Santiago de Cuba, Cuba, W. I	30.11	764.8	73	22.8	81	wnw.			1		2			light	light	sm'h		clear.
S. S. Bothnia, N. 46° 37′, W. 41° 53′			59	15.0		w.			5		8		w.	3 h'r	3 h'r	long	w.	cloudy
S. S. Chalmette, N. 26° 40′, W. 85° 53′ †	30.10	764.5	71	21.7		se.			6		6		se.	1 h'r	1 h'r	mod.	se.	fair.
S. S. Dominion, N. 49° 15′, W 40° 34 *†	29.96	761.0	36	2.2	90	wsw.			6		10		wnw.			r'gh	w.	cloudy.
Schr. Ellen Crusoe, N. 25° 55′ W. 71° 40′ *†	30.25	768.3				ne.							ne.	o	o	long	nne.	fine
S. S. Germanic, N. 51° 04′, W. 19° 56′*†	29.87	758.7	54	12.2	93	ssw.			6		10		wsw.	13 h'r	13 h'r	long	wsw.	raining.
S. S. Grecian, N. 48° 00′, W. 60° 00′	30.53	775.4	49	9.4	77	ene.			2		0			o	o	sm'h		clear.
Bg. John Welsh, jr., N. 28° 30′, W. 90° 40′						n.			5		10		nne.			chop	n.	cloudy.
S. S. Lone Star, N. 34° 00′, W. 76° 57′*†	30.26	768.6				ene.			3		9		e.	6 h'r	6 h'r	mod.	ne.	overcast
S. S. Muriel, St. Lucia, W. I	30.07	763.8	81	27.2		e.			3		0			o	o	sm'h		clear.
S. S. Orinoco, N. 34° 22′, W. 66° 45′†	30.26	768 6	64	17.8		wnw.			2		5		wnw.	2 h'r	2 h'r	long		fine.
Bk. Saga, N. 24° 53′, W. 61° 23′ *†	30.20	767.0	75	23.9		var.			1–2		2		ne.	o	o	long	n.	clear.
S. Storm King, N. 40° 21′, W. 32° 57′*†	30.15	765.8				e.			1		10		w.	3 h'r	3 h'r	mod.	nw.	cloudy.
S. S. Salerno, Hull, England †	30.53	775.4	42	5.6		w.			1		10		w.	o	o			overcast.
S. S. St. Laurent, Havre, France	30.56	776.2	46.4	8		ne.			1		8		calm	o	o			cloudy.
U S. S. Swatara, Port au Prince, Hayti, W. I	30.20	767.1	74	23.3	76	s.			1		1			o	o			clear.
U. S. S. Tennessee, N. 14° 25′, W. 75° 54′	29.95	760.7	77	25.0	82	e.	20	8.9			2		e.	o	o	mod.	e.	clear.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I	30.04	763.0	75	23.9	86	ne.			1		8							cloudy.
S. S. Venetian, N. 42° 54′, W. 60° 36′ *	29.95	760.7	38	3.3		sw.			6		10		sw.	o	o	mod.	wsw.	gloomy.
S. S. Wyoming, N. 53° 20′, W. 4° 24′	30.51	774.9	46	7.8		s.			3		5		s.	o	o	sm'h		fair.
S. S. Westernland, Antwerp, Belgium	30.60	777.2	47	8.3		ssw.			3		10		ssw.	o	o			overcast.
U. S. Navy Yard, Portsmouth, N. H*	29.83	757.7	28	— 2.2	88	sw.	14	6.3			8		w.	o	o			fair.
U. S. S. Kearsarge, Spezia, Italy	30.31	769.9	53	11.7	80	calm			0		0							clear.
U. S. S. Lancaster, Leghorn, Italy			51	10.6	100	ene.			2		0			o	o	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	29.93	760.2	32	0.0	100	sw.			5		10					mod.		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.31	769.9	54	12.2	67	ne.			1		0					sm'h		clear.
U. S. S. Shenandoah, N. 22° 33′, W. 23° 17′			71	21.7	85	e.			2		2					sm'h		fair.
U. S. S. Trenton, Marseilles, France	30.38	771.6	49	9.4	78	wnw.			1		2							fair.
H. M. S. Alexandra, Malta, Mediterranean	30.28	769.1	57	13.9	63	nw.			1		1		nw.					blue sky.
H. M. S. Alecto, N. 5° 05, W. 1° 19′	29.89	759.2	80	20.7		wnw.			1								3	ssw.	misty.
H. M. S. Comus, N. 16° 55′, W. 25° 00′	30.10	764.5	72	22.2	71	nne.			4										d. clouds.
H. M. S. Dockyard, Bermuda, Atlantic	30.19	766.8	57	13.9	75	nnw.			4		5		nnw.						d. clouds.
H. M. S. Minotaur, N. 38° 50′, E. 1° 54′	30.41	772.4	59	15.0	76	w.			2		3								d. clouds.
S. S. British Crown, N. 39° 30′, W. 69° 51′†	30.09	764.3	40	7.8		w.			6		0			o	o	long	w.	clear.
S. S. Ohio, (Am) N. 43° 44′, W. 58° 15′*†	29.94	760.5	31	— 0.6	100	sw.			3		10		wsw.	1½ hr	1½ hr	mod.	wsw.	overcast.
S. S. Pennsylvania, Philadelphia, Pa †	30.11	764.8	22	— 5.6	72	wsw.			5		6?		w.	o	o			clear.
S. S Polynesian, N. 48° 14′, W. 47° 33′	30.00	762.0	31	— 0.6		wsw.			7		9		wsw.	18 h'r	18 h'r	r'gh	wsw.	squally.
S. S. Prussian, N. 55° 30′ W. 8° 39′	30.31	769.9	50	10.0		s.			5		10		sw.	o	o	r'gh		cloudy.
S. S. Scandinavian, N. 45° 45′. W. 48° 31′	30.08	764.0	29	— 1.7		wsw.			5		7		wsw.	snow	snow	mod.	wsw.	snowing.
S. S. Scythia, N. 41° 29′, W. 60° 08′	30.04	763.0	40	4.4	82	w.			2		9?		wnw.	1 h'r	1 h'r	sl't	w.	clear?
S. S. Bohemia, Hamburg, Germany						w.			var.		8			4 h'r	4 h'r			cloudy.
S. S. Frisia, N. 40° 45′. W. 68° 40′	30.03	762.7	44	6.7		sw.			6		0			o	o	long	sw.	clear.
S. S. Archimedes, (Br) N. 44° 28′, W. 38° 12′	30.07	763.8				wnw.			4		8		w.	o	o	mod.	wnw.	cloudy.
S. S. Hevelius, Liverpool, Eng *†	30.60	777.2	42	5.6		nw.			4		3?		nw.	o	o			cloudy ?
S. S. Teniers, N. 21° 46′, W. 22° 01′	30.19	766.8	70.5	21.4	87	ne.			5		5 k			o	o	long	ne.	d. clouds.
S. S. Archimede, (It) Marseilles, France †	30.41	772.4	52	11.1		ne.			1		0			o	o			clear.
S. S Texas, N. 30° 31′, W. 49° 34′			69	20.6	80	sw.			4		10			o	o	sm'h		overcast
S. S. Erin, London, Eng	30.62	777.7	50	10.0		se.			2		7		se.	o	o			light haze
S. S. Strassburg, N. 32° 11′, W. 17° 51′			65	18.3	68	e.			4		10		e.	o	o	3	e.	cloudy.
S. S. Rhyuland, Jersey City, N. J	30.08	764.0	24	— 4.4	74	wsw.			3		5		n.	o	o			fine.
S. S. Switzerland, N. 49° 20′, W. 36° 33′*†	29.94	760.5				wsw.			6		8		wsw.	18 h'r	18 h'r	hv'y	wsw.	snowing.
S.S. Waesland, N. 41° 08′ W. 65° 20′	29.96	761.0	39	3.9		wsw.			9		0			o	o	h'vy	w.	clear.
S. S. P. Caland, N. 41° 38′, W 63° 00′			38.8	3.8	61	w.			6		4?		w.			2	nw.	cloudy?
S. S. W. A. Scholten, N. 43° 21′, W. 59° 20′			41.0	5.0	100	se.			2		10		sse.	4 h'r	4 h'r	5	se.	raining.
S. S. State of Nevada, N. 53° 18′, W 26° 29′ *†	29.76	755.9	43	6.1		wnw.			4		8		wsw.	5 h'r	5 h'r	long	wnw.	fine.
S. S. Saxon, Philadelphia, Pa †	30.06	763.5	26	— 2.2		wsw.			1		4							fair.
S. S. Celtic, Liverpool, Eng *†	30.50	774.7	50	10.0		sw.			4		9		sw.	o	o			fine.
S. S. Marengo, N. 49° 17′, W. 17° 21′			54	12.2		s.			6		9		s.	1 h'r	1 h'r	r'gh	ssw.	overcast.
Bg. Alcira, N. 26° 03′, W. 62° 19′	30.19	766.8	72	22.2		wsw.			2		2		nw.s	o	o	mod.	nnw.	hazy.
S. S. Antonio Lopez, Cadiz, Spain	30.44	773.2	61	16.1	61	se.			1		1			o	o			clear.
Bgt. Achsah, Clementsport, N. S			30	— 1.1		sw.			4		10		sw.	1 h'r	1 h'r			cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind. Upper.	Amount and kind. Lower.	Direction. Upper.	Direction. Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Bayonnaise, N. 31° 05′ W. 57° 05′†	30.23	767.8	67.1	19.5	.....	ne.	.....	.....	1	.....	10	.....	.....	2 h'r	2 h'r	h'vy	ne.	covered.
Bk. Chas. Stewart, N. 15° 10′, W. 32° 49′	.....	.....	77	25.0	.....	ene.	.....	.....	6	.....	5	.....	e	0	0	r'gh	nne.	fair.
Schr. C. R. Flint, N. 38° 43′, W. 72° 11′	.....	.....	51	10.6	.....	wsw.	.....	.....	3	.....	5	.....	sw.	0	0	mod.	sw.	hazy.
Schr. Clotilde, Key West, Fla†	30.15	765.8	74	23.3	.....	ne.	.....	.....	3	.....	8	.....	e.	0	0	.....	.....	cloudy.
Bk. Celestina, N. 33° 54′ W. 13° 56′ *†	30.46	773.7	.....	.....	.....	ene.	.....	.....	0–1	.....	1	.....	ne.	0	0	light	var.	clear.
Bk. C. S. Bushnell, N. 37° 50′, E. 1° 45′	30.39	771.9	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	
S. Dora, N. 63° 43′, W. 3° 52′ *†	29.63	752.6	48.2	9.0	.....	ssw.	.....	.....	7	.....	10	.....	sw.	0	0	long	sw.	overcast.
S. E. J. Spicer, N. 52° 38′, W. 5° 23′	30.51	774.9	49	9.4	93	s.	.....	.....	5	.....	10	.....	sw.	.....	.....	sm'h	.....	misty.
S. E. B. Sutton, N. 38° 30′, W. 33° 20′ *†	30.21	767.3	64	17.8	100	sw.	.....	.....	4	.....	10	.....	sw.	rain	rain	mod	wnw.	drizzling.
S. Hedwig, N. 36° 12′ W. 2° 34′	30.43	773.0	60.4	15.8	87	ene.	.....	.....	1	.....	2	.....	ene.	0	0	.....	.....	clear.
Bk. Heinrich & Tonio, N. 48° 05′, W. 19° 30′ *†	30.36	771.1	57	13.9	91	s.	.....	.....	5	.....	10	.....	ssw.	7 h'r	7 hr	mod.	var.	cloudy.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.11	764.8	.....	.....	.....	ese.	.....	.....	4	.....	.....	.....	.....	5 h'r	5 h'r	.....	.....	foggy.
S. Henry, N. 41° 30′, W. 29° 07′ *	30.06	763.5	62.2	16.8	.....	ssw.	.....	.....	4–5	.....	10	.....	.....	.....	.....	5	sw.	light rain.
Bk. Idaho, N. 27° 45′, W. 70° 28′ *†	30.30	769.6	.....	.....	.....	ene.	.....	.....	4	.....	8	.....	ene.	2 h'r	2 h'r	mod.	nnw.	cloudy.
Bg. John Wesley, Havana, Cuba, W. I.	.....	.....	.....	.....	.....	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.08	764.0	.....	.....	.....	ene.	.....	.....	1	.....	1	.....	ene.	½h'r	½h'r	sm'h	.....	clearing.
S. S. Madrid, N. 48° 43′, W. 5° 02′†	30.65	778.5	50	10.0	86	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	nw.	clear.
S. Parker M. Whitmore, N. 1° 15′, W. 27° 49′ *†	29.94	760.5	81	27.2	.....	s.	.....	.....	1	.....	10	.....	s.	2 h'r	2 h'r	sli't	nne.	cloudy.
S. S. P. de Satrastegui, N. 32° 37′, W. 75° 56′	30.28	769.1	.....	.....	.....	e.	.....	.....	3	.....	6	.....	.....	0	0	mod.	ene.	hazy.
Bg. Rising Sun, N. 28° 00′, W. 61° 55′	.....	.....	70	21.1	.....	n.	.....	.....	5	.....	9	.....	n.	light	light	long	nw.	squally.
Bk. Rosalie, N. 34° 26′, W. 34° 28′*†	30.23	767.8	.....	.....	.....	w.	.....	.....	3	.....	0	.....	.....	0	0	long	nw.	clear.
S. Salisbury, N. 29° 00′, W. 25° 06′	30.28	769.1	64.4	18.0	91	nw.	.....	.....	3–4	4 ck	.....	var.	.....	¼h'r	¼h'r	long	var.	fair.
S. S. City of Alexandria, N. 38° 18′, W. 74° 58′*†	30.15	765.8	35	1.7	.....	ssw.	.....	.....	5	.....	.....	.....	.....	.....	.....	mod.	sw.	d. clouds.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.66	753.4	82	27.8	71	nw.	.....	.....	3	.....	8	.....	w.	.....	.....	sm'h	wsw.	fair.
U. S. S. Pinta, S. 12° 57′, W. 36° 49′	30.07	763.8	80	26.7	78	ese	.....	.....	2	.....	2	.....	se.	.....	.....	long	se.	clear.
H. M. S. Amethyst, Maldonado Bay, Uruguay	29.64	752.8	82.5	28.1	77	nw.	.....	.....	4	.....	5	sw.	.....	.....	.....	2	nw.	misty.
H. M. S. Boadicea, St. Helena, Africa	30.01	762.2	75	23.9	.....	se.	.....	.....	1	.....	3	sse.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Opal, S. 19° 12′, E. 12° 06′	29.95	760.7	68	20.0	84	sse.	.....	.....	2	.....	3	sse.	.....	.....	.....	3	sse.	blue sky.
H. M. S. Tyne, S. 4° 36′, W. 15° 50′	29.98	761.5	80	26.7	78	ese.	.....	.....	4	.....	2	.....	.....	.....	.....	2	ese.	blue sky.
H. P. M. S. Tejo, Zaire, Guinea	30.08	763.9	83.3	28.5	77	sw.	.....	.....	2	.....	3	.....	.....	0	0	sm'h	.....	d. clouds.
S. S. Sirius, Santos, Brazil	29.99	761.7	.....	.....	.....	ssw.	.....	.....	2	.....	1	.....	ssw.	0	0	.....	.....	clear.
Bg. Daphne, S. 0° 39′, W. 31° 48′*†	29.90	759.4	82	27.8	79	sse.	.....	.....	2	.....	2	.....	var.	2 h'r	2 h'r	sm'h	se.	clear.
Bk. Horace Scudder, S. 9° 17′, E. 12° 12′*†	30.14	765.5	84	28.9	.....	wnw.	.....	.....	1	.....	2	.....	.....	0	0	sli't	s.	clear.
Bkt. Levanter, S. 15° 17′, W. 36° 24′*	30.05	763.3	87	30.6	.....	ese.	.....	.....	3	.....	2	.....	se.	0	0	sm'h	e.	clear.
S. St. David, S. 44° 23′, W. 35° 46′ *†	29.97	761.2	52	11.1	79	wsw.	.....	.....	5	.....	9	.....	wnw.	0	0	mod.	wnw.	cloudy.
S. David Stewart, Pernambuco, Brazil †	29.84	757.9	86	30.0	.....	s.	.....	.....	4	.....	2	.....	se.	0	0	.....	.....	
Bk. Godeffroy, S. 50° 27′, W. 46° 46′	29.07	738.4	48.6	9.2	97	nnw.	.....	.....	6	.....	10	.....	.....	12 h'r	12 h'r	mod.	n.	light rain.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	.....	.....	37	2.8	62	nnw.	.....	.....	3	.....	0	.....	.....	0.12	3.0	.....	.....	clear.
U. S. S. Adams, Sitka, Alaska†	30.32	770.1	30	— 1.1	95	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Alert, N. 15° 30′, W. 179° 54′	29.91	759.7	76	24.4	91	ene	.....	.....	5	.....	8	.....	ne.	.....	.....	mod.	nw.	fair.
U. S. S. Essex, Canton, China	30.21	767.3	66	18.9	64	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Juniata, Shanghai, China	30.41	772.4	37	2.8	71	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Monocacy, Shanghai, China	30.38	771.6	38	3.3	63	se.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Richmond, Shanghai, China	30.38	771.6	40	4.4	73	ene.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	hazy.
H. M. S. Audacious, Hong Kong, China	30.22	767.6	63	17.2	83	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, off Amoy, China	30.30	769.6	57	13.9	75	e.	.....	.....	2	.....	0	.....	.....	.....	.....	2	.....	blue sky.
H. M. S. Champion, Shanghai, China	30.45	773.4	37	2.8	81	var.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. P. M. S. Tamega, Macao, China	30.27	768.8	66.2	19.0	81	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	blue sky.
S. S. Newbern, N. 25° 35′, W. 110° 38′*†	30.20	767.1	60	15.6	71	nnw.	.....	.....	6	.....	2	.....	nw.	0	0	small	nnw.	clear.
S. S. Oregon, Portland, Oregon †	30.34	770.6	45	7.2	64	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Willamette, Puget Sound, Wash. Ter.†	30.40	772.1	41	5.0	91	nne.	.....	.....	2	.....	4	.....	nne.	0	0	.....	.....	clear.
S. S. Alameda, N. 31° 43′, W. 136° 04′ †	30.10	764.5	61	16.1	94	ssw.	.....	.....	4	.....	9	.....	sw.	rain	rain	mod.	ssw.	squally.
S. S. Ancon, Point Loma, Cal†	30.22	767.6	53	11.7	67	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Chester, Hookton, Cal. †	30.28	769.1	45	7.2	100	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	fine.
S. S. Orizaba, N. 37° 12′, W. (119°?) 40′ †	30.19	766.8	47	8.3	77	nne.	.....	.....	2	.....	fg.	.....	nw.	0	0	long	ssw.	foggy.
S. S. Queen of the Pacific, Port Townsend, W. Ter.†	30.45	773.4	42	5.6	91	calm	.....	.....	0	.....	10	.....	.....	0	0	long	nw.	cloudy.
S. S. State of California, San Francisco, Cal. †	30.31	769.9	44	6.7	92	calm	.....	.....	0	.....	10	.....	ne.	.....	.....	.....	.....	hazy.
S. S. City of Pekin, N. 46° 10′, W. 167° 45′	.....	.....	43	6.1	75	ssw.	.....	.....	2	.....	5	.....	s.	.....	.....	light	s.	fair.
S. S. City of Rio de Janeiro, N. 32° 38′, W. 136° 28′†	30.08	764.0	63	17.2	.....	sse.	.....	.....	4	.....	5	.....	ssw.	.....	.....	long	sw.	dull.
S. S. City of Sydney, N. 8° 04′, W. 162° 42′*†	29.85	758.2	79	26.1	78	ne.	.....	.....	4	.....	2 k	.....	ne.	.....	.....	r'gh	ne.	clear.
S. S. Colima, N. 35° 07′, W. 121° 24′	30.26	768.6	51	10.6	72	w.	.....	.....	2	.....	9	.....	nw.	0	0	mod.	w.	cloudy.
S. S. Granada, Punta Arenas, Costa Rica	.....	.....	80	26.7	74	calm	.....	.....	0	.....	0	.....	.....	0	0	mod.	var	clear.
S. S. San Blas, N. 28° 38′, W. 116° 30′ †	30.25	768.3	57	13.9	81	ne.	.....	.....	3	.....	0	.....	.....	0	0	small	ne.	clear.
Bk. Alpheus Marshall, N. 11° 42′, E. 156° 18′ *†	29.74	755.4	80	26.7	82	ese.	.....	.....	3	.....	3	.....	e.	0	0	light	ne.	clear.
S. S. Benalder, N. 13° 30′, E. 113° 15′ *	30.02	762.5	77	25.0	86	ne.	.....	.....	5–6	.....	0	.....	ne.	0	0	high	ne.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 17° 57′, W. 87° 15′	29.96	761.0	71	21.7	100	ese.	.....	.....	2	.....	8	.....	ese.	0	0	sm'h	sse	cloudy.
U. S. S. Lackawanna, S. 18° 27′, W. 78° 30′	29.96	761.0	71	21.7	85	se.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	s.	cloudy.
U. S. S. Onward, Callao, Peru *†	30.06	763.5	68	20.0	79	calm	.....	.....	0	.....	2	.....	.....	.....	.....	h'vy	w.	clear.
U. S. S. Wachusetts, Callao, Peru*	29.98	761.5	72	22.2	76	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
H. M. S. Diamond, S. 42° 50′, E. 149° 20′	30.08	764.0	55	12.8	74	n.	.....	.....	3	.....	3	n.	.....	.....	.....	4	n.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.56	750.8	55	12.8	87	calm	.....	.....	0	.....	7	.....	.....	.....	.....	sm'h	.....	showery
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	30.72	780.3	60	15.6	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.92	760.0	57	13.9	88	nnw.	.....	.....	1	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	28.87	733.3	50	10.0	75	wsw.	.....	.....	2–4	.....	8	wsw.	.....	.....	.....	.....	.....	d. clouds.
S. S. Australia, Sydney, N. S. W.	30.19	766.8	64	17.8	.....	nw.	.....	.....	3	.....	4	.....	s.	2 h'r	2 h'r	r'gh	s.	hazy.
S. S. George S. Homer, S. 37° 16′ W. 123° 37′ *†	30.12	765.0	.....	.....	.....	ese.	.....	.....	4	.....	3	.....	se.	1 h'r	1 h'r	long	sse.	clear.
S. Ismir, S. 19° 31′, W. 74° 21′*	30.25	768.3	.....	.....	.....	ssw.	.....	.....	1	.....	4	.....	ssw.	0	0	long	ssw.	raining.
S. St. Francis, S. 27° 50′, W. 86° 00′*†	30.23	767.8	70	21.1	80	e.	.....	.....	3	.....	2	.....	se.	0	0	mod.	sw.	clear.
S. Grecian, S. 31° 55′, W. 126° 28′ †	30.10	764.5	71	21.7	75	ese.	.....	.....	0	.....	10	.....	se.	1 h'r	1 h'r	sm'h	.....	cloudy.
S. Henry Failing, S. 37° 15′, W. 128° 00′*†	30.23	767.8	62	16.7	100	ese.	.....	.....	5	.....	7	.....	ese.	0	0	short	ssw.	fair.
H. M. S. Espiegle, S. 45°, 49′, E. 170° 39′	29.44	747.8	47	8.3	77	sw.	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	showery.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Hellville, Nossi Be Id., Africa	29.82	757.4	83	28.3	83	w.	.....	.....	2	.....	2	.....	calm	0	0	sm'h	.....	clear.
U. S. S. Pensacola, Tamatave, Madagascar*	29.75	755.6	84	28.9	71	s.	.....	.....	3	.....	5	.....	s.	light	light	long	ene.	fair.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	29.97	761.2	80	26.7	78	calm	.....	.....	0	.....	2	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.95	760.7	79	26.1	86	e.	.....	.....	1	.....	4	e.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.84	757.9	82	27.8	91	s.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Woodlark, Suez Canal, Egypt	30.03	762.7	60	15.6	44	w.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Galatia, N. 9° 53′, E. 83° 15′†	29.95	760.7	79	26.1	95	nne.	.....	.....	3	.....	3	.....	ne.	.....	.....	mod.	ne.	showery.
S. S. Port Phillip, S. 3° 34′, E. 74° 01′*	29.85	758.2	81	27.2	.....	nw.	.....	.....	3	.....	.....	.....	.....	.....	.....	sm'h	e.	cloudy.
S. S. Radnorshire, N. 5° 56′, E. 83° 00′ *†	29.96	761.0	.....	.....	.....	nne.	.....	.....	5	.....	1	.....	ne.	0	0	light	ene.	clear.
S. Carondelet, S. 8° 50′, E. 124° 15′ *†	29.85	758.2	.....	.....	.....	wsw.	.....	.....	3	.....	2	.....	wsw.	0	0	sm'h	sw.	clear.
S. S. Lepanto, N. 18° 22′, E. 68° 07′	29.96	761.0	74	23.3	.....	ne.	.....	.....	4	.....	0	.....	ne.	0	0	mod.	n.	fair.
H. M. S. Magpie, N. 6° 19′, E. 99° 19′	29.89	759.2	81.5	27.5	83	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	3	ene.	blue sky.

International Chart I. January 18, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 19, 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.43	773.0	59.7	15.4	75	nw.			1		0			0	0	clear	Roziere.
Algiers			30.45	773.4	57.6	14.2	69	ene.			2		10			0	0	covered	Aubert.
La Galle			30.39	772.0	64.4	18.0	39	nw.			2		4			0.118	3.0	cloudy	Fonfrède
Tunis			30.40	772.1	57.2	14.0	63	n.			3		3			0	0	pretty fair	Delord.
Tebessa					41.7	5.4	72	s.			1		0			0	0	clear	Hans.
Geriville					51.8	11.0	30	n			1		0			0	0	clear	Forfert.
Laghouat			30.45	773.5	59.4	15.2	74	calm			0		0			0	0	clear	Abraham.
Biskra			30.41	772.5	53.6	12.0	58	nw.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.82	757.4	60.7	15.9	83	ssw.	20	8.9			10 s			0	0	squally	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.47	748.5	29.66	753.4	69	20.6	54	n.			3		10		n.	0.04	1.0	cloudy	Com. I. Short, R.N.
Melbourne, Victoria	29.46	748.3	29.55	750.6	80.6	27.0	36	n.	3	1.3			5			0	0		R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.99	761.8	30.58	776.6	36.7	2.6	64	w.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.69	754.0	30.49	774.5	34.7	1.5	91	sw.	1.8	0.8			10			0.012	0.3		Dr. Wierzbiski
Eperies	29.57	751.1	30.51	774.9	32.0	0.0	87	calm			0		10			0	0		Julius Mikolik.
Gratz	29.25	742.9	30.57	776.4	38.3	3.5	55	s.			2		0			0.075	1.9		Andreas Rospini.
Hermannstadt	28.92	734.6	30.46	773.7	26.2	— 3.2	94	wnw.			1		10			0.004	0.1		Prof. A. Gottschling
Kremsmunster, Obs'y	29.19	741.3	30.60	777.1	28.8	3.8	75	nw.			1		4			0	0	fair	The Staff.
Lemberg	29.43	747.4	30.50	774.6	23.2	— 4.9	76	w.			1		10			0.079	2.0		Dr. T. Stanecki.
Pola	30.42	772.7	30.54	775.6	47.8	8.8	56	ne.			4		4			0	0		I. R. Hydrographic Office.
Szathmar	29.98	761.4	30.48	774.3	20.5	— 6.4	79	nw.			3		10			0.051	1.3		Joseph Midlinszky, S. J
Szegedin	30.22	767.7	30.53	775.4	29.3	— 1.5	82	n.			1		6			0.008	0.2		Karl Stancel.
Trieste	30.46	773.6	30.50	776.1	48.9	9.4	46	e.			2		0			0	0		Royal Academy.
Vienna	29.83	757.7	30.59	776.9	39.6	4.2	70	w.			2		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.83	732.2	30.28	769.0	34.7	1.5	91	e.			1		8			0	0	foggy	
Brussels	30.45	773.3	30.65	778.6	42.1	5.6	82	sw.			2	1		nne.		0	0	light fog	
Furnes	30.60	777.3	30.62	777.8	46.6	8.1	82	sw.			0.1		8			0	0		
Maeseyck	30.52	775.2	30.65	778.4	41.0	5.0	82	sw.			1		10			0	0	dense fog	
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			30.50	774.7	50.0	10.0	79	sw.	12	5.4			9					overcast	John Hartnup.
Bolton, Sharples	29.94	760.5	30.49	774.4	45.8	7.7	92	ssw.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	30.07	763.8	30.46	773.7	47.9	8.8	81	sw.			2		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.07	763.8	30.10	764.5	82	27.8	67	ne.			3		3					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	30.48	774.2	30.60	777.2	43.5	6.4	90	w.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	30.44	773.2	30.62	777.7	45.6	7.6	79	sw.			1		10					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.39	771.9	30.63	778.0	47.3	8.5	70	s.			1		10					overcast	The Staff.
Fort Napier, Natal	27.62	701.5	29.93	760.2	74.0	23.3	59	e.			1		10					overcast	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.89	759.2	83	31.1	52	e.			5		1					d. clouds	J. W. Smith.
Galway, Queen's College	30.29	769.4	30.33	770.4	49	9.4	93	sw.			2		8			0.13	3.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.44	773.2	30.49	774.4	59.0	15.0	88	e.			2		7					d. clouds	Sgt. F. Norris, A.H.C.
Greenwich, Royal Obs'y	30.43	772.9	30.61	777.5	46.7	8.2	77	wsw.			1		10					overcast	The Staff.
Guernsey	30.32	770.1	30.64	778.2	38.0	3.3	90	ese.			1		10					overcast	A. Collenette, F.R.M.S.
Kew, Observatory	30.58	776.7	30.62	777.7	45.5	7.5	82	w.	5	2.2			10					misty	The Staff.
Leicester, Museum	30.27	768.8	30.54	775.7	45.0	7.8	84	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.20	767.1	30.28	769.1	57.2	14.0	64	ne.			2		3			0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.10	764.5	73.0	22.8	85	se.			1		7					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.36	771.1	30.59	777.0	45.8	7.7	78	sw.			2		10					overcast	The Staff.
Plymouth	30.53	775.4	30.61	777.5	47.2	8.4	68	calm			0		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.17	766.3	30.27	768.8	45.1	7.3	68						0					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.14	765.5	30.21	767.3	34.4	— 0.3	95	nne.			2		10					snowing	W. H. Lyne.
Sheffield	29.26	743.2	30.54	775.7	49.0	9.9	77	sw.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.39	771.9	30.42	772.7	46.8	8.2	99	sw.			3		10			0.195	5.0	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.50	774.7	45.9	7.7	94	wsw.	10	4.5			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					45.8	7.7	92	sw.			1.1		10					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.39	771.9	30.41	772.4	52.1	11.2	90	s.	42	18.8			10					threatening	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.93	760.2	30.33	770.4	55.4	13.0	61	ne.	4.3	1.9		4 c	5 n	w.	ne.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.27	768.8	30.31	769.9	5.0	—15.0		calm	0	0		8 cs	0			0	0	d clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.10	764.5	30.14	765.5	6	—14.4	91	ne.	2	0.9			10 s		w.	0.010	0.3	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.13	765.3	30.19	766.8	1	—17.2	95	n.	1	0.4		2 c	2 s	n.	n.	0.03	0.8	fair	G. A. Blair.
Cornwall, Ontario	29.83	757.7	30.04	763.0	— 2.8	—19.3	100	e.			2		10 s			0.020	0.5	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.17	766.3	30.22	767.6	— 6.5	—21.4		w.			1		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.25	768.3	30.27	768.8	—13	—25.0	100	n.	8	3.6		8 c	2 s	calm	calm	inap.	inap.	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.52	749.8	30.52	775.2	—23	—30.6		s.	11	4.9		0	0			0	0		James Stewart.
Fredericton, N. B.	30.11	764.8	30.18	766.6	7.1	—13.8	75	w.	3.0	1.3			10 s			0.040	1.0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B.	30.02	762.5	30.08	764.0	18	— 7.8	83	ne.	16	7.2			10 n					light snow	J. Chipman Seeley
Granton, Ontario	28.81	731.8	30.00	762.0	14.5	— 0.7	97	ne.	2	0.9			10 n			inap.	inap.	overcast	Jas. Grant.
Halifax, N. S*	29.96	761.0	30.10	764.5	17	— 8.3	91	n.	6	2.7			10 s			0	0	cloudy	A. Allison.
Hamilton, Ontario	29.50	749.3	29.94	760.5	11.7	—11.3	89	ne.			2	10 cs	0	ne.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.62	752.3	30.00	762.0	2	—16.7	70	ne.	12	5.4			10 k		ne.	0.06	1.5	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.09	764.3	30.13	765.3	13.0	—10.6	81	ne.	3	1.3			10 n			0.300	7.6	overcast	C. H. Rigby.
London, Ontario	29.00	736.6	29.97	761.2	14.8	— 9.6	80	n.			2		10 n			0.10	2.5	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.87	707.9	30.30	771.1	9	—12.8	96	s.	10	4.5		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	28.26	717.8	30.51	774.9	—17	—27.2	100	w.	25	11.2		hz.	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	29.90	759.4	30.13	765.3	— 4	—20.0	83	e.	12	5.4			10 n			inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.86	758.4	30.11	764.8	2.2	—16.6	100	n.				0	9 s			inap.	inap.	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.35	745.5	30.15	765.8	— 9	—22.8	61	e.	18	8.0		5 k	5 ks	n.	w.	0.10	2.5	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.20	741.7	30.02	762.5	4.7	—15.2	62	sw.					10 k			0.08	2.0	snowy	Wm. O'Connor, M.A.
Port Arthur	29.68	753.9	30.51	774.9	—16	—26.7	90	s.	5	2.2		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.18	741.2	29.93	760.2	12	—11.1	100	n.	14	6.3			10 n			0.15	3.8	threatening	H. Morgan.
Port Stanley, Ontario	29.30	744.2	30.00	762.0	16	— 8.9	83	n.	12	5.4			10 n		ne.	0.08	2.0	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.82	706.6	30.41	772.4	—10	—23.3		sw.	4	1.8		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.77	756.1	30.17	766.3	0	—17.8	83	n.	16	7.2			10 ks		nw.	0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.72	754.9	30.20	768.6	—19	—28.3	72	nw.	5	2.2		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B.	30.06	763.5	30.12	765.0	11	—11.7	92	ne.	6	2.7			10 n					light snow	
St. John, N. B	29.96	761.0	30.12	765.0	12.5	—10.8	90	n.	12	5.4			10 n			0.300	7.6	snowy	G. Hutchinson.
Saint John's, N. F.																			J. Higgins.
St. Pierre, N. F.			30.00	762.0	23.0	— 5.0		w.			3								The Commandant.
Saugeen, Ontario*	29.29	744.0	30.09	764.3	2	—16.7	96	n.	12	5.4		0	0			0.01	0.3	clear	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.62	726.9	30.00	762.0	11.3	—11.5	90	w.	4	1.8			10 n			0.050	1.3	overcast	W. Mc Bride, M. A.
Sydney, C. B*	30.04	763 0	30.11	764.8	10	—12.2	87	nw.	5	2.2		10 k	0	w.		0.05	1.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.61	752.1	30.03	762.7	8	—13.3	80	ne.	20	8.9			10 n			0.03	0.8	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.86	733.0	30.02	762.5	11.4	—11.4	92	n.	12	5.4			10 s			0.100	2.5	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.93	760.2	29.99	761.7	26	— 3.3	76	ne.	7	3.1		10 k	0	w.		0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.01	762.2	30.04	763.0	73.5	23.1	81	sse.				0	0			0	0	clear	I. Garfelt.
Cape Town, The Castle	29.82	757.4			73.2	22.9	44	ene.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.84	707.1			84	28.9	40									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.87	758.6	29.95	760.6	65.5	18.6	89	n.			3	0	2					fair	Samuel Redolez.
Iquique	29.88	759.0	29.91	759.7	77.0	25.0	73	sw.			2	4 c	0					foggy	Rafael Moreno.
Niebla	29.72	754.9	29.83	757.6	56.5	13.6	69	e.			4	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.84	757.8	29.92	760.0	69.8	21.0	69	se.			1	4 n	0	se.				fair	Manuel Tobar.
Punta Corona	30.08	764.0	30.26	768.7				e.			2	0	0			0	0	clear	Francisco Alvarado.
Valparaiso	29.77	756.1	29.91	759.6	66.6	19.2	72	e.				0	0					clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.52	775.1	30.54	775.7	34.2	1.2	76	n.	2.2	1.0			0			0	0		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.39	771.9	30.44	773.1	41.4	5.2	86	wsw.	16	7			10					hazy	Oversergent Fischer.
Fanöe	30.45	773 3	30.47	773.8	41.5	5.3	91	wsw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29 48	748.8	29.52	749.9	— 2.0	—18.9	100	nw.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.28	743.7	29.32	744.8	28.4	— 2.0	88	se			4		10					snowing	A. O. Thorlacius.
Thorshavn	29.98	761.5	30.00	762.1	38.1	3.4	75	wsw.	22	10			7						Overloerer Borgh.
Vestervig	30.28	769.0	30.37	771.4	42.6	5.9	100	sw.			6		8					hazy	Loerer Oesterbol.
Egyptian.																			
Cairo	29.89	759.3			59.9	15.5		s.	4.9	2.2		0	8 ks			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	30.00	762.1	30.69	779.4	39.2	4	90	se.			1		10			0	0	dense mist	M. Labroue, Director.
Alençon, Normal School	30.01	762.2	30.56	776.2	39.6	4.2	93	e.			1		n		w.	0	0		M. Nicot, Director.
Arras, Normal School			30.59	777.0	34.9	1.6	89	wnw.			1		10			0	0	covered	M. Ungerer, Director.
Avignon, Normal School	30.47	774.0	30.55	776.0	48.6	9.2	58	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.08	764.1	30.67	779.1	37.4	3.0	92	ese.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.39	772.0	30.68	779.2	38.8	3.8	90	e.			1		10			0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.62	752.4	30.56	776.2	34.3	1.3	96	ne.			1					0	0	foggy	M. Gobin, Director.
Bordeaux, Observatory	30.32	770.2	30.60	777.2	40.5	4.7	88	ne.			1		10			0.012	0.3	covered	M. Rayet, Director.
Bourges, Normal School	30.09	764.3	30.69	779.4	32.0	0	100	e.			1				e.	0	0	foggy	M. Sauvageot, Director.
Brest, Naval Observatory	30.39	771.8	30.63	778.0	37.4	3.0	96	sw.			1		10		sw.	0	0	misty	M. de Kermarée, Dir.
Caen, Normal School	30.54	775 8	30.63	777.9	40.3	4.6	100	e.			1		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	30.31	769.8	30.65	778.4	36.1	2.3	96	e.			1		10			0	0	covered	M. Judot, Director.
Charleville, Normal School	30.12	765.1	30.64	778.3	34.9	1.6	78	e.			1					0	0		M. Noël, Director.
Clermont-Ferrand Obs'y	29.19	741.4	30.64	778.2	33.1	0.6	92	nnw.			1		10			0	0		M. Allnard, Director.
Cluny, Normal School	29.74	755.3	30.61	777.6	35.6	2	93	s.			1		10			0	0		M. de Villemontée, Dir.
Cominercy, Normal School	29.75	755.6	30.64	778.2	37.8	3.2	95	e.			1		10	e.	e.	0	0	covered	Dr. Goulet, Director.
Gap, Normal School	27.90	708.7	30.49	774.5	49.1	9.5	36	calm			0		0			0	0		M. Jarach, Director.
Grenoble, Normal School	29.35	745 6	30.50	774.8	53.8	12.1	54	n.			1		0			0	0		M. Kina, Director.
Guéret, Normal School	29.76	756.0	30.58	776.6	39.2	4	67	sse.			1		0			0	0	clear	M. Ablard, Director.
Lamballe, Normal School	28.98	736.0	30.63	778 0	35.6	2	83	ne.			1		n		ne.	0	0		M. Delorme, Dir.
Lescar, Normal School																			M. Poilpre, Director
Lorient, Naval Observatory	30.01	762.2	30.59	776.9	49.6	9.8	61	nne.			1		5 k			0	0	cloudy	M. Chauvin, Director.
Lyon, St. Genis-Laval	30.54	775.8	30.65	778.4	38.5	3.6	70	se.			1					0	0		Lt. T. Carre, Director.
Mans, Normal School	29.53	750.0	30.65	778.5	34.9	1.6	91	nnw.			1		0			0	0		M. André, Director.
Marseille, Observatory	30.35	770.9	30.68	779.2	37.2	2.9		ese.			1		10			0	0	misty	M. Richard, Director.
Montlouis	30.21	767.4	30.48	774.3	54.7	12.6	68	sw.			0–1		0			0	0		M. Stephan, Director.
Montpellier, Normal School	25.15	638.9	30.00	761.9	47.3	8.5	35	s.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Nancy, Normal School	30.39	771.8	30.50	774.6	49.3	9.6	64	n.			2		0			0	0	clear	M. Galzin, Director.
Nantes, Observatory	29.85	758.2	30.67	779.1	36.7	2.6	96	wnw.			1					0	0	foggy	M. Hasse, Director.
Perpignan, Observatory	30.50	774.8	30.67	778.9	36.7	2.6	93	ese.			0–1		10			0	0		M. Larocque, Director.
Pic-du-Midi, Summit	30.44	773.2	30.59	776.2	46.8	8.2	56	se.	1.8	0.8			1			0	0		Dr. Fines, Director.
Privas, Normal School	21.51	546.3			30.7	— 0.7		ne.			1		1		ne.	0	0	clear	M. Vaussenat, Director.
Puy de Dôme Obs'y, Summit	29.47	748.6	30.58	776.7	43.2	6.2	77	n.			1					0	0		M. Talliéu.
Rochefort, Naval Obs'y	25.54	648.6			39.4	4.1	42	ene.			3		0			0	0		M. Allnard.
Roche-sur-Yon, N. School	30.61	777.4	30.64	778 2	38.8	3.8	87	e.			2		10		ene.	0	0	covered	Lt. E. Decante, Director.
Rodez, Normal School	30.30	769.6	30.53	775.4	39.2	4	90	e.			1		10			0	0	covered	M. Brotier, Director.
Rouen, Normal School	28.33	719.6	30.61	777.6	30.4	— 0.9										0.016	0.4	foggy	M. Seger, Director.
St. Lô, Normal School	30.50	774.8	30.55	776.0	39.2	4	93	se.			1		10			0	0	foggy	M. Mouillot, Dir.
Saint Maur, Observatory			30.52	775.1	35.6	2	85	se.			1		10			0	0	covered	M. Delaplanche, Dir.
Toulouse, Observatory	30.50	774.8	30.67	779 0	35.2	1.8	98	ene.			1		10			0	0	covered	M. Renou, Director.
Tours	29.89	759.1	30.62	777.8	38.1	3.4	93	ne.			1		10		nw.	0	0	covered	M. Baillard, Director.
Versailles, Observatory	30.39	771.9	30.57	775.4	38.5	3.6	90	ne.			1					0	0	misty	M. de Tastes.
Sub-series.	30.15	765.8	30.64	778.3	34.9	1.6	100	e.			1		10			0	0	covered	Dr. A. Berigny, Director.
St. Martin du Hinx	30.45	773.3	30.60	777.1	49.8	9.9	73	se.	4.0	1.8		4 ck			w.	0	0		M. Cartier, Director.
German.																			
Ansbach	29.15	740.3	30.68	779.3	37.8	3.2	80	calm			0		8			0	0		Prof. Jnedt.
Bamberg	29.72	754.8	30.58	776.7	39.9	4.4	70	calm			0		10			0	0		Prof. Dr. Hoh.
Berlin	30.42	772.7	30.58	776 6	37.8	3.2	92	w.			2		10			0.008	0.2		Meteorological Institute
Breslau	30.00	762.0	30.54	775.7	36.3	2.4	89	wnw.			2		10			0.035	0.9	light rain	Royal University Obs'y
Carlsruhe	30.17	766.2	30.66	778 7	33.1	0.6	94	sw.			2		10			0	0	dense fog	Albert Senz.
Cassel	29.88	758.9	30.59	777.0	36.3	2.4	85	s.			1		10	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.26	768.6	30.05	778.4	40.6	4.8	76	s.			1		10			0	0		Physical Society.
Friedrichshafen	29.15	740 3	30.65	778.5	35.2	1.8	77	ssw.			2		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.49	774.4	30.58	776.7	39.4	4.1	90	w.			3		10			0	0		E. Prentier.
Kiel	30.51	775.0	30.53	775.4	41.4	5.2	87	sw.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.19	766.7	30.63	777.9	37.6	3.1	84	nw.			1		10			0.016	0.4		H. Leppig, Asst.
Magdeburg	30.40	772.1	30.60	777.2	37.2	2.9	80	wnw.			2		10			0.035	0.9	foggy	Weather Observatory.
Memel	30.30	769.6	30.35	770.8	36.3	2.4	93	nw.			5		10 s						Issermann.
Munich	28.72	729.6	30.63	777.9	36.1	2.3	66	ne.			2		1			0	0		Central Station.
Neufahrwasser	30.40	772.1	30.41	772.5	36.7	2.6	93	nw.			3		10			0.012	0.3	light rain	A. Lothes.
Neustadt, Palatinate	30.06	763.6	30.60	777.2	41.7	5.4	82	nw.			2		2			0	0		Dicknether.
Stuttgart	29.63	752.5	30.56	776.2	42.8	6.0	70	s.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.51	775.0	30.54	775.6	39.0	3.9	93	sw.			2		10			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.89	759.1	30.29	769.3	37.4	3.0		n.			1.0		10 k			0.035	0.9	light snow	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.07	763.7	30.12	765.0	71.9	22.2	66	sw.	13.0	5.8			1			0	0	d. clouds	
Deesa	29.61	752.0	30.09	764.3	76.2	24.0	32	nw.	10.0	4.5			0			0	0	blue sky	
Bombay	29.97	761.2	30.00	762 1	77.4	25.2	71	nnw.	19.0	8.5			0			0	0	blue sky	
Poona, Yarrowda	28.14	714.8	30.01	762.3	77.3	25.2	35	e.	6.0	2.7			0			0	0	blue sky	
Belgaum	27.43	696.7	29.97	761.2	78.0	25.6	35	ene.	4.0	1.8			5	e.	w.	0	0	d. clouds	
Lahore	29.39	746.4	30.16	766.2	62.6	17.0	64	calm	0	0			5			0	0	d. clouds	
Roorkee	29.17	741.0	30.10	764 6	66.8	19.3	41	w.					0			0	0	blue sky	
Agra	29.54	750 2	30.12	765 1	69.2	20.7	53	calm	0	0			0			0	0	blue sky	
Nagpur	29.00	736.6	30.07	763.7	72.2	22.3	45	calm	0	0			2	e.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Tubbulpore	28.71	729 2	30.11	764.8	66.7	19.3	65	calm	0.7	0.3			0			0	0	blue sky	
Lucknow	29.72	754.8	30.11	764.8	66.3	19.1	52	wnw.	2.0	0.9			0			0	0	blue sky	
Allahabad	29.78	756.4	30.10	764.5	66.4	19.1	70	calm	0	0			0			0	0	blue sky	
Patna	29.88	759.0	30.08	763.9	68.5	20.3	64	nw.	2.0	0.9			0			0	0	blue sky	
Hazaribagh	28.00	711.3	30.08	764.0	65.6	18.7	50	nnw.	4.0	1.8			10	W.		0	0	overcast	
Cuttack	29.98	761 4	30.06	763.6	73.2	22.9	74	e.					4			0	0	d. clouds	
Calcutta, Alipore	30.05	763 2	30.07	763.8	67.8	19.9	79	calm	0	0			7			0.02	0.5	d. clouds	
Dhubri	29.92	760 0	30.05	763.2	70 4	21.3	57	calm	1.4	0.6			4			0	0	d. clouds	
Chittagong	29.98	761.4	30.07	763.7	69.5	20.8	84	w.	3.1	1.4			10			0	0	overcast	
Sibsagar	29.74	755.3	30.09	764 2	60.9	16.1	85	ne.	1.0	0.4			8	W.	W.	0	0	d. clouds	
Jeypore	28.66	727.8	30.15	765.8	66.9	19.4	55	calm	0.5	0.2			5			0	0	d. clouds	
Zanzibar	29.78	756.3	29.86	756.8	85.1	29.5	53	ne.	10.8	4.8			5			0	0	d. clouds	
Bellary	28.44	722.4			78.5	25.8	60	wnw.	4	1.8		3 c	0			0	0	d. clouds	
Trichinopoly	29.75	755.6			82.4	28.4	65	e.	0.1	0.04		3	3			0	0	d. clouds	
ITALIAN.																			
Udine	30.12	765.0	30.54	775.8	45.7	7.6	46	calm	0	0			5			0	0		Prof. Giovanni Clodig.
Milan	30.04	763.0	30.58	776.7	40.5	4.7	67	nw.	1.3	0.6			2			0	0		Prof. G. V. Schiapparelli
Padua	30.44	773.1	30.55	776.0	42.8	6.0	64	nne.	3.8	1.7			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.62	752.4	30.57	776.4	39.9	4.4	62	ene.	1.8	0.8			0			0	0		Prof. F. F. Denza.
Genoa	30.30	769 6	30.50	774.6	54.5	12.5	41	n.					0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.51	775.0	30.56	776.3	42.4	5.8	80	n.	6.9	3.1			10			0	0		Prof. Luigi Guidi.
Florence	30.23	767.8	30.49	774.5	51.4	10.8	45	ne.			2		1			0	0		Prof. Costantino Pittei
Leghorn	30.33	770.4	30.42	772.6	51.3	10.7	54	e.	7.4	3.3			0			0	0		Prof. P. Monte.
Rome	30.21	767 3	30.39	771.9	55.2	12.9	35	nnw.	3.8	1.7			5			0	0		Prof. P. Tacchini.
Lecce	30.07	763 8	30.34	770.5	45.6	0.8	27	ne.	22.4	10.0			4			0	0		Prof. C. de Giorgi.
Cosenza	29.42	747.2	30.34	770.7	46.0	7.8	72	w.	2.5	1.1			9	nw.		0	0		Prof. D. Conti.
Cagliari	30.17	766.3	30.37	771.3	55.6	13.1	58	calm			0		0			0	0		Prof. A. Pacinotti.
Palermo	30.09	764.3	30.35	770.8	54.0	12.2	59	n.	5.6	2.5			9	ne.		0	0		Prof. G. Caccia tore.
Syracuse	30.22	767 7	30.27	768.8	54.0	12.2	63	n.	4.9	2.2			10	wnw		0.079	2.0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.85	758.1	30.39	771.9	50.5	10.3	58	nne.	3.8	1.7			6	ne.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.94	760.6	29.97	761.5	25.0	— 3.9	100	e.			4		10 n			0.630	16.0	snowing	H. Hattori.
Awomori	29.91	759.7	29.95	760.7	19.0	— 7.2	78	calm	0	0		0	3 s			0	0	fair	K. Ogawa.
Hakodate	29.93	760.1	29.94	760.4	21.0	— 6.1	70	calm	0	0			9 n			0.398	10.1	snowing	Y. Souma.
Hamamatsu	29.89	759.2	29.99	761.7	31.0	— 0.6	72	w.			6	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.22	767 7	30.24	768.1	26.6	— 3.0	92	ne.	1.8	0.8		0	0			0	0	clear	Y. Okamoto.
Kagoshima	30.29	769.2	30.30	769.5	32.0	0.0	87	calm			0	0	0			0	0	clear	
Kanazawa	29.96	761.0	30.07	763.8	27.0	— 2.8	100	se.	9.4	4.2			10 n			0.537	13.6	snowing	S. Endo.
Kioto	29.90	759 5	30.07	763 9	31.3	— 0.4	89	nnw.	2.5	1 1		0	5s;ck		nw.	inap.	inap.	fair	M. Tojima.
Kochi	30.16	766 0	30.18	766.5	33.0	0.6	76	nw.	3.7	1.6		1 ck	0	w.		0	0	clear	K. Kusunose.
Mifasaka	30.23	767.9	30.26	768.7	33.0	0.6	61	wnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.85	758.3	29.96	761.1	26.8	— 2.9	64	wsw.	4.0	1.8		0	1 s			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.11	764.8	30.32	770.1	35.1	1.7	78	n.	9.0	4.0			10 n			0.020	0.5	snowing	
Nemuro	29.92	760.0	29.97	761.2	27.8	— 2.3	70	nw.	12.0	5.4		1 k	0			0	0	clear	A Shibuya.
Niigata	29.97	761.2	30.00	762.0	27.1	— 2.7	93	sw.	11.2	5.0			10 n			0.780	19.8	light snow	Satoo & Tomikawa.
Nobiru	29.93	760.3	29.95	760.7	21.6	— 4.1	98	nnw.	10.1	4.5		0	1 s			0	0	clear	Yoslino & Midzushina.
Numadzu	29.87	758.7	29.90	759.5	35.0	1.7	65	nne.			4	0	3 s			0	0	clear	T. Ohgi.
Osaka	30.08	764.1	30.10	764.5	30.7	— 0.7	54	wsw.	20.6	9.2		0	0			0.010	0.2	clear	d. Omura.
Sakai	30.15	765 8	30.16	766.0	26.8	— 2.9	83	sw.			2		10 n		w.	0.590	15.0	snowing	Yamawchi & Sakamoto.
Sapporo	29.90	759.5	29.97	761.3	19.2	— 7.1	58	e.	3.5	1.5		0	1 s			0.010	0.3	clear	S. Kimura.
Shimonoseki	30.12	765.1	30.27	768.8	34.2	1.2	63	w			4		10 ks			0.024	0.6	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.85	758.3	29.94	760.4	33.1	0.6	75	nne.	11.7	5.2			10ks;s			0	0	cloudy	The Staff.
Wakayama	30.09	764.2	30.14	765 6	31.9	— 0.1	70	nw.	9.8	4.4		0	0			0	0	clear	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.65	753.1	29.84	757.0	81.3	27.4	68	ese.	26.0	11.6		7cs;c	2 kn		ese.	0.02	0.5	cloudy	The Staff.
MEXICAN.																			
Leon	24.34	618.2	30.20	767.1	44.2	6.8	89	calm	0	0		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.84	757.8	30.10	764.5	65.5	18.6	66	nw.	1.6	0.8		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.65	778.4	30.65	778.4	43.5	6.4		sw.			3					0	0		
Groningen	30.59	776.9	30.64	778.3	40.6	4.8		sw.			1					0	0		
Helder	30.57	776.4	30.57	776.4	42.6	5.9		sw.			2					0	0		
Hellevoetsluis	30.63	778.0	30.63	778.0	49.6	9.8	92	wsw.			2					0.008	0.2		
Utrecht	30.59	776.9	30.64	778.3	41.5	5.3	91	sw.			1		10			0	0	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.6			78.3	25.7	93	nnw.	0	0			7			0.299	7.6		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.09	764.3	30.15	765.7	44.2	6.8	94	s.	18	8			10			0.591	15.0	raining	
Brono	29.51	749 5	29.55	750.5	43.3	6.3	91	sw.			7		10			0.335	8.5	raining	
Christiania	30.00	762.1	30.16	766.1	26.2	— 3.2	98	calm	0	0			10			0	0	foggy	
Gjæsvær	29.13	740.0	29.16	740.6	39.2	4.0		wsw.			7		9			0.323	8.2	raining	
Lodingen	29.32	744 6	29.36	745.8	38.1	3.4	85	wnw.			1		10			0.433	11.0	raining	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.37	771 4	30.46	773.7	64.9	18.3	70	ese.	4.9	2.2			3	ene.		0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	30.19	766.7	30.54	775.7	41.0	5.0	100	ne.	4.3	1.9			10			0.008	0.2	foggy	The Staff.
Ponta Delgada, Azores	30.39	771.9	30.46	773.7	61.9	16.6	90	s.	4.3	1.9			3			0.039	1.0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.04	763 1	30.08	764.0	70.2	21.2	66	ne.			5		3			0	0		
San Salvador, Congo	28.07	712.9	29.88	758 9	84.0	28.9	62	wnw.			2		8			0	0		
Serra da Estrella	25.65	651.4	30.39	772.0	52.7	11.5	15	s.	4.9	2.2			0			0	0		
RUSSIAN.																			
Akmolinski	28.95	735.3	30.15	765.8	2.3	—16.5	85	e.	13	6			10 n			0	0		Major K. Lasarew.
Archangel	29.95	760 7	29.97	761.2	4.3	—15 4	90	sse.	18	8			10			0.059	1.5	snowing	Capt. Sselliwerstow
Ashuruda	29.85	758.3	29.76	755.9	58.8	14.9	68	ose.	7	3		0	3 k			0	0		
Astrakhan	29.99	761.8	29.91	759.8	19.2	— 7.1	84	nnw.	7	3			10 n			0.130	3.3	h'vy clouds	Capt. Wisganow.
Baku	29.91	759.7	29.86	758.5	41.2	5.1	77	n.	31	14		0	3 ks			0	0		
Barnaul	29.83	757.7	30.41	772.4	—12.6	—24.8	90	sw.	4	2			3			0	0		Meteorological Office.
Bielosersk	29.85	758.2	30.38	771.6	— 0.9	—18.3	89	s.	7	3		ck	8 s			0.012	0.3	light snow	
Dorpat	29.93	760.1	30.19	766.7	27.0	— 2.8	100	ssw.	9	4			10 n			0.016	0.4		Observatory.
Ekaterinburg	29.28	743.7	30.38	771.0	— 7.4	—21.9	90	calm	0	0		2 c	0			0	0	foggy	Meteorological Obs'y
Elisawetgrad	29.76	756.0	30.26	768.7	9.3	—12.6	80	nnw.	13	6		0	8 n			0	0		
Kasan	30 10	764.4	30.40	772.2	— 2.9	—19.4	100	nne.	7	3			7			0	0		Observatory.
Kem	29.74	755.5	29.80	756.8	13.6	—10.2	93	sw.	45	20			10			0	0	h'vy clouds	
Kertch	30.00	762.0	30.02	762.6	15.1	— 9.4		nw.	7	3			10 n					light snow	Lagorio & Sastyres.
Kieff	29.63	752.7	30.34	770.7	5.5	—14.7	78	nnw.	13	6		0	1 ks			blank	blank		Observatory.
Koslov	29.56	750.5	30.11	764.8	10.6	—11.9	81	nne.	20	9			10 s			0	0		
Lgov	29.61	752.0	30.26	768.6	4.6	—15.2	77	n.	22	10		0	7			0.012	0.3	snowing	R. I. Ssaweljew, Engin'r.
Libau	30.26	768.6	30.28	769.2	35.2	1.8	90	w.	7	3			10			0	0		L. Quass.
Lugan	29.59	751.5	29.81	757.1	17.4	— 8.1	77	wnw	4	2			3			0.010	0.4	light clouds	Meteorological Obs'y
Moscow	29.87	758.7	30.43	772.9	— 7.2	—21.8	78	calm	0	0		0	0			0	0		Meteorological Obs'y
Nertschinsk	28.25	717.6	31.01	787.6	—27.4	—33.0	82	calm	0	0			0			0	0		

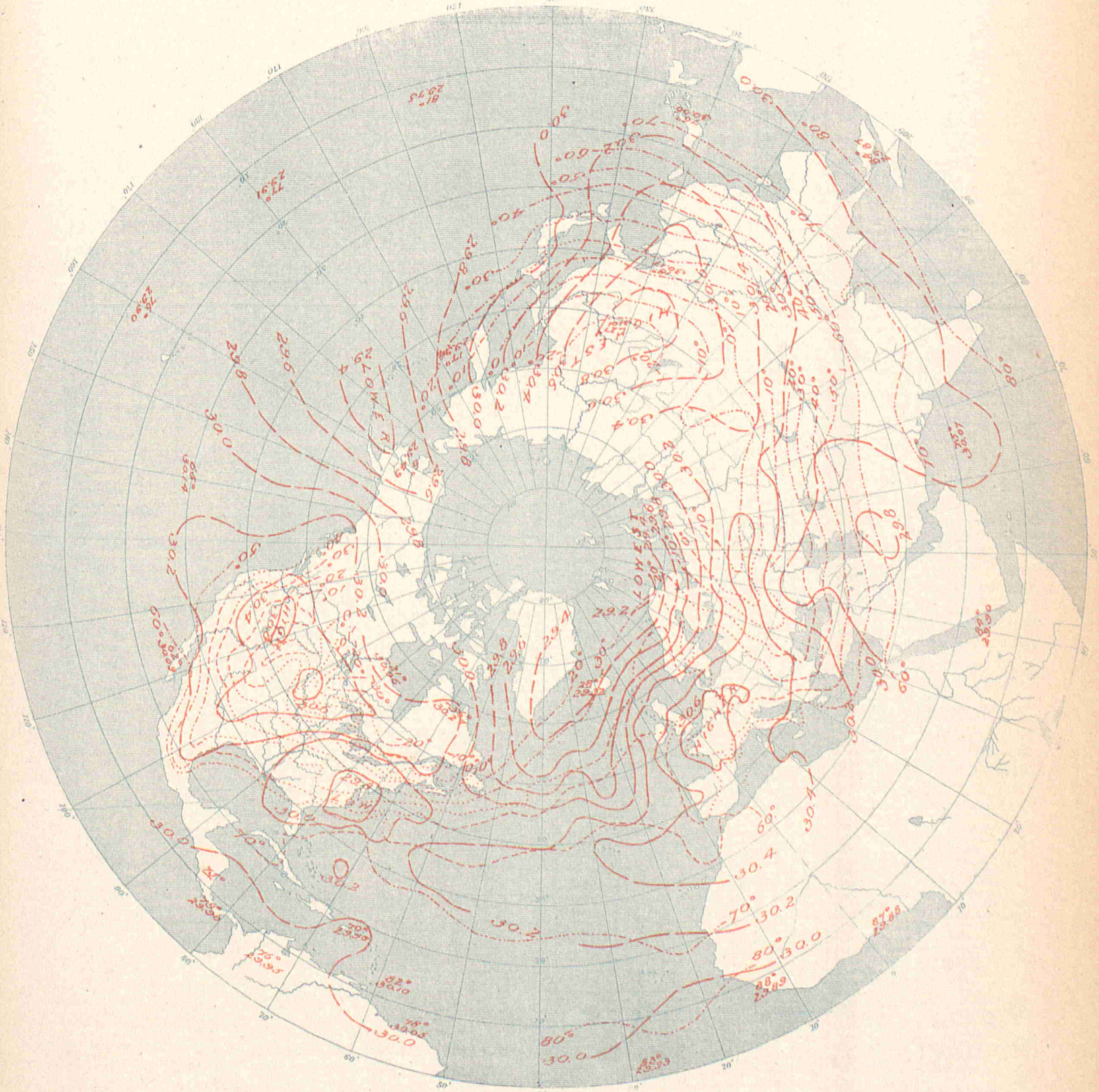
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaiev	30.18	766.5	30.25	768.3	15.4	— 9.2	81	nnw.	22	10			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolievsk-on-the-Amoor.	30.30	769.6	30.39	771.8	—12.6	—24.8	84	calm	0	0		0	0						Iwanow.
Pekin, China	30.56	776.3	30.71	779.9	18.0	— 7.8	69	calm	0	0		1 c	0			0	0		Physical Observatory
Petro-Alexandrovsk	29.54	750.3	29.90	759.5	44.6	7.0	72	ne.	1.1	0.5			10 ks						
Petrozavodsk	29.86	758.5	30.08	763.9	10.4	—12.0	81	ssw.	16	7			10			0.177	4.5		Dr. Bergmann.
Pinsk	29.93	760.1	30.47	773.8	19.0	— 7.2	81	anw.	7	3			10 n					snowing	
Poti	29.98	761.5	30.01	762.3	34.7	1.5	96	se.	4	2			10 n			0.850	21.6	snowing	
St. Petersburg	30.12	765.1	30.15	765.7	13.5	—10.3	92	sse.	11	5			10 n			0.126	3.2		Central Physical Obs'y.
Samarkand	27.45	697.1	29.90	759.4	54.9	12.7	56	calm	0	0		0	7 k						
Semipalatinsk	29.65	753.0	30.41	772.3	—11.4	—24.1	82	calm	0	0			4			0	0		Major Lasarew
Sevastopol	29.95	760.6	30.18	766.5	16.9	— 8.4	79	ne.	20	9			9 n			0	0		
Staroi Bykhov	29.82	757.4	30.44	773.1	6.8	—14.0	71	ne.	2	1			10			0	0		
Tashkend, Laboratory	28.30	718.8	29.98	761.5	50.5	10.3	63	nw.	18	8		0	0						Terch, A. M
Tiflis	28.43	722.2	29.90	759.4	36.5	2.5	47	nw.	18	8		0	8 k			0.201	5.1		Physical Observatory.
Vernoe	27.48	697.9	30.09	764.2	31.3	— 0.4	83	calm	0	0		0	0						
Viatka	29.76	756.0	30.50	774.6	—13.4	—25.2	89	calm	0	0			8			0	0		
Vladivostock	30.27	768.9	30.34	770.6	5.9	—14.5	83	nne.	18	8		0	6 n			0	0		
Warsaw	30.00	762.1	30.45	773.5	33.8	1.0	89	w.	4	2			10			0.031	0.8	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.97	761.1	30.29	769.4	— 7.6	—22.0	77	w.	9	4			0?			0.047	1.2	snowing?	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.74	755.4	30.38	771.6	—11.9	—24.4	73	nw.	10	4.5		0	0			0	0	clear	Prof. S. Fadeleff.
SPANISH.																			
Barcelona, Met. Obs'y	30.40	772.1	30.51	775.0	55.8	13.2	69	s.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.54	775.8	30.60	777.3	50.0	10.0	73	se.	1.1	0.5		3	6	se.		0	0	almost cov'd	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.47	697.6	30.49	774.4	50.4	10.2	26	ne.	6.9	3.1		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.21	716.6	30.52	775.2	48.7	9.3	57	ne.	2.7	1.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.33	770.4	30.47	773.8	54.7	12.6	75	ene.	1.1	0.5		5	4	w.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.53	750.1	30.45	773.5	48.2	9.0	76	ne.	1.3	0.6			0			0.004	0.1	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761.7	30.06	763.4	63.7	17.6	91	se.	0.9	0.4		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.00	761.9	30.06	763.4	76.0	24.4	82	se.	1.1	0.5		0	7 ks		ne.	0	0	cloudy	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.39	771.8	30.49	774.3	60.8	16.0	67	e.	4.0	1.8		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	29.81	757.2	29.90	759.5	70.2	21.2	98	calm	0	0		2 s	4 kn	n.	n.	0.087	2.2	cloudy	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.59	751.5	29.63	752.5	34.5	1.4	96	sw.			4		0			0.382	9.7		
Umea	29.75	755.7	29.80	757.0	33.8	1.0	89	calm			0		0			0	0		
Hernosand	29.77	756.1	29.82	757.4	28.4	— 2.0	92	calm			0		0			0.028	0.7		
Stockholm	29.92	760.0	30.10	764.5	36.3	2.4	85	w.			4		0			0	0		
Wisby	30.13	765.2	30.19	766.7	38.1	3.4	90	wnw.			6		3			0	0		
Sub-series.																			
Upsala	29.99	761.7	30.08	763.9	34.5	1.4	90	wsw.	11.9	5.3			10			0	0		H. H. Hildebrandsson.
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.24	768.2	29.7	— 1.3	98	nnw.	18	8.0			10		nnw.	0.551	14.0	snowing	The Observatory.
Valona			30.27	768.9	46.9	8.3		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.88	758.9	55.2	12.9	71	sw.			3		10 n		sw.	1.06	26.9		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.82	757.4	29.91	759.7	18	— 7.8	80	n.	8	3.6			10 n			inap.	inap.	light snow	J. O. Barnes.
Alpena, Michigan	29.50	749.3	30.21	767.3	— 2	—18.9	65	n.	11	4.9			10 n			0.10	2.5	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.15	638.8	30.27	768.8	19.7	— 6.8	80	se.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.43	696.7	30.47	773.9	5.0	—15.0	76	ne.	12	5.4		0	0			0.01	0.3	clear	F. Newman.
Atlanta, Georgia	28.60	728.0	29.89	759.2	41.8	5.4	95	nw.	10	4.5			10s; fg		nw.	1.84	46.7	cloudy	S. W. Beall.
Atlantic City, New Jersey	29.64	752.8	29.65	753.1	35.0	1.7	100	ne.	15	6.7			10 n			0.03	0.8	light rain	B. A. Blundon.
Augusta, Georgia	29.60	753.4	29.86	758.4	46.5	8.1	93	w.	2	0.9			10 s		w.	1.53	38.9	cloudy	W. J. Evans.
Baltimore, Maryland	29.67	753.6	29.72	754.9	39.8	4.3	73	ne.	4	1.8			10 n			0.27	6.9	light rain	Geo. W. Feiger.
Barnegat City, New Jersey	29.69	754.1	29.71	754.6	36.0	2.2	96	e.	16	7.2			10 n			0.03	0.8	light rain	F. L. Johnson.
Bennett, Fort, Dakota	28.90	734.0	30.64	778.2	6.0	—14.4	66	calm	0	0			10 s			0.02	0.5	cloudy	A. Pritchard.
Benton, Fort, Montana	27.48	698.0	30.46	773.7	18.0	— 7.8	42	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.60	726.4	30.60	777.2	— 9	—22.8	100	calm	0	0			10 s			0.01	0.3	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.78	756.4	29.81	757.2	33.8	1.0	89	ne.	18	8.0			10 n			0.05	1.3	light snow	J. T. Elker.
Boise City, Idaho	27.63	701.8	30.56	776.2	12	—11.1	83	w.	2	0.9		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.73	755.1	29.90	759.4	31.0	— 0.6	84	n.	5	2.2			10 n			inap.	inap.	light rain	O. B. Cole.
Brownsville, Texas	30.12	765.0	30.18	766.6	47.8	8.8	86	w.	6	2.7		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.14	740.1	29.93	760.2	15	— 9.4	91	n.	16	7.2			10 s			0.09	2.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.30	718.8	30.53	775.4	4	—15.6	87	sw.	8	3.6		0	8 s		w.	inap.	inap.	cloudy	A. Schneider.
Cairo, Illinois	29.58	751.3	30.00	762.0	36.8	2.7	91	n.	6	2.7			10 s		n.	0.39	9.9	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.09	764.3	30.29	769.4	42.0	5.6	65	se.	6	2.7		0	5 s		se.	0	0	fair	J. H. Young.
Cape Henry, Virginia	29.69	754.1	29.71	754.6	38.0	3.3	100	w.	10	4.5			10 n			0.72	18.3	light rain	A. K. Alderson
Cape May, New Jersey	29.63	752.6	29.66	753.4	38.0	3.3	89	ne.	16	7.2			10 n			0.31	7.9	light rain	W. E. Smith.
Cape Mendocino, California	29.54	750.3	30.24	768.1	45	7.2	83	calm	0	0			10 s			0	0	cloudy	A. P. Leavitt.
Cedar Keys, Florida	29.92	760.0	29.94	760.5	61.5	10.4	100	s.	15	6.7			10 n		s.	0.40	10.2	light rain	G. W. Davis.
Charleston, S. Carolina	29.74	755.4	29.80	756.9	59.0	15.0	93	sw.	16	7.2			10 s		sw.	0.08	2.0	threatening	J. H. Smith.
Charlotte, N. Carolina	28.92	734.6	29.81	757.2	41.7	5.4	94	n.	2	0.9			10s; fg			1.64	41.7	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.01	736.8	29.87	758.7	45.0	7.2	88	sw.	6	2.7			10 ks		nw.	1.10	27.9	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	30.40	772.1	10.3	—12.1	61	nw.	12	5.4		0	0			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.32	744.7	30.07	763.8	24.3	— 4.3	85	n.	14	6.3			10 n			0.17	4.3	light snow	Wm. Norrington.
Chincoteague, Virginia	29.63	752.6	29.65	753.1	38.0	3.3	100	n.	12	5.4			10n; fg		ne.	1.10	27.9	light rain	C. F. Dickens.
Cincinnati, Ohio	29.17	740.9	29.86	758.4	37.4	3.0	94	n.	6	2.7			10 n		n.	0.47	11.9	light snow	L. Dunne.
Cleveland, Ohio	29.08	738.6	29.86	758.4	26.0	— 3.3	100	n.	14	6.3			10 n		n.	0.20	6.0	light snow	W. Line.
Columbus, Ohio	28.90	735.6	29.86	758.4	30.7	— 0.7	87	nw.	7	3.1			10 s		nw.	0.48	12.2	cloudy	F. T. Williams.
Concho, Fort, Texas	28.42	721.9	30.44	773.2	30.2	— 1.0	88	nw.	11	4.9		0	1 k		n.	0	0	clear	C. E. King.
Custer, Fort, Montana	27.16	689.9	30.54	775.7	— 1	—18.3	72	se.	5	2.2		0	0			0.02	0.5	clear	W. J. Daily.
Davenport, Iowa	29.54	750.3	30.25	768.3	11.5	—11.4	68	n.	20	8.9			10 s		ne.	0.09	2.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.39	644.9	30.37	771.4	25.3	— 3.7	88	n.	8	3.6			10 s		n.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.79	731.3	30.60	777.2	16.5	— 8.6	91	e.	2	0.9		0	fg.			0	0	clear	H. S. Blandford.
Deadwood, Dakota	25.56	649.2	30.51	774.9	16.1	— 8.8	87	sw.	2	0.9		4 k	6 n	nw.	w.	0.19	4.8	light snow	G. Kingsbury.
Delaware Breakwater, Del.	29.64	752.8	29.66	753.4	34.3	1.3	100	ne.	20	8.9			10n; fg		ne.	0.51	13.0	light rain	G. A. Martin.
Denver, Colorado	24.95	633.7	30.47	773.9	5.4	—14.8	70	s	6	2.7		0	0			0.05	1.3	clear	F. M. Neal.
Des Moines, Iowa	29.43	747.5	30.40	772.1	2.8	—16.2	61	n.	12	5.4		0	0			0.29	7.4	clear	F. W. Conrad.
Detroit, Michigan	29.26	743.2	30.02	762.5	19.0	— 7.2	84	nw.	24	10.7			10 n			0.12	3.0	light snow	N. B. Conger.
Dodge City, Kansas	27.80	706.1	30.55	776.0	14.5	— 9.7	91	nw.	12	5.4			10 k		nw.	inap.	inap.	cloudy	J. E. Lanouette.
Dubuque, Iowa	29.53	750.0	30.30	769.6	8.5	—13.1	60	n.	10	4.5		5 cs	3 s	nw.		0.03	0.8	cloudy	J. Harvey Smith
Duluth, Minnesota	29.71	754.6	30.52	775.2	—15	—26.1	100	n.	6	2.7		0	0			0.03	0.8	clear	E. R. Brace.
Eastport, Maine	30.02	762.5	30.09	764.3	13.5	—10.3	80	n.	11	4.9			10n; fg		n.	inap.	inap.	light snow	D. O. Murphy.
Elliott, Fort, Texas	27.58	700.5	30.51	774.9	20.2	— 6.6	84	n.	24	10.7		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.48	672.6	30.36	771.1	30.3	— 0.9	88	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.13	739.9	29.90	759.4	21.1	— 6.1	84	ne.	20	8.9			10 n			0.21	5.3	light snow	C. A. Shaw.
Escanaba, Michigan	29.59	751.6	30.31	769.9	5.5	—14.7	87	n.	17	7.6			10 ks		n.	inap.	inap.	cloudy	L. M. Pindell.
Fort Smith, Arkansas	29.74	755.4	30.24	768.1	29.4	— 1.4	77	n.	12	5.4			10 s		n.	0.13	3.3	cloudy	J. B. Campbell.
Galveston, Texas	30.08	764.0	30.12	765.0	44.9	7.2	83	n.	19	8.5		0	9 ks		n.	0.05	1.3	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.40	746.7	30.11	764.8	10.0	—12.2	74	n.	13	5.8			10 s			0.03	0.8	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.36	644.1	30.26	768.5	29.4	— 1.4	75	ne.	3	1.3		0	0			0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	29.72	754.9	29.73	755.1	52.0	11.1	100	sw.	10	4.5			10 n		sw.	1.49	37.8	light rain	R. M. Crawford.
Helena, Montana	26.21	665.7	30.59	777.0	6	—14.4	76	nw.	1	0.4		0	9 s			0	0	cloudy	S. W. Morrison.
Huron, Dakota	29.14	740 1	30.68	779.3	—11.3	—24.1	73	n.	4	1.8		0	0			inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.04	737.6	29.88	758.9	32.4	0.2	87	ne.	7	3.1			10 n		ne.	0.37	9.4	light snow	C. F. R. Wappenhans.
Indianola, Texas	30.16	766 1	30.19	766.8	46.2	7.9	81	n.	30	13.4		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	29.85	758.4	29.91	759.7	65.0	18.3	92	s.	3	1.3			10 s		s.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.52	749 8	30.22	767.6	18.2	— 7.7	87	n.	10	4.5			10 n		n.	0.12	3.0	light snow	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	70	21.1	90	sw.	4	1.8		0	0			0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	29.70	754.4	29.72	754.9	44.2	6.8	100	nw.	16	7.2			10 n			1.85	47.0	heavy rain	Wesley Blake.
Knoxville, Tennessee	28.79	731.3	29.87	758.7	37.8	3.2	100	sw.	5	2.2			10 s			0.98	24.9	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.59	751.6	30.43	772.9	— 3	—19.4	65	n.	12	5.4		0	5 s			0.02	0.5	fair	S. C. Emery.
Leavenworth, Kansas	29.44	747.8	30.40	772.1	10	—12.2	58	n.	20	8.9		4 cs	0	nw.		0.01	0.3	fair	T. S. Outram.
Lewiston, Idaho	29.83	757.7	30.70	779.8	19.0	— 7.2	70	ne.	1	0.4		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.73	755.1	30.06	763.5	41.0	5.0	92	nw.	3	1.3			10 s			0.15	3.8	cloudy	W. U. Simons.
Los Angeles, California	29.86	758.4	30.26	768.6	44.2	6.8	83	n	4	1.8		5 cs	0	se.		0	0	fair	T. S. Collins.
Louisville, Kentucky	29.28	743.7	29.87	758.7	38.8	3.8	84	nw.	4	1.8			10 s			0.22	5.6	cloudy	L. M Dey.
Lynchburg, Virginia	29.00	736 6	29.72	754.9	36.5	2.5	89	sw.	2	0.9			10 s		sw.	0.39	9.9	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.60	751.8	30.30	769.6	—13.0	—25.0	70	n.	10	4.5		0	5 s			0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	29.76	755.9	29.77	756.1	49.7	9.8	100	sw.	12	5.4			10 n		sw.	0.44	11.2	light rain	William Daly.
Maginnis, Fort, Montana	25.71	653.0	30.48	774.2	23.7	— 4.6	30	nw.	22	9.8		0	0			0.02	0.5	clear	F. Burke.
Marquette, Michigan	29.57	751.1	30.35	770.9	7.0	—13.9	81	n.	18	8.0			10 s		n.	0.17	4.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.65	753.1	30.01	762.2	38	3.3	100	w.	1	0.4			10 n			0.29	7.4	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.37	746.0	30.17	766.3	7.4	—13.7	76	nw.	20	8.9			10 s		nw.	0.11	2.8	cloudy	S. W. Rhode.
Mobile, Alabama	29.95	760.7	29.99	761.7	49	9.4	74	n.	9	4.0		0	4 s		n.	0.64	16.3	fair	H. U. Jones.
Montgomery, Alabama	29.70	754.4	29.94	760.5	49	9.4	93	w.	6	2.7			10ks;s		w.	1.08	27.4	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.48	748.8	30.59	777.0	—32	—35.6	100	w.	5	2.2		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.42	594.9	30.04	763.0	24.3	— 4.3	96	sw.	5	2.2			fg.		sw.	0.14	3.6	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.30	744.2	29.91	759.7	39.5	4.2	89	nw	10	4.5			10 n		nw.	0.48	12.2	light rain	L. N. Jesunofsky
New Haven, Connecticut	29.60	754 1	29 81	757.2	30.7	— 0.7	100	ne.	7	3.1			10 n			0.09	2.3	heavy snow	J. H. Sherman.
New London, Connecticut	29.82	757.4	29.86	758.4	31.0	— 0.6	100	ne.	3	1.3			10 n			0.03	0.8	light snow	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.06	763.5	48.0	8.9	74	n.	16	7.2			10 s		n.	0.82	20.8	cloudy	M. Herman.
New York, New York	29.60	751.8	29.79	756.7	31.5	— 0.3	100	ne.	15	6.7			10 n			0.07	1.8	light snow	H. J. Peurod.
Norfolk, Virginia	29.65	753.1	29.68	753.9	41.3	5.2	100	nw.	3	1.3			10s;fg			1.41	35.8	cloudy	Wm. Davis.
North Platte, Nebraska	27.44	697.0	30.56	776.2	10.2	—12.1	76	nw.	9	4.0			10 s			inap.	inap.	cloudy	J. J. Mc Lean.
Olympia, Washington Ter	30.37	771.4	30.41	772.4	36.0	2.2	94	calm	0	0			fg.			0	0	dense fog	J. Dascomb
Omaha, Nebraska	29.27	743.4	30.54	775.7	— 3.8	—19.9	65	n.	12	5.4		0	0			0.17	4.3	clear	A. Pollak
Oswego, New York	29.58	751.3	29.93	760.2	11.4	—11.4	93	ne.	25	11.2			10 n			0.03	0.8	light snow	J. G. Linsley.
Palestine, Texas	29.66	753.4	30.24	768.1	39.0	3.9	82	nw.	16	7.2			10 s		nw.	0.05	1.3	cloudy	P. T. Jenkins.
Pensacola, Florida	29.93	760.2	29.96	761.0	55.2	12.9	79	nw.	11	4.9			10 s		nw.	0.12	3.0	cloudy	M. McGauran.
Philadelphia, Pa	29.62	752.3	29.74	755.4	35.5	1.9	100	ne.	16	7.2			10 n		ne.	0.14	3.6	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.52	445.0	30.22	767.6	—14.0	—25.6	66	nw.	34	15.2		0	0			inap.	inap.	clear	H. Hall.
Pittsburg, Pennsylvania	28.92	734.6	29.77	756.1	34.5	1.4	89	nw.	2	0.9			10 n		nw.	0.17	4.3	light snow	O. D. Stewart.
Poplar River, Montana																			G. A. Garden.
Port Huron, Michigan	29.23	742.4	29.96	761.0	19.0	— 7.2	87	ne.	24	10.7			10 s		n.	0.03	0.8	cloudy	M. H. Perry
Portland, Maine	29.94	760.5	29.99	761.7	21.0	— 6.1	84	n.	18	8.0			10 n		n	0.02	0.5	light snow	W. W. Eichelberger.
Portland, Oregon	30.31	769.9	30.38	771.6	37.2	2.9	51	e.	5	2.2		0	0			0	0	clear	M. L. Hearne.
Prescott, Arizona	24.91	632.7	30.29	769.4	25.0	— 3.9	82	sw.	2	0.9		2 c	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.86	758.4	29.89	759.2	33.5	0.8	94	ne.	4	1.8			10 n			inap.	inap.	light snow	C. N. Kitchel.
Red Bluff, California	29.96	761.0	30.32	770.1	33.5	0.8	94	n.	3	1.3		2 c	0	s.		0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.06	763.5	30.31	769.9	41.5	5.3	90	n.	4	1.8		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.22	742.2	29.93	760.2	15	— 9.4	91	ne.	18	8.0			10 n			0.11	2.8	light snow	E. W. McGann.
Roseburg, Oregon	29.78	756.4	30.35	770.9	30.8	— 0.7	90	calm	0	0			fg.			0	0	dense fog	J. J. Nanry.
Sacramento, California	30.23	767.8	30.31	769.9	40.0	4.4	89	se.	1	0.4		5 c	0			0	0	fair	J. A. Barwick
St. Louis, Missouri	29.44	747.8	30.10	764.5	26.2	— 3.2	94	nw.	23	10.3			10 n			0 42	10.7	heavy snow	J. H. Weber.
St. Michael, Fort, Alaska	29.45	748.0	29.49	749.0	6	—14.4	100	n.			1		10 s			0.06	1.5	cloudy	Fred. H. Clarke
St. Paul, Minnesota	29.57	751.1	30.51	774.9	— 7.5	—21.9	100	nw.	9	4.0		0	0			0	0	clear	P. F Lyons.
St. Vincent, Minnesota	29.53	750.0	30.51	774.9	—29	—33.9	100	s.	4	1.8		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	26.00	660.4	30.57	776.5	18.5	— 7.5	44	e.	1	0.4		0	0			0	0	clear	J. Craig.
San Diego, California	30.14	765.5	30.21	767.3	45.6	7.6	81	ne.	3	1.3		6 cs	0	w.		0	0	fair	F. R. Day.
Sandusky, Ohio	29.19	741.4	29.91	759 7	24	— 4.4	88	n.	28	12.5			10 n		n.	0.17	4.3	light snow	B. F. Hough.
Sandy Hook, New Jersey	29.74	755.4	29.77	756.1	35.3	1.8	89	e.	15	6.7			10 n		e.	0.08	2.0	light rain	V. P. Chappel.
Sanford, Florida	29.91	759.7	29.96	761.0	63.0	17.2	92	sw.	6	2.7		5 c	0			0	0	fair	J. B. Marbury
San Francisco, California	30.22	767.6	30.29	769.4	49.8	8.2	93	calm	0	0		2 c	fg.	sw.	n.	0	0	dense fog	N. Gorom.
Savannah, Georgia	29.71	754.6	29.81	757.2	63.5	17.5	90	sw.	7	3.1		0	9 ks		sw.	0.03	0.8	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.63	676.4	30.49	774.4	17	— 8.3	70	sw.	14	6.3		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.88	758.9	30.14	765.5	40.5	4.7	80	nw.	10	4.5			10 s		nw.	0.07	1.8	cloudy	E. N. Meekins.
Sitka, Alaska	30.18	766.6	30.24	768.1	38.6	3.7	72	e.	10	4.5		0	4 ks		e.	0	0	fair	F. W. Fickett.
Smithville North Carolina	29.74	755.4	29.78	756.4	54.0	12.2	100	w.	6	2.7			10 n		w.	0.41	10.4	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.33	719.6	30.47	773.9	10	—12.2	80	n.	1	0.4		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.39	746.5	30.12	765.0	18.8	— 7.3	86	n.	18	8.0			10 n			0.62	15.7	light snow	T. B. Jennings.
Stockton, Fort, Texas	27.31	693.7	30.45	773.4	31.0	— 0.6	88	n.	8	3.6			10 s			0	0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	30.26	768.6			49.3	4.6	78	e.	26	11.6		0	0			0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.46	697.5	30.29	769.4	27	— 2.8	77	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.20	741.7	29.94	760.5	20.5	— 6.4	85	n.	8	3.6			10 s			0.30	7.6	cloudy	A. Buell.
Unalashka, Alaska	29.21	741.9	29.23	742.4	34	1.1	89	se.	12	5.4			10 n			0.24	6.1	light rain	Samuel Applegate
Vicksburg, Mississippi	29.80	756.9	30.07	763.8	44.0	6.7	83	nw.	7	3.1			10 s		w.	0.29	7.4	cloudy	C. Dill.
Washington, D. C.	29.62	752.3	29.74	755.4	35.5	1.9	94	n.	2	0.9			10n;fg		n.	0.29	7.4	light rain	T. B. Harrison.
West Las Animas, Colorado	26.33	668.8	30.46	773.7	10	—12.2	96	nw.	4	1.8			4 k			inap.	inap.	fair	F. H. Brandenburg
Wilmington, N Carolina	29.72	754.9	29.78	756.4	53.0	11 7	93	sw.	4	1.8			10 n			0.49	12.4	light rain	L. H. Albrecht.
Yankton, Dakota	29.19	741.4	30.61	777.5	—10.8	—23.8	77	n.	14	6.3		0	0			0.01	0.3	clear	E. H. Thompson.
Yuma, Arizona	30.07	763.8	30.22	767.6	43.6	6.4	55	se.	3	1.3		7 c	0	s.		0	0	fair	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.92	760.0	29.94	760.5	16.5	— 8.6	80	e	1	0.4		0	4 k			0	0	fair	George Cheruick.
Bluefields, Nicaragua, C. A.					77	25.0		nw.			2	0	8 k		ne.	0.74	18.8	cloudy	W. H. Jackson.
Bogota, U. S. C.	21.99	558.5			50.9	10.5	86	ne.	2	1		2 ck	6 k	w.	sw.	0	0		Joaquim Gomez.
Chimo, Fort, Ungava	30.11	764.8	30.27	768.8	—36	—37.8	100	s.	15	6.7		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.06	763.5	75.2	24.0	88	ese.	3	1.3			10 s		e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	ne.			3	5 ck	7 ps	e.	e.	0	0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.95	760.7	76	24.4	89	s.			1		8 ks		n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75	23.9	90	ne.			1		10 ks		ne.	0	0	cloudy	Earl Flint.
York Factory, B. A.	29.99	761.7	30.06	763.5	—21.0	—29.4		sw.	18	8.0		5 k	5 s	sw.	sw.	0.01	0.3	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.89	759.2	29.90	759.5	79.2	26.2	82	n.	11.9	5.3		0	5 k		n.			hazy	P. Fasiani.
Naos, Bay of Panama	29.87	758.6	29.93	760.3	75.0	24.2	90	nw.			3	0	1 k		n.			clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
S. S. Alleghany, Chesapeake Bay †	29.69	754.1	34	1.1		n.			2		10		n.	12 h'r	12 h'r			
Schr. Anna A. Holton, N. 36° 10', W. 70° 35'*†	29.90	759.4	60	15.6		s.			7		10		s.	10 h'r	10 h'r	r'gh	s.	cloudy.
S.S. Arizona, N. 43° 23', W. 58° 10'	30.10	764.5	37	2.8		w.			2		10		w.	o	o	long	w.	overcast.
S. S. British Prince, N. 51° 43' W. 24° 28' †	29.79	756.7	42	5.6		ene.			6		10		ne.	6 h'r	6 h'r	h'vy	w.	raining.
S. S. Belgenland, N. 47° 08', W. 44° 49'			35	1.7	90	wsw.			6				w.	snow	snow	h'vy	wnw.	clearing
S. S. City of Augusta, New York, N. Y †	29.80	756.9				wnw.			4		10		ese.	o	o			smoky.
S. S. Canada, (Br.) N. 48° 00', W. 26° 05' †	29.66	753.4	56	13.3		sw.			9		6		sw.	5 h'r	5 h'r	h'vy	var.	fair.
S. S. Canada, (Fr.) N. 44° 22', W. 55° 14'	30.10	764.4	37.4	3		calm			0			n.	nw.			sm'h	n.	covered
Bk. Diamant, N. 39° 46', W. 68° 04'	29.96	761.0	45.1	7.3	91	calm			0		10					1	w.	light rain.
S. S. Dorian, N 34° 12', W. 62° 14'	30.27	768.8	63	17.2		sw.			4		6		wsw.	o	o	mod.	w.	fair.
S. S. Denmark, N. 46° 50', W. 44° 15' †	29.97	761.2	39	3.9	91	wsw.			6		9		wsw.	rain	rain	r'gh	wsw.	cloudy.
S. S. Daniel Steinmann, N. 49° 09', W. 41° 32'†	29.67	753.6	45	7.2		sw.			9		10		calm	5 h'r	5 h'r	h'vy	w.	heavy rain.
S. S. Gen. Werder, N. 49° 55' W. 9° 17'	30.54	775.7				s.			5–6		10		wsw.	o	o	long	w.	cloudy.
Bg. Gipsy Queen, N. 35° 30' W. 74° 50'						w.			8		10		w.	h'vy	h'vy	h'vy		stormy.
S. S. Iowa, N. 45° 03', W. 47° 46' †	30.04	763.0	38	3 3		sw.			2		7		sw.	1 h'r	1 h'r	sm'h	sw	hazy.
S. S. Landaff City, N. 48° 32', W. 37° 02'*†	29.80	756.9	42	5.6		s.			7		10		sw.	o	o	h'vy	sw.	raining.
S. S. Lessing, N. 40° 37' W. 65° 00'	29.86	758.4	54	12.2		wsw.			5		10		wnw.	2 h'r	2 h'r	r'gh	w.	cloudy.
S. S. Labrador, N 45° 49', W. 50° 22' *†	30.00	762.0	37.4	3		wsw.			4		9		sw.				wsw.	raining.
S. S. Main, N. 42° 47', W. 61° 01'	30.05	763.3	41.0	5		ene.			1–2		10		ne.	3 h'r	3 h'r	long	wnw.	cloudy.
Schr. Maggie Abbott, N. 35° 00', W. 73° 50'						w.			7				w.	h'vy	h'vy	h'vy	s.	cloudy.
Bk. Matthias, N. 34° 36', W. 67° 00' *†	29.91	759.7	58.0	14.4		ssw.			6		10		s.	o	o	3	sw.	
S. S. Neckar, N. 48° 39', W. 26° 39'	29.74	755.4	49.0	9.4	93	w.			2		7		nw.	rain	rain	r'gh	nw.	fair.
S. S. Nederland, N. 38° 44', W. 75° 00'			38	3.3	91	ne.			3		10		n.	10 h'r	10 h'r	sm'h		dense mist.
S. S. Nurnberg, N. 46° 04', W. 45° 17'	30.05	763.3	40.1	4.5		w			5		6		w.	5 h'r	5 h'r	long	w.	fair.
S. S. Oregon, (Br.) N. 45° 21', W. 55° 22'	30.00	762.0	31	— 0.6		nw.			1		10		w.			med.	w.	cloudy.
S. S. Pavonia, Mersey River, Eng	30.51	774.9	50	10.0	86	ssw.			2		8		s.	o	o	sm'h		cloudy.
S. S. Picqua, N. 38° 15', W. 57° 20' *†	30.15	765.8	54	12.2	67	sw.			6				se.	light	light	light	nw.	cloudy.
S. S. Rhein, N. 48° 53', W. 32° 27'	29.89	759.2				n.			6		2			6 h'r	6 h'r	mod.	n.	clear.
S. S. Romano, off Sandy Hook, N. J			36	2.2		ese.			2		10			snow	snow	sm'h		snowy.
Bk. Rosina, N. 33° 18', W. 71° 25'	30.04	763.0	70	21.1		sw.			7		8		w.	o	o	h'vy	sw.	cloudy.
S. S. State of Georgia, N. 47° —' W. 43° 40'			41	5.0		w.			7–8		4		w.	o	o	sharp	w.	clearing.
S. S. Salier, N. 42° 48', W. 60° 30'*	30.10	764.5				ene.			3		8		n	o	o	sm'h	ene.	cloudy.
Bgt. Sunlight, N. 19° 00', W. 60° 40'	30.09	764.3				ne.			4		4		ne.	½ h'r	½ h'r	sm'h		fair.
S. S. Thingvalla, N. 55° 50', W. 30° 16'			34.7	1.5		sw.			4		8		sw.	8 h'r	8 h'r	h'vy	sw.	cloudy.
S. S. Valencia, La Guayra, Venezuela †	30.00	762.0	74	23.3	72	calm			0		3			o	o	light	nne.	fair.
S. S. Westphalia, N. 44° 57', W. 51° 00'			35	1.7	100	sw.			3		9		sw.	o	o	cross	w.	cloudy.
S. S. Zaandam, N. 49° 06', W. 34° 24'	29.99	761 7	52.7	11.5	75	w.			6		7		wnw.	8 h'r	8 h'r	h'vy	w.	fair.
S. S. Andes, Jacmel, Hayti, W I *†	30.10	764.5	82	27.8		e.			3		1			o	o	mod.	e.	squally.
Schr. Annie R Lewis, Cienfuegos, Cuba, W. I†	30.13	765.3	67	19.4		ne.			1		5		se.	o	o			fair.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.05	763.3				wsw.			2		3		wsw.	o	o	sm'h		misty.
Bk. Aureola, N. 5° 16', W. 46° 50'			87	30.6		nne.			6		10		nne.	8 h'r	8 h'r	h'vy	cross	squally.
U. S. S. Alliance, Santiago de Cuba, Cuba, W. I	30.06	763.5	73	22.8	85	wnw.			1		2			o	o	sm'h		clear
S. S. Bothnia, N. 44° 25', W. 47° 11'	30.09	764.3	52	11.1	93	wsw.			5		10		w.	2 h'r	2 h'r	mod.	w.	overcast.
S. S. Chalmette, N. 24° 20', W. 81° 25'†	30.06	763.5	74	23.3		e.			4		1		se.	o	o	sm'h		clear
S. S. Dominion, N. 50° 27' W. 33° 40' *†	29.91	759.7	44	6.7		ssw.			5		10		s.			mod.	con.	cloudy.
Schr. Ellen Crusoe, N. 27° 28', W. 71° 46' *†	30.20	767.1				s							s.	o	c	cross		fine.
S. S. Germanic, N. 51° 10', W. 19° 11' *†	29.90	759.4	54	12.2	93	se.			6		10		se.	7 h'r	7 h'r	r'gh	se.	raining.
S. S. Grecian, Havre Roads, France	30.59	777.0	40	4.4	91	se.			2		9		se.	o	o	sm'h		foggy.
Bg. John Welsh, jr., N. 28° 15', W. 89° 10'						nne.			5		10		ne.			chop	w.	cloudy.
S. S. Lone Star, N. 37° 25', W. 74° 50'*†	29.60	751.8				w.			2		10			20 h'r	20 h'r	r'gh	var.	misty.
S. S. Muriel, Barbadoes, W. I	30.09	764.3	80	26.7		e.			3		0			o	o			clear.
S. S. Ontario, N. 51° 22', W. 14° 49'	30.19	766.8	52.5	11.4		sse.			6		10			1 h'r	1 h'r	r'gh	n.	hazy.
S. S. Orinoco, N. 37° 25', W. 70° 30'			60	15.6		ssw.			7		10		ssw.	2 h'r	2 h'r	h'vy	ssw.	rainy.
Ek. Saga, N. 25° 05', W. 61° 43' *†	30.18	766.5	75	23.9		var.			0–2		1		ese.	o	o	long	n.	clear.
S. Storm King, N. 42° 38', W. 30° 12'*†	30.33	770.4				nw.			6		5		nw.	8 h'r	8 h'r	high	w.	fair.
S. S. Salerno, Grimsby Roads, Eng †	30.52	775.2	45	7.2		w.			3		5		sw.	o	o			hazy.
S. S. St. Laurent, Havre, France	30.62	777.7	39.2	4		ene.			1					o	o			misty.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.16	766.1	74	23.3	81	calm			0		2		calm	o	o			clear.
U. S. S. Tennessee, N. 11° 22', W. 77° 49'	29.94	760.5	78	25.6	78	ne.	28	12.5			8		ne.	o	o	mod.	ene.	cloudy.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I	30.04	763 0	72	22.2	85	ne.			1		0							clear.
S. S. Venetian, N 43° 51', W 53° 47'*	30.02	762.5	44	6.7		s.			1–2		10			o	o	mod.	wsw.	dull.
S. S. Westernland, Antwerp, Belgium	30.65	778.5	47	8.3		wsw.			2		10		wsw.	o	o			overcast.
S. S. City of Berlin, N. 51° 23', W. 14° 20'	30.24	768.1	50	10.0		s.			6		10							drizzling.
S. Orealia, N. 14° 15', W. 26° 20'*	30.27	768.8				ene.			6		0			o	o	light	e.	clear.
U. S. Navy Yard, Portsmouth, N. H.*	29.99	761.7	21	— 6.1	85	ne.	16	7.2			10		ne.					snowing.
U. S. S. Kearsarge, Spezia, Italy	30.44	773.2	56	13.3	69	ne.			3		0							clear.
U. S. S. Lancaster, Leghorn, Italy			46	7.8	100	ene.			1–2		0			o	o	sm'h		clear.
U. S. S New Hampshire, Newport, R. I	29.86	758.4	32	0.0	100	ne.			1		10					sm'h		snowing.
U. S. S. Quinnebaug, Leghorn, Italy	30.37	771.4	55	12.8	62	ene.			1		0					sm'h		clear.
U. S. S. Shenandoah, N. 20° 22', W. 24° 07'*	30.13	765.3	70	21.1	75	ene.			4		8					sm'h		fair.
U. S. S. Trenton, Marseille, France	30.40	772.1	53	11.7	86	w.			1		0							clear.
H. M. S. Alexandra, Malta, Mediterranean	30.32	770.1	60	15.6	65	ene.			1		2		ene.					d. clouds.
H. M. S. Alecto, N. 4° 41', W. 2° 09'	29.87	758.7	80	26.7		nw.			2		2		wsw.			2	ssw.	d. clouds.
H. M. S. Comus, N. 16° 55', W. 25° 00'	30.11	764.8	71	21.7	71	nne.			5									d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.13	765 3	64	17.8	67	ssw.			3		5		ssw.					d. clouds.
H. M. S. Minotaur, Palma, Majorca, Spain	30.51	774.9	56	13.3	78	calm			0		7		wnw.					d. clouds.
H. P. M. S. Douro, N. 6° 19', E. 2° 00'	29.88	758.9	86.9	30.5	79	s.			3		3					2	sw.	blue sky.
S. S. British Crown, N. 40° 52', W. 63° 50'			48	8.9		ene.			2		10?			1 h'r	1 h'r	sli't	w.	clear?
S. S. Ohio, (Am.) N. 42° 39', W. 62° 45'			37	2.8	100	sw.			3		10		ssw.	o	o	mod.	wsw.	overcast.
S. S. Pennsylvania, Philadelphia, Pa †	29.76	755.9	34	1.1	?	ne.			4		10			o	o			clear.?
S. S. Polynesian, N. 46° 48', W. 52° 23'	30.00	762.0	31	— 0.6		wsw.			3		6		w.	4 h'r	4 h'r	sm'h	sw.	cloudy.
S. S. Prussian, N. 55° 15', W. 14° 30'	30.23	767.8	49	9.4		s.			3		5?		s.	o	o	mod.	sw.	clear.?
S. S. Scandinavian, N. 44° 31', W. 52° 59'	30.04	763.0	39	3.9		sw.			3		10		wsw.	3 h'r	3 h'r	mod.	wsw.	
S. S. Scythia, N. 42° 27', W. 53° 13'	30.14	765.5	60?	15.6?	?	s.			1		8			6 h'r	6 h'r	mod.	wsw.	hazy
S. S. Bohemia, Hamburg, Germany						w.			1–3		9			o	o			cloudy.
S. S. Frisia, N. 42° 07', W 62° 13'	30.03	762.7	45	7.2		e.			2		10		w.	o	o	mod	w.	covered.
S. S. Archimedes, (Br.) N. 45° 36' W. 34° 05'	30.11	761.8				wnw			5		4		nw.	8 h'r	8 h'r	mod.	wnw.	fair.
S. S. Hevelius, Liverpool, Eng			41	5.0		nw.			5		4?		nw.	o	o			cloudy.?
S. S. Teniers, N. 18° 13', W. 24° 26'	30.13	765.3	71	21.7	84	nne.			5		5 k			o	o	long	ne.	d. clouds.
S. S. Archimede, (It.) Genoa, Italy	30.49	774 4	64?	17.8?		ne.			2		2		ne.	o	o			clear.
S. S. Texas, N. 29° 41, W. 54° 18'*†	30.21	767.3	67	19.4	84	ene.			2		0			o	o	sm'h		clear.
S. S. Erin, London, Eng	30.59	777.0	50	10.0		ssw.			5		3		ssw.	o	o			fine.
S. S. Strassburg, N. 35° 58', W. 15° 19'			62.5	16.9	59	ne,			2		10		ne.	o	o	1	ne.	cloudy.
S. S. Rhynland, Sandy Hook, N. J			32	0.0	79	e.			2		10		ne.	snow	snow	sm'h		cloudy.
S. S. Switzerland, N. 49° 59' W. 29° 31' *†	29.86	758 4				nnw.			2		8		wnw.	5 h'r	5 h'r	long	n.	cloudy.
S. S. Waesland, N. 40° 30', W. 70° 00'	29.83	757.7	41	5.0		ene.			6		10		ene.	4 h'r	4 h'r	mod.	w.	rainy
S. S. P. Caland, N. 43° 39', W. 56° 05'			41.0	5.0	84	ene.			1		8					4	wnw.	fair.
S. S. W. A. Scholten, N. 42° 16', W. 63° 03'			36.9	2.7	96	nne.			5		7		nne.	9 h'r	9 h'r	4	ne.	squally.
S. S. State of Nevada, N. 54° 48', W. 19° 07'*†	29.83	757.7	48	8.9		s.			6		10		sw.	1 h'r	1 h'r	short	con	cloudy.
S. S. Saxon, N. 40° 15', W. 73° 25'†	29.70	754.4	40	4.4		ene.			2		10							snowy.
S. S. Celtic, Liverpool, Eng	30.51	774.9	50	10.0		wsw.			5		9		sw.	o	o			cloudy.
S. S. Marengo, N. 49° 40', W. 11° 40'			52	11.1		sse.			5		5?		sse.	2 h'r	2 h'r	sli't	sse.	cloudy?
Bg. Alcira, N. 25° 36', W. 62° 12'	30.17	766.3	72	22.2		se.			3		4		se.	o	o	mod.	naw	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.48	774.2	62.5	16.9	72	calm			0		1			o	o			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
									Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity Miles p. hr.	Velocity Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
Bgt. Achsah, Clementsport, N.S.†	30.03	762.7	20	— 6.7		nw.			4		10		nw.	2 h'r	2 h'r			snowing.
Bk. Bayonnaise, N. 32° 04′, W. 56° 19′†			65.3	18.5		e.			3		5?		ene.			sm'h	e.	clear.?
Bk. Chas. Stewart, N. 17° 30′, W. 34° 10′			77	25.0		ene.			6		2		e.	0	0	mod	nne.	fair.
Schr. C. R. Flint, N. 38° 04′, W. 69° 30′			56	13.3		sw.			4		10		sw.	6 h'r	6 h'r	long	sw.	raining.
Schr. Clotilde, Key West, Fla†	30.06	763.5	74	23.3		sw.			1		0			0	0			clear.
Bk. Celestina, N. 33° 07′, W. 14° 07′ *†	30.56	776.2				ne.			3		3		ne.	0	0	light	ne.	clear.
Bk. C. S. Bushnell, N. 37° 52′, E. 1° 47′	30.44	773.2				calm			0		8		e.	0	0			
S. Dora, N. 63° 53′, W. 5° 06′ *†	29.73	755.1	41.5	5.3		w.			4-7		5		wnw.	12 h'r	12 h'r	mod.	w.	squally
S. E. J. Spicer, N. 52° 00′, W. 5° 33′	30.40	773.7	50	10.0	93	ssw.			5		10		ssw	0	0	mod.	ssw.	cloudy.
S. E. B. Sutton, N. 41° 00′, W. 32° 00′ *†	30.35	770.9	60	15.6	88	sw.			5		4		nw.	2 h'r	2 h'r	h'vy	w.	fair.
Bk. Fred W. Carlon, N. 39° 45′, W. 73° 13′						ene.			5		10		ene.	4 h'r	4 h'r	r'gh	var.	threatening.
S. Hedwig, N. 36° 08′, W. 2° 44′	30.51	775.0	57.7	14.3	86	e.			2		8		e.	0	0	1	e.	fine.
Bk. Heinrich & Tonio, N. 48° 50′, W. 14° 00′			55	12.8	91	s.			4		9		var.	5 h'r	5 h'r	long	w.	cloudy.
Bk. Hattie G. McFarland, Ship Island, Miss.						nnw.			5		8		n.	8 h'r	8 h'r			showery.
S. Henry, N. 41° 00′, W. 25° 25′ *	30.26	768.6	60.8	16.0		ssw.			6		6 k					4	ssw.	squally.
Bk. Idaho, N. 26° 07′, W. 71° 17′ *†	30.22	767.6				s.			4		2		s.	0	0	mod.	nnw.	clear.
Bg. John Wesley, Havana, Cuba, W.I.						e.			1		0			0	0			clear.
Schr. John L. Thomas, Hobbles Cays, C. A†	29.98	761.5	77	25.0	86	ne.			2		1		ene.	0	0	light	ene.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadaloupe†	30.10	764.5				ene.			1		2		ene.	0	0	sm'h		fine.
S. S. Madrid, N. 50° 28′, W. 0° 54′†	30.69	779.5	49	9.4	78	calm			0		0			0	0	sm'h		clear.
S. Parker M. Whitmore, N. 1° 45′, W. 28° 00′ *†	29.93	760.2	83	28.3		calm			0		4		e.	0	0	sm'h		fair.
S. S. P. de Satrastegui, N. 34° 41′, W. 70° 55′	29.88	758.9				s.			6		10			1 h'r	1 h'r	r'gh	s.	hazy.
Bg. Rising Sun, N. 27° 10′, W. 60° 50′†	30.14	765.5	72	22.2		s.			2		5		s.	light	light	long	nw.	squally.
Bk. Rosalie, N. 36° 27′, W. 34° 52′ *†	30.27	768.8				w.			2		8		wnw.	½ h'r	½ h'r	light	nw.	cloudy.
S. Salisbury, N. 27° 05′, W. 26° 03′	30.33	770.4	67.3	19.6	81	ese.			3		6 kn		var.	2 h'r	2 h'r	mod.	var.	fair
S. S. City of Alexandria, N. 34° 30′, W. 75° 08′ *†	29.70	754.4	62	16.7		sw.			9							h'vy	sw.	raining.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.92	760.0	72	22.2	95	ssw.			1		10		calm			sm'h		cloudy.
U. S. S. Pinta, S. 15° 57′, W. 37° 55′	30.09	764.3	80	26.7	78	ese.			1		2		se.			long		clear.
H. M. S. Amethyst, Maldonado Bay, Uruguay	29.79	756.7	72.5	22.5	90	w.			3		10							overcast.
H. M. S. Boadicea, St. Helena, Africa	29.98	761.5	77	25.0		ese.			1-3		7	ese.						squally.
H. M. S. Opal, S. 21° 34′, E. 13° 43′	29.94	760.5	65	18.3	80	sse.			2		6	sse.				3	sse.	d. clouds.
H. M. S. Tyne, S. 1° 26′, W. 17° 20′	29.94	760.5	82	27.8	78	se.			3		2					sm'h		blue sky.
H. P. M. S. Tejo, Zaire, Guinea	30.16	766.0	86.9	30.5	93	e			1		4		e.	2 h'r	2 h'r			d. clouds.
S. S. Sirius, Santos, Brazil	29.96	761.0				s.			3		1		se.	0	0			clear.
Bg. Daphne, S. 0° 55′ W. 31° 59 *†	29.90	759.4	80	26.7	82	sse.			1		3		var.	0	0	sm'h	s.	squally.
Bk. Horace Scudder, S. 8° 55′, E. 13° 00′ *†	30.02	762.5	82	27.8		wnw.			2		2		w.	0	0	light		clear.
Bkt. Levanter, S. 17° 24′, W. 37° 23′ *	30.09	764.3	84	28.9		ese.			4		4		ese.	0	0	mod	e.	clear.
S. St. David, S. 42° 22′, W. 32° 19′ *†	29.54	750.3	58	14.4	82	nw.			7		9		nw.	4 h'r	4 h'r	h'vy	nw.	stormy.
S. David Stewart, Pernambuco, Brazil†	29.85	758.2	85	29.4		se.			4		5		se.	0	0			
Bk. Godeffroy, S. 47° 48′, W. 43° 40′	29.19	741.4	52.0	11.1	86	w.			5-6		4		wnw.	5 h'r	5 h'r	long	var.	fair.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.90	759.4	34.5	1.4	62	n.			5		10			0	0			threatening.
U. S. S. Adams, Sitka, Alaska†	30.23	767.8	32	0.0	90	calm			0		0							clear.
U. S. S. Alert, N. 15° 30′, E. 177° 48′	29.91	759.7	77	25.0	91	ne.			3		5		ne.			mod.	ne.	fair.
U. S. S. Essex, Canton, China	30.21	767.3	68	20.0	79	calm			0		2							clear.
U. S. S. Juniata, Shanghai, China	30.54	775.7	39	3.9	82	n.			1		0			0	0			clear.
U. S. S. Monocacy, Shanghai, China	30.53	775.4	39	3.9	64	nne.			2		0							clear.
U. S. S. Richmond, Shanghai, China	30.54	775.7	42	5.6	83	nne.			2		2		nne.	0	0			clear.
H. M. S. Audacious, Hong Kong, China	30.19	766.8	62	10.7	88	calm			0		0							blue sky.
H. M. S. Cleopatra, off Amoy, China	30.28	769.1	62	16.7	77	calm			0		0					small		blue sky.
H. M. S. Champion, Shanghai, China	30.56	776.2	43	6.1		calm			0		0							blue sky.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.87	758.7	83.9	28.8	71	ne.			1		3							misty.
H. P. M. S. Tamega, Macao China	30.24	768.2	64.4	18.0	80	n.			2		0			0	0			blue sky.
S. S. Newburn, Guaymas, Mexico*†	30.22	767.6	60	15.6	71	nw.			2		0			0	0	mod.		clear.
S. S. Columbia, Columbia River, Oregon*†	30.31	769.9	34	1.1	90	e.			4		0							clear.
S. S. Oregon, Portland, Oregon †	30.36	771.1	38	3.3	63	calm			0		1		ene.					clear.
S. S. Willamette, N. 46° 15′, W. 124° 22′†	30.32	770.1	41	5.0	91	ese.			4		3		ssw.	0	0	mod.	w.	hazy.
S. S. Alameda, N. 29° 22′ W. 140° 54′†	30.14	765.5	65	18.3	68	nw.			3		5		wsw.	5 h'r	5 h'r	light	wnw.	fair.
S. S. Ancon, San Pedro, Cal.†	30.18	766.0	48	8.9	100	n.			2		0			0	0			clear.
S. S. City of Chester, Eureka, Cal. †	30.29	769.4	41	5.0	100	calm			0		10							
S. S. Orizaba, N. 37° 12′, W. (119°?) 40′†	30.25	768.3	48	8.9	78	n.			3		0			0	0	mod.	sw.	clear.
S. S. Queen of the Pacific, Tacoma, Wash. Terr†	30.46	773.7	36	2.2	90	se.			1		10			0	0			foggy.
S. S. State of California, San Francisco, Cal.†	30.31	769.9	44	6.7	92	ne.			2		0			0	0			clear.
S. S. City of Pekin, N. 46° 00′, W. 162° 05′			44	6.7	52	sw.			4		10		sw.			h'vy	sw.	cloudy.
S. S. City of Rio de Janeiro, N. 30° 40′, W. 140° 35′†	30.22	767.6	65	18.3		wsw.			3		4		w.			large	wsw.	cloudy.
S. S. City of Sydney, N. 12° 26′, W. 161° 11′ *†	29.90	759.4	70	24.4	86	ne.			4		7 ck		ne.			mod.	ne.	cloudy.
S. S. Granada, N. 8° 00′ W. 83° 14′†	29.90	759.4	79	26.1	82	calm			0		0?			0	0	mod.	s.	cloudy.?
S. S. San Blas, N. 25° 50′, W. 113° 24′†	30.09	764.3	62	16.7	77	nne.			4		0			0	0	small	n.	clear.
Bk. Alpheus Marshal, N. 13° 02′, E. 154° 32′ *†	29.75	755.6	81	27.2	78	e.			3		2		e.	½ h'r	½ h'r	light	n.	clear.
S. S. Benalder, N. 16° 45′, E. 114° —′*	30.09	764.3	74	23.3	90	ne.			5-6		6		ne.	0	0	high	ne.	hazy.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 16° 36′, W. 88° 16′	29.97	761.2	72	22.2	100	e.			4		10		e.	0	0	sm'h		cloudy.
U. S. S. Lackawanna, S. 17° 18′, W. 78° 55′	29.95	760.7	72	22.2	85	se.			3		8		se.			sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.00	763.5	65	18.3	89	calm			0		0					h'vy	w.	clear.
U. S. S. Wachusetts, Callao, Peru *	30.00	762.0	71	21.7	85	calm			0		0					sm'h		clear.
H. M. S. Diamond, S. 42° 53′, E. 147° 21′	29.60	751.8	65	18.3	78	n			3		2	nw.						d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.73	755.1	56	13.3	87	calm			0		3					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.89	759.2	60	15.6		nne.			3							3	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.59	751.6	60	15.6	100	n.			2		9							d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	29.75	755.6	49	9.4	85	wnw.			1		8	wnw.						d. clouds.
S. S. Australia, Sydney, N. S. W.	30.02	762.5	64	17.8		sw.			4		2		e.	0	0			clear.
S. S. George S. Homer, S. 38° 40′, W. 125° 13′*†	30.14	765.5				s.			3		0		ssw.	1 h'r	1 h'r	h'vy	var.	fair.
S. Ismir, S. 19° 51′, W. 75° 16′ *	30.25	768.3				sse.			1		4		ssw.	0	0	mod.	ssw	fair.
S. St. Francis, S. 26° 20′, W. 87° 15′ *†	30.20	767.1	71	21.7	75	nne.			4		3		ne.	0	0	sm'h	sw.	clear.
S. Grecian, S. 35° 13′, W. 126° 28′†	30.08	764.0	66	18.9	79	ese.			0		5		se.	1 h'r	1 h'r	mod.	sse.	fair.
S. Henry Failing, S. 39° 33′, W. 129° 45′ *†	30.18	766.6	59	15.0	7	se.			4		7		var.	2 h'r	2 h'r	sm'h	ssw.	fair.
H. M. S. Espiegle, S. 45° 49′, E. 170° 39′	29.51	749.5	50	10.0	79	sw.			3		9							raining.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, S. 13° 43′, E. 47 31′	29.84	757.9	81	27.2	91	nne.			1		10		ne.	2.00	50.8	sm'h		cloudy.
U. S. S. Pensacola, Tamatave, Madagascar	29.78	756.4	82	27.8	75	se.			1		8		se.	0.10	2.5		e.	cloudy.
H. M. S. Coquette, N. 15° 36′, E. 39° 21′	29.90	759.4	84	28.9	83	e.			1		3					sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.93	760.2	79	26.1	86	e.			1		0							blue sky.
H. M. S. Tourmaline, Tamatave, Madagascar	29.87	758.7	79	26.1	86	sse.			1									d. clouds.
H. M. S. Woodlark, Suez Canal, Egypt	29.98	761.5	62	16.7	61	w.			4-6		4	w.						squally.
S. S. Galatia, N. 13° 34′, E. 85° 02′†	29.97	761.2	80	26.7	90	nne.			3		0			0	0	light	ne.	clear.
S. S. Port Phillip, S. 5° 45′, E. 77° 16′*	29.84	757.9	95	35.0		var.			1-2							sm'h	e.	clear.
S. S. Radnorshire, N. 6° 05′, E. 78° 28′*†	29.93	760.2				var.			5		1		nne.	0	0	light	ne.	clear.
S. Carondelet, S. 7° 57′, E. 125° 21′*†	29.88	758.9				wnw.			2		2			0	0	sm'h	wnw.	clear.
S. S. Lepanto, N. 17° 57′, E. 64° 31′	30.07	763.8	75	23.9		ene.			4		10		ne.	0	0	mod.	ne.	cloudy.

International Chart I. January 19, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 20. 1884,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.47	774.0	57.6	14.2	76	nw.			1		0			0	0	clear	Roziere.
Algiers			30.49	774.5	55.0	12.8	89	ese.			1		0			0	0	clear	Aubert.
La Calle			30.45	773.3	59.0	15.0	58	nw.			2		3			0.106	2.7	pretty fair	Fonfrede.
Tunis			30.46	773.7	57.2	14.0	63	nw.			3		2			0	0	fair	Delord.
Tebessa					45.0	7.2	83	se.			5		1			0	0	very fair	Hans.
Geriville					53.6	12.0	33	n.			1		0			0	0	clear	Forfert.
Laghouat			30.52	775.3	56.1	13.4	71	n.			1		0			0	0	clear	Abraham.
Biskra			30.48	774.3	50.4	10.2	65	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.73	755.1	55.7	13.2	61	wsw.	32	14.3			5 k					showery	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.22	742.2	29.41	747.0	59	15.0	94	sse.			2		10		sse.	1.17	29.7	heavy rain.	Com. I. Short, R.N.
Melbourne, Victoria	29.39	746.5	29.48	748.8	59.4	15.2	69	sse.	9	4.0			10			0.39	9.9	threatening.	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.94	760.5	30.52	775.2	38.8	3.8	63	sw.			2		5			0.012	0.3		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.66	753.4	30.47	774.0	34.3	1.3	94	sw	1.3	0.6			10			0.039	1.0		Dr. Wierzbiski
Eperies	29.50	749.2	30.42	772.7	35.6	2.0	72	calm			0		10 s			0.039	1.0		Julius Mikolik.
Gratz	29.21	741.8	30.53	775.5	32.7	0.4	83	e.			2		5			0	0		Andreas Rospini.
Hermannstadt	28.91	734.4	30.46	773.6	25.8	— 3.6	96	wnw.			1		10			0.016	0.4		Prof. A. Gottschling
Kremsmunster, Obs'y	29.18	741.1	30.62	777.3	33.4	0.8	89	nnw.			1		10			0	0	cloudy	The Staff.
Lemberg	29.32	744.7	30.36	771.2	34.0	1.1	83	e.			2		10			0.008	0.2		Dr. T. Stanecki.
Pola	30.32	770.2	30.44	773.1	46.2	7.9	63	wnw.			3		0			0	0		I. R. Hydrographic Office.
Szathmar	29.91	759.7	30.41	772.4	25.0	— 3.4	95	s.			2		10			0	0		Joseph Midliussky, S. J
Szegedin	30.14	765.5	30.43	773.0	35.6	2.0	89	w.			1		10			0	0		Karl Stancel.
Trieste	30.37	771.5	30.47	774.0	44.4	6.9	70	calm			0		7			0	0		Royal Academy.
Vienna	29.80	756.9	30.56	776.1	35.8	2.1	84	nw.			3		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.82	731.9	30.27	768.9	30.6	— 0.8		w.			1		8			0	0	foggy	
Brussels	30.38	771.6	30.59	777.0	34.0	1.1	97	wsw.			5		10			0	0	light fog	
Furnes	30.50	774.7	30.52	775.2	39.7	4.3	94	s.			1		10			0	0		
Maeseyck	30.44	773.1	30.56	776.3	34.2	1.2	85	wsw.			1		10			0	0	dense fog	
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			30.31	769.9	48.3	9.1	89	sw.	24	10.7			7					d. clouds	John Hartnup.
Bolton, Sharples	29.77	756.1	30.32	770.1	47.3	8.5	88	wsw.	12	5.4			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0.01	0.3		McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.06	763.5	30.09	764.3	83	28.3	64	ne.			2		2					blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	30.32	770.1	30.44	773.2	45.5	7.5	84	sw.			1.0		6					d. clouds	John McLaren.
Chatham, School M. E.	30.30	769.6	30.48	774.2	49.7	9.8	75	w.					4					d. clouds	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.28	769.1	30.51	774.9	48.8	9.3	95	ssw.			3		10					drizzling	The Staff.
Fort Napier, Natal	27.60	701.0	29.91	759.7	81.0	27.2	63	ne.			1		4					blue sky	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	88	29.4	64	s.			3		0?					d. clouds?	J. W. Smith.
Galway, Queen's College	30.25	768.3	30.29	769.4	48	8.9	85	sw.			1		6			0.05	1.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.41	772.4	30.46	773.7	60.4	15.8	85	ne.			4		9					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	30.30	769.6	30.48	774.2	46.7	8.2	83	ssw.			4		3					blue sky	The Staff.
Guernsey	30.26	768.6	30.57	776.5	46.2	7.9	92	wsw.			1		10					overcast	A. Collenette, F.R.M.S.
Kew, Observatory	30.45	773.4	30.49	774.4	46.8	8.2	74	sw	16	7.2			3					blue sky	The Staff.
Leicester, Museum	30.13	765.3	30.39	771.9	47.6	8.7	78	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.37	771.4	30.45	773.4	56.0	13.3	82	ne.			2		4			0.22	5.6	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.11	764.8	30.16	766.1	72.0	22.2	95	sw.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.22	767.6	30.45	773.4	49.3	9.6	75	sw.			4		7					d. clouds	The Staff.
Plymouth	30.42	772.7	30.50	774.7	50.0	10.0	87	sw.			3		10					drizzling	John Merrifield.
Sandwick Manse, Orkneys	29.66	753.4	29.76	755.9	43.2	6.2	87				2							d. clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.15	765.8	30.22	767.6	28.8	— 1.8	78	n.			3		8					d. clouds	W. H. Lyne.
Sheffield	30.04	763.0	30.33	770.4	50.5	10.3	82	sw.			1		9			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.22	767.6	30.25	768.3	47.6	8.7	87	w.			4		0			0.025	0.6	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.31	769.9	47.2	8.4	92	w.	12	5.4			10 s					overcast	Rev. S. J. Perry.
Strathfield Turgiss					50.7	10.4	76	w.			2.8		7					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.40	772.1	30.43	772.9	49.9	9.9	70	wsw.	18	8.0			6					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	30.03	762.7	30.42	772.7	53.6	12.0	56	ne.	3.7	1.7		0	4 k		ne.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.16	766.1	30.20	767.1	—15.0	—26.1		calm	0	0			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.02	762.5	30.07	763.8	— 2	—18.9	100	n.	12	5.4		5 c	2 s			0.075	1.9	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.12	765.0	30.19	766.8	—10	—23.3	100	n.	2	0.9		5 ck	2 ks	n.	n.	0	0	fair	G. A. Blair.
Cornwall, Ontario	29.93	760.2	30.14	765.5	— 7.7	—22.1	100	e.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.20	767.1	30.25	768.3	—15.0	—26.1		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.21	767.3	30.23	767.8	—29	—33.9	100	s.	10	4.5		8 c	2 s	calm	calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.47	748.5	30.44	773.2	—12	—24.4	95	nw.	2	0.9		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.12	765.0	30.2[illegible]	767.1	— 6.9	—21.6	96	w	1	0.4		0	1 s			0	0	d. clouds	Prof. Thos. Harrison.
Grand Manan, N. B.	30.03	762.7	30.09	764.3	6	—14.4	87	ne.	18	8.0			10 s		ne.	0.07	1.8	cloudy	J. Chipman Seeley
Granton, Ontario	29.06	738.1	30.31	769.9	— 5.8	—21.0	93	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.88	758.9	30.02	762.5	3	—16.1	96	n.	10	4.5		10 k	0			0.290	7.4	cloudy	A. Allison.
Hamilton, Ontario	29.77	756.1	30.22	767.6	9.7	—12.4	88	sw.			1	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.79	756.7	30.17	766.3	— 1	—18.3	87	n.	4	1.8		10 cs	0	n.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.								ne.	7	3.1			10 n			0.600	15.2	snowing	C. H. Rigby.
London, Ontario	29.28	743.7	30.30	769.6	— 5.0	—20.6	79	calm			0	0	0			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T.	29.92	760.0	30.42	772.7	10	—12.2	91	s.	20	8.9		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T.	28.25	717.5	30.45	773.4	— 6	—21.1	100	w.	3	1.3		0	0			0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.95	760.7	30.19	766.8	—12	—24.4	100	e.	7	3.1			10 s			Inap.	Inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.95	760.7	30.22	767.6	—24.0	—31.1	66	nnw.				0	4 s			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.46	748.3	30.30	769.6	—27	—32.8	84	n.	5	2.2		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.39	746.5	30.22	767.6	— 3.9	—19.9	51	nw.			1	3 c	0	w.		0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.53	750.0	30.33	770.4	— 2	—18.0	72	w	1	1.8		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.48	748.8	30.25	768.3	1	—17.2	94	n.	5	2.2		0	0			0.05	1.3	clear	H. Morgan.
Port Stanley, Ontario	29.55	750.6	30.29	769.4	— 5	—20.6	95	calm	0	0		5 ck	0	w.		0	0	fair	M. Payne.
Qu Appelle, N. W. T	27.87	707.9	30.41	772.4	— 2	—18.9		sw.	4	1.8		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.79	756.7	30.20	767.1	—10	—23.3	76	calm	0	0		10 cs	0			0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.71	754.6	30.28	769.1	—32	—35.6	100	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B.	30.05	763.3	30.10	764.5	— 2	—18.9	87	n.	8	3.6		0	0			0.25	6.3	clear	
St. John, N. B	29.96	761.0	30.12	765.0	— 1.6	—18.7	85	n.	16	7.2		6 cs	0	w.		0.150	3.8	fair	G. Hutchinson.
Saint John's, N. F.																			J. Higgins.
St. Pierre, N. F.			29.61	752.0	14.0	—10.0		nw.			3								The Commandant.
Saugeen, Ontario*	29.46	748.3	30.28	769.1	—10	—23.3	95	calm	0	0		0	0			0	0	clear	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.89	733.8	30.29	769.4	— 3.6	—19.8	83	calm	0	0		1 cs	0			0	0	blue sky	W. Mc Bride, M. A.
Sydney, C. B*	29.80	756.9	29.87	758.7	14	—10.0	100	n.	24	10.7			10 n			0.20	5.1	light snow	T. C. Hill, C. E.
Toronto, Ontario*	29.81	757.2	30.25	768.3	— 4	—20.0	91	n.	9	4		2 cs	5 s			0	0	fair	Magnetic Observatory.
Woodstock, Ontario	29.13	739.9	30.30	769.6	— 9.3	—22.9	91	w.	1	0.4		0	0			0	0	blue sky	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.93	760.2	30.01	762.2	9	—12.8	66	ne.	8	3.6		5 k	5 k	w.	ne.	0.34	8.6	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.79	756.7	29.82	757.4	76.5	24.7	91	ne.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.78	756.4			71.8	22.1	71	nnw.				7 c;k	0			c	0		Capt.R.Gardner Warton
Springbok Fontein	27.84	707.1			78	25.6	46									c	0		J. T. Eustace
Chilian.																			
Coquimbo	29.92	759.9	30.00	761.9	64.4	18.0	88	nw.			3	10	0					cloudy	Samuel Redolez.
Iquique																			Rafael Moreno.
Niebla	29.51	749.6	29.62	752.3	63.0	17.2	53	e.			1	1 c	0	s.		0	0	fair	Federico Köhling.
Punta Caldera	29.83	757.6	29.91	759.8	71.6	22.0	89	sw.			1	0	6 c		sw.			fair	Manuel Tobar.
Punta Corona	29.88	758.9	30.06	763.6				calm			0	0	0			0	0	clear	Francisco Alvarado.
Valparaiso	29.78	756 5	29.92	760.0	63.5	17.5	80	ne.				4	0					fair	Paez-I-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.60	777.1	30.62	777.7	29.5	— 1.4	74	nne.	2.9	1.3			0			0	0		M.Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.21	767.2	30.25	768.4	41.5	5.3	86	wsw.	20	9			10						Oversergent Fischer.
Fanöe	30.24	768.0	30.26	768.5	40.8	4.9	87	wsw.			0		10						Overloerer Lauridsen.
Godthaab, Greenland	29.77	756.2	29.82	757.3	—10.1	—23.4	100	nw.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.10	739.0	29.14	740.1	29.5	— 1.4	86	sw.			6		10					snowing	A. O. Thorlacius.
Thorshavn	29.45	748.0	29.47	748.6	37.8	3.2	81	s.	13	6			6						Overloerer Bergh.
Vestervig	30.03	762.7	30.12	765.1	40.5	4.7	94	sw.			7		10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.85	758.3			59.0	15		w.	6.9	3.1			9			inap.	inap.	covered	Albert Ismaiun.
French.																			
Agen, Normal School	30.04	763 0	30.73	780 6	33.1	0.6	100	se.			1					0	0	foggy	M. Labroue, Director.
Alençon, Normal School	30.12	765.1	30.67	779 1	36.0	2.2	96	w.			1		n		e.	0	0		M. Nicot, Director.
Arras, Normal School			30.55	776.0	35.1	1.7	94	ssw.			2		10		ssw.	0	0	covered	M. Ungerer, Director.
Avignon, Normal School	30.48	774.3	30.56	776.3	43.5	6.4	79	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.07	763.8	30.66	778.8	35.4	1.9	99	sse.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.36	771.2	30.65	778.4	39.7	2.6	89	ssw.			1		10			0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.66	753.4	30.61	777.4	34.3	1.3	89	ne.			1				se.	0	0	foggy	M. Gobin, Director.
Bordeaux, Observatory	30.37	771.5	30.65	778.5	35.4	1.9	91	se.			1		10			0.039	1.0	covered	M. Rayet, Director.
Bourges, Normal School	30.07	763.7	30.66	778.7	33.8	1	89	nw.			1				nw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	30.33	770.4	30.58	776.6	47.5	8.6	89	s.			2		10		s.	0	0	misty	M. de Kermarée, Dir.
Caen, Normal School	30.50	774.8	30.59	776 9	37.8	3.2	97	s.			1		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch	30.33	770.4	30.67	779.0	35.4	1.9	81	ssw.			1		10			0.008	0.2	covered	M. Jadot, Director.
Charleville, Normal School	30.08	764.0	30.60	777.2	32.2	0.1	92	e.			2					0	0	foggy	M. Noël, Director.
Clermont-Ferrand Obs'y	29.19	741.4	30.64	778.3	32.0	0.0	89	wnw.			1		10			0	0	foggy	M. Alluard, Director.
Cluny, Normal School	29.71	754.5	30.59	777.0	33.1	0.6	88	se.			1		10			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.76	755 9	30.68	779.2	34.9	1.6	94	e.			1		10	e.	e.	0	0	foggy	Dr. Coulet, Director.
Gap, Normal School	27.95	709.8	30.54	775.7	49.1	9.5	48	calm			0		0			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.35	745.6	30.50	774.7	55.0	12.8	48	nw.			1		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.83	757.7	30.64	778.3	37.0	2.8	86	e.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	29.04	737.5	30.65	778.4	44.6	7	85	se.			1		1		sse.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Polipre, Director
Lescar, Normal School	30.06	763.6	30.64	778.3	37.0	2.8	83	e.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.53	775.4	30.63	778.0	42.8	6.0	73	se.			2					0	0		Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.54	750 2	30.66	778.7	34.9	1.6	85	n.			1		n		ne.	0	0		M. André, Director.
Mans, Normal School	30.34	770 7	30.67	779.1	33.3	0.7		ene.			1		10			0.004	0.1	foggy	M. Richard, Director.
Marseille, Observatory	30.25	768.3	30.52	775.3	54.0	12.2	60	w.			0-1		3		w.	0	0		M. Stephan, Director.
Montlouis	25 20	640.1	30.04	763.1	44.2	6.8	33	w.	9.4	4.2			0			0	0		M Cave for Dr. Fines.
Montpellier, Normal School	30.41	772.4	30.52	775.2	48.9	9.4	73	n.			2		0			0	0	clear	M. Gulzin, Director.
Nancy, Normal School	29.85	758.1	30.69	779.4	32.4	0.2	93	ssw.			1					0	0	foggy	M. Hasse, Director.
Nantes, Observatory	30.52	775.2	30.68	779.3	33.8	1.0	96	ne.			1		10			0	0		M. Larocque, Director.
Perpignan, Observatory	30.47	774 0	30.59	777.0	47.3	8.5	76	sw.	1.8	0.8			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.55	547.3			35.6	2.0							0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.45	748.1	30.58	776.7	38.3	3.5	87	n.			1		n			0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25 57	649 5			43.5	6.4	18	ene.			2		0			0	0		M. Alluard.
Rochefort, Naval Obs'y	30.63	778 0	30.66	778.8	36.3	2.4	86	calm			0					0.12	3.	misty	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.32	770.1	30.55	776.0	34.9	1.6	93	e.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.36	720.3	30.62	777 7	36 7	2.6										0.016	0.4	foggy	M. Seger, Director.
Rouen, Normal School	30.55	776.0	30.60	777.2	36.0	2.2	93	sse.			1		10		s.	0	0	covered	M. Moullilot, Dir.
St. Lô, Normal School			30.48	774.1	38.3	3.5	92	s.			1		10			0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.48	774.2	30.65	778 4	31.8	— 0.1	100	wsw.			1		10			0	0	covered	M. Renou, Director.
Toulouse, Observatory	29.92	760.0	30.66	778.7	33.4	0.8	100	nw.			1		10			0	0	covered	M. Bailland, Director.
Tours	30.47	773.9	30.65	778.4	45.7	7.6	93	ene.			1					0	0	misty	M. de Tastes.
Versailles, Observatory	30.13	765.2	30.62	777.7	32.0	0.0		calm			0		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.52	775.2	30.67	779.0	39.7	4.3	93	ne.	5.8	2.6			10 k		ne.	0	0	covered	M. Cartier, Director.
German.																			
Ansbach	29.11	739.3	30.65	778 6	33.1	0.6	92	calm			0		10			0	0		Prof. Jnedt.
Bamberg	29.69	754.0	30.55	775.9	36.3	2.4	80	nw.			1		10			0	0		Prof. Dr. Hoh.
Berlin	30.36	771.1	30.51	775.0	40.3	4.6	81	w.			2		10			0	0		Meteorological Institute
Breslau	25 99	761.8	30.53	775.5	36.1	2.3	87	wnw.			2		10			0	0		Royal University Obs'y
Carlsruhe	30.16	766.1	30.66	778.7	32.4	0.2	91	sw.			2		10			0	0	foggy	Albert Senz.
Cassel	29.78	756.3	30.49	774.4	37.0	2.8	95	s.			2		8	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.23	767 8	30.61	777.6	36.1	2.3	91	sw.			1		10			0	0		Physical Society.
Friedrichshafen	29.17	740.9	30.68	779.3	31.6	— 0.2	92	sw.			2		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.35	771.0	30.45	773 3	41.0	5.0	87	sw.			3		2			0	0	hazy	E. Preller.
Kiel	30.37	771 3	30.38	771.7	42.4	5.8	82	sw.			4		3			0	0		Prof. Dr.G. Karsten.
Leipsic, Astron'l Obs'y	30.13	765.2	30.56	776.2	38.7	3.7	85	sw.			2		10			0	0		H. Leppig, Asst.
Magdeburg	30.32	770.0	30.52	775.1	41.0	5.0	76	wsw.			2		10			0	0	foggy	Weather Observatory.
Memel	30.26	768.7	30.31	769.9	36.3	2.4	96	nw.			3		10 s					foggy	Isermann.
Munich	28.68	728.5	30.58	776.7	38.3	3.5	69	w.			1		1			0	0		Central Station.
Neufahrwasser	30.35	770.9	30.37	771.3	40.1	4.5	90	w.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	30.04	763 0	30.58	776.6	37.8	3.2	87	calm			0		10			0	0	foggy	Dicknether.
Stuttgart	29.64	752.9	30.60	777.1	32.0	0.0	94	n.			1		10			0	0	dense fog	Prof. Dr. Schoder.
Wustrow	30.33	770.4	30.35	771.0	41.2	5.1	83	ssw.			3		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.91	759.6	30.32	770.0	32.9	0.5		n.			1.0	0	8			0.665	16.9	light snow	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.07	763.7	30.12	765.1	70.9	21.6	66	ssw.	11.0	4.9			0			0	0	blue sky	
Deesa	29.61	752.0	30.09	764.2	79.0	26.1	24	se.	3.0	1.3			0			0	0	blue sky	
Bombay	30.01	762.2	30.05	763.2	77.6	25.3	74	nnw.	15.0	6.7			0			0	0	blue sky	
Poona, Yarrowda	28.18	715.9	30.05	763.3	78.3	25.7	34	ene.	5.0	2.2			0			0	0	blue sky	
Belgaum	27.46	697.6	30.01	762.2	77.1	25.1	40	nne.	7.0	3.1			4	w.	e.	0	0	d. clouds	
Lahore	29.32	744.7	30.09	764 3	65.6	18.7	49	calm	0	0			0			0	0	blue sky	
Roorkee	29.09	739.0	30.02	762.5	68.7	20.4	35	w.	2.0	0.9			0			0	0	blue sky	
Agra	29.48	748.9	30.07	763.7	71.2	21.8	42	w.					0			0	0	blue sky	
Nagpur	29.00	736.7	30.07	763 7	73.3	22.9	45	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Tubbulpore	28.71	729.2	30.11	764.8	67.1	19.5	60	calm	0.4	0.2			0			0	0	blue sky	
Lucknow	29.71	754.6	30.10	764.6	68.3	20.2	41	sw.	3.0	1.3			0			0	0	blue sky	
Allahabad	29.72	754.8	30.04	763.0	66.7	19.3	64	calm	0	0			0			0	0	blue sky	
Patna	29.82	757.5	30.02	762.4	69.1	20.6	48	w	3.8	1.7			0			0	0	blue sky	
Hazaribagh	27.97	710.3	30.04	763.0	64.7	18.2	46	nw.	6.0	2.7			0			0	0	blue sky	
Cuttack	29.95	760.8	30.04	762.9	73.8	23.2	58	nnw.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	29.90	761.7	30.01	762.3	70.0	21.1	66	calm	0	0			2			0	0	d. clouds	
Dhubri	29.87	758.7	29.99	761.8	69.3	20.7	70	calm	0	0			1			0	0	d. clouds	
Chittagong	29.92	759.0	30.01	762.3	70.6	21.4	74	calm	1.8	0.8			8			0	0	d. clouds	
Sibsagar	29.67	753.7	30.02	762.6	63.9	17.7	82	ne.	1.0	0.4			10	w.	w.	0	0	overcast	
Jeypore	28.64	727.3	30.12	765.0	69.7	20.9	30	nw.	6.5	2.9			1	nw.		0	0	d. clouds	
Zanzibar	29.84	758.0	29.87	758.6	82.3	27.9	65	ne.	10.2	4.6			9		nw.	0	0	d. clouds	
Bellary	28.52	724.4			78.0	25.6	53	n.	4	1.8		3 c	0			0	0	d. clouds	
Trichinopoly	29.74	755.4			85.2	29.6	50	ne.	0.2	0.04		2	2			0	0	d. clouds	
ITALIAN.																			
Udine	30.04	762.9	30.46	773.7	44.2	6.8	52	calm	0	0			1			0	0		Prof. Giovanni Olodig.
Milan	29.94	760.4	30.48	774.1	41.0	5.0	72	nw.	6.3	2.8			0			0	0		Prof. G.V.Schiapparelli
Padua	30.33	770.4	30.45	773.3	37.9	3.3	80	s.	2.5	1.1			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.57	751.1	30.52	775.1	41.0	5.0	66	ne.	1.3	0.6			0			0	0		Prof. F. F. Denza.
Genoa	30.29	769.3	30.48	774.3	52.7	11.5	47	calm	0	0			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.44	773.1	30.49	774.4	42.4	5.8	70	nnw.	6.3	2.8			2	n.		0	0		Prof. Luigi Guidi.
Florence	30.24	768.2	30.50	774.7	40.3	4.6	71	ne.			2		0			0	0		Prof. Costantino Pittei
Leghorn	30.33	770.4	30.42	772.6	49.6	9.8	75	w.	5.6	2.5			0			0	0		Prof. P. Monte.
Rome	30.24	768.1	30.42	772.7	51.4	10.8	45	n.	0	0			0			0	0		Prof. P. Tacchini.
Lecce	30.09	764.3	30.35	771.0	47.8	8.8	55	ne.	15.0	6.7			5	ne.		0	0		Prof. C. de Giorgi.
Cosenza	29.48	748.7	30.40	772.2	44.6	7.0	71	wnw.	1.8	0.8			3	w.		0	0		Prof. D. Conti.
Cagliari	30.25	768.4	30.45	773.4	55.0	12.8	57	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	30.20	767.1	30.46	773.6	54.5	12.5	59	nne.	4.9	2.2			7	nne		0.024	0.6		Prof. G. Cacciatore.
Syracuse	30.32	770.1	30.36	771.2	52.7	11.5	63	n.	7.4	3.3			4	nw.		0.079	2.0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.88	759.0	30.42	772.7	52.0	11.1	45	wnw.	1.3	0.6			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.96	761.0	29.99	761.7	20.0	— 6.7	93	calm			0		10 k;s		w.	0.004	0.1	cloudy	H. Hattori.
Awomori	29.96	761.0	30.00	762.0	20.1	— 6.6	66	sw.	3.4	1.5		0	2 s			0.127	3.2	fair	K. Ogawa.
Hakodate	30.01	762.3	30.02	762.5	29.3	— 1.5	56	nnw.	13.8	6.2		0	1 s			0.642	16.3	clear	Y. Souma.
Hamamatsu	29.98	761.5	30.08	764.0	29.6	— 1.3	72	w.			6	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.36	771.1	30.37	771.5	28.7	— 1.8	100	w.	1.8	0.8		0	1 n		n.	0.106	2.7	light snow	Y. Okamoto.
Kagoshima	30.40	772.3	30.42	772.6	30.0	— 1.1	83	n.			2	0	0			0	0	clear	
Kanazawa	30.03	762.7	30.14	765.4	20.0	— 1.7	67	nw.	7.6	3.4		0	1 s			0.313	7.9	fair	S. Endo.
Kioto	30.00	762.1	30.18	766.5	28.6	— 1.9	80	w.	3.7	1.6		0	2 s			0.375	9.5	clear	M. Tojima.
Kochi	30.28	769.1	30.30	769.6	33.0	0.6	71	wnw.	5.5	2.4		0	1 s		n.	0	0	clear	K. Kusunose.
Miasaka	30.37	771.5	30.41	772.3	31.5	— 0.3	51	wnw.			1	0	0			0	0	clear	K. Masusaki.
Miyako	29.83	757.7	29.94	760.5	28.4	— 2.0	78	nnw.	6.0	2.7			10 s			0.346	8.8	cloudy	N.Honno & K.Suwa.
Nagasaki, I. M. Obs'y	30.21	767.3	30.43	772.9	30.8	— 0.7	81	calm	0	0		0	0			0	0	clear	
Nemuro	29.89	759.2	29.94	760.5	28.3	— 2.1	70	nw.	21.0	9.4		0	4 s		nw.	0	0	fair	A Shibuya.
Niigata	29.94	760.5	29.98	761.5	22.9	— 5.1	75	sw.	3.8	1.7		0	4ks;s		w.	0.330	8.4	fair	Satoo & Tomikawa.
Nobiru	29.93	760.1	29.94	760.5	29.6	— 1.3	100	nnw.	18.6	8.3			10 ks			0	0	covered	Yoslino & Midzushina.
Numadzu	29.95	760.7	29.99	761.7	28.6	— 1.9	44	ne.			2	0	0			0	0	clear	T.Ohgi.
Osaka	30.20	767.2	30.22	767.0	30.8	— 0.7	85	w.	11.0	4.9		0	4 n			0.020	0.5	light snow	G. Omura.
Sakai	30.31	769.8	30.32	770.0	35.5	1.9	66	wnw.			6	0	2 ks		wnw.	0.228	5.8	clear	Yamawchi & Sakamoto.
Sapporo	30.02	762.4	30.09	764.3	20.7	— 6.3	74	nw.	2.4	1.1		0	3 s		nw.	0	0	clear	S. Kimura.
Shimonoseki	30.24	768.2	30.39	771.9	31.5	— 0.3	83	n.			1	0	2 s		nw.	0.244	6.2	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.89	759.2	29.97	761.3	27.6	— 2.4	61	n.	8.7	3.9		0	0			0	0	clear	The Staff.
Wakayama	30.19	766.7	30.24	768.1	31.6	1.4	72	nw.	5.9	2.6		0	1 ck		w.	0	0	clear	K. Sakai & S.Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.64	752.8	29.82	757.4	80.2	26.8	76	ese.	22.0	9.8		2 cs	4 kn		ese.	0.30	7.6	fair	The Staff.
MEXICAN.																			
Leon	21.45	621.0	30.38	771.6	41.4	5.2	86	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.79	756.6	30.05	763.3	63.5	17.5	78	nne.	1.0	0.5		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.54	775.7	30.54	775.7	38.5	3.6		ssw.			4					0	0		
Groningen	30.45	773.3	30.50	774.7	36.7	2.6		sw.			2					0	0		
Helder	30.43	772.8	30.43	772.8	41.4	5.[illegible]		sw.			4					0	0		
Hellevoetsluis	30.53	775.4	30.53	775.4	48.9	9.[illegible]	97	wsw.			3					0	0		
Utrecht	30.48	774.1	30.53	775.5	37.9	3.3	97	sw.			3		10			0.004	0.1	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.6			77.7	25.4	89	nw.	0	0			10			0.858	21.8		Lt.J.J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.50	749.3	29.56	750.9	45.7	7.6	80	ssw.	34	15			10			0.906	23.0	raining	
Brono	29.04	737.6	29.08	738.6	37.0	2.8	77	s.			6		10			0.453	11.5	raining	
Christiania	29.52	749.7	29.67	753.5	38.3	3.5	93	s.	25	11			7			0.079	2.0		
Gjæsvær	29.17	741.0	29.20	741.6	32.0	0.0		sw.			4		10			0	0		
Lodingen	29.19	741.5	29.24	742.7	38.1	3.4	62	s.			7		10			0.079	2.0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.44	773.2	30.53	775.5	60.8	16.0	56	n.	0	0			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.21	768.2	30.66	777.3	42.1	5.6	94	nne.	10.5	4.7			0			0.008	0.2		The Staff.
Ponta Delgada, Azores	30.58	776.6	30.65	778.4	64.4	18.0	84	calm	0	0			3			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.																			
San Salvador, Congo	30.06	763.4	30.09	764.3	69.1	20.6	70	e.			5		3			0	0		
Serra da Estrella	28.07	712.9	29.88	759.0	81.5	27.5	67	sw.			2		7			0	0		
	25.67	652.0	30.50	774.7	46.0	7.8	31	sse.	3.8	1.7			0			0	0		
RUSSIAN.																			
Akmolinski	29.15	740.4	30.38	771.7	— 7.1	—21.7	85	ene.	9	4			9 k			0	0		Major K. Lasarew.
Archangel	29.33	745.0	29.35	745.5	30.4	— 0.9	98	wnw.	18	8			10			0.169	4.3	light snow	Capt. Sseliwerstow
Ashurada	30.08	764.0	29.98	761.6	47.7	8.7	88	nw.	7	3			10 kn			inap.	inap.		
Astrakhan	30.29	769.3	30.21	767.2	19.8	— 6.8	86	w.	4	2			9 ks			0	0		Capt. Wisganow.
Baku	30.13	765.4	30.09	764.2	37.2	2.9	90	n.	18	8			9 kn			0.008	0.2		
Barnaul	29.86	758.4	30.43	772.9	— 6.2	—21.2	87	nw.	9	4			9			0	0		Meteorological Office.
Bielosersk	29.31	744.4	29.80	756.9	23.5	— 4.7	97	sw.	11	5			10 s			0.031	0.8	light snow	
Dorpat	29.89	759.2	30.15	765.7	29.5	— 1.4	90	wsw.	7	3		2 c	0			0.008	0.2		Observatory.
Ekaterinburg	29.20	741.7	30.30	769.5	— 7.8	—22.1	91	w.	7	3		0	0			0	0	foggy	Meteorological Obs'y.
Elissawetgrad	29.91	759.7	30.41	772.4	9.3	—12.6	84	nnw.	13	6			10 n			inap.	inap		
Kasan	29.95	760.6	30.26	768.5	—11.9	—24.4	91	calm	0	0			3			0	0		Observatory.
Kem	29.58	751.3	29.63	752.6	28.8	— 1.8	76	w.	18	8		0	0			0.024	0.6		
Kerten	30.16	766.1	30.19	766.7	19.0	— 6.9		calm	0	0			10 n			blank	blank		Lagorio & Sastyres.
Kieff	29.68	753.9	30.39	771.8	9.7	—12.4	96	calm	0	0		ck	7 ks			0	0	light clouds	Observatory.
Koslov	29.71	754.6	30.28	769.1	— 3.8	—19.9	72	n.	7	3		0	2 s			0	0		
Lgov	29.75	755.7	30.41	772.3	4.1	—15.5	73	calm	0	0		0	0			blank	blank		R.I.Ssaweljew, 'Engin'r.
Libau	30.20	768.0	30.28	769.2	37.2	2.9	91	wsw.	9	4			10			0	0		L. Quass.
Lugan	30.00	762.0	30.22	767.7	16.5	— 8.6	76	ese.	4	2			10			0	0		Meteorological Obs'y
Moscow	29.67	753.6	30.21	767.2	6.3	—14.3	86	wnw.	2	1			10 s			0.012	0.3		Meteorological Obs'y
Nertschinsk	27.99	710.9	30.66	778.8	—18.0	—27.8	86	calm	0	0			3			0	0	light clouds	

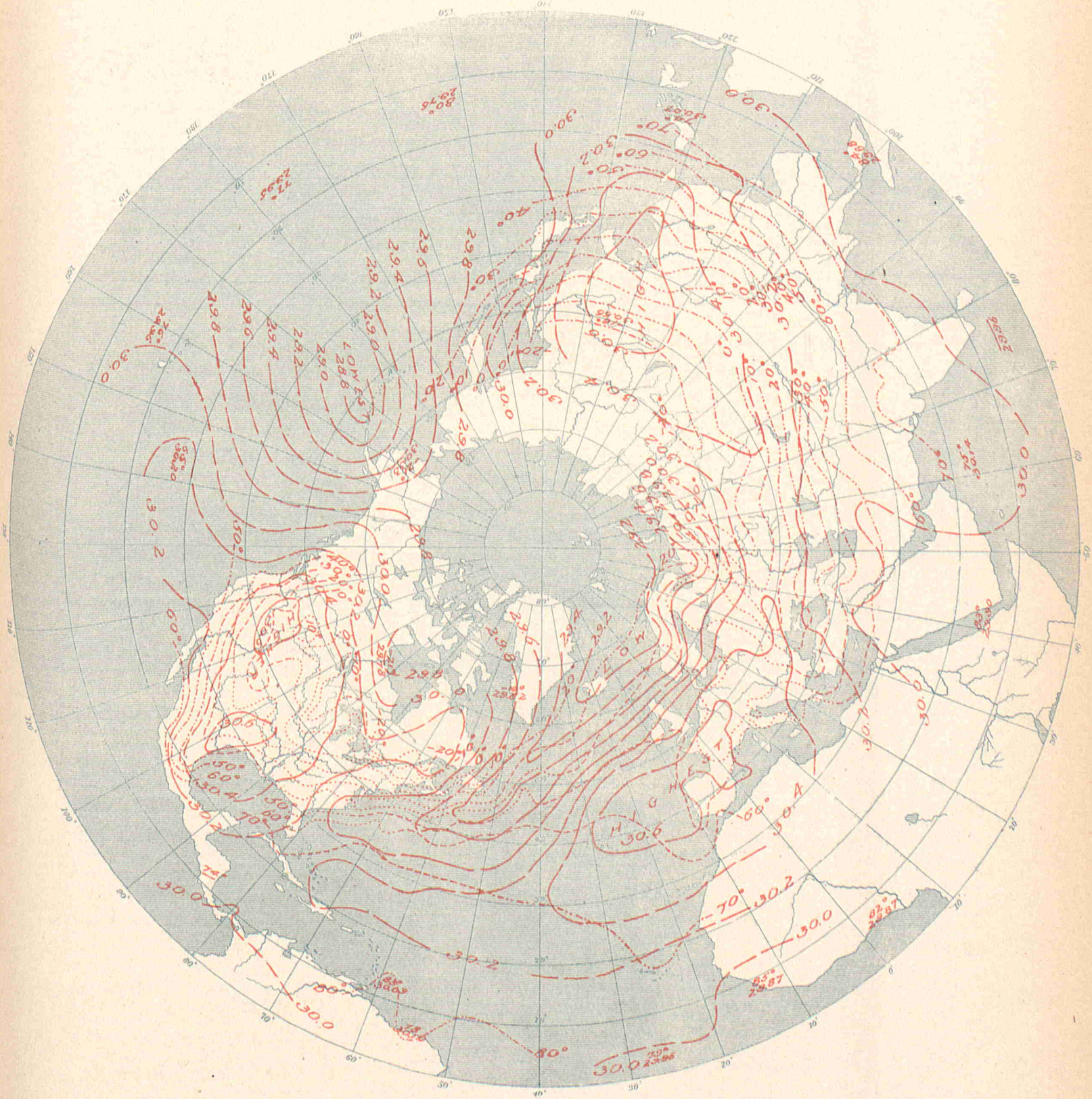
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mils. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaiev	30.26	768.6	30.33	770.4	12.4	—10.9	83	nnw.	22	10			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	30.24	768.1	30.33	770.3	—21.1	—29.5	80	calm	0	0		0	0						Iwanow.
Pekin, China	30.45	773.4	30.59	777.0	23.0	— 5.0	76	se.	2.2	1.0			9 n			0	0		Physical Observatory
Petro-Alexandrovsk	29.68	753.8	30.04	763.1	38.1	3.4	97	calm	0	0			10 n						
Petrozavodsk	29.57	751.0	29.77	756.2	32.0	0.0	87	nw.	11	5		0	3 ks			0.043	1.1		Dr. Bergmann.
Pinsk	29.82	757.3	30.34	770.7	31.1	— 0.5	98	calm	0	0			10			0.079	2.0		
Poti	30.03	762.7	30.06	763.5	36.5	2.5	91	s.	7	3			10 n			0.642	16.3	rain & snow	
St. Petersburg	30.00	761.9	30.02	762.5	28.4	— 2.0	88	wnw.	13	6		3 c;cs	0			0.004	0.1	light clouds	Central Physical Obs'y.
Samarkand	27.58	700.4	30.04	762.9	55.6	13.1	54	calm	0	0		0	6						
Semipalatinsk	29.74	755.4	30.49	774.5	— 5.4	—20.8	86	calm	0	0			8			0.024	0.6		Major Lasarew
Sevastopol	29.95	760.7	30.18	766.6	17.1	— 8.3	76	ne.	20	9		3 cs	0			0	0		
Staroi Bykhov	29.69	754.1	30.29	769.3	20.7	— 6.3	84	s.	11	5			10			0	0		
Tashkend, Laboratory	28.35	720.0	30.03	762.8	50.5	10.3	72	calm	0	0			9 n						Terch, A. M
Tiflis	28.63	727.2	30.13	765.2	30.7	— 0.7	77	n.	2	1			10			0.185	4.7		Physical Observatory.
Vernoe	27.54	699.4	30.17	766.2	28.4	— 2.0	65	calm	0	0		3 ck	0						
Viatka	29.45	747.9	30.17	766.2	— 9.4	—23.0	89	s.	7	3			7			0	0		
Vladivostock	30.49	774.4	30.56	776.1	1.0	—16.9	78	n.	18	8		0	0			0	0		
Warsaw	29.98	761.4	30.43	772.8	34.5	1.4	93	w.	7	3			10			0.004	0.1	h'vy clouds	Astronomical Obs'y.
Yeniseisk	30.11	764.9	30.45	773.5	—22.0	—30.0	73	calm	0	0			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.53	750.0	30.12	765.0	6.1	—14.4	83	s.	15	6.7			10 s		sw.	inap.	inap.	cloudy	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.41	773.1	30.55	776.0	56.8	13.8	59	w.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.59	776.9	30.65	778.0	47.5	8.6	85	se.	1.3	0.6		3	2	w.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.53	699.3	30.61	777.5	45.9	7.7	60	ne.	3.1	1.4		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.32	719.2	30.64	778.2	46.2	7.9	65	ne.	2.5	1.1		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.46	773.7	30.59	776.9	50.4	10.2	90	s.	2.7	1.2		6	3	wnw.		0	0	almost cov'd	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.61	752.2	30.54	775.8	45.3	7.4	77	ne.	5.6	2.5			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.10	764.4	30.16	766.0	72.9	22.7	80	n.	10.3	4.6		cs;ck	4 ks	w.	n.	inap.	inap.	fair	Benito Vines, S. J.
Manilla, Philippine Islands	30.02	762.4	30.07	763.8	74.0	23.3	76	e.	2.2	1.0		0	8			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.45	773.5	30.55	776.1	60.6	15.9	53	e.	13.4	6.0		0	2		e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	29.86?	758.4?	29.95?	760.7?	74.5	23.6	92	calm	0	0		0	7 kn		e.	0	0	cloudy	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.67	753.7	29.71	754.7	25.9	— 3.4	91	sw.			2		5			0	0		
Umea	29.72	754.8	29.77	756.1	31.3	— 0.4	89	sw.			2		10			0.079	2.0		
Hernosand	29.73	755.1	29.78	756.4	33.8	1.0	81	s.			4		10			0	0		
Stockholm	29.81	757.2	29.99	761.7	33.8	1.0	85	sw.			2		10			0	0	foggy	
Wisby	30.08	764.1	30.14	765.6	38.1	3.4	90	sw.			4		5			0	0		
Sub-series.																			
Upsala	29.85	758.3	29.94	760.5	31.8	— 0.1	96	ssw.	15.2	6.8			10			0.016	0.4	dense fog	H. H. Hildebrandsson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.25	768.3	29.5	— 1.4	96	n.	13	6.0			8		n.	0.118	3.0		The Observatory.
Valona			30.33	770.4	47.7	8.7		nw.			2		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.8	48.7	9.3	87	sw.			3		10 n		sw.	0.685	17.4		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.04	763.0	30.13	765.3	12	—11.1	80	n.	5	2.2			10 n			0.27	6.9	light snow	J. O. Barnes.
Alpena, Michigan	29.54	750.3	30.25	768.3	—13	—25.0	47	calm	0	0		0	1 s			0.01	0.3	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.25	641.3	30.37	771.4	25.0	— 3.9	76	se.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assiniboine, Ft., Montana	27.44	697.0	30.48	774.2	14.7	— 9.6	67	nw.	16	7.2		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.04	737.6	30.27	768.8	27.6	— 2.4	78	nw.	22	9.8			10 s		nw.	0	0	cloudy	S. W. Beall.
Atlantic City, New Jersey	29.97	761.2	29.98	761.5	28.0	— 2.2	88	n.	11	4.9			10 n			0.58	14.7	light snow	B. A. Blundon.
Augusta, Georgia	29.98	761.5	30.18	766.6	40.5	4.7	65	w.	7	3.1		0	1 s			0	0	clear	W. J. Evans.
Baltimore, Maryland	30.00	762.0	30.05	763.3	32.7	0.4	71	ne.	4	1.8			10 s		n.	0.19	4.8	threatening	Geo. W. Feiger.
Barnegat City, New Jersey	29.98	761.5	30.00	762.0	28.5	— 1.9	88	ne.	24	10.7			10 s		ne.	0.38	9.7	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.79	731.3	30.53	775.4	5.5	—14.7	76	calm	0	0		2 c	0	nw.		inap.	inap.	clear	A. Pritchard.
Benton, Fort, Montana	27.57	700.3	30.55	776.0	20.5	— 6.4	32	w.	4	1.8		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.47	723.1	30.47	773.9	3	—16.1	100	w.	6	2.7		0	9 s		nw.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.99	761.7	30.02	762.5	23.0	— 5.0	73	n.	24	10.7			10 s		ne.	0.21	5.3	cloudy	J. T. Elker.
Boise City, Idaho	27.75	704.8	30.68	779.3	9	—12.8	91	se.	4	1.8		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.90	759.4	30.07	763.8	12.0	—11.1	80	nw.	13	5.8			10 n			0.64	16.3	light rain	O. B. Cole.
Brownsville, Texas	30.52	775.2	30.55	776.7	36.0	2.2	79	n.	8	3.6		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.41	747.0	30.20	767.1	9	—12.8	89	nw.	8	3.6			10 n			0.07	1.8	light snow	Wm. Finn.
Buford, Fort, Dakota	28.26	717.8	30.49	774.4	— 4	—20.0	87	w.	1	0.4		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	30.12	765.0	30.54	775.7	15.0	— 9.4	83	n.	10	4.5			10 s		n.	0.04	1.0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.08	764.0	30.28	769.1	43.5	6.4	51	e.	14	6.3		3 cs	0	n.		0	0	clear	J. H. Young.
Cape Henry, Virginia	29.96	761.0	29.98	761.5	36.0	2.2	89	nw.	16	7.2			10 s			0.04	1.0	cloudy	A. K. Alderson
Cape May, New Jersey	30.00	762.0	30.03	762.7	28.0	— 2.2	94	n.	8	3.6			10 n			0.24	6.1	light snow	W. E. Smith.
Cape Mendocino, California	29.60	751.8	30.30	769.6	46	7.8	93	se.	10	4.5			10 s			0	0	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.26	768.6	30.28	769.1	46.0	7.8	80	nw.	13	5.8		0	0			0.27	6.9	clear	G. W. Davis.
Charleston, S. Carolina	29.98	761.5	30.04	763.0	43.1	6.2	83	nw.	13	5.8		0	0			0.08	2.0	clear	J. H. Smith.
Charlotte, N. Carolina	29.17	740.9	30.06	763.5	40.9	4.9	58	nw.	11	4.9			10 s		w.	0.04	1.0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.52	749.8	30.38	771.6	23.5	— 4.7	73	nw.	12	5.4			10 ks		w.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.22	615.2	30.50	774.7	16.9	— 8.4	65	nw.	15	6.7		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.04	752.8	30.39	771.9	1.2	—17.1	72	nw.	4	1.8		0	0			0.06	1.5	clear	Wm. Norrington.
Chincoteague, Virginia	29.95	760.7	29.97	761.2	33.0	0.6	100	ne.	11	4.9			10 s; fg		ne.	0.12	3.0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.70	754.4	30.39	771.9	12.0	—11.1	75	nw.	4	1.8		0	0			0.07	1.8	clear	L. Dunne.
Cleveland, Ohio	29.48	748.8	30.26	768.6	11.0	—11.7	80	n.	13	5.8			10 s		n.	0.11	2.8	cloudy	W. Line.
Columbus, Ohio	29.40	746.7	30.30	769.6	13.4	—10.3	82	nw.	9	4.0			10 s		nw.	0.21	5.3	cloudy	F. T. Williams.
Concho, Fort, Texas	28.63	727.2	30.65	778.5	24.2	— 4.3	100	w.	1	0.4		0	0			0	0	clear	O. E. King.
Custer, Fort, Montana	27.16	689.9	30.54	775.7	2	—16.7	75	se.	7	3.1		0	0			0	0	clear	W. J. Daily.
Davenport, Iowa	29.77	756.1	30.48	774.2	— 1	—18.3	51	nw.	4	1.8		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.53	648.5	30.51	774.9	21.4	— 5.9	85	calm	0	0			fg.			0	0	dense fog	J. Williams.
Dayton, Washington T'y	28.78	731.0	30.59	777.0	19.5	— 6.9	100	w.	1	0.4			10 s			0	0	cloudy	H. S. Blandford.
Deadwood, Dakota	25.59	650.0	30.54	775.7	19.0	— 7.2	80	sw.	1	0.4		0	0			0.01	0.3	clear	G. Kingsbury.
Delaware Breakwater, Del.	29.98	761.5	30.00	762.0	30.3	— 0.9	82	n.	17	7.6			10 s		n.	0.08	2.0	cloudy	G. A. Martin.
Denver, Colorado	25.00	635.0	30.52	775.2	16.0	— 8.9	70	s.	12	5.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.56	750.8	30.53	775.4	—11.2	—24.0	63	n	1	0.4		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.56	750.8	30.32	770.1	9.2	—12.7	55	w.	7	3.1			10 s			0.06	1.5	cloudy	N. B. Conger.
Dodge City, Kansas	27.75	704.8	30.50	774.7	20.5	— 6.4	80	w.	16	7.2		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.71	754.6	30.48	774.2	— 6	—21.1	52	nw.	1	0.4		0	1 s			0	0	clear	J. Harvey Smith
Duluth, Minnesota	29.58	751.3	30.38	771.6	— 6.5	—21.4	77	sw.	6	2.7		0	0			0	0	clear	E. R. Brace.
Eastport, Maine	30.02	762.5	30.09	764.3	— 0.5	—18.1	68	ne.	16	7.2			10 s		ne.	0.41	10.4	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.61	701.3	30.54	775.7	26.0	— 3.3	88	w.	12	5.4		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.61	675.9	30.49	774.4	29.2	— 1.0	80	se.	4	1.8		3 c	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.47	748.5	30.24	768.1	10.8	—11.8	84	nw.	1	0.4			10 s		nw.	0.10	2.5	cloudy	C. A. Shaw.
Escanaba, Michigan	29.57	751.1	30.29	769.4	— 4.3	—20.2	74	w.	5	2.2		0	6 k		nw.	0	0	fair	L. M. Pindell.
Fort Smith, Arkansas	30.10	764.5	30.60	777.2	13.0	—10.6	80	calm	0	0		0	0			inap.	inap.	clear	J. B. Campbell.
Galveston, Texas	30.52	775.2	30.56	776.2	32	0.0	68	n.	22	9.8		0	hz.			0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.62	752.3	30.33	770.4	7.0	—13.9	76	se.	4	1.8		0	8 ks		w.	0	0	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.44	646.2	30.34	770.6	30.8	— 0.7	75	n.	2	0.9		4 cs	0	sw.		0	0	fair	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	29.91	760.5	29.95	760.7	41.5	5.3	100	ne.	4	1.8	.....	.....	10 s	.....	e.	0.35	8.9	cloudy	R. M. Crawford.
Helena, Montana	26.30	668.0	30.68	779.3	0	—17.8	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. W. Morrison.
Huron, Dakota	28.97	735.8	30.51	774.9	2.8	—16.2	75	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.53	750.0	30.37	771.4	10.3	—12.1	65	n.	3	1.3	.....	.....	10 k	.....	n.	0.10	2.5	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.58	776.7	30.02	777.7	33.5	0.8	52	n.	26	11.6	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksonville, Florida	30.15	765.8	30.20	767.1	48.2	9.0	83	w.	1	0.4	.....	2 k	0	w.	.....	1.10	27.9	clear	J. W. Smith.
Keokuk, Iowa	29.82	757.4	30.52	775.2	— 0.5	—18.1	72	nw.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	F. Z. Gosewisch.
Key West, Florida	30.14	765.5	30.16	766.1	68	20.0	76	n.	22	9.8	.....	0	8 k	.....	nw.	0.03	0.8	cloudy	A. W. Browne.
Kittyhawk, North Carolina	29.97	761.2	29.99	761.7	39.0	3.9	89	ne.	11	4.9	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	Wesley Blake.
Knoxville, Tennessee	29.21	741.9	30.29	769.4	24.3	— 4.3	93	n.	11	4.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.62	752.3	30.46	773.7	— 7	—21.7	58	w	3	1.3	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.59	751.6	30.55	776.0	9.2	—12.7	45	s.	1	0.4	.....	0	10 s	.....	w.	inap.	inap.	cloudy	T. S. Outram.
Lewiston, Idaho	29.80	756.9	30.66	778.7	18.0	— 7.8	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. E. Butler.
Little Rock, Arkansas	30.22	767.6	30.55	776.0	20.0	— 6.7	84	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.83	757.7	30.23	767.8	52.6	11.4	37	ne.	8	3.6	.....	10 k	0	nw.	.....	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.80	756.9	30.39	771.9	14.0	—10.0	80	w.	8	3.6	.....	0	7 s	.....	nw.	0.03	0.8	fair	L. M. Dey.
Lynchburg, Virginia	29.31	744.5	30.03	762.7	36.0	2.2	53	nw.	12	5.4	.....	3 ck	7 s	w.	.....	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.52	749.8	30.22	767.6	4.0	—15.6	72	sw	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.94	760.5	29.95	760.7	45.0	7.2	94	w.	5	2.2	.....	0	8 k	.....	w.	0.40	10.2	cloudy	William Daly.
Maginnis, Fort, Montana	25.81	655.6	30.58	776.7	34.4	1.3	39	nw.	26	11.6	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.50	749.3	30.28	769.1	4.0	—15.6	72	w.	6	2.7	.....	4 ck	0	w.	.....	inap.	inap.	fair	J. Gilligan.
Memphis, Tennessee	30.15	765.8	30.51	774.9	22.0	— 5.6	88	nw.	4	1.8	.....	.....	10 s	.....	nw.	0.03	0.8	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.59	751.6	30.39	771.9	— 4.3	—20.2	77	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	S. W. Rhode.
Mobile, Alabama	30.36	771.1	30.40	772.1	37	2.8	65	n.	9	4.0	.....	6 k	4 s	nw.	nw.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.16	766.1	30.40	772.1	32	0.0	68	n.	14	6.3	.....	.....	10 s	.....	n.	0.03	0.8	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.35	745.5	30.46	773.7	—16	—26.7	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.40	591.3	30.03	762.7	12.0	—11.1	100	w.	4	1.8	.....	9 c	fg.	w.	w.	0.08	2.0	cloudy	Edwd. A. Beals.
Nashville, Tennessee	29.84	757.9	30.45	773.4	19.5	— 6.9	84	nw.	13	5.8	.....	.....	10 n	.....	nw.	0.02	0.5	light snow	L. N. Jesunofsky
New Haven, Connecticut	29.92	760.0	30.04	763.0	16.3	— 8.7	91	n.	11	4.9	.....	.....	10 n	.....	.....	0.37	9.4	light snow	J. H. Sherman.
New London, Connecticut	30.00	762.0	30.05	763.3	17.5	— 8.1	96	ne.	10	4.5	.....	.....	10 n	.....	ne.	0.31	7.9	light snow	J. G. Lynch.
New Orleans, Louisiana	30.37	771.4	30.43	772.9	38.5	3.6	59	n.	9	4.0	.....	0	6 k	.....	n.	0	0	fair	M. Herman.
New York, New York	29.86	758.4	30.05	763.3	19.1	— 7.2	100	n.	5	2.2	.....	.....	10 n	.....	.....	0.33	8.4	light snow	H. J. Penrod.
Norfolk, Virginia	29.95	760.7	29.98	761.5	40.5	4.7	73	n.	2	0.9	.....	.....	10 s	.....	n.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.40	695.9	30.52	775.2	12.9	—10.6	83	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	30.33	770.4	30.37	771.4	34.0	1.1	88	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.26	743.2	30.53	775.4	10.7	—11.8	76	s.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	A. Pollak
Oswego, New York	29.80	756.9	30.15	765.8	7.0	—13.9	95	n.	7	3.1	.....	.....	10 n	.....	.....	0.15	3.8	light snow	J. G. Linsley.
Palestine, Texas	30.04	763.0	30.62	777.7	22.8	— 5.1	53	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.35	770.9	30.38	771.6	39.7	4.3	64	nw.	12	5.4	.....	.....	10 s	.....	nw.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	29.94	760.5	30.05	763.3	25	— 3.9	88	n.	13	5.8	.....	.....	10 s	.....	n.	0.25	6.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	30.46	773.7	— 3.0	—19.4	58	n.	21	9.4	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.35	745.5	30.20	767.1	16.5	— 8.6	83	w.	8	3.6	.....	8 cs	0	w.	.....	0.21	5.3	cloudy	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. A. Garden.
Port Huron, Michigan	29.52	749.8	30.25	768.3	5.0	—15.0	87	nw.	4	1.8	.....	.....	10 s	.....	.....	0.19	4.8	cloudy	M. H. Perry
Portland, Maine	30.04	763.0	30.10	764.5	9.0	—12.8	76	n.	14	6.3	.....	.....	10 n	.....	n.	0.54	13.7	light snow	W. W. Eichelberger.
Portland, Oregon	30.29	769.4	30.36	771.1	35.6	2.0	68	e.	8	3.6	.....	3 ck	0	sw.	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.99	634.7	30.37	771.4	26	— 3.3	80	se.	2	0.9	.....	hz.	0	.....	.....	0	0	dense haze	N. D. Lane.
Provincetown, Mass.	29.98	761.5	30.01	762.2	26	— 3.3	90	ne.	10	4.5	.....	.....	10 n	.....	ne.	0.35	8.9	light snow	C. N. Kitchel.
Red Bluff, California	29.95	760.7	30.32	770.1	42.5	5.8	78	n.	6	2.7	.....	.....	10 ks	.....	n.	0	0	cloudy	J. R. Williams.
Rio Grande City, Texas	30.49	774.4	30.74	780.8	33.5	0.8	68	nw.	3	1.3	.....	0	1 ks	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y.	29.46	748.3	30.18	766.6	8	—13.3	87	nw.	8	3.6	.....	.....	10 s	.....	.....	0.52	13.2	cloudy	E. W. McGann.
Roseburg, Oregon	29.76	755.9	30.33	770.4	30.7	— 0.7	92	ne.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. Nanry.
Sacramento, California	30.22	767.6	30.30	769.6	45.5	7.5	83	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	J. A. Barwick
St. Louis, Missouri	29.88	758.9	30.54	775.7	4.3	—15.4	91	nw.	12	5.4	.....	0	0	.....	.....	0.02	0.5	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.45	748.0	29.48	748.8	18	— 7.8	100	ne.	.....	.....	2	.....	10 s	.....	.....	0	0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.52	749.8	30.46	773.7	—12.0	—24.4	100	calm	0	0	.....	.....	10 s	.....	nw.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.46	748.3	30.44	773.2	— 8.5	—22.5	80	nw	2	0.9	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	26.10	662.9	30.67	779.0	15.4	— 9.2	51	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.12	765.0	30.20	767.1	48.0	8.9	68	n.	3	1.3	.....	2 ck	0	w.	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.55	750.6	30.27	768.8	10	—12.2	74	nw.	10	4.5	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.02	762.5	30.05	763.3	22.7	— 5.2	73	n.	16	7.2	.....	.....	10 n	.....	.....	0.14	3.6	light snow	Y. P. Chappel.
Sanford, Florida	30.12	765.0	30.17	766.3	51.0	10.6	86	nw.	12	5.4	.....	.....	10 ks	.....	nw.	0.50	12.7	cloudy	J. B. Marbury
San Francisco, California	30.22	767.6	30.28	769.1	49.0	9.4	87	n	4	1.8	.....	10cs ck	0	sw.	.....	0	0	cloudy	N. Gorom.
Savannah, Georgia	30.04	763.0	30.14	765.5	46	7.8	51	nw.	10	4.5	.....	0	8 ks	.....	w.	0.18	4.6	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.66	677.2	30.52	775.2	23	— 5.0	73	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.34	770.6	30.58	776.7	20.5	— 6.4	74	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.98	761.5	30.06	763.5	48	8.9	66	e.	27	12.1	.....	.....	10 s	.....	e.	0	0	cloudy	F. W. Fickett.
Smithville, North Carolina	29.94	760.5	29.98	761.5	46.0	7.8	93	w.	4	1.8	.....	.....	10 s	.....	w.	0.15	3.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.47	723.1	30.61	777.5	0.5	—12.5	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.77	756.1	30.50	774.7	4.7	—15.2	82	nw.	2	0.9	.....	0	0	.....	.....	0.12	3.0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.42	696.5	30.56	776.2	23.0	— 5.0	88	n.	3	1.3	.....	0	3 s	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.22	767.6	.....	.....	39.8	4.3	68	e.	26	11.6	.....	2 cs	0	nw.	.....	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.59	700.8	30.42	772.7	26	— 3.3	80	se.	.....	.....	2	5 cs	0	.....	.....	0	0	fair	R. C. Lord.
Toledo, Ohio	29.57	751.1	30.31	769.9	8.5	—13.1	64	w	2	0.9	.....	7 k	0	w.	.....	0.11	2.8	fair	A. Buell.
Unalaska, Alaska	28.73	729.7	28.75	730.2	37	2.8	89	e.	14	6.3	.....	.....	8 n	.....	.....	2.07	52.6	light rain	Samuel Applegate.
Vicksburg, Mississippi	30.22	767.6	30.49	774.4	32.0	0.0	68	nw.	12	5.4	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	C. Dill.
Washington, D. C.	29.93	760.2	30.05	763.3	30.2	— 1.0	93	nw.	10	4.5	.....	.....	10 s	.....	nw.	0.12	3.0	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.39	670.3	30.52	775.2	9	—12.8	100	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Wilmington, N. Carolina	29.93	760.2	29.99	761.7	46.5	8.1	86	nw.	5	2.2	.....	.....	10 s	.....	.....	0.26	6.6	cloudy	L. H. Albrecht.
Yankton, Dakota	29.08	738.6	30.50	774.7	5.3	—14.8	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	30.06	763.5	30.21	767.3	49.7	9.8	28	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behringsisland, Kamchatka	29.79	756.7	29.81	757.2	23.0	— 5.0	67	s.	8	3.6	.....	0	5 n	.....	.....	0.12	3.0	snowing	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	.....	nw.	.....	.....	2	0	3 ck	.....	ne.	0	0	fair	W. R. Jackson.
Bogota, U. S. C.	22.03	559.6	.....	.....	50.9	10.5	83	calm	0	0	.....	0	0	.....	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	30.12	765.0	30.28	769.1	—44	—42.2	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.14	765.5	68.0	20.0	87	calm	0	0	.....	0	1 s	.....	e.	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	78	25.6	82	e.	.....	.....	2	5 k	7 ps	e.	.....	0	0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.44	747.8	30.00	762.0	79	26.1	89	calm	.....	.....	0	.....	10 ks	.....	calm	blank	blank	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	92	ne.	.....	.....	3	.....	.....	.....	ne.	0	0	clear	Earl Flint.
York Factory, B. A.	29.71	754.6	29.78	756.4	—21.0	—29.4	.....	sw.	27	12.1	.....	.....	10 n	.....	sw.	0.05	1.3	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.96	760.9	29.97	761.1	79.5	26.4	82	n.	13.0	5.8	.....	0	7 k	.....	n.	.....	.....	hazy	P. Fasiani.
Naos, Bay of Panama	29.95	760.7	30.02	762.4	75.2	24.0	86	n.	.....	.....	4	0	1 ck	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 40° 18′, W. 70° 54′ †	29.98	761.5				ne.			4		8		ne.	o	o	mod.	var.	overcast
S. S. Alleghany, Baltimore, Md †	30.09	764.3	28	— 2.2		nne.			2		10		n.	12 h'r	12 h'r			cloudy.
Schr. Anna A. Holton, N. 36° 02′, W. 71° 09′ *†	29.92	760.0	62	16.7		wnw.			5		5		w.	14 h'r	14 h'r	r'gh	w.	fair.
S. S. Arizona, N. 41° 29′, W. 65° 51′	29.94	760.5	32	0.0		ne.			3		10		ene.	o	o	high	con.	overcast.
S. S. British Prince, N. 51° 20′ W. 29° 12′			47	8.3		w.			7		10		w.	7 h'r	7 h'r	h'vy	w.	overcast.
S. S. Belgenland, N. 45° 34′, W. 50° 24′ *†	29.50	749.3	34	1.1	79	w			6				w.	rain	rain	r'gh	w.	overcast.
S. S. City of Augusta, N. 37° 04′ W. 74° 40′			41	5.0		ese.			6		10		ne.					rainy.
S. S. Canada, (Br) N. 48° 36′, W. 19° 42′ †	30.58	776.7	57	13.9		wsw.			5		5		w.	sh'rs	sh'rs	mod.	sw.	fair.
S. S. Canada, (Br) N. 46° 01′, W. 48° 28′	29.53	750.1	39.2	4		sw.			6		10		sw.			hv'y	sw.	covered.
Bk. Diamant, N. 40° 06′, W. 70° 08′	29.97	761.3	36.9	2.7	87	nne.			5		10		n.			3	sse.	cloudy.
S. S. Dorian, N. 35° 18′, W. 65° 30′	29.89	759.2	68	20.0		s			7		10		sw.	o	o	r'gh	w.	overcast.
S. S. Denmark, N. 45° 50′, W. 48° 10′ †	29.54	750.3	42	5.6	100	s.			8		9		s.	12 h'r	12 h'r	h'vy.	ssw.	light rain.
S. S. Daniel Steinmann, N. 48° 35′, W. 44° 21′ †	29.69	754.1	52	11.1		se.			9		9		sw.	o	o	con.	sw.	raining.
S. S. Gen. Werder, N. 50° 13′, W 15° 55′	30.53	775.4				wsw.			5		5		wsw.	o	o	h'vy	w.	fair.
Bg. Gipsy Queen, N. 37° 19′ W. 73° 50′						ne.			2		9		nw	o	o	short	ne.	overcast.
S. S. Iowa, N. 47° 07′, W. 41° 48′			49	9.4		s.			5		8		s.	1 h'r	1 h'r	long	wnw.	misty.
S. S. Llandaff City, N. 48° 02′, W. 39° 51′*†	29.70	754.4	46	7.8		s.			6		10		sw.	o	o	h'vy	w.	stormy.
S. S. Lessing, N. 40° 28′, W. 71° 00′			37	2.8		ne.			5		10		ne.	o	o	mod.	ne.	hazy.
S. S. Labrador, N. 44° 10′, W. 56° 31′ *†	29.65	753.0	32.0	0.0		wnw.			6		10		ssw.			large	s.	raining.
S. S. Main, N. 40° 52′, W. 67° 46′	29.86	758.4	35.6	2.		nne.			3		8		nne.	2 h'r	2 h'r	mod.	nne.	overcast.
Schr. Maggie Abbott, N. 38° 30′, W, 72° 54′						nnw.			5		6		w.			cross		clear.
Bk Matthias, N. 34° 49′. W. 69° 01′*†	29.85	758.2	59	15.0		wnw.			4		8		nw.	2 h'r	2 h'r	4	wsw.	clearing.
S. S. Neckar, N. 48° 40′, W. 20° 25′	30.47	773.9	55.0	12.8	81	wsw.			4		2		w.	o	o	long	sw.	clear.
S. S. Nurnberg, N. 44° 29, W. 50° 05′	29.53	750.0	42.8	6 0		ssw.			8		10		ssw.	12 h'r	12 h'r	high	sw.	rainy.
S. S. Oregon, (Br) N. 44° 27′, W. 62° 32′			22	— 5.6		nnw.			6		8		nnw.			mod.	n.	cloudy.
S. S. Pavonia, Queenstown, Ireland	30.38	771.6	53	11.7	86	calm			0		0			o	o	sm'h		clear.
S. S. Picqua, N. 39° 39′, W. 60° 00′ *†	29.80	756.9	46	7.8	?	nnw.			4				w.	light	light		var.	cloudy.
S. S. Rhein, N. 47° 56′, W. 37° 43′						wsw.			4		8		w	4 h'r	4 h'r	r'gh	w.	squally.
S. S. Romano, New York Harbor, N. Y			16	— 8.9		nw.			3		10			snow	snow			snowing.
Bk. Rosina, N. 34° 30′, W. 71° 30′	29.95	760.7	65	18.3		nw.			3		5		nw.	12 h'r	12 h'r	h'vy	sw.	fair.
S. S. State of Georgia, N. 45° 07′, W. 48° 51′			44	6.7		ssw.			8–9		10			5 h'r	5 h'r	sharp	ssw.	heavy rain.
S. S. Salier, N. 40° 55′, W. 66° 30′ *	29.95	760.7				nne.			6		10		n.	8 h'r	8 h'r	cross	var.	cloudy.
Bgt. Sunlight, N. 21° 10′, W. 65° 48′ †	30.19	766.8				ne.			3		4		ene.	o	o	sm'h		fair.
S. S. Thingvalla, N. 55° 05′, W. 32° 10′†	29.56	750.8	33.8	1		wsw.			9		8		wsw.	5 h'r	5 h'r	h'vy	sw.	cloudy.
S. S. Valencia, La Guayra, Venezuela†	30.06	763.5	75.5	24.2	77	ne.			2		1		ene.	o	o	light	ne.	clear
S. S. Westphalia, N. 43° 42′. W 53° 03′			45	7.2	100	n.			6		10		nw.	10 h'r	10 h'r	cross	nw.	misty.
S. S. Zaandam, N. 47° 59′, W. 37° 16′			59.9	15.5	85	var.			5		8		var.	10 h'r	10 h'r	cross	var.	cloudy.
Bk. Ariadne, New York, N. Y	30.01	762.2	23	— 5.0		n.			4		10		n.	10 h'r	10 h'r			cloudy.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I	30.22	767.6	68	20.0		ne.			1		2		ne.	o	o			clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.17	766.3				wsw.			1		3		wsw.	o	o	sm'h		misty.
Bk. Aureola, N. 8° 35′, W. 49° 20′			85	29.4		ne.			6		5		ne.	o	o	h'vy	cross	fair.
U. S. S. Alliance, Santiago de Cuba, Cuba, W. I	30.16	766.1	74	23.3	86	ne.			1		0			o	o	sm'h		clear
S. S. Bothnia, N. 43° 10′, W. 52° 53′	29.49	749.0	53	11.7		ssw.			6		10		ssw.	8 h'r	8 h'r	r'gh	ssw.	dense fog.
S. S. Chalmette, N. 28° 58′, W. 79° 40′†	30.11	764.8	61	16.1		nw.			6		10		se.	½h'r	½hr	r'gh	nw.	cloudy.
S. S. Dominion, N 50° 50′, W. 26° 20′*†	30.18	766.6	50	10.0		wsw.			6		10		sw			rg'h	sw.	cloudy.
Schr. Ellen Crusoe, N. 30° 25′ W. 71° 30′*†	30.10	764.5				sw.							wsw.	1 h'r	1 h'r	long		cloudy.
S. S. Grecian, Havre, France	30.52	775.2	37	2.8	90	sw.			2		10			o	o			overcast.
Bg. John Welsh, jr, N. 29° 50′, W. 87° 20′						nnw.			6		5		n.			sm'h		fair.
S. S. Muriel, Trinidad, W. I	30.07	763.8	80	26.7		ene.			3		0			o	o			clear.
S. S. Ontario, N. 51° 21′, W. 19° 42′	30.22	767.6	52	11.1		wsw.			7		4		wsw.	4 h'r	4 h'r	cross	sw.w	squally.
Bk. Saga, N. 25° 39′, W. 62° 38′ *†	30.22	767.6	76	24.4		ese.			2		1		ese.	o	o	long	n.	clear.
S. Storm King, N. 43° 23′, W. 28° 49 *†	30.60	777.2				ese.			3		2		se.	o	o	mod.	w.	fine.
S. S. Salerno, N 50° 58. E 1° 07′ †	30.60	777.2	45	7.2		w			3		10		wsw.	o	o	mod	w.	hazy.
S. S. St. Laurent, Havre, France	30.60	777.2	36.5	2.5		ne.			2					o	o			misty.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.24	768.1	73	22.8	81	calm			0		2		calm	o	o			clear.
U. S. S. Tennessee, N. 9° 43′, W. 79° 40′	29.97	761.2	79	26.1	82	n.	18	8.0			8		ne.	light	light	mod.	n.	cloudy.
U. S. S. Vandalia, Port of Spain, Trinidad, W. I	30.08	764.0	77	25.0	73	ne.			1		5		ne.					fair.
S. S. Venetian, N. 45° 14′, W. 47° 32′*	29.70	754.4	50	10.0		s.			8		10			8 h'r	8 h'r	h'vy	cross	raining.
S. S. Westernland, Antwerp, Belgium	30.56	776.2	45	7.2		wsw.			2		10		wsw.	o	o			foggy.
S. S. Zeeland, N. 50° 24′, W. 2° 26′			55	12.8		w.			5		10		w.	o	o	sm'h		dull.
S. S. City of Berlin, N. 51° 22′, W. 20° 40′	30.27	768.8	51	10.6		wsw.			6							high	wsw.	cloudy.
S. Oreola, N. 10° 52′, W. 26° 15′						ne.			6		0			o	o	sm'h		clear.
U. S. Navy Yard, Portsmouth N. H*	30.14	765.5	8	—13.3	78	ne.	6	2.7			10		ne.					snowing.
U. S. S. Kearsarge, Leghorn, Italy	30.43	772.9	53	11.7	73	n.			1		0							clear.
U. S. S. Lancaster, Leghorn, Italy			56	13.3	94	calm			0		0			o	o	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	30.03	762.7	17	— 8.3	100	nne.			4		10					sm'h		snowing.
U. S. S. Quinnebaug, Leghorn, Italy	30.43	772.9	53	11.7	73	nne.			1		0					sm'h		clear.
U. S. S. Shenandoah, N. 17° 33′. W. 24° 45′ *	30.16	766.1	70	21.1	85	ene.			4		8					sm'h	ene.	fair.
U. S. S. Trenton, Marseilles, France	30.53	775.4	52	11.1	73	sw.			0–1		2		calm					clear.
H. M. S. Alexandra, Malta, Mediterranean	30.43	772.9	56	13.3	63	n.			1		1		n.					blue sky.
H. M. S. Alecto, N. 5° 03′. W. 4° 30′	29.86	758.4	86	30.0		wnw.			1		3		wsw.			2	sw.	d. clouds
H. M. S. Comus, N. 17° 04′. W. 25° 00′	30.11	764.8	71	21.7	71	n.			4		6					4	nne.	misty.
H. M. Dockyard, Bermuda, Atlantic	30.02	762.5	67	19.4	89	sw.			4		8		ssw.					d. clouds.
H. M. S. Minotaur, Palma, Majorca, Spain	30.61	777.5	53.5	11.9	77	calm			0		0							misty.
H. M. S. Tyne, N. 1° 49′, W. 18° 55′	29.98	761.5	79	26.1	82	calm			0		2		nne.			2	nne.	d. clouds.
H. M. S. Woodlark, Port Said, Egypt	29.99	761.7	55	12.8	68	wnw.			6		9		wnw.					raining.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.87	758.6	82.4	28.0	81	sw.			4		0			o	o	2	sw.	
S. S. British Crown, N. 42° 46′, W. 58° 05′†	29.58	751.3	42	5.6		nnw.			4		10?			8 h'r	8 h'r	high	sw.	clear?
S. S. Ohio, (Am) N. 40° 15′. W. 69° 30′			36	2.2	90	nne.			4		10		ne.	20 h'r	20 h'r	mod.	nne.	cloudy.
S. S Pennsylvania, Philadelphia, Pa †	30.03	762.7	25	— 3.9	62	ne.			4		10			7 h'r	7 h'r			raining.
S. S. Polynesian, N. 45° 31′, W. 58° 37′	29.74	755.4	26	— 3.3		n.			4		10			11h'r	11h'r	mod.	ne.	overcast.
S. S. Prussian, N. 54° 08′, W. 20° 56′	30.00	762.0	48	8.9		wsw.			8		8		w.	2 h'r	2 h'r	h'vy	w	drizzling.
S. S. Scandinavian, N. 43° 01′, W. 58° 19′	29.64	752.8	32	0.0		n.			6		10		n.	driz.	driz.	high	cross	drizzling.
S. S. Sardinian, N. 44° 31′, W. 62° 17′			13	—10.6		nnw.			4		10		nw.	14 h'r	14 h'r	r'gh	nne.	overcast.
S. S. Scythia, N. 43° 55′, W. 45° 52′			56	13.3	100	s.			4		10		ssw.	3 h'r	3 h'r	mod.	s.	threatening
S. S. Bohemia, Hamburg, Germany						w.			3		8?		w.	o	o			clear?
S. S. Frisia, N. 43° 50′ W. 56° 00′	29.52	749.8	40	4.4		nnw.			7		10		nw.	14 h'r	14 h'r	h'vy	sw.	covered.
S. S. Archimedes, (Br) N. 46° 55′, W. 29° 07′	30.48	774.2				sw.			5		2		sw.	o	o	long	wnw.	fine.
S. S. Hevelius, Liverpool, Eng			41	5.0		nw.			6		4?		nw.	o	o			cloudy?
S. S. Archimede, (It) Genoa, Italy †	30.56	776.2	62	16.7		se.			1		0			o	o			clear
S. S. Texas, N. 29° 10′, W. 59° 06′*†	30.20	767.1	73	22.8	85	wsw.			2		0			o	o	h'vy	sm'h	clear.
S. S. Erin, London, Eng	30.51	774.9	49	9.4		sw.			6		3		sw.	o	o			fine.
S. S. Habsburg, N. 50° —′. W. 9° —′			48	8.9	85	s.			2		10		w.	o	o	light	w.	covered.
S. S. Strassburg, N. 39° 39′, W 12° 48′	30.68	779.3	57.5	14.2	63	ne.			3		10		ne.	o	o	3	ne.	cloudy.
S. S. Rhyniand, N. 40° 31′, W. 68° 55′	29.97	761.2	34	1.1	79	ne.			6		10		ne.	o	o	r'gh	ne.	cloudy.
S. S. Switzerland, N. 50° 28′, W. 22° 15′ *†	30.41	772.4				sw.			5		2		wsw.	4 h'r	4 h'r	long	wsw.	fair.
S. S. Waesland, New York Harbor, N. Y	30.08	764.0	19	— 7.2		nne.			4		10		nne.	10 h'r	10 h'r			snowing.
S. S. P. Caland, N. 44° 51′, W. 50° 33′	29.32	744.7	47.5	8.6	94	sw.			6		10		wsw.			3	wnw.	rain squalls
S. S. W. A. Scholten, N. 40° 54′ W. 68° 36′					?	ne.			6		4		ne.	4 h'r	4 h'r	4	ene.	squally.
S. S. State of Nevada, N. 55° 16′, W 11° 18′*†	30.02	762.5	49	9.4		wsw.			7		8		wnw.	shr's	shr's	h'vy	wsw.	cloudy.
S. S. Saxon, N. 41° 40′, W. 69° 57′			30	— 1.1		nne.			4		10							snowing
S S. Celtic, Liverpool, Eng			50	10.0		sw.			6		5		wsw.	o	o			fine.
S. S. Marengo, N. 49° 52′, W. 6° 35′*†	30.46	773.7	51	10.6		ssw.			4		10		sse.	2 h'r	2 h'r	rg'h	ssw.	foggy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bg. Alcira, N. 24° 32′, W. 62° 49′	30.20	767.1	74	23.3	.....	ese.	.....	.....	3	.....	2	.....	var.	0	0	mod.	var.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.53	775.4	59	15.0	65	ne.	.....	.....	2	.....	2	.....	.....	0	0	.....	.....	clear.
Bgt. Achsah, Clementsport, N. S†	30.02	762.5	5	—15.0	.....	ne.	.....	.....	2	.....	8	.....	ne.	6 h'r	6 h'r	.....	.....	cloudy.
Bk. Bayonnaise, N. 33° 21′, W. 54° 05′†	30.02	762.4	68.0	20.0	.....	sw.	.....	.....	4	.....	6	.....	wsw.	0	0	sm'h	sw.	fair.
Bk. Chas Stewart, N. 20° 00′, W. 36° 18′*†	30.28	769.1	74	23.3	.....	ne.	.....	.....	6	.....	2	.....	e.	0	0	mod.	e.	fair.
Schr. C. R. Flint, N. 37° 55′; W. 69° 00′†‡	29.84	757.9	50	10.0	.....	ne.	.....	.....	2	.....	10	.....	wnw.	5 h'r	5 h'r	r'gh	var.	cloudy.
Schr. Clotilde, Key West, Fla†	30.14	765.5	71	21.7	.....	n.	.....	.....	6	.....	8	.....	nw.	1 h'r	1 h'r	.....	.....	cloudy.
Bk. Celestina, N. 31° 46′, W. 15° 50′*†	30.56	776.2	.....	.....	.....	ne.	.....	.....	3-4	.....	10	.....	ne.	0	0	light	ne.	cloudy
Bkt C. S. Bushnell, N. 38° 00′, E. 2° 02′	30.60	777.2	.....	.....	.....	ene	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	
S. Dora, N. 63° 45′, W. 5° 25′	.....	.....	.....	.....	.....	se.	.....	.....	3	.....	6	.....	e.	6 h'r	6 h'r	r'gh	ne.	cloudy.
S. E. J. Spicer, N. 51° 52′, W. 6° 25	30.41	772.4	51	10.6	93	ssw.	.....	.....	6	.....	10	.....	var.	10 h'r	10 h'r	mod.	ssw.	hazy.
S. E. B. Sutton, N. 42° 50′, W. 30° 20′ *†	30.60	777.2	60	15.6	88	se.	.....	.....	2	.....	3	.....	w.	0	0	mod.	w.	fair.
Bk. Fred W. Carlon, N. 37° 40′, W. 72° 40′	.....	.....	.....	.....	.....	ne.	.....	.....	6	.....	10	.....	ne.	24 h'r	24 h'r	r'gh	var.	threatening.
S. Hedwig, N. 36° 23′, W. 2° 14′	30.57	776.4	55.4	13.0	90	ne.	.....	.....	2	.....	8	.....	ne.	0	0	2	e.	fine.
Bk. Heinrich & Tonio, N. 49° 09′, W. 9° 30′	.....	.....	54	12.2	93	wsw.	.....	.....	3	.....	10	.....	w.	8 h'r	8 h'r	light	w.	rainy.
Bk. Hattie G. McFarland, Ship Island, Miss	.....	.....	.....	.....	.....	nnw.	.....	.....	5	.....	8	.....	n.	0	0	.....	.....	
S. Henry, N. 40° 48′, W. 23° 09	.....	.....	61.5	16.4	.....	ssw.	.....	.....	3	8 cs	.....	w.	.....	.....	.....	3	ssw.	cloudy.
Bk. Idaho, N. 25° 32′, W. 71° 15′ *†	30.26	768.6	.....	.....	.....	s.	.....	.....	3	.....	2	.....	wsw.	rain	rain	mod.	se.	fair.
Bg. John Wesley, Havana, Cuba, W.I	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. John L. Thomas, Hobbles Cays, C. A †	30.08	764.0	78	25.6	82	nne.	.....	.....	3	.....	2	.....	ne	0	0	light	ne.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.12	765.0	.....	.....	.....	ene.	.....	.....	1	.....	2	.....	ene.	½ h'r	½ h'r	sm'h	.....	light rain.
S. S. Laurel, Manatee river, Fla†	30.24	768.1	57	13.9	.....	n.	.....	.....	3-4	.....	10	.....	n.	0	0	.....	.....	cloudy.
S. S. Madrid, Thames river, Eng†	30.57	776.5	44	6.7	84	sw.	.....	.....	5	.....	6	.....	sw.	0	0	.....	.....	fair.
S. Parker M. Whitmore, N. 2° 00′, W. 28° 00′ *†	29.96	761.0	76	24 4	.....	calm	.....	.....	0	.....	10	.....	.....	5 h'r	5 h'r	sm'h	.....	rainy.
S. S. P. de Satrastegui, N. 30° 29′ W. 66° 12′	.....	.....	.....	.....	.....	wsw.	.....	.....	7	.....	10	.....	.....	10 h'r	10 h'r	cross	sw.	hazy.
Bg. Rising Sun, N. 26° 42′, W. 60° 10′†.	30.20	767.1	75	23.9	.....	sse.	.....	.....	2	.....	3	.....	sse.	0	0	long	se.	clear.
Bk. Rosalie, N. 37° 43′, W. 34° 38*†	30.43	772.9	.....	.....	.....	sse.	.....	.....	4	.....	0	.....	.....	¾ h'r	¾ h'r	light	nnw.	clear.
S Salisbury, N. 24° 05′, W. 28° 08′	30.38	771.6	69.1	20.6	77	ene.	.....	.....	6	.....	5 k	.....	ene.	½ h'r	½ h'r	r'gh	var.	fair.
S. S. City of Alexandria, N. 31° 28′, W. 76° 30′ *†	29.94	760.5	64	17.8	.....	wnw.	.....	.....	5	.....	.....	.....	.....	.....	.....	h'vy	nw.	misty.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Platta*	30.18	766.6	66	18.9	79	se	.....	.....	3	.....	2	.....	se.	.....	.....	sm'h	se.	clear.
U. S. S. Pinta, S. 18° 54′, W. 39° 05′	30.08	764.0	83	28.3	78	ene.	.....	.....	1	.....	5	.....	e.	.....	.....	sm'h	.....	fair.
H. M. S. Amethyst, Maldonado Bay, Uruguay	30.08	764.0	68	20.0	79	se.	.....	.....	3	.....	4	.....	.....	.....	.....	2	se.	d. clouds.
H. M. S. Boadicea, St. Helena, Africa	30.05	763.3	78	25.6	.....	ese.	.....	.....	1-3	.....	5	ese.	.....	.....	.....	.....	.....	squally.
H. M. S. Opal, S. 24° 04′, E. 14° 22′	29.95	760.7	63.5	17.5	88	sse.	.....	.....	3	.....	2	sse.	.....	.....	.....	5	ssw.	blue sky.
S. S. Sirius, Santos, Brazil	29.95	760.7	.....	.....	.....	sse.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. Daphne, S. 15° 13′, W. 32° 08′ *†	29.92	760.0	78	25.6	91	calm	.....	.....	0	.....	8	.....	ese.	4 h'r	4 h'r	sm'h	se.	light rain.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.10	764.5	84	28.9	.....	nw.	.....	.....	4	.....	2	.....	nw.	0	0	.....	.....	clear.
Bkt. Levanter, S. 19° 12′, W. 38° 06′*	30.06	763.5	86	30.0	.....	e.	.....	.....	3	.....	3	.....	e	0	0	light	ene.	fair.
S. St. David, S. 39° 29′, W. 29° 20′*†	29.77	756.1	60	15.6	82	wnw.	.....	.....	5	.....	9	.....	nw.	3 h'r	3 h'r	h'vy	nw.	squally.
S. David Stewart, Pernambuco, Brazil †	29.87	758.7	86	30.0	.....	ese.	.....	.....	4	.....	5	.....	se.	0	0	.....	.....	
Bk Godeffroy, S. 45° 34′, W. 40° 47′	29.53	750.0	45.5	7.5	71	ssw.	.....	.....	7	.....	7	.....	ssw.	17½	hours	long	var.	squally.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.90	759.4	29.8	— 1.2	50	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Adams, Sitka, Alaska †.	30.06	763.5	40	7.8	92	e.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Alert, N. 15° 30′, E. 175° 54′†	29.95	760.7	77	25.0	86	ene.	.....	.....	4	.....	2	.....	ne.	.....	.....	mod.	ne.	clear
U. S. S. Essex, Canton, China	30.22	767.6	67	19.4	79	se.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Juniata, Shanghai, China	30.60	777.2	35	1.7	80	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Monocacy, Shanghai, China	30.62	777.7	35	1.7	80	nne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Richmond, Shanghai, China	30.62	777.7	37	2.8	81	nne.	.....	.....	2	.....	2	.....	ne.	0	0	.....	.....	clear.
H. M. S. Audacious, Hong Kong, China	30.21	767.3	63	17.2	78	ne.	.....	.....	3-5	.....	5	ne.	.....	.....	.....	.....	.....	squally.
H. M. S. Cleopatra, off Amoy, China	30.30	769.0	57	13.9	77	ene.	.....	.....	3	.....	0	.....	.....	.....	.....	sli't	.....	blue sky.
H. M. S. Champion, Shanghai, China	30.66	778.7	34	1.1	100	ese.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.88	758.9	84.1	28.9	66	nnw.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	.....	misty.
H. P. M. S. Pamega, Macao, China	30.28	769.1	04.0	17.8	72	ese.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	blue sky.
S. S. Newbern, N. 27° 08′, W. 110° 48′*†	30.20	767.1	58	14.4	58	nnw.	.....	.....	5	.....	0	.....	.....	0	0	small	nnw.	clear.
S. S. Columbia, N. 43° 28′, W. 124° 35′*†	30.22	767.6	47	8.3	85	ese.	.....	.....	2	.....	6	.....	ssw.	.....	.....	sm'h	ese.	fair.
S. S. Oregon, Portland, Oregon †	30.36	771.1	35	1.7	70	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Willamette, Astoria, Oregon †	30.36	771.1	38	3.3	100	e.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Alameda, N. 26° 46′, W. 146° 05′†	30.20	767.1	65	18.3	94	ene.	.....	.....	4	.....	3	.....	ene.	0	0	mod.	ene.	clear.
S. S. Ancon, Point Arguello, Cal †	30.22	767.6	55	12.8	87	nne.	.....	.....	3	.....	0	.....	.....	0	0	light	wnw.	clear.
S. S. City of Chester, off Point Arenas, Cal †	30.28	769.1	51	10.6	79	se.	.....	.....	4	.....	10	.....	.....	.....	.....	long	w.	
S. S. Orizaba, N. 37° 12′, W. (119 ?) 40′ †	30.31	769.9	50	10.0	86	sw.	.....	.....	2	.....	10	.....	sw.	0	0	mod	wsw.	overcast.
S. S. Queen of the Pacific, Seattle Wash. Ter†	30.40	772.1	36	2.2	90	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	.....	foggy.
S. S. State of California, San Francisco, Cal †	30.29	769.4	47	8.3	85	n.	.....	.....	1	.....	5	.....	n.	.....	.....	.....	.....	fair.
S. S. City of Pekin, N. 45° 46′, W. 156° 20′	.....	.....	45	7.2	92	ese.	.....	.....	6	.....	10	.....	se.	.....	.....	r'gh	se.	rainy.
S.S. City of Rio de Janeiro, N 28° 27′, W. 144° 57′†	30.27	768.8	67	19.4	.....	e.	.....	.....	5	.....	5	.....	ene.	.....	.....	small	w.	fair.
S. S City of Sydney, N. 16° 54′, W. 159° 35′ *†	29.96	761.0	76	24.4	86	e.	.....	.....	4	3 ck	.....	ne.	.....	.....	.....	mod.	ne.	clear.
S. S. Granada, N 8° 04′ W. 79° 41′†	29.98	761.5	80	26.7	82	n.	.....	.....	6	.....	3	.....	n.	2 h'r	2 h'r	light	n.	clear.
S. S. San Blas, N. 23° 10′, W. 110° 21′ †	30.06	763.5	66	18.9	79	sse.	.....	.....	4	.....	0	.....	.....	0	0	small	var.	clear.
Bk. Alpheus Marshall, N. 14° 17′, E. 152° 50′*†	29.76	755.9	80	26.7	82	e.	.....	.....	3	.....	1	.....	e.	0	0	light	n.	clear.
S. S. Benalder, N. 19° 30′, E. 114° 45′*	30.12	765.0	73	22.8	85	ene.	.....	.....	6	.....	7	.....	ene.	sh'rs	sh'rs	high	ne.	hazy.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 15° 08′, W. 89° 20′	29.98	761.5	71	21.7	95	e.	.....	.....	3	.....	2	.....	e.	0	0	sm'h	.....	clear.
U. S. S. Lackawanna, S. 15° 45′, W. 79° 19′	29.96	761.0	73	22.8	70	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	s.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.08	764.0	68	20.0	100	se.	.....	.....	2	.....	10	.....	se.	.....	.....	mod.	w.	foggy.
U. S. S. Wachusetts, Callao, Peru.*†	30.01	762.2	69	20.6	90	se.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	foggy.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.45	748.0	59	15.0	88	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	overcast.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.89	759.2	66	18.9	.....	nne.	.....	.....	2	.....	.....	.....	.....	.....	.....	2	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.33	745.0	62	16.7	100	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
H. M. S. Sylvia, Sandy Point, Patagonia	28.42	721.9	50	10.0	86	n.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Australia, Sydney, N. S. W	29.64	752.8	70	21.1	.....	sse.	.....	.....	3	.....	3	.....	e.	2 h'r	2 h'r	.....	.....	drizzling.
S. S. George S. Homer, S. 39° 42′, W. 124° 57′*†	30.15	765.8	.....	.....	.....	ese.	.....	.....	3	.....	8	.....	se.	12 h'r	12 h'r	cross	var.	cloudy.
S. Ismir, S. 19° 46′, W 75° 54′*	30.25	768.3	.....	.....	.....	ssw.	.....	.....	1	.....	0	.....	ssw.	0	0	long	ssw.	fair.
S. St. Francis, S. 25° 03′, W. 89° 00′ *†	30.22	767.6	72	22.2	71	nne.	.....	.....	2	.....	4	.....	se.	0	0	sm'h	s.	fair.
S. Grecian, S. 37° 49′, W. 127° 30′ †	29.98	761.5	62	16.7	72	ese.	.....	.....	6	.....	9	.....	se.	0	0	mod.	sse.	cloudy.
S. Henry Failing, S. 41° 16′, W. 130° 42′*†.	30.08	764.0	58	14.4	?	ese.	.....	.....	3	.....	10	.....	ese.	0	0	sm'h	s.	covered.
H. M. S. Espeigle, S. 45° 49′, E. 170° 39′	29.78	756.4	50	10.0	86	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, S. 15° 26′, E. 45° 57′	29.79	756.7	81	27.2	87	nw.	17	7.6	.....	.....	10	.....	n.	0.32	8.1	mod	nw.	cloudy.
U. S. S. Pensacola, Tomatave, Madagascar *	29.78	756.4	83	28.3	71	se.	.....	.....	2	.....	8	.....	se.	0.09	17.5	gr'd	se.	cloudy.
H. M. S. Coquette, N. 15° 30′, E. 39° 24′	29.90	759.4	83	28.3	71	nne.	.....	.....	1	.....	3	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.94	760.5	78	25.6	86	ne.	.....	.....	3	.....	3	se.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.92	760.0	81	27.2	83	s.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	d clouds.
S. S. Galatia, N. 16° 59′, E. 86° 09′†	30.00	762.0	76	24.4	95	nne.	.....	.....	2	.....	0	.....	.....	1 h'r	1 h'r	light	ne.	clear.
S. S. Port Phillip, N. 7° 47′, E. 86° 08′*	29.90	759.4	84	28.9	.....	sse.	.....	.....	2	.....	.....	.....	.....	.....	.....	sm'h	e.	squally.
S. S. Radnorshire, N. 7° 09′, E. 74° 22′ *†	29.96	761.0	.....	.....	.....	nne.	.....	.....	2	.....	1	.....	var.	sh'rs	sh'rs	light	ene.	clear.
S. Carondelet, S. 7° 06′, E. 125° 28′*†	29.89	759.2	.....	.....	.....	wnw.	.....	.....	1	.....	1	.....	.....	0	0	sm'h	wnw.	clear.
S. S. Lepanto, N. 17° 13′, E. 60° 29′	30.14	765.5	75	23.9	.....	ene.	.....	.....	4	.....	5	.....	ene.	0	0	mod.	ene.	fair.

International Chart I. January 20, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 21, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.50	774.6	58.6	14.8	81	w.			1		0			0	0	clear	Roziere.
Algiers			30.53	775.5	53.6	12.0	76	ese.			2		1			0	0	very fair	Aubert.
La Calle			30.50	774.8	59.0	15.0	72	nw.			1		3			0	0	pretty fair	Fonfrede.
Tunis			30.52	775.3	57.2	14.0	74	nw.			3		3			0	0	pretty fair	Delord.
Tebessa					44.6	7.0	88	e.			3		2			0	0	fair	Hans.
Geriville					48.6	9.2	36	se			2		1			0	0	very fair	Forfert.
Laghouat			30.58	776.6	52.2	11.2	88	s.			1		0			0	0	clear	Abraham.
Biskra			30.54	775.6	56.5	13.6	52	nw.			1		0			0	0	clear	Gonzon.
Australian.																			
Adelaide, South Australia			29.80	756.9	59.0	15.0	61	wsw.	25	11.2			9 k					showery	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.24	742.7	29.43	747.5	60	15.6		se.			3		10		se.	0.29	7.4	cloudy	Com. I. Short, R.N.
Melbourne, Victoria	29.30	744.2	29.39	746.5	57.4	14.1	78	nw.	15	6.7			8			2.56	65.0	raining	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.91	759.8	30.49	774.5	39.4	4.1	49	e.			4		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.3	30.22	767.6	36.7	2.6	82	w.	9.8	4.4			0			0	0		Dr. Wierzbiski
Eperies	29.41	747.1	30.35	770.8	30.2	— 1.0	88	calm			0		10 s			0	0		Julius Mikolik.
Gratz	29.13	739.9	30.45	773.5	33.6	0.9	74	sw.			1.		0			0	0		Andreas Rospini.
Hermannstadt	28.93	734.8	30.44	773.2	34.2	1.2	89	nnw.			1		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	29.10	739.1	30.53	775.4	30.9	— 0.6	91	wsw.			1		9			0	0	cloudy	The Staff.
Lemberg	29.18	741.1	30.21	767.3	36.3	2.4	82	nw.			3		0			0.067	1.7		Dr. T. Stanecki.
Pola	30.34	770.5	30.45	773.4	48.2	9.0	71	wnw.			4		0			0	0		I. R. Hydrographic Office.
Szathmar	29.89	759.3	30.39	771.8	34.2	1.2	80	s.			2		10			0	0		Joseph Midlinszky, S. J
Szegedin	30.10	764.6	30.40	772.2	32.5	0.3	92	sw.			1		4			0	0		Karl Stancel.
Trieste	30.39	772.0	30.49	774.5	47.1	8.4	70	calm			0		0			0	0		Royal Academy.
Vienna	29.67	753.5	30.41	772.3	44.6	7.0	57	wsw.			3		0			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.82	732.0	30.27	768.9	31.6	— 0.2	100	sw.			2		8			0	0	foggy	
Brussels	30.33	770.3	30.54	775.6	45.0	7.2	92	wsw.			3		10		wsw.	0	0		
Furnes	30.49	774.4	30.51	774.9	51.1	10.6	80	wsw.			0–1		2			0.004	0.1		
Maeseyck	30.38	771.6	30.50	774.8	44.8	7.1	89	w.			2		10			0.012	0.3		
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			30.45	773.4	47.3	8.5	68	w.	18	8.0			2					blue sky	John Hartnup.
Bolton, Sharples	29.88	758.9	30.44	773.2	45.3	7.4	78	wnw.	12	5.4			2					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.99	761.7	30.38	771.6	45.9	7.7	72	nw.			4		7			0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.04	763.0	30.07	763.8	80	26.7	74	ne.			3		2					blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	30.39	771.9	30.51	774.9	46.0	7.8	88	sw.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	30.37	771.4	30.55	776.0	50.9	10.5	80	w.			1		9					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.39	771.9	30.63	778.0	49.0	9.4	89	wsw.			1		10					overcast	The Staff.
Fort Napier, Natal	27.57	700.3	29.88	758.9	87.8	31.0	84	e.			1		3					blue sky	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	86	30.0	65	sw.			3		3					d. clouds	J. W. Smith.
Galway, Queen's College	30.34	770.6	30.38	771.6	49	9.4	85	sw.			3		7			0.10	2.5	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.44	773.2	30.49	774.4	60.0	15.6	89	e.			3		5					d. clouds	Sgt. F. Norris, A.H.C.
Greenwich, Royal Obs'y	30.36	771.1	30.54	775.7	49.8	9.9	82	wsw.			2		9					d. clouds	The Staff.
Guernsey	30.34	770.6	30.65	778.5	48.5	9.2	92	wsw.			2		10					raining	A. Collenette, F.R.M.S.
Kew, Observatory	30.52	775.2	30.56	776.2	50.3	10.2	73	w.	9	4.0			7					d. clouds	The Staff.
Leicester, Museum	30.22	767.0	30.48	774.2	50.1	10.1	55	w.			1		5					d. clouds	J. C. Smith.
Malta, Mediterranean	30.34	770.6	30.42	772.7	54.2	12.3	59	ne			2					0.01	0.3	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.25	768.3	30.30	769.6	66.0	18.9	64	n.			2		10					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.30	769.0	30.53	775.4	49.9	9.9	72	wsw.			2		8					d. clouds	The Staff.
Plymouth	30.52	775.2	30.00	777.2	50.0	10.0	93	sw.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.80	756.9	29.90	759.4	43	6.1	77						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.18	766.6	30.25	768.3	35.8	2.1	72	ne.			2		8					snowy	W. H. Lyne.
Sheffield	30.14	765.5	30.43	772.9	47.2	8.4	64	sw.			3		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.28	769.1	30.31	769.9	45.9	7.7	86	w.			4		2			0.46c	11.7	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.43	772.9	45.4	7.4	72	w.	18	8.0								blue sky	Rev. S. J. Perry.
Strathfield Turgiss					52.8	11.6	73	nw.			2.0		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.45	773.4	30.48	774.2	50.4	10.2	94	sw.	23	10.3			10					drizzling	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	30.08	764.0	30.47	773.9	54.5	12.5	60	nw.	3.7	1.7		0	0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.06	763.5	30.10	764.5	—24.0	—31.1		se.	2.5	1.1		4 c	0			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.02	762.5	30.06	763.5	— 5	—20.6	100	nw.	2	0.9		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.04	763.0	30.12	765.0	—25	—31.7	100	calm	0	0		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.04	763.0	30.26	768.6	— 7.7	—22.1	100	w.			1	0	2 s			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.12	765.0	30.17	766.3	—16.0	—26.7		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.08	764.0	30.11	764.8	—21	—29.4	100	s.	3	1.3			10 ks		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.94	735.1	29.86	758.4	1	—17.2	96	nw.	19	8.5		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.07	763.8	30.14	765.5	—18.9	—28.3	100	calm	0	0		0	0			0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	30.07	763.8	30.13	765.3	7	—13.9	76	nw.	5	2.2		5 k	0		nw.	0.02	0.5	fair	J. Chipman Seeley
Granton, Ontario	29.18	741.2	30.43	772.9	— 1.8	—18.8	94	w.	2	0.9			10			0	0	gloomy	Jas. Grant.
Halifax, N. S*	29.94	760.5	30.08	764.0	1	—17.2	96	nw.	6	2.7		0	0			0.010	0.3	clear	A. Allison.
Hamilton, Ontario	29.86	758.4	30.31	769.9	5.7	—14.6	86	sw.			1	10 ck	0		sw.	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.91	759.7	30.29	769.4	2	—16.7	69	e.	3	1.3			10 k		e.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.93	760.2	29.97	761.2	14.0	—10.0	91	n.	2	0.9		3 k	0		n.	0	0	fair	C. H. Rigby.
London, Ontario	29.38	746.2	30.36	771.1	— 0.2	—17.9	93	calm			0	0	7 s			0	0	d. clouds	E. B. Reed.
Medicine Hat, N. W. T.	27.88	708.1	30.04	778.2	16	— 8.9	96	s.	5	2.2		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T.	27.81	706.4	29.92	760.0	3	—16.1	100	nw.	15	6.7		0	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	30.02	762.5	30.25	768.3	— 4	—20.0	68	w.	6	2.7		8 cs	0			0	0	fair	C. H. McLeod, C. E.
Ottawa, Ontario	30.04	763.0	30.31	769.9	—22.0	—30.0	95	nnw.				0	3 s			0	0	d. clouds	A. McCill, M. A.
Parry Sound, Ontario*	29.49	749.0	30.29	769.4	— 9	—22.8	48	e.	5	2.2			10 n		e.	0.01	0.3	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.40	746.7	30.21	767.3	8.7	—12.9	79	nw.			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.14	740.1	29.91	759.7	0	—12.8	76	calm	0	0		8 cs	0		nw.	0	0	fair	W. P. Cooke.
Port Dover, Ontario	29.58	751.3	30.35	770.9	5	—15.0	100	w.	5	2.2		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.67	753.6	30.11	772.4	5	—15.0	87	w.	12	5.4		5 ck	0		sw.	0	0	fair	M. Payne.
Qu Appelle, N. W. T	27.69	703.3	30.11	764.8	14	—10.0		nw.	5	2.2		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.79	756.7	30.21	767.3	—16	—26.7	51	calm	0	0		0	0			0	0	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.76	755.9	30.32	770.1	—30	—34.4	83	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B.	30.05	763.3	30.10	764.5	0	—17.8	94	calm	0	0		0	0			0.01	0.3	clear	
St. John, N. B	29.95	760.7	30.11	764.8	—3.0	—19.4	66	n.	8	3.6		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			29.96	761.0	23.0	— 5.0		sw.			2								The Commandant.
Saugeen, Ontario*	29.48	748.8	30.26	768.6	15	— 9.4	96	w.	15	6.7			10 s			0.10	2.5	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.93	734.8	30.36	771.1	6.2	—14.3	98	nw.	2	0.9			10 n			inap.	inap.	snowing	W. Mc Bride, M. A.
Sydney, C. B*	29.90	761.7	30.03	762.7	6	14.4	96	calm	0	0		10 c	0	w.		0.05	1.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.89	759.2	30.32	770.1	12	—11.1	83	w.	10	4.5			10 n		w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.21	741.9	30.42	772.7	0.2	—17.7	70	w.	5	2.2		2 cs	0	n.		0	0	d. clouds	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.00	762.0	30.07	763.8	9	—12.8	76	e.	6	2.7		10 k	0	w.		0.07	1.8	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.05	763.3	30.08	764.0	75.5	24.2	90	sse.				0	8 ks			0	0	cloudy	I. Garfelt.
Cape Town, The Castle	29.82	757.4			72.3	22.4	70	ese.					10 n			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.86	707.6			71	21.7	73									0.18	4.6		J. F. Eustace
Chilian.																			
Coquimbo	29.95	760.6	30.02	762.6	64.9	18.3	90	n.			2	10	0					cloudy	Samuel Redolez.
Iquique																			Rafael Moreno.
Niebla	29.57	751.0	29.67	753.7	62.6	17.0	86	e.			1	0	4 n		s.	0	0	fair	Federico Köhling.
Punta Caldera	29.92	760.0	30.01	762.2	68.9	20.5	77	e.			1	4 k	0	e.				fair	Manuel Tobar.
Punta Corona	29.88	758.9	30.04	763.1				w.			4		10			0.047	1.2	hazy	Francisco Alvarado.
Valparaiso	29.82	757.4	29.96	760.9	62.1	16.7	86	nw.				10	0					cloudy	Paez-I-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.34	770.5	30.36	771.1	43.3	6.3	78	ese.	11.9	5.3			10			0	0		M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.77	756.1	29.82	757.3	41.7	5.4	82	w.	31	14			4						Oversergent Fischer.
Fanöe	30.01	762.3	30.03	762.8	43.2	6.2	78	wnw.			6		1						Overloerer Lauridsen.
Godthaab, Greenland	29.57	751.1	29.61	752.2	—12.6	—24.8	100	nne.			4		3						S. Kleinschmidt.
Stykkisholm, Iceland	28.71	729.2	28.75	730.3	29.8	— 1.2	90	e.			7		10					snowing	A. O. Thoriacius.
Thorshavn	29.63	752.6	29.65	753.2	35.4	1.9	77	s.	7	3			10						Overloerer Bergh.
Vestervig	29.75	755.7	29.85	758.1	43.3	6.3	88	w.			8		0						Loerer Oesterbol.
Egyptian.																			
Cairo	30.00	762.1			46.4	8		nw.	5.8	2.6			4?			inap.	inap.	covered?	Albert Ismatun.
French.																			
Agen, Normal School	29.95	760.8	30.64	778.2	34.9	1.6	100	n.			1					0	0	foggy	M. Labroue, Director.
Alençon, Normal School	29.98	761.6	30.54	775.6	40.6	4.8	97	w.			1		n			0	0		M. Nicot, Director.
Arras, Normal School			30.51	775.0	49.6	9.8	85	sw.			4		5	w.		0.004	0.1	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.45	773.5	30.53	775.5	42.1	5.6	58	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.11	764.9	30.71	780.0	34.0	1.1	96	s.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.37	771.3	30.64	778.3	46.4	8	83	wsw.			1		10		wsw.	0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.71	754.6	30.67	779.0	32.5	0.3	94	ne.			1					0	0	foggy	M. Gobin, Director.
Bordeaux, Observatory	30.43	772.8	30.71	779.9	33.3	0.7	92	se.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	30.03	762.8	30.62	777.8	34.7	1.5	100	sw.			1				sw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	30.43	772.9	30.67	779.1	50.4	10.2	92	calm			0		6			0.068	0.2		M. de Kermarée, Dir.
Caen, Normal School	30.51	775.0	30.59	777.0	49.6	9.8	100	w.			1		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch	30.31	769.8	30.65	778.4	35.1	1.7	96	sw.			1		10			0.012	0.3	covered	M. Jadot, Director.
Charleville, Normal School	30.09	764.3	30.61	777.5	35.6	2.0	82	wnw.			2					0	0	foggy	M. Noël, Director.
Clermont-Ferrand Obs'y	29.26	743.2	30.72	780.4	28.9	— 1.7	94	w.			1		10			0	0	foggy	M. Allnard, Director.
Cluny, Normal School	29.82	757.4	30.73	780.6	30.9	— 0.6	93	w.			1		9			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.78	756.3	30.69	779.6	34.0	1.1	83	e.			1		10	e.	e.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.95	709.9	30.55	776.0	50.9	10.5	50	calm			0		0			0	0		M. Jarach, Director.
Grénasque, du Rhone	29.33	745.0	30.49	774.4	50.5	10.3	62	n.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.87	758.8	30.70	779.8	32.7	0.4	96	ese.			1		10			0	0	covered	M. Ablard, Director.
Guéret, Normal School	28.94	735.0	30.65	778.6	26.6	— 3.	80	se.			8		n		ssw.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Polipre, Director
Lescar, Normal School	30.10	764.6	30.69	779.5	46.0	7.8	60	ene.			1		10 kn			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.60	777.3	30.71	779.9	48.2	9.0	78	calm			0				se.	0	0		Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.58	751.4	30.72	780.2	31.3	— 0.4	87	n.			1					0	0		M. André, Director.
Mans, Normal School	30.39	772.0	30.68	779.3	38.7	3.7		ssw.			1		10			0	0	foggy	M. Richard, Director.
Marseille, Observatory	30.19	766.9	30.47	773.9	52.9	11.6	48	w.			0–1		0			0	0		M. Stephan, Director.
Montlouis	25.19	639.7	30.03	762.7	46.4	8.0	32	nw.	11.2	5.0			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.38	771.6	30.49	774.4	47.8	8.8	67	w.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.85	758.1	30.69	779.4	33.8	1.0	89	sw.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	30.56	776.2	30.72	780.4	41.5	5.3	97	ssw.			0–1		10			0	0		M. Larocque, Director.
Perpignan, Observatory	30.40	772.1	30.51	775.0	57.7	14.3	19	nw.	18.6	8.3			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.54	547.1			26.2	— 3.2		ene.			2		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.52	749.9	30.63	778.0	39.4	4.1	77	s.			1		n			0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.58	649.8			37.9	3.3	34	ne.			3	1 c				0	0		M. Allnard.
Rochefort, Naval Obs'y	30.71	780.0	30.74	780.8	39.2	4.0	83	calm			0		10		se.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.43	772.9	30.66	778.7	38.1	3.4	87	e.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.40	721.2	30.69	779.5	27.9	— 2.3		nw.			1					0	0		M. Seger, Director.
Rouen, Normal School	30.40	772.1	30.45	773.3	46.0	7.8	89	ssw.			1		10		s	0	0	foggy	M. Mouillot, Dir.
St. Lô, Normal School			30.51	775.0	47.7	8.7	88	w.			1		10			0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.50	774.8	30.67	779.0	38.1	3.4	99	ssw.			1		10			0.004	0.1	covered	M. Renou, Director.
Toulouse, Observatory	29.98	761.6	30.73	780.6	37.4	3.0	93	w.			1		10	nw.		0.012	0.3	covered	M. Baillaud, Director.
Tours	30.52	775.3	30.70	779.8	38.8	3.8	93	wsw.			1					0.004	0.1		M. de Tastes.
Versailles, Observatory	30.15	765.8	30.65	778.4	39.9	4.4	100	sw.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.55	775.9	30.70	779.7	41.7	5.4	81	ne.	4.0	1.8			10 k		sw.	0	0	covered	M. Cartier, Director.
German.																			
Ansbach	29.05	737.8	30.60	777.1	32.0	0.0	93	w.			2		10	w.		0	0		Prof. Jnedt.
Bamberg	29.67	753.7	30.53	775.5	36.5	2.5	67	wsw.			3		10			0	0		Prof. Dr. Hoh.
Berlin	30.09	764.3	30.24	768.1	41.0	5.0	87	w.			2		10			0	0		Meteorological Institute
Breslau	29.71	754.7	30.25	768.3	39.0	3.9	72	wsw.			3		10			0	0		Royal University Obs'y
Carlsruhe	30.15	765.7	30.64	778.3	32.0	0.0	93	sw.			4		10			0	0	foggy	Albert Senz.
Cassel	29.70	754.3	30.41	772.4	38.7	3.7	90	s.			4		5	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.18	766.6	30.58	776.6	36.3	2.4	89	ssw.			1		10			0	0		Physical Society.
Friedrichshafen	29.14	740.2	30.65	778.6	32.0	0.0	85	sw.			1		10			0	0	hazy	Wilhelm, Chief Tel.
Hamburg	30.12	765.0	30.21	767.3	45.0	7.2	73	wnw.			8		3			0.008	0.2		E. Preller.
Kiel	30.08	764.0	30.10	764.4	44.1	6.7	73	w.			6		3			0.047	1.2		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.93	760.3	30.37	771.5	40.1	4.5	82	sw.			3		10	wsw.		0	0		H. Leppig, Asst.
Magdeburg	30.08	764.1	30.28	769.1	43.3	6.3	81	wsw.			4		10			0	0		Weather Observatory.
Memel	29.66	753.4	29.71	754.6	38.3	3.5	93	nnw.			7		10 s						Issermann.
Munich	28.65	727.8	30.55	776.0	43.0	6.1	57	w.			2		1	w.		0	0		Central Station.
Neufahrwasser	29.85	758.3	29.87	758.7	40.1	4.5	89	sw.			4		10			0.008	0.2	raining	A. Lothes.
Neustadt, Palatinate	30.00	762.0	30.52	775.2	37.9	3.3	80	w.			2		6	w.		0	0		Dicknether.
Stuttgart	29.61	752.0	30.56	776.2	32.4	0.2	96	nw.			1		10			0	0	dense fog	Prof. Dr. Schoder.
Wustrow	29.97	761.2	29.99	761.8	41.9	5.5	76	wsw.			6		6 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.98	761.6	30.39	771.9	39.6	4.2		n.			1.0	0	3 k			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.94	760.6	30.00	761.9	71.7	22.1	71	wsw.	28.0	12.5			2		wsw.	0	0	d. clouds	
Deesa	29.50	749.3	29.98	761.5	79.2	26.2	21	sw.	10.0	4.5			0			0	0	blue sky	
Bombay	29.96	761.1	30.00	762.1	78.6	25.9	72	wnw.	7.0	3.1			0			0	0	blue sky	
Poona, Yarrowda	28.12	714.4	29.98	761.6	80.3	26.8	25	e.	3.0	1.3			0			0	0	blue sky	
Belgaum	27.44	696.9	29.98	761.4	77.4	25.2	26	ene.	5.0	2.2			0			0	0	blue sky	
Lahore	29.19	741.4	29.96	761.0	63.6	17.6	65	calm	0	0			3			0	0	d. clouds	
Roorkee	29.03	737.4	29.96	761.1	63.8	17.7	48	w.	1.0	0.4			0			0	0	blue sky	
Agra	29.40	746.8	29.98	761.5	70.0	21.1	39	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.96	735.6	30.03	762.6	73.1	22.8	38	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p.sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Tubbulpore	28.65	727.8	30.05	763.2	67.8	19.9	61	calm	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.58	751.4	29.97	761.3	68.3	20.2	38	wsw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.64	752.9	29.96	761.1	68.2	20.1	49	calm	0	0	.....	.....	5	nw.	.....	0	0	d. clouds	
Patna	29.78	756.3	29.97	761.2	67.4	19.7	48	wsw.	4.9	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.92	709.3	29.99	761.8	65.2	18.4	32	nw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.91	759.7	30.00	761.9	72.2	22.3	56	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.94	760.5	29.96	761.0	67.8	19.9	65	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.83	757.8	29.96	760.9	65.4	18.6	76	e.	3.6	1.6	.....	.....	1	w.	.....	0.18	4.6	d. clouds	
Chittagong	29.88	758.9	29.97	761.3	68.6	20.3	74	wnw.	3.1	1.4	.....	.....	3	.....	.....	0	0	d. clouds	
Sibsagar	29.65	753.0	30.00	761.9	61.9	16.6	91	ne.	1.0	0.4	.....	.....	9	sw.	sw.	0.40	10.2	d. clouds	
Jeypore	28.53	724.5	30.01	762.2	69.4	20.8	39	nw.	1.5	0.7	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.80	756.8	29.82	757.3	84.0	28.9	60	ne.	9.7	4.3	.....	.....	1	.....	.....	0	0	d. clouds	
Bellary	28.49	723.6	.....	.....	78.0	25.6	34	ne.	2	0.9	.....	0	0	.....	.....	0	0	blue sky	
Trichinopoly	29.70	754.4	.....	.....	81.9	27.7	60	ne.	0.2	0.04	.....	3	3	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	30.05	763.3	30.48	774.1	46.9	8.3	45	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	30.00	762.0	30.54	775.7	35.2	1.8	89	sw.	4.9	2.2	.....	.....	8	.....	.....	0.016	0.4	.....	Prof. G.V.Schiapparelli
Padua	30.37	771.4	30.48	774.3	42.3	5.7	69	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.58	751.4	30.52	775.3	39.9	4.4	65	sse	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	30.26	768.6	30.46	773.6	55.0	12.8	35	s.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Pesaro	30.45	773.5	30.50	774.8	41.4	5.2	81	n.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.23	767.8	30.49	774.5	40.6	4.8	81	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei
Leghorn	30.33	770.4	30.42	772.6	52.2	11.2	71	ne.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.26	768.6	30.44	773.1	53.2	11.8	58	n.	0.7	0.3	.....	.....	1	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	30.16	766.1	30.43	772.7	49.3	9.6	57	ne.	11.2	5.0	.....	.....	3	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.53	750.0	30.45	773.4	46.4	8.0	72	ese.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.24	768.1	30.44	773.1	53.8	12.1	55	nnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.20	767.1	30.45	773.5	56.3	13.5	57	wnw.	6.3	2.8	.....	.....	4	nw.	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.36	771.2	30.41	772.4	53.6	12.0	64	n	1.8	0.8	.....	.....	2	nw.	.....	0	0	.....	Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.90	759.4	30.44	773.1	54.7	12.6	66	e.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	30.26	768.5	30.29	769.4	18.8	— 7.3	100	ne.	.....	.....	2	0	8 k;s	.....	nw.	0.071	1.8	cloudy	H. Hattori.
Awomori	30.21	767.3	30.25	768.3	17.7	— 7.9	75	s.	2.2	1.0	.....	0	0	.....	.....	0.021	0.5	clear	K. Ogawa.
Hakodate	30.25	768.2	30.26	768.5	10.2	—12.1	92	nnw.	3.0	1.3	.....	0	0	.....	.....	0	0	clear	Y. Souma.
Hamamatsu	30.21	767.3	30.31	769.8	34.5	1.4	59	wnw.	.....	.....	2	0	0	.....	.....	0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.43	773.0	30.45	773.4	34.3	1.3	78	n.	4.0	1.8	.....	1 ck	0	nw.	.....	0	0	clear	Y. Okamoto.
Kagoshima	30.43	772.9	30.44	773.2	37.0	2.8	61	n.	.....	.....	2	0	1 s	.....	.....	0	0	clear	
Kanazawa	30.30	769.5	30.41	772.3	30.0	— 1.1	100	e.	6.1	2.7	.....	0	8ks;s	.....	.....	0.094	2.4	cloudy	S. Endo.
Kioto	30.22	767.7	30.40	772.1	28.4	— 2.1	93	wnw.	0.1	0.04	.....	0	2 s	.....	.....	0.109	2.8	clear	M. Tojima.
Kochi	30.41	772.3	30.43	772.8	38.1	3.4	56	n.	5.9	2.6	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.41	772.5	30.44	773.3	30.0	— 1.1	83	nnw.	.....	.....	1	0	0	.....	.....	0	0	clear	K. Masusaki.
Miyako	30.11	764.8	30.22	767.6	24.5	— 4.2	67	sw.	0.4	0.2	.....	0	0	.....	.....	0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.24	768.1	30.46	773.7	32.9	0.5	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	
Nemuro	30.11	764.8	30.16	766.1	18.3	— 7.6	91	w.	18.0	8.0	.....	2 k	0	.....	.....	0	0	clear	A. Shibuya.
Niigata	30.30	769.6	30.33	770.4	35.7	2.1	66	n.	5.3	2.3	.....	.....	10 ks	.....	sw.	0.140	3.6	covered	Satoo & Tomikawa.
Nobiru	30.24	768.0	30.25	768.3	25.7	— 3.5	83	nnw.	1.7	0.7	.....	0	0	.....	.....	0	0	clear	Yoshino & Midzushina.
Numadzu	30.25	768.3	30.28	769.2	31.3	— 0.4	57	ne.	.....	.....	2	0	0	.....	.....	0	0	clear	T. Ohgi.
Osaka	30.39	772.0	30.41	772.4	32.8	0.4	78	nw.	1.6	0.7	.....	0	0	.....	.....	0.015	0.4	clear	G. Omura.
Sakai	30.43	773.0	30.44	773.2	33.9	1.1	91	wsw.	.....	.....	2	.....	10 ks	.....	n.	0	0	cloudy	Yamawchi & Sakamoto.
Sapporo	30.18	766.7	30.25	768.5	18.0	— 7.8	80	s.	0.4	0.2	.....	0	4 s	.....	.....	0	0	clear	S. Kimura.
Shimonoseki	30.30	769.7	30.45	773.4	37.8	3.2	68	s.	.....	.....	1	0	3 s	.....	.....	0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	30.24	768.1	30.32	770.2	31.6	— 0.2	81	n.	10.2	4.6	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.36	771.2	30.42	772.6	35.0	1.7	70	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	K. Nakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.56	750.8	29.74	755.4	79.0	26.1	82	ese.	25.5	11.4	.....	3cs;ck	6 ks;kn	ssw.	ese.	0.72	18.3	cloudy	The Staff.
MEXICAN.																			
Leon	24.51	622.5	30.47	773.9	41.2	5.1	86	nnw.	0.9	0.4	.....	0	0	.....	.....	0	0	clear	M. Leal & M. Pina.
Mazatlan	29.91	759.8	30.18	766.5	68.0	20.0	79	w.	1.6	0.8	.....	0	0	.....	.....	0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.51	774.9	30.51	774.9	46.6	8.1	.....	w.	.....	.....	3	.....	.....	.....	.....	0.004	0.1	.....	
Groningen	30.33	770.4	30.39	771.8	44.2	6.8	.....	wnw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Helder	30.38	771.7	30.38	771.7	44.6	7.0	.....	w.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.47	774.0	30.47	774.0	48.7	9.3	85	w.	.....	.....	3	.....	.....	.....	.....	0.008	0.2	.....	
Utrecht	30.42	772.7	30.48	774.1	48.2	9.0	76	w.	.....	.....	3	.....	7	.....	.....	0.004	0.1	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.3	.....	.....	74.8	23.8	91	wnw.	0	0	.....	.....	10	.....	.....	0.059	1.5	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.56	750.8	29.62	752.4	42.8	6.0	76	nw.	18	8	.....	.....	9	.....	.....	0.591	15.0	raining	
Brono	29.43	747.4	29.47	748.4	30.2	— 1.0	69	n.	.....	.....	4	.....	4	.....	.....	0.228	5.8	.....	
Christiania	29.14	740.2	29.29	743.9	43.9	6.6	45	w.	25	11	.....	.....	8	.....	.....	0	0	.....	
Gjesvær	28.40	721.3	28.42	721.9	35.6	2.0	.....	sw.	.....	.....	7	.....	9	.....	.....	0.146	3.7	snowing	
Lodingen	29.22	742.1	29.26	743.3	24.8	— 4.0	55	nw.	.....	.....	2	.....	8	.....	.....	0.004	0.1	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.46	773.6	30.54	775.8	61.0	16.1	52	n.	6.3	2.8	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.23	767.8	30.58	776.8	46.9	8.3	77	ne.	9.8	4.4	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.61	777.4	30.68	779.2	63.0	17.2	70	calm	0	0	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
St. Vincent, Cape Verd Ids.	30.07	763.8	30.10	764.6	69.1	20.6	71	ene.	.....	.....	5	.....	10	.....	.....	0	0	.....	
San Salvador, Congo	28.07	713.0	29.88	759.0	84.2	29.0	58	w.	.....	.....	2	.....	9	.....	.....	0	0	.....	
Serra da Estrella	25.67	651.9	30.48	774.3	46.6	8.1	36	sse.	8.1	3.6	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.74	729.9	29.89	759.3	16.3	— 8.7	91	ssw.	11	5	.....	.....	10 n	.....	.....	0.016	0.4	.....	Major K. Lasarew.
Archangel	28.84	732.4	28.85	732.9	24.1	— 4.4	93	sse.	13	6	.....	.....	10	.....	.....	0.047	1.2	.....	Capt. Sseliwerstow
Ashuradа	30.23	767.9	30.14	765.5	45.1	7.3	90	n.	2	1	.....	.....	10 kn	.....	.....	0	0	.....	
Astrakhan	30.41	772.3	30.32	770.2	11.3	—11.5	78	wsw.	2	1	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.28	769.0	30.23	767.8	38.5	3.6	65	nne.	13	6	.....	0	8k;ks	.....	.....	0	0	.....	
Barnaul	29.92	760.0	30.51	774.9	—15.2	—26.2	90	ne.	4	2	.....	.....	0	.....	.....	0	0	.....	Meteorological Office.
Bielosersk	28.92	734.5	29.39	746.5	31.0	1.1	86	sw.	11	5	.....	.....	10 ks	.....	.....	0.075	1.9	.....	
Dorpat	29.33	744.9	29.58	751.2	34.9	1.6	89	wsw.	11	5	.....	.....	10 n	.....	.....	0.173	4.4	.....	Observatory.
Ekaterinburg	28.72	729.6	29.78	756.4	— 2.0	—18.9	93	sw.	9	4	.....	.....	10 n	.....	.....	0.020	0.5	.....	Meteorological Obs'y.
Elissawetgrad	29.81	757.2	30.30	769.7	16.9	— 8.4	84	s.	4	2	.....	.....	10 n	.....	.....	0	0	.....	
Kassan	29.51	749.6	29.81	757.1	4.5	—15.3	95	ssw.	7	3	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kem	28.78	731.0	28.83	732.3	34.5	1.4	85	w.	45	20	.....	.....	10 k	.....	.....	0.035	0.9	.....	
Kertch	30.28	769.6	30.30	769.6	14.7	— 9.6	.....	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	29.44	747.8	30.11	764.8	32.0	0.0	100	w.	7	3	.....	.....	10 n	.....	.....	0.008	0.2	light snow.	Observatory.
Koslov	29.43	747.5	29.97	761.2	17.8	— 7.9	86	sw.	13	6	.....	.....	10 s	.....	.....	0	0	.....	
Lgov	29.49	749.0	30.12	765.0	18.3	— 7.6	91	sw.	22	10	.....	.....	10	.....	.....	0	0	.....	R. I. Ssaweljew, Engin'r.
Libau	29.60	751.9	29.63	752.5	37.6	3.1	93	sw.	25	11	.....	.....	10	.....	.....	0.004	0.1	.....	Quass.
Lugan	30.02	762.6	30.25	768.3	15.1	— 9.4	81	sw.	13	6	.....	.....	7	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.24	742.8	29.74	755.5	27.0	— 2.8	90	s.	7.8	3.5	.....	.....	10 s	.....	.....	0.008	0.2	.....	Meteorological Obs'y
Nertschinsk	27.80	706.1	30.43	773.0	—14.4	—25.8	87	calm	0	0	.....	.....	5	.....	.....	0	0	.....	

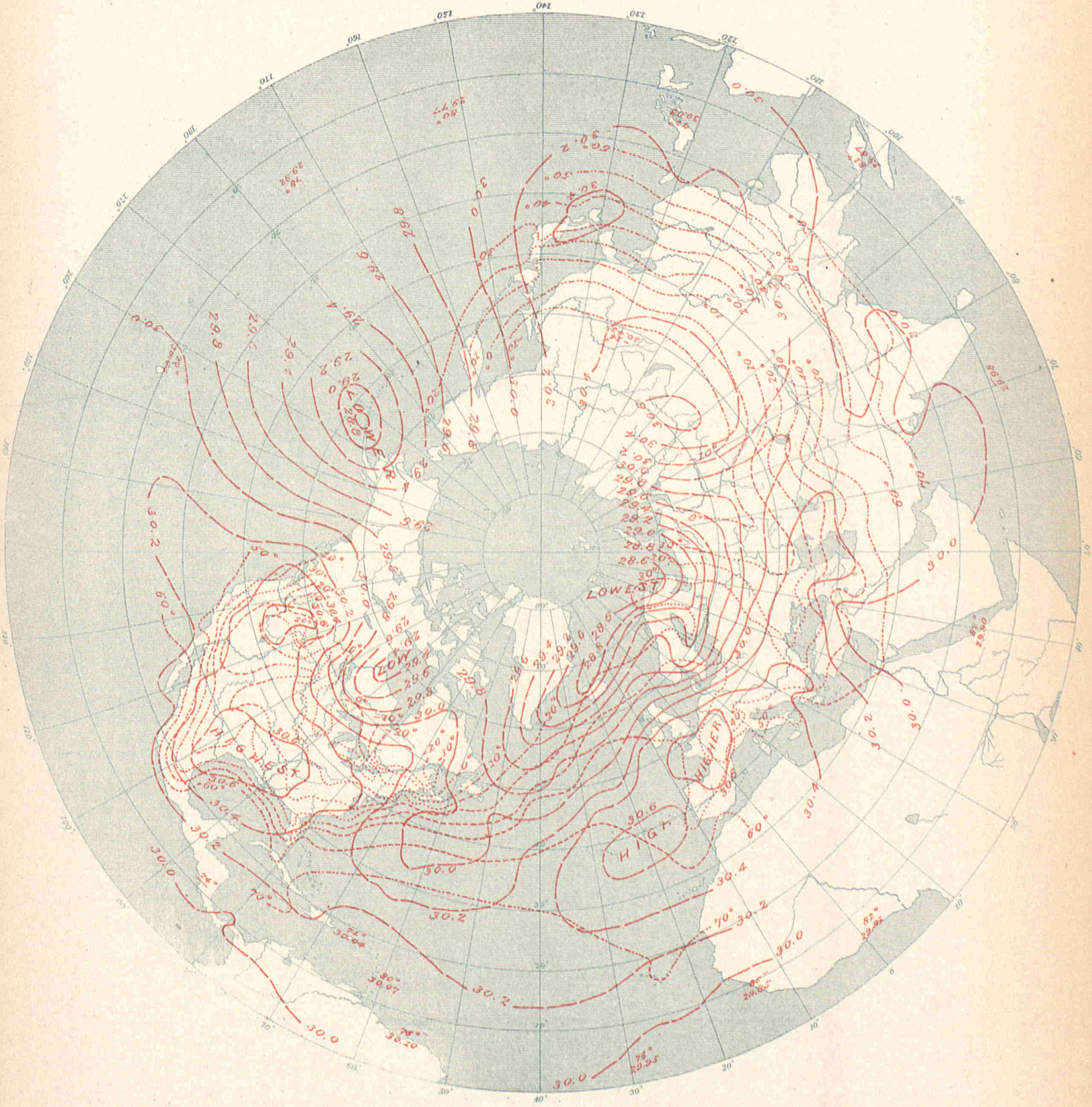
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaiev	30.27	768.9	30.34	770.7	14.9	— 9.5	81	sw.	13	6			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	30.08	764.0	30.17	766.2	—20.9	—29.4	79	calm	0	0		0	0						Iwanow.
Pekin, China	30.15	765.8	30.29	769.4	21.4	— 5.9	80	calm	0	0		0	0			0	0		Physical Observatory
Petro-Alexandrovsk	29.85	758.2	30.22	767.7	31.1	— 0.5	90	nne.	2	1			10 n						
Petrozavodsk	29.00	736.6	29.20	741.7	33.3	0.7	71	nw.	34	15		0	1 s			0.039	1.0		Dr. Bergmann.
Pinsk	29.57	751.1	30.09	764.3	35.4	0.9	89	w.	13	6			10 s			0.012	0.3		
Poti	30.05	763.2	30.08	764.0	38.1	3.4	92	e.	4	2			10 n			0.366	9.3		
St. Petersburg	29.40	746.7	29.42	747.3	35.1	1.7	84	w	16	7		c	10 n			0.004	0.1	light clouds	Central Physical Obs'y.
Samarkand	27.61	701.3	30.09	764.3	53.1	11.7	65	calm	0	0		1 c	0						
Semipalatinsk	29.60	751.8	30.34	770.7	— 2.0	—18.9	82	e.	9	4			10			0	0		Major Lasarew
Sevastopol	30.10	764.4	30.33	770.3	22.5	— 5.3	80	nne.	11	5		0	1 s			0	0		
Starol Bykhov	29.36	745.7	29.93	760.3	35.4	1.9	88	ssw.	11	5			10			0	0		
Tashkend, Laboratory	28.41	721.5	30.09	764.2	53.1	11.7	64	calm	0	0		0	1 s						Terch, A. M
Tiflis	28.76	730.6	30.26	768.7	31.5	— 0.3	85	calm	0	0			10 s			0.051	1.3	light snow	Physical Observatory.
Vernoe	27.46	697.4	30.08	764.0	29.1	— 1.6	80	ne.	4	2			9 n						
Viatka	28.94	735.1	29.63	752.5	5.7	—14.6	91	s.	7	3			8			0	0		
Vladivostock	30.25	768.3	30.32	770.0	4.8	—15.1	65	nnw	18	8		0	5 s			0	0		
Warsaw	29.66	753.4	30.11	764.8	34.0	1.1	92	w.	18	8			10			0	0	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	30.32	770.0	30.66	778.7	—22.7	—30.4	78	ne.	2	1			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.13	739.9	29.58	753.9	27.3	— 2.6	92	wsw.	9	4.0			10 s		sw.	inap.	inap.	cloudy	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.38	771.7	30.50	774.6	58.6	14.8	65	se.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.63	777.9	30.69	779.4	46.9	8.3	90	se.	0.4	0.2			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.56	699.9	30.71	779.9	34.7	1.5	96	n.	4.3	1.9		0	7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.28	718.4	30.60	777.2	47.7	8.7	57	e.	4.5	2.0		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.40	772.2	30.54	775.6	57.9	14.4	77	wsw.	0.9	0.4		0	2			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.60	751.7	30.51	775.0	51.8	11.0	65	ne.	6.9	3.1			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.26	768.7	30.33	770.4	66.3	19.1	62	nne.	13.4	6.0		0	7 ks		n.	0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	30.02	762.6	30.08	764.0	71.0	21.7	76	nne.	4.4	2.0		0	8			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.43	773.0	30.53	775.6	60.1	15.6	62	e.	6.1	2.7		2	6	e.	e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.95	760.6	30.04	762.9	73.8	23.2	76	e.	2.2	1.0		4 c	3 k	e.	e.	0.039	1.0		Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.09	738.8	29.13	739.8	25.2	— 3.8	82	nw.			6		0			0.445	11.3		
Umea	29.29	744.0	29.34	745.3	29.5	— 1.4	60	nw.			2		10			0	0		
Hernosand	29.30	744.1	29.35	745.4	30.2	— 1.0	80	calm			0		10			0	0		
Stockholm	29.03	737.3	29.21	741.8	36.9	2.7	91	sw.			6		10			0	0		
Wisby	29.36	745.8	29.42	747.3	39.2	4.0	90	wsw.			7		5			0	0		
Sub-series.																			
Upsala	29.08	738.5	29.16	740.7	35.1	1.7	96	ssw.	12.8	5.7			10		sw.	0.205	5.2	raining	H. H. Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.29	769.4	36.1	2.3	75	n.	22	10.0			9		n.	0	0		The Observatory.
Valona			30.38	771.6	52.0	11.1		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	757.0	42.8	6.0	94	ene.			1		10 n		sw.	3.548	90.1		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.21	767.3	30.30	769.6	8	—13.3	78	ne.	2	0.9			10 s			0.05	1.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.55	750.6	30.26	768.6	5	—15.0	76	sw.	5	2.2			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.25	641.3	30.37	771.4	20.0	— 6.7	76	n.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.38	695.4	30.42	772.7	14.0	—10.0	83	sw.	20	8.9		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.28	743.7	30.51	774.9	14.0	—10.0	72	nw.	16	7.2		0	0			inap.	inap.	clear	S. W. Beall.
Atlantic City, New Jersey	30.35	770.9	30.36	771.1	9.0	—12.8	76	nw.	10	4.5		3 c	0	nw.		0.04	1.0	clear	B. A. Blundon.
Augusta, Georgia	30.29	769.4	30.49	774.4	25.5	— 3.6	75	w.	7	3.1		1 ck	0			0	0	clear	W. J. Evans.
Baltimore, Maryland	30.39	771.9	30.44	773.2	15.0	— 9.4	67	nw.	7	3.1		0	0			inap.	inap.	clear	Geo. W Felger.
Barnegat City, New Jersey	30.32	770.1	30.34	770.6	11.0	—11.7	70	n.	20	8.9		1 k	0			0.09	2.3	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.57	725.7	30.31	769.9	9.0	—12.8	60	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.47	697.7	30.45	773.4	24.0	— 4.4	40	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.20	716.3	30.20	767.1	21	— 6.1	73	nw.	17	7.6		0	0			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.22	767.6	30.25	768.3	15.0	— 9.4	74	n.	18	8.0		0	0			0.20	5.1	clear	J. T. Elker.
Boise City, Idaho	27.69	703.3	30.62	777.7	10	—12.2	91	sw.	5	2.2		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	30.04	763.0	30.21	767.3	6.5	—14.2	63	nw.	7	3.1		0	fg.		e.	0.33	8.4	clear	O. B. Cole.
Brownsville, Texas	30.61	777.5	30.67	779.0	35.3	1.8	69	n.	6	2.7		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.55	750.6	30.34	770.6	10.3	—12.1	94	sw.	16	7.2			10 n		sw.	0.02	0.5	light snow	Wm. Finn.
Buford, Fort, Dakota	28.06	712.7	30.29	769.4	15.8	— 9.0	91	w.	4	1.8		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	30.24	768.1	30.66	778.7	12.5	—10.8	70	n.	1	0.4		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	30.21	767.3	30.41	772.4	40.0	4.4	54	e.	2	0.9		0	0			0	0	clear	J. H. Young.
Cape Henry, Virginia	30.39	771.9	30.41	772.4	21.0	— 6.1	58	nw.	24	10.7			10 s		n.	0.02	0.5	cloudy	A. K. Alderson
Cape May, New Jersey	30.37	771.4	30.40	772.1	18.3	— 7.6	76	nw.	31	13.9		0	0			0.14	3.6	clear	W. E. Smith.
Cape Mendocino, California	29.57	751.1	30.27	768.8	46	7.8	93	n.	18	8.0			10 s			inap.	inap.	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.51	774.9	30.53	775.4	28.0	— 2.2	54	nw.	19	8.5		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.31	769.2	30.37	771.4	31.0	—0.6	78	nw.	9	4.0		0	8 ks		nw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.68	753.9	30.57	776.5	18.5	— 7.5	67	n.	4	1.8		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.74	755.4	30.60	777.2	15.5	— 9.2	75	n.	4	1.8		1 ck	0			inap.	inap.	clear	B. L. Goulding.
Cheyenne, Wyoming	24.23	615.4	30.50	774.7	20.2	— 6.6	48	nw.	12	5.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.69	754.1	30.44	773.2	2.0	—16.7	59	sw.	6	2.7		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.38	771.6	30.40	772.1	15.0	— 9.4	67	nw.	23	10.3		0	0			inap.	inap.	clear	C. F. Dickens.
Cincinnati, Ohio	29.90	759.4	30.59	777.0	7.9	—13.4	82	sw.	4	1.8		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.64	752.8	30.42	772.7	2.0	—10.7	72	sw.	8	3.6			10 s		sw.	0.02	0.5	cloudy	W. Line.
Columbus, Ohio	29.60	751.8	30.50	774.7	7.4	—13.7	81	s.	6	2.7		0	fg.			0	0	clear	F. T. Williams.
Concho, Fort, Texas	28.63	727.2	30.65	778.5	26.8	— 2.9	100	calm	0	0		0	0			0	0	clear	C. E. King.
Custer, Fort, Montana	27.10	688.3	30.48	774.2	— 1	—18.3	72	e.	7	3.1		0	0			0	0	clear	W. J. Daily.
Davenport, Iowa	29.75	755.6	30.46	773.7	6.5	—14.2	62	w.	6	2.7		1 cs	hz.	w.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.53	648.5	30.51	774.9	20.7	— 0.3	75	s.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.81	731.8	30.62	777.7	19.0	— 7.2	100	calm	0	0			fg.			0	0	dense fog	H. S. Blandford.
Deadwood, Dakota	25.55	649.0	30.50	774.7	33.8	1.0	79	sw.	10	4.5		0	0			0	0	clear	G. Kingsbury.
Delaware Breakwater, Del.	30.38	771.6	30.40	772.1	12.1	—11.1	63	nw.	28	12.5		0	0			0.02	0.5	clear	G. A. Martin.
Denver, Colorado	24.99	634.7	30.51	774.9	24.0	— 4.4	56	s.	10	4.5		0	0			0	0	clear	F. M. Nem.
Des Moines, Iowa	29.46	748.3	30.42	772.7	9.8	—12.3	64	nw.	2	0.9		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.66	753.4	30.42	772.7	12.0	—11.1	80	sw.	6	2.7		0	0			0	0	clear	N. B. Conger.
Dodge City, Kansas	27.79	705.9	30.54	775.7	15.5	— 9.2	76	w.	8	3.6		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.65	753.1	30.42	772.7	— 4.2	—20.1	52	sw.	1	0.4		0	fg			0	0	clear	J. Harvey Smith
Duluth, Minnesota	29.32	744.7	30.13	765.3	2.5	—16.4	78	sw.	5	2.2		3 c	0			0	0	clear	E. R. Brace.
Eastport, Maine	30.04	763.0	30.12	765.0	0.0	—17.8	68	nw.	8	3.6		2 c	1 s	n.	n.	0.07	1.8	clear	D. C. Murphy.
Elliott, Fort, Texas	27.65	702.3	30.58	776.7	29	— 1.7	67	w.	5	2.2		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.66	677.2	30.54	775.7	29.3	— 1.5	67	se.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.61	752.1	30.38	771.6	9.0	—12.8	80	sw.	4	1.8			10 s			inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.51	749.5	30.23	767.8	— 5.0	—20.6	75	s.	7	3.1		2 ck	0			0	0	clear	L. M. Pindell.
Fort Smith, Arkansas	30.13	765.3	30.63	778.0	20.0	— 6.7	70	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Galveston, Texas	30.61	777.5	30.65	778.5	38	3.3	82	w.	4	1.8		hz.	0			0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.64	752.8	30.35	770.9	17.0	— 8.3	83	sw.	12	5.4			10 s		sw.	0.02	0.5	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.44	646.2	30.34	770.6	32.6	0.3	65	e.	12	5.4		0	0			0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.36	771.1	30.37	771.4	29 0	— 1.7	88	n.	20	8.9			10 s		ne.	0.15	3.8	cloudy	R. M. Crawford.
Helena, Montana	26.24	666.5	30.62	777.7	— 3	—19.4	68	calm	0	0		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	28.74	730.0	30.28	769.1	7.7	—13.5	70	s.	5	2.2		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.67	753.6	30.51	774.9	1.5	—16.9	75	sw.	2	0.9		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.63	778.0	30.66	778.7	33.2	0.7	74	w.	10	4.5		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	30.42	772 7	30.47	773.9	31.0	— 0.6	88	nw.	2	0.9		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.80	756.9	30.50	774.7	8.0	—13.3	76	sw.	4	1.8		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.32	770.1	30.34	770.6	58.5	14.7	72	n.	21	9.4		0	7 k		n.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.39	771.9	30.41	772.4	23.2	— 4.9	85	nw.	20	8.9		2 ck	3 ks	nw.	nw.	0.10	2.5	fair	Wesley Blake.
Knoxville, Tennessee	29.50	749 3	30.58	776.7	13.3	—10.4	70	ne.	6	2.7			10 s			inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.46	748.3	30.30	769.6	5	—15.0	76	s	14	6.3		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.55	750.6	30.51	774.9	12	—11.1	61	s.	1	0.4		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.82	757.4	30.69	779.5	21.0	— 6.1	70	se.	2	0.9			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	30.30	769.6	30.64	778.2	23.0	— 5.0	88	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.83	757.7	30.23	767.8	49.9	9.9	49	ne.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.98	761.5	30.58	776.7	14.0	—10.0	70	w.	4	1.8		0	0			0	0	clear	L. M Dey.
Lynchburg, Virginia	29.70	754.4	30.42	772.7	16.0	— 8.9	57	w.	6	2.7		0	0			0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.53	750.0	30.23	767.8	7.0	—13.9	85	s.	1	0.4			10 s			0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.36	771.1	30.37	771.4	27.7	— 2.4	82	n.	17	7.6		0	5 k		w.	inap.	inap.	fair	William Daly.
Maginnis, Fort, Montana	25 69	652.5	30.46	773.7	33.5	0.8	34	w.	28	12.5		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.38	746.2	30.16	766.1	5.0	—15.0	62	se.	3	1.3		0	1 s			0	0	clear	J. Gilligan.
Memphis, Tennessee	30.27	768 8	30.63	778.0	22 0	— 5.6	87	calm	0	0			fg.			inap.	inap.	dense fog	D. T. Flannery
Milwaukee, Wisconsin	29.57	751.1	30.37	771.4	2.3	—16.5	77	w.	7	3.1		0	0			0	0	clear	S. W. Rhode.
Mobile, Alabama	30.62	777.7	30.66	778.7	25.4	— 3.7	73	n.	5	2.2		0	0			0	0	clear	H. U. Jones.
Montgomery, Alabama	30.41	772.4	30.65	778.5	20	— 6.7	76	nw.	5	2.2		0	0			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.98	736.1	30.09	764.3	— 5	—21.1	61	s.	6	2.7		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.29	591.6	29.92	760 0	—12.0	—24.4	67	nw.	40	17.9			fg.		nw.	0.03	0.8	dense fog	Edwd. A. Beals.
Nashville, Tennessee	30.02	762.5	30.62	777.7	12.5	—10.8	80	nw.	2	0.9		0	0			inap.	inap.	clear	L. N. Jesunofsky
New Haven, Connecticut	30.16	766.1	30.28	769.1	5.4	—14.8	84	nw.	4	1.8		0	0			0.06	1.5	clear	J. H. Sherman.
New London, Connecticut.	30.27	768.8	30.32	770.1	11.0	—11.7	65	nw.	5	2.2		0	0			0.23	5.8	clear	J. G. Lynch.
New Orleans, Louisiana	30.62	777.7	30.68	779.3	33.5	0.8	46	n.	9	4.0		0	0			0	0	clear	M. Herman.
New York, New York	30.14	765.5	30.33	770.4	11.0	—11.7	87	w.	2	0.9		0	0			0.10	2.5	clear	H. J. Penrod.
Norfolk, Virginia	30.38	771.6	30.41	772.4	22.0	— 5.6	75	n.	6	2.7		4ck; hz	0	n.		0.04	1.0	fair	Wm. Davis.
North Platte, Nebraska	27.34	694.4	30.46	773 7	13	—10.6	74	w.	8	3.6		0	0			0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	30.45	773.4	30.49	774.4	35.0	1.7	89	calm	0	0			10 s			0	0	cloudy	J. Dascomb
Omaha, Nebraska	29.15	740 4	30.42	772.7	15.3	— 9.3	70	sw.	8	3.6		0	0			0	0	clear	A. Pollak
Oswego, New York	29.92	760.0	30.27	768.8	15.2	— 9.3	62	se.	4	1.8			10 n		nw.	0.08	2.0	light snow	J. G. Linsley.
Palestine, Texas	30.04	763.0	30.62	777.7	34.8	1.6	68	sw.	3	1.3		0	0			0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.62	777.7	30.65	778.5	26.8	— 2.9	59	n.	10	4.5		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.28	769 1	30.40	772.1	13	—10.6	70	nw.	6	2.7		0	0			0.09	2.3	clear	T. F. Townsend.
Pike's Peak, Colorado	17.86	453.6	30.56	776.2	6.0	—14.4	69	nw.	25	11.2		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.61	752.1	30.46	773.7	8.5	—13.1	87	sw.	10	4.5		0	0			0.02	0.5	clear	O. D. Stewart.
Poplar River, Montana																			G. A. Garden.
Port Huron, Michigan	29.60	751.8	30.33	770.4	7.8	—13.4	83	w.	6	2.7			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	30.10	764.5	30.15	765.8	6.0	—14.4	76	sw.	1	0.4		0	2 s			0.26	6.6	clear	W. W. Eichelberger.
Portland, Oregon	30.39	771.9	30.46	773.7	31.0	— 0.6	74	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Prescott, Arizona	24.99	634.7	30.37	771.4	21.5	— 5.8	84	sw.	1	0.4		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.16	766.1	30.19	766.8	17.9	— 7.8	67	n.	11	4.9		0	0			0.22	5.6	clear	C. N. Kitchel.
Red Bluff, California	29.93	760.2	30.30	769.6	41	5.0	89	calm	0	0		2 c	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.50	774.7	30.75	781.0	29.8	— 1.2	83	calm	0	0		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.58	751.3	30.28	769.1	11	—11.7	89	sw.	21	9.4			10 k		w.	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.85	758.2	30.42	772.7	32.6	0.3	92	n.	1	0.4			fg.			0	0	dense fog	J. J. Naury.
Sacramento, California	30.22	767.6	30.30	769.6	40.5	4.7	90	se	4	1.8		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.94	760.5	30.60	777.2	16.0	— 8.9	75	nw.	14	6.3		hz.	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.20	743.2	29.29	744.0	33	0.6	94	e.			1		10 s			0	0	cloudy	Fred. H. Clarke
St. Paul, Minnesota	29.27	743.4	30.21	767.3	— 2.0	—18.9	100	se.	2	0.9		0	1 s			0	0	clear	P. F Lyons.
St. Vincent, Minnesota	29.09	738.9	30.07	763.8	0	—17.8	80	nw.	12	5.4		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	26 02	660.9	30.58	776.7	14.7	— 9.6	61	nw.	2	0.9		6 k	0	sw.		0	0	fair	J. Craig.
San Diego, California	30.14	765.5	30.21	767.3	48.0	8.9	42	ne.	4	1.8		0	0			0	0	clear	F. R. Day.
Sandusky, Ohio	29.72	754.9	30.44	773.2	3	—16.1	72	sw.	7	3.1		0	0			0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.32	770.1	30.35	770.9	13.0	—10.6	61	nw.	18	8.0		0	0			0.05	1.3	clear	V. P. Chappel.
Sanford, Florida	30.37	771.4	30.42	772.7	30.0	— 1.1	88	nw.	12	5.4		0	0			0	0	clear	J. B. Marbury
San Francisco, California	30.22	767.6	30.29	769.4	45.5	7.5	93	sw.	3	1.3		0	fg.			0	0	clear	N. Gorom.
Savannah, Georgia	30.35	770 9	30.45	773.4	24.5	— 4.2	62	nw.	11	4.9		0	0			0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.61	675.9	30.47	773.9	29	— 1.7	67	w.	3	1.3		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.36	771.1	30.61	777.5	25.8	— 3.4	70	calm	0	0		0	0			0	0	clear	E. N. Meekins.
Sitka, Alaska	29.94	760.5	30.01	762.2	43.7	6.5	81	e.	26	11.6			10 n		e.	0.59	15.0	light rain	F. W. Fickett.
Smithville North Carolina	30.33	770.4	30.37	771.4	30.5	— 0.8	76	n.	7	3.1		4 ck	10 ks	w.	ne.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.43	722 1	30.57	776.5	2.5	—16.4	75	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.82	757.4	30 55	776.0	10.0	—12.2	80	calm	0	0		0	0			0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.46	697.5	30.60	777.2	24.0	— 4.4	88	s.	3	1.3		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.33	770.4			38.4	3.6	82	e.	20	8.9		0	0			0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.60	701.0	30.43	772.9	32.5	0.3	62	w			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.68	753.9	30.42	772.7	3	—16.1	72	sw.	2	0.9			10 s			0	0	cloudy	A. Buell.
Unalashka, Alaska	28.77	730 7	28.79	731.3	35	1.7	89	sw.	6	2.7			10 n			0.72	18.3	light rain	Samuel Applegate
Vicksburg, Mississippi	30.41	772.4	30.68	779.3	27.0	— 2.8	64	e	1	0.4		0	0			0	0	clear	C. Dill.
Washington, D. C.	30.33	770.4	30.45	773.4	13.2	—10.4	72	nw.	10	4.5		0	0			inap.	inap.	clear	T. B. Harrison.
West Las Animas, Colorado	26.37	669.8	30.50	774.7	7.4	—13.7	100	w.	4	1.8		4 c	0			0	0	fair	F. R. Brandenburg
Wilmington, N Carolina	30.33	770.4	30.39	771.9	32.0	0.0	83	n.	8	3.6			10 s		n.	inap.	inap	cloudy	L. H. Albrecht.
Yankton, Dakota	28.90	734.0	30.32	770.1	15.7	— 9.1	70	w.	6	2.7		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	30.06	763.5	30.21	767.3	54.9	12.7	15	n.	12	5.4		7 c	0	sw.		0	0	fair	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka.	29.67	753.6	29.69	754.1	23.1	— 4.9	87	n.	18	8.0		0	9 n			inap.	inap.	snowing	George Cherulck.
Bluefields, Nicaragua, C. A.					74	23.3		nw			3	0	5 k		ne.	0.30	7.6	fair	W. H. Jackson.
Bogota, U. S. C.	21.99	558.6			48.2	9.0	74	ne.	2	1		2 c	3 k	w.	sw.	0	0		Joaquin Gomez.
Chimo, Fort, Ungava	29.90	759.4	30.06	763.5	—46	—43.3	100	calm	0	0		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.18	766.6	66.2	19.0	87	calm	0	0		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.10	764.5	30.10	761.5	78	25.6	86	e.			3	5 k	8 ps	e.		0.050	1.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	79	26.1	95	s.			1		5 ks		s.	blank	blank	fair	Francisco J. Olmero
Rivas, Nicaragua, C. A.					74.2	23.4	88	ne.			4					0	0	clear	Earl Flint.
York Factory, B. A.	29.30	744.2	29.37	746.0	—18.0	—27.8	100	nw.	39	17.4			10 n		nw.	0.28	7.1	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.98	761.4	29.98	761.6	79.5	26.4	84	n.	13.0	5.8		0	4 k		n.			fair	P. Fasiant.
Naõs, Bay of Panama	29.98	761.4	30.04	763.1	75.2	24.0	93	n			3	0	3 ks		n.			clear	Antonio Fabra.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 40° 22′, W. 65° 27′ †	30.10	764.5				nnw.			4		8		nne.	4 h'r	4 h'r	high	n.e	cloudy.
S. S. Alleghany, Baltimore, Md †	30.47	773.9	12	—11.1		nw.			2		0			0	0			clear.
Schr. Anna A. Holton, N. 35° 14′, W. 71° 52′*†	30.12	765.0	54	12.2		nnw.			6		10		n.	4 h'r	4 h'r	r'gh	n.	overcast.
S. S. Arizona, Sandy Hook, N J	30.31	769.9	15	— 9.4		n			5		2		nw.	0	0	sm'h		blue sky.
S. S. British Prince, N. 50° 47′. W. 33° 36′ †	29.89	759.2	48	8.9		nw.			6		6		nw.	9 h'r	9 h'r	h'vy	w.	fair.
S. S. Belgenland, N. 44° 16′, W. 57° 18′	30.00	762.0	31	— 0.6	80	ene.			2				n.	0	0	sm'h		clear.
S. S. City of Augusta, N. 33° 10′, W. 78° 27′ †	30.38	771.6				ne.			6		8		nw.	0	0			cloudy.
S. S. Canada, (Br) N 49° 08′ W. 13° 06′ †	30.53	775.4	56	13.3		sw.			6		6		sw.	shr's	shr's	h'vy	sw.	fair.
S. S. Canada, (Fr) N. 48° 13′, W. 42° 21′			37.4	? 3.0?		n.			3		10		n.			r'gh	n.	covered.
Bk. Diamant, N. 40° 07′, W. 73° 38′	30.35	770.9	19.8	— 6.8		nw.			5		0					2	nw.	clear.
S. S. Dorian, N. 36° 13′, W. 67° 25′	30.05	763.3	57	13.9		wnw.			6		10		wnw.	h'vy	h'vy	r'gh	w.	overcast.
S. S. Denmark, N. 44° 44′. W. 53° 15′ †	29.96	761.0	32	0.0	89	var.			3		9			8 h'r	8 h'r	sli't	sw.	cloudy.
S. S. Daniel Steinmann, N. 47° 27′, W. 46° 54′ †	29.87	758.7	34	1.1		calm			0		10			o	o	con.	w.	overcast.
S. S. Gen. Werder, N. 49° 55′, W. 22° 06′	30.15	765.8				ssw.			8–9		10		ssw.	o	o	h'vy	sw.	squally.
Bg. Gipsey Queen, N. 37° 35′, W. 72° 54′						n.			7		9		ne	o	o	short	ne.	snow squalls
S. S. Iowa, N. 49° 01′, W 35° 47′ †	29.84	757.9	49	9.4		nw.			4		8		sw.	2 h'r	2 h'r	high	var.	cloudy.
S. S. Llandaff City, N. 47° 30′, W. 43° 22′*†	29.92	760.0	40	4.4		nnw.			4		10		w.	6 h'r	6 h'r	h'vy	var.	dull.
S. S. Labrador, N. 42° 12′, W. 61° 45′ *†	29.96	761.0	33.8	1.		ne.			4		10		nw.			large	nw.	snowing.
Schr. Maggie Abbott, N. 37° 13′, W 74° 50′						nnw.			7		8		n	snow	snow	cross		cloudy
Bk. Matthias, N. 35° 15′, W. 69° 48′*†	30.06	763.5	52.0	11.1		nw.			4–6		10		nnw.	o	o	3-4	n.nw	
S. S. New York, N. 27° 40′, W. 87° 30′ *†	30.50	774.7	57	13.9		nne.			6		5		ne.			mod.	nne.	fair
S. S. Neckar, N. 49° 15′, W. 12° 04′	30.46	773.7	53.0	11.7	93	sw.			4–5		2		sw.	o	o	long	n.	clear.
S S. Nurnberg, N. 43° 18′ W. 54° 21′	29.92	760.0	35.6	2		s.			1		10		s.	2 h'r	2 h'r	mod	w.	misty.
S. S. Oregon, (Br) N. 43° 27′, W. 68° 47′	30.08	764.0	20	— 6.7		nnw.			2		10		nnw.			mod.	nnw.	cloudy.
S. S. Pavonia, N. 51° 15′, W. 14° 06′	30.43	772.9	54	12.2	86	s.			6		4		s.	o	o	long	w.	fair.
S. S. Picqua, N. 40° 50′, W. 65° 30′*†	30.00	762.0	48	8.9	92	n.			4				nw.	12 h'r	12 h'r		e.	cloudy.
S. S. Rhein, N. 46° 39′, W 43° 01′						n.			2		10		n	8 h'r	8 h'r	r'gh	n.	rainy.
S. S. Romano, New York Harbor, N. Y	30.29	769.4	14	—10.0		wnw.			2		5		wnw.					snowy.
Bk. Rosina, N. 34° 30′, W. 71° 48′	30.07	763.8	61	16.1		nw.			8		10		nw.	8 h'r	8 h'r	hv'y	sw.	stormy.
S. S. State of Georgia, N. 43° 54′, W. 54° 06′ †	29.99	761.7	36	2.2		ene.			3		10			light	light	long	ssw.	cloudy.
S. S. Salier, off Montauk Pt, L.I*	30.31	769.9				nnw.			3		0			1 h'r	1 h'r	light	n.	
Bgt. Sunlight, N. 22° 50′, W. 68° 00′†	30.19	766.8				sse.			1		6		se.	½ h'r	½ h'r	sm'h		fair.
S. S. Thingvalla, N. 53° 18′, W. 35° 08′	29.82	757.4	32.9	0.5		w.			2		8		sw.	4 h'r	4 h'r	long	ssw.	cloudy.
S. S. Valencia, La Guayra, Venezuela	30.07	763.8	78	25.6	78	ne.			1		0			o	o	light	ne.	clear.
S. S. Westphalia, N. 42° 28′, W. 61° 55′			44	6.7	?	ne.			6		5		ne.	6 h'r	6 h'r	cross	ne.	fair.
S. S. Zaandam, N. 47° 10′, W. 39° 30′	29.96	761.0	53.2	11.8	76	w.			3		10			10 h'r	10 h'r	h'vy	w.	cloudy
Bk. Ariadne, New York, N. Y.	30.29	769.4	14	—10.0		n.			1		0			8 h'r	8 h'r			clear.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W.I	30.36	771.1	58	14.4		n.			3		8		n.	o	o			cloudy.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.33	770.4				n.			3		8		n.	2 h'r	2 h'r	r'gh	ne.	misty.
Bk. Aureola, N. 11° 30′, W. 51° 52′.			80	26.7		ne.			6		8		ne.	o	o	mod	ne.	cloudy.
U. S. S. Alliance, Santiago de Cuba, Cuba, W. I	30.21	767.3	73	22.8	81	ne.			1		2			o	o	sm'h		clear.
S. S. Bothnia, N. 42° 30′, W. 60° 54′	29.92	760.0	44	6.7	100	nne.			4		10			6 h'r	6 h'r	mod.		overcast.
S. S. Chalmette, N. 32° 50′, W. 77° 00′ †			48	8.9		nnw.			6		10		nnw.	6	o	mod.	nnw.	cloudy.
S. S. Dominion, N. 50° 59′, W 19° 18 *†	30.14	765.5	53	11.7	79	ssw.			7		10		sw.			r'gh	ssw.	cloudy.
Schr. Ellen Crusoe, N. 32° 30′ W. 71° 23′ *†	30.18	766.6				nw.							nnw.	2 h'r	2 h'r	long		cloudy.
S. S. Grecian, Havre, France	30.57	776.5	47	8.3	85	w.			1		10			o	o			overcast.
S. S. Holland, N. 49° 55′ W. 5° 12′			46	7.8		wsw.			4		10		wsw.	o	o	long	wsw.	misty.
Bg. John Welsh, jr., Mobile bar, Ala						n.			6		0							clear.
S. S. Muriel, Trinidad, W. I	30.07	763.8	79	26.1		calm			0					o	o			clear.
S. S. Ontario, N. 51° 05′, W. 24° 28′			52	11.1		wsw.			7		10		w.	3 h'r	3 h'r	cross	w.	hazy.
S. S. Orinoco, New York City †.	30.34	770.6	10	—12.2		wnw.			2		0			4 h'r	4 h'r			clear.
Bk. Saga, N. 26° 15′, W. 63° 58′ *†	30.20	767.0	77	25.0		var.			3		3		var.	½ h'r	½ h'r	light		clear.
S. Storm King, N. 45° 07′. W. 25° 40′*†	30.40	772.1				ssw.			6		10		sw.	6 h'r	6 h'r	mod.	w.e	cloudy.
S. S. Salerno, N. 50° 11′, W. 3° 30′†	30.60	777.2	48	8.9		w.			2		5		w.	o	o	mod.	w.	hazy.
S. S. St. Laurent, Havre, France	30.54	775.7	46.4	8.		ese.			2		9		ese.	2 h'r	2 h'r			cloudy.
U S. S. Swatara, Port au Prince, Hayti, W. I	30.27	768.8	74	23.3	86	sse.			1		0			o	o	sm'h		clear.
U. S. S. Tennessee, Aspinwall, U. S. C	30.03	762.7	79	26.1	78	n.	24	10 7			5		ne.	o	o	mod.	n.	fair.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I	30.07	763.8	75	23.9	81	calm			0		2		calm					clear.
S. S. Venetian, N. 47° 04′, W. 41° 28′ *	29.94	760.5	52	11.1		nne.			1		10			3 h'r	3 h'r	cross		dull.
S. S. Westernland, Antwerp, Belgium	30.49	774.4	46	7.8		wnw.			4		6		nw.	o	o			cloudy.
S. S. Zeeland, N. 49° 37′. W. 8° 44′			53	11.7		wsw.			6		10		wsw.	o	o	long	wsw.	overcast.
S. S. City of Berlin, N. 51° 10′, W. 25° 44′			54	12.2		sw.			7		10							raining.
S. Oreola, N. 7° 41′, W. 25° 50′ *	29.97	761.2				ne.			6		1		ne.	o	o	sm'h		clear.
U. S. Navy Yard, Portsmouth, N. H*	30.21	767.3	3	—16.1	73	nw.	6	2.7			0							clear.
U. S. S. Kearsarge, Leghorn, Italy	30.43	772.9	54	12.2	74	ne.			3		0							clear.
U. S. S. Lancaster, Leghorn, Italy			55	12.8	93	ene.			3		0			o	o	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	30.22	767.6	12	—11.1	100	nnw.			3		10					sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.42	772.7	55	12.8	74	ene.			2		0					sm'h		clear.
U. S. S. Shenandoah, St. Vincent, Cape Verd Ids.			71	21.7	80	ne.			2		2		ne.			sm'h	ne.	fair.
U. S. S. Trenton, Marseilles, France	30.49	774.4	49	9.4	71	nnw.			1		0							clear.
H. M. S. Alexandra, Malta, Mediterranean	30.47	773.9	58	14.4	82	nw.			1		1		nw.					blue sky.
H. M. S. Alecto, N. 4° 51, W. 6° 11′	29.87	758.7	84	28.9		sw.			1							2	sw.	misty
H. M. S. Comus, N. 18° 30′, W. 25° 20′	30.18	766.6	71	21.7	75	nne.			5		7					6	nne.	misty.
H. M. Dockyard, Bermuda, Atlantic	30.02	762.5	65	18.3	94	sw.			3		8		ssw.					d. clouds.
H. M. S. Minotaur, Palma, Majorca, Spain	30.54	775.7	54	12.2	87	calm			0		0							blue sky.
H. M. S. Tyne, N. 4° 47′, W. 20° 05′	29.97	761.2	80	26.7	82	e.			3		5		ene.			2	ene.	misty.
H. M. S. Woodlark, Port Said, Egypt	29.95	760.7	49	9.4	64	nnw.			8		9		wnw.					rainy.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.91	759.8	82.4	28.0	85	sw.			4		0			o	o	2	sw.	
S. S. British Crown, N. 44° 26′, W. 52° 42′†	29.91	759.7	33	0.6		ene.			2		10			4 h'r	4 h'r	sm'h		snowing.
S. S. Ohio, (Am) N. 38° 40′, W. 75° 05′*†	30.34	770.6	15	— 9.4	100	n.			2		1		n.	o	o			clear.
S. S. Pennsylvania, Philadelphia, Pa †	30.37	771.4	14	—10.0	?	w.			5		3		w.	12 h'r	12 h'r			
S. S Polynesian, N. 43° 55′, W. 63° 05′	30.06	763.5	20?	—6.7?		n.			2		8?		nw.	3 h'r	3 h'r	sm'h	e.	clear?
S. S. Prussian, N. 54° 23′ W. 23° 08′			53	11.7		sw.			8		10			3 h'r	3 h'r		wsw.	drizzling.
S. S. Scandinavian, N. 43° 08′, W. 64° 31′	30.04	763.0	24	— 4.4		nnw.			3		10		n.	3 h'r	3 h'r	cross	var.	overcast.
S. S. Sardinian, N. 45° 40′, W. 55° 06′	29.95	760.7	26	— 3.3		ene.			3		9		ene.	12 h'r	12 h'r	sm'h		overcast
S. S. Devonia, N. 40° 23′, W. 69° 24′†	30.05	763.3	32	0.0		nnw.			4		10		nnw.	9 h'r	9 h'r	sli't	ne.	snowy.
S. S. Carroll, N. 43° 08′, W. 67° 28′			22	— 5.6		nw.			var.		10		n;nnw	snow	snow	long	var	snow squalls
S. S. Scythia, N. 46° 05′, W. 38° 20′	29.98	761.5	52	11.1	100	nw.			1		10			20 h'r	20 h'r	hv'y	sw.	raining.
S. S. Bohemia, Hamburg, Germany						w.			6		8		w.	2 h'r	2 h'r			cloudy.
S. S. Frisia, N. 45° 16′. W. 49° 42′	30.01	762.2	32	0.0		e.			3		10		se.	1 h'r	1 h'r	mod.	var.	cloudy.
S. S. Archimedes, (Br) N. 48° 14′, W. 23° 50′	30.15	765.8				ssw.			6		10		sw.	1 h'r	1 h'r	long	var.	overcast.
S. S. Hevelius, Liverpool, Eng			42	5.6		wsw.			6		8		w.	o	o			cloudy.
S. S. Olbers, N. 40° 10′, W. 69° 41′	30.19	766.8	30	— 1.1		nnw.			5		10							foggy.
S. S. Archimede, (It) Leghorn, Italy †	30.56	776.2	60	15.6		e.			2		1		ese.	o	o			clear.
S. S Texas, N. 28° 35′. W. 63° 55′	29.19	741.4	73	22.8	85	sw.			3		5?		sw.	o	o	sm'h		cloudy ?
S. S. Erin, London, Eng			51	10.6		sw.			6		6		sw.	o	o			fine.
S. S. Strassburg, N. 43° 07′, W. 10° 20′	30.59	777.0	58.5	14.7	61	ne.			4		8		ne.	o	o	3	w.	cloudy.
S. S. Rhynland, N. 41° 30′, W. 63° 11′			38	3.3	90	ne.			4		8		nnw.	snow	snow	r'gh.	e.	cloudy.
S. S. Switzerland, N. 50° 18′, W. 14° 43′*†	30.47	773.9				s.			4		5		s.	o	o	mod.	wsw.	threatening.
S.S. Waesland, New York, N. Y	30.32	770.1	15	— 9.4		calm			0		0			8 h'r	8 h'r			clear.
S. S. P. Caland, N. 46° 06′, W. 44° 45′			37.8	3.2	86	ene.			2		10					4	wnw.	cloudy.
S. S. State of Nevada, Glasgow, Scotland			42	5.6		wsw.			4		8		sw.	o	o			cloudy.
S. S. Saxon, Boston, Mass			15	— 9.4		wnw.			1		1							fine.
S. S. Celtic, Liverpool, Eng *†	30.45	773.4	50	10.0		w.			5		2		wsw.	o	o			fine.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. S. Marengo, N. 50° 31′, E. 1° 50′*	30.60	777.2	50	10.0	.....	wsw.	.....	.....	3	.....	2	.....	sw.	0	0	sm'h	wsw.	clear.
Bg. Alcira, N. 23° 17′, W 64° 06′	30.20	767.1	74	23.3	.....	se.	.....	.....	3	.....	6	.....	var.	0	0	mod	se.	cloudy.
S. S. Antonio Lopez, Cadiz, Spain	30.52	775.2	57	13.9	63	ene.	.....	.....	3	.....	4	.....	.....	0	0	.....	.....	fair.
Bgt. Achsah, Clementsport, N. S†	30.03	764.7	5	—15.0	.....	ne.	.....	.....	1	.....	10	.....	ne.	3 h'r	3 h'r	.....	.....	snowing.
Bk. Bayonnaise, N. 34° 20′ W. 50° 26′	.....	.....	67.1	19.5	.....	ssw.	.....	.....	5	.....	5	.....	sw.	3 h'r	3 h'r	sm'h	sw.	fair.
Blt. Chas. Stewart, N. 22° 30′, W. 36° 12′*†	30.36	771.1	74	23.3	.....	ene.	.....	.....	0	.....	5	.....	e	0	0	r'gh	e.	fair.
Schr. C. R. Flint, N. 36° 43′, W. 67° 04′†	30.04	763.0	54	12.2	.....	nne.	.....	.....	4	.....	10	.....	wnw.	3 h'r	3 h'r	r'gh	var.	raining.
Schr. Clotilde, Key West, Fla†	30.35	770.9	62	16.7	.....	n.	.....	.....	6	.....	8	.....	n.	0	0	.....	.....	fair.
Bk. Celestina, N. 30° 09′ W. 18° 01′ *†	30.55	776.0	.....	.....	.....	ne.	.....	.....	3–4	.....	3	.....	ne.	0	0	mod	ne.	fine.
Bk. C. S. Bushnell, N. 38° 10′, E. 2° 02′	30.54	775.7	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	
S. Dora, N 63° 19′, W 5° 54′	.....	.....	.....	.....	.....	nne.	.....	.....	6	.....	10	.....	nne.	8 h'r	8 h'r	h'vy	e.	gale.
S. E. J. Spicer, N. 49° 50′, W. 6° 45′	30.66	778.7	49	9.4	100	wsw.	.....	.....	4	.....	10	.....	nw	0	0	mod.	wnw.	foggy.
S. E. B. Sutton, N. 45° 00′, W 27° 35′ *†	30.42	772.7	59	15.0	100	ssw.	.....	.....	5	.....	10	.....	sw.	rain	rain	mod	wnw.	overcast.
Bk. Fred. W Carlon, N. 35° 34′, W. 72° 20′	.....	.....	.....	.....	.....	nne.	.....	.....	0	.....	7	.....	nnw.	6 h'r	6 h'r	r'gh	var.	cloudy.
S. Hedwig, N 36° 12′ W. 1° 41′	30.52	775.1	57.6	14.2	86	ene.	.....	.....	2	.....	4	.....	ene.	½ h'r	½ h'r	1	e.	fine.
Bk. Heinrich & Tonio, N. 49° 18′, W. 6° 44′	.....	.....	50	10.0	93	sw.	.....	.....	2	.....	10	.....	.....	2 h'r	2 h'r	long	w.	foggy.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.70	779.8	.....	.....	.....	nnw.	.....	.....	5	.....	4	.....	n.	0	0	.....	.....	fine.
S. Henry, N, 40° 29′. W 22° 12′	.....	.....	61.7	16.5	.....	wnw.	.....	.....	2–3	.....	9 s	.....	.....	.....	.....	2	w.	cloudy.
Bk. Idaho, N. 24° 44′, W. 70° 25′ *†	30.28	769.1	.....	.....	.....	wsw.	.....	.....	2	.....	1	.....	.....	1 h'r	1 h'r	sm'h	.....	clear.
Bg. John Wesley, Havana, Cuba, W. I	.....	.....	.....	.....	.....	n.	.....	.....	4	.....	8	.....	w.	1 h'r	1 h'r	.....	.....	cloudy.
Schr. John L. Thomas, Hobbies Cays, C. A†	30.10	764.5	77	25.0	86	n.	.....	.....	4	.....	4	.....	nne.	0	0	mod.	ne.	fair.
Bg. L & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.12	765 0	.....	.....	.....	ene.	.....	.....	2	.....	2	.....	ene.	1½ hr	1½ hr	sm'h	.....	
S. S. Laurel, Manatee River, Fla†	30.49	774.4	44	6.7	.....	n.	.....	.....	4	.....	5	.....	n.	0	0	.....	.....	fair.
S. S. Madrid, London, Eng†	30.63	778.0	54	12.2	87	wnw.	.....	.....	1	.....	9	.....	wnw.	1 h'r	1 h'r	.....	.....	hazy.
S. Parker M. Whitmore, N. 23° 30′, W. 28° 30′ *†	29.95	760.7	76	24.4	.....	s.	.....	.....	2	.....	10	.....	s.	6 h'r	6 h'r	short	nne.	rainy.
S. S. P. de Satrastegui, N. 37° 51′, W. 60° 33′	29.91	759.7	.....	.....	.....	nnw.	.....	.....	6	.....	7	.....	.....	4 h'r	4 h'r	cross	var.	fair.
Bg. Rising Sun, N. 26° 40′, W. 59° 53′†	30.22	767.6	75	23.9	.....	sse.	.....	.....	3	.....	2	.....	sse.	0	0	large	se.	clear.
Bk. Rosalie, N. 39° 22′. W. 31° 54′ *†	30.48	774.2	.....	.....	.....	s.	.....	.....	4	.....	2	.....	ssw.	½ h'r	½ h'r	sm'h	.....	clear.
S. Salisbury, N. 22° 07′, W 32° 07′	30.36	771 1	72.0	22.2	72	ene.	.....	.....	6	.....	3 k	.....	ene.	½ h'r	½ h'r	r'gh	var.	fair.
S. S. City of Alexandria, N. 27° 26′, W. 79° 10′	.....	.....	64	17.8	.....	nw.	.....	.....	5	.....	.....	.....	.....	.....	.....	hv'y	nw.	d. clouds.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	30.13	765.3	67	19.4	84	nne.	.....	.....	4	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Pinta, S. 22° 01′, W. 40° 26′	30.04	763.0	76	24.4	91	sw.	.....	.....	2	.....	8	.....	w	.....	.....	sm'h	.....	cloudy.
H. M. S. Amethyst, S. 34° 57′, W. 55° 00′	30.11	764.8	66	18.9	79	n.	.....	.....	2	.....	3	se.	.....	.....	.....	3	se.	blue sky.
H. M. S. Boadicea, St. Helena, Africa	30.09	764.3	76	24.4	.....	ese.	.....	.....	2	.....	3	ese.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Opal, S. 26° 38′, E. 15° 00′	29.99	761.7	62	16.7	88	s.	.....	.....	3	.....	2	sse.	.....	.....	.....	3	ssw.	blue sky.
S. S. Sirius, Santos, Brazil	30.06	763.5	.....	.....	.....	ese.	.....	.....	3	.....	10	.....	ese.	2 h'r	2 h'r	.....	.....	overcast.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.10	764.5	81	27.2	.....	nw.	.....	.....	4	.....	2	.....	nw.	0	0	.....	.....	clear.
Bkt. Levanter, S. 20° 59′. W. 38° 27′*	30.08	764.0	86	30.0	.....	nnw.	.....	.....	3	.....	3	.....	n.	0	0	light	ne.	fair.
S. St. David, S. 36° 33′, W 27° 40′*†	30.02	762.5	60	15.6	82	ssw.	.....	.....	4	.....	4	.....	ssw.	0	0	light	ssw.	fine.
S. David Stewart, Pernambuco, Brazil†	29.88	758.9	86	30.0	.....	se.	.....	.....	4	.....	3	.....	se.	0	0	.....	.....	
Bk. Godeffroy, S. 43° 21′, W. 38° 32′	29.97	761.2	52.3	11.3	73	ssw.	.....	.....	5	.....	3	.....	ssw.	rain	rain	long	var.	clear.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.26	768.6	36	2.2	55	n.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Adams, Sitka, Alaska†	30.02	762.5	44	6.7	84	e.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	light rain.
U. S. S. Alert, N. 15° 36′, E. 173° 36′	29.92	760.0	78	25.6	73	ene.	.....	.....	4	.....	8?	.....	ne.	.....	.....	mod.	ne.	clear?
U. S. S. Essex, Canton, China	30.17	766.3	66	18.9	79	sse.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Juniata, Shanghai, China	30.37	771.4	45	7.2	84	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	cloudy.
U. S. S. Monocacy, Shanghai, China	.....	.....	44	6.7	84	se.	.....	.....	2	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
U. S. S. Richmond, Shanghai, China	30.39	771.9	46	7.8	84	ese.	.....	.....	2	.....	10	.....	ese.	0	0	.....	.....	cloudy.
H. M. S. Audacious, Hong Kong, China	.....	.....	62	16.7	83	ne.	.....	.....	2	.....	2	ne.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, off Amoy, China	30.20	767.1	60	15.6	77	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	2	.....	blue sky.
H. M. S. Champion, Shanghai, China	.....	.....	37	2.8	.....	se	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.87	758.7	80.5	26.9	80	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	misty.
H. P. M S. Tamega, Macao, China	30.25	768.3	64.4	18.0	75	ese.	.....	.....	3–5	.....	3	.....	.....	0	0	.....	.....	d. clouds.
S. S. Newbern, N. 24° 40′, W. 110° 14′ *†	30.22	767.6	70	21.1	75	nw.	.....	.....	2	.....	3	.....	nnw.	0	0	small	nnw.	clear.
S. S. Columbia, N. 38° 37′, W. 123° 30′*†	30.25	768.3	50	10.0	89	w.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	w.	clear.
S. S. Oregon, Portland, Oregon†	30.44	773.2	31	— 0.6	89	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Willamette, Astoria, Oregon†	30.42	772.7	34	1.1	90	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Alameda, N. 24° 18′, W. 151° 11′†	30.07	763.8	68	20.0	.....	s.	.....	.....	3	.....	2	.....	wnw.	½ h'r	½ h'r	light	ene.	clear.
S. S. Ancon, Pigeon Point, Cal†	30.26	768.6	52	11.1	86	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Chester, San Francisco, Cal.†	30.29	769.4	44	6.7	92	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	
S. S. Orizaba, N. 35° 15′, W. 120° 50′†	30.21	767 3	36	13.3	75	sw.	.....	.....	3	.....	.....	.....	se.	0	0	long	sw.	foggy.
S. S. Queen of the Pacific, Seattle Wash Ter†	30.53	775.4	37	2.8	90	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	.....	foggy.
S. S. State of California, N 41° 06′, W. 124° 30′†	30.35	770.9	50	10.0	86	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	long	sw.	clear.
S. S. City of Pekin, N. 45° 35′, W. 150° 10′	.....	.....	47	8.3	85	ssw.	.....	.....	8	.....	10	.....	ssw.	.....	.....	h'vy	ssw.	squally.
S. S. City of Rio de Janeiro, N. 26° 05′, W. 149° 25′†	30.17	766.3	71	21.7	.....	nne.	.....	.....	6	.....	6f	.....	n.	.....	.....	large	nw.	clear.?
S. S. City of Sydney, Honolulu, Sandwich Islands*†	30.04	763.0	70	21.1	85	ene	.....	.....	1	.....	2 k	.....	ne.	.....	.....	.....	.....	clear.
S. S. Granada, Panama, Panama†	30.00	762.0	75	23.9	81	nw.	.....	.....	1	.....	0	.....	.....	0	0*	light	nw.	clear.
S. S. San Blas, Mazatlan, Mexico†	30.11	764.8	69	20.6	90	n.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	wsw.	clear.
Bk. Alpheus Marshall, N. 15° 12′, E. 151° 32′ *†	29.77	756.1	80	26.7	78	ese.	.....	.....	7	.....	2	.....	ese.	0	0	mod.	nne.	clear.
S. Clarendelet, S. 5° 50′, E. 125° 38′*†	29.89	759 2	.....	.....	.....	wnw.	.....	.....	3	.....	2	.....	wnw.	0	0	sm'h	wnw.	clear.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 14° 00′, W. 89° 59′	30.05	763.3	73	22.8	90	ese.	.....	.....	3	.....	2	.....	.....	0	0	sm'h	.....	clear.
U. S. S. Lackawanna, S. 14° 40′, W. 79° 42′	30.02	762.5	74	23.3	81	sse.	.....	.....	1	.....	5	.....	se.	.....	.....	sm'h	se.	fair.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	71	21.7	95	se.	.....	.....	1	.....	10	.....	se.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru*	30.05	763.3	70	21.1	95	sse.	.....	.....	1	.....	8	.....	.....	.....	.....	sm'h	.....	cloudy.
H. M. S. Clark, S. 36° 50′, E. 174° 48′	29.38	746.2	59	15.0	65	sw.	.....	.....	3	.....	8	.....	.....	.....	.....	sm'h	.....	showery
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.96	761.0	66	18.9	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Nelson, S. 42° 51′, E. 147° 21′	29.42	747.3	58	14.4	?	e.	.....	.....	5	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Sylvia, off Sandy Point, Patagonia	28.27	718.0	50.2	10.1	72	nnw.	.....	.....	4	.....	5	e.	.....	.....	.....	.....	.....	squally.
S. S. Australia, Sydney, N. S. W.	29.75	755.6	66	18.9	.....	ne.	.....	.....	3	.....	2	.....	n.	0	0	.....	.....	clear.
S. S. George S Homer, S. 42° 08′ W. 124° 16′ *†	30.14	765.5	.....	.....	.....	ene.	.....	.....	4	.....	9	.....	e.	24 h'r	24 h'r	long	var	cloudy.
S. Izmir, S. 19° 30′, W. 76° 25′ *	30.27	768.8	.....	.....	.....	calm	.....	.....	0	.....	4	.....	calm	0	0	long	ssw.	fair.
S. St. Francis, S. 24° 31′, W. 89° 45′ *†	30.20	767.1	72	22.2	71	calm	.....	.....	0	.....	1	.....	e.	0	0	rg'h	se.	clear.
S. Grecian, S. 40° 24′, W. 128° 15′†	29.58	751.3	60	15.6	76	e.	.....	.....	5	.....	10	.....	e.	0	0	sm'h	.....	overcast.
S. Henry Failing, S. 42° 50′, W. 130° 45′*†	29.60	751.8	58	14.4	82	e.	.....	.....	4	.....	8	.....	e.	0	0	sm'h	.....	cloudy.
H. M. S. Espiegle, S. 45°, 49′, E. 170° 39′	29.66	753.4	54	12.2	67	sw.	.....	.....	2–5	.....	7	.....	.....	.....	.....	.....	.....	showery.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Majunga, Madagascar	29.79	759.7	83	28.3	87	n	18	8.0	.....	.....	5	.....	ne.	0.39	9.9	sm'h	.....	fair.
U. S. S. Pensacola, Tamatave, Madagascar*	29.74	755.4	83	28.3	71	s.	.....	.....	3	.....	5	.....	ese.	0.38	9.7	gro'd	se.	fair.
H. M. S. Coquette, N. 15° 36′. E. 39° 24′	29.90	759.4	82	27.8	83	e.	.....	.....	1	.....	2	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.98	761 5	76	24.4	95	nne.	.....	.....	5	.....	7	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Orontes, S. 4° 00′, E. 41° 42′	29.89	759 2	79	26.1	100	ne.	.....	.....	6	.....	4	ne.	.....	.....	.....	2	ne.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.86	758.4	82	27.8	83	ssw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Galatia, N. 20° 23′, E. 88° 05′†	29.99	761.7	74	23.3	100	nnw.	.....	.....	1	.....	1	.....	.....	0	0	light	ne.	hazy.
S. S. Port Phillip, S. 9° 58′, E. 82° 34′*	30.01	762.2	80	26.7	.....	var.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	e.	squally.
S. S. Radnorshire, N. 8° 34′, E. 70° 25′ *†	29.98	761.5	.....	.....	.....	nne.	.....	.....	5	.....	1	.....	nne.	0	0	light	ene.	clear.
S. S. Lepanto, N. 16° 10′, E. 57° 03′	30.01	762.2	75	23.9	.....	n.	.....	.....	1	.....	3	.....	ne.	0	0	mod.	nne.	clear.

International Chart I. January 21, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 22, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.49	774.5	59.7	15.4	77	w.			1		0			0	0	clear	Roziere.
Algiers			30.53	775.4	52.9	11.6	80	n.			2		3			0	0	pretty fair	Aubert.
La Galle			30.51	775.0	60.8	16.0	73	wnw.			1		3			0	0	pretty fair	Fonfrède.
Tunis			30.53	775.4	55.4	13.0	64	w.			3		1			0	0	very fair	Delord.
Tebessa					41.7	5.4	78	n			1		3			0	0	pretty fair	Hans.
Geriville					50.0	10.0	39	n.			2		0			0	0	clear	Forfert.
Laghouat			30.56	776.2	52.9	11.6	79	calm			0		0			0	0	clear	Abraham.
Biskra			30.58	776.7	58.6	14.8	76	n.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.81	757.2	58.8	14.9	71	wsw.	19	8.5			10 k					showery	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.29	744.0	29.48	748.8	60	15.6	84	calm			0		8			0.03	0.8	cloudy	Com. I. Short, R.N.
Melbourne, Victoria	29.32	744.7	29.41	747.0	55.8	13.2	86	n	14	6.3			10			0.47	11.9	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.99	761.8	30.57	776.5	39.7	4.3	58	w.			2		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.50	749.2	30.30	769.5	39.2	4.0	73	w.	10.5	4.7			4			0	0		Dr. Wierzbiski
Eperies	29.39	746.6	30.32	770.2	32.4	0.2	87	nw.			2		0			0	0		Julius Mikolik.
Gratz	29.16	740.6	30.47	773.8	38.5	3.6	69	sw.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.86	733.1	30.35	771.0	39.7	4.3	87	wnw.			3		8			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	29.09	738.8	30.50	774.8	34.2	1.2	92	nw.			1		10			0	0		The Staff.
Lemberg	29.17	741.0	30.20	767.1	36.9	2.7	79	nw.			4		10			0.008	0.2		Dr. T. Stanecki.
Pola	30.32	770.0	30.43	772.9	46.2	7.9	90	wnw.			3		fg.			0	0		I. R. Hydrographic Office.
Szathmar	29.84	757.9	30.33	770.3	33.1	0.6	89	w.			3		3			0	0		Joseph Midliuszky, S. J
Szegedin	30.11	764.9	30.41	772.3	42.1	5.6	85	w.			2		0			0	0		Karl Stancel.
Trieste	30.38	771.6	30.48	774.1	45.7	7.6	77	calm			0		0			0	0		Royal Academy.
Vienna	29.71	754.6	30.45	773.4	45.3	7.4	59	w.			2		0			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.64	727.5	30.09	764.3	34.7	1.5	98	sw.			2		8			0.047	1.2	foggy	
Brussels	30.13	765.2	30.34	770.5	41.2	5.1	89	sw.			5		10		sw.	0	0		
Furnes	30.27	768 9	30.29	769.4	47.7	8.7	82	sw.			2		8			0	0		
Maeseyck	30.22	767.7	30.35	770.9	41.9	5.5	72	s.			3		10			0	0		
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			29.88	758.9	51.1	10.6	86	sw.	40	17.9			10					raining	John Hartnup.
Bolton, Sharples	29.34	745.2	29.88	758.9	48.7	9.3	94	ssw.	18	8.0			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.42	747.3	29.82	757.4	49.9	9.9	92	sw.			6		10					raining	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.02	762.5	30.05	763.3	81	27.2	66	ne.			1		3					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	29.98	761.5	30.10	764.5	50.0	10.0	82	sw.			7.0		10					overcast	John McLaren.
Chatham, School M. E.	30.04	763.0	30.22	767.6	48.1	8.9	87	w.			4		10					gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.05	763.3	30.28	769.1	50.4	10.2	95	sw.			6		10					drizzling	The Staff.
Fort Napier, Natal	27.67	702.8	29.98	761.5	81.0	27.2	52	ne.			1		4					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.88	758.9	88	31.1	55	sw.			4		4					d. clouds	J. W. Smith.
Galway, Queen's College	29.77	756.1	29.81	757.2	52	11.1	93	sw.			7		10			0.37	9.4	raining	Wm. Ryan.
Gibraltar, Mediterranean	30.46	773.7	30.51	774.9	56.0	13.3	87	e.			3		7					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	30.02	762.5	30.20	767.1	49.1	9.5	89	sw.			5		10					overcast	The Staff.
Guernsey	30.12	765.0	30.43	772.9	48.0	8.9	92	ssw.			4		8					d. clouds	A. Collenette, F.R.M.S
Kew, Observatory	30.15	765.8	30.19	766.8	49.3	9.6	85	sw.	27	12.1			10					misty	The Staff.
Leicester, Museum	29.74	755.4	29.99	761.7	51.2	10.7	82	sw.			4		10					overcast	J. C. Smith.
Malta, Mediterranean	30.35	770.9	30.43	772.9	58.2	14.6	73	nw.			2		6			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.32	770.1	30.37	771.4	61.5	16.4	63	ne.			3		6					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.93	760.2	30.16	766.1	51.9	11.1	79	sw.			6		10					overcast	The Staff.
Plymouth	30.20	767.1	30.27	768.8	51.0	10.6	94	sw.			5		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.35	745.5	29.45	748.0	39.8	4.3	75						10					hail showers	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.16	766.1	30.23	767.8	36.6	2.6	78	wsw.			1		10					snowing	W. H. Lyne.
Sheffield	29.58	751.3	29.85	758 2	54.3	12.4	74	sw.			6		10			0.44	11.2	raining	W. F. Cooper.
Silloth Rectory	29.68	753 9	29.72	754.9	46.2	7.9	100	sw.			4		10			0.560	14.2	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.87	758.7	48.2	9.0	96	sw.	22	9.8			10					raining	Rev. S. J. Perry.
Strathfield Turgiss					49.4	9.7	87	sw.			5.0		10					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.92	760.0	29.95	760.7	53.9	12.2	91	s.	49	21.9			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	30.10	764.5	30.49	774.4	56.5	13.6	70	nw.	5.0	2.2		8 c	0	w.		0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.02	762.5	30.06	763.5	— 9.0	—22.8		sw.	15.0	6.7		5 cs	0			0	0	d clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.10	766.8	30.23	767.8	— 6	—21.1	88	s.	4	1.8		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.08	764.0	30.16	766.1	—22	—30.0	100	w.	1	0.4		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.60	751.8	29.80	756.9	17.3	— 8.2	55	sw.			4		10 s			0.020	0.5	overcast	Jas. Smith, M. A.
Dalhousie, N. B																			H. A. Johnson.
Father Point, Quebec*	29.72	754.9	29.75	755.6	4	—15.6	63	sw.	30	13.4		10				0.30	7.6	heavy sn w	J. McWilliams.
Fort Garry, Manitoba*	29.18	741.2	30.11	764.8	3	—16.1	87	n.	12	5.4		10 s		n.		0	0	cloudy	James Stewart.
Fredericton, N. B	30.12	765.0	30.19	766.8	—20.9	—29.4	100	calm	0	0		10 s				0	0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B	30.12	765.0	30.18	766.6	22	— 5.6	92	sw.	13	5.8		10 s		sw.		0	0	cloudy	J. Chipman Seeley
Granton, Ontario	28.78	731.0	29.97	761.2	14.5	— 9.7	96	s.	10	4.5		10 n				0	0	overcast	Jas. Grant.
Halifax, N. S*	30.20	767 1	30.35	770.9	0	—17.8	100	calm	0	0		fg				0	0	dense fog	A. Allison.
Hamilton, Ontario	29.52	749.8	29.95	760.7	19.7	— 6.8	91	sw.			3	10 cs	0	sw.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.55	750.6	29.91	759.7	20	— 6.7	80	sw.	26	11.6			10 k		w.	0.04	1.0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.28	769.1	30.32	770 1	2.0	—16.7	95	sw.	3	1.3		2 c	0	sw.		0	0	blue sky	C. H. Rigby.
London, Ontario	29.00	736.6	29.97	761.2	16.3	— 8.7	90	s.			4		10 n			0.30	7.6	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.75	704.8	30.12	765.0	28	— 2.2	92	w.	12	5.4			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	27.98	710.7	30.09	764.3	5	—15.0	96	ne.	4	1.8			10 n		ne.	0.10	2.5	light snow	Rev. J. M. Wellwood.
Montreal, Quebec*	29.64	752.8	29.86	758.4	12	—11.1	76	s.	16	7.2			10 s		w.	inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.55	750.6	29.78	756.4	17.9	— 7.8	80	sw.					10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	28.98	736.1	29.71	754.6	19	— 7.2	84	s.	27	12.1			10 n			0.13	3.3	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.06	738.1	29.85	758.2	15.6	— 9.1	76	sw.			2		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.16	740.7	29.93	760.2	3	—16.1	72	wnw.	8	3.6		8 ck	0	w.		0	0	fair	W. P. Cooke.
Port Dover, Ontario	29.22	742.2	29.97	761.2	17	— 8.3	98	sw.	23	10.3			10 n			inap.	inap.	cloudy	H Morgan.
Port Stanley, Ontario	29.30	744.2	30.00	762.0	20	— 6.7	84	sw.	28	12.5			10 n		sw.	0.04	1.0	cloudy	M. Payne.
Qu Appelle, N. W. T	27.75	704.8	30.23	767.8	6	—14.4		ne.	10	4.5			10 n		calm			light snow	Leslie Gordon.
Quebec, Quebec*	29.44	747.8	29.83	757.7	6	—14.4	83	calm	0	0		10 cs	0			0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.46?	748.3?	29.95?	760.7?	17	— 8.3	80	sw.	5	2.2			10 n			0	0	threatening.	W. H. McIntyre.
St. Andrews, N. B	30.08	764.0	30.14	765.5	11	—11.7	92	sw.	3	1.3			10 n			0	0	cloudy	
St. John, N. B	30.04	763.0	30.20	767.1	0.0	—17.8	84	calm	0	0		0	0			0	0	misty	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			30.08	764.0	23.0	— 5.0		w.			3								The Commandant.
Saugeen, Ontario*	29.03	737.3	29.79	756.7	18	— 7.8	96	sw.	20	8.9			10 s			0.04	1.0	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.57	725.7	29.97	761.2	9.1	—12.7	78	w.	23	10.3			10 n			0	0	overcast	W. Mc Bride, M. A.
Sydney, C. B*	30.24	768.1	30.31	769.9	—14	—25.6	100	se.	2	0.9		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.52	749.8	29.93	760.2	18	— 7.8	87	sw.	35	15.6			10 n		w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.84	732.5	29.98	761.5	17.1	— 8.3	85	s.	25	11.2			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.21	767.3	30.29	769.4	20	— 6.7	80	sw.	9	4.0			10 k		sw.	0.01	0.3	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.06	763.5	30.09	764.3	72.5	22.5	98	e.					10 n			0	0	threatening	I. Garfelt.
Cape Town, The Castle	29.76	755.9			80.2	26.8	55	s.					10 n			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			63	17.2	84									0.03	0.8		J. P. Eustace
Chilian.																			
Coquimbo	29.95	760.6	30.02	762.6	64.4	18.0	90	sw.			2	10	0					cloudy	Samuel Redolez.
Iquique	29.87	758.6	29.89	759.3	74 7	23.7	73	sw.			2							foggy	Rafael Moreno.
Niebla	29 50	749.4	29.61	752.1	65.5	18.6	84	e.			1	0	4 n		nw.	0.244	6.2	fair	Federico Köhling.
Punta Caldera	29.90	759.4	29.98	761.6	69.3	20.7	66	se.			1	6 ck	0	se.				fair	Manuel Tobar.
Punta Corona	29.89	759.3	30.08	764.0				se.			2		10			0	0	cloudy	Francisco Alvarado.
Valparaiso	29.91	759.6	30.04	763.1	64.4	18.0	90	nw.				10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.09	764.3	30.11	764.9	50.5	10.3	82	sse.	8.5	3.8			10			0	0		M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.69	754.2	29.74	755.4	44.1	6.7	86	w.	27	12			10					raining	Oversergent Fischer.
Fanöe	29.72	755.0	29.74	755.5	42.3	5.7	96	wsw.			6		10					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.46	748.3	29.50	749.4	—13.4	—25.2	100	nne.			4		5						S. Kleinschmidt.
Stykkisholm, Iceland	28.93	734.8	28.97	735.9	21.6	— 5.8	87	sw.			6		10					raining	A. O. Thorlacius.
Thorshavn	29.12	739.6	29.14	740.2	34.0	1.1	60	w.	27	12			6					hailing	Overloerer Bergh.
Vestervig	29.49	749.0	29.58	751.4	43.3	6.3	98	wsw.			7		10					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	30.04	763 1			50.0	10		nw.	4.9	2.2		0	6 k			0.114	2.9		Albert Ismalun.
French.																			
Agen, Normal School	29.98	761.5	30.67	779 0	30.9	— 0.6	95	calm			0		10			0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.53	750.0	30.08	764.0	41.0	5	91	wsw.			1		n		ene.	0	0		M. Nicot, Director.
Arras, Normal School			30.35	771.0	42.6	5.9	92	sw.			6		5			0	0	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.48	774.2	30.56	776.2	43.9	6.6	60	nnw.			1		8		sw.	0	0	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.98	761.4	30.57	776.4	36.1	2.3	96	s.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.21	767.4	30.49	774.5	42.1	5.6	85	sw.			1		10		w.	0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.61	752.0	30.53	775.5	32.5	0.3	92	ene.			1					0	0	foggy	M. Gobin, Director.
Bordeaux, Observatory	30.33	770.4	30.61	777.6	31.3	— 0.4	100	ese.			1		10			0.004	0.1	foggy	M. Rayet, Director.
Bourges, Normal School	29.96	760.9	30.54	775.8	33.8	1	88	ssw.			1		n		ssw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	30.22	767.7	30.47	773.9	50.0	10.0	86	sw.			2		10		sw.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.51	774.9	30.58	776 8	49.3	9.6	97	sw.			2		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch	30.17	766.4	30.51	774.9	36.3	2.4	96	sw.			4		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.94	760.4	30.46	773.6	35.4	1.9	82	sse.			1					0	0	misty	M. Noël, Director.
Clermont-Ferrand Obs'y	29.12	739.7	30.58	776.6	30.2	— 1.0	94	w.			1		10			0	0	foggy	M. Allnard, Director.
Cluny, Normal School	29.71	754.7	30.60	777.2	34.9	1.6	93	nw.			1		10			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.65	753.0	30.56	776.1	37.2	2.9	95	w.			1		10 n	w.	w.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.90	708.7	30.49	774.4	49.6	9.8	31	calm			0		0			0	0		M. Jarach, Director.
Grésasque, du Rhone	29.35	745 5	30.50	774.8	52.3	11.3	75	n.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.82	757 4	30.65	778.4	33.4	0.8	100	nne.			1		10			0	0	covered	M. Ablard, Director.
Guéret, Normal School	28.86	733.0	30.54	775.8	28.4	— 2	51	sw.			8		n		ne.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	30.00	762.1	30.60	777.1	35.1	1.7	84	ne.			3		10			0	0	foggy	M. Chauvin, Director.
Lorient, Naval Observatory	30.42	772.6	30.52	775.2	50.0	10.0	62	sw.			2		8	s.	sw.	0.031	0.8	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.49	749.1	30.62	777.7	32.5	0.3	88	se.			1					0.008	0.2		M. André, Director.
Mans, Normal School	30.26	768.7	30.59	777.0	39.4	4.1		sw.			1		10			0.016	0.4	covered	M. Richard, Director.
Marseille, Observatory	30.23	767.8	30.50	774 7	57.2	14.0	63	ene.			1		4		ene.	0	0		M. Stephan, Director.
Montlouis	25.17	639.2	30.01	762.2	46.4	8.0	34	e.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.39	771.9	30.50	774.7	47.5	8.6	59	ne.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.72	754.8	30.54	775.6	37.6	3.2	90	sw.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	30.41	772.5	30.58	776.6	42.8	6.0	76	ssw.			1		10 n	n.		0	0		M. Larocque, Director.
Perpignan, Observatory	30.44	773 1	30.56	776.1	47.7	8.7	54	e.	3.8	1.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.54	547.0			34.2	1.2							0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.47	748.4	30.59	777.0	37.8	3.2	63	s.			1		n			0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.52	648 2			42.6	5.9	30	nw.			2		0			0	0		M. Allnard.
Rochefort, Naval Obs'y	30.58	776.7	30.61	777.5	38.8	3.8	87	nnw.			1		10		n.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.38	771 6	30.61	777.4	41.4	5.2	87	e.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.30	718.7	30.54	775.7	40.5	4.7										0	0	foggy	M. Seger, Director.
Rouen, Normal School	30.49	774.5	30.54	775.7	46.0	7.8	97	s.			1		10	s.		0	0	covered	M. Mouillot, Dir.
St. Lô, Normal School			30.30	769.7	46.6	8.1	83	w.			1		n	w.	w.	0	0		M. Delaplanche, Dir.
Saint Maur, Observatory	30.36	771.1	30.52	775.3	37.2	2.9	93	sw.			2		10			0	0	covered	M. Renou, Director.
Toulouse, Observatory	29.87	758.7	30.61	777.4	31.3	— 0.4	100	nw.			1		10			0	0	covered	M. Baillaud, Director.
Tours	30.38	771.6	30.56	776.1	39.2	4.0	90	se.			1					0.008	0.2		M. de Tastes.
Versailles, Observatory	30.00	762.1	30.50	774.6	36.3	2.4	96	w.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.46	773.7	30.61	777.5	36.1	2.3	93	ne.	2.0	0.9			10 k			0	0	misty	M. Cartier, Director.
German.																			
Ansbach	28.98	736.1	30.51	775.0	35.6	2.0	86	calm			0		10			0	0		Prof. Juedt.
Bamberg	29.52	749.7	30.37	771.4	37.9	3.3	73	ne.			2		10			0	0		Prof. Dr. Hoh.
Berlin	30.04	762.9	30.19	766.7	42.8	6.0	76	sw.			3		7			0	0		Meteorological Institute
Breslau	29.74	755.4	30.28	769.0	41.7	5.4	65	sw.			3		8	nw.		0	0		Royal University Obs'y
Carlsruhe	30.02	762.4	30.50	774.7	38.1	3.4	86	sw.			1		10	sw.		0	0		Albert Senz.
Cassel	29.56	750.8	30.27	768.9	38.8	3.8	91	s.			4		8	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.06	763.4	30.45	773 3	37.9	3.3	87	ssw.			1		10			0	0		Physical Society.
Friedrichshafen	29.05	737.9	30.56	776.1	33.8	1.0	89	sw.			1		10			0	0	hazy	Wilhelm, Chief Tel.
Hamburg	29.97	761.:	30.06	763 4	43.9	6.6	83	wsw.			8		10			0	0	squally	E. Preiser.
Kiel	29.92	759.9	29.93	760.3	44.1	6.7	85	sw.			5		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.84	758.0	30.28	769.1	41.4	5.2	75	sw.			4		9			0	0		H. Leppig, Asst.
Magdeburg	30.00	762.1	30.20	767.1	43.3	6.3	76	sw.			1		10	wnw.		0	0		Weather Observatory.
Memel	29.75	755.6	29.80	756.8	38.3	3.5	85	sw.			6		10 s						Issermann.
Munich	28.60	726.5	30.50	774.6	29.1	— 1.6	95	calm			0		10			0	0	dense fog	Central Station.
Neufahrwasser	29.90	759 5	29.92	759.9	41.5	5.3	76	sw.			5		10			0	0		A. Lothes.
Neustadt, Palatinate	29.91	759.7	30.45	773.3	41.5	5.3	74	sw.			2		7	w.		0	0		Dicknether.
Stuttgart	29.51	749.6	30.45	773.4	37.8	3.2	83	sw.			2		10			0	0		Prof. Dr. Schoder.
Wustrow	29.89	759.2	29.91	759.8	41.9	5.5	89	sw.			4		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.89	759 2	30.28	769.2	50.0	10.0		n.			0.5	0	0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.83	757.7	29.88	759.0	72.9	22.7	76	wsw.	32.0	14.3			3					drizzling	
Deesa	29.43	747.6	29.91	759.8	76.7	24.8	39	wsw.	12.0	5.4			1	sw.		0	0	d. clouds	
Bombay	29.94	760.5	29.98	761 4	76.6	24.8	63	nw.	11.0	4.9			0			0	0	blue sky	
Poona, Yarrowda	28.09	713.4	29.94	760.4	82.6	28.1	33	w.	13.0	5.8			0			0	0	blue sky	
Belgaum	27.40	696.0	29.94	760 3	78.8	26.0	17	calm	2.0	0.9			0			0	0	blue sky	
Lahore	29.16	740.5	29.94	760.2	62.2	16.8	69	calm	0	0			4			0	0	d. clouds	
Roorkee	29.00	736.7	29.94	760.4	63.8	17.7	53	calm	0	0			7	s.		0	0	d. clouds	
Agra	29.35	745.5	29.93	760.2	71.9	22.2	41	calm	0	0			0			0	0	blue sky	
Nagpur	28.90	734.1	29.96	761.0	73.7	23.2	45	s.	5.0	2.2			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.58	726.1	29.97	761.2	70.6	21.4	54	calm	1.2	0.5			2	w.		0	0	d. clouds	
Lucknow	29.55	750.7	29.93	760.3	69.3	20.7	42	wsw.	1.0	0.4			0			0	0	blue sky	
Allahabad	29.63	752.6	29.95	760.8	68.0	20.0	56	calm	0	0			0			0	0	blue sky	
Patna	29.78	756.5	29.98	761.4	65.6	18.7	59	calm	3.2	1.4			2	sw.		0	0		
Hazaribagh	27.91	708.9	29.98	761.4	65.6	18.7	37	wnw.	6.0	2.7			0			0	0	blue sky	
Cuttack	29.91	759.9	29.99	761.7	72.8	22.7	51	nnw.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	29.96	760.9	29.98	761.5	68.2	20.1	63	calm	0	0			0			0	0	blue sky	
Dhubri	29.89	759.2	30.02	762.4	65.4	18.6	81	calm	1.3	0.6			0			0.01	0.3	blue sky	
Chittagong	29.94	760.4	30.03	762.8	68.1	20.1	67	w.	2.2	1.0			6			0	0	d. clouds	
Sibsagar	29.71	754.7	30.07	763.7	58.5	14.7	94	ne.	1.0	0.4			6	sw.	sw.	0.19	4.8	d. clouds	
Jeypore	28.46	722.8	29.93	760.2	69.9	21.1	47	w.	1.6	0.7			7	w.		0	0	d. clouds	
Zanzibar	29.76	755.9	29.78	756.5	84.8	29.3	61	ene.	19.8	8.8			0			0	0	blue sky	
Bellary	28.46	722.9			79.4	26.3	30	e.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.75	755.6			81.5	27.5	40	nne.	0.3	0.1		3	3			0	0	d. clouds	
ITALIAN.																			
Udine	30.03	762.7	30.45	773.5	49.1	9.5	45	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.95	760.6	30.48	774.3	42.8	6.0	61	sw.	2.5	1.1			0			0	0		Prof. G.V.Schiapparelli
Padua	30.34	770.6	30.45	773.5	41.4	5.2	72	calm	0	0			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.54	750.2	30.48	774.1	42.8	6.0	59	n.	0.7	0.3			0			0	0		Prof. F. F. Denza.
Genoa	30.31	769.8	30.50	774.8	54.5	12.5	60	sw.	0.7	0.3			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.43	772.8	30.48	774.1	42.3	5.7	68	n.	6.9	3.1			0			0	0		Prof. Luigi Guidi.
Florence	30.24	768.1	30.50	774.8	40.5	4.7	74	e.			2		0			0	0		Prof. Costantino Pittoi
Leghorn	30.35	770.9	30.44	773.1	50.7	10.4	75	ne.	3.8	1.7			0			0	0		Prof. P. Monte.
Rome	30.29	769.4	30.47	773.9	52.2	11.2	46	n.	0	0			0			0	0		Prof. P. Tacchini.
Lecce	30.16	766.0	30.42	772.6	53.1	11.7	77	nne.	21.0	9.4			3			0	0		Prof. C. de Giorgi.
Cosenza	29.52	749.8	30.44	773.2	46.8	8.2	72	sse.	1.8	0.8			4	e.		0	0		Prof. D. Conti.
Cagliari	30.25	768.4	30.45	773.4	56.7	13.7	66	sw.			2		1			0	0		Prof. A. Pacinotti.
Palermo	30.21	767.3	30.47	773.8	55.4	13.0	67	ne.	2.8	1.1			0			0	0		Prof. G. Cacciatore.
Syracuse	30.37	771.5	30.42	772.7	54.5	12.5	62	nne.	1.8	0.8			2	wnw		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.94	760.4	30.48	774.1	52.2	11.2	70	e.	0	0			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.32	770.2	30.35	771.1	24.4	— 4.2	90	se.			2	0	4 k		w.	0.071	1.8	fair	H. Hattori.
Awomori	30.24	768.1	30.28	769.1	27.2	— 2.7	82	ssw.	13.4	6.0		0	1 s			0.025	0.6	clear	K. Ogawa.
Hakodate	30.24	768.0	30.25	768.3	22.8	— 5.1	96	calm	0	0		0	2 s			0	0	clear	Y. Souma.
Hamamatsu	30.28	769.1	30.38	771.6	31.5	— 0.3	75	calm			0	1 cs	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.37	771.4	30.39	771.8	36.7	2.6	77	ne.	2.6	1.2			10 ck		w.	0.063	1.6	cloudy	Y. Okamoto.
Kagoshima	30.36	771.0	30.37	771.3	41.9	5.5	90	calm			0	0	1 s			0.213	5.4	clear	
Kanazawa	30.26	768.5	30.36	771.3	32.6	0.3	82	e.	7.0	3.1		0	7s;ks			0.019	0.5	cloudy	S. Endo.
Kioto	30.22	767.0	30.39	772.0	28.8	— 1.8	96	nw.	1.0	0.4		0	2 s			0.140	3.6	clear	M. Tojima.
Kochi	30.39	772.0	30.42	772.5	37.0	2.8	91	s.	2.1	0.9		0	7 s			0.114	2.9	cloudy	K. Kusunose.
Miasaka	30.37	771.4	30.40	772.1	42.1	5.6	91	wnw.			1		10 s		w.	0.004	0.1	cloudy	K. Masusaki.
Miyako	30.20	767.1	30.31	769.9	28.0	— 2.2	64	wsw.	1.7	0.7		0	1 s		nw.	0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.11	764.8	30.32	770.1	47.7	8.7	78	e.	3.6	1.6		0	8 s		sw.	0.010	0.2	cloudy	
Nemuro	30.16	766.1	30.21	767.3	21.6	— 5.8	69	calm	0	0		2 k	0			0	0	clear	A Shibuya.
Niigata	30.33	770.4	30.37	771.4	33.2	0.7	95	sw.	2.2	1.0			10 s			0.005	0.1	covered	Satoo & Tomikawa.
Nohiru	30.33	770.3	30.34	770.7	34.4	1.3	79	nw.	4.2	1.9			10 ks			0	0	overcast	Yoslino & Midzushina.
Numadzu	30.33	770.4	30.37	771.3	39.4	4.1	75	ene.			2		9 s		w.	0	0	cloudy	T. Ohgi.
Osaka	30.38	771.7	30.40	772.1	32.8	0.4	81	ne.	5.0	2.2		10 cs	0			0.115	2.9	cloudy	H. Omura.
Sakai	30.33	770.4	30.34	770.7	36.4	2.4	79	n.			2		10 ks		nw.	0.079	2.0	cloudy	Yamawchi & Sakamoto.
Sapporo	30.16	766.2	30.24	768.0	12.8	—10.7	85	s.	1.8	0.8		0	0			0	0	clear	S. Kimura.
Shimonoseki	30.19	766.8	30.33	770.5	42.8	6.0	79	ne.			2		10 ks			0.169	4.3	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.31	769.9	30.39	772.0	30.7	— 0.7	75	s.	3.3	1.4		0	7ks;ck		w.	0	0	fair	The Staff.
Wakayama	30.33	770.4	30.39	771.8	34.1	1.2	71	ne.	2.1	0.9		0	0			0.087	2.2	clear	K. akai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.48	748.8	29.67	753.6	77.1	25.1	85	se.	24.5	11.0			10ks;n		ese.	1.04	26.4	overcast	The Staff.
MEXICAN.																			
Leon	24.48	621.8	30.42	772.7	34.5	1.4	90	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.83	757.6	30.09	764.3	67.0	19.4	89	ene.	5.3	2.3		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.29	769.4	30.29	769.4	44.6	7.0		sw.			5					0	0		
Groningen	30.09	764.2	30.14	765.6	44.2	6.8		wsw.			4					0	0		
Helder	30.07	763.7	30.07	763.7	45.3	7.4		sw.			6					0.677	17.2		
Hellevoetsluis	30.26	768.7	30.26	768.7	49.8	9.9	85	sw.			5					0	0		
Utrecht	30.21	767.2	30.26	768.6	43.9	6.6	89	ssw.			5		7			0.146	3.7	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.82	757.5			78.4	25.8	87	n.	0	0			5			0.677	17.2		Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.26	743.1	29.32	744.7	41.7	5.4	78	wsw.	22	10			10			0.118	3.0	snowing	
Brono	28.61	726.6	28.65	727.6	36.5	2.5	82	wsw.			7		8			0.453	11.5	raining	
Christiania	29.06	738.2	29.21	741.9	43.9	6.6	57	wsw.	9	4			2			0	0		
Gjæsvær	28.60	726.4	28.62	727.0	19.4	— 7.0		se.			6		2			0	0		
Lodingen	28.37	720.5	28.41	721.7	34.7	1.5	85	ssw.			6		10			0.413	10.5	hailing	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira																			Capt. D. A. de Cunha.
Lisbon, Observatory	30.47	773.8	30.55	776.0	63.0	17.2	46	ene.	2.5	1.1			2	ne.		0	0		The Staff.
Ponta Delgada, Azores	30.26	768.5	30.61	777.4	48.4	9.1	66	nne.	11.2	5.0			0			0	0		
Saint Paul de Loando	30.05	778.5	30.72	780.3	63.3	17.4	70	calm	0	0			3			0	0		
St. Vincent, Cape Verd Ids.	30.08	764.0	30.12	765.0	69.1	20.6	69	ene.			6		3			0	0		
San Salvador, Congo	28.11	713.9	29.94	760.5	77.4	25.2	66	sw.			3		10			0.315	8.0		
Serra da Estrella	25.70	652.7	30.53	775.5	44.6	7.0	30	sse.	4.3	1.9			0			0	0		
RUSSIAN.																			
Akmolinski	28.71	729.1	29.91	759.6	— 1.7	—18.7	94	w.	13	6			9 n			0.012	0.3		Major K. Lasarew.
Archangel	29.19	741.5	29.21	742.0	12.6	—10.8	76	wsw.	18	8		0	0			0	0		Capt. Sselliwerstow
Ashuruda	30.05	763.3	29.96	760.9	47.7	8.7	83	ene.	7	3			9 kn			0.232	5.9		
Astrakhan	30.12	765.1	30.04	763.1	25.3	— 3.7	82	se.	7	3			10 ks			0	0		Capt. Wisganow.
Baku	30.01	762.3	29.97	761.1	38.5	3.6	93	calm	0	0			10 n			0.346	8.8		
Barnaul	29.43	747.6	29.97	761.3	12.4	—10.9	97	sw.	9	4			10			0.024	0.6		Meteorological Office.
Bielosersk	29.11	739.3	29.61	752.0	11.5	—11.4	82	wnw.	4	2		0	0			0.035	0.9		
Dorpat	29.35	745.6	29.61	752.0	29.7	— 1.3	84	ssw.	11	5			10 n			0.063	1.6		Observatory.
Ekaterinburg	28.58	725.8	29.61	752.1	7.7	—13.5	87	w	22	10			10 n			0.020	0.5	snowing	Meteorological Obs'y.
Elissawetgrad	29.39	746.4	29.85	758.2	34.3	1.3	92	wnw.	13	6			10 n			inap.	inap.		
Kasan	29.29	743.9	29.57	751.0	23.0	— 5.0	93	s.	4	2			10			0	0		Observatory.
Kem	29.19	741.4	29.24	742.7	11.5	—11.4	71	sw.	13	6		0	4 ks			0	0	light clouds	
Kertch	29.89	759.3	29.92	759.9	27.5	— 2.5		calm	0	0			10 n					snowing	Lagorio & Sastyres.
Kieff	29.15	740.4	29.81	757.1	34.9	1.6	91	nw.	20	9			10 ks					light rain	Observatory.
Koslov	29.02	737.1	29.55	750.5	21.7	— 5.7	88	ssw.	13	6			10 s			0	0		
Lgov	29.69	738.8	29.69	754.0	34.5	1.4	91	wsw.	9	4			10			0	0		R. I. Ssaweljew, Engin'r.
Libau	29.66	753.3	29.68	753.9	38.7	3.7	92	sw.	22	10			10			0.028	0.7		P. Quass.
Lugan	29.63	752.5	29.85	758.1	13.3	—10.4	77	sw.	13	6			10			0.008	0.2		Meteorological Obs'y.
Moscow	29.03	737.3	29.52	749.8	30.9	— 0.6	87	nw.	7	3			10 n			0.020	0.5		Meteorological Obs'y.
Nertschinsk	27.84	707.2	30.45	773.3	— 8.0	—22.2	79	nw.	4	2			0			0	0		

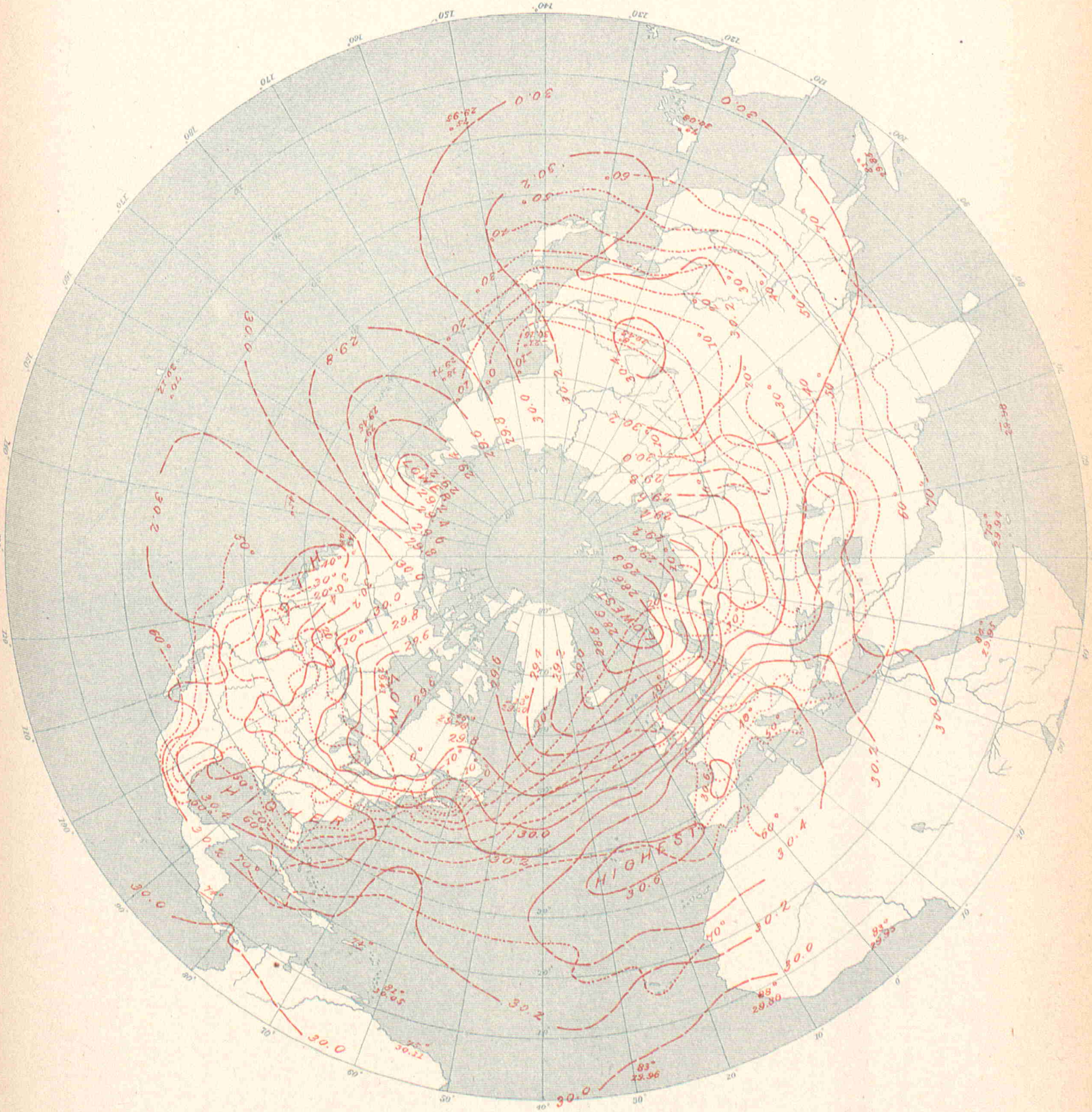
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaiev	29.87	758.6	29.94	760.4	36.7	2.6	82	w.	13	6			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.07	763.8	30.16	766.0	—21.3	—29.6	80	w.	2	1		0	0						Iwanow.
Pekin, China	30.06	763.5	30.20	767.1	28.2	— 2.1	73	calm	0	0		1 c	0			0	0		Physical Observatory
Petro-Alexandrovsk	29.72	754.9	30.10	764.4	28.4	— 2.0	72	n.	3.4	1.5			10 ks						
Petrozavodsk	29.28	743.8	29.50	749.2	11.8	—11.2	68	ssw.	11	5		4 cs	0			0.079	2.0		Dr. Bergmann.
Pinsk	29.52	749.8	30.04	762.9	34.9	1.6	76	wnw.	13	6			10 s			0.016	0.4		
Poti	30.00	761.9	30.03	762.7	36.3	2.4	94	nw.	9	4			10 n			0.024	0.6	raining	
St. Petersburg	29.58	751.3	29.60	751.9	13.3	—10.4	80	s.	9	4			10 s;n			0.020	0.5		Central Physical Obs'y.
Samarkand	27.48	698.1	29.99	761.8	45.0	7.2	96	calm	0	0			10 n					raining	
Semipalatinsk	29.33	744.9	30.03	762.8	17.4	— 8.1	91	s	11	5			10			0.020	0.5		Major Lasarew
Sevastopol	29.76	756.0	29.98	761.6	37.9	3.3	80	n.	20	9			10 n			0.276	7.0		
Staroi Bykhov	29.23	742.4	29.80	757.0	34.5	1.4	82	nw.	22	10			10			0.094	2.4		
Tashkend, Laboratory	28.28	718.4	29.98	761.4	47.3	8.5	48	n.	9	4			10 n					heavy clouds	Terch, A. M
Tiflis	28.54	725.0	30.02	762.6	33.6	0.9	84	calm	0	0			10			0.079	2.0	light snow	Physical Observatory.
Vernoe	27.39	695.8	30.00	762.0	30.9	— 0.6	75	sw.	2	1		0	4 k						
Viatka	28.76	730.6	29.42	747.2	24.4	— 4.2	99	ssw.	13	6			10			0.039	1.0		
Vladivostock	30.11	764.7	30.17	766.4	18.5	— 7.5	92	ene.	9	4			10 k			0	0		
Warsaw	29.73	755.1	30.17	766.3	36.7	2.6	84	w.	22	10			9 k			0.098	2.5	h'vy clouds.	Astronomical Obs'y.
Yeniseisk	29.99	761.8	30.33	770.3	—15.5	—26.4	81	calm	0	0			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.92	734.6	29.49	749.0	30.4	— 0.9	88	n.	17	7.6			10 ks		n.	0.05	1.3	cloudy	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.40	772.1	30.51	775.0	55.9	13.3	65	e.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.54	775.7	30.60	777.2	47.3	8.5	77	se.	0.9	0.4		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.54	699.4	30.65	778.4	41.2	5.1	61	n.	3.1	1.4		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.29	718.5	30.60	777.1	49.1	9.5	40	s.	3.4	1.5		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.39	771.8	30.49	774.5	60.4	15.8	65	sw.	0.4	0.2		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.62	752.4	30.54	775.8	50.9	10.5	58	nw.	1.3	0.6			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.31	769.8	30.38	771.5	58.4	14.7	54	nne.	11.2	5.0		0	2 k		ne.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.02	762.6	30.08	764.1	72.2	22.3	80	nne.	5.5	2.5		0	k			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.45	773.5	30.55	776.1	60.6	15.9	65	e.	10.3	4.6		2	4	e.	e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.87?	758.7?	29.90?	761.0?	73.8	23.2	98	calm	0	0		3 c	5 k	e.	e.	0.343	8.7	raining	Enrique Gaden, Chf Eng
SWEDISH.																			
Haparanda	28.81	731.7	28.85	732.7	26.2	— 3.2	100	s.			7		10			0.102	2.6	snowing	
Umea	28.84	732.4	28.89	733.7	31.6	— 0.2	96	sw.			2		9			0.087	2.2		
Hernosand	28.91	734.3	28.96	735.6	32.0	0.0	92	w.			2		10			0	0		
Stockholm	29.05	737.8	29.22	742.3	40.3	4.6	84	wsw.			7		10			0.063	1.6		
Wisby	29.42	747.3	29.48	748.8	39.9	4.4	87	wsw.			7		10			0	0		
Sub-series.																			
Upsala	29.66	738.1	29.15	740.3	39.7	4.3	89	sw.	17.9	8.0			8		wsw.	0.031	0.8		H. H. Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.29	769.3	37.2	2.9	72	nw.	4	2.0			10		n.	0	0		The Observatory.
Valona			30.36	771.2	55.8	13.2		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.91	759.8	43.7	6.5	88	se.			2		10 n		sw.	0.975	24.8		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.10	764.5	30.19	766.8	16.9	— 8.4	36	sw.	11	4.9		4 cs	3 s	w.	w.	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.04	737.6	29.75	755.6	24	— 4.4	73	sw.	8	3.6		9 k	0	w.		0.01	0.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	30.18	766.6	30.0	— 1.1	80	ne.	1	0.4		0	8 s			0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.27	692.6	30.31	769.9	25.0	— 3.9	88	sw.	1	0.4		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.26	743.2	30.48	774.2	22.0	— 5.6	58	w.	5	2.2		0	0			0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.33	770.4	30.34	770.6	26.0	— 3.3	77	sw.	12	5.4		2 c	0			0	0	clear	B. A. Blundon.
Augusta, Georgia	30.37	771.4	30.57	776.5	25	— 3.9	88	calm	0	0		0	sk.			0	0	clear	W. J. Evans.
Baltimore, Maryland	30.32	770.1	30.37	771.4	20	— 6.7	76	w.	5	2.2		3 k	0	nw.		0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.31	770.6	30.36	771.1	19.5	— 6.9	84	sw.	12	5.4		0	0			0	0	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.40	721.3	30.14	765.5	22.0	— 5.6	73	calm	0	0			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.41	696.2	30.39	771.9	22.0	— 5.6	48	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.11	714.0	30.11	764.8	23.0	— 5.0	73	nw.	3	1.3			10 s		nw.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.28	769.1	30.32	770.1	22.0	— 5.6	68	nw.	17	7.6		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.50	698.5	30.43	772.9	8	—13.3	87	w.	2	0.9		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	30.04	763.0	30.21	767.3	14.0	—10.0	60	sw.	14	6.3		0	2 s			0	0	clear	O. B. Cole.
Brownsville, Texas	30.27	768.8	30.33	770.4	52.0	11.1	93	e.	6	2.7		0	5 k			0	0	fair	John McGlone.
Buffalo, New York	29.21	741.9	30.00	762.0	16	— 8.9	88	sw.	22	9.8			10 s		sw.	0.01	0.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.89	708.4	30.12	765.0	22	— 5.6	100	w.	14	6.3			10 n		w.	0.01	0.3	light snow	A. Schneider.
Cairo, Illinois	29.86	758.4	30.28	769.1	31.0	— 0.6	78	sw.	12	5.4		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	30.22	767.6	30.42	772.7	36.0	2.2	81	e.	7	3.1		0	0			0	0	clear	J. H. Young.
Cape Henry, Virginia	30.43	772.9	30.45	773.4	20.0	— 6.7	70	s.	8	3.6		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.34	770.6	30.37	771.4	29.0	— 1.7	77	sw.	22	9.8		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.61	752.1	30.31	769.9	42	5.6	92	ne.	16	7.2			fg.		ne.	0	0	dense fog	A. P. Leavitt.
Cedar Keys, Florida	30.54	775.7	30.56	776.2	27.0	— 2.8	41	n.	4	1.8		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.46	773.7	30.52	775.2	29.2	— 1.6	88	calm	0	0		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.56	750.8	30.46	773.7	22.2	— 5.4	51	s.	2	0.9		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.62	752.3	30.48	774.2	22.0	— 5.6	73	sw.	2	0.9		0	sk			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.96	608.6	30.23	767.8	20.1	— 6.6	64	w.	15	6.7		0	5 s			0	0	fair	E. McGovern.
Chicago, Illinois	29.19	741.4	29.94	760.5	24.4	— 4.2	69	sw.	8	3.6		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.39	771.9	30.41	772.4	25.4	— 3.7	80	nw.	5	2.2		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.53	750.0	30.22	767.6	25.5	— 3.6	75	sw.	8	3.6		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.26	743.2	30.04	763.0	17.0	— 8.3	74	s.	15	6.7		1 c	0			0	0	clear	W. Line.
Columbus, Ohio	29.27	743.4	30.17	766.3	16.3	— 8.7	73	se.	6	2.7		6 k	0	s.		0	0	fair	F. T. Williams.
Concho, Fort, Texas	28.22	716.8	30.24	768.1	35.3	1.8	72	s.	20	8.9		0	7 s		s.	0	0	fair	C. E. King.
Custer, Fort, Montana	26.91	683.5	30.29	769.4	8	—13.3	58	e.	8	3.6		0	0			0	0	clear	W. J. Daily.
Davenport, Iowa	29.28	743.7	29.99	761.7	25	— 3.9	73	w.	7	3.1		2 ck	fg.	w.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.18	639.6	30.16	766.1	34.2	1.2	81	calm	0	0		0	5 s		s.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.80	731.5	30.61	777.5	18.5	— 7.5	100	sw.	2	0.9			fg.			0	0	dense fog	H. S. Blandford.
Deadwood, Dakota	25.32	643.1	30.28	769.1	28.0	— 2.2	80	s.	1	0.4		0	0			0	0	clear	G. Kingsbury.
Delaware Breakwater, Del.	30.37	771.4	30.39	771.9	20.2	— 6.6	82	s.	13	5.8		hz.	0			0	0	clear	G. A. Martin.
Denver, Colorado	24.71	627.6	30.23	767.8	29.4	— 1.4	60	s.	2	0.9		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.09	738.9	30.06	763.5	24	— 4.4	61	w.	2	0.9		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.24	742.7	30.00	762.0	22.5	— 5.3	73	w.	12	5.4			10 s			0.03	0.8	cloudy	N. B. Conger.
Dodge City, Kansas	27.39	695.7	30.14	765.5	20	— 6.7	73	w.	5	2.2		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.22	742.2	29.99	761.7	19.5	— 6.9	70	w.	7	3.1		0	0			0	0	clear	J. Harvey Smith
Duluth, Minnesota	29.11	739.4	29.92	760.0	17.0	— 8.3	83	w.	4	1.8			10 s			0	0	cloudy	E. R. Brace.
Eastport, Maine	30.08	764.0	30.15	765.8	18.0	— 7.8	74	s.	4	1.8			10 s		sw.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.24	691.9	30.16	766.1	32	0.0	78	sw.	9	4.0		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.38	670.0	30.26	768.8	34.3	1.3	82	calm	0	0		0	7 k		e.	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.28	743.7	30.05	763.3	18.5	— 7.5	84	s.	18	8.0			10 s		s.	inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.07	738.4	29.79	756.7	14.0	—10.0	80	w.	8	3.6		6ck;cs	0	n.		0	0	fair	L. M. Pindell.
Fort Smith, Arkansas	29.79	756.7	30.29	769.4	27.5	— 2.5	88	e.	4	1.8		4 cs	0	w.		0	0	fair	J. B. Campbell.
Galveston, Texas	30.36	771.1	30.40	772.1	46	7.8	83	se.	2	0.9		5 cs	fg.	s.		0	0	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.15	740.4	29.86	758.4	31.0	— 0.6	72	sw.	11	4.9			10 s		sw.	inap.	inap.	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.27	641.8	30.17	766.3	34.5	1.4	67	e.	2	0.9		3cs;ck	0	s.		0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.48	774.2	30.49	774.4	28.0	— 2.2	77	n.	8	3.6	.....	3 k	0	se.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	26.07	762.2	30.45	773.4	4	—15.6	76	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.56	725.4	30.10	764.5	18.8	— 7.3	85	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.24	742.7	30.08	764.0	23.0	— 5.0	70	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans
Indianola, Texas	30.33	770.4	30.36	771.1	46.0	7.8	83	se.	8	3.6	.....	4 k	0	s.	.....	0	0	fair	I. A. Reed.
Jacksonville Florida	30.52	775.2	30.57	776.5	27.7	— 2.4	83	nw.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.32	744.7	30.02	762.5	26.5	— 3.1	73	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.36	771.1	30.38	771.6	53	11.7	72	ne.	18	8.0	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.49	774.4	30.51	774.9	25.2	— 3.8	72	nw.	2	0.9	.....	0	0	.....	.....	0.02	0.5	clear	Wesley Blake.
Knoxville, Tennessee	29.40	746.7	30.48	774.2	15.9	— 8.9	95	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.11	739.4	29.95	760.7	18	— 7.8	67	w.	3	1.3	.....	0	6 s	.....	w.	0	0	fair	S. C. Emery.
Leavenworth, Kansas	29.14	740.1	30.10	764.5	28	— 2.2	82	s.	1	0.4	.....	2 c	0	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	29.78	756.4	30.64	778.2	24.0	— 4.4	73	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	30.00	762.0	30.33	770.4	33.0	0.6	78	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.80	756.9	30.20	767.1	40.5	4.7	70	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.63	752.6	30.22	767.6	29.0	— 1.7	77	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.65	753.1	30.37	771.4	21.0	— 6.1	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.03	737.3	29.73	755.1	22.5	— 5.3	52	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.51	774.9	30.52	775.2	27.2	— 2.7	61	n.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.66	651.8	30.42	772.7	24.8	— 4.0	42	nw.	32	14.3	.....	.....	10 n	.....	nw.	0.01	0.3	light snow	F. Burke.
Marquette, Michigan	29.00	736.6	29.78	756.4	14.3	— 9.8	65	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.99	761.7	30.35	770.9	32.5	0.3	72	s.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.10	739.1	29.90	759.4	21.0	— 6.1	72	w.	10	4.5	.....	3 cs	0	w.	.....	0	0	clear	S. W. Rhode.
Mobile, Alabama	30.50	774.7	30.54	775.7	26.6	— 3.0	79	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	H. U. Jones.
Montgomery, Alabama	30.30	769.6	30.54	775.7	26	— 3.3	82	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.94	735.1	30.04	763.0	12.5	—10.8	80	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.31	592.8	29.97	761.2	7.1	—13.8	78	nw.	45	20.1	.....	0	3 s	.....	nw.	0.03	0.8	clear	Edwd. A. Beals.
Nashville, Tennessee	29.75	755.6	30.36	771.1	25.5	— 3.6	86	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	L. N. Jesunofsky
New Haven, Connecticut	30.17	766.3	30.29	769.4	11.1	—11.6	61	sw.	4	1.8	.....	3 c	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.27	768.8	30.32	770.1	18.0	— 7.8	54	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.45	773.4	30.51	774.9	35.5	1.9	89	se.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	M. Herman.
New York, New York	30.14	765.5	30.33	770.4	13.0	—10.6	80	sw.	11	4.9	.....	0	4 s	.....	.....	0	0	fair	H. J. Penrod.
Norfolk, Virginia	30.42	772.7	30.44	773.2	22.7	— 5.2	60	sw.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.09	688.1	30.21	767.3	11.9	—11.2	83	w.	6	2.7	.....	0	6 k	.....	w.	0	0	fair	J. J. Mc Leane
Olympia, Washington T'y	30.46	773.7	30.50	774.7	35.0	1.7	89	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb
Omaha, Nebraska	28.82	732.0	30.09	764.3	25.6	— 3.6	76	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	29.64	752.8	29.99	761.7	22.8	— 5.1	33	s.	13	5.8	.....	.....	10 s	.....	w.	0.28	7.1	cloudy	J. G. Linsley.
Palestine, Texas	29.78	756.4	30.36	771.1	37.8	3.2	67	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.54	775.7	30.56	776.2	27.2	— 2.7	61	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.24	768.1	30.35	770.9	19	— 7.2	53	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.61	448.0	30.34	770.6	2.0	—16.7	66	nw.	27	12.1	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.32	744.7	30.17	766.3	21.0	— 6.1	70	s.	14	6.3	.....	0	8 s	.....	w.	0	0	cloudy	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. A. Garden.
Port Huron, Michigan	29.19	741.4	29.92	760.0	16.0	— 8.9	83	s.	22	9.8	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.09	764.3	30.14	765.5	18.0	— 7.8	67	s.	14	6.3	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.40	772.1	30.47	773.9	29.0	— 1.7	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.85	631.2	30.23	767.8	23.5	— 4.7	82	sw.	2	0.9	.....	0	4 s	.....	.....	0	0	fair	N. D. Lane.
Provincetown, Mass.	30.24	768.1	30.27	768.8	24.5	— 4.2	88	sw.	14	6.3	.....	0	8 ks	.....	sw.	0	0	cloudy	C. N. Kitchel.
Red Bluff, California	29.92	760.0	30.29	769.4	41.5	5.3	69	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.24	768.1	30.49	774.4	38.5	3.6	87	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y.	29.29	744.0	30.00	762.0	17	— 8.3	74	sw.	18	8.0	.....	10 c	0	w.	.....	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.86	758.4	30.43	772.9	28	— 2.2	92	se.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. Nanry.
Sacramento, California	30.21	767.3	30.29	769.4	38.5	3.6	94	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.46	748.3	30.12	765.0	36.0	2.2	69	sw.	24	10.7	.....	0	sk.	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.12	739.6	29.16	740.7	24	— 4.4	100	se.	.....	.....	4	.....	10 n	.....	.....	0.02	0.5	light snow	Fred. H. Clarke
St. Paul, Minnesota	29.04	737.6	29.98	761.5	16.0	— 8.9	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.12	739.6	30.10	764.5	6.5	—14.2	63	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.86	656.8	30.43	772.9	14.2	— 9.9	48	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.11	764.8	30.18	766.6	47.0	8.3	93	ne.	6	2.7	.....	2 cs	0	w	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.30	744.2	30.02	762.5	18	— 7.8	67	sw.	10	4.5	.....	0	5 s	.....	sw.	0	0	fair	B. F. Hough.
Sandy Hook, New Jersey	30.31	769.9	30.34	770.6	15.0	— 9.4	48	sw.	14	6.3	.....	2 k	0	.....	.....	0	0	clear	Y. P. Chappel.
Sanford, Florida	30.44	773.2	30.49	774.4	31.5	— 0.3	78	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. B. Maroury
San Francisco, California	30.24	768.1	30.31	769.9	48.0	8.9	93	se.	1	0.4	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Savannah, Georgia	30.47	773.9	30.57	776.5	27	— 2.8	64	nw.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.52	673.6	30.38	771.6	30	— 1.1	70	w.	9	4.0	.....	0	4 s	.....	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	30.13	765.3	30.38	771.6	32.7	0.4	86	s.	3	1.3	.....	0	4 s	.....	s.	0	0	fair	E. N. Meekins.
Sitka, Alaska	30.31	769.9	30.38	771.6	45.4	7.4	88	e.	4	1.8	.....	.....	10 n	.....	e.	2.03	51.6	light rain	F. W. Fickett.
Smithville North Carolina	30.50	774.7	30.54	775.7	22.5	— 5.3	86	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.45	722.6	30.59	777.0	14	—10.0	83	w.	1	0.4	.....	.....	10 k	.....	w.	0	0	cloudy	D. Moore.
Springfield, Illinois	29.34	745.2	30.06	763.5	29.0	— 1.7	82	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.08	687.8	30.22	767.6	34.0	1.1	82	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	30.38	771.6	.....	.....	39.0	3.9	84	e.	14	6.3	.....	0	0	.....	.....	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.36	694.9	30.19	766.8	32.8	0.4	57	w.	.....	.....	1	0	8 s	.....	.....	0	0	cloudy	R. C. Lord.
Toledo, Ohio	29.25	742.9	29.99	761.7	17.5	— 8.1	87	sw.	4	1.8	.....	5 cs	2 s	sw.	.....	inap.	inap.	fair	A. Buell.
Unalashka, Alaska	29.43	747.5	29.45	748.0	29	— 1.7	88	sw.	12	5.4	.....	.....	10 n	.....	.....	0.14	3.6	light snow	Samuel Applegate
Vicksburg, Mississippi	30.19	766.8	30.46	773.7	32.5	0.3	68	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	C. Dill.
Washington, D. C.	30.25	768.3	30.37	771.4	18.3	— 7.6	82	sw.	2	0.9	.....	1 k	0	sw.	.....	0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.05	661.7	30.18	766.6	12	—11.1	87	w.	6	2.7	.....	2 k	0	w.	.....	0	0	clear	F. H. Brandenburg
Wilmington, N. Carolina	30.49	774.4	30.55	776.0	27.4	— 2.6	70	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	28.69	728.7	30.11	764.8	25.3	— 3.7	72	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	29.95	760.7	30.10	764.5	42.9	6.1	68	calm	0	0	.....	0	8 s	.....	w.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka.	29.69	754.1	29.71	754.6	18.4	— 7.6	81	n.	19	8.5	.....	.....	10 n	.....	.....	0	0	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	.....	nw.	.....	.....	2	.....	10 n	.....	ne.	0.17	4.3	drizzling	W. H. Jackson.
Bogota, U. S. C.	21.99	558.5	.....	.....	50.9	10.5	68	e.	2	1	.....	2cs;k	3 k	nw.	w.	0.402	10.2	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.62	752.3	29.78	756.4	—40	—43.3	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.16	766.1	69.9	21.1	87	calm	0	0	.....	0	4 s	.....	.....	0	0	fair	Robert Johnstone.
Paramaribo, S. A.	30.10	764.5	30.11	764.8	75	23.9	90	ne.	.....	.....	2	5 ck	6 k	e.	.....	0.010	0.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	78	25.6	89	s.	.....	.....	1	0 ck	3 ks	s.	s.	0	0	cloudy	Francisco J. Cisnero.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73.8	23.2	90	ne.	.....	.....	3	.....	.....	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	29.34	745.2	29.41	747.0	—27.0	—32.8	.....	n.	38	17.0	.....	.....	10 n	.....	n.	0.50	12.7	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.97	761.2	29.98	761.4	79.2	26.2	84	n.	12.8	5.7	.....	0	4 k	.....	n.	.....	.....	fair	P. Fasiani.
Naós, Bay of Panama	29.95	760.6	30.01	762.3	73.4	23.0	93	nw.	.....	.....	4	0	1 k	.....	n.	.....	.....	clear	Antonio Fabre.

Vessels with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic																		
S.S. Assyrian Monarch, N. 40° 22′, W. 59° 21′†	30.40	772.1				ne.			4		6		ne.	2 h'r	2 h'r	mod.	n.	fair.
S. S. Alleghany, Norfolk, Va †	30.49	774.4	16	— 8.9		nw.			2		0			0	0			clear.
Schr. Anna A. Holton, N. 34° 54′, W. 72° 21′			52	11.1		n.			2		8		ne.	6 h'r	6 h'r	mod.	n.	cloudy.
S. S. Alps, N. 38° 41′, W. 73° 03′			45	7.2		sw.			2		2		sw.	0	0	short		fine.
S. S. British Prince, N. 50° 04′ W. 39° 21′			46	7.8		sw.			5		10		sw.	12 h'r	12 h'r	mod.	sw.	cloudy.
S. S. Belgenland, N. 41° 42′, W. 63° 14′*†	30.35	770.9	33	0.6	89	n.			2				n.	0	0	sm'h		clear.
S. S. City of Augusta, Savannah, Ga						nnw.			4		4		nw.	0	0			clear
S. S. Canada, (Br.) N. 49° 36′, W. 6° 22′ †	30.33	770 4	54	12.2		sw.			7		10		sw.	0	0	r'gh	sw	misty.
S. S. Canada, (Fr.) N. 49° 08′, W. 34° 25′			51.8	11		s.			4	cs		s.		0	0	r'gh	s.	clear.
S. S. Dorian, N 37° 06′, W. 69° 40′	30.39	771.9	49	9.4		wnw.			2		4		wnw.	12 h'r	12 h'r	mod.	w.	fair.
S. S. Denmark, N. 43° 10′, W. 58° 15′ †	30.35	770.9	25	— 3.9	88	nw.			6		9		nw.	9 h'r	9 h'r	mod.	wnw.	cloudy.
S. S. Daniel Steinmann, N. 45° 34′, W. 49° 29′†	29.97	761.2	32	0.0		w.			7		9		wnw.	0	0	h'vy	w.	hail sq'ls.
S. S. Gen. Werder, N. 49° 35′ W. 26° 57′	30.03	762.7				w.			5		8		w.	10 h'r	10 h'r	h'vy	sw.	clearing
Bg. Gipsy Queen, N. 38° 05′ W. 73° 00′						w.			2		2		w.	0	0	sm'h		
S. S. Iowa, N. 50° 07′, W. 28° 43′ †	29.94	760.5	54	12.2		wsw.			4		8		wsw.	12 h'r	12 h'r	high	var.	cloudy.
S. S. Landaff City, N. 46° 13′, W. 47° 31′*†	30.00	762.0	38	3 3		s.			5		10		w.	sh'rs	sh'rs	h'vy	con.	dull.
S. S. Labrador, N 41° 14′, W. 67° 01′ *†	30.32	770.0	32.0	0.0		w.			4		7		sw.			sm'h	w.	fair.
Schr. Maggie Abbott, N. 37° 50′, W. 75° 13′						sw.			6		0			0	0	sm'h		clear.
Bk. Matthias, N. 35° 00′, W. 71° 14′ *†	30.37	771.4	51.0	10.6		nnw.			3		4		n	2 h'r	2 h'r	3		fair.
S. S. New York, N. 24° 47′ W. 83° 45′*†	30.40	772.1	60	15.6		ne.			5		2		ne.			mod.	ese.	clear.
S. S. Neckar, off Start Pt, Eng	30.23	767.8	51.0	10.6	100	sw.			5–6		8		wsw.	rain	rain	long	sw.	cloudy.
S. S. Nurnberg, N. 42° 04′, W. 60° 12′			35.6	2.0		n.			4–5		9		w.	4 h'r	4 h'r	sm'h	nw.	cloudy.
S. S. Pavonia, N. 50° 39′, W. 20° 16′	29.87	758.7	58	14.4	93	wsw.			6		10			10 h'r	10 h'r	r'gh	wsw.	rainy.
S. S. Picqua, N. 42° 25′, W. 68° 14′			32	0.0		sw.			6				n.	0	0		sw.	cloudy.
S. S. Rhein, N. 44° 55′, W. 50° 01′	29.97	761.2				w.			5		9		w.	0	0	mod.	w.	covered
S. S. Romano, New York Harbor, N Y	30.32	770.1	10	—12.2		w.			3		4		w.					snowy.
Bk. Rosina, N. 33° 55′, W. 73° 04′			58	14.4		nnw.			2		5		nw.	0	c	mod.	n.	fair.
J. S. State of Georgia, N. 42° 10′ W. 59° 45′ †	30.40	772.1	34	1.1		nnw.			4		5		w	sh'rs	sh'rs	sm'h		fair.
Bgt. Sunlight, N. 23° 50′, W. 68° 30′ †	30.18	766.6				se.			1		3		ssw.	0	0	sm'h		fair.
S. S. Thingvalla, N. 51° 02′, W. 40° 15′†	29.75	755.6	36.5	2.5		wsw.			4		10		w.	3 h'r	3 h'r	h'vy	w.	snowing.
S. S. Valencia, Puerto Cabello, Venezuela †	30.05	763.3	73	22.8	81	sw.			1		3		ene.	0	0			clear.
S. S. Westphalia, N. 40° 14′, W. 69° 57′	30.30	769.6	28	— 2.2	100	nw.			6		4		w.	0	0	sm'h	w.	fair.
S. S. Zaandam, N. 45° 49′, W. 44° 14′			52.9	11.6	86	ssw.			5		10			9 h'r	9 h'r	long	w.nw	raining.
S. S. Andes, N. 18° 00′, W 75° 20′ *†	30.20	767.1	80	26.7		e.			2		1		e.	0	0			
Bk. Ariadne, New York, N. Y	30.36	771.1	14	—10.0		w.			2		0			0	0			clear.
Schr. Annie R Lewis, Cienfuegos, Cuba, W. I†	30.34	770.6	57	13.9		n.			1		2		ne.	0	0			clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.31	769.9				ne.			3		4		ne.	0	0	r'gh	ne.	fair.
Bk. Aureola, N. 13° 48′, W. 54° 24′ †	30.05	763.3	80	26.7		ne.			5		4		ene.	0	0	mod.	ene.	fair.
U. S. S. Alliance, N. 19° 49′, W. 73° 20′	30.15	765.8	76	24.4	82	nne.			4		5?			0	0	sm'h		clear?
S. S. Bothnia, N. 41° 12′, W. 67° 20′	30.35	770.9	39	3.9	100	w.			3		5		w.	3 h'r	3 h'r	sm'h		fair.
S. S. Chalmette, N. 36° 42′, W. 74° 55′†	30.48	774.2	33	0.6		wsw.			4		2			0	0	sm'h		clear.
S. S. Dominion, N. 51° 04′ W. 12° 26′ *†	30.00	762.0	55	12.8	100	ssw.			5		10		ssw.			r'gh	ssw.	cloudy.
Schr. Ellen Crusoe, N. 52° 15′, W. 71° 00′ *†	30.36	771.1				n.							nne.	4 h'r	4 h'r	long		fair.
S. S. Grecian, Havre, France			46	7.8	85	ssw.			2		10		sw.	0	0			overcast.
S. S. Holland, N. 49° 48′, W 10° 51′			45	7.2		wsw.			6		10		wsw.	0	0	r'gh	wsw.	hazy.
Bg. John Welsh, jr., Mobile, . la						n.			5		0							clear.
S. S. Muriel, Trinidad, W. I	30.08	764.0	79	26.1		calm			0		0			0	0	sm'h		clear.
S. S. Ontario, N. 51° 32′, W. 29° 18′	29.83	757.7	48	8.9		var.			2		9		wsw.	2 h'r	2 h'r	cross		overcast.
S. S. Orinoco, New York, N. Y †	30.28	769.1	14	—10.0		sw.			2		0			0	0			clear.
Ek. Saga, N. 27° 08′, W. 65° 30′ *†	30.15	765.8	75	23.9		var.			4		7		var.	6¾ hr	6¾ hr	mod.	wnw.	raining.
S. Storm King, N. 47° 19′, W. 21° 27′*†	30.28	769.1				sw.			6		10		sw.			long	sw.	foggy.
S. S. Salerno, N. 49° 35′, W. 7° 51′ †	30.40	772.1	50	10.0		w.			5		10		w.	0	0	r'gh	wsw.	hazy.
S. S. St. Laurent, Havre, France			46.4	8		sw.			4		8		sw.	0	0			cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.24	768.1	76	24.4	73	calm			0		0			0	0			clear.
U. S. S. Tennessee, Aspinwall, U. S. C	29.99	761.7	79	26.1	78	n.	18	8.0			8		ne.	0	0	long	ne.	cloudy.
U. S. S. Vandalia, Port of Spain, Trinidad, W.I	30.04	763.0	76	24.4	77	calm			0		2							clear.
S. S. Venetian, N. 48° 37′, W 34° 40′*	29.96	761.0	50	10.0		ese.			1–2		10		sse.	7 h'r	7 h'r	h'vy	cross	raining.
S. S. Westernland, Antwerp, Belgium			48	8.9		wsw.			4		10		wsw.	1 h'r	1 h'r			overcast.
S. S. Zeeland, N. 49° 40′, W. 14° 30′ *†	30.08	761.0	53	11.7		sw.			6		10			6 h'r	6 h'r	long	wsw.	hazy
S. S. City of Berlin, N. 50° 30′, W. 32° 40′	29.88	758.9	47	8.3		w.			2									cloudy.
S. Oreola, N. 4° 56′, W. 24° 37′*	29.96	761.0				ese.			5		8?		ne.					clear.?
U. S. Navy Yard, Portsmouth, N. H.			8	—13.3	78	wsw.	7	3.1			0			0	0			clear.
U. S. S. Kearsarge, Leghorn, Italy	30.45	773.4	52	11.1	79	nne.			2		0							hazy.
U. S. S. Lancaster, Leghorn, Italy			57	13.9	87	ene.			1		0			0	0	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	30.27	768.8	21	— 6.1	85	sw.			5		0					sm'h		clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.45	773.4	53	11.7	80	ene.			2		0					sm'h		clear.
U. S. S. Shenandoah, St. Vincent, Cape Verde Ids *	30.15	765.8	70	21.1	90	ne.			4		2					mod	w.	fair.
U. S. S. Trenton, Marseille, France	30.54	775.7	54	12.2	72	w.			1		2		w.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.50	774.7	58	14.4	76	nw.			1		2	nw.						d. clouds.
H. M. S. Alecto, N. 4° 11′, W. 8° 00′	29.89	759.2	83	28.3		w.			1							2	wsw.	misty.
H. M. S. Comus, N. 20° 20′, W. 26° 30′	30.22	767.6	70	21.1	80	nne.			5		10					6	nne.	squally.
H. M. Dockyard, Bermuda, Atlantic	30.10	764.5	62	16.7	66	sw.			4		8	wsw.						drizzling.
H. M. S. Minotaur, Palma, Majorca, Spain	30.48	774.2	53.5	11.9	80	sse.			1		0							blue sky.
H. M. S. Tyne, N 7° 46′. W. 21° 08′	29.98	761.5	79	26.1	82	n.			4		0					4	nne.	misty.
H. M. S. Woodlark, Port Said, Egypt	30.08	764.0	52	11.1	66	wnw.			6		6	wnw.						showery.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.93	760.2	83.3	28.5	81	s.			3		0			0	0	2	sw.	
S. S. British Crown, N. 46° 24′, W. 47° 43′			36	2.2		wsw.			6		9		w.	4 h'r	4 h'r	mod.	sw.	
S. S. Ohio, (Am.) Philadelphia, Pa			13	—10.6	100	sw.			1		1		n.	0	0			clear.
S. S. Pennsylvania, Philadelphia, Pa †	30.38	771.6	9	—12.8	?	wsw.			5		0			0	0			
S. S. Prussian, N. 53° 35′, W. 26° 08′	29.77	756.1	44	6.7		wsw.			5		8		wsw.	1 h'r	1 h'r	cross	w.	cloudy.
S. S. Sardinian, N. 47° 46′, W. 49° 31′	29.91	759.7	25	— 3.9		n.			5		10		n.	4 h'r	4 h'r	sm'h		overcast.
S. S. Devonia, N. 41° 48′, W. 62° 50′ †	30.31	769.9	30	— 1.1		n.			2		9		ne.	0	0	sm'h		cloudy.
S. S. Carroll, Halifax, N.S*†	30.40	772.1				nw.			1		10		nw.					
S. S. Scythia, N. 48° 28′, W. 32° 19′	29.96	761.0	53	11.7	100	calm			0		7?		ne.	18 h'r	18 h'r	sm'h	var.	clear.?
S. S. Bohemia, Hamburg, Germany						w.			9–10		10		w.	8 h'r	8 h'r			overcast.
S. S. Frisia, N. 46° 56′, W 42° 59′	29.93	760.2	44	6.7		se.			3		10		w.	2 h'r	2 h'r	long	sw.	covered.
S. S. Archimedes, (Br.) N. 49° 32′ W. 18° 20′	30.04	763.0				sw.			6		10		sw.	mist	mist	long	wsw.	misty.
S. S. Hevelius, Liverpool, Eng			45	7.2		sw.			8		10		sw.	8 h'r	8 h'r			cloudy.
S. S. Peniers, N. 13° 56′, W. 26° 10′	30.11	764.8	71	21.7	?	nne.			6		8 k		ssw.	0	0	long	ne.	misty.
S. S. Olbers, N. 41° 09′, W. 64° 12′			34	1.1	90	n.			3		9?							fair?
S. S. Archimede, (It.) N. 41° 12′, E. 11° 30′			60	15.6		n.			2		3		ene.	0	0	sm'h		clear.
S. S. Texas, N. 27° 35, W. 68° 32′*†	30.20	767.1	67	19.4	84	ene.			2		5?		ene.	0	0	sm'h		cloudy?
S. S. Erin, London, Eng	30.28	769.1	52	11.1		sw.			7		7		sw.	4 h'r	4 h'r			cloudy.
S. S. Strassburg, N. 46° 51′, W. 7° 30′	30.53	775.4	53	11.7	77	wsw.			3–4		10		wsw.	0	0	4	wsw.	cloudy.
S. S. Rhynland, N. 43° 23′, W. 57° 35′	30.43	772.9	30	— 1.1	89	wnw.			4		10		nnw.	0	0	mod.	n.	cloudy.
S. S. Switzerland, N. 49° 47′ W. 00° 20′ *†	30.32	770.1				s.			4		10		s.	0	0	mod.	s.	cloudy.
S. S. Waesland, New York, N. Y	30.31	769.9	15	— 9.4		ssw.			2		0			0	0			clear.
S. S. P. Caland, N. 48° 15′, W. 38° 41′			47.1	8.4	97	sw.			4		10		e.			3	sw.	raining.
S. S. State of Nevada, Glasgow, Scotland *†	29.75	755.6	39	3.9		wsw.			5		10		sw.	rain	rain			heavy rain.
S. S. Saxon, Boston, Mass			19	— 7.2		sw.			1		1							fine.
U. S. Celtic, Liverpool, Eng*†	29.93	760.2	51	10.6		sw.			6		10		ssw.	1 h'r	1 h'r			raining.
S. S. Marengo, N. 52° 30′, E. 1° 56′*†	30.10	764.5	46	7.8		sw.			6		10		sw	3 h'r	3 h'r	sl't	sw.	overcast.
Bg. Alcira, N. 22° 06′, W. 65° 13′	30.15	765.8	75	23.9		e.			2		4		ese.	0	0	sl't	e.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.53	775.4	56.5	13.6	66	ne.			1		2			0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bgt. Achsah, Clementsport, N.S.†	30.15	765.8	12	—11.1	.....	sse.	.....	.....	4	.....	10	.....	sse.	.....	.....	.....	.....	cloudy.
Bk. Bayonnaise, N. 34° 58′, W. 46° 45′†	.....	.....	66.2	19	.....	ssw.	.....	.....	5	.....	6	.....	sw.	.....	.....	h'vy	sw.	fair.
Bk. Chas. Stewart, N. 25° 00′, W 36° 00′	.....	.....	72	22.2	.....	ene.	.....	.....	7	.....	5	.....	e.	light	light	r'gh	e.	fair.
Schr. C. R. Flint, N. 35° 16′, W. 65° 35′†	30.38	771.6	56	13.3	.....	ne.	.....	.....	3	.....	8	.....	nne.	10 h'r	10 h'r	r'gh	nne.	raining.
Schr. Clotilde, Key West, Fla†	30.37	771.4	56	13.3	.....	ne.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Celestina, N. 27° 34′, W. 19° 20′ *†	30.53	775.4	.....	.....	.....	ene.	.....	.....	4	.....	3	.....	ne.	0	0	mod.	ne.	hazy.
Bk. C. S. Bushnell, N. 38° 02′, E 2° 12′	30.54	775.7	.....	.....	.....	nnw.	.....	.....	2	.....	5	.....	nnw.	0	0	.....	.....	
S. Dora, N. 64° 08′, W. 5° 54′	.....	.....	.....	.....	.....	w.	.....	.....	9–10	.....	8	.....	w.	8 h'r	8 h'r	h'vy	var.	gale.
S. E. J. Spicer, N. 50° 47′, W. 10° 20′	30.06	763.5	54	12.2	100	sw.	.....	.....	6	.....	10	.....	wsw.	12 h'r	12 h'r	long	var.	raining.
S. E. B. Sutton, N. 47° 10′, W. 24° 00′ *†	30.28	769.1	59	15.0	100	sw.	.....	.....	6	.....	10	.....	sw.	rain	rain	mod	w.	drizzling.
Bk. Fred W. Carlon, N. 33° 10′, W. 71° 30′	.....	.....	.....	.....	.....	nnw.	.....	.....	6	.....	5	.....	nnw.	4 h'r	4 h'r	r'gh	nw.	squally.
S. Hedwig, N. 36° 12′, W. 15° 11′	30.54	775.5	57.2	14.0	80	nne.	.....	.....	2	.....	4	.....	nne.	0	0	.....	e.	fine.
Bk. Heinrich & Tonio, N. 50° 06′, W 2° 26′	.....	.....	51	10.6	91	sw.	.....	.....	5	.....	10	.....	sw.	3 h'r	3 h'r	mod.	w.	rainy.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.57	776.5	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	fine.
S Henry, N. 39° 53′, W. 20° 28′	.....	.....	59.9	15.5	.....	Nnw.	.....	.....	2–3	.....	2 8	.....	.....	.....	.....	2	nw.	clear.
Bk. Idaho, N. 23° 48′, W. 70° 47′*†	30.29	769.4	.....	.....	.....	nnw.	.....	.....	5	.....	10	.....	nnw.	7 h'r	7 h'r	r'gh	nw.	raining.
Bg. John Wesley, Havana, Cuba, W.I	.....	.....	.....	.....	.....	n.	.....	.....	6	.....	8	.....	n.	0	0	.....	.....	cloudy.
Schr. John L. Thomas, Hobbles Cays, C. A†	30.10	764.5	75	23.9	86	n.	.....	.....	6	.....	8	.....	nne.	½ h'r	½ h'r	h'vy	nne.	threatening.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.08	764.0	.....	.....	.....	calm	.....	.....	0	.....	3	.....	ene.	½ h'r	½ h'r	.....	.....	
S. S. Laurel, off Tampa, Fla†	30.49	774.4	38	3.3	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Madrid, London, Eng†	30.23	767.8	52	11.1	80	ssw.	.....	.....	7	.....	10	.....	ssw	0	0	.....	.....	cloudy.
S. Parker M. Whitmore, N. 3° 00′, W. 29° 01′*†	29.96	761.0	83	28.3	.....	calm	.....	.....	0	.....	10	.....	e.	10 h'r	10 h'r	short	nne.	rainy.
S. S. P. de Satrastegui, N. 38° 31′, W. 55° 03′	30.24	768.1	.....	.....	.....	n.	.....	.....	6	.....	10	.....	.....	5 h'r	5 h'r	cross	var.	raining.
Bg. Rising Sun, N. 25° 44′, W. 59° 25′†	30.20	767.1	75	23.9	.....	ese.	.....	.....	4	.....	2	.....	ese.	0	0	long	se.	clear.
Bk. Rosalie, N. 41° 20′, W. 30° 14′*†	30.50	774.7	.....	.....	.....	sw.	.....	.....	5	.....	3	.....	wsw.	½ h'r	½ h'r	long	w.	clear.
S. Salisbury, N. 21° 02′, W. 36° 06′	30.36	771.1	70.0	21.1	82	ene.	.....	.....	7	.....	10 ku	.....	var.	4 h'r	4 h'r	h'vy	var.	cloudy.
S. S. City of Alexandria, Havana, Cuba, W. I.*†	30.32	770.1	66	18.9	.....	nne.	.....	.....	4	.....	.....	.....	.....	.....	.....	mod.	nne.	
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.99	761.7	70	21.1	90	n.	.....	.....	3	.....	8	.....	calm	.....	.....	sm'h	.....	fair.
U. S. S. Pinta, Rio de Janeiro, Brazil	30.20	767.1	70	21.1	95	s.	.....	.....	2	.....	10	.....	s.	.....	.....	.....	.....	rainy.
H. M. S. Amethyst, S. 35° 03′, W. 50° 16′	29.97	761.2	71	21.7	83	n.	.....	.....	4	.....	4	ese.	.....	.....	.....	2	n.	d. clouds.
H. M. S. Boadicea, St. Helena, Africa	30.04	763.0	75	23.9	.....	se.	.....	.....	2–4	.....	2	ese.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Opal, S. 28° 46′, E. 16° 08′	29.95	760.7	67	19.4	69	calm	.....	.....	0	.....	10	.....	.....	.....	.....	2	sse.	overcast.
H. P. M. S. Tejo, S. 6° 33′, E 12° 32′	30.11	764.7	81.5	27.5	92	sw.	.....	.....	3	.....	7	.....	.....	3 h'r	3 h'r	3	sw.	d. clouds.
S. S. Sirius, Santos, Brazil	30.15	765.8	.....	.....	.....	ese.	.....	.....	2	.....	5	.....	ese.	5 h'r	5 h'r	.....	.....	fair.
Bg. Daphne, S 1° 12′ W. 32° 22′*†	29.92	760.0	81	27.2	78	ese.	.....	.....	1	.....	3	.....	var.	12 h'r	12 h'r	sm'h	var.	hazy.
Bk. Horace Scudder, St Paul de Loando, Benguela*†	30.10	764.5	80	26.7	.....	n.	.....	.....	4	.....	2	.....	nne.	0	0	.....	.....	clear.
Bkt. Levanter, S. 22° 06′, W. 38° 48′*	30.12	765.0	74	23.3	.....	e.	.....	.....	3	.....	10	.....	.....	0	0	long	s.	cloudy.
S. St. David, S. 34° 17′, W. 26° 14′*†	30.40	772.1	63	17.2	83	s.	.....	.....	6	.....	7	.....	s.	½ h'r	½ h'r	high	s.	fine.
S. David Stewart, Pernambuco, Brazil†	29.85	758.2	80	30.0	.....	se.	.....	.....	3	.....	2	.....	se.	0	0	.....	.....	
Bk. Godeffroy, S. 41° 01′, W. 36° 36′	30.22	767.6	54.9	12.7	80	nw.	.....	.....	5	.....	5	.....	var.	0	0	long	sw.	fair.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.36	771.1	33.5	0.8	70	calm	.....	.....	0	.....	10	.....	sw.	0	0	.....	.....	gloomy.
U. S. S. Adams, Sitka, Alaska†	30.36	771.1	44	6.7	92	se.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	light rain.
U. S. S. Alert, N. 15° 42′, E. 171° 54′	29.95	760.7	78	25.6	82	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	mod.	ene.	clear.
U. S. S. Essex, Canton, China	30.15	765.8	70	21.1	75	ssw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Juniata, Shanghai China	.....	.....	55	12.8	87	sse.	.....	.....	1	.....	10	.....	calm	0	0	.....	.....	cloudy.
U. S. S. Monocacy, Shanghai, China	.....	.....	53	11.7	01	sse.	.....	.....	2	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
U. S. S. Richmond, Shanghai, China	30.16	766.1	54	12.2	87	sse.	.....	.....	2	.....	10	.....	sse.	0	0	.....	.....	cloudy
H. M. S. Audacious, Hong Kong, China	30.12	765.0	65	18.3	89	ne.	.....	.....	2	.....	7	ne.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Cleopatra, off Amoy, China	30.13	765.3	61	16.1	88	calm	.....	.....	0	.....	0	.....	.....	.....	.....	1	.....	blue sky.
H. M. S. Champion, Shanghai, China	30.14	765.5	56	13.3	94	s.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.85	758.2	81.1	27.3	80	nne.	.....	.....	3	.....	8	e.	.....	.....	.....	.....	.....	misty.
H. P. M. S. Tamega, Macao China	30.17	766.4	64.4	18.0	80	ese.	.....	.....	2	.....	1	.....	.....	0	0	.....	.....	d. clouds.
S. S. Newbern, La Paz, Mexico*†	30.25	767.8	69	20.6	75	nw.	.....	.....	2	.....	0	.....	.....	0	0	small	.....	clear.
S. S. Oregon, Portland, Oregon †	30.44	773.2	27	— 2.8	88	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Willamette, Astoria, Oregon	.....	.....	32	0.0	100	ene.	.....	.....	3	.....	1	.....	e.	0	0	.....	.....	clear.
S. S. Alameda, N. 21° 51′ W. 156° 05′†	30.12	765.0	70	21.1	85	ne.	.....	.....	3	.....	1	.....	ne.	light	light	mod.	ene.	fair.
S. S. Ancon, San Francisco, Cal. †	30.26	768.6	49	9.4	85	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	foggy.
S. S. City of Chester, San Francisco, Cal†	30.29	769.4	47	8.3	7	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	
S. S. Orizaba, N. 33° 40′, W. 118° 25′†	30.19	766.8	54	12.2	74	sw to w	.....	.....	2	.....	0	.....	.....	0	0	long	sw.	clear.
S. S. Queen of the Pacific, Seattle, Wash. Ter†	30.54	775.7	34	1.1	90	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	.....	foggy.
S. S. State of California, N. 46° 00′, W. 124° 10′†	30.45	773.4	37	2.8	100	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	long	sw.	clear.
S. S. City of Pekin, N. 44° 40′, W. 144° 35′	.....	.....	45	7.2	70	sw.	.....	.....	4	.....	5	.....	w.	.....	.....	large	var.	fair.
S. S. City of Rio de Janeiro, N. 23° 36′, W. 153° 40′	30.17	766.3	74	23.3	.....	nne.	.....	.....	6	.....	6?	.....	ne.	.....	.....	mod.	wnw.	clear.?
S. S. City of Sydney, N. 22° 26′, W. 155° 38′*†	30.10	764.5	72	22.2	76	ne.	.....	.....	4	.....	3 k	.....	ne.	.....	.....	mod.	ne.	clear.
S. S. Granada, Panama, Panama †	29.97	761.2	74	23.3	90	nw.	.....	.....	1	.....	0	.....	.....	0	0	light	nw.	clear.
S. S. San Blas, San Blas, Mexico†	30.05	763.3	69	20.6	90	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Alpheus Marshal, N. 16° 12′, E. 150° 14′*†	29.95	760.7	75	23.9	81	ne.	.....	.....	6	.....	8	.....	ne.	½ h'r	½ h'r	h'vy	var.	threatening.
S. Carondelet, S. 13° 47′, E. 125° 47′*†	29.88	758.9	.....	.....	.....	nw.	.....	.....	3	.....	1	.....	nw.	1 h'r	1 h'r	sm'h	nw.	clear.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 13° 22′, W. 91° 77′	30.00	762.0	73	22.8	95	ese.	.....	.....	2	.....	2?	.....	ese.	0	0	sm'h	se.	fair.?
U. S. S. Lackawanna, S. 14° 00′, W. 79° 58′	29.99	761.7	75	23.9	77	sse.	.....	.....	1	.....	8	.....	se.	.....	.....	sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	70	21.1	95	ese.	.....	.....	2	.....	10	.....	sse.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru *	30.06	763.5	71	21.7	90	se.	.....	.....	1	.....	8	.....	s.	.....	.....	sm'h	.....	cloudy.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.70	754.4	59	15.0	88	sw.	.....	.....	3	.....	4	.....	.....	.....	.....	sm'h	.....	squally.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.92	760.0	65	18.3	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.45	748.0	60	15.6	94	nnw.	.....	.....	1	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	28.55	725.2	52	11.1	73	w.	.....	.....	2–4	.....	6	w.	.....	.....	.....	.....	.....	squally.
S. S. Australia, Sydney, N. S. W.	29.82	757.4	69	20.6	.....	s.	.....	.....	3	.....	3	.....	nw.	0	0	.....	.....	clear.
S. S. George S. Homer, S. 45° 40′, W. 124° 17′*†	29.60	751.8	.....	.....	.....	e	.....	.....	5	.....	1	.....	se.	12 h'r	12 h'r	long	ese.	drizzling.
S. Ismir, S. 19° 19′, W. 76° 48′ *	30.31	769.9	.....	.....	.....	s.	.....	.....	1	.....	3	.....	ssw.	0	0	long	ssw	clear.
S. St. Francis, S. 23° 28′, W. 91° 10′*†	30.20	767.1	73	22.8	76	se.	.....	.....	3	.....	2	.....	se.	0	0	mod.	se.	clear.
S. Grecian, S. 42° —′, W. 128° 15′ †	29.52	749.8	60	15.6	76	ne.	.....	.....	5	.....	7	.....	ne.	0	0	mod.	ne.	fair.
S. Henry Falling, S. 44° 43′, W. 129° 46′ *†	29.54	750.3	55	12.8	7	ene.	.....	.....	4	.....	7	.....	ne.	0	0	long	ne.	fair.
H. M. S. Espiegle, S. 45° 49′, E. 170° 39′	29.78	759.4	53	11.7	80	ssw.	.....	.....	3	.....	7	.....	.....	.....	.....	.....	.....	showery.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Majunga, Madagascar	29.73	755.1	79	26.1	95	nnw.	15	6.7	.....	.....	10	.....	nnw.	1.03	26.2	sm'h	.....	cloudy.
U. S. S. Pensacola, Tamatave, Madagascar*	29.67	753.6	83	28.3	71	sse.	.....	.....	3	.....	8	.....	sse.	0.53	13.5	gr'nd	e.	fair.
H. M. S. Coquette, N. 15° 36′, E. 39° 21′	29.95	760.7	84	28.9	79	ne.	.....	.....	1	.....	2	ne.	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.91	759.7	76	24.4	68	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Orontes, S. 2° 14′, E. 45° 00′	29.90	759.4	79	26.1	100	ne.	.....	.....	3	.....	1	.....	.....	.....	.....	1	ne.	misty.
H. M. S. Tourmaline, Tamatave, Madagascar	29.77	756.1	82	27.8	83	s.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Galatia, Diamond Harbor, India†	29.96	761.0	72	22.2	95	wsw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Port Phillip, S. 12° 15′, E. 85° 05′*	29.86	758.4	86	30.0	.....	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	e.	squally.
S. S. Radnorshire, N. 9° 55′, E. 66° 20′*†	29.98	761.5	.....	.....	.....	ne.	.....	.....	4	.....	1	.....	nne.	0	0	light	nne.	clear.
S. S. Lepanto, N. 15° 38′, E. 53° 30′	29.94	760.5	75	23.9	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.

International Chart I. January 22, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 23, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.48	774.1	60.1	15.6	85	w.			1		0			0	0	clear	Roziere.
Algiers			30.54	775.6	55.0	12.8	68	wsw.			2		5			0.043	1.1	cloudy	Aubert.
La Calle			30.49	774.4	60.4	15.8	64	n.			2		2			0	0	fair	Fonfrède.
Tunis			30.50	774.8	56.5	13.6	54	nw.			3		3			0	0	pretty fair	Delord.
Tebessa					45.0	7.2	80	n.			1		0			0	0	clear	Hans.
Geriville					42.8	6.0	56	nw.			1		0			0	0	clear	Forfert.
Laghouat			30.50	774.6	52.5	11.4	78	calm			0		0			0	0	clear	Abraham.
Biskra			30.49	774.4	55.4	13.0	47	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.94	760.5	58.9	14.9	77	wsw.	14	6.3			10 k;n					showery	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.33	745.0	29.52	749.8	58	14.4	83	w.			2		3		w.	0.03	0.8	clear	Com. I. Short, R.N.
Melbourne, Victoria	29.64	752.8	29.73	755.1	60.5	15.8	86	w.	5	3.6			10			0.14	3.6	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.47	748.6	30.02	762.6	52.2	11.2	34	sw.			6		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.91	734.3	29.68	753.9	44.6	7.0	71	w.	26.6	11.9			10			0.031	0.8		Dr. Wierzbiski
Eperies	28 91	734 4	29.83	757.6	33.4	0.8	85	se.			2		10			0	0		Julius Mikolik.
Gratz	28.69	728.7	29.97	761.3	41.0	5.0	65	w.			2		5			0	0		Andreas Rospini.
Hermannstadt	28.44	722.3	29.92	760.0	33.6	0.9	71	sse.			2		8			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.68	728.4	30.06	763.5	38.5	3.6	80	nw.			1		10			0	0	cloudy	The Staff.
Lemberg	28.57	725.7	29.58	751.3	37.4	3.0	81	w.			6		10			0.205	5.2		Dr. T. Stanecki.
Pola	30.10	764.5	30.21	767.4	46.4	8.0	92	se.			1		fg.			0	0		I. R. Hydrographic Office.
Szathmar	29.35	745 5	29.83	757.7	36.7	2.6	57	s.			3		8			0.094	2.4		Joseph Midlinszky, S. J
Szegedin	29.65	753.1	29.94	760.4	39.9	4.4	76	sw.			2		8			0	0		Karl Stancel.
Trieste	30.16	766.0	30.26	768.5	44.2	6.8	76	calm			0		10			0	0		Royal Academy.
Vienna	29.20	741.7	29.93	760.1	46.8	8.2	65	w.			5		8			0.071	1.8		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.19	715.9	29.60	751.9	36.9	2.7	97	sw.			3–4		8			0.126	3.2	rain & fog	
Brussels	29.54	750.3	29.74	755.4	47.7	8.7	97	sw			7		10		sw.	0.130	3.3	light fog	
Furnes	29.66	753.4	29.68	753.9	50.7	10.4	96	w			2–3		10			0.059	1.5		
Maeseyck	29.63	752.7	29.76	755.9	47.5	8.6	88	sw.			2		10			0.094	2.4		
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			29.11	739.4	52.0	11.1	91	wsw.	36	16.1			10					raining	John Hartnup.
Bolton, Sharples	28.58	725.9	29.10	739.1	49.9	9.9	94	ssw.	24	10.7			10					raining	Thomas Mackereth.
Bradford, Yorkshire	28.70	729.0	29.10	739.1	49.7	9.8	68	s.			4		10			1.17	29.7	raining	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.00	762.0	30.03	762.7	81	27.2	63	ne.			2		6					gloomy	Corp'l W. I. Cull, A.H.C.
Cardington	29.34	745.2	29.46	748.3	52.0	11.1	86	w			9.0		7					d. clouds	John McLaren.
Chatham, School M. E.	29.39	746.5	29.56	750.8	51.1	10.6	94	sw.			5		10					raining	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.47	748.5	29.70	754.4	52.0	11.1	96	sw.			7		10					raining	The Staff.
Fort Napier, Natal	27.51	698.7	29.82	757.4	88.0	31.1	41	ne.			1		3					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.61	752.1	29.84	757.9	88	31.1	59	sw.			1		1					d. clouds	J. W. Smith.
Galway, Queen's College	29.14	740.1	29.18	741.2	50	10.0	65	wsw.			9		9			0.78	19.8	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.35	770.9	30.40	772 1	61.8	16.6	83	nw.			3		5					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.35	745 5	29.52	749.8	52.3	11.3	96	sw.			6		10					raining	The Staff.
Guernsey	29.50	749 3	29.80	756.9	51.3	10.7	98	w.			6		10					raining	A. Collenette, F.R.M.S.
Kew, Observatory	29.49	749.0	29.53	750.0	52.2	11.2	91	sw.	36	16.1			10					raining	The Staff.
Leicester, Museum	29.03	737.3	29.28	743.7	53.0	11.7	91	sw.			5		10					overcast	J. C. Smith.
Malta, Mediterranean	30.24	768 1	30.32	770.1	52.8	11.6	97	nw.			3		3			0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.19	766.8	30.23	767.8	68.0	20.0	69	ne.			2		5					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.22	742.2	29.45	748.0	53.7	12.1	90	sw.			7		10					showery	The Staff.
Plymouth	29.61	752 1	29.68	753.9	52.0	11.1	97	sw.			7		10					drizzling	John Merrifield.
Sandwick Manse, Orkneys	28.82	732.0	28.92	734.6	38.2	3.4	90						10					raining	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.08	764.0	30.15	765.8	42.6	5.9	77	sw.			3		1					d. clouds	W. H. Lyne.
Sheffield	28.87	733 3	29.14	740.1	53.1	11.7	85	sw.			6		10			0.78	19.8	raining	W. F. Cooper.
Silloth Rectory	28.85	732.8	28 88	733.5	48.6	9.2	99	sw.			6		10			0.570	14.5	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.06	738.1	49.9	9.9	94	sw.	30	13.4			10					raining	Rev. S. J. Perry.
Strathfield Turgiss					52.3	11.3	94	sw.			6.7		10					raining	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.49	749.0	29.51	749.5	48.2	9.0	64	w.	52	23.2			6					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.99	761.7	30.39	771.9	55.8	13.2	73	w.	7.5	3.4		0	6 k		w.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.10	764.5	30.14	765.5	19.0	— 7.2		sw.	7.5	3.4			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.03	762.7	30.08	764.0	32	0.0	94	sw.	8	3.6			10 n		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.00	762.0	30.07	763.8	20	— 6.7	84	sw.	1	0.4			10 s		sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.74	755.4	29.94	760.5	24.0	— 4.4	99	w.			1		10 n			0.100	2.5	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.00	762 0	30.05	763.3	15.0	— 9.4		w.			1		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.13	765.3	30.16	766.1	2	—16.7	91	ne.	15	6.7			10 ks		ne.	0.20	5.1	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.85	758.2	30.85	783.6	—34	—36.7	100	n.	12	5.4		0	0			0.04	1.0	clear	James Stewart.
Fredericton, N. B	30.02	762.5	30.09	764.3	22.0	— 5.6	72	calm	0	0			10 s			0	0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B	30.04	763.0	30.10	764.5	34	1.1	96	w.	3	1.3		0	8 ks		w.	0.01	0.3	cloudy	J. Chipman Seeley
Granton, Ontario	28.71	729.2	29.86	758.4	25.2	— 3.8	97	calm	0	0			10 n			inap.	inap.	overcast	Jas. Grant.
Halifax, N. S*	30.06	763.5	30.19	766.8	35	1.7		sw.	9	4.0		10 k	0	sw		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.47	748.5	29.90	759.4	19.7	— 6.8	84	ne.			1	10 cs	0			0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.59	751.6	29.95	760.7	25	— 3.9	88	sw.	3	1.3			10 n		w.	0.03	0.8	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.14	765.5	30.19	766.8	34.5	1.4	95	sw.	4	1.8		6 k	0		sw.	0	0	d. clouds	C. H. Rigby.
London, Ontario	28.92	734.6	29.86	758.4	28.3	— 2.1	96	calm			0		10 n			0.60	15.2	snowy	E. B. Reed.
Medicine Hat, N. W. T	28.06	712.7	30.57	776.5	10	—12.2	96	e.	3	1.3			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	28.59	726.2	30.94	785.9	—29	—33.9		nw.	5	2.2		0	0			0.15	3.8	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.82	757.4	30.04	763.0	12	—11.1	87	ne.	6	2.7			10 n			0.06	1.5	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	29.77	756.1	30.01	762.2	10.8	—11.8	84	nw.					10 s			0.10	2.5	snowy	A. McCill, M. A.
Parry Sound, Ontario*	29.29	744.0	30.06	763.5	1	—17.2	69	n.	18	8.0			10 n		n.	0.05	1.3	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.12	739.6	29.91	759.7	16.6	— 8.6	85	e.			2		10 kn					snowy	Wm. O'Connor, M.A.
Port Arthur	29.85	758.2	30.69	779 5	—22	—30.0	100	w.	3	1.3		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.15	740.4	29.87	758.7	30	— 1.1	89	sw.	8	3.6			10 n		sw.	0	0	threatening	H. Morgan.
Port Stanley, Ontario	29.20	741.7	29.87	758.7	30	— 1.1	88	sw.	5	2.2			10 n		sw.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	28.22	716.8	31 03	788.1	—36	—37.8		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.65	753.1	30.03	762.7	15	— 9.4	87	calm	0	0			10 s			0	0	cloudy	Capt. Asse, R. N.
Rockliffe, Ontario*	29.64	752.8	30.10	766.1	— 3	—19.4	79	w.	5	2.2			10 n					light snow	W. H. McIntyre.
St. Andrews, N. B	30.03	762.7	30.08	764.0	26	— 3.3	90	w.	5	2.2		5 k	2 ks	w.		0	0	cloudy	
St. John, N. B	29.95	760 7	30.10	764.5	29.0	— 1.7	89	sw.	8	3.6		4 k	4 k	nw.		inap.	inap.	fair	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			30.24	768.0	15.8	— 9.0		n.			6								The Commandant.
Saugeen, Ontario*	29.21	741.9	29.99	761.7	11	—11.7	91	ne.	21	9.4			10 s			0.40	10.2	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.50	723.9	29.86	758.4	19.8	— 6.8	97	calm	0	0			10 n			0.750	19.0	snowing	W. Mc Bride, M. A.
Sydney, C. B*	30.12	765.0	30.19	766.8	33	0.6	78	sw.	21	9.4		10 k	0	w.		0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.51	749.5	29.91	759.7	25	— 3.9	92	n.	7	3.1			10 n			0.01	0.3	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.78	731.0	29.89	759.2	27.4	— 2.6	88	se.	1	0.4			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.09	764.3	30.16	766.1	35	1.7	85	w.	13	5.8		10 k	0	w.		0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.78	756.4	29.81	757.2	70.5	21.4	92	w.					10			0.340	8.6	thund'r st'm	I. Garfelt.
Cape Town, The Castle	29.68	753.9			73.8	23.2	64	se.					10 n			0	0		Capt.R.Gardner Warton
Springbok Fontein	27.83	706.9			73	22.8	60									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.88	758.9	29.96	760.9	65.3	18.5	85	w.			1	10	0					cloudy	Samuel Redolez.
Iquique	29.83	757.7	29.86	758.4	68.9	20.5	84	sw.			2	6 c	0					foggy	Rafael Moreno.
Niebla	29.62	752.3	29.72	755.0	59.0	15.0	72	e.			2	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.90	759.4	29.98	761.6	68.5	20.3	78	sw.			1	8 cs	0	sw.				fair	Manuel Tobar.
Punta Corona	30.00	761.9	30.18	766.6				e.			3		10			0	0	cloudy	Francisco Alvarado.
Valparaiso	29.81	757.1	29.95	760.6	64.6	18.1	90	sw.				10	0					cloudy	Paez-I-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.23	767.9	30.26	768.5	43.3	6.3	89	nw.	4.9	2.2			10 n			0.079	2.0	raining	M.Marc Dechevrens,S. J.
Danish.																			
Copenhagen	29.40	746.8	29.45	748.0	39.0	3.9	75	wnw.	22	10			8						Oversergent Fischer.
Fanöe	29.45	748.0	29.47	748.5	39.2	4.0	88	w.			2		10						Overloerer Lauridsen.
Godthaab, Greenland	29.64	752.9	29.69	754.0	—14.8	—26.0	100	ene.			4		3						S. Kleinschmidt.
Stykkisholm, Iceland	28.94	735.0	28.98	736.1	21.9	— 5.6	87	e.			4		8						A. O. Thoriacius.
Thorshavn	28.89	733.9	28.92	734.5	36.5	2.5	82	se.	18	8			10					rain & snow	Overloerer Bergh.
Vestervig	29.26	743.3	29.36	745.7	39.4	4.1	88	w.			4		9						Loerer Oesterbol.
Egyptian.																			
Cairo	30.08	764.1			53.6	12		nw.	3.8	1.7			10			inap.	inap.	covered	Albert Ismalun.
French.																			
Agen, Normal School	29.89	759.1	30.58	776.6	30.6	— 0.8	96	sse.			1		10			0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.55	750.6	30.10	764.6	50.7	10.4	93	sw.			1		u		ne.	0.04	1.		M. Nicot, Director.
Arras, Normal School			29.84	758.0	51.1	10.6	88	sw.			6		10	sw.	sw.	0.24	6.	covered	M. Ungerer, Director.
Avignon, Normal School	30.30	769.7	30.38	771.7	42.8	6	79	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.60	751.8	30.17	766.4	38.8	3.8	92	s.			2		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.69	754.1	29.96	760.9	49.3	9.6	84	sw.			3		10		wsw.	0.008	0.2	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.33	745.0	30.26	768.6	41.0	5	78	ssw.			2		cn		ne.	0	0		M. Gobin, Director.
Bordeaux, Observatory	30.14	765.6	30.41	772.5	39.2	4.0	88	s.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.65	753.0	30.22	767.5	43.7	6.5	85	sw.			1				sw.	0.016	0.4		M. Sauvageot, Director.
Brest, Naval Observatory	29.80	756.9	30.04	763.0	52.9	11.6	97	sw.			4				sw.	0.059	1.5	raining	M. de Kermarrée, Dir.
Caen, Normal School	30.02	762.5	30.10	764.5	55.4	13	100	w.			3		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.72	754.8	30.05	763.2	41.4	5.2	97	sw.			6		10			0.122	3.1	covered	M. Jadot, Director.
Charleville, Normal School	29.53	750.0	30.05	763.2	41.4	5.2	91	ssw.			1		10					heavy rain	M. Noël, Director.
Clermont-Ferrand Obs'y	28.91	734.4	30.35	770.9	30.9	—0.6	94	ssw.			1		10			0	0	foggy	M. Alluard, Director.
Cluny, Normal School	29.44	747.7	30.32	770.1	42.8	6	70	sw.			2		7		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.23	742.4	30.12	765.0	38.8	3.8	97	w.			6		10 n	w.	w.	0.051	1.3	covered	Dr. Coulet, Director.
Gap, Normal School	27.77	705.4	30.37	771.4	46.4	8	40	calm			0	4 ck				0	0		M. Jarach, Director.
Grésque, du Rhone	29.18	741.2	30.33	770.3	51.3	10.7	56	wnw.			2		3		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.63	752.6	30.45	773.5	33.1	0.6	96	sse.			4		10			0	0	covered	M. Ablard, Director.
Guéret, Normal School	28.71	729.3	30.35	770.8	35.6	2	78	sw.			8		n		sw.	0.04	1.		M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.89	759.3	30.52	775.2	50.9	10.5	59	e.			1		2 k			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.01	762.2	30.11	764.8	53.6	12.0	86	sw.			6				sw.	0.079	2.0	misty	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.27	743.4	30.39	771.8	30.4	— 0.9	96	sse.			1					0	0		M. André, Director.
Mans, Normal School	29.82	757.3	30.13	765.3	47.3	8.5		sw.			6		10			0.012	0.3	light rain	M. Richard, Director.
Marseille, Observatory	30.08	764.0	30.35	771.0	49.5	9.7	58	wsw.			1		5		nw.	0	0		M. Stephan, Director.
Montlouis	25.09	637.2	29.93	760.2	47.1	8.4	30	sw.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.22	767.6	30.33	770.4	47.5	8.6	63	se.			2		5		ssw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.34	745.2	30.16	766.0	39.2	4.0	77	sw.			3		n			0.024	0.6		M. Hasse, Director.
Nantes, Observatory	30.05	763.3	30.21	767.4	52.5	11.4	96	sw.			4		10		sw	0.012	0.3	light rain	M. Larocque, Director.
Perpignan, Observatory	30.29	769.3	30.40	772.2	55.0	12.8	34	s.	3.8	1.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.46	545.0			31.6	— 0.2		e.			1		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.26	743.3	30.42	772.6	31.3	— 0.4	100	s.			1					0	0	foggy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.26	641.5			24.6	— 4.1	100	wsw.			6		5			0	0		M. Alluard.
Rochefort, Naval Obs'y	30.31	769.9	30.34	770.7	46.0	7.8	89	sw.			4		10		sw.	0.12	3	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.21	767.3	30.47	773.8	50.7	10.4	100	sw.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.28	718.3	30.57	776.5	26.6	— 3.0		nw.			1					0	0	foggy	M. Seger, Director.
Rouen, Normal School	30.08	764.0	30.13	765.2	54.0	12.2	83	sw.			4		10	sw.		0.043	1.1	covered	M. Mouillot, Dir.
St. Lô, Normal School			29.80	757.0	54.0	12.2	74	w.			3		10			0.248	6.3	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.87	758.6	30.03	762.8	43.5	6.4	95	sw.			4					0.016	0.4		M. Renou, Director.
Toulouse, Observatory	29.80	756.8	30.53	775.4	34.9	1.6	74	e.			1		10	nw.		0	0	covered	M. Bailland, Director.
Tours	30.04	763.0	30.22	767.5	43.5	6.4	88	s.			2		10		ssw.	0	0	covered	M. de Tastes.
Versailles, Observatory	29.50	749.4	29.99	761.8	45.3	7.4	94	sw.			6					0.047	1.2		Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.31	769.9	30.46	773.7	53.1	11.7	65	w.	5.8	2.6			6 k		wnw.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.54	725.0	30.05	763.2	37.4	3.0	90	sw.			4		10	sw.		0.091	2.3		Prof. Jnedt.
Bamberg	29.11	739.3	29.95	760.7	38.5	3.6	76	sw.			4		10 n.		sw.	0.217	5.5		Prof. Dr. Hoh.
Berlin	29.59	751.5	29.73	755.2	42.1	5.6	91	w.			3		7			0.213	5.4		Meteorological Institute
Breslau	29.22	742.1	29.74	755.4	44.4	6.9	80	wnw.			7		10			0.051	1.3		Royal University Obs'y
Carlsruhe	29.58	751.4	30.06	763.4	39.9	4.4	90	sw.			4		10	sw.		0.823	20.9	raining	Albert Senz.
Cassel	29.04	737.6	29.75	755.7	41.7	5.4	87	s.			8		10	s.		0.142	3.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.58	751.3	29.95	760.8	38.3	3.5	92	ssw.			3		10			0.354	9.0		Physical Society.
Friedrichshafen	28.71	729.3	30.17	766.4	41.5	5.3	66	wnw.			3		10	w.		0.201	5.1	raining	Wilhelm, Chief Tel.
Hamburg	29.52	749.8	29.61	752.1	41.9	5.5	88	sw.			3		10			0.591	15.0		E. Preller.
Kiel	29.53	750.0	29.54	750.4	42.4	5.8	83	wsw.			2		10			0.996	25.3		Prof. Dr.G. Karsten.
Leipsic, Astrom'l Obs'y	29.39	746.4	29.82	757.4	43.9	6.6	81	wsw.			4		10	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.54	750.2	29.72	755.0	45.7	7.6	76	wnw.			3		8			0.039	1.0		Weather Observatory.
Memel	29.15	740.4	29.20	741.6	24.8	— 4.0	70	nw.			7		9 k						Issermann.
Munich	28.22	716.7	30.08	764.1	46.8	8.2	39	w.			6		10	nw.		0	0		Central Station.
Neufahrwasser	29.37	745.9	29.38	746.3	40.3	4.6	70	nw.			7		5			0.256	6.5		A. Lothes.
Neustadt, Palatinate	29.46	748.3	29.99	761.7	41.4	5.2	78	sw.			1		10			0.303	7.7		Dicknether.
Stuttgart	29.04	737.7	29.95	760.7	45.0	7.2	79	w.			7		10			0.091	2.3		Prof. Dr. Schoder.
Wustrow	29.57	751.1	29.60	751.7	39.4	4.1	87	w.			5		5 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.91	759.8	30.31	769.8	50.0	10.0		ne.			0.5	1	0			0	0	hazy	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.91	759.7	29.96	761.0	73.7	23.2	77	wsw.	21.0	9.4			1			0	0	misty	
Deesa	29.47	748.6	29.95	760.8	78.1	25.6	39	w.	9.0	4.0			0			0	0	blue sky	
Bombay	29.92	760.0	29.96	761.0	76.3	24.6	71	nw.	14.0	6.3			0			0	0	blue sky	
Poona, Yarrowda	28.09	713.4	29.93	760.1	84.8	29.3	33	wsw.	6.0	2.7			0			0	0	blue sky	
Belgaum	27.41	696.2	29.93	760.3	79.9	26.6	21	ene.	3.0	1.3			0			0	0	blue sky	
Lahore	29.25	742.9	30.02	762.5	63.6	17.6	63	e.	4.0	1.8			8			0	0	d. clouds	
Roorkee	29.07	738.5	30.00	762.0	66.8	19.3	50	calm	0	0			0			0	0	blue sky	
Agra	29.40	746.6	29.97	761.3	73.2	22.9	47	e.	4.0	1.8			6		e.	0	0	d. clouds	
Nagpur	28.92	734.5	29.97	761.2	78.5	25.8	36	s.	4.0	1.8			0			0		blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Amount and kind. Lower. 0–10	Direction. Upper. From.	Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.62	726.9	30.00	762.0	71.9	22.2	55	calm	1.7	0.8			3			0	0	d. clouds	
Lucknow	29.63	752.6	30.02	762.4	70.2	21.2	46	calm	0	0.3			0			0	0	blue sky	
Allahabad	29.67	753.6	29.99	761.8	71.8	22.1	50	ne.	2.0	0.9			0			0	0	blue sky	
Patna	29.84	758.0	30.04	762.9	68.5	20.3	53	ne.	2.4	1.1			0			0	0	blue sky	
Hazaribagh	27.94	709.7	30.00	762.1	67.1	19.5	40	nnw.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.91	759.8	30.00	761.9	74.2	23.4	58	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.98	761.4	30.00	762.0	68.7	20.4	65	wsw.	0.5	0.2			0			0	0	blue sky	
Dhubri	29.93	760.2	30.05	763.4	65.2	18.4	80	calm	0.7	0.3			0			0	0	blue sky	
Chittagong	29.94	760.3	30.03	762.7	68.6	20.3	64	calm	2.1	0.9			0			0	0	misty	
Sibsagar	29.73	755.1	30.08	764.2	57.9	14.4	88	calm	0	0			0			0	0	blue sky	
Jeypore	28.51	724.2	29.98	761.6	71.7	22.1	45	ese.	1.0	0.4			9	ese.		0	0	d. clouds	
Zanzibar	29.89	759.1	29.91	759.7	81.7	27.6	71	n.	10.3	4.6			6		ne.	0	0	d. clouds	
Bellary	28.46	722.9			81.0	27.2	27	e.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.69	754.1			81.9	27.7	44	ene.	0.2	0.04		2	2			0	0	d. clouds	
ITALIAN.																			
Udine	29.80	757.0	30.23	767.8	37.8	3.2	90	calm	0	0			10			0	0		Prof. Giovanni Clodig.
Milan	29.70	754.4	30.24	768.1	47.7	8.7	67	wnw.	8.7	3.9			7	n.		0	0		Prof. G. V. Schiapparelli
Padua	30.12	765.0	30.23	767.9	33.4	0.8	98	calm	0	0			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.28	743.7	30.22	767.6	41.2	5.1	70	nw.	0.7	0.3			5	ne.		0	0		Prof. F. F. Denza.
Genoa	30.11	764.8	30.31	769.8	51.8	11.0	71	se.	8.7	3.9			10	se		0	0		Prof. G. M. Garibaldi.
Pesaro	30.18	766.5	30.23	767.8	51.4	10.8	61	wsw.	15.0	6.7			10	nw.		0	0		Prof. Luigi Guidi.
Florence	30.07	763.8	30.34	770.5	48.6	9.2	72	s.			2		10			0	0		Prof. Costantino Pittel.
Leghorn	30.21	767.2	30.29	769.4	52.2	11.2	68	w.	0.7	0.3			10	sw.		0	0		Prof. P. Monte.
Rome	30.18	766.5	30.35	771.0	48.9	9.4	56	n.	0	0			0			0.004	0.1		Prof. P. Tacchini.
Lecce	30.02	762.5	30.28	769.1	56.7	13.7	72	nw.	6.3	2.8			0			0	0		Prof. C. de Giorgi.
Cosenza	29.38	746.2	30.33	770.3	47.5	8.6	73	sse.	3.1	1.4			1	sw.		0	0		Prof. D. Conti.
Cagliari	30.19	766.8	30.39	771.8	55.4	13.0	67	nw.			2		2			0	0		Prof. A. Pacinotti.
Palermo	30.15	765.8	30.41	772.3	54.3	12.4	61	nne.	3.8	1.7			7	nne.		0	0		Prof. G. Cacciatore.
Syracuse	30.31	769.8	30.35	771.0	53.4	11.9	60	nne.	1.8	0.8			0			0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.84	758.0	30.38	771.7	52.3	11.3	71	sw.	3.1	1.4			2	w.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.89	759.1	29.92	760.0	35.8	2.1	95	e.			2		10 n			1.142	29.0	raining	H. Hattori.
Awomori	29.85	758.2	29.89	759.2	36.1	2.3	90	w.	8.1	3.6			10 n			0.058	1.5	light rain	K. Ogawa.
Hakodate	29.85	758.2	29.86	758.5	37.6	3.1	68	nw.	6.0	2.7		0	3 s			0.285	7.2	clear	Y. Souma.
Hamamatsu	29.92	759.9	30.02	762.4	42.9	6.1	97	calm			0		10 n			0.744	18.9	raining	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.00	762.0	30.02	762.4	42.1	5.6	97	n.	2.2	1.0			10 n		W.	0.484	12.3	raining	Y. Okamoto.
Kagoshima	30.09	764.2	30.10	764.5	61.0	16.1	85	sw.			2		10 n			0.158	4.0	raining	
Kanazawa	29.80	756.9	29.90	759.5	47.1	8.4	85	s.	5.6	2.5			10ks;s			0.632	16.0	overcast	S. Endo.
Kioto	29.81	757.2	29.98	761.6	37.6	3.1	98	calm	0	0			10 n			0.747	19.0	light rain	M. Tojima.
Kochi	30.00	762.1	30.03	762.6	48.1	8.9	93	wnw.	4.9	2.1			10 n			0.285	7.2	raining	K. Kusunose.
Miasaka	30.02	762.6	30.05	763.3	62.0	16.7	77	wsw.			2	0	1 s		W.	0.020	0.5	fair	K. Masusaki.
Miyako	29.77	756.1	29.87	758.7	43.0	6.1	58	wsw.	1.3	0.5			10 s			0	0	cloudy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.87	758.7	30.07	763.8	57.7	14.3	89	w	8.4	3.8			10 s			0.310	7.8		
Nemuro	29.74	755.4	29.79	756.7	28.0	— 2.2	70	calm	0	0		1 k	0			0	0	clear	A. Shibuya.
Niigata	29.90	759.4	29.93	760.2	35.6	2.0	94	se.	5.0	2.2			10 n			0.480	12.2	light rain	Satoo & Tomikawa.
Nobiru	29.91	759.6	29.92	760.0	37.3	2.9	92	calm	1.6	0.7			10 n			0.010	0.3	raining	Yoshino & Midzushina.
Numadzu	29.95	760.7	29.98	761.6	48.7	9.3	94	wsw.			2		10 n			1.335	33.9	raining	T. Ohgi.
Osaka	29.96	761.1	29.98	761.5	40.9	4.9	94	ene.	11.6	5.2			10 n			0.768	19.5	light rain	H. Omura.
Sakai	29.99	761.7	30.00	761.9	49.9	9.9	87	w.			2		10 n		W.	0.846	21.5	raining	Yamawchi & Sakamoto.
Sapporo	29.77	756.1	29.84	757.8	32.7	0.4	94	sw.	2.5	1.1			10 ns					snowing	S. Kimura.
Shimonoseki	29.88	759.1	30.03	762.8	53.9	12.2	94	ssw.			2		10 n			0.968	24.6	raining	S. Sakano.
Tokei Obs'y, Yeddo	29.85	758.3	29.93	760.3	40.0	7.8	71	wsw.	8.2	3.7			9s;cs		W.	0	0	cloudy	The Staff.
Wakayama	29.90	759.6	29.95	760.8	58.8	14.9	81	s.	11.5	5.1			10ck;s		s.	0.510	13.0	cloudy	K. Nakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.49	749.0	29.67	753.6	80.9	27.2	72	se.	17.5	7.8		6ck;cs	2 kn	s.	se.	0.41	10.4	cloudy	The Staff.
MEXICAN.																			
Leon	24.31	717.5	30.17	766.3	43.9	6.6	81	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.78	756.5	30.05	763.2	66.0	18.9	68	n.	1.6	0.8		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.65	753.0	29.65	753.0	49.3	9.6		sw.			5					0.039	1.0		
Groningen	29.61	752.0	29.66	753.4	42.8	6.0		ssw.			1					0.567	14.4		
Helder	29.51	749.6	29.51	749.6	43.2	6.2		sse.			2					0.461	11.7		
Hellevoetsluis	29.66	753.4	29.66	753.4	50.2	10.1	93	sw.			4					0.283	7.2		
Utrecht	29.57	751.1	29.63	752.5	48.7	9.3	95	ssw.			4		7			1.380	35.2	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.3			79.0	26.1	88	n.	0	0			6			0	0		Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	29.20	741.6	29.26	743.2	35.2	1.8	71	w.	4	2			10			0.016	0.4	snowing	
Brono	28.83	732.2	28.87	733.2	28.4	— 2.0	80	nnw.			6		6			0.012	0.3	snowing	
Christiania	28.97	735.9	29.12	739.6	36.9	2.7	54	wnw.	25	11			0			0	0		
Gjæsvær	28.32	719.4	28.35	720.0	22.6	— 5.2		sse.			2		4			0.020	0.5		
Lodingen	28.53	724.6	28.58	725.8	26.4	— 3.1	87	nnw.			6		10			0.138	3.5	snowing	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.49	774.5	30.58	776.7	62.4	16.9	53	e.	7.4	3.3			1	n.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.23	767.8	30.58	776.7	53.4	11.9	72	e.	3.8	1.7			0			0	0		The Staff.
Ponta Delgada, Azores	30.68	779.3	30.75	781.1	63.7	17.6	78	calm	0	0			3			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.10	764.5	30.13	765.3	70.2	21.2	72	ene.			6		4			0	0		
San Salvador, Congo	28.06	712.6	29.88	758.9	80.8	27.1	66	sw.			2		9			0.291	7.4		
Serra da Estrella	25.67	652.0	30.48	774.1	47.8	8.8	20	nw.	0.7	0.3			0			0	0		
RUSSIAN.																			
Akmolinski	28.84	732.4	30.03	762.7	3.0	—16.1	95	wsw.	11	5			10 n			0.047	1.2		Major K. Lasarew.
Archangel	28.56	725.4	28.58	725.9	20.1	— 6.6	92	se.	9	4			10			0.059	1.5	light snow	Capt. Seliwerstow
Ashurada	29.85	758.3	29.76	755.9	46.0	7.8	82	wsw.	34	15			10 kn			0.535	13.6		
Astrakhan	30.02	762.6	29.95	760.6	22.1	— 5.5	85	w.	7	3			10			0	0	h'vy clouds	Capt. Wisganow.
Baku	29.85	758.2	29.80	757.0	33.4	0.8	85	nnw.	45	20			10 n			0.185	4.7		
Barnaul	29.55	750.6	30.10	764.6	4.5	—15.3	83	sw.	4	2			9			0	0		Meteorological Office.
Bielosersk	28.37	720.5	28.84	732.5	29.1	— 1.0	100	sse.	7	3			10 s			0.177	4.5		
Dorpat	28.53	724.7	28.77	730.8	34.3	1.3	91	wnw.	7	3			10 n			0.016	0.4		Observatory.
Ekaterinburg	28.53	724.7	29.56	750.8	10.9	—11.7	75	sw.	22	10			9			blank	blank		Meteorological Obs'y
Elissawetgrad	29.17	740.9	29.63	752.7	34.2	1.2	77	sw.	13	6			10 s;n			0	0		
Kasan	29.19	741.3	29.47	748.5	20.7	— 6.3	93	s.	7	3			10			0	0		Observatory.
Kem	28.50	723.9	28.55	725.2	25.2	— 3.8	91	sw.	13	6			10			0.130	3.3	h'vy. clouds	
Kertch	29.92	759.9	29.94	760.5	38.3	3.5	70	calm	0	0		7 ck	0			blank	blank		Lagorio & Sastyre.
Kieff	28.68	728.4	29.32	744.7	37.4	3.0	61	sw.	36	16			10ks;n			blank	blank		Observatory.
Koslov	28.85	732.8	29.37	745.9	30.2	— 1.0	89	ssw.	20	9			10 s			0.402	10.2	snowing	
Lgov	28.72	729.5	29.32	744.6	32.4	0.2	87	sw.	40	18			10			inap.	inap.	light snow	R. I. Saaweljew, Engin'r.
Libau	29.05	737.9	29.08	738.5	38.3	3.5	70	wnw.	25	11			6			0.165	4.2		F. Quass.
Lugan	29.51	749.6	29.72	755.0	28.8	— 1.8	88	ssw.	22	10			10			0.008	0.2		Meteorological Obs'y
Moscow	28.59	726.2	29.08	738.6	30.7	— 0.7	87	sw.	4	2			10 s			0.079	2.0	snowing	Meteorological Obs'y
Nertschinsk	28.04	712.2	30.72	780.2	—17.9	—27.7	80	calm	0	0			0			inap.	inap.		

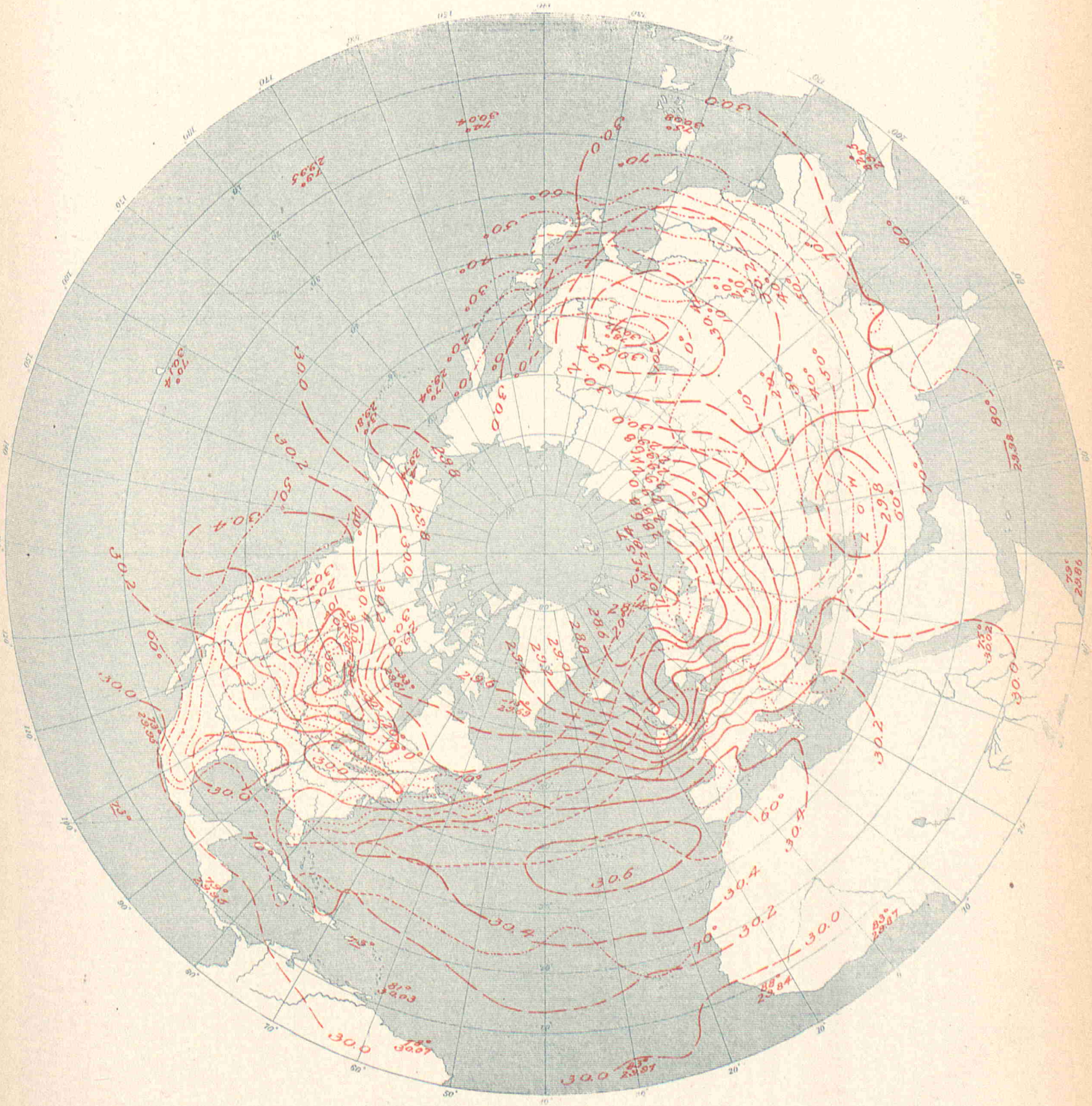
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaiev	29.72	755.0	29.80	756.8	35.8	2.1	82	s.	22	10			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	29.96	761.0	30.05	763.2	—15.3	—26.3	80	calm	0	0		0	0						Iwanow.
Pekin, China	30.26	768.7	30.41	772.3	27.7	— 2.4	69	se.	2.2	1.0		0	0			0	0		Physical Observatory
Petro-Alexandrovsk	29.33	744.9	29.09	754.2	32.4	0.2	89	ne.	4	2			10 n					raining	
Petrozavodsk	28.45	722.7	28.65	727.6	33.1	0.6	90	ssw.	7	3		0	8 k			0.043	1.1		Dr. Bergmann.
Pinsk	28.69	728.7	29.19	741.4	37.0	2.8	91	wsw.	34	15			10 n			0.087	2.2		
Poti	29.97	761.3	30.00	762.1	38.5	3.6	95	s.	13	6			10 n			0.618	15.7	raining	
St. Petersburg	28.68	728.4	28.70	729.0	34.5	1.4	85	wsw.	9	4		c;cs	9 kn			0.031	0.8		Central Physical Obs'y.
Samarkand	27.17	690.2	29.65	753.1	46.0	7.8	70	se.	7.8	3.5			10 k						
Semipalatinsk	29.49	749.1	30.22	767.7	3.7	—15.7	76	calm	0	0			3			0	0		Major Lasarew
Sevastopol	29.73	755.2	29.95	760.8	41.2	5.1	71	w.	20	9		0	7 n			0	0		
Starol Bykhov	28.41	721.7	28.98	736.1	33.6	0.9	90	ssw	31	14			10			0.039	1.0	snowing	
Tashkend, Laboratory	28.13	714.4	29.82	757.5	42.8	6.0	96	calm	0	0			10 n					h'vy clouds	Terch, A. M
Tiflis	28.41	721.7	29.88	758.9	36.7	2.6	46	nw.	45	20		0	7 k			0.004	0.1		Physical Observatory.
Vernoe	27.39	695.6	30.02	762.4	25.9	— 3.4	89	ne.	2	1			10 n					foggy	
Viatka	28.72	729.5	29.38	746.3	17.2	— 8.2	100	calm	0	0			10			0	0		
Vladivostock	30.13	765.4	30.20	767.1	14.9	— 9.5	55	n.	22	10		0	0			0	0		
Warsaw	29.04	737.5	29.46	748.3	41.4	5.2	65	nw.	29	13		0	7 kn			0.264	6.7	heavy cloud	Astronomical Obs'y.
Yeniseisk	29.72	754.9	30.04	762.9	5.9	—14.5	83	s.	9	4			10			0.016	0.4	snowing	M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.43	722.1	28.96	735.6	30.9	— 0.6	94	s.	12	5.4			10 n		s.	0.18	4.6	snowing	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.28	769.1	30.39	772.0	54.9	12.7	66	sw.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.43	773.0	30.49	774.5	51.1	10.6	72	se.	1.6	0.7		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.51	698.8	30.60	777.3	44.1	6.7	61	sw.	2.5	1.1		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.24	717.3	30.50	776.2	47.5	8.6	50	ne.	3.1	1.4		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.32	770.2	30.48	774.1	57.6	14.2	73	wsw.	1.3	0.6		0	1			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.58	751.3	30.50	774.8	46.9	8.3	93	se.	1.3	0.6			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.09	764.2	30.16	766.0	62.7	17.1	73	ese.	10.7	4.8		0	7 k;ks		s.	inap.	inap.	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	30.02	762.4	30.08	763.9	74.8	23.8	77	ne.	2.2	1.0		0	2 ks			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.44	773.1	30.54	775.7	54.5	12.5	59	nnw.	4.5	2.0		0	2		n.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	29.84?	758.0?	29.93?	760.3?	72.7	22.6	88	s.	3.6	1.6		4 cs	2 k	s.	s.	0.327	8.3		Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	28.40	721.4	28.44	722.4	7.2	—13.8	100	calm			0					0	0	foggy	
Umea	28.41	721.6	28.46	722.9	27.3	— 2.6	92	n.			4		4			0	0		
Hernosand	28.51	724.2	28.56	725.5	33.8	1.0	62	w.			8		0			0.016	0.4		
Stockholm	28.79	731.2	28.97	735.7	33.8	1.0	51	w.			7		0			0	0		
Wisby	29.00	736.6	29.06	738.1	38.1	3.4	63	wnw.			7		3			0	0		
Sub-series.																			
Upsala	28.80	731.6	28.89	733.8	33.4	0.8	45	w.	11.4	5.1			1	nw.		0	0		H. H. Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.14	765.6	41.9	5.5	74	sw.	9	4.0			0			0	0		The Observatory.
Valona			30.29	769.4	58.3	14.6		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.01	762.2	49.5	9.7	58	n.			2		7 n		nw.	0.69	17.5		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.01	762.2	30.10	764.5	27	— 2.8	54	s.	8	3.6		7 cs	2 s	w.	w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.39	746.5	30.10	764.5	6.8	—14.0	76	n.	14	6.3			10 n			0.32	8.1	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.98	634.5	30.10	764.5	26.0	— 3.3	76	sw.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.55	699.8	30.59	777.0	6.0	—14.4	76	e.	12	5.4			10 s		e.	0.02	0.5	cloudy	F. Newman.
Atlanta, Georgia	29.60	730.6	30.23	767.8	35.0	1.7	49	s.	8	3.6		5 cs	5 k	sw.	sw.	0	0	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.16	766.1	30.17	766.3	35.0	1.7	79	sw.	12	5.4		8 c	0			0	0	cloudy	B. A. Blundon.
Augusta, Georgia	30.12	765.0	30.32	770.1	32	0.0	72	s.	1	0.4		10 c	sk.			0	0	cloudy	W. J. Evans.
Baltimore, Maryland	30.12	765.0	30.17	766.3	33	0.6	71	s.	2	0.9		0	sk.			0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.15	765.8	30.17	766.3	31.1	— 0.5	82	sw.	13	5.8		5 c	0	sw.		0	0	fair	F. L. Johnson.
Bennett, Fort, Dakota	29.04	737.6	30.78	781.8	—13.2	—25.1	58	ne.	0	2.7		0	0			0.05	1.3	clear	A. Pritchard.
Benton, Fort, Montana	27.57	700.3	30.55	776.0	19.0	— 7.2	70	calm	0	0			10 s			0.02	0.5	cloudy	Thomas Morgan.
Bismarck, Dakota	28.78	731.0	30.78	781.8	—19.0	—28.3	100	nw.	4	1.8		0	0			0.12	3.0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.12	765.0	30.15	765.8	36.5	2.5	75	sw.	12	5.4		2 cs	2 s		sw.	0	0	fair	J. T. Elker.
Boise City, Idaho	27.64	702.0	30.57	776.5	11	—11.7	83	w.	3	1.3		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.95	760.7	30.12	765.0	29.4	— 1.4	67	sw.	8	3.6		3 c	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.74	755.4	29.80	756.9	58.0	14.4	86	s.	20	8.9		3 cs	0			0	0	clear	John McGlone.
Buffalo, New York	29.15	740.4	29.94	760.5	30	— 1.1	81	s.	12	5.4		0	9 s		sw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.57	725.7	30.80	782.3	—21.7	—29.8	100	n.	2	0.9		0	0			0.01	0.3	clear	A. Schneider.
Cairo, Illinois	29.60	751.8	30.02	762.5	38.3	3.5	91	s.	10	4.5			10 n		s.	0.02	0.5	light rain	W. H. Ray.
Canby, Fort, Washington Ter	30.29	769.4	30.49	774.4	37.0	2.8	82	e.	4	1.8		0	hz.			0	0	clear	J. H. Young.
Cape Henry, Virginia	30.23	767.8	30.25	768.3	35.5	1.9	69	s.	16	7.2		0	7 s			0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.10	766.1	30.20	767.1	30.0	2.2	82	s.	13	5.8		7 cs	0			0	0	fair	W. E. Smith.
Cape Mendocino, California	29.58	751.3	30.28	769.1	43	6.1	93	n.	30	13.4			fg.			0	0	dense fog	A. P. Leavitt.
Cedar Keys, Florida	30.25	768.3	30.27	768.8	42.0	5.6	93	ne.	5	2.2		0	9 s		se.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.26	768.6	30.32	770.1	38.1	3.4	89	nw.	2	0.9			fg.			0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.35	745.5	30.24	768.1	32.0	0.0	73	sw.	8	3.6			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.34	745.2	30.20	767.1	32.0	0.0	88	s.	2	0.9			10 n		s.	inap.	inap.	light snow	B. L. Goulding.
Cheyenne, Wyoming	24.08	611.6	30.35	770.9	19.8	— 6.8	67	nw.	20	8.9		0	hz.			0	0	clear	E. McGovern.
Chicago, Illinois	29.13	739.9	29.88	758.9	27.5	— 2.5	77	w.	7	3.1			10 n			0.03	0.8	heavy snow	Wm. Norrington.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	33.7	0.9	73	sw.	11	4.9		5 ck	hz.	s.		0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.31	744.5	30.00	762.0	40.2	4.6	73	sw.	7	3.1		5 c	1 s	sw		0	0	fair	L. Dunne.
Cleveland, Ohio	29.12	739.0	29.90	759.4	35.0	1.7	69	s.	12	5.4			10 s		s.	0	0	cloudy	W. Line.
Columbus, Ohio	29.07	738.4	29.97	761.2	33.1	0.6	82	s.	6	2.7			10 s		sw.	0	0	cloudy	F. T. Williams.
Concho, Fort, Texas	28.04	712.2	30.00	763.5	35.2	1.8	72	n.	12	5.4		7 k	0	sw.		0	0	fair	C. E. King.
Custer, Fort, Montana	27.22	691.4	30.60	777.2	13	—10.6	100	ne.	5	2.2			10 n			0.09	2.3	light snow	W. J. Daily.
Davenport, Iowa	29.33	745.0	30.04	763.0	21	— 6.1	76	nw.	10	7.2			10 s		nw.	0.03	0.8	cloudy	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	30.18	766.6	29.0	— 1.7	70	n.	8	3.6		0	5 ks		n.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.90	734.0	30.71	780.0	21.5	— 5.8	100	n.	1	0.4			fg.			0	0	dense fog	H. S. Blandford.
Deadwood, Dakota	25.60	650.2	30.55	776.0	5.0	—15.0	83	n.	1	0.4		0	4 k		nw.	0.13	3.3	fair	G. Kingsbury.
Delaware Breakwater, Del.	30.18	766.6	30.20	767.1	31.6	— 0.2	70	s.	6	2.7		5 k	0	w.		0	0	fair	G. A. Martin.
Denver, Colorado	24.85	631.2	30.37	771.4	25.4	— 3.7	74	s.	6	2.7		0	5 s			0	0	fair	F. M. Neill.
Des Moines, Iowa	29.27	743.4	30.24	768.1	13	—10.6	61	n.	18	8.0		0	3 s		n.	0.02	0.5	clear	F. W. Conrad.
Detroit, Michigan	29.14	740.1	29.90	759.4	33.4	0.8	78	calm	0	0			10 s			0.02	0.5	cloudy	N. B. Conger.
Dodge City, Kansas	27.56	700.0	30.31	769.9	30	— 1.1	81	nw.	10	4.5		8 k	0	nw.		0	0	cloudy	J. E. Lanouette.
Dubuque, Iowa	29.32	744.7	30.09	764.3	18.3	— 7.6	73	n.	10	4.5			10 n			0.04	1.0	light snow	J. Harvey Smith
Duluth, Minnesota	29.62	752.3	30.43	772.9	—14.0	—25.6	68	nw.	21	9.4		0	0			0.02	0.5	clear	E. R. Brace.
Eastport, Maine	30.04	763.0	30.11	764.8	28.6	— 2.2	77	calm	0	0		3 c	5 s	sw.	sw.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.30	693.4	30.23	767.8	29.3	— 1.5	84	n	28	12.5		0	5 s		n.	0	0	fair	J. C. Rickli.
El Paso, Texas	26.26	667.0	30.14	765.5	34.3	1.3	88	ne.	16	7.2			10 n		ne.	0.03	0.8	light rain	J. O'Dowd.
Erie, Pennsylvania	29.15	740.4	29.92	760.0	34.0	1.1	84	s.	13	5.8			10 s		s.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.52	749.8	30.24	768.1	— 2.0	—18.9	81	nw.	16	7.2		10 ck	0	n.		0.01	0.3	cloudy	L. M. Pindell.
Fort Smith, Arkansas	29.47	748.5	29.97	761.2	40.5	4.7	91	calm	0	0			10 s			0.09	2.3	cloudy	J. B. Campbell.
Galveston, Texas	29.81	757.2	29.85	758.2	57	13.9	86	s.	10	4.5			10 s			0.04	1.0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.20	741.7	29.91	759.7	19.0	— 7.2	84	n.	19	8.5			10 n			0.29	7.4	light snow	Joseph E. Mueller
Grant, Fort, Arizona	25.19	639.8	30.09	764.3	31.2	— 0.4	60	ne.	4	1.8		4 ck	0	nw.		0	0	fair	Chas. A. Read.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.30	769.6	30.31	769.9	38.0	3.3	82	nw.	8	3.6	.....	6 cs	0	w.	.....	0	0	fair	R. M. Crawford.
Helena, Montana	26.24	666.5	30.61	777.5	17	— 8.3	70	n.	3	1.3	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	S. W. Morrison.
Huron, Dakota	29.15	740.4	30.69	779.5	—14.0	—25.6	100	n.	16	7.2	.....	0	0	.....	.....	inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.05	737.9	29.89	759.2	37.5	3.1	62	sw.	7	3.1	.....	.....	10 s	.....	sw.	0	0	cloudy	C. F. R. Wappenhans
Indianola, Texas	29.77	756.1	29.80	756.9	58.2	14.6	95	s.	12	5.4	.....	9 k	0	s.	.....	inap.	inap.	cloudy	I. A. Reed.
Jacksonville, Florida	30.24	768.1	30.29	769.4	39.5	4.2	86	calm	0	0	.....	4 cs	fg.	.....	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.35	745.5	30.05	763.3	24.0	— 4.4	88	nw.	19	8.5	.....	1 k	0	nw.	.....	0.02	0.5	clear	F. Z. Gosewisch.
Key West, Florida	30.14	765.5	30.16	766.1	60	15.6	81	ne.	13	5.8	.....	0	6 k	.....	se.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.31	769.9	30.33	770.4	34.1	1.2	79	w	9	4.0	.....	0	3 s	.....	.....	0	0	clear	Wesley Blake.
Knoxville, Tennessee	29.11	739.4	30.19	766.8	34.2	1.2	59	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.37	746.0	30.21	767.3	6	—14.4	76	n.	22	9.8	.....	.....	10 s	.....	.....	0.18	4.6	cloudy	S. C. Emery.
Leavenworth, Kansas	29.14	742.7	30.20	767.1	24.4	— 4.2	82	n.	17	7.6	.....	.....	10 n	.....	.....	inap.	inap.	light snow	T. S. Outram.
Lewiston, Idaho	29.92	760.0	30.79	782.1	22.0	— 5.6	58	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.63	752.6	29.96	761.0	43.0	6.1	100	s.	1	0.4	.....	.....	10 n	.....	.....	0.26	6.6	light rain	W. U. Simons.
Los Angeles, California	29.84	757.9	30.24	768.1	43.7	6.5	76	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.40	746.7	29.99	761.7	41.0	5.0	73	s.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.46	748.3	30.18	766.6	29.0	— 1.7	67	sw.	1	0.4	.....	0	4 s	.....	.....	0	0	fair	Jno. Healy.
Mackinaw City, Michigan	29.47	748.5	30.17	766.3	0	—17.8	83	ne.	13	5.8	.....	.....	10 s	.....	ne.	0.10	2.5	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.34	770.6	30.35	770.9	34.0	1.1	74	nw.	9	4.0	.....	4 cs	0	w.	.....	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.80	655.3	30.57	776.5	12.7	—10.7	48	se.	2	0.9	.....	.....	10 n	.....	.....	0.12	3.0	light snow	F. Burge.
Marquette, Michigan	29.51	749.5	30.29	769.4	— 3.5	—19.7	81	nw.	18	8.0	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. Gilligan.
Memphis, Tennessee	29.65	753.1	30.01	762.2	39.8	4.3	100	se.	8	3.6	.....	.....	10 n	.....	.....	0.35	8.9	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.18	741.2	29.98	761.5	12.0	—11.1	91	n.	26	11.6	.....	.....	10 n	.....	.....	0.35	8.9	light snow	S. W. Rhode.
Mobile, Alabama	30.08	764.0	30.12	765.0	45.8	7.7	83	e.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.92	760.0	30.16	766.1	41	5.0	65	se.	6	2.7	.....	3 cs	7 s	nw.	se.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.69	754.1	30.80	782.3	—31	—35.0	100	n.	28	12.5	.....	0	0	.....	.....	0.16	4.1	clear	H. Bessant.
Mt. Washington, N. H.	23.45	595.6	30.08	764.0	11.5	—11.4	83	nw.	45	20.1	.....	.....	fg.	.....	nw.	0.03	0.8	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.45	748.0	30.06	763.5	37.0	2.8	89	s.	9	4.0	.....	.....	10 n	.....	s.	0.05	1.3	light rain	L. N. Jesunofsky
New Haven, Connecticut	30.02	762.5	30.14	765.5	27.3	— 2.6	83	sw.	3	1.3	.....	4 cs	3 s	.....	sw.	0	0	fair	J. H. Sherman.
New London, Connecticut	30.15	765.8	30.20	767.1	32.4	0.2	72	w.	8	3.6	.....	3 k	0	w.	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.03	762.7	52.2	11.2	81	se.	16	7.2	.....	.....	10 s	.....	s.	0	0	cloudy	M. Herman.
New York, New York	29.98	761.5	30.17	766.3	28.5	— 1.9	71	s.	7	3.1	.....	0	6 s	.....	.....	0	0	fair	H. J. Penrod.
Norfolk, Virginia	30.21	767.3	30.24	768.1	34.0	1.1	64	sw.	7	3.1	.....	0	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.39	695.7	30.51	774.9	7.4	—13.7	80	w.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. J. Mc Lean.
Olympia, Washington Ter	30.46	773.7	30.50	774.7	30.0	2.2	79	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb
Omaha, Nebraska	29.15	740.4	30.42	772.7	3.3	—15.9	69	n.	22	9.8	.....	0	0	.....	.....	inap.	inap.	clear	A. Pollak
Oswego, New York	29.64	752.8	29.99	761.7	34.7	1.5	74	s.	6	2.7	.....	.....	10 s	.....	w.	inap	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.34	745.2	29.92	760.0	53.2	11.8	92	s.	3	1.3	.....	.....	10 n	.....	.....	0.02	0.5	light rain	P. T. Jenkins.
Pensacola, Florida	30.11	764.8	30.14	765.5	54.1	12.3	80	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	M. McGaurau.
Philadelphia, Pa.	30.06	763.5	30.17	766.3	32	0.0	76	sw.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.55	415.8	30.25	768.3	— 9.0	—22.8	100	n.	7	3.1	.....	.....	10 n	.....	.....	0.01	0.3	light snow	H. Hall.
Pittsburg, Pennsylvania	29.16	740.7	30.01	762.2	36.5	2.5	72	s.	8	3.6	.....	8 cs	0	sw.	.....	0	0	cloudy	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. A. Garden.
Port Huron, Michigan	29.13	739.9	29.86	758.4	22.0	— 5.6	88	n.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	29.95	760.7	30.00	762.0	28.0	— 2.2	88	sw.	8	3.6	.....	10 ck	0	w.	.....	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.48	774.2	30.55	776.0	28.8	— 1.8	84	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.83	630.7	30.21	767.3	30.0	— 1.1	55	ne.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	N. D. Lane.
Provincetown, Mass.	30.13	765.3	30.16	766.1	34.4	1.3	84	sw.	9	4.0	.....	2 c	hz.	w.	.....	0	0	clear	O. N. Kitchel.
Red Bluff, California	30.00	762.0	30.37	771.4	47	8.3	42	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.58	751.3	29.83	757.7	51.4	10.8	92	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y.	29.25	742.9	29.96	761.0	30	— 1.1	78	s.	10	4.5	.....	10 k	0	sw.	.....	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.97	761.2	30.54	775.7	28.3	— 2.1	92	e.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. Nanry.
Sacramento, California	30.26	768.6	30.34	770.6	38.5	3.6	91	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.34	745.2	30.00	762.0	34.4	1.3	75	nw.	15	6.7	.....	0	2 s; sk	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.71	754.6	29.74	755.4	4	—15.6	100	w	.....	.....	2	.....	10 n	.....	.....	0.02	0.5	light snow	Fred. H. Clarke
St. Paul, Minnesota	29.42	747.3	30.36	771.1	— 6.0	—21.1	100	nw.	9	4.0	.....	0	1 s	.....	.....	0.07	1.8	clear	P. F. Lyons.
St. Vincent, Minnesota	29.81	757.2	30.79	782.1	—31	—35.0	100	nw.	9	4.0	.....	0	0	.....	.....	0.01	0.3	clear	C. B. Dilley.
Salt Lake City, Utah	26.02	660.9	30.58	776.7	12.7	—10.7	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.14	765.5	30.21	767.3	45.5	7.5	76	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.14	740.1	29.86	758.4	37	2.8	61	sw.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.14	765.5	30.17	766.3	31.2	— 0.4	78	sw.	11	4.9	.....	3 cs	0	.....	.....	0	0	clear	V. P. Chappel.
Sanford, Florida	30.21	767.3	30.26	768.6	46.0	7.8	96	n.	3	1.3	.....	6 cs	fg.	.....	.....	0	0	dense fog	J. B. Marbury
San Francisco, California	30.28	769.1	30.35	770.9	48.0	8.9	93	se.	3	1.3	.....	.....	fg.	.....	se.	0	0	dense fog	N. Gorom.
Savannah, Georgia	30.23	767.8	30.33	770.4	34.2	1.2	83	nw.	2	0.9	.....	10 cs	fg.	w.	.....	0	0	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.71	678.4	30.57	776.5	29	— 1.7	67	w.	16	7.2	.....	6 k	0	nw.	.....	0.01	0.3	fair	A. L. Mathews.
Shreveport, Louisiana	29.61	752.1	29.86	758.4	48.4	9.1	91	s.	5	2.2	.....	.....	10 s	.....	s.	0.04	1.0	cloudy	E. N. Meekins.
Sitka, Alaska	30.37	771.4	30.44	773.2	40.2	4.6	76	nw.	7	3.1	.....	0	5 ks	.....	nw.	0.74	18.8	fair	F. W. Fickett.
Smithville North Carolina	30.30	769.6	30.34	770.6	33.2	0.7	78	nw.	8	3.6	.....	5 c	0	.....	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.46	722.9	30.60	777.2	14	—10.0	66	calm	0	0	.....	.....	10 k	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.25	742.9	29.98	761.5	30.0	— 1.1	82	nw.	7	3.1	.....	.....	10 s	.....	nw.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.95	684.5	30.09	764.3	35.0	1.7	72	n.	4	1.8	.....	0	6 s	.....	.....	0	0	fair	J. W. Byram.
Tatoosh Id., Wash. Ter	30.42	772.7	.....	.....	30.8	2.7	88	e.	15	6.7	.....	0	4 s	.....	e.	0	0	fair	R. Connor.
Thomas, Camp, Arizona	27.39	695.7	30.22	767.6	31.5	— 0.3	62	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.12	739.6	29.86	758.4	32	0.0	78	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	A. Buell.
Unalaska, Alaska	29.79	756.7	29.81	757.2	31	— 0.6	88	calm	0	0	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Samuel Applegate
Vicksburg, Mississippi	29.74	755.4	30.01	762.2	48.0	8.9	77	se.	12	5.4	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	C. Dill.
Washington, D. C.	30.05	763.3	30.17	766.3	32.1	0.1	70	sw.	2	0.9	.....	5 c	0	w.	.....	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	26.18	665.0	30.31	769.9	22.5	— 5.3	84	nw.	5	2.2	.....	0	2 s	.....	w.	0	0	clear	F. H. Brandenburg
Wilmington, N. Carolina	30.31	769.9	30.37	771.4	35.0	1.7	53	sw.	2	0.9	.....	2 cs	0	.....	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	29.16	740.7	30.58	776.7	— 9.3	—22.9	70	n.	19	8.5	.....	0	0	.....	.....	0.01	0.3	clear	E. H. Thompson.
Yuma, Arizona	29.98	761.5	30.13	765.3	49.7	8.2	34	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.92	760.0	29.94	760.5	17.0	— 8.3	78	ne.	12	5.4	.....	.....	10 n	.....	.....	0	0	cloudy	George Cherulick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	76	24.4	.....	ne.	.....	.....	5	0	9 n	.....	ne.	0.44	11.2	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.00	558.8	.....	.....	50.9	10.5	89	nw.	2	1	.....	10; cs	1 k	w.	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.67	753.6	29.83	757.7	—25	—31.7	100	sw.	11	4.9	.....	0	0	.....	.....	0.03	0.8	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.09	764.3	68.0	20.0	89	n.	2	0.9	.....	0	0	.....	.....	0.14	3.6	clear	Robert Johnstone.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	78	e.	.....	.....	2	4 c	5 k	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.95	760.7	79	26.1	85	calm	.....	.....	0	.....	9 ks	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73	22.8	92	ne.	.....	.....	2	.....	.....	.....	.....	0.15	3.8	clear	Earl Flint.
York Factory, B. A.	29.54	750.3	29.61	752.1	—33.0	—30.1	.....	nw.	27	12.1	.....	.....	9 s	.....	nw.	0.15	3.8	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.89	759.3	29.91	759.6	77.4	25.2	87	n.	9.4	4.2	.....	0	6 k	.....	n.	.....	.....	fair	P. Fasiani.
Nuós, Bay of Panama	29.89	759.2	29.96	760.9	73.0	22.8	88	nw.	.....	.....	4	0	1 k	.....	n.	.....	.....	clear	Antonio Fabra.

Vessels with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 41° 06′, W. 53° 00′ †	30.55	776.0				ene.			4		2		e.	3 h'r	3 h'r	sm'h		clear.
S. S. Alleghany, N. 38° 55′, W. 74° 27′			40	4.4		sw.			3		0			0	0			clear.
Schr. Anna A. Holton, N. 35° 15′, W. 73° 46′ *†	30.24	768.1				wsw.			5		8		wsw.	3 h'r	3 h'r	r'gh	w.	fair.
S. S. Alps, N. 35° 20′, W. 70° 32′			59	15.0		sw.			2		7		sw.	0	0	short		fine.
S. S. British Prince, N. 49° 03′ W. 44° 43′†	30.38	771.6	31	— 0.6		w.			4		7		wnw.	0	0	mod.	nw.	fair.
S. S. Belgenland, N. 40° 47′, W. 69° 44′			42	5.6	83	wsw.			3				nw	0	0	long	sw.	clear.
S. S. City of Augusta, Savannah, Ga						nnw.			6		10		ne.					rainy.
S. S. Canada, (Br) N. 50° 34′, W. 0° 02′ †	29.73	755.1	53	11.7		sw.			8		10		sw.	12 h'r	12 h'r	r'gh	sw.	drizzling.
S. S. Canada, (Br) N. 49° 34′, W. 27° 03′	30.35	771.0	42.8	6.		wnw.			6				wnw.	rain	rain	h'vy	wnw.	cloudy.
S. S. Dorian, N. 38° 45′, W. 71° 41′	30.30	769.6				wsw.			6		6		wsw.	0	0	r'gh	w.	fair.
S. S. Denmark, N. 41° 50′, W. 63° 00′ †	30.40	772.1	44	6.7	91	sw.			3		4		sw.	0	0	sm'h		clear
S. S. Daniel Steinmann, N. 45° 34′, W. 53° 06′ †	30.37	771.4	43	6.1		s			5		9		sw.	0	0	hv'y	wsw.	overcast.
S. S. Gen. Werder, N. 48° 51′, W 31° 45′						wnw.			4		10		w.	7 h'r	7 h'r	h'vy	w.	raining.
Bg. Gipsy Queen, N. 40° 33′ W. 72° 30′						sw.			3				sw.	0	0	long	sw.	hazy.
S. S. Iowa, N. 50° 43′, W. 21° 00′ †	30.17	766.3	48	8.9		w			7		7		w.	8 h'r	8 h'r	high	w.	squally.
S S. Llandaff City, N. 44° 29′. W. 51° 15′*†	30.40	772.1	40	4.4		ssw.			4		7		w.	snow	snow			fair.
Bk Matthias, N. 35° 40′, W. 72° 40′*†	30.28	769.1	53	11.7					4		6		nnw.	0	0	4	sw.	fine.
S. S. New York. N 26° 05′ W. 79° 45′ *†	30.26	768 6	68	20.0		e.			6		3		e.			mod.	nne.	clear.
S. S. Neckar, off Dungeness, Eng	29.53	750.0	50.5	10.3	96	sw.			7		8		sw.	rain	rain	long	sw.	
S. S. Nova Scotian, N. 37° 15′, W. 74° 02′			45	7.2		ssw.			3		0					sm'h		clear
S. S. Nurnberg, N. 40° 08, W. 65° 55′	30.30	769.6	50.0	10.0		wsw.			6		9		wsw.	2 h'r	2 h'r	mod.	w.	cloudy.
S. S. Pavonia, N. 50° 04′, W. 25° 01′			46	7.8		w			8		6		w.	5 h'r	5 h'r	long	w.	squally.
S. S. Picqua, Boston, Mass			36	2.2	90	sw.			2				sw.	0	0	sm'h		cloudy.
S. S. Rhein, N. 43° 30′, W. 56° 37′	30.40	772.1				sw.			4		4		sw.	0	0	high	sw.	fair.
S. S. Romano, New York Harbor, N. Y	30.21	767.3	34	1.1		wsw.			2		6		wsw.	0	0			fair.
Bk. Rosina, N. 34° 56′, W. 73° 31′	30.32	770.1	59	15.0		sw.			4		8		wnw	0	0	mod	n.	cloudy.
S. S. State of Georgia, N. 41° 14′, W. 65° 32′			44	6.7		sw.			4		0			0	0	sli't	sw.	clear.
Bgt. Sunlight, N. 25° 30′, W. 69° 45′ †	30.19	766.8				ne.			4		4		ene.	0	0	mod.	ne.	fair.
S. S. Thingvalla, N. 48° 14′, W. 43° 30′†	30.43	772.9	27.5	— 2.5		sw.			3		8		sw.	3 h'r	3 h'r	h'vy	sw.	cloudy.
S. S. Valencia, Curacao, W.I †	30.05	763.3	77.5	25.3	75	ene.			3		2		e.	0	0			clear.
S. S. Zaandam, N. 44° 05′, W 48° 43′	30.53	775.4	52.3	11.3	95	var.			2		8		var.	4 h'r	4 h'r	mod.	w.	cloudy.
Bk. Ariadne, New York, N. Y	30.18	766.6	29	— 1.7		w.			1		1		w.	0	0			fair.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I †	30.18	766.6	68	20.0		ne.			1		10		se.	0	0			cloudy.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.15	765.8				calm			0		5		n.	0	0	r'gh	ne.	fair.
Bk. Asreola, N. 16° 19′, W. 57° 07′†	30.10	764.5	83	28.3		ne.			6		5		ene.	1 h'r	1 h'r	mod	ene.	squally.
U. S. S. Alliance, St. Nicholas, Hayti, W. I	30.09	764.3	75	23.9	77	se.			1		2			0	0	sm'h		clear.
S. S Bothnia N. 40° 20′, W. 72° 03′	30.16	766.1	46	7.8	100	wsw.			4		8		w.	0	0	sm'h		cloudy.
S. S. Chalmette, Sandy Hook, N. J †	30.12	765.0	34	1.1		w.			5					0	0			clear.
S. S Donau, N. 50° 22′, W. 1° 44′	29.79	756.7	51.8	11.0		sw.			8		10		sw.	7 h'r	7 h'r	rg'h	sw.	misty.
S. S. England, Mersey river, Eng						sw.			6		10 k		sw.	8 h'r	8 h'r			squally.
Schr. Ellen Crusoe, N. 32° 30′ W. 71° 06′ *†	30.43	772.9				ne.							ne.	0	0	short		cloudy.
S. S. Grecian, Havre, France			52	11.1	93	sw.			6		10		w.	0	0			overcast.
S. S. Holland, N. 49° 50′. W. 14° 48′			42	5.6		w.			7		10		w.	0	0	r'gh	w.	cloudy.
Bg. John Welsh, jr., Mobile, Ala †	30.14	765.5				se.			5		10		se.					cloudy.
S. S. Muriel, N. 12° 30′, W. 60° 21′	30.00	762.0	78	25.6		ene.			3		0					long	ene.	clear.
S. S. Ontario, N. 49° 56′, W. 33° 10′			38	3.3		wsw.			6		10		wsw.	0	0	cross		overcast.
S. S. Orinoco, New York. N.Y †	30.10	764.5	28	— 2.2		sw.			1		4			0	0			fine.
Bk. Saga, N. 27° 49′, W. 67° 30′ *†	30.24	768.0	69	20.6		var.			6		8		var.	10 h'r	10 h'r	long	nw.	cloudy.
S. Storm King, N. 48° 33′, W. 16° 55′ *†	30.28	769.1				nw.			8		8		nw.	8 h'r	8 h'r	high	w.	cloudy.
S. S. Salerno, N. 49° 35′, W. 11° 16′ †	29.95	760.7	50	10.0		w.			9		7		w.	0	0	h'vy	w	squally.
U. S. S. Swatara, Port au Prince, Hayti, W.I	30.18	766.6	74	23.3	81	e.			1		1		e.	0	0			clear.
U. S. S. Tennessee, Aspinwall, U. S. C	29.93	760.2	77	25.0	82	nne.	14	6.3			5		ne.	inap.	inap.	long	n.	cloudy.
U. S. S. Vandalia, N. 11° 40′, W. 63° 16′	30.03	762.7	76	24.4	82	ene.			2		8							cloudy.
S. S. Venetian, N. 49° 31′, W. 27° 27′*	30.32	770.1	46	7.8		w.			7		8	wsw.	ese.	3 h'r	3 h'r	high	wnw.	gloomy.
S. S. Westernland, Antwerp, Belgium	29.72	754.9	53	11.7		sw.			6		10		sw.	14 h'r	14 h'r			overcast.
S. S. Zeeland, N. 49° 23′, W. 17° 53′			55	12.8		wnw.			6		hz		wnw.	0	0	h'vy	wsw.	fair.
S. S. City of Berlin, N. 49° 20′, W. 38° 30′	30.39	771.9	37	2.8		wsw.			6									cloudy.
S. Oreola, N. 3° 17′, W. 24° 37′*	30.02	762.5				var.			3		8?		se.	12 h'r	12 h'r	sm'h		clear?
U. S. Navy Yard, Portsmouth N.H			26	— 3.3	88	wsw.	4	1.8			0			0	0			clear
U. S. S. Kearsarge, Leghorn, Italy	30.28	769.1	55	12.8	81	w.			3		10							overcast.
U. S. S. Lancaster, Leghorn, Italy			54	12.2	100	wnw.			3		10		wnw.	0	0	sm'h		cloudy.
U. S. S. New Hampshire, Newport, R. I	30.15	765.8	35	1.7	80	sw.			2		8					sm'h		fair.
U. S. S. Quinnebaug, Leghorn, Italy	30.29	769 4	53	11.7	80	wnw.			2		10		w.			sm'h		cloudy.
U. S. S. Shenandoah, St. Vincent, Cape Verd Ids			73	22.8	85	ne.			3		5					sm'h	w.	fair.
U. S. S. Trenton, Marseilles, France	30.38	771.6	52	11.1	79	nnw.			1		2		nw.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.40	772.1	58	14.4	82	w.			2		3	w.						d. clouds
H. M. S. Alecto, N. 4° 56′, W. 9° 53′	29.96	761.0	85	29.4		w.			1							2	sw.	d. clouds.
H. M. S. Comus, N. 22° 30′, W. 27° 20′	30.32	770.1	69	20.6	80	ne.			4		8					4	nne.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.33	770.4	62	16.7	72	ene.			4		4	ene.						d. clouds
H. M. S. Minotaur, Palma, Majorca, Spain	30.47	773.9	55	12.8	81	calm			0		0							blue sky.
H. M. S. Tyne, N. 10° 26′, W. 22° 07′	30.03	762.7	76	24.4	77	nne.			4		0					4	nne.	misty.
H. M. S. Woodlark, N. 32° 15′. E. 30° 40′	30.14	765.5	59	15.0	54	wnw.			6		5	nnw.				6	nnw.	showery.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.87	758.6	83.3	28.5	81	ssw.			3		0					2	sw.	
S. S. British Crown, N. 48° 54′, W. 41° 26′			36	2.2		sw.			4		9		sw.	2 h'r	2 h'r	mod.	sw.	
S. S. Ohio, (Am) Philadelphia, Pa *†	30.19	766.8	25	— 3.9		sw.			1		2		sw.	0	0			clear.
S. S Pennsylvania, Philadelphia, Pa †	30.22	767.6	24	— 4.4	87	s.			3		0			0	0			
S. S. Polynesian, Halifax, N. S			10	—12.2		nw.			1		10			0	0			foggy.
S. S. Prussian, N. 53° 13′, W. 29° 58′	30.28	769.1	35	1.7		w.			7		10		w.	2 h'r	2 h'r	h'vy	w	hailing.
S. S. Sardinian, N. 50° 02′, W. 42° 38′	30.35	770.9	31	— 0.6		sw.			5		9		sw.	0	0	mod.	sw.	cloudy.
S. S. Ailsa, N. 38° 44′, W. 73° 56′ *†	30.20	767.1	45.5	7.5	80	sw.			7		8		sw.	0	0	h'vy	sw.	cloudy.
S. S. Devonia, N. 43° 19′, W. 56° 20′			41	5.0		s.			3		7		se.	3 h'r	3 h'r	sm'h		cloudy.
S. S. Carroll, Halifax, N. S *†	30.22	767.6	46?	7.8?		sw.			3		10		sw.					cloudy.
S. S. Scythia, N. 50° 09′, W. 23° 44′	30.29	769.4	49	9.4	78	wnw.			5		9?		wnw.	4 h'r	4 h'r	h'vy	wnw.	clear.?
S. S. Wisconsin, N. 40° 36′, W. 69° 00′			47	8.3		s.			3		0			0	0	sm'h		clear.
S. S. Bohemia, Hamburg, Germany						s.			3-4		6?		wnw.	12 h'r	12 h'r			overcast?
S. S. Frisia, N. 48° 40′ W. 36° 00′	30.36	771.1	42	5.6		nw.			2		10			0	0	h'vy	nw.	overcast.
S. S. Archimedes, (Br) N. 50° 35′, W. 12° 51′	29.70	754.4				w.			9		8		w.	mist	mist	h'vy	w.	cloudy.
S. S. Hevelius, Liverpool, Eng			50	10.0		nw.			8		10		w.	20 h'r	20 h'r			cloudy.
S S. Teuiers, N. 10° 24′, W. 27° 53′	30.07	763.8	76.5	24.7	78	nne.			5		ck	5 k		0	0	long	nne.	misty.
S. S. Olbers, N. 42° 51′, W. 58° 26′			45.5	7.5	96	sse.			5		3							d. clouds.
S. S. Archimede, (It) Palermo, Sicily †	30.49	774.4	66	18.9		ne.			2		4		ne.	0	0			clear.
S. S. Texas, N. 26° 37′, W. 73° 04′*†	30.23	767.8	67	19.4	89	se.			2		5?		se.	0	0	sm'h		cloudy?
S. S. Erin, London, Eng	29.59	751.6	47	8.3		w.			10		8		w.	8 h'r	8 h'r			raining.
S. S. Strassburg, N. 50° 16′, W. 2 - 22′			52.5	11.4	93	sw.			6-7		10		sw.	6 h'r	6 h'r	7	sw.	light rain.
S. S. Rhynland, N. 45° 22′, W. 51° 33′			35	1.7	80	s.			4		10		w.	0	0	sm'h		cloudy.
S. S. Switzerland, N. 50° 52′, E. 1° 14′ *†	29.68	753.9				s.			6		10		s.	14 h'r	14 h'r	h'vy	s.	drizzling.
S. S. Waesland, New York, N. Y	30.18	766.6	33	0.6		ssw.			3		7			0	0			fair.
S. S. P. Caland, N. 49° 26′, W. 31° 37′	30.29	769.4	46.0	7.8	86	nw.			3		6?		nw.			6	w.	clear?
S. S. State of Nevada, Glasgow, Scotland			41	5.0		wsw.			6		10		sw.	rain	rain			heavy rain.
S. S. Saxon, Boston, Mass			31	— 0.6		ssw.			1		4							fine.
S S. Celtic, Liverpool, Eng			52	11.1		sw.			8		10		sw.	22 h'r	22 h'r			raining.
S. S. Rialto, N. 40° 37′, W. 69° 20′ †	30.22	767.6	50	10.0		sse.			4		2		s.	0	0	sm'h	s.	fair.
Bg. Alcira, N. 20° 04′, W. 66° 31′	30.10	764.5	75	23.9		ese.			3		4		ese.	0	0	mod.	ese.	hazy.
S. S. Antonio Lopez, Cadiz, Spain	30.51	774.9	51.5	10.8	69	nw.			1		0			0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Adda Doane, Savannah, Ga †	30.27	768.8				nne.			1		6?		ne.	0	0			clear ?
Bgt. Achsah, Clementsport, N. S†	30.10	764.5	32	0.0		sw.			2		5		sw.	0	0			fair.
Bk. Bayonnaise, N. 35° 01′, W. 43° 24′			64.4	18		s.			3		5		sw.	0	0	sm'h	s.	fair.
Bk. Chas Stewart, N. 27° 10′, W. 36° 20′			71	21.7		ne.			6		5		e.	light	light	r'gh	e.	fair.
Schr. C. R. Flint, N. 33° 16′, W. 63° 50′			62	16.7		ne.			3		4		e.	3 h'r	3 h'r	long	ne.	fair.
Schr. Clotilde, Key West, Fla †	30.16	766.1	64	17.8		ne.			4		5		se.	0	0			fair.
Bk. Celestina, N. 25° 04′, W. 21° 01′*†	30.46	773.7				ne.			4		2		ne.	0	0	mod.	ene.	hazy.
Bkt C. S. Bushnell, N. 38° 00′, E. 3° 24′	30.44	773.2				w.			2		0			0	0			
S. Dora, N. 63° 42′, W. 6° 41′			32.9	0.5		ne.			3		5		wsw.	0	0	h'vy	wnw.	fair.
S. E. J. Spicer, N. 50° 40′, W. 10° 00	29.66	753.4	50	10.0	79	w.			9		10		var.	rain	rain	high	wnw.	raining.
S. E. B. Sutton, N. 49° 00′, W. 18° 30′ *†	30.28	769.1	59	15.0	88	wnw.			7		5		wnw.	rain	rain	h'vy	nw.	fair.
Bk. Fred W. Carlon, N. 32° 08′, W. 71° 34′						var.			4		4		nw.	0	0	mod.	nw.	fair.
S. Hedwig, N. 36° 10′, W. 0° 45′	30.51	775.0	56.7	13.7	76	nnw.			1		2		var.	0	0	sm'h		clear.
Bk. Heinrich & Tonio, N. 50° 26′, W. 0° 37′			51	10.6	93	sw.			7		10		sw.	17 h'r	17 h'r	r'gh	w.	rainy.
Bk. Hattie G. McFarland, Ship Island, Miss						e.			4		10		e.	0	0			threatening.
S. Henry, N. 39° 30′, W. 19° 20			60.8	16.0		w.			3		10					3	wnw.	cloudy.
Bk. Idaho, N. 20° 55′, W. 71° 45′ *†	30.24	768.1				ene.			4		3		ene.	3 h'r	3 h'r	sm'h		clear
Bg. John Wesley, Havana, Cuba, W.I						ne.			5		6		ne.	0	0			fair.
Schr. John L. Thomas, Hobbies Cays, C. A †	29.98	761.5	76	24.4	91	ne.			5		8		ene.	¼ h'r	¼ h'r	h'vy	nne.	squally.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.10	764.5				ene.			1		1		ene.	¼ h'r	¼ h'r			clear.
S. S. Laurel, Florida Bay, Fla†	30.19	766.8	64	17.8		ne.			2-3		5		e.	0	0			fair.
S. S. Madrid, London, Eng †	29.53	750.0	54	12.2	93	sw.			9		10		ssw.	12 h'r	12 h'r			raining.
Schr. Norena, N. 42° 30′, W. 67° 30′						wsw.			3		0			0	0	light	sw.	fine.
S. Parker M. Whitmore, N. 3° 33′, W. 30° 02′ *†	29.97	761.2	83	28.3		ne.			3		4		nne.	3 h'r	3 h'r	short	nne.	fair.
S. S. P. de Satrastegui, N. 39° 17′ W. 51° 23′						n.			8		10		n.	22 h'r	22 h'r	cross	var.	hazy.
Bg. Rising Sun, N. 23° 35′, W. 60° 00′†.	30.22	767.6	75	23.9		ese.			5		3		ese.	0	0	long	ese.	clear.
Bk. Rosalie, N. 43° 17′, W. 29° 00*†	30.53	775.4				nnw.			3		10		nw.	2¼h'r	2¼h'r	long	wnw.	cloudy
S Salisbury, N. 20° 07′, W. 40° 06′	30.32	770.1	70.9	21.6	84	ene.			6		10 km		ene	5 h'r	5 h'r	h'vy	var.	cloudy.
S. S. City of Alexandria, Havana, Cuba, W.I *†	30.15	765.8	68	20.0		e.			2							mod.	nne.	blue sky.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.85	758.2	78	25.6	91	ne.			1		10		calm			sm'h		cloudy.
U. S. S. Pinta, Rio de Janiero, Brazil	30.19	766.8	75	23.9	90	ne.			1		10		se.					cloudy.
H. M. S. Amethyst, S. 37° 03′, W. 55° 45′	29.84	757.9	73.2	22.9	89	nne.			3		2	ese.				2	nne.	misty.
H. M. S. Boadicea, S. 14° 50′, W. 60° 58′	30.02	762.5	77	25.0		se.			2		3	se.				3	se.	blue sky.
H. M. S. Opal, S. 31° 29′, E. 17° 34′	29.87	758.7	66	18.9	94	var.			1		7	sse.				3	sse.	misty.
H. P. M. S. Tejo, S. 7° 51′, E. 13° 04′	30.09	764.2	82.4	28.0	96	sw.			1		3			0	0	2	sw.	d. clouds.
S. S. Sirius, Santos, Brazil	30.14	765.5				calm			0		2		ene.	0	0			clear.
Bg. Daphne, S. 2° 10′, W. 32° 46′ *†	29.92	760.0	81	27.2	74	se.			3		3		se.	0	0	sm'h	se.	clear.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.10	764.5	82	27.8		calm			0		8			0	0			fine.
Bkt. Levanter, S. 23° 24′, W. 39° 12′*	30.20	767.1	75	23.9		n.			5		10			1 h'r	1 h'r	mod	s.	raining.
S. St. David, S. 32° 28′, W. 26° 05′*†	30.53	775.4	65	18.3	89	se.			3		4		se.	0	0	long	ssw.	fine.
S. David Stewart, Pernambuco, Brazil †	29.84	757.9	87	30.6		se.			4		2		se.	0	0			
Bk Godeffroy, S. 38° 12′, W. 33° 41′	30.22	767.6	61.3	16.3	78	nw.			6		3		wsw.	0	0	mod.	wnw.	clear.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.00	762.0	52.5	11.4	79	sw.			4		2		w.	light	light			clearing.
U. S. S. Adams, Sitka, Alaska †	30.42	772.7	40	4.4	82	w.			2		10							cloudy.
U. S. S. Alert, N. 15° 48′, E. 170° 42′	29.95	760.7	79	26.1	78	e.			1		2		e			long	e.	clear.
U. S. S. Essex, Canton, China	30.12	765.0	72	22.2	80	calm			0		10							overcast.
U. S. S. Juniata, Shanghai, China	30.25	768.3	48	8.9	85	nw.			1		10			light	light			cloudy.
U. S. S. Monocacy, Shanghai, China	30.21	767.3	47	8.3	77	nw.			2		10		calm					cloudy
U. S. S. Richmond, Shanghai, China	30.25	768.3	49	9.4	93	wnw.			3		10		wnw.	0.70	17.8			cloudy
H. M. S. Audacious, Hong Kong, China	30.07	763.8	69	20.6	90	e.			1		1	ne.						blue sky.
H. M. S. Cleopatra, off Amoy, China	30.06	763.5	65	18.3	89	calm			0		0					sm'h		blue sky.
H. M. S. Champion, Shanghai, China	30.21	767.3	51	10.6	86	ne.			1		0?							overcast.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.85	758.2	82.1	27.8	80	calm			0		9							misty.
H. P. M. S. Pamega, Macao, China	30.14	765.6	68.9	20.5	91	calm			0		10			0	0			overcast.
S. S. Newbern, Mazatlan, Mexico*†	30.09	764.3	70	21.1	75	calm			0		0			0	0	small	sw.	clear.
S. S. Oregon, Portland, Oregon †	30.54	775.7	28	— 2.2		calm			0		0							foggy.
S. S. Alameda, Honolulu, Sandwich Islands†	30.14	765.5	70	21.1	66	ne.			6		5		ne.	0	0			fair.
S. S. Ancon, San Francisco, Cal†	30.32	770.1	48	8.9	100	calm			0		0			0	0			foggy.
S. S. City of Chester, San Francisco, Cal.†	30.34	770.6	47	8.3	92	calm			0		10							
S. S. Orizaba, N. 32° 40′, W. 117° 14′†	30.23	767.8	55	12.8	81	s.			2		0			0	0	long	sw.	clear.
S. S. Queen of the Pacific, Port Townsend, Wash. Ter			41	5.0	82	n.			1		10			0	0			overcast.
S. S. State of California, Portland, Oregon			28	— 2.2	88	calm			0		0							clear.
S. S. City of Pekin, N. 43° 10′, W. 139° 17′			51	10.6	79	se.			4							mod.	ssw.	clear.
S. S. City of Rio de Janeiro, N. 21° 10′, W. 156° 58′†	30.16	766.1	74	23.3		ne.			6		6		ne.			mod.	ne.	fair.
S. S. City of Sydney, N. 24° 21′, W. 152° 11′ *†	30.07	763.8	71	21.7	75	ne.			6		6 k		ne.			h'vy	ne.	fair.
S. S. Granada, Panama, Panama †	29.91	759.7	74	23.3	90	wnw.			1		0			0	0	light	nw.	clear.
S. S. San Blas, N. 19° 49′, W. 105° 44′ †	29.95	760.7	73	22.8	90	nw.			4		2		calm	0	0	small	n.	hazy.
S. S. Zealandia, N. 34° 31′, W. 128° 40′	30.51	774.9	56	13.3	75	nw.			4				w.	8 h'r	8 h'r	mod.	nw.	fine.
Bk. Alpheus Marshall, N. 17° 51′, E. 148° 03′*†	30.04	763.0	74	23.3	72	ne.			6		3		ne.	0	0	r'gh	nne.	clear.
S. S. Benalder, N. 22° 15′, E. 114° 30′*	30.18	766.6	68	20.0	90	n.			2-3		5		e; n.	0	0	sm'h		fair
S. Carondelet, S. 2° 57′, E. 126° 05′*†	29.91	759.7				wnw.			3		4		wnw.	4 h'r	4 h'r	sm'h	nw.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 12° 53′, W. 92° 55′	29.99	761.7	73	22.8	95	ese.			3		2		ese.	0	0	sm'h	se.	clear.
U. S. S. Lackawanna, S. 12° 55′, W. 80° 09′	29.93	760.2	74	23.3	76	se.			2		5		se.			sm'h	se.	fair.
U. S. S. Onward, Callao, Peru*†	30.04	763.0	71	21.7	95	se.			2		5		se.			mod.	w.	fair.
U. S. S. Wachusetts, Callao, Peru.*	29.99	761.7	70	21.1	95	sse.			1		5					sm'h		fair
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.82	757.4	57	13.9	87	calm			0		2					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.89	759.2	67	19.4		nne.			1							1	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.50	749.3	59	15.0	?	calm			0		4							d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	28.62	726.9	50	10.0	79	nw.			1		9	calm						d. clouds.
S. S. Australia, Sydney, N. S. W	29.94	760.5	72	22.2		nw.			2		3		e.	0	0			clear.
S. S. George S. Homer, S. 47° 02′, W. 122° 18′*†	29.70	754.4				nne.			5		1?		ne.			r'gh	var.	cloudy.?
S. Ismir, S. 19° 20′, W 77° 00′*	30.25	768.5				calm			0		1		calm	0	0	long	ssw.	clear.
S. St. Francis, S. 21° 49′, W. 92° 20′ *†	30.20	767.1	73	22.8	76	se			4		2		se.	0	0	mod	se.	clear.
S. Grecian, S. 43° 42′, W. 126° 32′ †	29.64	752.8	60	15.6	88	nw.			4		2		nw.	h'r	2 h'r	mod.	ne.	hazy.
S. Henry Failing, S. 48° 30′, W. 128° 15′*†.	29.65	753.1	53	11.7	100	e.			4		10			4 h'r	4 h'r	long	ne.	misty.
H. M. S. Espeigle, S. 45° 49′, E. 170° 39′	29.88	758.9	52	11.1	79	nne.			4		8							squally.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Majunga, Madagascar	29.68	753.9	80	26.7	91	wnw.	20	8.9			10		wnw.	0.16	4.1	mod.	wnw.	raining.
U. S. S. Pensacola, Tamatave, Madagascar *	29.62	752.3	81	27.2	83	ne.			2		10		ne.	0.83	21.1	gr'nd	ene.	cloudy.
H. M. S. Coquette, N. 15° 36′, E. 39° 44′	30.02	762.5	75	23.9	77	w.			2		6	w.				sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	30.07	763.8	69	20.6	70	ne.			3		0							blue sky
H. M. S. Orontes, S. 0° 10′, E. 47° 28′	29.86	758.4	79	26.1	100	ne.			4		1					2	ne.	misty.
H. M. S. Tourmaline, S. 20° 30′, E. 49° 00′	29.67	753.6	81	27.2	87	nne.			2							7	nne.	raining.
S. S. Galatia, Calcutta, India†	30.01	762.2	70	21.1	95	ese.			1		0			0	0			clear.
S. S. Port Phillip, S. 14° 18′, E. 87° 36′*	29.86	758.4	86	30.0		ese.			3-4							sm'h	e.	squally.
S. S. Radnorshire, N. 11° 09′, E. 62° 20′*†	29.98	761.5				ne.			4		1		ne.	0	0	light	nne.	clear.
S. S. Lepanto, N. 14° 13′, E. 50° 18′	29.92	760.0	76	24.4		ssw.			1		4		sw.	0	0	sm'h		fair.

International Chart I. January 23, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 24, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.36	771.1	59.7	15.4	81	w.			1		0			0	0	clear	Roziere.
Algiers					52.0	11.1	85	wsw.			4		5			0	0	cloudy	Aubert.
La Galle			30.38	771.6	62.2	16.8	70	sw.			2		2			0	0	fair	Fonfrède.
Tunis			30.39	771.8	55.4	13.0	62	nw.			3		2			0	0	fair	Delord.
Tebessa					48.9	9.4	82	s.			3		1			0	0	very fair	Hans.
Geriville					46.4	8.0	46	nw.			2		0			0	0	clear	Forfert.
Laghouat			30.46	773.7	55.8	13.2	66	calm			0		0			0	0	clear	Abraham.
Biskra			30.39	772.0	55.8	13.2	57	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.07	738.4	55.3	12.9	80	ssw.	15	6.7			9 k					showery	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.30	744.2	29.48	748.8	53	11.7	87	w.			3		10		w.	0.84	21.3	cloudy	Com. I. Short, R.N.
Melbourne, Victoria	29.66	753.3	29.75	755.6	56.3	13.5	85	w.	20	8.9			9			0.21	5.3	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.12	739.6	29.67	753.7	45.3	7.4	56	se			3		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.55	725.1	29.31	744.5	45.3	7.4	50	w.	27.3	12.2			5			0.551	14.0		Dr. Wierzbiski
Eperies	28.52	724.4	29.42	747.2	36.0	2.2	85	se.			2	cs	7 s		ne.	0	0		Julius Mikolik.
Gratz	28.37	720.5	29.61	752.2	48.2	9.0	50	nw.			4		2			0	0		Andreas Rospini.
Hermannstadt	28.24	717.2	29.68	753.9	41.2	5.1	75	n.			4		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.34	719.8	29.70	754.3	42.8	6.0	58	w.			5		6			0.043	1.1	fine	The Staff.
Lemberg	28.32	719.2	29.31	744.5	40.1	4.5	76	sw.			4		8			0.028	0.7		Dr. T. Stanecki.
Pola	29.64	752.9	29.75	755.7	50.4	10.2	82	wsw.			2		10			0	0		I. R. Hydrographic Office.
Szathmar	29.06	738.2	29.54	750.2	39.0	3.9	78	sw.			5		10			0.012	0.3		Joseph Midliuszky, S. J
Szegedin	29.37	746.1	29.66	753.3	42.4	5.8	79	sw.			1		10			0.213	5.4		Karl Stancel.
Trieste	29.71	754.6	29.81	757.1	46.0	7.8	88	calm			0		10			0	0		Royal Academy.
Vienna	28.84	732.6	29.56	750.8	46.0	7.8	42	w.			7		0			0.028	0.7		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.16	715.3	29.58	751.3	36.3	2.4	98	sw.			3		3			0.630	16.0		
Brussels	29.60	751.8	29.80	757.0	41.7	5.4	57	w.			7		10		var.	0.319	8.1		
Furnes	29.78	756.5	29.80	757.0	43.7	6.5	85	wnw.			2–3		2			0.197	5.0		
Maeseyck	29.60	751.9	29.71	754.7	41.4	5.2	65	nw.			4		10			0.543	13.8		
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			29.78	756.4	40.9	4.9	67	w.	41	18.3			6					d. clouds	John Hartnup.
Bolton, Sharples	29.21	741.9	29.75	755.6	39.5	4.2	76	w.	30	13.4			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.31	744.5	29.71	754.6	40.1	4.5	72	sw.			5		7			0.90	22.9	raining	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.00	762.0	30.03	762.7	80	26.7	74	ne			2		6					gloomy	Corp'l W. I. Cull, A.H.C.
Cardington	29.75	755.6	29.87	758.7	39.2	4.0	77	nw.			4.0		2					blue sky	John McLaren.
Chatham, School M. E.	29.72	754.9	29.89	759.2	42.1	5.6	60	nw.			1		0			blank	blank	misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.85	758.2	30.09	764.3	45.0	7.2	68	wnw.			3		4			blank	blank	d. clouds	The Staff.
Fort Napier, Natal	27.47	697.7	29.78	756.4	79.0	26.1	63	se.			2		10					thunder	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	87	30.6	62	n.			2		0?					d. clouds?	J. W. Smith.
Galway, Queen's College	29.84	757.9	29.88	758.9	38	3.3	90	nw.			4		6			0.37	9.4	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.28	769.1	30.34	770.6	58.2	14.6	92	nw.			5		4					d. clouds	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	29.73	755.1	29.91	759.7	41.6	5.3	79	w.					0					blue sky	The Staff.
Guernsey	29.71	754.6	30.02	762.5	45.0	7.2	96	nw.			4		6					d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	29.89	759.2	29.93	760.2	42.4	5.8	52	wnw.	20	8.9			2					blue sky	The Staff.
Leicester, Museum	29.58	751.3	29.84	757.9	43.0	6.1	96	w.			2		1					blue sky	J. C. Smith.
Malta, Mediterranean	30.04	763.0	30.12	765.0	58.2	14.6	67	w.			2		4			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.18	766.6	71.0	21.7	95	se.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.68	753.9	29.91	759.7	41.8	5.4	66	wnw.			6		0					blue sky	The Staff.
Plymouth	29.98	761.5	30.05	763.3	43.7	6.5	82	nw.			2		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.10	739.1	29.21	741.9	30.1	2.3	63						5					hail showers	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.78	756.4	29.85	758.2	50.4	10.2	63	sw.			3		4					d. clouds	W. H. Lyne.
Sheffield	29.50	749.3	29.79	756.7	40.3	4.6	71	sw.			3		3			0.12	3.0	d. clouds	W. F. Cooper.
Silloth Rectory	29.64	752.8	29.67	753.6	36.8	2.7	95	wnw.			5		3			0.075	1.9	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.76	755.9	39.0	3.9	73	w.	34	15.2			6					d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					43.0	6.1	61	nw.			1.5		0					blue sky	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.02	762.5	30.04	763.0	43.0	6.1	79	wnw.	22	9.8			7			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.78	756.4	30.18	766.6	55.4	13.0	73	nw.	11.2	5.0		0	9 k		nw.	0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.21	767.3	30.25	768.3	6.0	−14.4		calm	0	0			10 n			0.70	17.8	snowing	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.11	764.8	30.16	766.1	25	−3.9	97	calm	0	0			10 n		calm	0.020	0.5	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.17	766.3	30.24	768.1	6	−14.4	100	n.	2	0.9			10 n		n.	0.04	1.0	light snow	G. A. Blair.
Cornwall, Ontario	30.01	762.2	30.22	767.6	2.5	−16.4	86	e.			1		10 n			0.200	5.1	snowing	Jas. Smith, M. A.
Dalhousie, N. B	30.20	767.1	30.25	768.3	4.5	−15.3		e.			3		10 n			inap.	inap.	snowing	H. A. Johnson.
Father Point, Quebec*	30.27	768.8	30.29	769.4	−5	−20.6	87	ne.	20	8.9			10 n			0.50	12.7	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.15	740.4	30.11	764.8	−13	−25.0	96	s.	27	12.1			10 s		s.	0	0	cloudy	James Stewart.
Fredericton, N. B	30.14	765.5	30.21	767.3	13.0	−10.6	98	ne.	6	2.7			10 n			0.090	2.3	snowing	Prof. Thos. Harrison.
Grand Manan, N. B	30.08	764.0	30.14	765.5	39	3.9	82	sw.	19	8.5			10 s			0	0	dense haze	J. Chipman Seeley
Granton, Ontario	29.12	739.6	30.38	771.6	−5.8	−21.0	93	n.	2	0.9			10 n			0.200	5.1	overcast	Jas. Grant.
Halifax, N. S*	30.11	764.8	30.24	768.1	38	3.3	96	sw.	11	4.9		4 ck	5 ks		w.	0	0	cloudy	A. Allison.
Hamilton, Ontario	29.66	753.4	30.11	764.8	−0.7	−18.2	86	ne.			1	0	10 n			0.700	17.8	snowing	Geo. Dickson, B. A.
Kingston, Ontario*	29.87	758.7	30.25	768.3	2	−16.7	79	n.	8	3.6			10 n		n.	0.14	3.6	light snow	A. P. Knight, M. A.
Little Glace Bay, N. S	30.12	765.0	30.16	766.1	38.0	3.3	91	sw.	3	1.3		4 ck	0	sw.		0	0	fair	C. H. Rigby.
London, Ontario	29.30	744.2	30.33	770.4	−2.0	−18.9	94	n.			3		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.69	703.3	30.12	765.0	21	−6.1	96	s.	0	0			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	27.76	705.1	29.90	759.4	−4	−20.0	100	sw.	18	8.0		c	8 ks		sw.	0	0	fair	Rev. J. M. Wellwood
Montreal, Quebec*	30.02	762.5	30.25	768.3	1	−17.2	79	ne.	5	2.2			10 n			0.16	4.1	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	30.03	762.7	30.29	769.4	−5.3	−20.7	90	nnw.					10 s			0.50	12.7	snowing	A. McGill, M. A.
Parry Sound, Ontario*	29.58	751.3	30.40	772.1	−18	−27.8	65	n.	8	3.6		0	0			0.06	1.5	clear	Rev. R. Mosley.
Peterboro, Ontario	29.48	748.8	30.31	769.9	−1.7	−18.7	81	n.			1		10 k			0.29	7.4	overcast	Wm. O'Connor, M.A.
Port Arthur	29.71	754.6	30.56	776.2	−22	−30.0	100	calm	0	0		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.49	749.0	30.27	768.8	1	−17.2	94	n.	9	4.0			10 n			0.60	15.2	threatening.	H. Morgan.
Port Stanley, Ontario	29.56	750.8	30.29	769.4	1	−17.2	79	n.	12	5.4			10 n		nw.	0.28	7.1	cloudy	M. Payne.
Qu Appelle, N. W. T	27.40	695.9	30.88	758.9	0	−17.8		w.	12	5.4		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.83	757.7	30.23	767.8	1	−17.2	91	n.	16	7.2			10 s		n.	0.75	19.0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.88	758.9	30.42	772.7	−16	−26.7	69	w.	5	2.2			8 s		w.	0.04	1.0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.07	763.8	30.12	765.0	36	2.2	99	sw.	13	5.8			10 n			0	0	cloudy	
St. John, N. B	30.00	762.0	30.16	766.1	32.0	0.0	93	s.	12	5.4			10 n			0	0	overcast	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			30.24	768.0	34.9	1.6		w.			2								The Commandant.
Saugeen, Ontario*	29.58	751.3	30.41	772.4	−12	−24.4	90	ne.	8	3.6		2 cs				0.21	5.3	clear	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	OBSERVERS
Canadian.—Continued.																			
Stratford, Ontario	28.87	733.3	30.32	770.1	— 4.6	—20.3	89	calm	0	0			10 n			0	0	overcast	W. Mc Bride, M. A.
Sydney, C. B*	30.19	766.8	30.25	768.3	30	— 1.1	96	sw.	5	2.2			10 s			0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.90	759.4	30.34	770.6	— 3	—19.4	87	n.	12	5.4			10 n			0.44	11.2	light snow	Magnetic Observatory.
Woodstock, Ontario	29.14	740.1	30.35	770.9	— 2.4	—19.1	83	nw.	10	4.5			10 s			0.480	12.2	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.15	765.8	30.21	767.3	38	3.3	96	sw.	10	4.5		10 n	0	w.		0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.96	761.0	29.99	761.7	70.0	21.1	97	se.					10			0.330	8.4	drizzling	I. Garfelt.
Cape Town, The Castle	29.74	755.4			88.3	31.3	38	s.				0	1 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.81	706.4			76	24.4	45									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.80	756.8	29.87	758.8	65.3	18.5	90	n.			1	10	0					cloudy	Samuel Redolez.
Iquique	29.89	759.1	29.91	759.8	72.3	22.4	77	sw.			2	6 c	0					foggy	Rafael Moreno.
Niebla	29.54	750.4	29.65	753.1	57.9	14.4	63	e.			2	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.77	756.2	29.86	758.4	67.6	19.8	74	sw.			1	7 s	0	sw.				fair	Manuel Tobar.
Punta Corona	30.25	768.3	30.43	773.0				calm			0	10	0			0	0	clear	Francisco Alvarado.
Valparaiso	29.82	757.3	29.95	760.8	65.1	18.4	78	sw.				0	0					clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.35	770.8	30.37	771.4	41.5	5.3	89	nne.	5.1	2.3			10			0.114	2.9		M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.01	736.8	29.06	738.0	33.1	0.6	98	ne.	22	10			9						Oversergent Fischer.
Fanöe	29.30	744.1	29.32	744.6	33.4	0.8	77	nnw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.37	745.9	29.41	747.0	— 1.1	—18.4	100	n.			4		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	28.90	734.1	28.95	735.2	17.6	— 8.0	85	sw.			2		8						A. O. Thorlacius.
Thorshavn	28.89	733.9	28.92	734.5	31.8	— 0.1	60	w.	25	11			7						Overloerer Bergh.
Vestervig	29.15	740.3	29.24	742.7	31.5	— 0.3	85	w.			2		10						Loerer Oesterool.
Egyptian.																			
Cairo	30.13	765.3			59.9	15.5		w.	2.5	1.1		0	8 k			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.64	752.8	30.31	769.9	42.8	6	100	nnw.			1		10			0.098	2.5	misty	M. Labroue, Director.
Alençon, Normal School	29.45	748.0	30.00	762.0	43.2	6.2	79	w.			4		n		e.	0.04	1		M. Nicot, Director.
Arras, Normal School			29.84	758.0	42.8	6	64	nw.			6		2	sw.		0.193	4.9	slightly cl'dy	**M. Ungerer, Director.**
Avignon, Normal School	29.90	761.8	30.07	763.8	49.3	9.6	54	n.			2		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.48	748.7	30.05	763.2	42.6	5.9	62	wnw.			2		5		nw.	0.260	6.6	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.73	755.2	30.00	762.1	43.9	6.6	60	wnw.			2		2		nw.	0.228	5.8	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	29.11	739.3	30.06	763.6	42.8	6	73	sw.			1					0	0		M. Gobin, Director.
Bordeaux, Observatory	29.95	760.8	30.22	767.6	45.5	7.5	90	w.			1		8			0.185	4.7	covered	M. Rayet, Director.
Bourges, Normal School	29.57	751.1	30.13	765.4	45.5	7.5	66	w.			2		kn		w.	0.063	1.6		M. **Sauvageot, Director.**
Brest, Naval Observatory	29.96	760.9	30.20	767.0	49.6	9.8	76	wnw.			1		5		wnw.	0.071	1.8		M. de Kermarrée, Dir.
Caen, Normal School	29.95	760.7	30.02	762.6	46.8	8.2	100	nw.			1		5		nw.	0.08	2.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.67	753.5	30.00	761.9	43.7	6.5	77	wsw.			4		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.38	746.3	29.90	759.5	39.6	4.2	67	w.			5				wnw.	0.394	10.0		**M. Noël, Director.**
Clermont-Ferrand Obs'y	28.75	730.2	30.15	765.7	41.7	5.4	61	nw.			1		10			0	0		M. Allnard, Director.
Cluny, Normal School	29.24	742.8	30.11	764.9	42.4	5.8	75	sw.			2		6		sw.	0	0		M. de Villemontée, **Dir.**
Commercy, Normal School	29.10	739.1	30.00	761.9	39.9	4.4	69	w.			6		8 kn	w.	w.	0.04	1.	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.35	694.7	29.95	760.7	42.4	5.8	43	n.			6		5			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.78	731.1	29.93	760.1	46.9	8.3	59	nw.			4		8		nw.	0.031	0.8		M. Kina, Director.
Grenoble, Normal School	29.29	743.9	30.08	764.0	41.0	5	58	nw.			4		10			0	0	covered	M. Ablard, Director.
Guéret, Normal School	28.47	723.0	30.06	763.6	44.6	7	44	sw.			8		n		ssw.	0.12	3.		M. Delorme, Dir.
Lamballe, Normal School																			M. **Pollpre, Director**
Lescar, Normal School	29.69	754.2	30.33	770.3	48.6	9.2	84	w.			1		10 kn		e.	0.165	4.2	raining	M. Chauvin, Director.
Lorient, Naval Observatory	30.12	765.0	30.22	767.6	51.8	11.0	52	wnw.			2		2	w.	wnw.	0.024	0.6	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.04	737.6	30.13	765.4	41.2	5.1	67	nw.			2		8 n			0.012	0.3	very cloudy	M. André, Director.
Mans, Normal School	29.83	757.6	30.15	765.7	41.2	5.1		n.			1		k		w.	0.126	3.2	fair	M. Richard, Director
Marseille, Observatory	29.68	753.9	29.95	760.8	50.0	10.0	58	nw.			4		6		wnw.	0.031	0.8		M. Stephan, Director.
Montlouis	24.82	630.5	29.67	753.5	37.0	2.8	69	sw.	16.8	7.5			4	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.2	30.04	763.0	51.1	10.6	63	nw.			4		10	sse.		0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.17	740.8	29.97	761.2	39.6	4.2	65	sw.			2		kn		nw.	0.462	10.2		**M. Hasse, Director.**
Nantes, Observatory	30.06	763.5	30.22	767.6	46.8	8.2	66	wnw.			0–2		7 k; kn		wsw.	0.130	3.3		M. Larocque, Director.
Perpignan, Observatory	30.06	763.4	30.17	766.4	50.5	10.3	61	nw.	9.4	4.2			10		nw.	0.008	0.2		Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.2			15.4	— 9.2		w.			2		5		w.	0.787	20.0	cloudy	**M. Vaussenat, Director.**
Privas, Normal School	29.00	736.7	30.10	764.5	43.7	6.5	51	s.			1		n			0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.09	637.3			24.4	— 4.2	100	wnw.			4		10			0.114	2.9	foggy	M. Allnard.
Rochefort, Naval Obs'y	30.19	766.8	30.22	767.6	49.6	9.8	76	wnw.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.01	762.3	30.23	767.8	48.9	9.4	92	sw.			1		5		nw.	0.08	2.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.97	710.2	30.18	766.6	40.1	4.5		nw			1		5 kn		se.	0.244	6.2	fair	M. Seger, Director.
Rouen, Normal School	30.15	765.7	30.31	769.9	43.9	6.6	85	w.			4		0			0	0	clear	M. Mouillot, Dir.
St. Lô, Normal School			29.97	761.2	45.5	7.5	60	w.			1		0			0	0	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	29.87	758.8	30.04	763.0	44.6	7.0	42	nw.			4				nw.	0.063	1.6		M. Renou, Director.
Toulouse, Observatory	29.50	749.2	30.22	767.7	45.1	7.3	82	nw.			4		10	nw.		0.028	0.7	covered	M. Bailland, Director.
Tours	29.96	761.0	30.14	765.5	46.0	7.8	69	w.			1		5	nw.	wnw.	0.102	2.6	cloudy	M. de Tastes.
Versailles, Observatory	29.54	750.4	30.04	762.9	43.5	6.4	51	nw.			4		5			0	0	cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.11	764.7	30.26	768.5	48.6	9.2	92	nw.	5.8	2.6			10 kn			0.445	11.3	light rain	M. Cartier, Director.
German.																			
Ansbach	28.25	717.5	29.74	755.3	37.8	3.2	63	w.			8		5	w.		0.291	7.4		Prof. Jnedt.
Bamberg	28.80	731.5	29.63	752.6	38.1	3.4	60	w.			6		6 n		w.	0.394	10.0		Prof. Dr. Hoh.
Berlin	28.80	731.5	28.94	735.1	40.3	4.6	82	w.			8		10			0.575	14.6	raining	Meteorological Institute
Breslau	28.68	728.4	29.20	741.6	43.2	6.2	56	wsw.			6		10			0.335	8.5		Royal University Obs'y
Carlsruhe	29.41	747.0	29.88	758.9	41.4	5.2	63	sw.			10		10	sw.		0	0		Albert Senz.
Cassel	28.80	731.5	29.51	749.0	34.5	1.4	100	nw.			7		10	w.		0.488	12.4	rain & snow	Dr. H. Möhl.
Frankfort-on-the-Main	29.33	745.0	29.71	754.5	41.5	5.3	62	w.			4		10			0.146	3.7		Physical Society.
Friedrichshafen	28.47	723.2	29.94	760.4	39.6	4.2	69	sw.			6		4	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.11	739.5	29.21	741.8	34.5	1.4	83	nw.			8		10			0.933	23.7		E. Preller.
Kiel	29.09	738.8	29.10	739.2	34.7	1.5	73	nw.			5		9			0.913	23.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	28.83	732.3	29.25	743.0	41.5	5.3	74	w.			6		9	w.		0.272	0.9	sprinkling	H. Leppig, Asst.
Magdeburg	28.93	734.7	29.11	739.4	40.1	4.5	78	w.			8		10			0.571	14.5	rain & snow	Weather Observatory.
Memel	28.94	735.0	28.98	736.2	31.5	— 0.3	98	ne.			4		10 s						Issermann.
Munich	27.96	710.1	29.80	757.0	40.8	4.9	50	nw.			8		4	w.		0.024	0.6		Central Station.
Neufahrwasser	28.84	732.4	28.85	732.9	39.9	4.4	85	sw.			4		10			0.244	6.2		A. Lothes.
Neustadt, Palatinate	29.24	742.6	29.76	755.9	41.7	5.4	66	wsw.			5		10	sw.		0	0		Dicknether.
Stuttgart	28.86	733.0	29.77	759.2	41.0	5.0	49	w.			8		10			0.028	0.7		Prof. Dr. Schoder.
Wustrow	28.87	733.3	28.89	733.9	36.5	2.5	93	n.			7		10			0.299	7.6		Profs. Brandes & Reimer
Greek.																			
Athens	29.64	752.9	30.03	762.8	55.2	12.9		w.			1.0	1	0			0	0	hazy	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.01	762.3	30.06	763.6	73.4	23.0	70	sw.	19.0	8.5			1			0	0	d. clouds	
Deesa	29.54	750.3	30.02	762.4	80.7	27.1	29	nnw.	8.0	3.6			0			0	0	blue sky	
Bombay	29.98	761.4	30.01	762.3	78.9	26.1	71	nnw.	13.0	5.8			0			0	0	blue sky	
Poona, Yarrowda	28.15	715.0	30.00	761.9	83.8	28.8	40	ne.	5.0	2.2			0			0	0	blue sky	
Belgaum	27.45	697.1	29.97	761.3	80.1	26.7	20	ene.	4.0	1.8			0			0	0	blue sky	
Lahore	29.31	744.4	30.07	763.9	68.8	20.4	61	calm	0	0			10			0	0	overcast	
Roorkee	29.16	740.5	30.08	764.1	68.7	20.4	52	calm	0	0			4			0	0	d. clouds	
Agra	29.50	749.3	30.08	764.0	74.2	23.4	44	ne.					0			0	0	blue sky	
Nagpur	28.96	735.7	30.02	762.5	77.2	25.1	42	s.	3.0	1.3			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.68	728.4	30 07	763.7	69.9	21.1	57	calm	0.9	0.4	......	......	0	......	......	0	0	blue sky......	
Lucknow	29.69	754.1	30.08	764.0	69.3	20.7	54	calm	0	0	......	......	0	......	......	0	0	blue sky......	
Allahabad	29.73	755.1	30.05	763.3	68.8	20.4	62	calm	c	0	......	......	0	......	......	0	0	blue sky......	
Patna	29.88	758.8	30.07	763.7	69.3	20.7	55	calm	3.0	1.3	......	......	4	......	......	0	0	d. clouds......	
Hazaribagh	28.00	711.2	30.06	763.6	68.1	20.1	41	nw.	4.0	1.8	......	......	5	......	......	0	0	d. clouds......	
Cuttack	29.95	760.6	30.03	762.8	77.2	25.1	57	calm	.0	0	......	......	0	......	......	0	0	blue sky......	
Calcutta, Alipore	30.00	762.1	30.01	762.2	70.0	21.1	64	calm	0	0	......	......	0	......	......	0	0	blue sky......	
Dhubri	29.95	760.6	30.07	763.8	67.0	19.4	66	nne.	2.5	1.1	......	......	0	......	......	0	0	blue sky....	
Chittagong	29.96	760.9	30.05	763.3	68.8	20.4	61	calm	2.2	1.0	......	......	0	......	......	0	0	misty......	
Sibsagar	29.74	755.3	30.09	764.3	57.8	14.3	85	ne.	2.0	0.9	......	......	0	......	......	0	0	blue sky......	
Jeypore	28.60	726.4	30.07	763.7	74.9	23.8	39	se.	1.2	0.5	......	......	5	se.	......	0	0	d. clouds......	
Zanzibar	29.78	756.4	29.8c	756.9	85.5	29.7	59	ne.	11.3	5.0	......	......	1	......	......	0	0	d. clouds...	
Bellary	28.50	723.9	......	......	81.0	27.2	26	e.	4	1.8	......	0	0	......	......	0	0	blue sky......	
Trichinopoly	29.75	755.6	......	......	82.5	28.1	42	ne.	0.1	0.02	......	2	3	......	......	0	0	d. clouds....	
ITALIAN.																			
Udine	29.36	745.7	29.78	756.5	43.0	6.1	82	calm	0	0	......	......	10	......	......	0	0	......	Prof. Giovanni Clodig.
Milan	29.25	743.0	29.79	756.7	43.2	6.2	73	sw.	3.8	1.7	......	......	6	wsw.	......	0	0	......	Prof. G.V.Schiapparelli
Padua	29.65	753.1	29.76	756.0	37.0	2.8	67	calm	0	0	......	......	9	......	......	0	0	......	Prof. Dott. Lorenzoni.
Moncalieri	28.86	733.1	29.80	757.0	41.5	5.3	73	se.	2.5	1.1	......	......	6	e.	......	0	0	......	Prof. F. F. Denza.
Genoa	29.56	750.8	29.76	755.8	55.0	12.8	63	se.	4.9	2.2	......	......	10	se.	......	0	0	......	Prof. G. M. Garibaldi.
Pesaro	29.71	754.6	29.76	755.9	54.7	12.6	55	sw.	19.2	8.6	......	......	10	sw.	......	0	0	......	Prof. Luigi Guidi.
Florence	29.57	751.0	29.83	757.7	47.5	8.6	87	s.	......	......	2	......	10	......	......	0	0	......	Prof. Costantino Pittei.
Leghorn	29.68	753.9	29.77	756.1	54.3	12.4	81	wsw.	7.4	3.3	......	......	10	sw.	......	0.240	6.1	......	Prof. P. Monte.
Rome	29.76	756 0	29.94	760.5	52.5	11.4	67	ssw.	8.7	3.9	......	......	10	......	......	0.217	5.5	......	Prof. P. Tacchini.
Lecce	29.72	754 9	29.98	761.5	55.4	13.0	58	wsw.	9.8	4.4	......	......	2	......	......	0	0	......	Prof. C. de Giorgi.
Cosenza	29.19	741 4	30.11	764.8	47.1	8.4	73	wsw.	1.8	0.8	......	......	9	sw.	......	0	0	......	Prof. D. Conti.
Cagliari	29.89	759.2	30.09	764.2	50.3	13.5	53	nw.	......	......	4	......	8	......	......	0	0	......	Prof. A. Pacinotti.
Palermo	29.85	758.2	30.11	764.7	50.5	13.6	57	wsw.	6.3	2.8	......	......	8	wnw.	......	0	0	......	Prof. G. Cacciatore
Syracuse	30.06	763.5	30.11	764.7	52.7	11.5	70	wsw.	3.1	1.4	......	......	4	wsw.	......	0	0	......	Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.49	749.0	30.02	762.5	53.4	11.9	81	sw.	0.7	0.3	......	......	7	wsw.	......	0	0	......	Prof. F. Brioschi.
JAPANESE.																			
Akita	30.17	766.2	30.20	767.1	26.5	− 3.1	76	n.	......	......	4	......	10 k	......	......	0.055	1.4	cloudy......	H. Hattori.
Awomori	30.07	763 8	30.11	764.8	24.6	− 4.1	88	w.	15.6	7.0	......	0	5 s	......	......	0.057	1.4	fair......	K. Ogawa.
Hakodate	30.08	764.0	30.09	764.3	26.0	− 3.3	52	nw.	7.8	3.5	......	0	0	......	......	0	0	clear......	Y. Souma.
Hamamatsu	30.01	762 2	30.11	764.7	43.1	6.2	69	w.	......	......	6	5 cs	0	w.	......	0	0	fair......	Sekigawa & Yamasaki.
Hiroshima, I. M. Obs'y	30.27	768.8	30.28	769.2	43.5	6.4	78	ne.	6.7	2.9	......	0	0	......	......	0	0	clear......	Y. Okamoto.
Kagoshima	30.20	767.0	30.21	767.3	52.9	11.6	91	nw.	......	......	2	......	10 s	......	......	0.008	0.2	overcast......	
Kanazawa	30.19	766.9	30.30	769.7	35.7	2.1	75	n.	0.9	0.4	......	......	10s;ks	......	......	0.019	0.5	overcast......	S. Endo.
Kioto	30.10	764.6	30.28	769.0	42.0	5.6	71	nnw.	3.3	1.4	......	......	10s;ck	......	......	0	0	cloudy......	M. Tojima.
Kochi	30.18	766.7	30.21	767.2	50.6	10.3	66	ne.	10.7	4.7	......	0	1 s	......	nw.	0	0	clear......	K. Kusunose.
Miasaka	30.18	766.6	30.21	767.3	55.1	12.8	87	nnw.	......	......	1	......	10 s	......	w.	0.008	0.2	covered......	K. Masusaki.
Miyako	29.94	760.4	30.05	763.2	27.0	− 2.7	37	wsw.	8.7	3.8	......	0	0	......	......	0	0	clear......	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.02	762.5	30.23	767.8	46.7	8.2	85	ne.	1.2	0.5	......	0	0	......	......	0	0	clear......	
Nemuro	29.81	757.2	29.86	758.4	21.0	− 6.1	49	w.	30.0	13.4	......	0	0	......	......	0	0	clear......	A Shibuya.
Niigata	30.24	768.1	30.28	769.1	34.4	1.3	62	nw.	8.6	3.8	......	......	10 n	......	nw.	......	......	light snow..	Satoo & Tomikawa.
Nobiru	30.10	764.6	30.12	765.0	30.0	− 1.1	69	nw.	10.2	4.6	......	0	0	......	......	0	0	clear......	Yoshino & Midzushina.
Numadzu	30.01	762.2	30.05	763.2	50.5	10.3	65	se.	......	......	2	0	7 s	......	w.	0	0	cloudy......	T. Ohgi.
Osaka	30.27	768.9	30.29	769.3	41.4	5.2	75	ne.	8.9	3.9	......	0	3ks;s	......	......	0	0	clear......	H. Omura.
Sakai	30.30	769.7	30.31	769.9	42.2	5.7	76	ne.	......	......	4	......	9 ks	......	nw.	0	0	cloudy......	Yamawchi & Sakamoto.
Sapporo	29.98	761.5	30.05	763.2	23.0	− 5.0	100	nw.	5.8	2.6	......	......	10 n	......	......	0.035	0.9	snowing......	S. Kimura.
Shimonoseki	30.12	765 0	30.26	768.7	43.8	6.6	86	ne.	......	......	1	0	0	......	......	0	0	clear......	S. Sakano.
Tokei Obs'y, Yeddo	30.01	762 3	30.09	764.3	41.6	5.3	54	n.	17.6	7.9	......	0	1 s	......	......	0	0	clear......	The Staff.
Wakayama	30.21	767.3	30.26	768.7	43.8	6.6	70	n;nne.	12.2	5.5	......	0	0	......	......	0	0	clear......	K. akai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.58	751.3	29 77	756.1	81.4	27.4	61	ese.	14.5	6.5	......	ack;cs	3k;ks	wsw.	se.	0.16	4.1	fair......	The Staff.
MEXICAN.																			
Leon	24.25	615 9	30.05	763.3	46.8	8.2	82	nnw.	0.9	0.4	......	0	3 ks	......	sw.	0	0	clear......	M. Leal & M. Pina.
Mazatlan	29.77	756.2	30.04	763.0	61.0	16.1	71	nnw.	5.3	2.3	......	0	0	......	......	0	0	clear......	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.78	756.3	29.78	756.3	42.6	5.9	......	wnw.	......	......	6	......	......	......	......	0.244	6.2	......	
Groningen	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	0.701	17.8	......	
Helder	29.54	750.4	29.54	750 4	40.6	4.8	......	nw.	......	......	6	......	......	......	......	0.047	1.2	......	
Hellevoetsluis	29.68	753.8	29.68	753 8	48.6	9.2	71	w.	......	......	5	......	......	......	......	0	0	......	
Utrecht	29.60	751.9	29.66	753 3	44.2	6.8	63	w.	......	......	6	......	6	......	......	0	0	cloudy......	H. van der Brink.
Sub-series.																			
Batavia, Java	29.86	758.5	......	......	78.4	25.8	92	nw.	1.0	0.4	......	......	10	......	......	0.098	2.5	......	Lt. J.J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	28.97	735.8	29.03	737.4	30.9	− 0.6	92	s.	27	12	......	......	10	......	......	0.307	7.8	raining......	
Brono	28.93	734.7	28.97	735.7	21.9	− 5.6	87	ne.	......	......	2	......	7	......	......	0.039	1.0	......	
Christiania	29.02	737.2	29.18	741.1	19.2	− 7.1	78	ene.	0	0	......	......	7	......	......	0	0	foggy......	
Gjesvær	28.66	727.9	28.68	728.5	23.4	− 4.8	......	w.	......	......	7	......	7	......	......	0	0	......	
Lodingen	28.83	732.3	28 88	733.5	19.2	− 7.1	72	nw.	......	......	2	......	4	......	......	0	0	......	
PORTUGUESE.																			
Angra, Azores	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	Dr. J. A. Sampaio.
Campo Major	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.48	774.1	30.57	776.4	62.8	17.1	51	e.	3.1	1.4	......	......	1	n.	......	0	0	......	Capt. D. A. de Cunha.
Lisbon, Observatory	30.06	763.5	30.40	772.2	58.1	14.5	86	nnw.	13.0	5.8	......	......	6	......	......	0	0	......	The Staff.
Ponta Delgada, Azores	30.61	777.6	30.69	779.4	63.3	17.4	80	calm	0	0	......	......	4	......	......	0	0	......	
Saint Paul de Loando	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	
St. Vincent, Cape Verd Ids.	30.10	764.6	30.14	765 5	69.8	21.0	72	e.	......	......	6	......	8	......	......	0	0	......	
San Salvador, Congo	28.05	712.5	29.87	758.7	82.4	28.0	67	wsw.	......	......	1	......	8	......	......	0	0	......	
Serra da Estrella	25.43	646.0	30.29	769.3	39.4	4.1	100	wnw.	......	......	5	......	10	......	......	0.669	17.0	foggy......	
RUSSIAN.																			
Akmolinsk	28.69	728.7	29.89	759.1	− 1.8	−18.7	100	se.	7	3	......	0	3 ks	......	......	0	0	......	Major K. Lasarew.
Archangel	28 54	725 0	28.56	725 5	19.4	− 7.0	97	e.	2	1	......	......	10	......	......	0.039	1.0	light snow..	Capt. Ssellwerstow
Ashurada	30.06	763.5	29.97	761.1	47.7	8.7	74	nnw.	4	2	......	0	3 k	......	......	blank	blank	......	
Astrakhan	29.80	750 9	29.72	754.9	32.5	0.3	83	sw.	13	6	......	......	10	......	......	0.028	0.7	h'vy clouds	Capt. Wisganow.
Baku	29.91	759.6	29.86	758.4	41.2	5.1	66	n.	9	4	......	0	3 ks	......	......	0	0	......	
Barnaul	29.61	752.1	30.16	766.1	5.2	−14.9	78	sw.	4	2	......	......	1	......	......	0.012	0.3	......	Meteorological Office.
Bielosersk	28 29	718.5	28.76	730.5	27.7	− 2.4	94	sw.	7	3	......	......	10 s;n	......	......	0.008	0.2	snowing......	
Dorpat	28.69	728.6	28.93	734.9	27.0	− 2.8	70	w.	7	3	......	c	8 ks	......	......	0	0	......	Observatory.
Ekaterinburg	28.59	726.2	29.58	751.4	28.6	− 1.9	70	ssw.	7	3	......	......	9 n	......	......	0	0	......	Meteorological Obs'y.
Elissawetgrad	29.02	737.1	29.48	748.7	36.3	2.4	82	wsw.	9	4	......	......	10 s;n	......	......	0.012	0.3	......	
Kasan	28.87	733.3	29.15	740.4	21.9	− 5.6	100	sse.	18	8	......	......	10	......	......	0	0	......	Observatory.
Kem	28.54	724.9	28.59	726.2	20.5	− 6.4	100	calm	0	0	......	......	10	......	......	0.063	1.6	h'vy clouds..	
Kertch	29.64	752.8	29.66	753.4	40.3	4.6	87	calm	0	0	......	......	10 n	......	......	0	0	......	Lagorio & Sastyre..
Kieff	28.58	726.0	29.22	742.2	37.4	3.0	88	wsw.	22	10	......	......	10 ks	......	......	0.035	0.9	......	Observatory.
Koslov	28.74	729.9	29.25	743.0	26.0	− 3.0	81	wnw.	18	8	......	......	10 s	......	......	blank	blank	......	
Lgov	28.68	728.5	29.28	743.6	31.5	− 0.3	89	sw.	20	9	......	......	10	......	......	0.047	1.2	rain & snow	R. I. Ssaweljew, Engin'r.
Libau	28.90	734 0	28.92	734.6	33.3	0.7	87	ene.	9	4	......	......	6	......	......	0.126	3.2	......	E. Quaas.
Lugan	29.31	744.5	29.52	749.8	35.2	1.8	67	wsw.	34	15	......	......	10	......	......	0	0	......	Meteorological Obs'y
Moscow	28.58	725.8	29.06	738.2	27.7	− 2.4	77	wsw.	7	3	......	0	7 s	......	......	0.146	3.7	......	Meteorological Obs'y
Nertchinsk	27.87	707.9	30.54	775.7	−18.4	−28.0	79	calm	0	0	......	......	0	......	......	0	0	......	

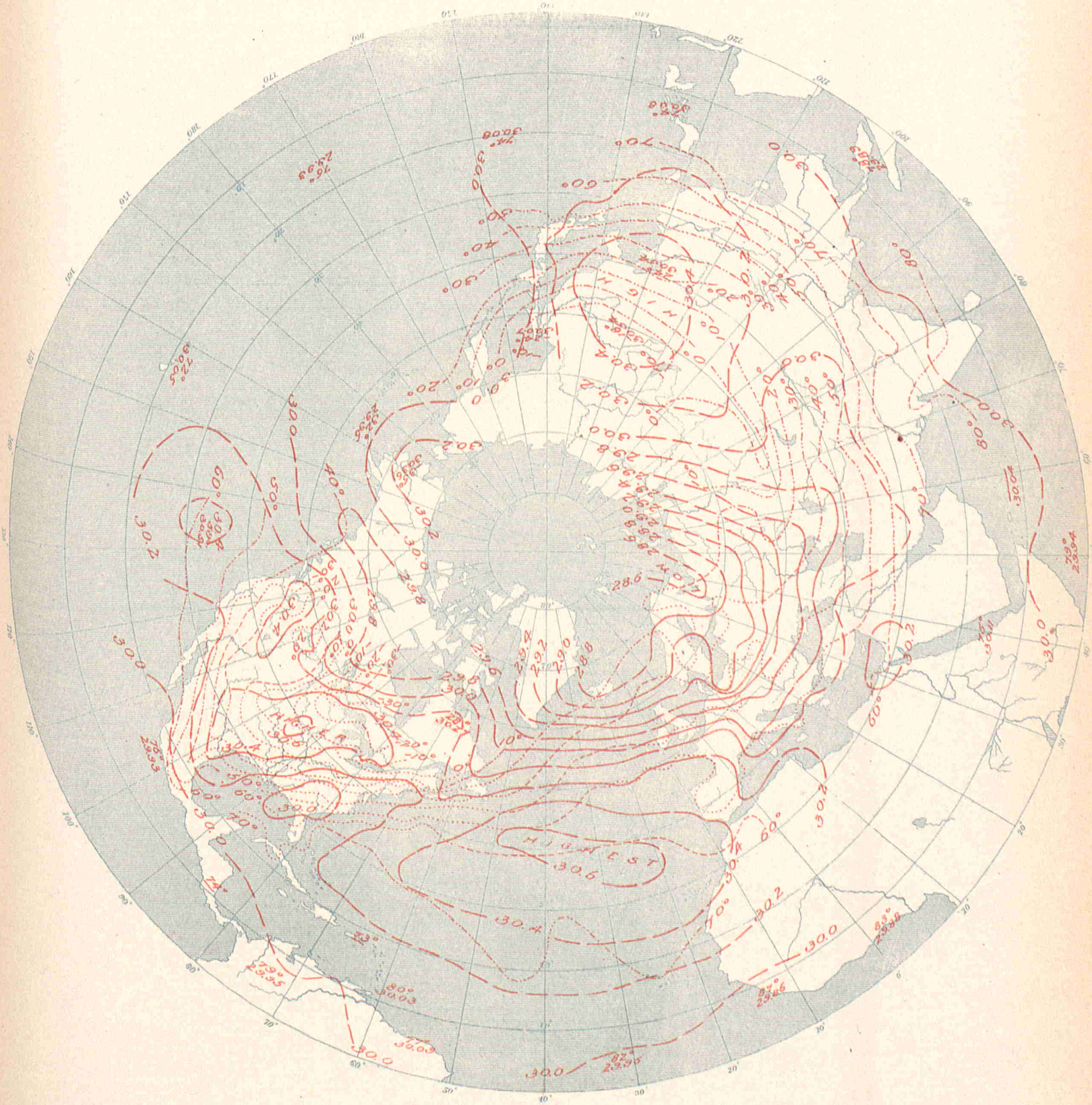
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiev	29.45	747.9	29.52	749.7	39.2	4.0	90	s.	18	8			10 n			0	0	light clouds	Capt. Kurdakow.
Nikolievsk-on-the-Amour	29.98	761.5	30.07	763.7	—24.0	—31.1	80	calm	0	0		0	0						Iwanow.
Pekin, China	30.35	771.0	30.50	774.6	23.9	— 4.5	93	calm	0	0			10 n			0.039	1.0		**Physical Observatory**
Petro-Alexandrovsk	29.42	747.2	29.78	756.5	36.5	2.5	79	sw.	7.8	3.5			10 k						
Petrozavodsk	28.42	721.9	28.61	726.8	29.7	— 1.3	90	w.	9	4			10			0.079	2.0	light clouds	Dr. Bergmann.
Pinsk	28.60	726.4	29.09	738.9	41.2	5.1	73	w.	34	15		5 cs	0			0.071	1.8	light clouds	
Poti	29.97	761.3	30.00	762.1	37.6	3.1	95	e.	4	2			10 n			0.307	7.8		
St. Petersburg	28.77	730.8	28.80	731.4	27.0	— 2.8	87	w.	11	5			10 n			inap.	inap.		Central Physical Obs'y.
Samarkand	27.42	696.5	29.95	760.6	40.5	4.5	90	calm	0	0			10 s						
Semipalatinsk	29.37	745.9	30.10	764.6	— 0.6	—18.1	84	e.	11	5			0			0	0		Major Lasarew
Sevastopol	29.46	748.3	29.68	753.8	46.6	8.1	79	sw.	20	9		9 cs	0			0	0		
Staroi Bykhov	28.39	721.0	28.94	735.1	34.3	1.3	91	s.	13	6			10			0.134	3.4	light snow	
Tashkend, Laboratory	28.19	716.1	29.89	759.2	43.5	6.4	93	nw.	9	4			10 n						Terch, A. M
Tiflis	28.48	723.4	29.94	760.5	38.7	3.7	51	wnw.	31	14		0	7 ks			0	0		Physical Observatory.
Vernoe	27.21	691.2	29.81	757.1	29.8	— 1.2	82	ne.	2	1			10 n						
Viatka	28.32	719.2	28.96	735.6	23.0	— 5.0	99	s.	22	10			10			0.024	0.6		
Vladivostock	30.45	773.3	30.51	775.0	5.0	—15.0	56	n.	9	4		0	0			0	0		
Warsaw	28.67	728.2	29.09	738.8	43.5	6.4	57	w.	34	15			10 k			0.142	3.6	heavy cl'ds	Astronomical Obs'y.
Yeniseisk	29.80	756.8	30.11	764.8	6.8	—14.0	87	w.	4	2			10			0.028	0.7	snowing	M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.52	724.4	29.08	738.6	27.3	— 2.6	72	w.	12	5.4		0	6 s		w.	0.11	2.8	fair	**Prof. S. Fadeieff.**
Spanish.																			
Barcelona, Met. Obs'y	29.96	760.9	30.07	763.7	47.8	8.8	75	n.					9			0	0		B. J. Elin.
Bilbao, Met. Obs'y	30.25	768.4	30.31	769.9	48.9	9.4	92	nw.	2.0	0.9			10			0.390	9.9	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.26	692.4	30.37	771.5	35.2	1.8	93	s.	4.9	2.2			10			0.118	3.0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.98	710.8	30.31	769.9	40.8	4.9	76	se.	7.2	3.2			10			0	0	covered	The Staff.
Murcia, Met. Obs'y	30.02	762.6	30.15	765.9	58.8	14.9	64	wsw.	0.9	0.4		3	2			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.39	746.6	30.31	769.9	49.6	9.8	88	calm	0	0			10			0.339	8.6	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	762.0	30.07	763.8	64.0	17.8	91	ese.	1.8	0.8		0	8			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.02	762.5	30.08	764.0	73.5	23.1	86	ne.	0	0		0	2 ks			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.30	769.7	30.40	772.3	53.1	11.7	76	nw.	3.7	1.7		1	5	nw.	nw.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	29.87?	758.6?	29.96?	760.9?	73.4	23.0	90	sw.	2.7	1.2		3 cs	4 kn	se.	se.	0.079	2.0	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	28.78	731.1	28.82	732.1	16.0	— 8.9	91	n.			6		10			0	0		
Umea	28.90	734.1	28.95	735.4	13.5	—10.3	73	nnw.			2		0			0	0		
Hernosand	29.04	737.6	29.09	738.9	19.8	— 6.8	68	nw.			2		0			0	0		
Stockholm	28.91	734.4	29.09	738.9	22.3	— 5.4	76	n.			2		0			0	0		
Wisby	28.92	734.6	28.98	736.1	32.7	0.4	64	ne.			4		5			0	0		
Sub-series																			
Upsala	28.99	736.3	29.08	738.5	19.6	— 6.9	75	nw.	9.8	4.4			1	w.		0	0		H. H. Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			29.90	759.4	50.5	10.3	62	sw.	27	12.0			4		sw.	0	0		The Observatory.
Valona			30.03	762.7	56.8	13.8		sw.			2		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.26	768.6	57.2	14.0	56	sw.			2		2 k		nw.	0.01	0.3		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.02	762.5	30.11	764.8	35.7	2.1	64	s.	5	2.2			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.71	754.6	30.42	772.7	— 8	—22.2	58	nw.	7	3.1			10 s			0.07	1.8	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.12	638.0	30.24	768.1	18.5	— 7.5	69	sw.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.17	690.1	30.21	767.3	24.0	— 4.4	88	sw.	16	7.2		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	28.60	726.4	29.83	757.7	44.0	6.7	98	se.	6	2.7			10n; fg			0.86	21.8	light rain	S. W. Beall.
Atlantic City, New Jersey	30.04	763.0	30.05	763.3	40.0	4.4	82	e.	4	1.8			10 n		e.	inap.	inap.	light rain	B. A. Blundon.
Augusta, Georgia	29.72	754.9	29.92	760.0	53	11.7	93	se.	3	1.3			10 s		se.	0.07	1.8	cloudy	W. J. Evans.
Baltimore, Maryland	30.04	763.0	30.09	764.3	39	3.9	65	se.	2	0.9			10 n		s.	0.06	1.5	light rain	Geo. W. Feiger.
Barnegat City, New Jersey	30.07	763.8	30.09	764.3	39.5	4.2	90	s.	12	5.4			10 n		sw.	inap.	inap.	light rain	F. L. Johnson.
Bennett, Fort, Dakota	28.60	726.4	30.34	770.6	— 6.3	—21.3	74	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.30	693.4	30.28	769.1	21.0	— 6.1	61	sw.	9	4.0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.19	616.0	30.19	766.8	1.2	—17.2	100	s.	13	5.8			10 s		w.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.15	765.8	30.18	766.6	41.0	5.0	92	s.	8	3.6			10 n		sw.	0.11	2.8	light rain	J. T. Elker.
Boise City, Idaho	27.51	698.7	30.44	773.2	11.5	—11.4	88	w.	1	0.4		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	30.00	762.0	30.17	766.3	33.8	1.0	78	sw.	4	1.8			10ks; s		sw.	inap.	inap.	cloudy	O. B. Cole.
Brownsville, Texas	30.31	769.9	30.37	771.4	43.0	6.1	36	n.	18	8.0			10 s			0	0	cloudy	John McGlone.
Buffalo, New York	29.45	748.0	30.24	768.1	8	—13.3	92	n.	10	4.5			10 n			0.14	3.6	light snow	Wm. Finn.
Buford, Fort, Dakota	27.84	707.1	30.07	763.8	9.5	—12.5	100	sw.	5	2.2		0	8 s			0	0	cloudy	A. Schneider.
Cairo, Illinois	29.95	760.7	30.37	771.4	9.5	—12.5	87	n.	18	8.0			10 s		n.	0.02	0.5	threatening	W. H. Ray.
Canby, Fort, Washington Ter	30.07	763.8	30.27	768.8	37.0	2.8	87	n.	4	1.8		0	6 s			0	0	fair	J. H. Young.
Cape Henry, Virginia	30.02	762.5	30.04	763.0	47.0	8.3	100	s.	10	4.5			10 n			0.18	4.6	light rain	A. K. Alderson
Cape May, New Jersey	30.01	762.5	30.04	763.0	43.0	6.1	96	se.	12	5.4			10 n			0.07	1.8	light rain	W. E. Smith.
Cape Mendocino, California	29.50	749.3	30.20	767.1	44	6.7	100	n.	15	6.7			fg.			0	0	dense fog	A. P. Leavitt.
Cedar Keys, Florida	29.99	761.7	30.01	762.2	55.5	13.1	96	se.	11	4.9			10 s		se.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	29.92	760.0	29.98	761.5	57.5	14.2	93	sw.	10	4.5		0	8 s		sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.02	737.1	29.91	759.7	40.0	4.4	98	e.	10	4.5			10 n		e.	0.57	14.5	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.05	737.9	29.91	759.7	35.0	1.7	79	nw.	16	7.2			10 s		nw.	1.34	34.0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.00	609.6	30.27	768.8	17.8	— 7.9	68	sw.	8	3.6		0	0			0.04	1.0	clear	E. McGovern.
Chicago, Illinois	29.64	752.8	30.38	771.6	4.0	—15.6	72	nw.	7	3.1			10 n			0.23	5.8	light snow	Wm. Norrington.
Chincoteague, Virginia	30.03	762.7	30.05	763.3	49.0	9.4	100	s.	8	3.6			10 n		s.	0.08	2.0	light rain	C. F. Dickens.
Cincinnati, Ohio	29.52	749.8	30.21	767.3	14.7	— 9.6	87	ne.	9	4.0			10 n			0.25	6.3	light snow	L. Dunne.
Cleveland, Ohio	29.44	747.8	30.22	767.6	8.0	—13.3	100	n.	16	7.2			10 n		n.	0.08	2.0	light snow	W. Line.
Columbus, Ohio	29.28	743.7	30.18	766.6	8.2	—13.2	74	nw.	13	5.8			10 n			0.10	2.5	light snow	F. T. Williams.
Concho, Fort, Texas	28.55	725.2	30.57	776.5	14.0	—10.0	91	n.	8	3.6		0	0			0	0	clear	C. E. King.
Custer, Fort, Montana	26.80	680.7	30.18	766.6	15	— 9.4	83	e.	4	1.8		0	2 s			0.16	4.1	clear	W. J. Daily.
Davenport, Iowa	29.82	757.4	30.53	775.4	— 9.5	—23.1	54	n.	8	3.6		1 cs	0	nw.		0.03	0.8	clear	R. R. Martin.
Davis, Fort, Texas	25.42	645.7	30.40	772.1	19.4	— 7.0	70	se.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.65	727.7	30.46	773.7	19.0	— 7.2	100	w.	2	0.9			fg.			inap.	inap.	dense fog	H. S. Blandford.
Deadwood, Dakota	25.28	642.1	30.23	767.8	20.9	— 6.2	76	s.	1	0.4		0	0			0	0	clear	G. Kingsbury.
Delaware Breakwater, Del.	30.06	763.5	30.08	764.0	40.6	4.7	100	se.	12	5.4			10 n		se.	0.05	1.3	light rain	G. A. Martin.
Denver, Colorado	24.76	628.9	30.28	769.1	16.0	— 8.9	73	s.	9	4.0		0	0			0.03	0.8	clear	F. M. Neal.
Des Moines, Iowa	29.63	752.6	30.60	777.2	—14.5	—25.8	58	n.	3	1.3		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.57	751.1	30.33	770.4	4.0	—15.6	72	nw.	9	4.0			10 s			0.15	3.8	cloudy	N. B. Conger.
Dodge City, Kansas	27.75	704.8	30.50	774.7	— 6	—21.1	82	w.	4	1.8		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.78	756.4	30.55	776.0	—10.8	—23.8	42	nw.	3	1.3		0	0			0.20	5.1	clear	J. Harvey Smith
Duluth, Minnesota	29.71	754.6	30.52	775.2	—24.0	—31.1	100	w.	1	0.4		0	0			0	0	clear	E. R. Brace.
Eastport, Maine	30.07	763.8	30.14	765.5	36.5	2.5	80	sw.	4	1.8		5 cs	5 s	w.	w.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.62	701.5	30.55	776.0	1.0	—17.2	88	calm	0	0		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.53	673.8	30.41	772.4	24.8	— 4.0	76	calm	0	0		0	0			0.01	0.3	clear	J. O'Dowd.
Erie, Pennsylvania	29.47	748.5	30.24	768.1	6.3	—14.3	87	ne.	11	4.9			10 n			0.20	5.1	light snow	C. A. Shaw.
Escanaba, Michigan	29.77	756.1	30.49	774.4	—15.5	—26.4	65	nw.	4	1.8		0	0			0.02	0.5	clear	L. M. Pindell.
Fort Smith, Arkansas	30.05	763.3	30.55	776.0	6.0	—14.4	76	n.	16	7.2		0	0			0	0	clear	J. B. Campbell.
Galveston, Texas	30.24	768.1	30.28	769.1	31.5	— 0.3	45	n.	30	13.4		0	8 s		n.	1.12	28.4	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.69	754.1	30.40	772.1	— 6.5	—21.4	76	n.	8	3.6		0	0			0.02	0.5	clear	Joseph E. Mueller
Grant, Fort, Arizona	25.35	643.9	30.25	768.3	26.2	— 3.2	76	n.	6	2.7		0	0			0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.05	763.3	30.06	763.5	63.0	17.2	77	se.	22	9.8	.....	4 cs	4 s	se.	se.	0.05	1.3	cloudy	R. M. Crawford.
Helena, Montana	25.97	659.6	30.35	770.9	22	— 5.6	73	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	S. W. Morrison.
Huron, Dakota	28.94	735.1	30.48	774.2	—15.6	—26.4	71	s.	9	4.0	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.40	746.7	30.24	768.1	11.3	—11.5	72	n.	11	4.9	.....	0	9 s	.....	n.	0.01	0.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.35	770.9	30.38	771.6	30.0	— 1.1	56	n.	41	18.3	.....	0	5 s	.....	.....	0.04	1.0	fair	I. A. Reed.
Jacksonville Florida	29.97	761.2	30.02	762.5	61.0	16.1	87	s.	4	1.8	.....	2 cs	7 s	.....	sw.	0	0	cloudy	J. W. Smith
Keokuk, Iowa	29.85	758.2	30.55	776.0	— 6.8	—21.6	69	nw.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	72	22.2	84	se.	12	5.4	.....	0	1 k	.....	se.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.06	763.5	30.08	764.0	45.7	7.6	93	se.	6	2.7	.....	.....	10 s	.....	se.	0.04	1.0	cloudy	Wesley Blake.
Knoxville, Tennessee	28.78	731.0	29.86	758.4	35.2	1.8	100	ne.	8	3.6	.....	.....	10 n	.....	.....	0.57	14.5	light rain	J. A. Cody.
La Crosse, Wisconsin	29.72	754.9	30.56	776.2	—15	—26.1	100	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.68	753.0	30.64	778.2	— 5	—20.6	87	nw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	T. S. Outram.
Lewiston, Idaho	29.60	751.8	30.47	773.9	21.4	— 5.9	78	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. E. Butler.
Little Rock, Arkansas	30.05	763.3	30.38	771.6	16.0	— 8.9	83	nw.	13	5.8	.....	0	0	.....	.....	0.13	3.3	clear	W. U. Simons.
Los Angeles, California	29.78	756.4	30.18	766.6	51.2	10.7	31	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	T. S. Collins
Louisville, Kentucky	29.58	751.3	30.17	766.3	15.0	— 9.4	91	n.	16	7.2	.....	.....	10 n	.....	.....	0.02	0.5	heavy snow	L. M. Dey.
Lynchburg, Virginia	29.30	744.2	30.02	762.5	36.0	2.2	69	calm	0	0	.....	.....	10 n	.....	.....	0.02	0.5	light rain	Jno. Healy.
Mackinaw City, Michigan	29.79	756.7	30.49	774.4	—15.8	—26.6	100	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.06	763.5	30.07	763.8	57.0	13.9	95	s	25	11.2	.....	.....	10 n	.....	s.	0.10	2.5	light rain	William Daly.
Maginnis, Fort, Montana	25.56	649.2	30.33	770.4	24.5	— 4.2	53	nw.	24	10.7	.....	10 k	0	w.	.....	0.02	0.5	cloudy	F. Burke.
Marquette, Michigan	29.72	754.9	30.50	774.7	—15.0	—26.1	65	w	8	3.6	.....	0	0	.....	.....	0.01	0.3	clear	J. Gilligan.
Memphis, Tennessee	29.91	759.7	30.27	768.8	18.5	— 7.5	87	nw.	28	12.5	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.65	753.1	30.45	773.4	—12.5	—24.7	81	n.	13	5.8	.....	0	0	.....	.....	0.14	3.6	clear	S. W. Rhode.
Mobile, Alabama	29.96	761.0	30.00	762.0	41	5.0	76	n.	19	8.5	.....	.....	10 s	.....	n.	2.83	71.9	cloudy	H. U. Jones.
Montgomery, Alabama	29.73	755.1	29.97	761.2	41.5	5.3	92	nw.	16	7.2	.....	.....	10ks;s	.....	nw.	0.83	21.1	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.31	744.5	30.42	772.7	—36	—37.8	100	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.60	599.4	30.24	768.1	21.1	— 6.1	86	w.	42	18.8	.....	.....	10n;fg	.....	w.	0.02	0.5	light snow	Edwd. A. Beals.
Nashville, Tennessee	29.57	751.1	30.18	766.6	19.0	— 7.2	87	nw.	19	8.5	.....	.....	10 n	.....	nw.	1.13	28.7	light snow	L. N. Jesunofsky.
New Haven, Connecticut	30.02	762.5	30.14	765.5	32.8	0.4	90	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.16	766.1	30.20	767.1	37.0	2.8	82	w.	2	0.9	.....	.....	10 ks	.....	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.07	763.8	42.0	5.6	74	n.	22	9.8	.....	.....	10 ks	.....	n.	1.42	36.1	cloudy	M. Herman.
New York, New York	29.91	760.5	30.13	765.3	38.1	3.4	89	calm	0	0	.....	.....	10n;fg	.....	.....	inap.	inap.	light rain	H. J. Penrod.
Norfolk, Virginia	30.05	763.3	30.08	764.0	49.1	9.5	93	se	4	1.8	.....	.....	10n;fg	.....	.....	0.29	7.4	light rain	Wm. Davis.
North Platte, Nebraska	27.28	692.9	30.40	772.1	— 2.7	—19.3	98	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington Ter	30.38	771.6	30.42	772.7	34.0	1.1	78	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Dascomb
Omaha, Nebraska	29.34	745.2	30.61	777.5	—12.2	—24.6	65	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	29.88	758.9	30.23	767.8	7.2	—13.8	95	ne.	15	6.7	.....	.....	10 n	.....	.....	0.21	5.3	light snow	J. G. Linsley.
Palestine, Texas	29.92	760.0	30.50	774.7	13.9	—10.1	63	nw.	20	8.9	.....	0	0	.....	.....	0.08	2.0	clear	P. T. Jenkins.
Pensacola, Florida	29.90	759.4	29.93	760.2	54.2	12.3	93	nw.	9	4.0	.....	.....	10 s	.....	nw.	0.75	19.0	cloudy	M. McGauran.
Philadelphia, Pa.	30.01	762.2	30.12	765.0	39	3.9	82	e.	4	1.8	.....	.....	10n;fg	.....	.....	0.01	0.3	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.61	447.3	30.31	769.9	2.0	—16.7	66	ne.	21	9.4	.....	0	0	.....	.....	0.01	0.3	clear	H. Hall.
Pittsburg, Pennsylvania	29.24	742.7	30.09	764.3	19.0	— 7.2	84	nw.	8	3.6	.....	.....	10 n	.....	w.	0.12	3.0	light snow	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. A. Garden.
Port Huron, Michigan	29.54	750.3	30.27	768.8	3.0	—16.1	79	n.	16	7.2	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	M. H. Perry
Portland, Maine	30.06	763.5	30.11	764.8	30.0	2.2	69	sw.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.27	768.8	30.34	770.6	29.4	— 1.4	76	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.93	633.2	30.31	769.9	22.0	— 5.6	82	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	30.17	766.3	30.20	767.1	36.7	2.6	88	s.	6	2.7	.....	1 cs	9s;hz	w.	w.	inap.	inap.	cloudy	C. N. Kittobel.
Red Bluff, California	29.87	758.7	30.24	768.1	41	5.0	92	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.26	768.6	30.52	775.2	43.2	6.2	35	nw.	16	7.2	.....	0	4 s	.....	nw.	0	0	fair	L. G. Schultz.
Rochester, N. Y.	29.51	749.5	30.22	767.6	9	—12.8	87	ne.	8	3.6	.....	.....	10 n	.....	.....	0.19	4.8	light snow	E. W. McGann.
Roseburg, Oregon	29.76	755.9	30.33	770.4	29	— 1.7	92	e.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. Naury.
Sacramento, California	30.14	765.5	30.22	767.6	38.5	3.6	89	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.82	757.4	30.48	774.2	2.2	—16.6	79	nw.	19	8.5	.....	.....	10 n	.....	.....	inap.	inap.	light snow	J. H. Weber.
St. Michael, Fort, Alaska	30.32	770.1	30.36	771.1	—35	—37.2	100	calm	0	0	.....	0	0	.....	.....	inap.	inap	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.62	752.3	30.56	776.2	—23.0	—30.6	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.15	740.4	30.13	765.3	—16	—26.7	100	s	30	13.4	.....	.....	10 s	.....	.....	0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.88	657.3	30.45	773.4	16.5	— 8.6	54	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.08	764.0	30.15	765.8	48.5	9.2	28	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.54	750.3	30.26	768.6	6	—14.4	76	n.	23	10.3	.....	.....	10 n	.....	.....	0.04	1.0	light snow	B. F. Hough.
Sandy Hook, New Jersey	30.09	764.3	30.12	765.0	38.4	3.6	89	s.	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy	V. P. Chappel.
Sanford, Florida	29.97	761.2	30.02	762.5	63.5	17.5	84	se.	9	4.0	.....	0	3 s	.....	se.	0	0	clear	J. B. Marbury
San Francisco, California	30.15	765.8	30.22	767.6	46.8	8.2	93	ne.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	N. Gorom.
Savannah, Georgia	29.88	758.9	29.98	761.5	59	15.0	90	sw.	16	7.2	.....	.....	10 n	.....	sw.	0.01	0.3	light rain	R. M. Geddings.
Shaw, Fort, Montana	26.44	671.6	30.30	769.0	37	2.8	56	sw.	27	12.1	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.16	766.1	30.41	772.4	18.1	— 7.7	73	nw.	14	6.3	.....	.....	10 s	.....	nw.	0.87	22.1	cloudy	E. N. Meekins.
Sitka, Alaska	29.69	754.1	29.76	755.9	40.2	4.6	69	e	33	14.8	.....	.....	10 ks	.....	e.	0.19	4.8	cloudy	F. W. Fickett.
Smithville North Carolina	29.96	761.0	30.00	762.0	56.3	13.5	95	s.	21	9.4	.....	1 c	5 s	.....	sw.	0.16	4.1	fair	D. Parker.
Spokane Falls, Wash. Ter.	28.45	722.6	30.59	777.0	26	— 3.3	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.72	754.9	30.45	773.4	0.0	—17.8	83	n.	12	5.4	.....	3 ck	0	n.	.....	0.02	0.5	clear	T. B. Jennings.
Stockton, Fort, Texas	27.35	694.7	30.49	774.4	20.0	— 6.7	73	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.25	768.3	.....	.....	36.3	2.4	95	e.	13	5.8	.....	.....	10 s	.....	se.	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.50	698.5	30.34	770.6	28.5	— 1.9	74	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.55	750.6	30.29	769.4	4	—15.6	77	n.	1	0.4	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	A. Buell.
Unalashka, Alaska	29.94	760.5	29.96	761.0	32	0.0	78	se.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	Samuel Applegate.
Vicksburg, Mississippi	29.96	761.0	30.23	767.8	29.0	— 1.7	77	nw.	18	8.0	.....	.....	10 s	.....	n.	2.36	59.9	cloudy	C. Dill.
Washington, D. C.	29.98	761.5	30.10	764.5	36.1	2.3	88	se.	1	0.4	.....	.....	10 n	.....	s	0.08	2.0	light rain	T. B. Harrison.
West Las Animas, Colorado	26.23	666.2	30.36	771.1	— 3	—19.4	100	w.	4	1.8	.....	0	8 s	.....	.....	0.03	0.8	cloudy	F. H. Brandenburg.
Wilmington, N. Carolina	29.98	761.5	30.04	763.0	56.5	13.6	94	s.	10	4.5	.....	4 c;ck	3 s	w.	.....	0.20	5.1	fair	L. H. Albrecht.
Yankton, Dakota	29.15	740.4	30.57	776.5	—12.6	—24.8	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	30.04	763.0	30.19	766.8	46.0	7.8	42	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.82	757.4	29.84	757.9	21.9	— 5.6	92	ne.	13	5.8	.....	0	7 n	.....	.....	0	0	fair	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	77	25.0	.....	ne.	.....	.....	4	0	8 ks	.....	ne.	0	0	cloudy	W. H. Jackson.
Bogota, U. S. C.	21.99	558.6	.....	.....	49.1	9.5	93	calm	0	0	.....	0	0	.....	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	30.11	764.8	30.27	768.8	—28	—33.3	100	sw.	11	4.9	.....	10 c	0	sw.	.....	0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.07	763.8	70.8	21.6	81	n.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.09	764.3	30.09	764.3	77	25.0	91	e.	.....	.....	3	.....	8 ps	e.	e.	0.570	14.5	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.95	760.7	79	26.1	80	calm	.....	.....	0	.....	2 k	.....	calm	0	0	clear	Francisco J. Olsnero.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	92	ne.	.....	.....	2	.....	10 ks	.....	.....	0.04	1.0	cloudy	Earl Flint.
York Factory, B. A.	29.69	754.1	29.76	755.9	—31.0	—35.0	.....	w.	20	8.9	.....	3 k	1 s	w.	w.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.90	759.4	29.91	759.6	77.0	25.0	90	n.	10.3	4.6	.....	0	4 k	.....	n.	.....	.....	fair	P. Fasiani.
Naos, Bay of Panama	29.86	758.4	29.93	760.1	74.8	23.8	86	nw.	.....	.....	4	0	1 k	.....	n.	.....	.....	clear	Antonio Fabra.

Vessels with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 42° 14′. W. 47° 05′ †	30.64	778.2				ne.			2		0			0	0	sm'h		clear.
S. S. Alleghany, Boston Harbor, Mass †	30.19	766.8	38	3.3		ssw.			2		10		sw.	0	0			cloudy.
Schr. Anna A. Holton, N. 36° 35′, W. 74° 20′			70	21.1		s.			5		10		s.	8 h'r	8 h'r	mod	s.	cloudy.
S. S. Alps, N. 31° 37′, W. 69° 07′			71	21.7		sse.			3		6		sse	rain	rain	short		
S. S. British Prince, N. 46° 40′, W. 48° 11′			33	0.6		sw.			5		4		sw.					rain & fog.
S. S. City of Augusta, Savannah, Ga			59	15.0		nne.			6		10		ne					raining.
S. S. Canada, (Br) North Foreland, Eng †	29.85	758.2	45	7.2		nw.			7		4		nw.	12 h'r	12 h'r			fair.
S. S. Canada, (Fr) N. 49° 44′, W. 19° 00′			48.2	9		w.			4	c		w.		0	0	h'vy	w.	clear.
S. S. Denmark, N. 40° 48′, W. 67° 46′ †	30.31	769.9	45	7.2	92	s.			4		7		ssw.	shr's	shr's	sll't	sw.	fair.
S. S. Daniel Steinmann, N. 45° 20′, W. 57° 49′ †	30.30	769.6	42	5.6		ssw.			3		10			0	0	mod.	wsw.	
S. S. France, N. 40° 40′, W. 68° 25′	30.26	768.5				ssw.			3		2		ssw.	0	0	sm'h	ssw.	clear.
S. S. Gen. Werder, N. 47° 25′, W. 37° 34′						w.			6		5		w.	4 h'r	4 h'r	cross	w.	fair
Bg. Gipsey Queen, Vineyard Sound, Mass *†	30.20	767.1				ssw.			5				sse.	0	0		sw.	overcast.
S. S. Iowa, N. 50° 35′, W 13° 34′ †	30.16	766.1	49	9.4		w.			4		6		w.	2 h'r	2 h'r	long	w.	fair.
S. S. Llandaff City, N. 43° 41′, W. 56° 12′*†	30.35	770.9	48	8.9		ssw.			5		3			0	0	sm'h		clear.
Bk. Matthias, N. 37° 50′, W. 72° 21′*†	30.06	763.5	51.0	10.6		s.			3		8		ssw.	0	0	3	sw.	fair.
S. S. New York, N. 31° 12′, W. 79° 00′ *†	30.06	763.5	72	22.2		s.			6		10		s.			h'vy	s.	cloudy.
S. S. Neckar, N. 53° 48′, E. 4° 54′	29.39	746.5	40.5	4.7	78	nw.			6–7		8		nw.	rain	rain	h'vy	wnw.	cloudy.
S. S. Nova Scotian, N 38° 34′ W. 68° 34′			57	13.9		sse.			3		8		s.			sm'h		cloudy
S. S. Nurnberg, N. 38° 43′ W. 70° 23′	30.23	767.8	51.8	11.0		s.			4		9		s.	4 h'r	4 h'r	sm'h	w.	cloudy.
S. S. Pavonia, N. 48° 48′, W. 31° 01′	30.37	771.4	50	10.0	78	wsw.			6		5		wsw.	2 h'r	2 h'r	mod.	w.	fair.
S. S. Picqua, Boston, Mass *†	30.20	767.1	46?	7.8?	92	e.			2				e.	rain	rain			raining.
S. S. Rhein, N. 42° 07′, W. 63° 12′						sw.			6		8		w.	4 h'r	4 h'r	mod	w.	cloudy.
S. S. Romano, New York Harbor, N. Y	30.19	766.8	36	2.2		n.			3		10			16 h'r	16 h'r			dull.
Bk. Rosina, N. 36° 36′, W. 74° 07′	30.15	765.8	65	18.3		s.			4		9		s.	0	0	mod.	s.	cloudy
Bgt. Sunlight, N. 27° 40′, W. 72° 04′†	30.22	767.6				se.			4		7		sse.	8 h'r	8 h'r	mod.	se.	raining.
S. S. Thingvalla, N. 46° 15′, W. 49° 16′ †	30.40	772.1	42.8	6		sw.			3		0			0	0	long	sw.	clear.
S. S. Valencia, Curacao, W.I †	30.04	763.0	78	25.6	82	e.			3		3		e.	0	0			fair.
S. S. Westphalia, New York, N. Y	30.15	765.8	32	0.0	100	ne.			2		10			½ h'r	½ h'r			misty.
S. S. Zaandam, N. 43° 11′, W. 54° 31′			52.5	11.4	81	sw.			4		1		wsw.	c	0	sm'h		fair.
S. S. Andes, Port Morant, Jamaica, W. I. *†	30.17	766.3	80	26.7		ne.			3		4		ne.	12 h'r	12 h'r			
Bk. Ariadne, New York, N. Y.	30.16	766.1	34	1.1		s.			1		9		s.	0	0			cloudy.
Schr. Annie R. Lewis, Cienfuegos, Cuba. W.I†	30.17	766.3	72	22.2		calm			0		0			0	0			clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.07	763.8				calm			0		5		calm	0	0	r'gh	ne.	fair.
Bk. Aureola, N 18° 40′, W. 59° 48′. †	30.15	765.8	88?	31.1?		ene.			6		5		ene.	1 h'r	1 h'r	h'vy	ene.	squally.
U. S. S. Alliance, St. Nicholas, Hayti, W I	30.10	764.5	75	23.9	77	se.			2		0			0	0	sm'h		clear.
S. S. British Princess, N. 53° 20′ W. 4° 44′†	29.83	757.7	42	5.6		wnw.			6	6 ck		w.		0	0	r'gh	w.	fair.
S. S. Chalmette, New York City, N. Y†	30.12	765.0	35	1.7		nne.			6		10		ne.	0	0			cloudy.
S. S. Donau, N. 49° 37′, W. 6° 37′	30.20	767.1	52.7	11.5		nw.			5		4		nw.	4 h'r	4 h'r	long	wnw.	cloudy.
S. S. England, off Liverpool bar, Eng	29.83	757.7				nw.			7		0					h'vy	nw.	gale.
Schr. Ellen Crusoe, N. 34° 20′ W. 72° 20′ *†	30.30	769.6				sse.							sw.	0	0	cross		fair.
Bg. George, N. 19° 37′, W. 67° 58′ *†	30.16	766.1				ese.			5		2		se.	light	light	r'gh	ese.	squally.
S. S. Grecian, Havre, Fr nce	30.00	762.0	46	7.8	60	nw.			4		2		nw.	3 h'r	3 h'r			clear.
S. S. Holland, N. 50° 01′ W. 17° 23′*	30.21	767.3	40	4.4		wsw.			6		5		wsw.	0	0	r'gh	w.	fair.
Bg. John Welsh, jr., Mobile, Ala						nnw.			6		10		n.					cloudy.
S. S. Lone Star, N. 38° 14′, W. 74° 28′*†	30.08	764.0	49	9.4		sse.			3		10		s.	2 h'r	2 h'r	mod.	s.	drizzling.
S. S. Muriel, St. Lucia, W. I	30.10	764.5	78	25.6		ene.			3		0			0	0	sm'h		clear.
S. S. Ontario, N. 49° 01′, W. 37° 54′			42	5.6		wsw.			6		6		wsw.	2 h'r	2 h'r		wsw.	squally.
S. S. Orinoco, New York City			34	1.1		nw.			2		10			½ h'r	½ h'r			raining.
Bk. Saga, N. 29° 49′, W. 69° 45′ *†	30.29	769.4	73	22.8		var.			5		7		var.	0	0	mod.	n.	fair.
S. Storm King, N. 49° 26′, W. 12° 52′*†	30.25	768.3				nw.			5		4		nw.	3 h'r	3 h'r	high	wnw.	fair.
S. S. Salerno, N. 49° 20′, W. 12° 25′†	30.25	768.3	46	7.8		w.			5		5		w.	0	0	hv'y	w.	squally.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.15	765.8	75	23.9	77	ese.			1		2		ese.	0	0			clear.
U. S. S. Tennessee, Aspinwall, U. S. C	29.90	759.4	78	25.6	82	n.			6		5		ne.	0.04	1.0	grn'd	n.	fair.
U. S. S. Vandalia, N. 11° 25′, W. 65° 46′	30.00	762.0	77	25.0	77	ene.			4		0							clear.
S. S. Venetian, N. 50° 13′, W. 20° 26′ *	30.16	766.1	48	8.9		wsw.			5		2		wsw.	1 h'r	1 h'r	high	nw.	clear.
S. S. Westernland, Antwerp, Belgium	29.73	755.1	49	9.4		sw.			9		5		sw.	7 h'r	7 h'r			fair.
S. S. Zeeland, N. 49° 02′, W. 22° 04′*†	30.20	767.1	54	12.2		w.			6		8		w.	0	0	hv'y	wsw.	dull.
S. S. City of Berlin, N. 47° 28′, W. 45° 10′	30.41	772.4	37	2.8		wsw.			4							sm'h		cloudy.
S. Oreola, N. 2° 44′, W. 24° 11′ *	29.96	761.0				var.			2		8?		se.	8 h'r	8 h'r	sm'h		clear?
U. S. Navy Yard, Portsmouth, N. H*	30.17	766.3	31	— 0.6	89	sw.	9	4.0			10		sw.	0	c			cloudy.
U. S. S. Kearsarge, Leghorn, Italy	29.75	755.6	56	13.3	81	ene.			4		10							cloudy.
U. S. S. Lancaster, Leghorn, Italy			58	14.4	100	ssw.			5–6		10		ssw.	mod.	mod.	long	s.	cloudy
U. S. S. New Hampshire, Newport, R. I	30.19	766.8	37	2.8	81	s.			2		10					sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	29.77	756.1	54	12.2	93	wsw.			3		10		w.			sm'h		raining.
U. S. S. Shenandoah, St. Vincent, Cape Verd Ids			70	21.1	85	ne.			5		10		ne.			mod.	n.	cloudy.
U. S. S. Trenton, Marseilles, France	29.95	760.7	51	10.6	72	nnw.			5		2		n.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.19	766.8	58	14.4	70	wsw.			3		5		wsw.					d. clouds.
H. M. S. Alecto, N. 5° 47, W. 11° 39′	29.89	759.2	83	28.3		sw.			1							2	sw.	d. clouds.
H. M. S. Comus, N. 24° 25′, W. 28° 00′	30.37	771.4	68	20.0	79	ne.			5		4					5	nne.	showery.
H. M. Dockyard, Bermuda, Atlantic	30.41	772.4	64	17.8	89	e.			4		4		ene.					d. clouds.
H. M. S. Minotaur, Palma, Majorca, Spain	30.09	764.3	57	13.9	69	sw.			2		8		nnw.			1	ssw.	d. clouds.
H. M. S. Tyne, N. 12° 57′, W. 23° 28′	30.05	763.3	74	23.3	72	nne.			6		3		nne.			5	nne.	misty
H. M. S. Woodlark, N. 32° 30′, E 29° 50′	30.24	768.1	60	15.6	60	w.			2		8		wsw.			4	nnw.	showery.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.88	758.9	83.3	28.5	78	ssw.			4		0			0	0	2	sw.	
S. S. British Crown, N. 50° 38′, W. 34° 38′†	30.22	767.6	49	9.4		wsw.			6		8		wsw.	3 h'r	3 h'r	high	wsw.	
S. S. Ohio, (Am) Philadelphia, Pa *†	30.18	766.6	33	0.6	89	n.			1		10			10 h'r	10 h'r			overcast.
S. S. Pennsylvania, N. 39° 48′, W. 71° 04′†	30.26	768.6	49	9.4	93	sse.			4		3		se.	0	0	mod.	se.	clear.
S. S. Prussian, N. 52° 24′ W. 32° 43′	30.12	765.0	44	6.7		wsw.			5		5?		w.	2 h'r	2 h'r	cross	w.	clear.?
S. S. Scandinavian, Portland, Maine	30.16	766.1	31	— 0.6		wsw.			3		10			0	0			overcast.
S. S. Sardinian, N. 52° 14′, W. 34° 51′	30.05	763.3	41	5.0		wsw.			6		9		w.	0	0	r'gh.	w.	cloudy.
S. S. Alisa, N. 35° 40′, W 73° 40′			65.5	18.6	94	s.			7		8		s.	0	0	h'vy	s.	cloudy.
S. S. Devonia, N. 45° 04′, W. 49° 45′†	30.63	778.0	38	3.3		sw.			3		2		sw.	1 h'r	1 h'r	sm'h		clear.
S. S. Carroll, N. 43° 18′, W. 66° 24′*†	30.27	768.8				sw.			3		3		sw.	0	0	short	sw.	fair.
S. S. Scythia, N. 50° 57′, W. 15° 22′	30.18	766.6	50	10.0	79	w.			4		5?		wnw.	0	0	h'vy	w.	clear.?
S. S. Wisconsin. N 42° 25′, W. 62° 18′	30.36	771.1	48	8.9		sw.			3		0			0	0	sm'h		clear.
S. S. Bohemia, Hamburg, Germany						wnw.			5–8		10		wsw.	3 h'r	3 h'r			overcast.
S. S. Frisia, N. 49° 36′, W. 28° 37′	30.35	770.9	54	12.2		w.			6		3			0	0	mod.	nw.	fair.
S. S. Archimedes, (Br) N. 51° 22′, W. 7° 42′	30.01	762.2				w.			5		1		calm	1 h'r	1 h'r	sm'h		fine.
S. S. Hevelius, Liverpool, Eng*†	29.80	756.9	48	8.9		nw.			6		3		nw.	4 h'r	4 h'r			fair.
S. S. Teniers, N. 6° 50′, W. 29° 17′	30.01	762.2	78.9	26.1	93	nne.			5	cs	8 s	sse.		0	0	long	nne.	d. clouds.
S. S. Olbers, N. 44° 17′, W. 52° 46′			40	4.4	86	sse.			4		5?							clear.?
S. S. Archimede, (It) Palermo, Sicily			70	21.1		w.			3		6		w.	0	0			cloudy.
S. S Texas, N. 25° 57′, W. 78° 00′*†	30.15	765.8	73	22.8	85	s.			2		0			0	0	sm'h		clear.
S. S. Erin, London, Eng	29.89	759.2	49	9.4		wnw.			6		6		wnw.	10 h'r	10 h'r			fair.
S. S. Salier, N. 40° 34′. W. 69° 22′*	30.23	767.8				sse.			5		8		se.	1 h'r	1 h'r	light	s.	cloudy.
S. S. Strassburg, off Flushing, Netherlands	29.74	755.4	43.5	6.4	56	wnw.			7		3		wnw.			7	wnw.	fair.
S. S. Rhynland, N. 47° 41′, W. 44° 19′			43	6.1	75	ssw.			5		10		w.	snow	snow	sm'h		cloudy.
S.S. Waesland, New York, N. Y	30.14	765.5	39	3.9		calm			0		10							rainy.
S. S. P. Caland, N. 49° 36′, W. 24° 44′			50.0	10.0	72	w.			3–4		6		w.			6–7	n.	fair.
S. S. State of Nevada, Glasgow, Scotland*†	29.54	750.3	38	3.3		ssw.			4		10		sw.	rain	rain			rain & snow
S. S. Saxon, N. 41° 15′, W. 71° 20′ †	30.12	765.0	43	6.1		s.			2		10							rainy.
S. S. Celtic, Liverpool, Eng.			45	7.2		nw.			8		8		nnw.	4 h'r	4 h'r			gale.
S. S. Rialto, N. 40° 56′, W. 64° 18′ †	30.35	770.9	62	16.7		sse.			5		5?		se.	2 h'r	2 h'r	mod	s.	cloudy.?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity Miles p. hr.	Velocity Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No 1—North Atlantic.—Continued.																		
Bg. Alcira, N. 18° 04′, W. 67° 41′	30.11	764.8	78	25.6	.....	e.	.....	.....	4	.....	1	.....	se.	0	0	cross	se.	hazy.
S. S. Antonio Lopez, Cadiz, Spain	30.42	772.7	51.5	10.8	79	nw.	.....	.....	1	.....	6	.....	.....	0	0	.....	.....	fair
Schr. Adda Doane, Savannah, Ga	.....	.....	.....	.....	.....	s.	.....	.....	2	.....	10	.....	ne.	0	0	.....	.....	cloudy.
Bgt. Achsah, Clementsport, N. S†	30.15	765.8	34	1.1	.....	sw.	.....	.....	2	.....	7	.....	sw.	0	0	.....	.....	fair.
Bk. Bayonnaise, N. 35° 40′ W. 41° 00′	.....	.....	65.3	18.5	.....	s.	.....	.....	2	.....	6	.....	s.	0	0	sm'h	s.	fair.
Bk. Chas. Stewart, N. 29° 00′, W. 36° 20′	.....	.....	71	21.7	.....	e.	.....	.....	6	.....	5	.....	e.	light	light	r'gh	ene.	fair.
Schr. C. R. Flint, N. 31° 52′, W. 62° 22′	.....	.....	67	19.4	.....	e.	.....	.....	2	.....	10	.....	ssw.	0	0	mod	ne.	misty.
Bk. Celestina, N. 22° 08′ W. 22° 44′ *†	30.37	771.4	.....	.....	.....	ne.	.....	.....	4–5	.....	1	.....	ene.	0	0	r'gh	ene.	fair.
Bk. C. S. Bushnell, N. 38° 51′, E. 5° 30′	30.14	765.5	.....	.....	.....	wsw.	.....	.....	4	.....	5	.....	nw	0	0	.....	.....	
S. Dora, N. 62° 21′, W 8° 10′ *†	28.84	732.5	29.3	— 1.5	.....	wnw.	.....	.....	6–8	.....	10	.....	wnw.	8 h'r	8 h'r	mod.	nw.	overcast.
S. E. J. Spicer, N. 49° 37′, W. 9° 53′	30.22	767.6	48	8.9	92	wnw.	.....	.....	6	.....	10	.....	wnw.	rain	rain	high	wnw.	raining.
S. E. B. Sutton, N. 50° 13′, W. 14° 10′ *†	30.22	767.6	51	10.6	86	wnw.	.....	.....	5	.....	5	.....	nw.	rain	rain	hv'y	var.	fair.
Bk. Fred. W Carlon, N. 30° 30′. W. 73° 00′†	30.27	768.8	.....	.....	.....	se.	.....	.....	6	.....	2	.....	sse.	0	0	r'gh	sse.	clear.
S. Hedwig, N 36° 52′ E. 0° 48′	30.22	767.5	57.2	14.0	89	ssw.	.....	.....	6	.....	8	.....	var.	0	0	2	ssw.	overcast.
Bk. Heinrich & Tonio, N. 52° 00′, E. 2° 21′	.....	.....	47	8.3	85	wnw.	.....	.....	6	.....	0	.....	.....	0	0	mod.	wnw.	clear.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.11	765.3	.....	.....	.....	nnw.	.....	.....	6	.....	10	.....	nnw.	6 h'r	6 h'r	.....	.....	cloudy.
S. Henry, N. 38° 53′. W 17° 18′	.....	.....	60.8	16.0	.....	nw.	.....	.....	3–4	.....	10	.....	.....	.....	.....	3	wnw.	cloudy.
Bk. Idaho, N. 19° 44′, W. 74° 47′ *†	30.20	767.1	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	ene.	0	0	sm'h	.....	clear.
Bg. John Wesley, Havana, Cuba, W. I	.....	.....	.....	.....	.....	e.	.....	.....	4	.....	4	.....	s.	0	0	.....	.....	fair.
Schr. John L. Thomas, Hobbies Cays, C. A†	29.98	761.5	77	25.0	86	ene.	.....	.....	3	.....	1	.....	ene.	0	0	mod.	ne.	clear.
Bg. L & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.08	764.0	.....	.....	.....	ene.	.....	.....	1	.....	1	.....	ene.	1 h'r	1 h'r	.....	.....	
S. J. Laurel, Key West, Fla†	30.07	763.8	72	22.2	.....	se.	.....	.....	2–3	.....	5	.....	se.	0	0	.....	.....	fair.
S. S. Madrid, London, Eng†	29.85	758.2	45	7.2	84	ssw.	.....	.....	4	.....	5	.....	ssw.	3 h'r	3 h'r	.....	.....	fair.
Schr. Norena, N. 41° 34′, W. 65° 15′	.....	.....	.....	.....	.....	wsw.	.....	.....	2	.....	9	.....	sw.	4 h'r	4 h'r	light	sw.	light rain.
S. Parker M. Whitmore, N. 5° 21′, W. 31° 09′ *†	29.95	760.7	82	27.8	.....	ne.	.....	.....	5	.....	3	.....	ene.	1 h'r	1 h'r	sl't	nne.	fair.
S. S. P. de Satrastegui, N. 40° 45′, W. 46° 58′	30.00	777.2	.....	.....	.....	ene.	.....	.....	4	.....	10	.....	ene.	4 h'r	4 h'r	sm'h	.....	hazy.
Bg. Rising Sun, N. 21° 25′, W. 59° 30′†	30.20	767.1	75	23.9	.....	ene	.....	.....	5	.....	2	.....	ene.	0	0	long	ene.	squally.
Bk. Rosalie, N. 44° 26′, W. 26° 57′*†	30.47	773.9	.....	.....	.....	ne.	.....	.....	5	.....	8	.....	ne.	1¼h'r	1¼h'r	long	nw.	cloudy.
S. Salisbury, N. 19° 09′, W 44° 04′	30.25	768.3	69.3	20.7	88	ene.	.....	.....	6	.....	6 kn	.....	ene.	4 h'r	4 h'r	h'vy	var.	cloudy.
S. S. City of Alexandria, N. 22° 45′, W. 85° 40′	.....	.....	78	25.6	.....	sse.	.....	.....	3	.....	.....	.....	.....	.....	.....	small	s.	
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.79	756.7	72	22.2	95	ssw.	.....	.....	2	.....	10	.....	calm	.....	.....	mod.	sw.	cloudy.
U. S. S. Pinta, Rio de Janiero, Brazil	30.12	765.0	79	26.1	86	n.	.....	.....	1	.....	2	.....	calm	.....	.....	.....	.....	clear.
H. M. S. Amethyst, S. 38° 21′, W. 56° 24′	29.68	753.9	65.5	18.6	81	sw.	.....	.....	5	.....	9	sw.	.....	.....	.....	4	sw.	overcast.
H. M. S. Boadicea, S. 13° 24′, W. 8° 32′	30.00	762.0	77	25.0	.....	ese.	.....	.....	4	.....	5	ese.	.....	.....	.....	3	ese.	d. clouds.
H. M. S. Opal, S. 33° 25′, E. 17° 52′	29.84	757.9	68	20.0	79	sse.	.....	.....	3	.....	3	sse.	.....	.....	.....	0	sse.	blue sky.
H. P. M. S. Tejo, S 7° 51′, E. 13° 04′	30.08	764.0	83.3	28.5	93	sw.	.....	.....	1	.....	5	.....	.....	0	0	2	sw.	d. clouds.
Bg. Daphne, S. 3° 23′, W. 33° 00′*†	29.90	759.4	81	27.2	78	se.	.....	.....	4	.....	3	.....	se.	0	0	sm'h	sse.	clear.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.01	762.2	79	26.1	.....	n.	.....	.....	3	.....	8	.....	.....	0	0	.....	.....	
Bkt. Levanter, S. 25° 08′. W. 40° 45′*	30.14	765.5	80	26.7	.....	ne.	.....	.....	3	.....	9	.....	n.	2 h'r	2 h'r	long	ene.	cloudy.
S. St. David. S. 31° 35′, W 26° 00′ *†	30.52	775.2	68	20.0	84	s.	.....	.....	1	.....	9	.....	s.	0	0	long	s.	fine.
S. David Stewart, Pernambuco, Brazil†	29.86	758.4	85	29.4	.....	se.	.....	.....	3	.....	3	.....	se.	0	0	.....	.....	
Bk. Godeffroy, S. 35° 43′, W. 31° 36′	30.22	767.6	05.3	18.5	78	n.	.....	.....	4	.....	7 k	.....	wsw.	rain	rain	mod.	sw.	cloudy.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.05	763.3	42.5	5.8	46	nnw.	.....	.....	3	.....	2	.....	w.	0	0	.....	.....	clear.
U. S. S. Adams, Sitka, Alaska†	29.70	755.9	41	5.0	82	e.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Alert, N. 15° 48′, E. 169° 54′	29.93	760.2	76	24.4	95	nne.	.....	.....	4	.....	10	.....	ne.	.....	.....	mod.	nw.	rainy.
U. S. S. Essex, Canton, China	30.15	765.8	72	22.2	85	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. S. Juniata, Shanghai, China	30.38	771.6	45	7.2	84	nne.	.....	.....	1	.....	10	.....	.....	light	light	.....	.....	cloudy.
U. S. S. Monocacy, Shanghai, China	30.35	770.9	47	8.3	77	n	.....	.....	2	.....	10	.....	n.	.....	.....	.....	.....	cloudy.
U. S. S. Richmond, Shanghai, China	30.40	772.1	46	7.8	92	nne.	.....	.....	3	.....	10	.....	ne.	0.60	15.2	.....	.....	cloudy.
H. M. S. Audacious, Hong Kong, China	.....	.....	70	21.1	90	ene.	.....	.....	1	.....	10	ene.	.....	.....	.....	.....	.....	overcast.
H. M. S. Cleopatra, off Amoy, China	.....	.....	61	16.1	94	ese.	.....	.....	1	.....	10	s.	.....	.....	.....	sm'h	.....	overcast.
H. M. S. Champion, Shanghai, China	30.35	770.9	43	6.1	83	ne.	.....	.....	2	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.89	759.2	78.4	25.8	85	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	misty.
H. P. M S. Tamega, Macao, China	30.17	766.2	72.5	22.4	91	calm	.....	.....	0	.....	10	.....	.....	3 h'r	3 h'r	.....	.....	raining.
S. S. Newbern, N. 23° 04′, W. 107° 38′ *†	30.00	762.0	70	21.1	70	n.	.....	.....	5	.....	3	.....	nnw.	0	0	rg'h	nnw.	clear.
S. S. Oregon, Astoria, Oregon	.....	.....	36	2.2	90	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Alameda, Honolulu, Sandwich Ids†	30.02	762.5	71	21.7	71	ne.	.....	.....	4	.....	5	.....	ne.	shr's	shr's	.....	.....	squally.
S. S. Ancon, San Francisco, Cal.†	30.18	766.6	47	8.3	85	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	foggy.
S. S. City of Chester, off Cape Mendocino, Cal†	30.22	767.6	49	9.4	85	nw.	.....	.....	6	.....	10	.....	.....	.....	.....	h'vy	w.	
S. S. Orizaba, N. 33° 43′, W. 118° 14′ †	30.23	767.8	50	13.3	94	w.	.....	.....	2	.....	hz.	.....	.....	0	0	long	sw.	hazy.
S. S. Queen of the Pacific, N. 46° 00′, W. 124° 50′	.....	.....	40?	7.8?	84	nnw.	.....	.....	2	.....	10	.....	n.	0	0	long	w.	cloudy.
S. S. State of California, Portland, Oregon†	30.37	771.4	28	— 2.2	77	calm	.....	.....	0	.....	3	.....	nw.	.....	.....	.....	.....	clear.
S. S. City of Pekin, N. 41° 34′, W. 133° 45′	.....	.....	52	11.1	86	sw.	.....	.....	3	.....	10	.....	sw.	.....	.....	long	wsw.	overcast.
S. S. City of Rio de Janeiro, Honolulu, Sandwich Ids†	30.05	763.3	72	22.2	.....	ne.	.....	.....	6	.....	7	.....	ne.	.....	.....	small	ne.	raining.
S. S. City of Sydney, N. 26° 19′, W. 148° 19′*†	30.20	767.1	71	21.7	90	ene.	.....	.....	6	8 ck	.....	ne.	.....	.....	.....	h'vy	ne.	cloudy.
S. S. Granada, Panama, Panama†	29.89	759.2	74	23.3	90	nw.	.....	.....	1	.....	0	.....	.....	0	0	light	nw.	clear.
S. S. San Blas, N. 18° 02′, W. 103° 21′†	29.93	760.2	76	24.4	82	n.	.....	.....	2	.....	7	.....	se.	0	0	small	wsw.	fair.
S. S. Zealandia, N. 33° 08′, W. 134° 14′	30.51	774.9	59	15.0	82	n.	.....	.....	4	.....	.....	.....	n.	10 h'r	10 h'r	long	nw.	overcast.
Bk. Alpheus Marshall, N. 19° 54′, E. 145° 34′*†	30.08	764.0	74	23.3	81	ese.	.....	.....	4	.....	3	.....	ese.	0	0	mod.	ne.	clear.
S. S. Benalder, N. 24° —′, E. 118° 15′*	30.23	767.8	62	16.7	88	ene.	.....	.....	2–3	.....	5	.....	ne.	0	0	mod.	ne.	foggy.
S. Carondelet, S. 1° 49′, E. 128° 38′*†	29.90	759.4	.....	.....	.....	wsw.	.....	.....	5	.....	4	.....	wsw.	3 h'r	3 h'r	sm'h	w.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 12° 10′, W. 94° 58′	29.94	760.5	74	23.3	90	se.	.....	.....	5	.....	10	.....	se.	light	light	sm'h	se.	cloudy.
U. S. S. Lackawanna, S. 12° 16′, W. 80° 13′	29.89	759.2	76	24.4	77	s.	.....	.....	1	.....	2	.....	.....	sm'h	se.	clear.
U. S. S. Onward, Callao, Peru*†	29.99	761.7	72	22.2	95	s.	.....	.....	1	.....	10	.....	s.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru*	29.95	760.7	71	21.7	95	s.	.....	.....	1	.....	5	.....	s.	.....	.....	sm'h	.....	fair.
H. M. S. Lark, S. 36° 50′. E. 174° 48′	29.82	757.4	61	16.1	77	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.86	758.4	67	19.4	.....	nne.	.....	.....	2	.....	.....	.....	.....	.....	.....	2	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.43	747.5	54	12.2	?	n.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	raining.
H. M. S. Sylvia, off Sandy Point, Patagonia	28.30	718.8	50	10.0	68	sw.	.....	.....	3	.....	8	wsw.	.....	.....	.....	.....	.....	d. clouds.
S. S. Australia, Sydney, N. S. W.	29.84	757.9	70	21.1	.....	e.	.....	.....	2	.....	2	.....	e.	0	0	.....	.....	clear.
S. S. George S Homer, S. 48° 06′ W. 120° 31′ *†	29.75	755.6	.....	.....	.....	wnw.	.....	.....	1	.....	1	.....	wnw.	0	0	cross	var.	foggy.
S. Ismir, S. 19° 07′, W. 77° 36′*	30.26	768.6	.....	.....	.....	calm	.....	.....	0	.....	3	.....	calm	0	0	long	ssw.	clear.
S. St. Francis, S. 20° 30′, W. 94° 00′*†	30.05	763.3	74	23.3	68	se.	.....	.....	4	.....	1	.....	se.	0	0	mod.	s.	clear.
S. Grecian, S. 45° 05′, W. 124° 20′ †	29.87	758.7	58	14.4	88	sw.	.....	.....	4	.....	10	.....	wsw.	1 h'r	1 h'r	long	w.	cloudy.
S. Henry Failing, S. 49° 24′, W. 129° 10′ *†	29.90	759.4	58	14.4	70	calm	.....	.....	0	.....	5	.....	nw.	0	0	long	nnw.	fair.
H. M. S. Espiegle, S. 45° 05′, E. 171° 44′	29.91	759.7	56	13.3	75	nne.	.....	.....	4	.....	7	.....	sw.	.....	.....	2	n.	squally.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Majunga, Madagascar	29.82	757.4	81	27.2	91	wnw.	15	6.7	.....	.....	10	.....	nw.	1.77	45.0	sm'h	.....	cloudy
U. S. S. Pensacola, Tamatave, Madagascar*	29.62	752.3	84	28.9	71	ne.	.....	.....	3	.....	8	.....	calm	0.50	12.7	sm'h	ene.	cloudy.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	30.11	764.8	75	23.9	86	calm	.....	.....	0	.....	5	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	30.07	763.8	72	22.2	76	n.	.....	.....	4	.....	6	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Orontes, S. 2° 52′, E. 49° 40′	29.94	760.5	79	26.1	.....	ne.	.....	.....	3	.....	4	ne.	.....	.....	.....	1	ne.	d. clouds.
H. M. S. Tourmaline, Mahnaru, Madagascar	29.70	754.4	82	27.8	87	nne.	.....	.....	2	.....	.....	.....	.....	.....	.....	6	ne.	d. clouds.
S. S. Galatia, Calcutta, India†	30.06	763.5	77	25.0	91	nnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Port Phillip, S. 16° 28′, E. 90° 29′*	29.89	759.2	87	30.6	.....	ese.	.....	.....	2–3	.....	.....	.....	.....	.....	.....	sm'h	e.	clear.
S. S. Radnorshire, N. 12° 19′, E. 58° 20′*†	30.04	763.0	.....	.....	.....	ne.	.....	.....	4	.....	1	.....	ne.	0	0	light	ne.	clear.
S. S. Lepanto, N. 13° 06′, E. 47° 02′	30.02	762.5	75	23.9	.....	sw.	.....	.....	2	.....	5	.....	sw.	0	0	sm'h	.....	fair.

International Chart I. January 24, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 25. 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.20	767.1	61.2	16.2	83	se.	.....	.....	7	.....	3	.....	.....	inap.	inap.	pretty fair...	Roziere.
Algiers	.....	.....	30.19	766.8	49.3	9.6	92	n	.....	.....	1	.....	10	.....	.....	0.906	23.0	covered.....	Aubert.
La Galle	.....	.....	30.15	765.8	50.7	10.4	85	w.	.....	.....	3	.....	5	.....	.....	inap.	inap.	cloudy.....	Fonfrède.
Tunis	.....	.....	30.17	766.2	51.1	10.6	89	nw.	.....	.....	3	.....	5	.....	.....	0.020	0.5	cloudy.....	Delord.
Tebessa	.....	.....	.....	.....	46.8	8.2	75	s.	.....	.....	3	.....	2	.....	.....	inap	inap.	fair.....	Hans.
Geriville	.....	.....	.....	.....	39.2	4.0	87	nw.	.....	.....	5	.....	5	.....	.....	0	0	cloudy	Forfert.
Laghouat	.....	.....	30.35	771.0	57.6	14.2	78	calm	.....	.....	0	.....	10	.....	.....	inap.	inap.	covered	Abraham.
Biskra	.....	.....	30.24	768.0	53.6	12.0	45	n.	.....	.....	1	.....	6	.....	.....	0.039	1.0	cloudy.....	Gonson.
Australian.																			
Adelaide, South Australia	.....	.....	29.06	738.1	56.0	13.3	81	calm	0	0	.....	.....	6 k	.....	.....	.....	.....	showery.....	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.50	749.3	29.69	754.1	52.5	11.4	87	ssw.	.....	.....	3	.....	10	.....	ssw.	0.28	7.1	cloudy	Com. I. Short, R.N.
Melbourne, Victoria	29.81	757.2	29.90	759.4	56.5	13.6	63	sw.	13	5.8	.....	.....	8	.....	.....	0.09	2.3	dull.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.57	751.0	30.13	765.3	45.5	7.5	31	ne.	.....	.....	3	.....	3	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.17	740.8	29.96	761.0	36.3	2.4	70	w.	10.5	4.7	.....	.....	10	.....	.....	0.039	1.0	.....	Dr. Wierzbiski
Eperies	29.06	738.2	29.97	761.3	37.4	3.0	69	nw.	.....	.....	1	.....	5 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.82	732.1	30.11	764.9	39.6	4.2	38	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.56	725.4	30.04	763.0	36.5	2.5	77	nw.	.....	.....	4	.....	3	.....	.....	0	0	.....	Prof. A. Gottschling
Kremsmunster, Obs'y	28.70	728.9	30.09	764.2	36.7	2.6	59	wnw.	.....	.....	2	.....	1	.....	.....	0	0	.....	The Staff.
Lemberg	28.89	733.8	29.91	759.8	34.5	1.4	71	w.	.....	.....	4	.....	10	.....	.....	0.004	0.1	.....	Dr. T. Stanecki.
Pola	29.91	759.7	30.02	762.5	46.4	8.0	41	e.	.....	.....	6	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.51	749.6	29.99	761.8	37.4	3.0	78	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J
Szegedin	29.76	756.0	30.05	763.3	40.8	4.9	64	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.99	761.7	30.09	763.2	48.0	8.9	25	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.35	745.4	30.08	764.1	40.3	4.6	47	w.	.....	.....	3	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.23	717.0	29.66	753.3	33.6	0.9	100	sw.	.....	.....	2	.....	4	.....	.....	0	0	.....	
Brussels	29.60	751.9	29.81	757.2	41.4	5.2	77	sw.	.....	.....	5	.....	10	.....	sw.	0	0	.....	
Furnes	29.71	754.6	29.73	755.1	45.1	7.3	83	ssw.	.....	.....	1	.....	8	.....	.....	0.008	0.2	.....	
Maeseyck	29.67	753.5	29.79	756.7	42.6	5.9	73	ssw.	.....	.....	3	.....	7	.....	.....	0	0	.....	
British.																			
Aberdeen	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Boswell.
Bidston, Liverpool Obs'y	.....	.....	29.39	746.5	43.6	6.4	66	wsw.	36	16.1	.....	.....	9	.....	.....	.....	.....	overcast.....	John Harnup.
Bolton, Sharples	28.85	732.8	29.39	746.5	40.5	4.7	83	wsw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast.....	Thomas Mackereth.
Bradford, Yorkshire	28.96	735.6	29.36	745.7	41.9	5.5	77	nw.	.....	.....	4	.....	10	.....	.....	0.25	6.3	raining.....	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.03	762.7	30.06	763.5	84	28.9	60	ne.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds.....	Corp'l W. I. Cull, A.H.C.
Cardington	29.45	748.0	29.57	751.1	42.2	5.7	85	sw.	.....	.....	5.0	.....	7	.....	.....	.....	.....	d. clouds.....	John McLaren.
Chatham, School M. E.	29.47	748.5	29.64	752.8	45.1	7.3	86	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	raining.....	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.51	749.5	29.74	755.4	48.2	9.0	78	wsw.	.....	.....	5	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.58	700.5	29.90	759.4	70.0	21.1	92	se.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	86	30.0	58	e.	.....	.....	6	.....	1	.....	.....	.....	.....	d. clouds.....	J. W. Smith.
Galway, Queen's College	29.42	747.3	29.46	748.3	39	3.9	91	sw.	.....	.....	5	.....	10	.....	.....	0.28	7.1	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.22	767.6	30.27	768.8	58.0	14.4	88	sw.	.....	.....	4	.....	6	.....	.....	.....	.....	d clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.46	748.3	29.63	752.6	45.7	7.6	80	wsw.	.....	.....	.....	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Guernsey	29.53	750.0	29.83	757.7	46.5	8.1	88	wsw.	.....	.....	5	.....	9	.....	.....	.....	.....	overcast.....	A. Collenette, F.R.M.S.
Kew, Observatory	29.60	751.8	29.64	752.8	45.4	7.4	76	wsw.	26	11.6	.....	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.22	742.2	29.48	748.8	44.0	6.7	80	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast.....	J. C. Smith.
Malta, Mediterranean	29.98	761.5	30.05	763.3	57.0	13.9	70	sw.	.....	.....	2	.....	4	.....	.....	0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.22	767.6	30.27	768.8	72.5	22.5	92	s.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.36	745.7	29.59	751.6	44.9	7.2	78	sw.	.....	.....	6	.....	7	.....	.....	.....	.....	d. clouds.....	The Staff.
Plymouth	29.64	752.8	29.71	754.6	48.0	8.9	83	wsw.	.....	.....	6	.....	10	.....	.....	.....	.....	overcast.....	John Merrifield.
Sandwick Manse, Orkneys	28.62	726.9	28.73	729.7	34.2	1.2	90	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty.....	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.91	759.7	29.98	761.5	50.0	10.0	75	s.	.....	.....	1	.....	9	.....	.....	.....	.....	gloomy.....	W. H. Lyne.
Sheffield	29.13	739.9	29.41	747.0	43.4	6.3	71	sw.	.....	.....	3	.....	5	.....	.....	0.16	4.1	d. clouds.....	W. F. Cooper.
Silloth Rectory	29.21	741.9	29.24	742.7	40.0	4.4	86	w.	.....	.....	5	.....	10	.....	.....	0.035	0.9	hailing	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.37	746.0	41.3	5.2	76	w.	23	10.3	.....	.....	10	.....	.....	blank	blank	overcast.	Rev. S. J. Perry.
Strathfield Turgiss	.....	.....	.....	.....	45.0	7.2	80	sw.	.....	.....	3.0	.....	8	.....	.....	.....	.....	d. clouds....	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.55	750.6	29.58	751.3	45.1	7.3	70	w.	30	13.4	.....	.....	10	.....	.....	.....	.....	gloomy.....	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.65	753.1	30.04	763.0	57.9	14.4	59	sw.	10.6	4.7	.....	3 c	5 k	w.	sw.	0	0	fair.....	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.18	766.6	30.22	767.6	5.0	—15.0	.....	calm	0	0	.....	10 c	0	.....	.....	0	0	overcast.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.03	762.7	30.08	764.0	3	—16.1	100	n.	12	5.4	.....	.....	10 n	.....	calm	0.580	14.7	cloudy.....	H. J. Cundall, C. E.
Chatham, N. B*	30.13	765.3	30.19	766.8	0	—17.8	100	ne.	1	0.4	.....	.....	10 s	.....	ne.	0.62	15.7	cloudy.....	G. A. Blair.
Cornwall, Ontario	30.18	766.6	30.41	772.4	—16.2	—26.8	100	w.	.....	.....	2	0	0	.....	.....	0.250	6.3	blue sky.....	Jas. Smith, M. A.
Dalhousie, N. B	30.18	766.6	30.24	768.1	— 2.5	—19.2	.....	w.	.....	.....	1	8 cs	0	.....	.....	0	0	d. clouds.....	H. A. Johnson.
Father Point, Quebec*	30.31	769.9	30.33	770.4	— 2.1	—18.9	60	s.	5	2.2	.....	0	2 s	.....	calm	0.20	5.1	clear.....	J. McWilliams.
Fort Garry, Manitoba*	29.28	743.7	30.24	768.1	— 8	—22.2	100	n.	17	7.6	.....	.....	10 k	.....	n.	0.10	2.5	fair.....	James Stewart.
Fredericton, N. B	30.14	765.5	30.21	767.3	3.1	—16.1	95	w.	4	1.8	.....	.....	10 s	.....	.....	0.700	17.8	overcast.....	Prof. Thos. Harrison.
Grand Manan, N. B	30.08	764.0	30.14	765.5	10	—12.2	91	n.	16	7.2	.....	.....	10 s	.....	n.	0.53	13.5	cloudy.....	J. Chipman Seeley
Granton, Ontario	29.27	743.4	30.56	776.2	—11.9	—24.4	91	calm	0	0	.....	.....	10 n	.....	.....	0	0	overcast.....	Jas. Grant.
Halifax, N. S*	29.82	757.4	29.96	761.0	16	— 8.9	96	n.	13	5.8	.....	.....	10 n	.....	.....	0.918	23.3	light snow...	A. Allison.
Hamilton, Ontario	30.07	763.8	30.54	775.7	—17.4	—27.4	71	sw.	.....	.....	1	0	0	.....	.....	0.100	2.5	blue sky.....	Geo. Dickson, B. A.
Kingston, Ontario*	30.04	763.0	30.41	772.4	—17	—27.2	46	w.	1	0.4	.....	0	0	.....	.....	0.06	1.5	clear.....	A. P. Knight, M. A.
Little Glace Bay, N. S	29.84	758.9	29.93	760.2	16.0	— 8.9	91	nw.	5	2.2	.....	.....	10 n	.....	.....	0.500	12.7	overcast.....	C. H. Rigby.
London, Ontario	29.50	749.3	30.57	776.5	—14.9	—26.1	94	calm	.....	.....	0	0	5	.....	.....	0	0	misty.....	E. B. Reed.
Medicine Hat, N. W. T	27.58	700.5	30.11	764.8	0	—17.8	83	sw.	4	1.8	.....	.....	10 n	.....	.....	0	0	cloudy.....	John Ewart.
Minnedosa, N. W. T	28.12	714.2	30.37	771.4	—19	—28.3	.....	sw.	1	0.4	.....	0	0	.....	.....	0.07	1.8	clear.....	Rev. J. M. Wellwood.
Montreal, Quebec*	30.16	766.1	30.39	771.9	— 1	—18.3	83	w.	12	5.4	.....	.....	10 ks	.....	w.	0.23	5.8	cloudy.....	C. H. McLeod, C. E.
Ottawa, Ontario	30.16	766.1	30.44	773.2	—31.8	—35.4	100	nnw.	.....	.....	.....	0	0	.....	.....	0.10	2.5	blue sky.....	A. McGill, M. A.
Parry Sound, Ontario*	29.65	753.1	30.51	774.9	—32	—35.6	100	n.	7	3.1	.....	0	0	.....	.....	0	0	clear.....	Rev. R. Mosley.
Peterboro, Ontario	29.64	752.8	30.53	775.4	—21.9	—31.6	91	w.	.....	.....	1	0	0	.....	.....	0.19	4.8	blue sky.....	Wm. O'Connor, M.A.
Port Arthur	29.38	746.2	30.16	766.1	1	—17.2	83	calm	0	0	.....	8 cs	0	.....	.....	0.02	0.5	fair.....	W. P. Cooke.
Port Dover, Ontario	29.72	754.9	30.64	778.2	—19	—28.3	100	calm	0	0	.....	0	0	.....	.....	0.40	10.2	clear.....	H. Morgan.
Port Stanley, Ontario	29.79	756.7	30.55	776.0	—15	—26.1	100	nw.	2	0.9	.....	.....	10 n	.....	nw.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	27.75	704.8	30.35	770.9	—13	—25.0	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	Leslie Gordon.
Quebec, Quebec*	29.93	760.2	30.34	770.6	— 1	—18.3	48	calm	0	0	.....	.....	10 ks	.....	.....	0	0	cloudy.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.97	761.2	30.55	776.0	—37	—38.3	100	calm	0	0	.....	0	fg	.....	.....	0	0	clear.....	W. H. McIntyre.
St. Andrews, N. B	30.04	763.0	30.10	764.5	8	—13.3	95	n.	10	4.5	.....	.....	10 n	.....	.....	0.26	6.6	cloudy.....	
St. John, N. B	29.94	760.5	30.10	764.5	5.5	—14.7	88	n.	20	8.9	.....	.....	10 n	.....	.....	0.270	6.9	overcast.....	G. Hutchinson.
Saint John's, N. F	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. Higgins.
St. Pierre, N. F	.....	.....	29.69	754.0	35.6	2.0	.....	sw.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	The Commandant.
Saugeen, Ontario*	29.65	753.1	30.48	774.2	— 8	—22.2	95	se.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	29.04	737.6	30.39	771.9	—13.4	—25.2	69	calm	0	0			10 n			0	0	overcast	W. Mc Bride, M. A.
Sydney, C. B*	29.80	756.9	29.86	758.4	21	— 6.1	91	n.	12	5.4			10 n			0.74	18.8	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	30.09	764.3	30.52	775.2	—11	—23.9	90	nw.	8	3.6		0	0			0.03	0.8	clear	Magnetic Observatory.
Woodstock, Ontario	29.33	745.0	30.60	777.2	—20.7	—29.3	71	sw.	1	0.4			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.91	759.7	29.98	761.5	23	— 5.0	76	n.	9	4.0			10 k		w.	0.71	18.0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.77	756.1	29.80	756.9	74.0	23.3	90	ne.				7 ck	0			0.600	15.2	fine	I. Garfelt.
Cape Town, The Castle	29.81	757.2			72.0	22.2	79	nnw.				c	6 n						Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			74	23.3	61												J. T. Eustace
Chilian.																			
Coquimbo	29.89	759 3	29.97	761.3	63.9	17.7	83	n.			4	10	0					cloudy	Samuel Redolez.
Iquique	29.95	760.7	29.98	761.4	76.1	24.5	67	sw.			3	6 c	0					foggy	Rafael Moreno.
Niebla	29.54	750 2	29.64	752.9	59.4	15.2	78	e.			2	1 k	0	w.		0	0	fair	Federico Köhling.
Punta Caldera	29.83	757.7	29.92	759.9	67.3	19.6	89	nw.			1	8 c	0	nw.				fair	Manuel Tobar.
Punta Corona	29.85	758.3	30.04	763.0				n.			4	2 s	0	n.		0	0	cloudy	Francisco Alvarado.
Valparaiso	29.78	756.4	29.92	759.9	63.5	17.5	85	sw.			0	0						clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.32	770.1	30.34	770.7	42.8	6.0	85	nne.	3.8	1.7		10				0.067	1.7		M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.35	745.5	29.40	746 7	36.7	2.6	89	sw.	27	12		10						hazy	Oversergent Fischer.
Fanöe	29.24	742.8	29.26	743 3	41.0	5.0	89	sw.			6	10							Overloerer Lauridsen.
Godthaab, Greenland	29.71	754.7	29.76	755.8	— 8.5	—22.5	100	n.			4	9							S. Kleinschmidt.
Stykkisholm, Iceland	29.03	737.3	29.07	738.4	13.6	—10.2	83	ne.			7	8							A. O. Thorlacius.
Thorshavn	28.80	731.6	28.83	732.2	28.0	— 2.2	65	n.	9	4		5							Overloerer Bergh.
Vestervig	28.97	735.8	29.06	738.2	40.6	4.8	97	wsw.			8	10						raining	Loerer Oesterbol.
Egyptian.																			
Cairo	29.97	761.1			59.9	15.5		nnw.	2.2	1.0		0	3 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.54	750.3	30.21	767.4	34.9	1.6	100	sse.			1		10					rain & fog	M. Labroue, Director.
Alençon, Normal School	29.47	748.5	30.02	762.5	41.4	5.2	91	s.			1		n		n.	0	0		M. Nicot, Director.
Arras, Normal School			29.80	757.0	43.3	6.3	78	sw.			6		2	sw.		0	0	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	29.93	760.3	30.01	762.3	46.8	8.2	40	nnw.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.48	748.7	30.05	763 3	40.8	4.9	76	sw.			1		5			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.65	753.1	29.92	760.0	42.3	5.7	78	sw.			2		5		wnw.	0	0	cloudy	M. Frère Eugène Mariè.
Besançon, Normal School	29.15	740.4	30.07	763.8	48.2	9	63	sw.			2		0			0.386	9.8	clear	M. Gobin, Director.
Bordeaux, Observatory	29.84	757.8	30.11	764.8	35.4	1.9	100	se.			1		0			0.028	0.7	foggy	M. Rayet, Director.
Bourges, Normal School	29 50	749.3	30.07	763.7	41.9	5.5	84	sw.			1		k		sw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.72	754.8	29.96	761 0	51.1	10.6	82	wsw.			2		6		wsw.	0.098	2.5		M. de Kermarée, Dir.
Caen, Normal School	29.80	757.0	29.88	758.9	46.0	7.8	97	sw.			2		5		sw.	0.008	0.2	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.64	752.9	29.97	761.2	39.4	4.1	94	ssw.			4		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.41	747.0	29.93	760.2	37.4	3.0	72	s.			1					0	0		M. Noël, Director.
Clermont-Ferrand Obs'y	28.71	729.2	30.10	764.4	45.1	7.3	49	nw.			1		0			0	0		M. Allnard, Director.
Cluny, Normal School	29.20	741.7	30.07	763 8	42.8	6	61	w.			1		4		wnw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.15	740 4	30.04	762.9	39.2	4	73	w.			1		5 s	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27 41	696 2	30.00	762.1	40.6	4.8	46	n.			2		1			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.83	732.3	29.97	761.3	47.8	8.8	47	n.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.33	744.9	30.12	765.1	38.8	3.8	70	s.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.48	723.4	30.07	763.8	41.9	5.5	78	sw.			8		n		sw.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.56	750.7	30.13	765 2	49.6	9.8	60	ne.			1	2 ck				0.339	8.6	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.88	759.0	29.98	761 6	51.4	10.8	61	sw.			2		5	w.	sw.	0.134	3.4	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.02	737 2	30.12	765.0	39.6	4.2	64	e.			1		0			0	0	clear	M. André, Director.
Mans, Normal School	29.69	754.0	30.00	762.0	42.3	5 7		ssw.			1		5 k		wsw.	0	0	cloudy	M. Richard, Director.
Marseille, Observatory	29.68	753.9	29.95	760.8	52.5	11.4	41	ne.			0–1		0			0	0		M. Stephan, Director.
Montlouis	24.70	627.3	29.54	750.3	38.3	3.5	60	sw.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.89	759.3	30.00	762.1	48.9	9.4	71	nw.			2		0			0	0	clear	M. Gulzin, Director.
Nancy, Normal School	29.22	742.3	30.03	762 8	41.7	5.4	58	ssw.			2		kn; cs		wsw.	0	0		M. Hasse, Director.
Nantes, Observatory	29.88	758.9	30.04	763.0	49.6	9.8	74	sw.			1–2	c	7 k	wsw.	sw.	0.008	0.2		M. Larocque, Director.
Perpignan, Observatory	29.97	761.2	30.08	764.1	51.1	10.6	42	nw.	11.2	5.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.06	535.0			21.2	— 6.0		n.			1		1		n.	0.118	3.0	clear	M. Vaussenat, Director.
Privas, Normal School	28.97	735.7	30.06	763.6	43.2	6.2	71	n.			1		n			0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.07	636.8			23.2	— 4.9	98	w.			2		2		w.	0.016	0.4		M. Alluard.
Rochefort, Naval Obs'y	30.07	763.7	30.10	764.5	47.8	8.8	78	s.			1		10		s.	0.28	7.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.00	762.1	30.22	767.7	46.4	8	89	s.			1		5		e.	0.20	5.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.92	709.2	30.15	765.9	35.8	2.1		nw.			1		5		se.	0.024	0.6	fair	M. Seger, Director.
Rouen, Normal School	29.80	756.9	29.85	758.1	45.7	7.6	88	sw.			1		0			0	0	clear	M. Mouillot, Dir.
St. Lô, Normal School			29.75	755.7	46.4	8	79	w.			0–1		n	sw.	w.	0	0		M. Delaplanche, Dir.
Saint Maur, Observatory	29.81	757.2	29.98	761.4	40.6	4.8	80	ssw.			4		5	w.		0	0	cloudy	M. Renou, Director.
Toulouse, Observatory	29.43	747.6	30.16	766.0	45.0	7.2	65	e.			1		5	w.		0	0	cloudy	M. Baillaud, Director.
Tours	29.85	758.1	30.02	762.6	44.6	7.0	77	ssw.			1		5	w.	sw.	inap.	inap.	cloudy	M. de Tastes.
Versailles, Observatory	29.47	748.5	29.96	761 0	41.4	5.2	78	sw.			4		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.98	761.4	30.13	756.2	46.8	8.2	86	e.	2.0	0.9		ck	9 k	w.		0.047	1.2		M. Cartier, Director.
German.																			
Ansbach	28.57	725.6	30.08	763.9	35.6	2.0	64	sw.			2		1	sw.		0.031	0.8		Prof. Jnedt.
Bamberg	29.16	740.7	30.00	762.1	37.6	3.1	60	w.			2		6 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.66	753 3	29.80	757.0	38.5	3.6	73	sw.			3		9			0.039	1.0		Meteorological Institute
Breslau	29.42	747.3	29.95	760 7	37.6	3.1	64	wsw.			3		1			0.004	0.1		Royal University Obs'y
Carlsruhe	29.57	751.1	30.04	763.0	41.9	5.5	59	sw.			4		0			0	0		Albert Senz.
Cassel	29.09	738.9	29.80	757.0	36.5	2.5	82	s.			6		7	s.		0.256	6.5		Dr. H. Möhl.
Frankfort-on-the-Main	29.59	751.5	29.96	761.0	40.3	4.6	70	ssw.			2		3			0	0		Physical Society.
Friedrichshafen	28.63	727.2	30.10	764.5	36.7	2.6	56	w.			2		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.53	750.1	29.62	752.4	38.1	3.4	88	sw.			7		10			0.024	0.6		E. Preller.
Kiel	29.48	748.9	29.50	749.3	38.8	3.8	84	sw.			4		10			0.024	0.6		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.48	748.7	29.91	759.7	38.8	3.8	77	sw.			4		7	wsw.		0.126	3.2		H. Leppig, Asst.
Magdeburg	29.61	752.0	29.80	756.9	38.5	3.6	75	sw.			3		4	wnw.		0.114	2.9		Weather Observatory.
Memel	29.62	752.3	29.67	753.5	37.4	3.0	79	w.			5		8 k						Issermann.
Munich	28.20	716.3	30.06	763.6	36.3	2.4	44	w.			4		0			0.020	0.5		Central Station.
Neufahrwasser	29.72	754.8	29.73	755.2	35.2	1.8	84	sw.			4		7	sw.		0.004	0.1		A. Lothes.
Neustadt, Palatinate	29.45	747.9	29.97	761.3	41.0	5.0	69	s.			4		4	w.		0	0		Dicknether.
Stuttgart	29.06	738.0	29.98	761.4	39.2	4.0	59	sw.			3		1	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.53	750.0	29.55	750.6	37.9	3.3	83	sw.			5		10			0.291	7.4	heavy rain	Profs. Brandes & Reimer
Greek.																			
Athens	29.64	752.8	30.03	762.7	56.8	13.8		sw.			1.0	2	0			0	0	hazy	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.98	761.4	30.03	762.7	72.7	22.6	86	sw.	27.0	12.1			10		sw.	0.03	0.8	overcast	
Deesa	29.56	750.8	30.04	762.9	83.2	28.4	22	wsw.	6.0	2.7			0			0	0	blue sky	
Bombay	29.96	761.0	30.00	762.0	77.8	25.4	69	nnw.	16.0	7.2			0			0	0	blue sky	
Poona, Yarrowda	28.13	714.4	29.97	761.3	83.8	28.8	19	ene.	5.0	2.2			0			0	0	blue sky	
Belgaum	27.45	697.2	29.98	761.6	79.6	26.4	20	ene.	3.0	1.3			0			0	0	blue sky	
Lahore	29.25	742.9	30.02	762.4	70.2	21.2	59	calm	0	0			6			0	0	d. clouds	
Roorkee	29.09	738.8	30.01	762.2	70.7	21 5	49	calm	0	0			0			0	0	blue sky	
Agra	29.46	748.4	30.04	763.1	74.2	23.4	44	calm	0	0			0			0	0	blue sky	
Nagpur	28.96	735.7	30.02	762.4	78.3	25.7	34	ne.	1.0	0.4			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.68	728.6	30.07	763.8	71.2	21.8	45	calm	0.7	0.3			0			0	0	blue sky	
Lucknow	29.66	753.4	30.05	763.3	69.3	20.7	49	nw.	2.0	0.9			0			0	0	blue sky	
Allahabad	29.72	754.8	30.04	763.0	68.8	20.4	65	calm	0	0			0			0	0	blue sky	
Patna	29.86	758.5	30.05	763.4	68.9	20.5	60	nw.	1.0	0.4			0			0	0	blue sky	
Hazaribagh	27.98	710.8	30.05	763.3	66.1	18.9	41	nw.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.94	760.6	30.03	762.7	77.2	25.1	57	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	30.00	761.9	30.02	762.5	69.8	21.0	66	calm	0	0			0			0	0	blue sky	
Dhubri	29.91	759.8	30.04	762.9	67.0	19.4	63	n.	3.4	1.5			0			0	0	blue sky	
Chittagong	29.93	760.3	30.03	762.6	66.8	19.3	84	wsw.	1.9	0.8			1			0	0	d. clouds	
Sibsagar	29.73	755.1	30.09	764.2	56.9	13.8	84	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.58	725.8	30.04	763.1	74.7	23.7	43	wsw.	1.5	0.7			0			0	0	blue sky	
Zanzibar	29.82	757.4	29.84	758.0	85.3	29.6	63	ene.	11.9	5.3			2	n.		0	0	d. clouds	
Bellary	28.50	723.9			81.5	27.5	24	se.	6	2.7		0	0			0	0	blue sky	
Trichinopoly	29.75	755.6			80.5	26.9	40	ne.	0.2	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.66	753.4	30.09	764.2	46.6	8.1	18	ne.	1.3	0.6			0			0	0		Prof. Giovanni Clodig.
Milan	29.57	751.0	30.11	764.7	42.4	5.8	54	se.	7.4	3.3			0			0	0		Prof. G. V. Schiapparelli
Padua	29.97	761.1	30.08	764.0	46.6	8.1	36	ese.	13.0	5.8			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.52	749.9	30.07	763.8	41.4	5.2	51	n.	1.8	0.8			0			0	0		Prof. F. F. Denza.
Genoa	29.79	756.7	29.99	761.7	52.7	11.5	22	n.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.
Pesaro	29.98	761.5	30.03	762.8	46.2	7.9	83	ne.	4.3	1.9			5	se		0.039	1.0		Prof. Luigi Guidi.
Florence	29.71	754.7	29.98	761.4	48.7	9.3	57	nne.			2		2			0.965	24.5		Prof. Costantino Pittel.
Leghorn	29.81	757.1	29.89	759.3	50.9	10.5	50	ene.	5.6	2.5			0			0.047	1.2		Prof. P. Monte.
Rome	29.71	754.6	29.89	759.1	52.2	11.2	71	ne.	4.3	1.9			10			0	0		Prof. P. Tacchini.
Lecce	29.67	753.6	29.93	760.2	56.8	13.8	52	wsw.	13.0	5.8			8	wsw.		0	0		Prof. C. de Giorgi.
Cosenza	29.07	738.4	29.99	761.8	46.0	7.8	72	wsw.	2.5	1.1			10	sw.		0.165	4.2		Prof. D. Conti.
Cagliari	29.70	754.3	29.89	759.3	52.9	11.6	58	nw.			2		6	w.		0.020	0.5		Prof. A. Pacinotti.
Palermo	29.69	754.1	29.95	760.6	55.0	12.8	69	wsw.	9.8	4.4			10	wsw.		0.063	1.6		Prof. G. Cacciatore
Syracuse	29.93	760.1	29.97	761.3	56.8	13.8	56	s.	16.1	7.2			5	sw.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.36	745.8	29.89	759.3	50.5	10.3	81	sw.	0	0			10	se.		0.354	9.0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.26	768.5	30.29	769.4	28.0	— 2.2	100	se.			4		10k;ks			0.031	0.8	cloudy	H. Hattori.
Awomori	30.23	767.8	30.26	768.6	27.5	— 2.5	75	sw.	11.1	5.0			10ks;s			0.007	0.2	overcast	K. Ogawa.
Hakodate	30.25	768.4	30.26	768.7	30.0	— 1.1	69	wsw.	12.0	5.4			10 s			0	0	overcast	Y. Souma.
Hamamatsu	30.19	766.8	30.29	769.3	41.5	5.3	84	calm			0	0	5 s		w.	0	0	fair	Sekigawa & Yamasaki.
Hiroshima, I. M. Obs'y	30.30	769.7	30.32	770.1	38.7	3.7	89	n.	3.3	1.5		0	1 ck		w.	0	0	clear	Y. Okamoto.
Kagoshima	30.27	768.8	30.28	769.1	53.7	12.1	76	calm			0		10 s			0.087	2.2	overcast	
Kanazawa	30.24	768.0	30.35	770.8	30.7	— 0.7	69	e.	6.9	3.0		0	0			0	0	clear	S. Endo.
Kioto	30.15	765.8	30.32	770.2	31.6	— 0.2	80	nne.	2.3	1.0		0	0			0	0	clear	M. Tojima.
Kochi	30.26	768.7	30.29	769.2	48.9	9.4	88	w.	2.0	0.9		0	6 s			0	0	fair	K. Kusunose.
Miasaka	30.26	768.7	30.29	769.4	51.6	10.9	86	nw.			2		10 s		w.	0.008	0.2	overcast	K. Masusaki.
Miyako	30.18	766.4	30.28	769.2	28.9	— 1.7	55	sw.	1.6	0.7		0	1 s			0	0	clear	N. Homo & K. Suwa.
Nagasaki, I. M. Obs'y	30.07	763.8	30.28	769.1	49.3	9.6	76	calm	0	0			9 s			0.010	0.2	misty	
Nemuro	30.16	766.1	30.21	767.3	14.8	— 9.6	66	calm	0	0		3 k	0			0	0	fair	A Shibuya.
Niigata	30.28	769.1	30.32	770.1	34.2	1.2	78	se.	2.2	1.0			10ks;s		sw.	0	0	covered	Satoo & Tomikawa.
Nobiru	30.29	769.4	30.31	769.8	26.8	— 2.9	95	calm	0	0			3 s			0	0	fair	Yoshino & Midzushina.
Numadzu	30.26	768.6	30.30	769.5	38.7	3.7	67	e.			2	0	3 s			0	0	clear	T. Ohgi.
Osaka	30.31	770.0	30.33	770.4	36.0	2.2	82	ne.	3.0	1.3		0	0			0	0	clear	H. Omura.
Sakai	30.26	768.7	30.27	768.9	39.8	4.3	87	se.			2	0	0			0.051	1.3	clear	Yamawchi & Sakamoto.
Sapporo	30.16	766.1	30.22	767.7	10.0	—12.2	100	sw.	3.1	1.3		0	5 s			0.575	14.6	fair	S. Kimura.
Shimonoseki	30.15	765.8	30.30	769.5	43.8	6.6	77	ene.			1	0	7 s		nw.	0	0	fair	S. Sakano.
Tokei Obs'y, Yeddo	30.24	768.2	30.33	770.2	39.9	4.4	68	ese.	2.0	0.9			10 s			0	0	cloudy	The Staff.
Wakayama	30.26	768.5	30.31	769.9	37.4	3.0	79	calm	0	0		0	0			0	0	clear	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.56	750.8	29.74	755.4	83.4	28.6	60	sse.	14.5	6.5		0	4 kn		s.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.35	618.5	30.29	769.4	39.2	4.0	85	calm	0	0		0	8 ks		sw.	0	0	cloudy	M. Leal & M. Pina.
Mazatlan	29.81	757.2	30.08	764.0	63.0	17.2	78	e.	5.3	2.3		0	1 n		se.	0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.71	754.7	29.71	754.7	43.0	6.1		sw.			5					0	0		
Groningen	29.56	750.7	29.61	752.1	41.2	5.1		sw.								0.035	0.9		
Helder	29.53	750.1	29.53	750.1	43.5	6.4		sw.			6					0.488	12.4		
Hellevoetsluis	29.70	754.4	29.70	754.4	47.3	8.5	85	sw.			5					0.319	8.1		
Utrecht	29.65	753.1	29.71	754.5	42.6	5.9	81	ssw.			5		8			0.067	1.7	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.3			79.3	26.3	88	n.	0	0			8			0.232	5.9		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	28.64	727.5	28.71	729.1	38.5	3.6	60	sw.	27	12			10			0.071	1.8	raining	
Brono	28.44	722.3	28.48	723.3	28.4	— 2.0	72	sse.			4		3			0	0		
Christiania	28.63	727.1	28.77	730.8	38.3	3.5	80	ssw.	25	11			9			0	0		
Gjæsvær	28.72	729.5	28.74	730.1	16.5	— 8.6		s.			4		0			0.079	2.0		
Lodingen	28.60	726.5	28.65	727.7	19.9	— 6.7	52	ne.			4		1			0.059	1.5		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.41	772.3	30.50	774.6	60.8	16.0	69	n.	2.5	1.1			10			0	0		Capt. D. A. de Gunha.
Lisbon, Observatory	29.83	757.6	30.17	766.2	57.6	14.2	85	w.	24.8	11.1			10			0.118	3.0		The Staff.
Ponta Delgada, Azores	30.53	775.5	30.60	777.3	63.0	17.2	76	nw.	9.8	4.4			3			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.08	764.1	30.12	765.1	68.0	20.0	62	e.			6		3			0	0		
San Salvador, Congo	28.08	713.2	29.90	759.4	82.6	28.1	62	sw.			1		10			0	0		
Serra da Estrella	25.22	640.7	30.02	762.0	40.6	4.8	100	w.			5		10			1.764	44.8	rain & fog	
RUSSIAN.																			
Akmolinski	28.58	725.8	29.71	754.5	24.1	— 4.4	100	ssw.	7	3			10 n			0.008	0.2		Major K. Lasarew.
Archangel	28.83	732.3	28.85	732.8	22.3	— 5.4	98	sw.	9	4			10			0.079	2.0	snowing	Capt. Sseliwerstow
Ashurada	30.36	771.1	30.26	768.7	52.0	11.1	60	nne.	7	3		0	0			0	0		
Astrakhan	30.01	762.3	29.93	760.3	39.0	3.9	69	sw.	13	6			9 s			0	0		Capt. Wisganow.
Baku	30.08	764.1	30.04	762.9	50.7	10.4	42	wsw.	9	4		0	0			0	0		
Barnaul	29.44	747.8	29.98	761.6	10.2	—12.1	78	calm	0	0			10			0	0		Meteorological Office.
Bielosersk	28.80	731.4	29.28	743.8	18.7	— 7.4	87	w.	11	5			10 ks			0.004	0.1		
Dorpat	29.20	741.7	29.45	748.1	27.5	— 2.5	77	sw.	13	6		c	10 ks			0.004	0.1		Observatory.
Ekaterinburg	28.41	721.6	29.42	747.3	16.2	— 8.8	91	se.	11	5			10 n			0	0		Meteorological Obs'y.
Elisawetgrad	29.37	746.1	29.84	757.9	36.7	2.6	69	w.	18	8		9 cs	0			0	0	light clouds	
Kasan	28.78	730.9	29.05	737.9	28.2	— 2.1	96	ssw.	27	12			10			0	0		Observatory.
Kem	29.01	736.9	29.06	738.2	10.8	—11.8	82	w.	18	8		0	1 s			0	0		
Kertch	29.88	759.0	29.91	759.6	51.1	10.6	75	calm	0	0		0	8 k			0	0		Lagorio & Sastyres.
Kieff	28.97	735.7	29.62	752.3	34.0	1.1	89	w.	18	8			10 n			0.035	0.9	snowing	Observatory.
Koslov	28.99	736.3	29.51	749.5	28.2	— 2.1	70	wnw.	7	3		0	7 s			0	0		
Lgov	29.02	737.0	29.61	752.2	34.2	1.2	92	sw.	13	6		0	7			0.059	1.5	rain & snow	R. I. Ssaweljew, Engin'r.
Libau	29.53	750.0	29.55	750.6	37.0	2.8	79	wsw.	16	7			5			0	0		L. Quasa.
Lugan	29.55	750.6	29.70	755.9	38.5	3.6	70	wsw.	13	6			10			blank	blank		Meteorological Obs'y.
Moscow	28.96	735.6	29.47	748.5	17.1	— 8.3	82	n.	4	2		0	0			0	0		Meteorological Obs'y.
Nertschinsk	27.84	707.1	30.50	774.8	—18.0	—27.8	87	calm	0	0			0			0	0		

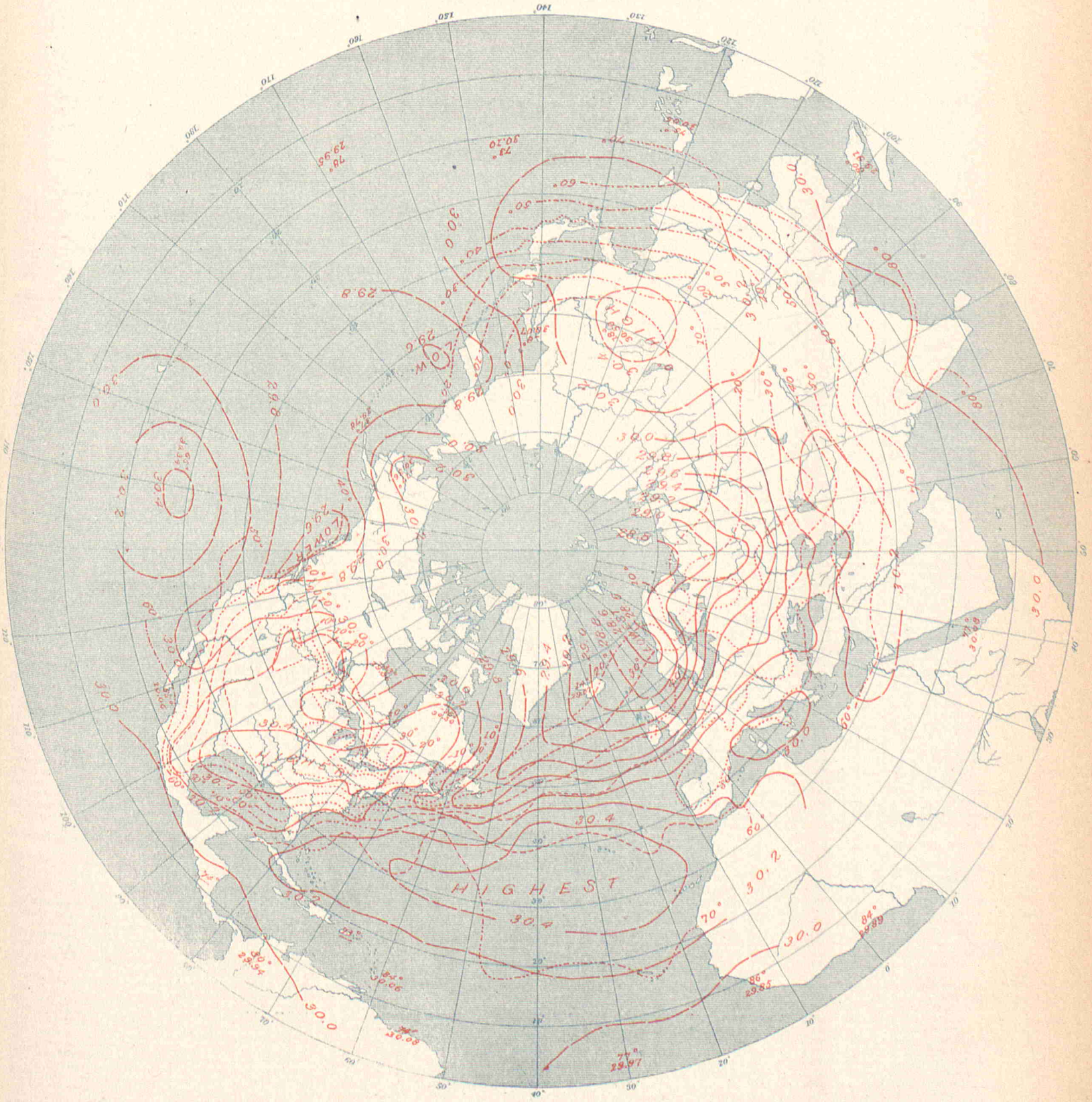
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaiev	29.84	757.8	29.91	759.6	38.8	3.8	82	sw.	13	6	.....	.....	10 n	.....	.....	0	0	light clouds	Capt. Kurdakow.
Nikolcievsk-on-the-Amoor.	29.98	761.5	30.07	763.7	— 7.8	—22.1	78	calm	0	0	.....	1 c	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.22	767.6	30.36	771.2	22.8	— 5.1	85	nw.	2.2	1.0	.....	0	6 k	.....	.....	0	0	.....	Physical Observatory
Petro-Alexandrovsk	29.98	761.4	30.35	770.9	32.0	0.0	73	calm	0	0	.....	0	4 ks	.....	.....	.....	.....	.....	
Petrozavodsk	29.02	737.1	29.23	742.4	12.4	—10.9	79	wsw.	11	5	.....	0	5 ks	.....	.....	0.071	1.8	.....	Dr. Bergmann.
Pinsk	29.22	742.3	29.74	755.4	27.3	— 2.6	96	nw.	13	6	.....	.....	10 n	.....	.....	0.154	3.9	snowing	
Poti	30.12	765.0	30.15	765.8	49.0	9.8	89	ne.	4	2	.....	0	6 ks	.....	.....	0.067	1.7	.....	
St. Petersburg	29.37	745.9	29.39	746.5	21.4	— 5.9	74	ssw.	11	5	.....	c;cs	10 s;n	.....	.....	0	0	light clouds	Central Physical Obs'y.
Samarkand	27.71	703.7	30.26	768.7	39.2	4.0	74	nw.	3.4	1.5	.....	6 ck	0	.....	.....	.....	.....	.....	
Semipalatinsk	29.32	744.7	30.02	762.6	19.6	— 6.9	92	calm	0	0	.....	.....	7	.....	.....	0.043	1.1	.....	Major Lasarew
Sevastopol	29.74	755.3	29.95	760.8	48.0	8.9	81	wsw.	16	7	.....	5 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	29.08	738.6	29.66	753.4	22.5	— 5.3	73	e.	4	2	.....	9 cs	0	.....	.....	0.039	1.0	light clouds	
Tashkend, Laboratory	28.54	725.0	30.30	769.5	35.4	1.9	90	w.	7	3	.....	.....	9 n	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	28.71	729.3	30.16	766.1	47.7	8.7	52	nw.	2	1	.....	.....	10 k	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.50	698.6	30.10	764.5	34.5	1.4	88	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	
Viatka	28.38	720.8	29.03	737.3	21.2	— 6.0	97	sse.	7	3	.....	.....	10	.....	.....	0	0	.....	
Vladivostock	30.24	768.0	30.30	769.7	12.0	—11.1	50	n.	13	6	.....	0	3 k	.....	.....	0	0	.....	
Warsaw	29.43	747.4	29.86	758.5	33.4	0.8	80	w.	16	7	.....	.....	10 kn	.....	.....	0	0	h'vy clouds.	Astronomical Obs'y.
Yeniseisk	29.86	758.4	30.19	766.9	5.4	—14.8	85	w.	2	1	.....	.....	10	.....	.....	blank	blank	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.91	734.3	29.48	748.8	15.2	— 9.3	66	wnw.	15	6.7	.....	0	1 s	.....	.....	0	0	clear	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.7	30.06	763.5	51.4	10.8	69	wsw.	.....	.....	.....	2 c	0	.....	.....	0.106	2.7	.....	B. J. Elin.
Bilbao, Met. Obs'y	30.08	764.0	30.14	765.5	51.3	10.7	76	s	0.9	0.4	.....	2	3	n.	.....	0.850	21.6	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.10	688.4	30.18	766.5	39.2	4.0	78	s.	3.1	1.4	.....	.....	9	.....	.....	0	0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.88	708.2	30.17	766.2	47.3	8.5	69	s.	3.8	1.7	.....	.....	10	.....	.....	0	0	covered	The Staff.
Murcia, Met. Obs'y	29.96	761.0	30.12	765.0	59.2	15.1	58	wnw.	2.2	1.0	.....	4	5	w.	.....	0.512	13.0	covered	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.13	740.0	30.05	763.2	47.7	8.7	83	n.	2.5	1.1	.....	.....	10	.....	.....	0.024	0.6	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.07	763.7	30.13	765.4	69.9	21.1	91	sse.	0.7	0.3	.....	1 ck	4 k;s	ssw.	s.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	30.01	762.2	30.06	763.6	75.2	24.0	82	ne.	1.1	0.5	.....	0	1 ks	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.18	766.6	30.28	769.1	58.6	14.8	84	w.	10.8	4.8	.....	.....	10	.....	w.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	29.887	758.97	29.977	761.27	73.0	22.8	97	calm	0	0	.....	0	6 kn	.....	e.	0.193	4.9	cloudy	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	28.96	735.5	29.00	736.5	6.4	—14.2	100	se.	.....	.....	4	.....	5	.....	.....	0.047	1.2	.....	
Umea	28.89	733.7	28.94	735.0	13.3	—10.4	93	sw.	.....	.....	2	.....	6	.....	.....	0.224	5.7	.....	
Hernosand	28.86	733.0	28.91	734.3	18.7	— 7.4	83	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Stockholm	28.98	730.0	29.15	740.5	33.8	1.0	81	ssw.	.....	.....	4	.....	9	.....	.....	0	0	.....	
Wisby	29.32	744.6	29.37	746.1	35.6	2.0	75	sw.	.....	.....	6	.....	7	.....	.....	0	0	.....	
Sub-series.																			
Upsala	28.99	736.4	29.08	738.6	32.2	0.1	80	ssw.	15.9	7.1	.....	.....	10	.....	sw.	0.106	2.7	.....	H. H. Hildebrandesson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.01	762.2	53.4	11.9	61	sw.	11	5.0	.....	.....	10	.....	sw.	0.047	1.2	raining	The Observatory.
Valona	.....	.....	29.99	761.7	59.2	15.1	.....	s.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.28	769.0	57.0	13.9	61	ne.	.....	.....	1	9 c	0	sw.	.....	0	0	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.34	770.6	30.43	772.9	7	—13.9	52	nw.	8	3.6	.....	7 cs	3 s	nw.	nw.	0.45	11.4	cloudy	J. O. Barnes.
Alpena, Michigan	29.85	753.1	30.36	771.1	— 7.8	—22.1	53	s.	1	0.4	.....	6 k	3 s	w.	w.	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.91	633.5	30.06	763.5	21.0	— 6.1	76	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	30.18	766.6	5.0	—15.0	76	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. Newman.
Atlanta, Georgia	29.10	739.1	30.33	770.4	21.0	— 6.1	84	nw.	16	7.2	.....	0	6 s	.....	w.	0.01	0.3	fair	S. W. Beall.
Atlantic City, New Jersey	30.26	768.6	30.27	768.8	21.5	— 5.8	70	w.	12	5.4	.....	.....	10 n	.....	.....	1.60	40.6	light rain	B. A. Blundon.
Augusta, Georgia	30.11	764.8	30.31	769.9	38	3.3	77	w.	5	2.2	.....	10 ck	0	sw.	.....	0.34	8.6	cloudy	W. J. Evans.
Baltimore, Maryland	30.33	770.4	30.38	771.6	24	— 4.4	61	n.	9	4.0	.....	.....	10 s	.....	n.	0.58	14.7	cloudy	Geo. W Felger.
Barnegat City, New Jersey	30.28	769.1	30.30	769.6	20.1	— 6.6	70	n.	23	10.3	.....	.....	10 s	.....	n.	0.34	8.6	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.50	723.9	30.24	768.1	19.0	— 7.2	87	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.15	689.6	30.13	765.3	2.0	—16.7	48	calm	0	0	.....	0	0	.....	.....	0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.25	717.5	30.25	768.3	13.0	—10.6	83	n.	1	0.4	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.14	765.5	30.17	766.3	29.0	— 1.7	88	nw.	19	8.5	.....	.....	10 s	.....	w.	1.11	28.2	cloudy	J. T. Elker.
Boise City, Idaho	27.12	688.8	30.05	763.3	19	— 7.2	91	w.	2	0.9	.....	2 k	0	.....	.....	0	0	clear	James Kenealy.
Boston, Massachusetts	30.01	762.2	30.18	766.6	25.0	— 3.9	64	nw.	17	7.6	.....	.....	10 s	.....	.....	0.52	13.2	cloudy	O. B. Cole.
Brownsville, Texas	30.41	772.4	30.47	773.9	30.2	— 1.0	57	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	John McGlone.
Buffalo, New York	29.71	754.6	30.50	774.7	—11	—23.9	82	sw.	7	3.1	.....	0	0	.....	.....	0.22	5.6	clear	Wm. Finn.
Buford, Fort, Dakota	28.03	711.9	30.26	768.6	17	— 8.3	83	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	A. Schneider.
Cairo, Illinois	30.13	765.3	30.55	776.0	11.0	—11.7	80	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.37	746.0	29.57	751.1	38.2	3.4	88	se.	37	16.5	.....	.....	10 n	.....	.....	0.20	5.1	light rain	J. H. Young.
Cape Henry, Virginia	30.20	767.1	30.22	767.6	33.0	0.0	100	s.	28	12.5	.....	.....	10 n	.....	.....	0.87	22.1	light rain	A. K. Alderson.
Cape May, New Jersey	30.27	768.8	30.30	769.6	25.0	— 3.9	88	nw.	28	12.5	.....	.....	10 s	.....	.....	0.39	9.9	cloudy	W. E. Smith.
Cape Mendocino, California	29.23	742.4	29.93	760.2	44	0.7	93	nw.	46	20.6	.....	.....	10 n	.....	.....	0.07	1.0	light rain	A. P. Leavitt.
Cedar Keys, Florida	30.25	768.3	30.27	768.8	47.0	8.3	100	nw.	13	5.8	.....	.....	10 n	.....	nw.	1.15	29.2	light rain	G. W. Davis.
Charleston, S. Carolina	30.11	764.8	30.17	766.3	49.0	9.4	100	nw.	3	1.3	.....	.....	10 n	.....	.....	0.50	12.7	light rain	J. H. Smith.
Charlotte, N. Carolina	29.35	745.5	30.24	768.1	37.0	2.8	81	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.30	7.6	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.54	750.3	30.40	772.1	19.5	— 6.9	70	nw.	7	3.1	.....	9 ck	0	n.	.....	0.02	0.5	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.96	608.6	30.22	767.6	12.1	—11.1	70	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.66	753.4	30.40	772.1	4.5	—15.3	74	sw.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.26	768.6	30.28	769.1	28.3	— 2.1	65	n.	23	10.3	.....	.....	10 ks	.....	sw.	0.54	13.7	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.86	758.4	30.54	775.7	3.7	—15.7	85	se.	1	0.4	.....	.....	fg.	.....	se.	0.02	0.5	dense fog	L. Dunne.
Cleveland, Ohio	29.70	754.4	30.48	774.2	2.5	—16.4	87	sw.	6	2.7	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	W. Line.
Columbus, Ohio	29.61	752.1	30.51	774.9	— 4	—20.0	81	nw.	2	0.9	.....	0	0	.....	.....	0.16	4.1	clear	F. T. Williams.
Concho, Fort, Texas	28.35	720.1	30.37	771.4	20.1	— 6.6	91	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. E. King.
Custer, Fort, Montana	26.85	682.0	30.23	767.8	2	—16.7	75	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. J. Daily.
Davenport, Iowa	29.64	752.8	30.35	770.9	8.5	—13.1	54	sw.	14	6.3	.....	2 cs	hz.	w.	.....	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	30.24	768.1	23.0	— 5.0	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.17	715.5	29.98	761.5	20.0	— 6.7	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	H. S. Blandford.
Deadwood, Dakota	25.34	643.6	30.29	769.4	14.2	— 9.9	80	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Delaware Breakwater, Del.	30.28	769.1	30.30	769.6	24.2	— 4.3	100	nw.	32	14.3	.....	.....	10 n	.....	nw.	0.59	15.0	light snow	G. A. Martin.
Denver, Colorado	24.71	627.6	30.23	767.8	18.5	— 7.5	62	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. M. Neat.
Des Moines, Iowa	29.28	743.7	30.25	768.3	12	—11.1	61	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.75	755.6	30.51	774.9	— 1.0	—18.3	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Dodge City, Kansas	27.52	699.0	30.27	768.8	14	—10.0	73	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.55	750.6	30.32	770.1	5.2	—14.9	93	s.	5	2.2	.....	0	8 s	.....	se.	0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.26	743.2	30.08	764.0	7.0	—13.9	87	calm	0	0	.....	.....	10 n	.....	.....	0.15	3.8	light snow	E. R. Brace.
Eastport, Maine	30.05	763.3	30.12	765.0	8.0	—13.3	64	n.	20	8.9	.....	.....	10 s	.....	n.	0.84	21.3	cloudy	D. O. Murphy.
Elliott, Fort, Texas	27.36	694.9	30.28	769.1	11.3	—11.5	100	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.33	668.8	30.21	767.3	23.5	— 4.7	88	calm	0	0	.....	0	1 s	.....	se.	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.73	755.1	30.50	774.7	— 5.8	—21.0	78	sw.	5	2.2	.....	0	0	.....	.....	0.08	2.0	clear	C. A. Shaw.
Escanaba, Michigan	29.53	750.0	30.25	768.3	— 4.0	—20.0	74	s.	10	4.5	.....	10 ck	0	sw.	.....	0	0	cloudy	L. M. Pindell.
Fort Smith, Arkansas	30.01	762.2	30.51	774.9	12.5	—10.8	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Galveston, Texas	30.44	773.2	30.48	774.2	23.5	— 4.7	61	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	E. O'C. Macline rney
Grand Haven, Michigan	29.65	753.1	30.36	771.1	15.5	— 9.2	74	s.	20	8.9	.....	.....	10 s	.....	s.	inap.	inap.	threatening.	Joseph E. Mueller
Grant, Fort, Arizona	25.15	638.8	30.05	763.3	31.5	— 0.3	79	nw.	8	3.6	.....	0	8 s	.....	nw.	0	0	cloudy	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.17	766.3	30.18	766.6	43.4	6.3	100	ne.	20	8.9			10 s		ne.	0.32	8.1	cloudy	R. M. Crawford.
Helena, Montana	25.83	656.1	30.21	767.3	7.1	—13.8	80	n.	1	0.4		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	28.65	727.7	30.19	766.8	22.6	— 5.2	80	nw.	11	4.9			10 n			inap.	inap.	light snow	S. W. Glenn.
Indianapolis, Indiana	29.63	752.6	30.47	773.9	3.0	—16.1	72	n.	1	0.4		0	sk.			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.47	773.9	30.50	774.7	25.0	— 3.9	70	n.	18	8.0		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	30.18	766.6	30.23	767.8	57.0	13.9	96	nw.	1	0.4			10 n			1.21	30.7	light rain	J. W. Smith
Keokuk, Iowa	29.68	753.9	30.38	771.6	9.0	—12.8	65	s.	13	5.8		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	71	21.7	87	se.	3	1.3		2 cs	1 k	sw.	se.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.23	767.8	30.25	768.3	38.0	3.3	94	ne.	38	17.0			10 n			0.42	10.7	heavy rain	Wesley Blake.
Knoxville, Tennessee	29.32	744.7	30.40	772.1	17.6	— 8.0	89	n.	6	2.7			10 s			0.14	3.6	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.42	747.3	30.26	768.6	10	—12.2	80	s.	8	3.6			10 s			0	0	cloudy	S. C. Emery
Leavenworth, Kansas	29.40	746.7	30.36	771.1	13.2	—10.4	73	s.	6	2.7		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.07	738.4	29.94	760.5	21.0	— 6.1	58	ne.	4	1.8			10 s			0	0	cloudy	O. E. Butler.
Little Rock, Arkansas	30.17	766.3	30.50	774.7	17.0	— 8.3	73	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.53	750.0	29.93	760.2	45.5	7.5	80	ne.	12	5.4		0	0			0	0	clear	T. S. Collins
Louisville, Kentucky	29.91	759.7	30.50	774.7	6.2	—14.3	61	n.	5	2.2		0	0			inap.	inap.	clear	L. M. Dey.
Lynchburg, Virginia	29.56	750.8	30.28	769.1	32.0	0.0	60	nw.	5	2.2			10 s		ne.	0.54	13.7	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.58	751.3	30.28	769.1	5.5	—14.7	63	s.	6	2.7		0	8 s		sw.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.17	766.3	30.18	766.6	51.8	11.0	100	w.	5	2.2			10 s		w.	0.32	8.1	cloudy	William Daly.
Maginnis, Fort, Montana	25.43	645.9	30.20	767.1	14.7	— 9.6	51	w.	5	2.2		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.40	746.7	30.18	766.6	1.5	—16.9	56	se.	6	2.7		0	7 s		se.	0	0	fair	J. Gilligan.
Memphis, Tennessee	30.17	766.3	30.53	775.4	12.0	—11.1	80	ne.	2	0.9		0	0			0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.56	750.8	30.36	771.1	1.1	—17.2	79	sw.	9	4.0			10 s			0	0	cloudy	S. W. Rhode.
Mobile, Alabama	30.39	771.9	30.43	772.9	25	— 3.9	74	n.	15	6.7			10 s			0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.20	767.1	30.44	773.2	22	— 5.6	73	nw.	10	4.5			10 s		nw.	0.01	0.3	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.05	737.9	30.16	766.1	0	—17.8	100	n.	20	8.9			10 s		n.	0.20	5.1	cloudy	H. Bessant.
Mt. Washington, N. H.	23.56	598.4	30.19	766.8	12.8	—10.7	72	nw.	12	5.4			fg.			0.10	2.5	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.89	759.2	30.50	774.7	5.0	—15.0	82	nw.	4	1.8		0	0			0.01	0.3	clear	L. N. Jesunofsky
New Haven, Connecticut	30.13	765.3	30.25	768.3	14	—10.0	71	n.	14	6.3			10 s		nw.	1.00	25.4	cloudy	J. H. Sherman.
New London, Connecticut	30.18	766.6	30.24	768.1	21.8	— 5.7	81	n.	10	4.5			10 s		n.	1.03	26.2	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.40	772.1	30.46	773.7	30.7	— 0.7	62	n.	8	3.6			10 ks		n	inap.	inap.	cloudy	M. Herman.
New York, New York	30.12	765.0	30.31	769.9	17.5	— 8.1	67	nw.	7	3.1			10 s			1.10	27.9	cloudy	H. J. Penrod.
Norfolk, Virginia	30.23	767.8	30.26	768.6	33.2	0.7	87	n	7	3.1			10 n		n.	0.76	19.3	light rain	Wm. Davis.
North Platte, Nebraska	27.19	690.6	30.31	769.9	11.2	—11.6	72	nw.	5	2.2		0	0			0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	29.79	756.7	29.83	757.7	32.0	0.0	88	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.00	736.6	30.27	768.8	13.0	—10.6	70	s.	3	1.3		0	0			0	0	clear	A. Rollak
Oswego, New York	30.09	764.3	30.44	773.2	6.4	—14.2	87	se.	4	1.8			10 n			0.49	12.4	light snow	J. G. Linsley.
Palestine, Texas	29.93	760.2	30.51	774.9	17.5	— 8.1	52	nw.	4	1.8		0	0			0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.38	771.6	30.41	772.4	26.4	— 3.1	61	n.	9	4.0			10 s		n.	0.12	3.0	cloudy	M. McGauran.
Philadelphia, Pa.	30.24	768.1	30.35	770.9	17.7	— 7.9	72	nw.	14	6.3		4 ck	4 s	sw.	sw.	0.76	19.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.56	416.0	30.26	768.6	2.0	—16.7	83	w.	32	14.3		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.62	752.3	30.47	773.9	1.5	—16.9	100	nw.	3	1.3			fg.			0.32	8.1	dense fog	O. D. Stewart
Poplar River, Montana					13.2	—10.4	100	ne.			1		fg.			0	0	dense fog	G. A. Garden.
Port Huron, Michigan	29.71	754.6	30.44	773.2	— 9.3	—22.9	74	calm	0	0		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.10	764.5	30.15	765.8	21.0	— 6.1	70	ne.	16	7.2			10 s		ne.	0.72	18.3	cloudy	W. W. Eichelberger.
Portland, Oregon	29.71	754.6	29.78	756.4	28.4	— 2.0	90	se.	6	2.7			10 n			0.08	2.0	light snow	M. L. Hearne.
Prescott, Arizona	24.67	626.6	30.05	763.3	24.8	— 4.0	81	w	2	0.9		0	4 s			0	0	fair	N. D. Lane.
Provincetown, Mass.	30.10	764.5	30.13	765.3	30.6	— 0.8	88	n	9	4.0			10s;hz		n.	0.98	24.9	cloudy	O. N. Kitchel.
Red Bluff, California	29.56	750.8	29.93	760.2	42.5	5.8	88	n.	2	0.9			10 n			inap.	inap.	light rain	J. R. Williams.
Rio Grande City, Texas	30.29	769.4	30.54	775.7	26.0	— 3.3	64	nw.	5	2.2		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y.	29.73	755.1	30.44	773.2	2	—16.7	72	w.	18	8.0			10 s			0.50	12.7	cloudy	E. W. McGann.
Roseburg, Oregon	29.21	741.9	29.78	756.4	35.2	1.8	91	n.	2	0.9			10 n		w.	0.12	3.0	light rain	J. J. Naury.
Sacramento, California	29.86	758.4	29.94	760.5	43.0	6.1	93	s.	9	4.0			10 s		sw.	0	0	cloudy	J. A. Barwick
St. Louis, Missouri	29.85	758.2	30.51	774.9	15.5	— 9.2	75	se.	7	3.1		0	sk.			inap.	inap.	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.32	770.1	30.36	771.1	—17	—27.2	100	ne.			2	5 cs	0	ne.		0	0	fair	Fred. H. Clarke
St. Paul, Minnesota	29.15	740.4	30.09	764.3	12.0	—11.1	100	s.	7	3.1			10 s		s.	0.01	0.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.24	742.7	30.22	767.6	7.8	—13.4	89	n.	17	7.6			10 s			0	0	cloudy	O. B. Dilley.
Salt Lake City, Utah	25.57	649.5	30.14	765.5	17	— 8.3	56	se.	2	0.9		0	0			0	0	clear	J. Craig.
San Diego, California	29.83	757.7	29.90	759.4	49.0	9.4	40	ne.	7	3.1		3 cs	0			0	0	clear	F. R. Day.
Sandusky, Ohio	29.79	756.7	30.51	774.9	— 3	—19.4	65	sw.	3	1.3		0	0			0.01	0.3	clear	B. F. Hough.
Sandy Hook, New Jersey	30.29	769.4	30.32	770.1	17.8	— 7.9	53	nw.	20	8.9		10 ck	0			0.88	22.4	cloudy	V. P. Chappel.
Sanford, Florida	30.12	765.0	30.16	766.1	59.0	15.0	90	n.	3	1.3			10 ks		n	0.08	2.0	cloudy	J. B. Marbury
San Francisco, California	29.88	758.9	29.95	760.7	49.2	9.6	91	nw.	6	2.7			10s;fg		sw; w.	0	0	cloudy	N. Gorom.
Savannah, Georgia	30.13	765.3	30.23	767.8	45	7.2	88	nw.	8	3.6			10 s		nw.	0.83	21.1	threatening	R. M. Geddings.
Shaw, Fort, Montana	26.29	667.8	30.15	765.8	12	—11.1	83	sw.	1	0.4		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.26	768.6	30.51	774.9	15.5	— 9.2	66	nw.	3	1.3		0	0			0	0	clear	E. N. Meekins.
Sitka, Alaska	29.48	748.8	29.55	750.6	39.6	4.2	73	e.	4	1.8			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smithville North Carolina	30.15	765.8	30.19	766.8	53.0	11.7	100	w.	4	1.8			10 n		sw.	0.17	4.3	light rain	O. Parker.
Spokane Falls, Wash. Ter.	27.79	705.9	29.93	760.2	19	— 7.2	78	calm	0	0		8 ck	0			inap	inap.	cloudy	D. Moore.
Springfield, Illinois	29.74	755.4	30.47	773.9	11.8	—11.2	82	s.	8	3.6		0	0			0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.13	689.1	30.27	768.8	26.5	— 3.1	82	s.	4	1.8		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.62	752.3			37.5	3.1	92	e.	22	9.8			10 n		e.	0.52	13.2	light rain	R. Connor.
Thomas, Camp, Arizona	27.27	692.6	30.10	764.5	32.5	0.3	71	calm			0		10 s		n.	0	0	cloudy	R. C. Lord.
Toledo, Ohio	29.74	755.4	30.48	774.2	— 6	—21.1	86	w.	4	1.8		0	sk.			0	0	clear	A. Buell.
Unalaska, Alaska	29.76	755.9	29.78	756.4	37	2.8	72	s.	10	4.5		0	0			0.13	3.3	clear	Samuel Applegate.
Vicksburg, Mississippi	30.25	768.3	30.52	775.2	22.0	— 5.6	73	n.	4	1.8		0	9 s		n.	0	0	cloudy	C. Dill.
Washington, D. C.	30.29	769.4	30.41	772.4	19.4	— 7.0	70	nw.	8	3.6			10 s		nw.	0.71	18.0	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.10	662.9	30.23	767.8	13	—10.6	83	nw.	6	2.7		0	2 s		w.	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.13	765.3	30.19	766.8	54.5	12.5	93	w.	3	1.3			10 n			0.28	7.1	heavy rain	L. H. Albrecht.
Yankton, Dakota	28.78	731.0	30.20	767.1	19.6	— 6.9	59	w.	11	4.9		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.73	755.1	29.88	758.9	50.5	10.3	32	ne.	3	1.3		0	7 s		w.	0	0	fair	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.56	750.8	29.58	751.3	23.8	— 4.6	82	n	20	8.9			10 n			0	0	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.					74	23.3		n.			2	0	8 n		ne.	0.25	6.3	cloudy	W. H. Jackson.
Bogota, U. S. O.	21.98	558.2			50.0	10.0	89	s.	2	1			fg.			0	0		Joaquin Gomez.
Chimo, Fort, Ungava	30.14	765.5	30.30	769.6	—36	—37.8	100	s.	22	9.8		0	0			inap.	inap.	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.11	764.8	73.2	22.9	74	n.	2	0.9		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	74	23.3	95	e.			3		10 n		e.	0.910	23.1	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. O.	29.38	746.2	29.94	760.5	80	26.7	85	calm			0		10 ks		calm	blank	blank	cloudy	Francisco J. Olsner.
Rivas, Nicaragua, C. A.					73.8	23.2	91	ne.			2					0	0	clear	Earl Flint.
York Factory, B. A.	29.79	756.7	29.86	758.4	—33.0	—36.1		n.	14	6.3		1 c	0	n.		0	0		Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.89	759.2	29.90	759.5	77.4	25.2	88	n.	9.4	4.2		0	4 k		n.			fair	P. Fasiani.
Naôs, Bay of Panama	29.87	758.8	29.94	760.5	73.4	23.0	91	wnw.			3	0	1 k		n.			clear	Antonio Fabre.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 43° 35′, W. 40° 58′ †	30.50	774.7				ssw.			5		3		sw.	0	0	mod.	sw.	clear.
S. S. Alleghany, Boston, Mass†	30.17	766.3	26	— 3.3		nw.			1		10		n.	12 h'r	12 h'r			cloudy.
Schr. Anna A. Holton, N. 38° 06′, W. 73° 15′ *†	30.20	767.1	42	5.6		n.			6		10		n.	7 h'r	7 h'r	r'gh		cloudy.
S. S. Alps, N. 28° 13′, W. 68° 06′			75	23.9		se.			2		1		se.	0	0		se.	fine.
S. S. British Prince, N. 45° 20′ W. 53° 10′			44	6.7		sw.			6		10		wsw.	9 h'r	9 h'r	h'vy	sw.	overcast.
S. S. City of Augusta, Savannah, Ga						nne.			4		10		se.	0	0			cloudy.
S. S. Canada, (Fr) N. 49° 49′, W. 11° 18′	29.77	756.1	50.0	10		w.			6		k		w.	0	0	hv'y	w.	cloudy.
S. S. Denmark, N. 40° 40′, W. 72° 30′ †	30.16	766.1	26	— 3.3	100	nw.			6		8		nw	0	0	long	se.	cloudy.
S. S. Daniel Steinmann, N. 44° 52′, W. 61° 55′ †	29.97	761.2	18	— 7.8		nnw.			5		9		nw.	10 h'r	10 h'r	h'vy	ssw.	clearing.
S. S. France, N. 41° 59′, W. 62° 20′	30.06	763.5				wsw.			4		9		w.	rain	rain	h'vy	s.	gloomy.
S. S. Gen. Werder, N. 46° 24′, W 42° 54′	30.18	766.6				sw.			8		9		wsw.	0	0	cross	sw	clearing.
S. S. Iowa, off Tuskar, Ireland †	29.49	749.0	45	7.2		wsw.			5		9		wsw.	4 h'r	4 h'r	mod.	wsw.	squally.
S. S. Llandaff City, N. 42° 51′. W. 60° 10′*†	30.00	762.0	52	11.1		ssw.			6		10		w.	8 h'r	8 h'r	high	con	foggy.
S. S. Lessing, N. 40° 11′, W. 70° 05′			39	3.9		nw.			3		10		w.	16 h'r	16 h'r	r'gh	ssw.	sprinkling.
S. S. Mentmore, Cape Henry, Va						nw.			6		10			6 h'r	6 h'r			gloomy.
S. S. New York, N 34° 55′ W. 75° 00′ *†	30.26	768.6	54	12.2		n			6		10		n.			high	n.	cloudy.
S. S. Nova Scotian, N. 39° 29′, W. 63° 00′	30.15	765.8	68	20.0		ssw.			5		10		sw.			mod.	sw.	cloudy.
S. S. Nurnberg, N. 37° 03, W. 75° 30′	30.30	769.6	32.9	0.5		n.			5		10		n.	18 h'r	18 h'r	sm'h	n.	overcast.
S. S. Pavonia, N. 47° 36′, W. 35° 43′	30.15	765.8	55	12.8	80	wsw.			7		6		wsw.	1 h'r	1 h'r	r'gh	wsw.	fair.
S. S. Picqua, Boston, Mass			29	— 1.7		nnw.			2		10			0	0			overcast.
S. S. Rhein, N. 40° 34′, W. 68° 59′						var.			4–6		8		n.	4 h'r	4 h'r	high	w.	rainy.
S. S. Romano, New York Harbor, N. Y			18	— 7.8		n			3		5		n.	0	0			fair.
Bk. Rosina, N. 38° 40′, W. 73° 14′	30.19	766.8	50	10.0		n.			6		10		n.	12 h'r	12 h'r	rg'h	s.	stormy.
Bgt. Sunlight, N. 29° 53′, W. 72° 45′ †	30.30	769.6				sse.			3		2		sse.	0	0	mod	se.	clear
S. S. Thingvalla, N. 44° 34′, W. 54° 10′†	29.88	758.9	44.6	7		wsw.			6		10		w.	6 h'r	6 h'r	h'vy	w.	raining.
S. S. Valencia, N. 14° 16′, W. 68° 54′ †	30.05	763.3	81	27.2	78	ene.			5		3		e.	0	0	h'vy	e.	clear.
S. S. Westphalia, New York, N. Y	30.27	768.8	16	— 8.9	83	n.			2		9			16 h'r	16 h'r			cloudy.
S. S. Zaandam, N. 42° 27′, W 59° 30′	30.01	762.2	63.7	17.6	83	sw.			6		9		w.	7 h'r	7 h'r	h'vy	sw.w	hazy.
Bk. Ariadne, New York, N. Y	30.29	769.4	18	— 7.8		n.			1		6		n.	14 h'r	14 h'r			fair.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I †	30.23	767.8	71	21.7		calm			0		10		se.	0	0			cloudy.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.11	764.8				sw.			1		10		calm	0	c	sm'h		foggy.
Bk. Aureola, N. 21° 28′, W. 62° 26′†	30.18	766.6	86	30.0		ne.			6		3		ene.	0	0	h'vy	ene.	clear.
U. S. S. Alliance, St. Nicholas, Hayti, W. I	30.12	765.0	72	22.2	85	ese.			2		0			0	0	sm'h		clear.
S. S. British Princess, N. 51° 24′, W. 9° 45′†	29.57	751.1	47	8.3		w			7		10 n		w	0	0	h'vy	w.	threatening.
S. S. Chalmette, New York, N. Y †	30.26	768 6	17	— 8.3		nw.			6					12 h'r	12 h'r			clear
S. S Donau, N. 49° 29′, W. 12° 45′	29.87	758 7	50.9	10.5		w			6–7		6		w.	3 h'r	3 h'r	high	wnw.	squally.
S. S. England, off Kinsale, Ireland						wnw.			6		8		wnw			sm'h		squally.
Schr. Ellen Crusoe, N. 35° 45′ W. 72° 55′ *†	30.20	767.1				n.							n.	8 h'r	8 h'r	long		raining.
Bg. George, N. 22° 42′. W. 68° 55′ *†	30.22	767.6				se.			5		2		se.	0	0	r'gh	ese.	squally.
S. S. Grecian, Havre, France	29.83	757.7	45	7.2	83	sw.			4		0			0	0			clear.
S. S. Holland, N. 49° 51′. W. 21° 33′*	29.76	755.9	40	4.4		wsw.			6		10		wsw.	3 h'r	3 h'r	r'gh	w.	cloudy.
Bg. John Welsh, jr, Mobile, Ala	30.44	773.2				n.			6		0							clear.
S. S. Lone Star, N. 35° 26′, W. 75° 15′*†	30.18	766.6				n.			4		10		n.	12 h'r	12 h'r	rg'h	cross	drizzling.
S. S. Muriel, Martinique, W. I	30.08	764.0	79	26.1		ene.			4		0			rain	rain	sm'h		clear.
S. S. Ontario, N. 48° 28′, W. 40° 30′	29.93	760.2	49	9.4		wsw.			9		10		wsw.	4 h'r	4 h'r	r'gh	wsw.	overcast.
S. S. Orinoco, New York. N.Y			22	— 5.6		nnw.			4		9		wnw.	10 h'r	10 h'r	light	ese.	fine.
Bk. Saga, N. 32° 20′, W. 72° 05′ *†	30.27	768.8	71	21.7		var.			5		6		var.	1¼ hr	1¼ hr	mod.		fair.
S. Storm King, N. 51° 13′, W. 9° 24′ *†	29.60	751.8				w.			8		10		w.	2 h'r	2 h'r	high	w.	dull.
S. S. Salerno, N 49° 12′. W. 15° 43′ †	29.94	760.5	52	11.1		w.			7		10		w.	0	0	h'vy	w.	raining.
U. S. S. Swatara, Port au Prince, Hayti, W.I			74	23.3	76	e.			3		0			0	0			clear
U. S. S. Tennessee, Aspinwall, U. S. C	29.90	759.4	79	26.1	82	n.	12	5.4			5		nw.	0.05	1.3	gr'nd	nne.	fair.
U. S. S. Vandalia, N. 10° 54′, W. 66° 40′	30.04	763.0	75	23.9	86	ese.			2		5		calm					fair.
S. S. Venetian, N. 51° 19′. W. 12° 57′*	29.57	751.1	49	9.4		w.			9		9		w.	6 h'r	6 h'r	high	wnw.	cloudy.
S. S. Westernland, Antwerp, Belgium			45	7.2		sw.			6		6		wsw.	0	0			dull.
S. S. Zeeland, N. 48° 04′. W. 25° 52′			49	9.4		wsw.			7		5		wsw.	rain	rain	h'vy	w	dull.
S. S. City of Berlin, N. 45° 32′. W. 51° 35′	29.81	757.2	44	6.7		sw.			7		10						sw.	drizzling.
U. S. Navy Yard, Portsmouth, N.H*	30.21	767.3	23	— 5.0	86	nne.	7	3.1			10		ne.	1.10	27.9			cloudy.
U. S. S. Kearsarge, Leghorn, Italy	29.89	759.2	54	12.2	61	ne.			4		0							clear.
U. S. S. Lancaster, Leghorn, Italy			58	14.4	100	ene.			5–6		0			0	0	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	30.12	765.0	31	— 0.6	7	nw.			3		10					sm'h		snowing.
U. S. S. Quinnebaug, Leghorn, Italy	29.91	759.7	56	13.3	63	ene.			4		0					sm'h		clear.
U. S. S. Shenandoah, St. Vincent, Cape Verd Ids*	30.19	766.8	71	21.7	75	ne.			4		2		ne.			mod.	n.	fair.
U. S. S. Trenton, Marseilles, France	29.99	761.7	50	10.0	58	n.			2		0							clear.
H. M. S. Alexandra, Malta, Mediterranean	30.06	763.5	63	17.2	62	sw.			4		3		sw.					d. clouds
H. M. S. Alecto, N. 7° 04′. W. 13° 14′	29.86	758.4	82	27.8		nw.			2							2	wsw.	d. clouds.
H. M. S. Comus, N. 26° 30′. W. 28° 40′	30.47	773.9	66	18.9	79	ne.			3		8					3	nne.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.41	772.4	67	19.4	74	ssw.			3		3	ssw.						d. clouds
H. M. S. Minotaur, Arta Bay, Majorca, Spain	30.08	764.0	53.5	11.9	77	n.			3		9					1	nne.	showery.
H. M. S. Tyne, N. 15° 20′, W. 24° 44′	30.10	764.5	71	21.7	71	nne.			8		3	nne.				6	nne.	misty.
H. M. S. Woodlark, N. 32° 37. E. 28° 26′	30.27	768.8	59	15.0	70	sw.			4		6	wsw.				3	wsw.	d. clouds.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.89	759.3	84.2	29.0	81	ssw.			3		0					2	sw.	blue sky.
S. S. British Crown, N. 51° 40′, W. 26° 28′†	29.65	753.1	40	4.4		wnw.			6		9		w.	2 h'r	2 h'r	high	wnw.	
S. S. Ohio, (Am) Philadelphia, Pa *†	30.30	769 6	11	—11.7	100	nw.			1		9		sw.	15 h'r	15 h'r			overcast.
S. S Pennsylvania, N. 41° 47′, W. 64° 31′			45	7.2	100	wnw.			5		9		sw.	6 h'r	6 h'r	h'vy	sw.	foggy.
S. S. Prussian, N. 51° 39′, W. 36° 09′	29.82	757 4	39	3.9		w.			5		10			5 h'r	5 h'r	cross	wsw.	light rain.
S. S. Scandinavian, Portland, Me	30.22	767.6	19	— 7.2		n.			3		10			0	0			overcast.
S. S. Sardinian, N. 53° 52′, W. 20° 18′	29.45	748.0	39	3.9		w.			6		9		wnw.	snow	snow	h'vy	w	cloudy.
S. S. Ailsa, N. 33° 21′, W. 74° 05′			72	22.2	92	s.			5		2		sw.	3 h'r	3 h'r	r'gh	sw.	fine.
S. S. Devonia, N. 47° 42′, W. 43° 12′†	29.99	761.7	42	5.6		ssw.			5		10		ssw.	0	0	short	ssw.	cloudy.
S. S. Wisconsin, N. 44° 18′, W. 54° 50′	29.89	759.2	48	8.9		sw.			6		10		wsw.	3 h'r	3 h'r	mod	wsw.	hazy.
S. S. Bohemia, Hamburg, Germany						wsw.			5–9		10		sw.	8 h'r	8 h'r			overcast.
S. S. Frisia, N. 50° 10′ W. 20° 30′	29.86	758.4	50	10.0		sw.			6		7		sw.	4 h'r	4 h'r	h'vy	nw.	squally.
S. S. Hevelius, Liverpool, Eng			42	5.6		nw.			6		7		nw.	1 h'r	1 h'r			showery.
S. S. Teniers, N. 3° 07′, W. 30° 30′	29.97	761.2	77.2	25.1	96	ne.			6		10 s;n			2.30	58.4	long	nne.	rainy.
S. S. Olbers, N. 45° 42′, W. 46° 42′			45.5	7.5	96	ssw.			6		9							hazy.
S. S. Texas, N. 24° 22′, W. 81° 11′*†	30.20	767.1	78	25.6	91	s.			2		0			0	0	sm'h		clear.
S. S. Erin, London, Eng			52	11.1		w.			9		8		w.	6 h'r	6 h'r			gale.
S. S. Salier, N. 41° 44′. W. 62° 30′ *	30.09	764.3				wsw.			6		10		w.	3 h'r	3 h'r	long	wsw.	covered.
S. S. Rhynland, N. 48° 50′, W. 37° 27′	30.01	762.2	56	13.3	87	wsw.			6		10		w.	0	0	r'gh	w.	overcast.
S. S. Waesland, New York, N. Y	30.31	769.9	23	— 5.0		n.			1		10		n.	12 h'r	12 h'r			cloudy.
S. S. P. Caland, N. 49° 38′, W. 17° 30′			51.1	10.6	87	w.			6		5		w.			3	n.	squally.
S. S. State of Nevada, Glasgow, Scotland*†	29.13	739.9	34	1.1		sw.			6		10		sw.	snow	snow			snowy.
S. S. Saxon, N. 39° 00′, W. 74° 41′			24	— 4.4		wnw.			3		10							threatening
S. S. Celtic, Liverpool, Eng*†	29.33	745.0	47	8.3		wsw.			6		10		w.	6 h'r	6 h'r			gloomy.
S. S. Rialto, N. 41° 18′, W. 59° 19′ †	30.14	765.5	70	21.1		s.			6		5f		ssw.	0	0	high	s.	cloudy†
Bg. Alcira, N. 14° 23′, W. 68° 40′	30.00	762.0	80	26.7		ene.			4		2		e.	0	0	r'gh	e.	hazy.
S. S. Antonio Lopez, Cadiz, Spain	30.28	769.1	60.5	15.8	79	wsw.			3		10			½h'r	½hr			cloudy.
Schr. Adda Doane, Savannah, Ga†	30.27	768.8				nw.			2		10		n.	6 h'r	6 h'r			cloudy.
Bgt. Achsah, Clementsport, N.S.†	30.07	763.8	19	— 7.2		ne.			1		10		ne.	6 h'r	6 h'r			snowing.
Bk. Bayonnaise, N. 35° 39′, W. 39° 55′			63.5	17.5		ssw.			1		5		sw.	0	0	sm'h	sw.	misty.
Bk. Chas. Stewart, N. 31° 10′, W. 36° 49′						e.			6		5		e.	light	light	mod.	ene.	fair.
Schr. C. R. Flint, N. 31° 50′, W. 60° 02′			72	22.2		se.			2		3		sse.	0	0	long	ne.	fair.
Bk. Celestina, N. 18° 56′, W. 24° 17′ *†	30.26	768.6				ne.			5		2		ne.	0	0	r'gh	ne.	hazy
Bk. C. S. Bushnell, N. 38° 28′, E 8° 27′	29.94	760.5				w.			3		5		nw.	driz.	driz.			

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. Dora, N. 62° 35′, W. 8° 41′*†	28.90	734.0	29.3	— 1.5		n.			3		8		nne.	4 h'r	4 h'r	long	ene.	overcast.
S. E. J. Spicer, N. 47° 40′, W. 10° 35′	29.96	761.0	52	11.1	93	w.			6		10		w.	rain	rain	long	wnw.	raining.
S. E. B. Sutton																		
Bk. Fred W. Carlon, N. 29° 40′, W. 74° 03′†	30.33	770.4				sse.			2		2		s.	4 h'r	4 h'r	mod.		hazy.
S. Hedwig, N. 37° 15′, E. 3° 03′	30.12	765.1	54.5	12.5	93	calm			0		9		nne.	6 h'r	6 h'r	2	nne.	drizzling.
Bk. Heinrich & Tonio, N. 53° 53′, E. 4° 20′			43	6.1	100	sw.			6		10		sw.	2 h'r	2 h'r	short	sw.	rainy.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.47	773.9				nnw.			6		9		n.	0	0			
S. Henry, N. 38° 15′, W. 14° 30′			61.5	16.4		w.			5	8 c						4	wnw.	cloudy.
Bk. Idaho, N. 19° 37′, W. 76° 50′*†	30.20	767.1				ese.			2		1		sse.	0	0	long	se.	clear.
Bg. John Wesley, Havana, Cuba, W. I.						se.			2		0			0	0			clear.
Schr. John L. Thomas, Hobbies Cays, C. A†	30.00	762.0	77	25.0	86	ene.			3		2		e.	0	0	mod.	ne.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.08	764.0				ene.			1		3		ene.	2 h'r	2 h'r			showery.
S. S. Laurel, Key West, Fla†	30.13	765.3	73	22.8		e.			1–2		6		ese.	2 h'r	2 h'r			fair.
S. S. Madrid, London, Eng			48	8.9	85	sw.			5		7		sw.	0	0			fair.
Schr. Maria Matilda, N. 37° 37′, W. 73° 53′			42	5.6	66	n.			5		2		n.	0	0			fine.
Schr. Noreno, N. 40° 10′, W. 63° 00′						sw.			5		7		wsw.	6 h'r	6 h'r	high	sw.	showery
S. Parker M. Whitmore, N. 7° 43′, W. 32° 30′*†	29.96	761.0	80	26.7		ne.			6		4		ne.	0	0	short	ne.	fair.
S. S. P. de Satrastegui, N. 42° 18′, W. 41° 51′	30.47	773.9							3		3		sw.	0	0	sm'h	sw.	clear.
Bg. Rising Sun, N. 18° 30′, W. 58° 40′†	30.10	764.5	76	24.4		ene.			5		3		ene.	0	0	long	ene.	clear.
Bk. Rosalie, N. 45° 49′, W. 23° 56′*†	30.24	768.1				nnw.			6		2		wnw.	0	0	long	wnw.	clear.
S. Salisbury, N. 19° 03′, W. 47° 05′	30.15	765.8	68.9	20.5	85	ene.			4		6 k		ene.	3½ hr	3½ hr	r'gh	ene.	cloudy.
S. S. City of Alexandria, N. 21° 38′, W. 88° 52′*†	30.12	765.0	78	25.6		n.			8							h'vy	n.	drizzling.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.76	755.9	76	24.4	91	ne.			1		0					sm'h		clear.
U. S. S. Pinta, Rio de Janeiro, Brazil	30.04	763.0	79	26.1	86	nw.			1		2		calm					clear.
H. M. S. Amethyst, S. 38° 51′, W. 57° 25′	29.67	753.6	67	19.4	84	nnw.			3		2		ne.			1	nw.	blue sky.
H. M. S. Boadicea, S. 11° 15′, W. 10° 50′	29.96	761.0	77	25.0		e			2		3		ese.			1	ese.	blue sky.
H. M. S. Opal, Simons Bay, Cape Colony	29.87	758.7	69	20.6	75	sw.			4–6		4		ese.					squally.
H. P. M. S. Tejo, S. 7° 35′, E. 12° 58′	30.18	766.5	82.0	27.8	90	sw.			3		1			0	0	2	sw.	blue sky.
S. S. Sirius, Santos, Brazil	29.97	761.2				calm			0		0			0	0			clear.
Bg. Daphne, S. 3° 08′, W. 32° 47′*†	29.90	759.4	82	27.8	70	se.			3		4		var.	4 h'r	4 h'r	chop	var.	hazy.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.61	762.2	81	27.2		wsw.			3		2		sw.	0	0			clear.
Bkt. Levanter, S. 26° 38′, W. 41° 47′*	30.08	764.0	86	30.0		nne.			4		2		ne.	0	0	mod.	ne.	clear.
S. St. David, S. 30° 30′, W. 26° 48′*†	30.36	771.1	73	22.8	76	nne.			4		8		ne.	c	0	light	ne.	fine.
S. David Stewart, Pernambuco, Brazil†	29.82	757.4	85	29.4		ese.			4		4		se.	light	light			
Bk. Godeffroy, S. 34° 39′, W. 29° 25′	30.11	764.8	67.6	19.8	90	n.			4		8		w.	0	0	mod.	var.	cloudy.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.26	768.6	41	5.0	65	calm			0		0			0	0			clear.
U. S. S. Adams, Sitka, Alaska†	29.52	749.8	40	4.4	91	n.			1		10							cloudy.
U. S. S. Alert, N. 15° 54′, E. 166° 54′	29.95	760.7	78	25.6	91	ne.			5		10		ne.			long	ne.	fair.
U. S. S. Essex, Canton, China	30.12	765.0	70	21.1	90	ese.			1		10							overcast.
U. S. S. Juniata, Shanghai, China	30.35	770.9	45	7.2	92	nne.			2		10		calm	light	light			cloudy.
U. S. S. Monocacy, Shanghai, China	30.35	770.9	46	7.8	77	nne.			2		10		calm					cloudy.
U. S. S. Richmond, Shanghai, China	30.30	771.1	47	8.3	92	nne.			2		10		ne.	0.50	12.7			cloudy.
H. M. S. Audacious, Hong Kong, China	30.10	764.5	66	18.9	89	calm			0		3		ene.					d. clouds.
H. M. S. Cleopatra, off Amoy, China			59	15.0	88	ese.			1		5					sm'h		d. clouds.
H. M. S. Champion, Shanghai, China	30.36	771.1	49	9.4	85	nne.			1		10							overcast.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.91	759.7	79.5	26.4	87	e.			1		9							misty.
H. P. M. S. Tamega, Macao, China	30.17	766.3	68.0	20.0	76	e.			2		10			0	0			overcast.
S. S. Newbern, Cape St. Lucas, Mexico *†	30.06	763.5	65	18.3	54	n.			2		0			0	0	light	sw.	clear.
S. S. Oregon, N. 42° 18′, W. 124° 38′†	29.90	759.4	50	10.0	86	w.			4		1		sw.			light	wsw.	squally.
S. S. Alameda, Honolulu, Sandwich Islands†	30.00	762.0	71	21.7	71	ne.			2		2		ene.	0	0			clear.
S. S. Ancon, San Francisco, Cal.†	29.92	760.0	50	10.0	79	calm			0		0			0	0			foggy.
S. S. City of Chester, Hookton, Cal.†	29.92	760.0	47	8.3	100	calm			0		10							raining.
S. S. Orizaba, N. 34° 35′, W. 120° 40′†	29.97	761.2	54	12.2	74	nw.			2				se.	0	0	mod.	wsw.	overcast.
S. S. Queen of the Pacific, N. 40° 28′ W. 124° 34′†	29.91	759.7	48	8.9	92	sse.			4		10		s.	4 h'r	4 h'r	sm'h		cloudy.
S. S. State of California, Portland, Oregon†	29.85	758.2	27	— 2.8	88	se.			2		10		se.					snowing.
S. S. City of Pekin, N. 39° 10′, W. 128° 40′			47	8.3	77	nw.			5		5		nw.			long	wsw.	fair.
S. S. City of Rio de Janeiro, N. 21° 10′, W. 162° 18′†	29.96	761.9	74	23.3		e.			4		4		ne.			small	ene.	fair.
S. S. City of Sydney, N. 28° 32′, W. 145° 00′*†	30.34	770.6	65	18.3	73	ene.			6		8 k		ne.			h'vy	ne.	cloudy.
S. S. Granada, Panama, Panama†	29.88	758.9	74	23.3	90	wnw.			1		0			0	0	light	nw.	clear.
S. S. San Blas, Acapulco, Mexico†	29.99	761.7	76	24.4	86	calm			0		2		ese.	0.03	0.8			clear.
S. S. Zealandia, N. 30° 07′, W. 139° 36′	30.47	773.9	62	16.7	83	ne.			4				ne.	7 h'r	7 h'r	mod.	ne.	clear.
Bk. Alpheus Marshall, N. 21° 48′, E. 144° 31′*†	30.10	764.5	73	22.8	76	ne.			4		2		ne.	½ h'r	½ h'r	light	ne.	clear.
S. S. Benalder, N. 26° 15′, E. 120° 45′*	30.25	768.3	60	15.6	94	ne.			5		8		nne.	0	0	mod.	ne.	cloudy.
S. Carondelet, S. 0° 44′, E. 130° 23′*†	29.91	759.7				nw.			2		4		nw.	0	0	sm'h	w.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 11° 34′, W. 96° 26′	29.94	760.5	74	23.3	86	ese.			1		5		e.	0	0	sm'h	e.	fair.
U. S. S. Lackawanna, S. 11° 48′, W. 80° 23′	29.91	759.7	76	24.4	82	sse.			2		8		nw.			mod.	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.08	764.0	73	22.8	90	s.			1		10		s.			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru *	30.00	762.0	71	21.7	100	sse.			1		10		s.			sm'h		overcast.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.93	760.2	61	16.1	82	calm			0		2					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.91	759.7	65	18.3		nne.			3							3	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.67	753.6	54	12.2	100	calm			0		0†							raining.†
H. M. S. Sylvia, off Sandy Point, Patagonia	28.42	721.9	51	10.6	79	wnw.			3–5		9		calm					squally.
S. S. Australia, Sydney, N. S. W.	29.96	761.0	70	21.1		e.			0		4		e.	0	0			threatening.
S. S. George S. Homer, S. 48° 23′, W. 119° 39′*†	29.93	760.2				wnw.			2		8		w.			h'vy	nw.	cloudy.
S. Izmir, S. 20° 12′, W. 78° 06′*	30.30	769.6				calm			0		3		calm	0	0	long	ssw	clear.
S. St. Francis, S. 19° 30′, W. 95° 00′*†	30.08	764.0	72	22.2	76	se.			3		1		se.	0	0	mod.	s.	clear.
S. Grecian, S. 46° 01′, W. 122° 15′†	29.89	759.2	57	13.9	81	wnw.			2		10		nw.	0	0	long	w.	misty.
S. Henry Failing, S. 50° 15′, W. 125° 36′*†	29.72	754.9	54	12.2	74	wnw.			5		10					sm'h	wnw.	foggy.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	29.78	756.4	57	13.9	87	ene.			1		9							d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, S. 15° 32′, E. 46° 08′	29.80	756.9	82	27.8	83	wnw.	17	7.6			10		wnw.	0.14	3.6	mod	wnw.	cloudy.
U. S. S. Pensacola, Tenerive, Madagascar*	29.74	755.4	87	30.6	62	ene.			1		2		calm	0	0		ene.	clear.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	30.08	764.0	77	25.0	91	calm			0		5					sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	30.08	764.0	75	23.9	77	ne.			4		6							d. clouds.
H. M. S. Orontes, N. 5° 53′, E. 51° 34′	29.99	761.7	78	25.6	100	nne.			6		4		nne.			3	nne.	d. clouds.
H. M. S. Tourmaline, S. 18° 13′, W. 49° 27′	29.74	755.4	84	28.9	83	ne.			1							6	ene.	d. clouds.
S. S. Galatia, Calcutta, India†	30.00	762.0	77	25.0	86	calm			0		0			0	0			clear.
S. S. Port Phillip, S. 18° 38′, E. 93° 16′*	29.94	760.5	82	27.8		se.			3-4							sm'h	e.	clear.
S. S. Radnorshire, N. 12° 58′, E. 54° 00′*†	30.13	765.3				ene.			5		hz		ene.	0	0	mod.	ne.	hazy.
S. S. Lepanto, N. 12° 46′, E. 44° 58′	30.06	763.5	78	25.0		e.			4		3		e.	0	0	mod.	e.	clear.

International Chart I. January 25, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 26, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ALGERIAN.																			
Nemours			30.16	766.0	62.2	16.8	83	se.			2		3			0.087	2.2	pretty fair	Roziere.
Algiers			30.08	764.0	48.2	9.0	87	wsw.			4		10			0.331	8.4	covered	Aubert.
La Calle			30.05	763.2	63.7	17.6	80	wnw.			2		5			0.079	2.0	cloudy	Fonfrède.
Tunis			30.07	763.7	55.4	13.0	70	nw.			3		4			0	0	cloudy	Delord.
Tebessa					41.0	5.0	100	wsw.			2		1			0.115	3.0	very fair	Hans.
Geriville					42.8	6.0	74	nw.			3		4			0.020	0.5	cloudy	Forfert.
Laghouat			30.18	766.6	54.3	12.4	70	sw			3		10			0.118	3.0	covered	Abraham.
Biskra			30.13	765.3	50.4	10.2	85	calm			0		8			0	0	very cloudy	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			29.16	740.7	57.0	13.9	77	s.	8	3.6			3 k			0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.63	752.6	29.82	757.4	50	10.0	84	ssw.			2		1		ssw.	0.06	1.5	clear	Com. I. Short, R.N.
Melbourne, Victoria	29.82	757.4	29.91	759.7	54.8	12.7	85	w.	15	6.7			8			0.23	5.8	showery	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.48	748.8	30.06	763.5	33.4	0.8	58	ne.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.09	738.8	29.87	758.8	39.9	4.4	47	sse.	4.3	1.9			0			0	0		Dr. Wierzbiski
Eperies	29.11	739.3	30.04	762.9	28.0	— 2.2	84	s.			2		0			0	0		Julius Mikolik.
Gratz	28.71	729.3	30.02	762.4	32.9	0.5	59	n.			2		0			0.016	0.4		Andreas Rospini.
Hermannstadt	28.60	726.4	30.08	764.1	35.2	1.8	90	se.			2		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.52	724.5	29.92	759.9	33.8	1.0	70	ne.			1		2			0	0		The Staff.
Lemberg	28.98	736.0	30.00	762.1	34.2	1.2	67	se.			1		0			0	0		Dr. T. Stanecki.
Pola	29.96	760.9	30.01	763.0	43.3	6.3	58	wnw.			2		0			0	0		I. R. Hydrographic Office.
Szathmar	29.55	750.5	30.03	762.8	36.5	2.5	60	se.			2		0			0.008	0.2		Joseph Midliuszky, S. J
Szegedin	29.74	755.4	30.04	762.9	34.0	1.1	90	s.			1		10			0.016	0.4		Karl Stancel.
Trieste	29.97	761.1	30.06	763.6	44.1	6.7	47	w.			1		0			0	0		Royal Academy.
Vienna	29.22	742.2	29.96	761.0	36.7	2.6	63	ne.			1		0			0	0		I. R. Central Met. Obs'y.
BELGIAN.																			
Arlon	27.91	708.8	29.30	744.3	37.8	3.2	98	sw.			3		5			0.047	1.2	raining	
Brussels	29.21	741.8	29.41	746.9	46.0	7.8	75									0.122	3.1		
Furnes	29.32	744.8	29.34	745.3	43.5	6.4	89	w			1-2		10			0.740	18.8	raining	
Maeseyck	29.28	743.7	29.41	746.9	48.7	9.3	62	sw.			4		7			0.098	2.5		
BRITISH.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			28.76	730.5	36.9	2.7	90	se.	31	13.9			10					raining	John Hartnup.
Bolton, Sharples	28.31	719.1	28.84	732.5	35.1	1.7	88	ssw.	18	8.0			10					gloomy	Thomas Mackereth.
Bradford, Yorkshire	28.51	724.1	28.90	734.0	38.3	3.5	83	sw.			4		9			0.11	2.8	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.02	762.5	30.05	763.3	82	27.8	67	ne.			2		3					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	28.94	735.1	29.06	738.1	41.6	5.3	87	sw.			10.0		8					overcast	John McLaren.
Chatham, School M. E.	29.06	738.1	29.24	742.7	41.1	5.1	93	sw.			2		10					raining	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	28.82	732.0	29.04	737.6	50.6	10.3	79	ssw.			7		10			blank	blank	overcast	The Staff.
Fort Napier, Natal	27.50	698.5	29.81	757.2	83.0	28.3	64	ne.			1		4					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	87	30.6	58	s.			6		1					d. clouds	J. W. Smith.
Galway, Queen's College	28.35	720.1	28.39	721.1	44	6.7	92	sw.			6		10			0.41	10.4	raining	Wm. Ryan.
Gibraltar, Mediterranean	30.21	767.3	30.26	768.6	59.2	15.1	92	nw.			3		8					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.01	736.8	29.19	741.4	41.8	5.4	93	sw.					10					drizzling	The Staff.
Guernsey	28.99	736.3	29.28	743.7	50.3	10.2	86	wsw.			6		10					raining	A. Collenette, F.R.M.S.
Kew, Observatory	29.12	739.6	29.16	740.7	42.8	6.0	92	ssw.	14	6.3			9					threatening.	The Staff.
Leicester, Museum	28.76	730.5	29.01	736.8	40.7	4.8	82	sw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.99	761.7	30.06	763.5	58.2	14.6	65	w.			3		8			0.06	1.5	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.24	768.1	30.29	769.4	73.0	22.8	95	e.			1		5					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	28.87	733.3	29.10	739.1	43.0	6.1	92	s.			5		10					raining	The Staff.
Plymouth	29.01	736.8	29.09	738.9	49.9	9.9	87	sw.			6		10					showery	John Merrifield.
Sandwick Manse, Orkneys	28.50	723.9	28.61	726.7	30.1	— 1.1	100						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.07	763.8	30.13	765.3	54.8	12.7	69	sw.			1		2					blue sky	W. H. Lyne.
Sheffield	28.43	722.1	28.71	729.2	41.2	5.1	89	s.			8		9			0.27	6.9	overcast	W. F. Cooper.
Sillioth Rectory	28.60	726.4	28.63	727.2	38.7	3.7	85	se.			3		10			0.317	8.0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			28.82	732.0	36.1	2.3	83	s.	27	12.1			10			blank	blank	overcast	Rev. S. J. Perry.
Strathfield Turgiss					43.9	6.6	93	s.			4.2		10					rain & hail	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	28.32	719.3	28.35	720.1	49.2	9.6	67	wsw.	70	31.2			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.71	754.6	30.11	764.8	56.1	13.4	62	sw.	7.5	3.4		0	5 k		sw.	0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B	30.31	769.9	30.35	770.9	—21.0	—29.4		sw.	5	2.2		0	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.31	769.9	30.36	771.1	—15	—26.1	100	calm	0	0			10 s		calm	0.010	0.3	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.31	769.9	30.39	771.9	—23	—30.6	100	calm	0	0		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.30	769.6	30.52	775.2	6.5	—14.2	98	w.			1		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.32	770.1	30.37	771.4	—15.5	—26.4		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.31	769.9	30.33	770.4	— 4	—20.0	83	sw.	10	4.5		5 cs	5 s		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.53	750.0	30.51	774.9	—14	—25.6	100	s.	7	3.1		0	0			0	0	clear	James Stewart.
Fredericton, N. B	30.38	771.6	30.46	773.7	—27.0	—32.8	100	calm	0	0		0	0			0.050	1.3	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B	30.39	771.9	30.45	773.4	8	—13.3	96	nw.	11	4.9		0	5 s		nw.	0	0	fair	J. Chipman Seeley
Granton, Ontario	29.39	746.5	30.62	777.7	7.7	—13.5	96	sw.	5	2.2			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.25	768.3	30.40	772.1	4	—15.6	96	w.	5	2.2		5 cs	2 s	w.	w.	inap.	inap.	fair	A. Allison.
Hamilton, Ontario	30.13	765.3	30.58	776.7	12.2	—11.0	89	sw.			1	10 cs	0	sw		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.20	767.1	30.58	776.7	8	—13.3	80	w.	1	0.4			10 n		w.	inap.	inap.	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.21	767.3	30.25	768.3	10 0	—12.2	89	n.	1	0.4		6 ck	0	w.		0	0	d. clouds	C. H. Rigby.
London, Ontario	29.61	752.1	30.62	777.7	9.8	—12.3	76	sw.			2		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.37	695.2	29.89	759.2	— 1	—18.3	87	s.	0	0		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	28.20	716.3	30.37	771.4	— 4	—20.0	100	calm	0	0			10 n		calm	0	0	threatening	Rev. J. M. Wellwood.
Montreal, Quebec*	30.32	770.1	30.55	776.0	0	—17.8	83	w.	13	5.8			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.30	769.6	30.50	776.2	—17.1	—27.3	50	nnw.					10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.75	755.6	30.51	774.9	15	— 9.4	83	s.	12	5.4			10 n		s.	0.12	3.0	light snow	Rev. R. Mosley.
Peterboro, Ontario	29.73	755.1	30.58	776.7	— 7.2	—21.8	80	calm			0	0	5 k			0	0	foggy	Wm. O'Connor, M.A.
Port Arthur	29.89	759.2	30.71	780.0	— 0	—21.1	62	nw.	3	1.3		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.84	757.9	30.62	777.7	5	—15.0	100	sw.	10	4.5			10 n			0	0	threatening.	H. Morgan.
Port Stanley, Ontario	29.91	759.7	30.63	778.0	12	—11.1	73	w.	8	3.6			10 n		sw.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	27.68	703.1	30.18	766.6	2	—16.7		s.	6	2.7		0	0			0	0	foggy	Leslie Gordon.
Quebec, Quebec*	30.09	764.3	30.51	774.9	— 9	—22.8	64	w.	16	7.2			10 s		w.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.97	761.2	30.50	774.7	— 3	—19.4	83	se.	3	1.3			10 n			0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.35	770.9	30.40	772.1	— 1	—18.3	79	nw.	4	1.8		0	0			0	0	clear	
St. John, N. B	30.27	768.8	30.44	773.2	0.4	—17.6	91	nw.	?	?		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			30.16	766.0	19.4	— 7.0		n.			2								The Commandant.
Saugeen, Ontario*	29.77	756.1	30.55	776.0	16	— 8.9	87	sw.	19	8.5			10 s			0	0	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	29.21	741.9	30.64	778.2	8.4	—13.1	89	w.	2	0.9			10 n			0.100	2.5	snowing	W. Mc Bride, M. A.
Sydney, C. B*	30.26	768.6	30.33	770.4	3	—16.1	96	calm	0	0		5 c	0	w.		0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	30.18	766.6	30.61	777.5	7	—13.9	87	w.	5	2.2			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.46	748.3	30.64	778.2	9.6	—12.4	83	sw.	5	2.2			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.34	770.6	30.41	772.4	18	— 7.8	70	n.	10	4.5		5 c	2 k	w.	n.	0	0	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.98	761.5	30.01	762.2	72.0	22.2	88	sw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.92	760.0			79.2	26.2	51	s.				0	2 k			0	0		Capt.R.Gardner Warton
Springbok Fontein	27.82	706.6			74	23.3	52									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.95	760.8	30.03	762.8	65.3	18.5	83	n.			2	10	0					cloudy	Samuel Redolez.
Iquique	29.88	759.0	29.91	759.7	73.4	23.0	77	sw.			2	6 c	0					foggy	Rafael Moreno.
Niebla	29.61	752.0	29.71	754.7	63.3	17.4	78	e.			3	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.88	759.0	29.97	761.2	68.4	20.2	80	sw.			2	6 c	0	sw.				fair	Manuel Tobar.
Punta Corona	29.95	760.7	30.13	765.4				e.			1		10			0	0	cloudy	Francisco Alvarado.
Valparaiso	29.84	758.0	29.98	761.5	64.4	18.0	80	ne.				10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.28	769 2	30.31	769.8	41.5	5.3	91	nne.	4.5	2.0			10			0.106	2.7		M.Marc Dechevrens,S. J.
Danish.																			
Copenhagen	29.07	738.4	29.12	739.6	37.8	3.2	95	sw.	22	10			10					raining	Oversergent Fischer.
Fanöe	28.92	734.6	28.94	735.1	33.4	0.8	100	se.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.31	744.5	29.35	745.6	— 8.1	—22.3	100	ene.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	28.77	730.7	28.81	731.8	14.2	— 9.9	94	ne.			7		10						A. O. Thorlacius.
Thorshavn	28.57	725.7	28.60	726.3	23.7	— 4.6	88	calm	0	0			0						Overloerer Bergh.
Vestervig	28.90	734.0	28.99	736.4	36 7	2.6	98	sse.			2		10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.94	760.4			58.1	14.5		ne.	1.1	0.5		0	4?			0	0	covered?	Albert Ismalun.
French.																			
Agen, Normal School	29.46	748.2	30.13	765.3	42.8	6	85	wsw.			1	c				0	0	foggy	M. Labroue, Director.
Alençon, Normal School	29.04	737.7	29.60	751.7	48.9	9.4	89	s.			8		10 k			0	0		M. Nicot, Director.
Arras, Normal School			29.41	747.0	45.3	7.4	91	sw.			4		10			0.213	5.4	covered	M. Ungerer, Director.
Avignon, Normal School	30.02	762.6	30.10	764.6	46.0	7.8	57	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.20	741.7	29.76	756.0	42.4	5.8	96	ssw.			2		10		ssw.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.24	742.6	29.50	749.3	49.8	9.9	81	wsw.			3		10		wsw.	0.059	1.5	raining	M. Frère Eugène Marié.
Besançon, Normal School	28 92	734.6	29.83	757.7	45.3	7.4	55	s.			1		1		n.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.69	754.2	29.96	760.9	50.2	10.1	84	s.			1		8		wsw.	0.055	1.4	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.25	743.0	29.81	757.2	47.3	8.5	79	e.			2		8		e.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.19	741.4	29.43	747.6	51.8	11.0	84	sw.			10		10		sw.	0.307	7.8		M. de Kermarée, Dir.
Caen, Normal School	29.34	745 2	29.45	747.9	52.7	11.5	100	sw.			4		5		sw.	0.20	5.	cloudy	M. Berson, Director.
Châlone-sur-Marne, N.Sch'	29.29	743.9	29.61	752.2	45.5	7.5	91	se.			6		5		sw.	0.051	1.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.10	739.1	29.56	750.7	43.2	6.2	85	ssw.			2		10			0.08	2.	raining	M. Noël, Director.
Clermont-Ferrand Obs'y	28.56	725 3	29.92	760.0	48.9	9.4	53	sse.			4		8			0	0		M. Alluard, Director.
Cluny, Normal School	29.11	739.3	29.98	761.4	43.7	6.5	54	sw.			3		8	w.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.86	733.0	29.74	755 3	39.7	4.3	95	sw.			6		10 n	sw.	sw.	0.059	1.5	covered	Dr. Coulet, Director.
Gap, Normal School	27.48	697.9	30.07	763.8	41.0	5	51	calm			0		1			0	0		M. Jarach, Director.
Grésasque, du Rhone	28.92	734.6	30.08	763.9	45.9	7.7	53	n.			1		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.33	745.0	30.14	765 5	37.4	3	80	e.			1		n			0	0		M. Ablard, Director.
Guéret, Normal School	28.16	715 2	29.80	756.8	41.9	5.5	48	sw.			8				sw.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.48	748.9	30.05	763.3	55.6	13.1	41	sw.			1		0			0.039	1.0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.44	747.8	29.54	750.4	53.2	11.8	74	sw.					10	w.	sw	0.453	11.5	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.92	734.5	30.00	762.0	42.6	5.9	58	s.			2	5 ck				0	0	cloudy	M. André, Director.
Mans, Normal School	29.34	745.1	29.64	752.9	52.7	11.5		sw.			6		8 n		sw.	0.094	2.4	very cloudy	M. Richard, Director.
Marseille, Observatory	29.79	756.7	30.07	763.7	48.6	9.2	48	w.			2		0			0	0		M. Stephan, Director.
Montlouis	24.78	629.4	29.62	752.4	35.6	2.0	71	sw.	16 .8	7.5			4	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.94	760.5	30.05	763 3	51.8	11	63	w.			2		2	sse.		0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.95	735.2	29.74	755.5	36.7	2.6	93	ssw.			2				sw.	0	0		M. Hasse, Director.
Nantes, Observatory	29.54	750.4	29.71	754.5	52.7	11.5	78	sw.			2-4		10 n		w.	0.039	1.0		M. Larocque, Director.
Perpignan, Observatory	30.02	762.5	30.13	765.4	52.2	11.2	44	s.	3.8	1.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.08	535 5			18.1	— 7.7		wnw.			3		5		nw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.97	735.9	30.06	763.6	45.5	7.5	55	n.			1					0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	24 93	633.2			28.6	— 1.9	100	wsw.			8		10			0.051	1.3	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.83	757.6	29.86	758.4	51.8	11.0	85	ssw.			8		10		sw.	2.40	61.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.54	750.4	29.76	755.8	51.8	11	83	sw.			6		5		ne.	0.31	8.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.90	708.7	30.12	765.0	38.7	3.7		nw.			1		5		se.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.39	746.5	29.44	747.7	49.6	9.8	89	sw.			1		5	sw.		0.154	3.9	cloudy	M. Mouillot, Dir.
St. Lô, Normal School			29.30	744.2	50.9	10.5	83	w.			8		10			0.669	17.0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.43	747.4	29.59	751.6	47.5	8.6	88	ssw.			4		10		sw.	0.035	0.9	covered	M. Renou, Director.
Toulouse, Observatory	29.41	747.0	30.13	765.4	48.6	9.2	73	s.			1		5	w.		0	0	cloudy	M. Bailland, Director.
Tours	29.73	755.1	29.91	759.6	52.5	11.4	80	s.			6		5 s	sw.	sw.	0.118	3.0	cloudy	M. de Tastes.
Versailles, Observatory	29.08	738.6	29.57	751.1	47.5	8.6	89	sw.			6		10			0.075	1.9	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.89	759.1	30.04	762.9	54.1	12.3	52	sw.	9.8	4.4		4 c;ck			wnw.	0.071	1.8	misty	M. Cartier, Director.
German.																			
Ansbach	28.27	718.1	29.76	755 9	37.8	3.2	62	sw.			4		8	sw.		0	0		Prof. Jnedt.
Bamberg	28.83	732.3	29.67	753.5	38.1	3.4	63	w.			2		6 k		w.	0.020	0.5	raining	Prof. Dr. Hoh.
Berlin	29.29	744 0	29.44	747.7	40.6	4.8	65	sw.			7		10			0	0		Meteorological Institute
Breslau	29.24	742.7	29.77	756.1	37.0	2.8	54	s.			3		2			0	0	misty	Royal University Obs'y
Carlsruhe	29.23	742 5	29.69	754 2	42.8	6.0	67	sw.			10		10	sw.		0.154	3.9		Albert Senz.
Cassel	28.67	728.2	29.38	746.3	42.1	5.6	71	s.			8		5	s.		0.098	2.5		Dr. H. Möhl.
Frankfort-on-the-Main	29 23	742.5	29.60	751.9	40.5	4.7	78	ssw.			3		10			0.012	0.3		Physical Society.
Friedrichshafen	28.44	722.4	29.89	759.2	41.0	5.0	60	sw.			6		3	w.		0.220	5.6	raining	Wilhelm, Chief Tel.
Hamburg	29.07	738.3	29.16	740.6	40.6	4.8	89	sw.			8		10			0.177	4.5		E. Preifer.
Kiel	29.04	737 6	29.06	738 0	40.1	4.5	87	sw.			4		10			0.630	16.0		Prof. Dr.G. Karsten.
Leipsic, Astron'l Obs'y	29.10	739 1	29.53	750.0	39.9	4.4	71	s.			5		9	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.21	742.0	29.40	746.8	39.6	4.2	79	ssw.			4		9			0	0		Weather Observatory.
Memel	29.52	749.7	29.56	750.8	36.1	2.3	85	s			5		10 s						Issermann.
Munich	28.02	711.7	29.87	758.7	41.2	5.1	41	nw.			2		1			0	0		Central Station.
Neufahrwasser	29.51	749.6	29.53	750.0	38.3	3.5	72	s.			3		9			0.016	0.4		A. Lothes.
Neustadt, Palatinate	29.10	739.2	29.62	752.4	44.2	6.8	73	sw.			5		10			0	0		Dicknether.
Stuttgart	28.76	730.6	29.67	753.6	43.3	6.3	55	sw.			7		8	w.		0.016	0.4		Prof. Dr. Schoder.
Wustrow	29.17	740.8	29.19	741.4	35.3	3.5	90	s.			5		10			0.079	2.0		Profs. Brandes & Reimer
Greek.																			
Athens	29.78	756 4	30.17	766.3	56.7	13.7		sw.			1.0	6	0			0.004	0.1	hazy	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.95	760.8	30.01	762.1	69.9	21.1	24	wnw.	21.0	9.4			0?					drizzling?	
Deesa	29.49	749.0	29.97	761.2	76.5	24.7	41	wsw.	15.0	6.7			4	sw.		0	0	d. clouds	
Bombay	29.94	760.5	29.98	761.5	75.7	24.3	74	nw.	10.0	7.2			0			0	0	blue sky	
Poona, Yarrowda	28.11	714.0	29.96	760.9	82.8	28.2	24	nw.	3.0	1.3			0			0	0	blue sky	
Belgaum	27.42	696.5	29.95	760 7	79.6	26.4	18	calm	0	0			0			0	0	blue sky	
Lahore	29.07	738.4	29.83	757.6	70.7	21.5	45	e.	6.0	2.7			8			0	0	d. clouds	
Roorkee	29.07	738 3	29.99	761.7	70.7	21.5	45	calm	0	0			10	w.		0	0	overcast	
Agra	29.41	747.1	29.99	761.7	75.7	24.3	44	se.					5		e.	0	0	d. clouds	
Nagpur	28.95	735 2	30.00	762.0	77.9	25.5	34	calm	1.0	0.4			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.64	727.4	30.02	762.5	73.3	22.9	40	calm	0.9	0.4			0			0	0	blue sky	
Lucknow	29.66	753.4	30.04	763.1	71.2	21.8	47	calm	0	0			0			0	0	blue sky	
Allahabad	29.71	754.7	30.04	762.9	69.5	20.8	58	calm	0	0			0			0	0	blue sky	
Patna	29.86	758.5	30.05	763.3	69.5	20.8	39	calm	1.2	0.5			0			0	0	blue sky	
Hazaribagh	27.98	710.8	30.05	763.4	66.1	18.9	46	wnw.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.98	761.5	30.06	763.6	75.5	24.2	56	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	30.00	762.0	30.02	762.5	69.9	21.1	67	calm	0	0			0			0	0	blue sky	
Dhubri	29.90	759.5	30.02	762.6	68.8	20.4	66	nne.	5.3	2.4			0			0	0	blue sky	
Chittagong	29.93	760.2	30.02	762.6	66.6	19.2	81	calm	2.6	1.2			0			0	0	blue sky	
Sibsagar	29.70	754.4	30.05	763.4	59.9	15.5	82	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.48	723.5	29.95	760.7	73.6	23.1	38	s.	6.5	2.9			8	s.		0	0	d. clouds	
Zanzibar	29.84	757.9	29.87	758.6	84.5	29.2	58	ene.	10.5	4.7			0			0	0	blue sky	
Bellary	28.49	723.6			80.5	26.9	30	ese.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.75	755.6			82.7	28.2	41	ene.	0.3	0.1		3	4			0	0	d. clouds	
ITALIAN.																			
Udine	28.82	732.1	30.01	762.9	42.4	5.8	30	calm	0	0			1			0	0		Prof. Giovanni Clodig.
Milan	29.54	750.4	30.08	764.1	38.5	3.6	57	sw.	2.3	1.9			0			0	0		Prof. G.V.Schiapparelli
Padua	29.93	760.3	30.05	763.2	40.1	4.5	41	sw.	3.1	1.4			2	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.12	739.6	30.06	763.6	39.9	4.4	50	sse.	2.5	1.1			0			0	0		Prof. F. F. Denza.
Genoa	29.80	756.9	30.00	761.9	50.2	10.1	52	se.	6.3	2.8			4	s.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.02	762.4	30.07	763.7	41.4	5.2	64	n.	9.8	4.4			0			0	0		Prof. Luigi Guidi.
Florence	29.79	756.6	30.05	763.3	42.8	6.0	60	ne.			2		0			0	0		Prof. Costantino Pittel.
Leghorn	29.90	759.5	29.99	761.7	49.3	9.6	58	wnw.	8.1	3.6			0			0	0		Prof. P. Monte.
Rome	29.85	758.3	30.03	762.8	51.4	10.8	61	nnw.	0	0			3			0	0		Prof. P. Tacchini.
Lecce	29.79	756.7	30.05	763.3	51.4	10.8	73	nne.	9.4	4.2			10	ne.		0	0		Prof. C. de Giorgi.
Cosenza	29.10	739.1	30.02	762.5	46.4	8.0	72	ssw.	8.1	3.6			10	w.		0.319	8.1		Prof. D. Conti.
Cagliari	29.85	758.1	30.04	763.1	55.9	13.3	45	nw.			2		3			0	0		Prof. A. Pacinotti.
Palermo	29.78	756.5	30.04	763.0	56.3	13.5	51	wsw.	5.6	2.5			3	w.		0.012	0.3		Prof. G. Cacciatore
Syracuse	29.97	761.2	30.02	762.4	58.8	14.9	64	wnw.	7.4	3.3			3	wnw.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.49	749.1	30.03	762.7	51.6	10.9	71	se.	1.3	0.6			6	sw.		0.327	8.3		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.11	764.7	30.14	765.6	24.0	— 4.4	88	calm			0		10 k		W.	0.035	0.9	cloudy	H. Hattori.
Awomori	30.08	764.0	30.12	765.0	23.0	— 5.0	72	W.	5.5	2.5		0	0			0	0	clear	K. Ogawa.
Hakodate	30.09	764.4	30.10	764.5	33.0	0.6	89	wsw.	6.6	2.9		0	0			0	0	clear	Y. Souma.
Hamamatsu	30.05	763.3	30.15	765.8	44.5	6.9	83	calm			0	5 cs	5 s			0.110	2.8	overcast	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.09	764.4	30.11	764.8	42.4	5.8	90	n.	0.1	0.04			10 n		sw.	0.177	4.5	light rain	Y. Okamoto.
Kagoshima	30.07	763.8	30.08	764.1	52.7	11.5	89	ne.			2		10 s			0.315	8.0	overcast	
Kanazawa	30.00	762.0	30.11	764.8	38.4	3.6	82	se.	3.8	1.7			10 s			0.115	2.9	overcast	S. Endo.
Kioto	29.95	760.8	30.13	765.2	30.2	4.0	85	nnw.	1.2	0.5			10 s			0.380	9.6	cloudy	M. Tojima.
Kochi	30.08	764.0	30.10	764.5	48.5	9.2	86	wnw.	3.6	1.6			10 n			0.140	3.6	raining	K. Kusunose.
Miasaka	30.08	764.0	30.11	764.7	48.0	8.9	96	nw.			1		10 n		W.	0.429	10.9	raining	K. Masusaki.
Miyako	30.06	763.5	30.17	766.3	28.0	— 2.2	80	wsw.	1.2	0.6		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.89	759.2	30.10	764.5	45.9	7.7	92	ne.	3.6	1.6			10 n			0.190	4.8	raining	
Nemuro	30.04	763.0	30.09	764.3	22.0	— 5.6	71	calm	0	0		0	0			0	0	clear	A. Shibuya.
Niigata	30.08	764.0	30.12	765.0	34.4	1.3	92	se.	1.3	0.5		0	7s;ks		sw.	0.170	4.3	cloudy	Satoo & Tomikawa.
Nobiru	30.14	765.6	30.16	766.0	31.4	— 0.3	86	calm	1.5	0.7		0	6 ks			0.025	0.6	fair	Yoshino & Midzushina.
Numadzu	30.13	765.3	30.17	766.2	44.4	6.9	81	e.			2		10 s			0.075	1.9	overcast	T. Ohgi.
Osaka	30.12	765.0	30.13	765.4	40.3	4.6	83	ne.	4.1	1.8			10 s			0.305	7.7	cloudy	H. Omura.
Sakai	30.07	763.7	30.08	763.9	44.7	7.1	85	ne.			2		10 s		W.	0.209	5.3	cloudy	Yamawchi & Sakamoto.
Sapporo	30.03	762.8	30.10	764.6	16.2	— 8.8	82	sw.	2.6	1.2		0	0			0.069	1.8	clear	S. Kimura.
Shimonoseki	29.96	760.9	30.10	764.6	44.0	6.7	92	e.			1		10 n			0.173	4.4	raining	S. Sakano.
Tokei Obs'y, Yeddo	30.10	764.5	30.18	766.5	40.3	4.6	85	se.	3.5	1.5		0	0			0.045	1.1	clear	The Staff.
Wakayama	30.06	763.5	30.11	764.9	42.6	5.9	77	calm	0	0			10 n			0.268	6.8	raining	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.55	750.6	29.74	755.4	83.0	28.3	59	sse.	19.5	8.7		0	3 k		ssw.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.38	619.2	30.29	769.4	41.4	5.2	86	nnw.	0.9	0.4		5 c	1 s			0	0	cloudy	M. Leal & M. Pina.
Mazatlan	29.79	756.6	30.05	763.3	68.0	20.0	70	ese.	5.3	2.3			9 n		sw.	0	0	threatening	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.35	745.5	29.35	745.5	44.4	6.9		sw.			4					0.543	13.8		
Groningen	29.08	738.7	29.14	740.1	41.2	5.1		wsw.			3					0.327	8.3		
Helder	29.18	741.2	29.18	741.2	41.0	5.0		W.			6					0.224	5.7		
Hellevoetsluis	29.30	744.3	29.30	744.3	47.7	8.7	87	W			5					0.362	9.2		
Utrecht	29.28	743.6	29.33	745.0	42.8	6.0	78	wsw.			6		7			0.220	5.6	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.7			78.1	25.6	91	nw.	0	0			9			0	0		Lt. J.J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	28.76	730.6	28.83	732.2	34.9	1.6	56	sse.	9	4			10			0.217	5.5	raining	
Brono	28.64	727.5	28.68	728.5	28.8	— 1.8	76	sw.			6		10			0.024	0.6	snowing	
Christiania	28.85	732.7	29.00	736.5	28.0	— 2.2	79	ene.	0	0			8			0	0	foggy	
Gjæsvær	28.54	724.9	28.56	725.5	18.7	— 7.4		calm			0		8			0	0		
Lodingen	28.51	724.2	28.56	725.4	27.0	— 2.8	94	ssw.			2		10			0.059	1.5		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.37	771.5	30.47	773.8	63.1	17.3	68	sw.	2.5	1.1			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.00	762.1	30.35	770.8	53.2	11.8	74	wsw.	8.1	3.6			10			0.118	3.0		The Staff.
Ponta Delgada, Azores	30.35	770.8	30.42	772.6	60.8	16.0	89	wnw.	12.5	5.6			3			0.102	2.6		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.12	765.1	30.15	765.9	68.2	20.1	68	ene.			5		5			0	0		
San Salvador, Congo	28.12	714.3	29.92	760.0	87.3	30.7	49	sw.			1		7			0	0		
Serra da Estrella	25.37	644.5	30.20	769.6	32.4	0.2	83	wsw.	13.6	6.1			5			0.992	25.2		
RUSSIAN.																			
Akmolinski	28.71	729.1	29.83	757.7	27.1	— 2.7	100	sw.	31	14			10 n			0.020	0.5		Major K. Lasarew.
Archangel	29.02	737.2	29.04	737.7	24.4	— 4.2	93	s.	18	8			10			0.055	1.4		Capt. Sselliwerstow
Ashurada	30.15	765.8	30.06	763.4	52.5	11.4	79	wsw.	9	4			10 k			0	0	light clouds	
Astrakhan	30.24	768.2	30.17	766.3	42.8	6.0	87	calm	0	0			10			0.098	2.5	hvy. clouds	Capt. Wisganow.
Baku	30.17	766.3	30.12	765.1	45.7	7.6	79	calm	0	0		4 cs	0			0	0		
Barnaul	29.63	752.7	30.17	766.3	20.1	— 6.6	79	sw.	13	6			10			0.157	4.0		Meteorological Office.
Bielosersk	29.08	738.6	29.57	751.0	23.2	— 4.9	83	ssw.	16	7			10 s					snow-drift	
Dorpat	29.15	740.4	29.40	746.7	33.1	0.6	92	ssw.	18	8			10 n			0.004	0.1		Observatory.
Ekaterinburg	28.62	727.0	29.63	752.6	20.3	— 6.5	79	wsw.	22	10			0	7 n		0	0		Meteorological Obs'y.
Elissawetgrad	29.76	756.0	30.24	768.0	34.5	1.4	76	W	2	1			0	1 k		0	0		
Kasan	29.74	755.5	30.04	762.9	17.2	— 8.2	85	sw.	4	2			10			0	0		Observatory.
Kem	28.82	732.1	28.87	733.4	33.1	0.6	87	ssw.	18	8			10 n			0.102	2.6	hvy clouds	
Kertch	30.22	767.7	30.25	768.3	35.6	2.0	73	calm	0	0		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.46	748.2	30.12	765.1	32.9	0.5	64	ssw.	7	3		0	1 ks			blank	blank		Observatory.
Koslov	29.54	750.4	30.10	764.4	10.6	— 11.9	77	ne.	4	2		0	0			0	0		
Lgov	29.52	749.8	30.15	765.7	24.1	— 4.4	89	nw.	4	2			10			0.091	2.3	snowing	R. I. Ssaweljew, Engin'r.
Libau	29.47	748.4	29.49	749.0	37.9	3.3	87	ssw.	16	7			10			0.091	2.3		L. Quass.
Lugan	29.88	759.0	30.10	764.4	31.8	— 0.1	83	wsw.	22	10			10			0	0		Meteorological Obs'y.
Moscow	29.50	749.4	30.03	762.7	12.4	— 10.9	74	sw.	2	1		0	0			0	0		Meteorological Obs'y.
Nertschinsk	27.65	702.4	30.27	768.8	— 13.4	— 25.2	88	calm	0	0			8			0	0	light clouds	

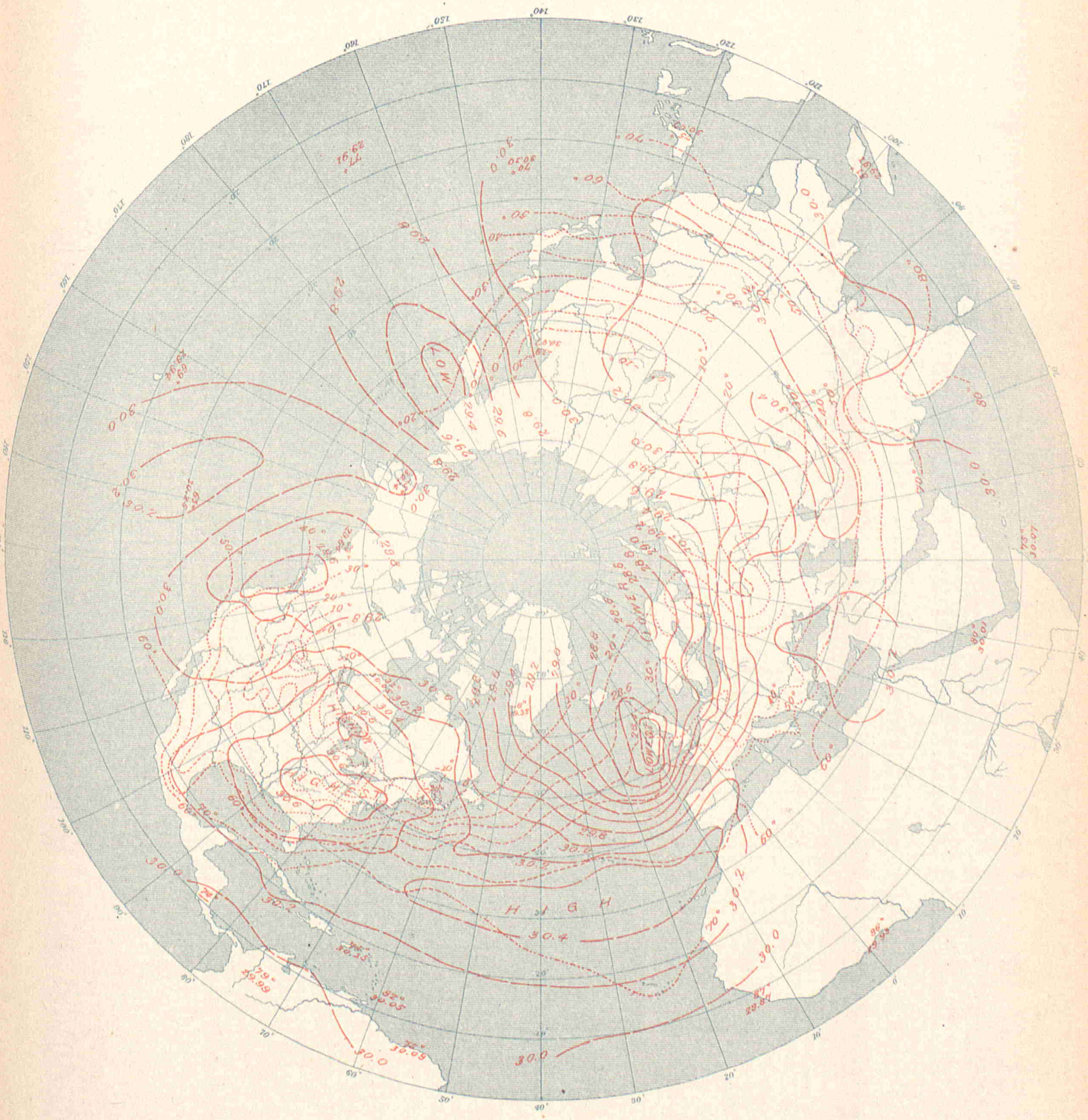
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Nikolaiev	30.18	766.6	30.25	768.4	36.0	2.2	75	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolievsk-on-the-Amoor	29.98	761.5	30.07	763.7	—10.1	—28.4	81	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.10	764.6	30.24	768.2	30.7	— 0.7	58	sw.	3.4	1.5	.....	0	0	.....	.....	0	0	.....	Physical Observatory
Petro-Alexandrovsk	30.01	762.3	30.38	771.6	41.2	5.1	71	se.	1.1	0.5	.....	0	2 ks	.....	.....	.....	.....	.....	
Petrozavodsk	29.00	736.6	29.20	741.7	31.5	— 0.3	89	ssw.	45	20	.....	.....	10	.....	.....	0.295	7.5	.....	Dr. Bergmann.
Pinsk	29.50	749.3	30.02	762.4	35.8	2.1	66	ssw	22	10	.....	0	0	.....	.....	0.012	0.3	.....	
Poti	30.16	766.0	30.19	766.8	48.4	9.1	79	e.	4	2	.....	.....	10 n	.....	.....	0	0	.....	
St. Petersburg	29.30	744.1	29.32	744.7	34.3	1.3	82	ssw.	20	9	.....	.....	10 n	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.80	706.2	30.40	772.1	34.2	1.2	82	e.	7.8	3.5	.....	.....	10 n	.....	.....	.....	.....	.....	
Semipalatinsk	29.56	750.7	30.26	768.7	21.7	— 5.7	93	sw.	11	5	.....	.....	10	.....	.....	0.008	0.2	.....	Major Lasarew
Sevastopol	30.04	763.1	30.26	768.7	42.3	5.7	42	ne.	11	5	.....	0	2 s	.....	.....	0	0	.....	
Starol Bykhov	29.43	747.6	30.02	762.4	28.2	— 2.1	79	se.	9	4	.....	3 c	0	.....	.....	0	0	light clouds	
Tashkend, Laboratory	28.66	727.9	30.42	772.6	34.9	1.6	87	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	28.73	729.8	30.19	766.7	45.7	7.6	45	nnw.	7	3	.....	9 cs	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.77	705.3	30.45	773.4	23.7	— 4.6	84	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	
Viatka	29.20	741.7	29.88	759.0	11.1	—11.6	93	w.	7	3	.....	.....	1	.....	.....	0	0	.....	
Vladivostock	29.96	761.0	30.03	762.7	18.5	— 7.5	89	se.	9	4	.....	0	7 k	.....	.....	0	0	.....	
Warsaw	29.38	746.2	29.82	757.3	34.9	1.6	82	ssw.	18	8	.....	c	3 ks	.....	.....	0	0	light clouds	Astronomical Obs'y.
Yeniseisk	29.91	759.8	30.23	767.8	10.6	—11.9	88	ne.	2	1	.....	.....	10	.....	.....	0.020	0.5	snowing	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.36	745.7	29.95	760.7	11.7	—11.3	58	ssw.	12	5.4	.....	1 c	0	.....	.....	0	0	clear	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.05	763.2	30.16	766.0	54.7	12.6	63	wsw.	.....	.....	.....	.....	.....	.....	.....	0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	29.99	761.7	30.05	763.2	55.0	12.8	49	sw.	1.1	0.5	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.19	690.5	30.32	770.2	32.0	0.0	89	s.	5.6	2.5	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	28.00	711.2	30.31	769.9	42.6	5.9	88	sw.	10.7	4.8	.....	.....	10	.....	.....	0.035	0.9	covered	The Staff.
Murcia, Met. Obs'y	30.07	763.7	30.19	766.8	60.4	15.8	65	s.	3.4	1.5	.....	2	1	w.	.....	0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.08	738.7	29.99	761.8	48.6	9.2	88	s.	28.0	12.5	.....	.....	10	.....	.....	0.039	1.0	misty	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.17	766.2	30.23	767.9	72.2	22.3	88	n.	11.9	5.3	.....	0	6 k;ks	.....	ne.	0.13	3.3	fair	Benito Vines, S. J.
Manilla, Philippine Islands	30.01	762.2	30.07	763.7	75.0	23.9	81	ne.	6.6	3.0	.....	1 ck	3 ks	.....	.....	0	0	fair	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.32	770.0	30.42	772.6	54.9	12.7	71	wnw.	2.8	1.3	.....	0	2	.....	nw.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	30.06	763.6	30.15	765.9	74.1	23.4	80	se.	5.8	2.6	.....	2 c	4 kn	se.	se.	0.091	2.3	cloudy	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	28.70	729.0	28.74	730.0	11.5	—11.4	100	w.	.....	.....	2	.....	1	.....	.....	0.197	5.0	.....	
Umea	28.80	731.6	28.85	732.9	22.6	— 5.2	85	wsw.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Hernosand	28.92	734.6	28.97	735.9	27.7	— 2.4	71	calm	.....	.....	0	.....	5	.....	.....	0.008	0.2	.....	
Stockholm	28.94	735.0	29.11	739.5	37.4	3.0	66	sw.	.....	.....	6	.....	7	.....	.....	0	0	.....	
Wisby	29.22	742.1	29.28	743.6	38.5	3.6	77	wsw.	.....	.....	6	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	28.98	736.0	29.06	738.2	33.8	1.0	89	sw.	14.3	6.4	.....	.....	10	.....	sw.	0.051	1.3	.....	H. H. Hildebrandesson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.18	766.6	53.2	11.8	66	ese.	3	1.5	.....	.....	4	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.10	764.6	56.3	13.5	.....	s.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.28	769.1	59.7	15.4	52	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.58	776.7	30.67	779.0	— 3	—19.4	42	ne.	4	1.8	.....	0	fg;sk	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.87	758.7	30.58	776.7	5.2	—14.9	79	w.	5	2.2	.....	0	1 s	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.88	631.9	30.00	762.0	34.0	1.1	92	e.	2	0.9	.....	.....	10 n	.....	.....	0.03	0.8	light snow	J. B. Turton.
Assinnaboine, Ft., Montana	26.92	683.8	29.96	761.0	— 4.2	—20.1	100	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Newman.
Atlanta, Georgia	29.33	745.0	30.56	776.2	23.2	— 4.9	98	n.	7	3.1	.....	.....	fg.	.....	.....	0	0	dense fog	S. W. Beall.
Atlantic City, New Jersey	30.06	763.5	30.07	763.8	12.5	—10.8	61	w.	9	4.0	.....	2 k	0	w.	.....	inap.	inap.	clear	B. A. Blundon.
Augusta, Georgia	30.39	771.9	30.59	777.0	38	3.3	82	ne.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	W. J. Evans.
Baltimore, Maryland	30.65	778.5	30.70	779.8	18.0	— 7.8	48	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.56	776.2	30.58	776.7	12.4	—10.9	61	n.	18	8.0	.....	0	1 s	.....	.....	0	0	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.52	724.4	30.26	768.6	12.5	—10.8	73	se.	9	4.0	.....	0	0	.....	.....	inap.	inap.	clear	A. Pritchard.
Benton, Fort, Montana	26.94	684.3	29.92	760.0	4.0	—15.6	52	calm	0	0	.....	0	0	.....	.....	0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.28	718.3	30.28	769.1	10.5	—11.9	80	e.	9	4.0	.....	0	7 s	.....	e.	0.02	0.5	fair	B. O. Lenoir.
Block Island, Rhode Island	30.48	774.2	30.50	774.7	18.5	— 7.5	75	n.	13	5.8	.....	2 cs	0	w.	.....	0	0	clear	J. T. Elker.
Boise City, Idaho	26.93	684.0	29.86	758.4	27	— 2.8	88	w.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	James Kenealy.
Boston, Massachusetts	30.34	770.6	30.51	774.9	11.0	—11.7	61	nw.	16	7.2	.....	0	3 s	.....	w.	inap.	inap.	clear	O. B. Cole.
Brownsville, Texas	30.28	769.1	30.34	770.6	54.0	12.2	80	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	John McGlone.
Buffalo, New York	29.83	757.7	30.62	777.7	6.7	—14.1	85	sw.	12	5.4	.....	.....	10 s	.....	w.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.90	708.6	30.13	765.3	10	—12.2	89	e.	11	4.9	.....	0	4 s	.....	.....	inap.	inap.	fair	A. Schneider.
Cairo, Illinois	30.26	768.6	30.68	779.3	21.0	— 6.1	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.34	745.2	29.54	750.3	39.0	3.9	89	se.	24	10.7	.....	.....	10 s	.....	.....	0.87	22.1	cloudy	J. H. Young.
Cape Henry, Virginia	30.58	776.7	30.60	777.2	25.0	— 3.9	64	n.	28	12.5	.....	0	3 s	.....	.....	0.11	2.8	fair	A. K. Alderson.
Cape May, New Jersey	30.59	777.0	30.62	777.7	17.0	— 8.3	58	nw.	25	11.2	.....	0	0	.....	.....	0	0	clear	W. E. Smith.
Cape Mendocino, California	28.88	733.5	29.58	751.3	43	6.1	93	se.	40	17.9	.....	.....	10 s	.....	.....	0.12	3.0	threatening	A. P. Leavitt.
Cedar Keys, Florida	30.43	772.9	30.45	773.4	38.0	3.3	82	n.	12	5.4	.....	0	0	.....	.....	0.10	2.5	clear	G. W. Davis.
Charleston, S. Carolina	30.42	772.7	30.48	774.2	36.0	2.2	89	n.	12	5.4	.....	0	0	.....	.....	0.21	5.3	clear	J. H. Smith.
Charlotte, N. Carolina	29.66	753.4	30.55	776.0	28.0	— 2.2	80	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.77	756.1	30.63	778.0	23.5	— 4.7	67	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.80	604.5	30.07	763.8	18.9	— 7.3	78	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.85	759.2	30.60	777.2	14.9	— 9.5	65	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.61	777.5	30.63	778.0	19.0	— 7.2	76	nw.	17	7.6	.....	hz.	0	.....	.....	0	0	clear	C. F. Dickens.
Cincinnati, Ohio	30.03	762.7	30.72	780.3	6.9	—13.9	76	se.	1	0.4	.....	3 cs	0	.....	.....	0	0	clear	L. Dunne.
Cleveland, Ohio	29.80	758.4	30.64	778.2	3.0	—16.1	72	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. Line.
Columbus, Ohio	29.81	757.2	30.71	780.0	— 5.5	—20.8	81	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. T. Williams.
Concho, Fort, Texas	28.35	720.1	30.37	771.4	32.0	0.0	88	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. King.
Custer, Fort, Montana	26.63	676.4	30.01	762.2	— 5	—20.6	65	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. J. Daily.
Davenport, Iowa	29.88	758.9	30.58	776.7	14.1	— 9.9	64	sw.	1	0.4	.....	4 cs	hz.	.....	.....	0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	30.17	766.3	34.9	1.6	73	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. Williams.
Dayton, Washington Ty	28.02	711.7	29.83	757.7	24.6	— 4.1	94	n.	3	1.3	.....	0	4 s	.....	.....	inap.	inap.	fair	H. S. Blandford.
Deadwood, Dakota	25.16	639.1	30.11	764.8	26.0	— 3.3	84	sw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	G. Kingsbury.
Delaware Breakwater, Del	30.61	777.5	30.63	778.0	20.4	— 6.4	76	nw.	28	12.5	.....	hz.	0	.....	.....	inap.	inap.	clear	G. A. Martin.
Denver, Colorado	24.55	623.6	30.07	763.8	21.2	— 6.0	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.54	750.3	30.52	775.2	17	— 8.3	67	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.87	758.7	30.63	778.0	18.1	— 7.7	69	s.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	N. B. Conger.
Dodge City, Kansas	27.51	698.7	30.26	768.6	26.3	— 3.2	64	se.	18	8.0	.....	hz.	0	.....	.....	0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.82	757.4	30.59	777.0	11	—11.7	55	s.	2	0.9	.....	0	5 s	.....	sw.	0	0	fair	J. Harvey Smith
Duluth, Minnesota	29.76	755.9	30.57	776.5	1.0	—17.2	85	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	E. R. Brace.
Eastport, Maine	30.36	771.1	30.43	772.9	2.5	—10.4	72	nw.	9	4.0	.....	0	2 s	.....	n.	0	0	clear	D. O. Murphy.
Elliott, Fort, Texas	27.39	695.7	30.32	770.1	27	— 2.8	77	se.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.24	666.5	30.12	765.0	41.7	5.4	52	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.88	758.9	30.65	778.5	10.5	—11.9	80	sw.	2	0.9	.....	8 cs	0	w.	.....	0	0	cloudy	O. A. Shaw.
Escanaba, Michigan	29.88	758.9	30.60	777.2	— 2.5	—19.2	81	n.	2	0.9	.....	0	0	.....	.....	0.04	1.0	clear	L. M. Pindell.
Fort Smith, Arkansas	30.03	762.7	30.53	775.4	23.5	— 4.7	73	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Galveston, Texas	30.42	772.7	30.46	773.7	42.5	5.8	82	se.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	E. O'C. MacInerney
Grand Haven, Michigan	29.86	758.4	30.57	770.5	24.5	— 4.2	80	n	1	0.4	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.12	638.0	30.02	762.5	34.7	1.5	91	s.	4	1.8	.....	.....	10 n	.....	s.	0.19	4.8	light rain	Chas. A. Read.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.50	774.7	30.51	774.9	33.0	0.6	78	nw.	26	11.6	.....	0	4 s	.....	sw.	0.96	24.4	fair	R. M. Crawford.
Helena, Montana	25.58	649.7	29.95	760.7	4	—15.6	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. W. Morrison.
Huron, Dakota	28.84	732.5	30.38	771.6	13	—10.6	78	se.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.81	757.2	30.65	778.5	12.3	—10.9	54	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.37	771.4	30.40	772.1	40.0	4.4	89	ne.	18	8.0	.....	0	3 s	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.42	772.7	30.48	774.2	42.2	5.7	91	nw.	1	0.4	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	J. W. Smith.
Keokuk, Iowa	29.85	758.2	30.55	776.0	13.2	—10.4	63	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.23	767.8	30.25	768.3	65.5	18.6	97	ne.	14	6.3	.....	.....	10s;fg	.....	.....	0.12	3.0	cloudy	A. W. Browne.
Kittyhawk, North Carolina	30.53	775.4	30.55	776.0	30.4	— 0.9	73	ne.	38	17.0	.....	3 ck	0	ne.	.....	0.61	15.5	clear	Wesley Blake.
Knoxville, Tennessee	29.56	750.8	30.64	778.2	18	— 7.8	97	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.72	754.9	30.56	776.2	10	—12.2	80	sw.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.54	750.3	30.50	774.7	24	— 4.4	67	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	28.98	736.1	29.85	758.2	28.0	— 2.2	77	calm	0	0	.....	.....	10 n	.....	.....	inap.	inap.	light snow	C. E. Butler.
Little Rock, Arkansas	30.26	768.6	30.59	777.0	23.0	— 5.0	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.50	749.3	29.90	759.4	48.2	9.0	83	e.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	30.09	764.3	30.68	779.3	15.1	— 9.4	76	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.90	759.4	30.62	777.7	21.0	— 6.1	70	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.87	758.7	30.57	776.5	6.2	—14.3	78	sw.	7	3.1	.....	0	3 s	.....	sw.	0.50	12.7	clear	D. B. Notson.
Macon, Fort, North Carolina	30.51	774.9	30.52	775.2	30.5	— 0.8	83	n.	24	10.7	.....	0	4 s	.....	n.	0.33	8.4	fair	William Daly.
Maginnis, Fort, Montana	25.28	642.1	30.05	763.3	24.1	— 4.4	30	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.80	756.9	30.58	776.7	2.5	—16.4	72	w.	8	3.6	.....	0	1 k	.....	.....	0.01	0.3	clear	J. Gilligan.
Memphis, Tennessee	30.26	768.6	30.62	777.7	20.5	— 6.4	84	se.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.79	756.7	30.59	777.0	16.2	— 8.8	74	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	S. W. Rhode.
Mobile, Alabama	30.51	774.9	30.55	776.0	23.3	— 4.8	79	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Montgomery, Alabama	30.34	770.6	30.58	776.7	23	— 5.0	80	n.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.35	745.5	30.46	773.7	— 3	—19.4	100	se.	8	3.6	.....	0	0	.....	.....	0	0	clear.	H. Bessant.
Mt. Washington, N. H.	23.64	600.4	30.27	768.8	— 6.3	—21.3	49	nw.	56	25.0	.....	0	2 s	.....	.....	inap.	inap.	clear	Edwd. A. Beals.
Nashville, Tennessee	30.04	763.0	30.65	778.5	16.5	— 8.6	91	n.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	L. N. Jesunofsky
New Haven, Connecticut	30.43	772.9	30.55	776.0	7	—13.9	71	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.49	774.4	30.54	775.7	12.7	—10.7	80	nw.	5	2.2	.....	0	2 s	.....	w.	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.47	773.9	30.53	775.4	30.3	— 0.9	69	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	M. Herman.
New York, New York	30.41	772.4	30.60	777.2	10.5	—11.9	72	nw	5	2.2	.....	0	0	.....	.....	0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.56	776.2	30.59	777.0	25.8	— 3.4	86	n.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	Wm. Davis.
North Platte, Nebraska	27.08	687.8	30.20	767.1	20.6	— 6.3	78	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	29.60	751.8	29.64	752.8	37.0	2.8	89	s.	1	0.4	.....	hz.	0	.....	.....	0.14	3.6	clear	J. Dascomb
Omaha, Nebraska	29.18	741.2	30.45	773.4	21.5	— 5.8	70	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	30.26	768.6	30.61	777.5	3.4	—15.9	47	s.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. G. Linsley.
Palestine, Texas	29.95	760.7	30.53	775.4	27.4	— 2.0	61	e.	5	2.2	.....	0	3 s	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.52	775.2	30.55	776.0	27.1	— 2.7	69	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	30.55	776.0	30.66	778.7	13.3	—10.4	74	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.49	444.2	30.19	766.8	3.0	—16.1	83	w.	18	8.0	.....	.....	10 s	.....	.....	0	0	cloudy	H. Hall.
Pittsburg, Pennsylvania	29.85	758.2	30.70	779.8	— 1.8	—18.8	100	n.	4	1.8	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	O. D. Stewart
Poplar River, Montana	.....	.....	.....	.....	3.1	—16.1	85	w.	.....	.....	1	3 c	1 s	.....	.....	0	0	fair	G. A. Garden.
Port Huron, Michigan	29.82	757.4	30.56	776.2	13.0	—10.6	87	s.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.44	773.2	30.49	774.4	14.0	—10.0	80	nw.	6	2.7	.....	9 ck	0	nw.	.....	0.06	1.5	cloudy	W. W. Eichelberger.
Portland, Oregon	29.58	751.3	29.65	753.1	34.0	1.1	85	calm	0	0	.....	.....	10 n	.....	.....	0.33	8.4	light rain	M. L. Hearne.
Prescott, Arizona	24.58	624.3	29.96	761.0	36.0	2.2	72	s	8	3.6	.....	0	8 s	.....	s.	0	0	cloudy	N. D. Lane.
Provincetown, Mass	30.44	773.2	30.46	773.7	24.8	— 4.0	91	nw.	11	4.9	.....	.....	10 ks	.....	n.	inap.	inap.	cloudy	C. N. Kitchel.
Red Bluff, California	29.51	749.5	29.88	758.9	41	5.0	96	calm	0	0	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	J. R. Williams.
Rio Grande City, Texas	30.13	765.3	30.38	771.6	50.2	10.1	76	e.	8	3.6	.....	.....	10 ks	.....	se.	0	0	cloudy	L. G. Schultz.
Rochester, N. Y	29.88	758.9	30.60	777.2	2.5	—16.4	75	sw.	11	4.9	.....	hz.	hz.	.....	.....	0	0	dense haze	E. W. McGann.
Roseburg, Oregon	29.10	739.1	29.67	753.6	36.4	2.4	89	se.	1	0.4	.....	0	9 s	.....	w.	0.17	4.3	cloudy	J. J. Nanry.
Sacramento, California	29.80	756.9	29.88	758.9	39.0	3.9	94	se.	4	1.8	.....	0	0	.....	.....	0.35	8.9	clear	J. A. Barwick
St. Louis, Missouri	29.96	761.0	30.62	777.7	26.7	— 2.9	82	s.	9	4.0	.....	0	sk.	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.10	764.5	30.14	765.5	— 5	—20.6	100	ne.	.....	.....	2	0	5	.....	.....	0	0	fair	Fred. H. Clarke
St. Paul, Minnesota	29.59	751.6	30.53	775.4	— 1.0	—18.3	100	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.49	749.0	30.47	773.9	— 2	—18.9	88	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.37	644.4	29.94	760.5	30.5	— 0.8	59	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Craig.
San Diego, California	29.81	757.2	29.88	758.9	51.7	10.9	90	nw.	3	1.3	.....	0	3 k	.....	sw.	0.13	3.3	clear	F. R. Day.
Sandusky, Ohio	29.92	760.0	30.64	778.2	11	—11.7	61	sw.	0	2.7	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.57	776.5	30.60	777.2	12.1	—11.1	55	nw.	24	10.7	.....	0	0	.....	.....	0	0	clear	V. P. Chappel.
Sanford, Florida	30.34	770.6	30.39	771.9	49.0	9.4	89	n.	17	7.6	.....	.....	10 ks	.....	n.	0.12	3.0	cloudy	J. B. Marbury
San Francisco, California	29.80	756.9	29.87	758.7	46.3	7.9	85	w.	8	3.6	.....	.....	10 s	.....	sw.	0.08	2.0	threatening	N. Gorom.
Savannah, Georgia	30.41	772.4	30.51	774.9	41.3	5.2	77	n.	11	4.9	.....	.....	10 s	.....	ne.	0.01	0.3	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.05	661.7	29.91	759.7	15	— 9.4	67	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.28	769.1	30.54	775.7	22.0	— 5.6	64	e.	3	1.3	.....	0	3 s	.....	ne.	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.57	751.1	29.64	752.8	33	0.6	60	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. W. Fickett.
Smithville North Carolina	30.49	774.4	30.53	775.4	31.3	— 0.4	84	n.	11	4.9	.....	0	1 s	.....	.....	0.58	14.7	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.68	703.1	29.82	757.4	26	— 3.3	88	calm	0	0	.....	0	6 k	.....	.....	inap.	inap.	fair	D. Moore.
Springfield, Illinois	29.88	758.9	30.61	777.5	19.9	— 6.7	82	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.06	687.3	30.20	767.1	32.0	0.0	81	s.	21	9.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	29.39	746.5	.....	.....	40.2	4.6	93	e.	12	5.4	.....	.....	10 s	.....	e.	0.44	11.2	cloudy	R. Connor.
Thomas, Camp, Arizona	27.21	691.1	30.04	763.0	42.5	5.8	93	e.	.....	.....	1	.....	10 n	.....	.....	0.03	0.8	light rain	R. C. Lord.
Toledo, Ohio	29.87	758.7	30.61	777.5	10	—12.2	80	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	A. Buell.
Unalaska, Alaska	29.98	761.5	30.00	762.0	36	2.2	69	s.	8	3.6	.....	.....	10 s	.....	s.	0.05	1.3	threatening	Samuel Applegate
Vicksburg, Mississippi	30.32	770.1	30.59	777.0	25.0	— 3.9	64	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. Dill.
Washington, D. C.	30.57	776.5	30.69	779.5	15.8	— 9.0	65	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.90	657.8	30.03	762.7	20	— 6.7	94	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	30.49	774.4	30.55	776.0	32.0	0.0	78	n.	10	4.5	.....	0	0	.....	.....	0.48	12.2	clear	L. H. Albrecht.
Yankton, Dakota	28.98	736.1	30.40	772.1	12.7	—10.7	66	e.	1	0.4	.....	3 c	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	29.69	754.1	29.84	757.9	50.9	10.5	82	ne.	1	0.4	.....	0	4 s	.....	w.	0	0	fair	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.20	741.7	29.22	742.2	28.2	— 2.1	73	n.	10	4.5	.....	.....	10 n	.....	.....	inap.	inap.	cloudy	George Cherulick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	76	24.4	.....	ne.	.....	.....	1	2 cs	5 ks	.....	ne.	0.16	4.1	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.01	559.0	.....	.....	53.6	12.0	83	calm	0	0	.....	.....	fg.	.....	.....	0.012	0.3	.....	Joaquin Gomez.
Chimo, Fort, Ungava	30.04	763.0	30.20	767.1	—33	—36.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.14	765.5	69.6	20.9	85	n.	1	0.4	.....	1 cs	8 s	.....	ne.	0	0	cloudy	Robert Johnston.
Paramaribo, S. A.	30.09	764.3	30.09	764.3	74.5	23.6	93	e.	.....	.....	2	.....	10 n	e.	e.	0.320	8.1	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.43	747.5	29.99	761.7	79	26.1	89	calm	.....	.....	0	.....	6 ks	.....	calm	blank	blank	fair	Francisco J. Olsnero.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	86	ne.	.....	.....	3.5	.....	.....	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	29.98	761.5	30.05	763.3	—31.0	—35.0	.....	w.	8	3.6	.....	1 c	0	w.	.....	0	0	.....	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.93	760.2	29.94	760.5	78.8	26.0	82	n.	10.5	4.7	.....	0	4 k	.....	n.	.....	.....	fair	P. Fasiani.
Naós, Bay of Panama	29.93	760.1	29.99	761.8	75.9	24.4	88	n.	.....	.....	3	0	2 ks	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic																		
S.S. Assyrian Monarch, N. 45° 26′, W. 34° 40′†	29.97	761.2				nw.			5		6		n.	4 h'r	4 h'r	high	nw.	fair.
S. S. Alleghany, Boston, Mass†	30.59	777.0	12	—11.1		nnw.			1		0			0	0			clear.
Schr Anna A. Holton, N. 37° 45′, W. 74° 21′			30	— 1.1		n.			6		0			8 h'r	8 h'r	r'gh	n.	clear.
S. S. Alps, N. 24° 38′, W. 67° 37′			78	25.6		e.			4		4		e.	0	0			
S. S. British Prince, N. 44° 00′ W. 59° 07′			30	— 1.1		nnw.			4		10		nw.	0	0			he'vy snow.
S. S. Circassian, N. 43° 57′, W. 64° 18′	30.36	771.1	14	—10.0		n.			4		6		n			3	ne.	showery.
S. S. City of Augusta, Savannah, Ga						ese.			6		8		ne.	0	0			cloudy.
S. S. Denmark, New York, N.Y†	30.60	777.2	10	—12.2	100	n.			4		6		w.	3 h'r	3 h'r			fair.
S. S. Daniel Steinmann, Halifax, N. S.			15?	—9.4?		n.			2		0			0	0			
S. S. France, N. 43° 1′ W. 57° 36′	30.26	768.5				n.			2		3		n.			sm'h	n.	clear.
S. S. Gen. Werder, N. 45° 26′ W. 48° 02′						wnw.			3–4		9		wnw.	4 h'r	4 h'r	mod.	sw.w	cloudy.
Bg. Lilian, N. 38° 30′, W. 73° 10′†	30.50	774.7				nnw.			5		9		n.	0	0	mod.	var.	cloudy.
S. S. Landaff City, N. 41° 42′, W. 64° 10′*†	30.28	769.1	28	— 2.2		n.			5		10		nw.	2 h'r	2 h'r	mod.		dull.
S. S. Lessing, N. 40° 32′, W. 62° 21′			39	3.9		n.			4		10		n.	8 h'r	8 h'r	mod.	n.	overcast.
S. S. Mentmore, N. 38° 30′, W. 70° 55′						n.			7		10			0	0	mod.		gloomy.
S. S. New York, N. 38° 16′ W. 74° 30′*†	30.56	776.2	40	4.4		n.			6		3		n.			high	n.	clear
S. S. Nova Scotian, N. 40° 24′, W. 57° 26′	30.20	767.1	57	13.9		var.			2		10		sw.			mod.	sw.	raining.
S. S. Pavonia, N. 46° 28′, W. 39° 00′	30.00	762.0	45	7.2	76	w.			6		8		w.	5 h'r	5 h'r	r'gh	var.	cloudy.
S. S. Picqua, Boston, Mass *†	30.50	774.7	17	— 8.3		nw.			2		0			0	0			clear.
S. S. Romano, New York Harbor, N Y			10	—12.2		nne.			4		5		nne.	0	0			fair.
Bk. Rosina, N. 38° 29′, W. 74° 42′			36	2.2		n.			6		0			0	0	mod.	n.	clear.
Bgt. Sunlight, N. 31° 13′, W. 73° 10′†	30.26	768.6				sw.			3		5		nnw.	0	0	mod.	wnw.	fair.
S. S. Thingvalla, N. 43° 12′, W. 59° 05′			29.3	— 1.5		nnw.			2		10		nnw.	1 h'r	1 h'r	mod.	nnw.	cloudy.
S. S. Valencia, N. 18° 04′, W. 68° 03′†	30.15	765.8	77.5	25.3	82	ne.			6		7		nne.	1 h'r	1 h'r	h'vy	ne.	fair.
S. S. Westphalia, New York, N.Y	30.60	777.2	6	—14.4	100	n.			3		2			0	0			clear.
S. S. Zaandam, N. 41° 39′, W. 64° 02′			48.6	9.2	80	nnw.			5		10			6 h'r	6 h'r	mod.	nw.	cloudy.
Bk. Ariadne, New York, N Y	30.56	776.2	11	—11.7		nnw.			1		0			0	c			clear.
Schr. Annie R Lewis, Cienfuegos, Cuba, W. I†	30.28	769.1	72	22.2		nne.			1		4		ne.	3 h'r	3 h'r			fair.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.27	768.8				calm			0		5		calm	0	0	sm'h		foggy.
Bk. Aureola, N. 24° 00′, W. 65° 20′ †	30.22	767.6	88?	31.1?		ne.			6		4		nne.	0	0	mod	e.	fine.
U. S. S. Alliance, St. Nicholas, Hayti, W.I	30.13	765.3	74	23.3	68	e.			1		0			0	0	sm'h		clear.
S. S. Britannic, N. 51° 20′, W. 11° 20′			45	7.2		wnw			8		9		nw.	5 h'r	5 h'r	high	nw.	h'y squalls
S. S. British Princess, N. 51° 10′ W. 12° 56′†	28.43	722.1	48	8.9		w.			9	9 ck		wnw.		18 h'r	18 h'r	10	wnw.	clearing
S. S. Chalmette, New York, N.Y			10	—12.2		nnw.			5		0			0	0			clear.
S. S. Donau, N. 49° 43′, W. 16° 31′			49.1	9.5		wnw.			7–9		5		wnw.	4 h'r	4 h'r	high	w.nw	hail sq'ls.
S. S. England, N. 51° 10′, W. 12° 16′	28.45	722 6				wnw.			9		8		wnw.	8 h'r	8 h'r	h'vy	wnw	squally.
Schr. Ellen Crusoe, N. 37° 04′, W. 73° 41′ *†	30.47	773 9				n.							n.	6 h'r	6 h'r	long		cloudy.
S. S. Gallia, off Liverpool. Eng	28.72	729.5				w.			8–9		8		w.	sh'rs	sh'rs	short	h'vy	h'vy squalls.
Bg. George. N. 25° 30′, W. 69° 50′ *†	30.29	769.4				e.			4		0			0	0	mod.	ese.	clear.
S. S. Grecian, N. 49° 48′, E. 0° 10′	29.33	745.0	49	9.4	85	wsw.			6		10		w.	3 h'r	3 h'r	high	sw.	raining.
S. S. Holland, N. 50° 01′, W 22° 55′*	29.01	736.8	41	5.0		w.			8		5		w.	4 h'r	4 h'r	h'vy	w.	hailing.
Bg. John Welsh, jr., Mobile, Ala†	30.52	775.2				ne.			4				ne.					clear.
S. S. Lone Star, N. 32° 31′, W. 79° 03′*†	30.42	772.7	52	11.1		nne.			4		10		nne.	18 h'r	18 h'r	r'gh	nne.	cloudy.
S. S. Muriel, Dominica, .I	30.13	765.3	78	25.6		ene.			3		0			0	0			clear.
S. S. Ontario, N. 47° 38′, W. 44° 34′	29.97	761.2	25	— 3.9		w.			5		8		wnw.	6 h'r	6 h'r	sm'h	nw.	overcast.
S. S. Orinoco, N. 37° 20′, W. 70° 00′			56	13.3		nne.			3		10		nne.	12 h'r	12 h'r	light	ene.	raining.
S. S. Rhaetia, N. 49° 30′ W. 6° 02′	29.06	738.1	49	9.4	93	sw.			8		10			7 h'r	7 h'r		wsw.	squally.
Ft. Saga, N. 33° 39′, W. 72° 50′			60	15.6		var.			4–8		8		var.	9½ hr	9½ hr	r'gh	var.	raining.
S. S. Salerno, N. 49° 06′, W. 17° 01′ †	28.80	731.5	42	5.6		w.			10		10		w.	0	0	h'vy	w.	h'vysqualls
S. S. St. Laurent, N. 49° 40′, W. 0° 45′			48.2	9.		sw.			6		10		sw.	4 h'r	4 h'r	large	wsw.	overcast.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.19	766.8	74	23.3	72	e.			1		1		e.	0	0			clear.
U. S. S. Tennessee, Aspinwall, U. S. C	29.96	761.0	79	26.1	82	n.	13	5.8			5		n.	0.021	0.5	gr'd	n.	fair.
U. S. S. Vandalia, La Guayra, Venezuela	30.01	762.2	73	22.8	81	e.			1		8							cloudy.
S. S. Venetian, N. 53° 13′, W 5° 25′*	28.80	731.5	47	8.3		ssw.			10		10		ssw.	8 h'r	8 h'r	r'gh	ssw.	threatening.
S. S. Wyoming, Liverpool, Eng	28.81	731.8	39	3.9		sse.			6		8		sse.	6 h'r	6 h'r			threatening.
S. S. Westernland, Antwerp, Belgium	29.43	747.5	48	8.9		w.			6		9		w.	6 h'r	6 h'r			dull.
S. S. Zeeland, N. 48° 24′, W. 27° 33′			50	10.0		wsw.			9		8		wsw.	4 h'r	4 h'r	high	w.	overcast.
S. S. City of Berlin, N. 43° 40′, W. 58° 16′			30	— 1.1		n.			3		10					high	sw.	overcast.
U. S. Navy Yard, Portsmouth, N. H.*	30.56	776.2	13	—10.6	81	nw.	9	4.0			10		nw.	0	0			cloudy.
U. S. S. Kearsarge, Leghorn, Italy	30.03	762.7	52	11.1	60	calm			0		0							clear.
U. S. S. Lancaster, Leghorn, Italy			55	12.8	87	e.			0–1		2			0	0	sm'h		clear.
U. S. S. New Hampshire, Newport. R. I	30.42	772.7	18	— 7.8	84	nw.			3		10		nw.			sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.00	762.0	52	11.1	60	ene.			2		0					sm'h		clear.
U. S. S. Shenandoah, St. Vincent, Cape Verd Ids *	30.21	767.3	72	22.2	80	ne.			4		2		ne.			mod.	n.	fair.
U. S. S. Trenton, Marseille, France	30.11	764.8	48	8.9	78	n.			2		0							clear.
H. M. S. Alexandra, Malta, Mediterranean	30.11	764.8	58	14.4	76	sw.			1		4	sw.						d. clouds.
H. M. S. Alecto, N. 8° 29′, W. 13° 30′	29.91	759.7	80	26.7		ne.			1							2	wsw.	misty.
H. M. S. Comus, N. 28° 20′, W. 29° 30′	30.46	773.7	65	18.3	84	ne.			2		9					2	nne.	
H. M. Dockyard, Bermuda, Atlantic	30.37	771.4	65	18.3	84	s.			2		1	sse.						blue sky.
H. M. S. Minotaur, N. 39° 24′, E. 5° 40′	30.13	765.3	54	12.2	67	ne.			2		8	w.						d. clouds.
H. M. S. Woodlark, N. 33° 17′, E. 26° 20′	30.26	768.6	65	18.3	63	wsw.			2		6	wsw.				2	wsw.	d. clouds.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.93	760.3	86.0	30.0	82	sw.			2		0			0	0	2	sw.	
S. S. British Crown, N. 51° 32′, W. 19° 02′ †	28.75	730.2	40	4.4		wsw.			9		7		wsw.	8 h'r	8 h'r	h'vy	wsw.	hail squalls
S. S. Ohio, (Am.) Philadelphia, Pa			17	— 8.3	100	nw.			1		1			0	0			clear.
S. S. Pennsylvania, N. 43° 27′, W. 58° 42′ †	30.30	769.6	30	— 1.1	?	nne.			4		9		ne.			mod.	ne.	rain & fog.
S. S. Prussian, N. 50° 06′, W. 40° 26′	29.92	760.0	32	0.0		wnw.			5		6		wnw.	3 h'r	3 h'r	cross	wnw	hail shr's.
S. S. Scandinavian, Portland, Maine	30.52	775.2	12	—11.1		wnw.			3		0			0	0			blue sky.
S. S. Sardinian, N. 54° 58′, W. 17° 46′	28.76	730.5	36	2.2		wnw.			6		8		wnw.	0	0	h'vy	nw.	cloudy.
S. S. Ailsa, N. 29° 43′, W. 74° 10′			73	22.8	90	ene.			3		2		ssw.	0	0	mod.	s.	fine.
S. S. Devonia, N. 50° 13′, W. 37° 00′ †	29.67	753.6	34	1.1		wnw.			6		5		nnw.	7 h'r	7 h'r	h'vy	nw.	snow & hail
S. S. Wisconsin, N. 46° 33′, W. 48° 13′	30.14	765.5	24	— 4.4		n.			3		6		w.	7 h'r	7 h'r	sli't	n	fair.
S. S. Bohemia, Hamburg, Germany						sw.			7–9		10		sw.	8 h'r	8 h'r			raining.
S. S. Frisia, N. 50° 20′, W 12° 29′			44	6.7		wnw.			9–10		10		wnw.	6 h'r	6 h'r	h'vy	wnw	threatening.
S. S. Virginian, N. 50° 42′, W. 9° 40′			46	7.8		nw.			8				sw.	sh'rs	sh'rs	r'gh	sw.	showery.
S. S. Hevelius, Liverpool, Eng			40	4.4		se.			5		7		se.	0	0			cloudy.
S. S. Olbers, N. 46° 30′, W. 39° 57′	30.01	762.2	40	4.4	82	nw.			6		9							dull.
S. S. Texas, Havana, Cuba, W. I			81	27.2	78	s.			1		10			h'vy	h'vy			overcast.
S. S. City of Washington, N. 35° 35′, W. 75° 13′*†	30.50	774.7	43	6.1		n.			4		8		n.	0	0	mod.	n.	fine.
S. S. Erin, London, Eng			53	11.7		sw.			9		9		w.	4 h'r	4 h'r			heavy gale.
S. S. Salier, N. 43° 45′, W. 56° 31′*	30.31	769.9				n.			4		10		n.	2 h'r	2 h'r	light	nne.	covered
S. S. Rhynland, N. 49° 52′, W. 29° 51′			39	3.9	82	nw.			7		10		nnw.	snow	snow	r'gh	w.	h'vy squalls
S. S. Waesland, New York, N. Y	30.62	777.7	14	—10.0		nw.			3		0			0	0			clear.
S. S. P. Caland, N. 49° 46′, W. 10° 18′	28.56	725.4	51.1	10.6	97	sw.			8–10		10					6	w.	heavy gale.
S. S. State of Nevada, Glasgow, Scotland *†	28.40	721.3	31	— 0.6		wsw.			6		10		sw.	snow	snow			snowy.
S. S. Saxon, Philadelphia, Pa†	30.59	777.0	12	—11.1		wnw.			1		0							fine.
U. S. Celtic, Liverpool, Eng			46	7.8		wsw.			6		10		w.	4 h'r	4 h'r			heavy rain.
S. S. Rialto, N. 41° 45, W. 54° 38′ †	30.15	765.8	49	9.4		n.			2		2		n.	4 h'r	4 h'r	sm'h	n.	fair
Bg. Alcira N. 12° 18′, W. 69° 45′	30.00	762.0	79	26.1		ene.			3		2		ene.	0	0	mod.	ene.	hazy.
S. S. Antonio Lopez, Cadiz, Spain	30.35	770.9	57	13.9	69	sse.			1		2			0	0			clear.
Schr. Adda Doane, N. 30° 42′, W. 78° 30′ †	30.39	771.9				ne.			4		10		ne.	6 h'r	6 h'r	short	ne.	cloudy.
Bgt. Achsah, Clementsport, N. S†	30.34	770.6	12	—11.1		nw.			5		5?		nw.					clear?
Bk. Bayonnaise, N. 35° 42′ W. 37° 30′			63.5	17.5		wnw.			6		6		nw.	0	0	h'vy	nw.	squally.
Bk. Chas. Stewart, N. 32° 50′, W. 36° 50′*†	30.60	777.2				e.			1		0			0	0	mod.	se.	clear.
Schr. C. R. Flint, N. 32° 16′, W. 59° 58′			71	21.7		s.			1		3		se.	0	0	mod.	se.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Celestina, N. 16° 07′, W. 26° 00′*†	30.16	766.1				e.			5		2		ene.	0	0	h'vy	ne;e.	hazy.
Bkt C. S. Bushnell, N. 38° 23′, E. 10° 38′	30.08	764.0				nnw.			2		5		n.	0	0			
S. Dora, N. 62° 27′, W. 10° 21′ *†	28.55	725.2	32.9	0.5		nne.			6		9		ne	6 h'r	6 h'r	long	ne.	cloudy.
S. E. J. Spicer, N. 46° 20′, W. 10° 30	29.26	743 2	52	11.1	100	sw.			9		10		wsw.	rain	rain	cross	var.	raining.
S. E. B. Sutton, N. 52° 40′, W. 5° 56′						ssw.			9		10		sw	rain	rain	h'vy	ssw.	stormy.
Bk. Fred W. Carlon, N. 29° 37′, W. 75° 42′ †	30.26	768.6				calm			0		5?		nw.	0	0	r'gh	une.	cloudy.?
S. Hedwig, N. 37° 26′, E. 3° 33′	30.17	766.4	53.6	12.0	83	w.			2		5		var.	2 h'r	2 h'r	2	ne.	clearing.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.56	776.2				nne.			5					0	0			fair
S. Henry, N. 37° 34′, W. 11° 25			58.1	14.5		w.			3	5 cs						4	var.	fair.
Bk. Idaho, N. 20° 08′, W. 78° 30′ *†.	30.25	768.3				ne.			3		1		ne.	0	0	long	se.	clear.
Bg. John Wesley, Havana, Cuba, W.I.						e.			1		5		sw.	0	0			fair.
Schr. John L. Thomas, Hobbles Cays, C. A †	30.04	763.0	75	23.9	90	e.			3		2		e.	¼ h'r	¼ h'r	mod.	ene.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe						ene.			1		2		ene.	2 h'r	2 h'r			
S. S. Laurel, Key West, Fla †	30.25	768.3	66	18.9		nne.			2-3		fg.			0	0			d. fog.
S. S. Madrid, London, Eng			47	8.3	92	sw.			9-10		10		sw.	4 h'r	4 h'r			raining.
Schr. Maria Matilda, N. 34° 43′, W. 74° 11′			44	6.7	66	n.			6		7		n	0	0			fine.
Schr. Norena, N. 39° 00′, W. 62° 00′						nne.			3		10		ne.	18 h'r	18 h'r	mod.	sw.	light rain.
S. Parker M. Whitmore, N. 10° 22′, W. 34° 40′ *†	30.00	762.0	78	25.6		ene.			6		5		ene.	0	0	high	ne.	cloudy
S. S. P. de Satrastegui, N. 42° 28′ W. 36° 00′	30.02	762.5				wnw.			6		10		sw.	3 h'r	3 h'r	cross	var.	hazy.
Bg. Rising Sun, N. 15° 58′, W. 58° 00′†.	30.01	762.2	76	24 4		ese.			3		1		ese.	0	0	long	e.	clear.
S. Salisbury, N. 18° 07′, W. 49° 06′	30.16	766.1	75.2	24.0	82	sse.			3		2 k		sse.	0	0	r'gh	ene.	fair.
S. S. City of Alexandria, Progreso Roads, Yucatan*†.	30.22	767.6	71	21.7		n.			6							h'vy	n.	squally.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.92	760.0	77	25.0	82	ssw.			1		2					sm'h		fair.
U. S. S. Pinta, Rio de Janiero, Brazil	30.04	763.0	80	26.7	82	n.			2		0							clear.
H. M. S. Amethyst, S. 38° 51′, W. 58° 38′	29.90	759.4	66.5	19.2	92	calm			0		1	nw.				2	s.	blue sky.
H. M. S. Boadicea, S. 10° 00′, W. 12° 14′	30.01	762.2	77	25.0		ese.			2		2	ese.				2	ese.	blue sky.
H. M. S. Opal, Simons Bay, Cape Colony	30.03	762.7	72	22.2	71	ssw.			2		5	ese.						d. clouds.
S. S. Sirius, Santos, Brazil	29.95	760.7				calm			0		0			0	0			clear.
S. S. Peniers, S. 0° 30′, W. 32° 00′	29.96	761.0	80.7	27.1	96	ese.			4	0	7 k			0.10	2.5	con.	var.	foggy.
Bg. Daphne, S. 3° 23′, W. 33° 34′ *†	29.90	759.4	82	27.8	70	se.			3		3		var.	14 h'r	14 h'r	chop	var.	hazy.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†.	30.10	764.5	77	25.0		wsw.			4		2		wsw.	0	0			clear.
Bkt. Levanter, S. 28° 20′. W. 43° 46′*	30.02	762.5	86	30.0		n.			4		4		n.	0	0	light	n.	clear.
S. St. David, S. 29° 24′, W. 25° 48′*†	30.30	769.6	75	23.9	81	nnw.			3		8		nnw.	1 h'r	1 h'r	light	var.	fine.
S. David Stewart, Pernambuco, Brazil †	29.84	757.9	85	29.4		ese.			4		4		se.	light	light			
Bk Godeffroy, S. 32° 54′, W. 26° 49′	30.02	762.5				nw.			5		7		var.	8 h'r	8 h'r	mod.	n.	hazy.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.19	766.8	43.5	6.4	67	calm			0		10		w.	0	0			gloomy.
U. S. S. Adams, Sitka, Alaska †	29.66	753.4	30	— 1.1	91	ne.			1		0							clear.
U. S. S. Alert, N. 15° 54′, E. 164° 42′	29.91	759.7	77	25.0	95	n.			4		5		n.			sm'h		fair
U. S. S. Essex, Canton, China	30.10	764.5	72	22.2	85	nw.			1		2							clear.
U. S. S. Juniata, Shanghai, China	30.30	769.6	45	7.2	92	nne.			1		10			light	light			cloudy.
U. S. S. Monocacy, Shanghai, China	30.29	769.4	46	7.8	84	nnw.			2		10		calm					cloudy
U. S. S. Richmond, Shanghai, China	30.31	769.9	47	8.3	92	nnw.			2		10		nnw.	1.30	33.0			cloudy.
H. M. S. Audacious, Hong Kong, China	30.08	764 0	71	21.7	85	calm			0		1	e.						blue sky
H. M. S. Cleopatra, off Amoy, China	30.08	764.0	61	16.1	91	calm			0		4					sm'h		d. clouds.
H. M. S. Champion, Shanghai, China	30.33	770.4	47	8.3	85	n.			1		10							overcast.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.91	759.7	80.5	26.9	80	nne.			1		9							misty.
H. P. M. S. Tamega, Macao, China	30.15	765.8	69.8	21.0	82	calm			0		0			2 h'r	2 h'r			blue sky.
S. S. Newbern, N. 24° 30′, W. 112° 10′ *†	30.12	765.0	60	15.6	55	nw.			3		0			0	0	light	wnw.	clear.
S. S. Columbia, N. 40° 38′, W. 124° 32′			48	8.9	85	se.			4		10		se.			mod.	w.	cloudy.
S. S. Oregon, San Francisco, Cal.			51	10.6	79	calm			0									gloomy.
S. S. Alameda, Honolulu, Sandwich Islands †	29.94	760.5	69	20.6	75	calm			0		0			0	0			clear.
S. S. Ancon, Point Buchon, Cal. †	29.88	758.9	52	11.1	66	ene.			2		0			0	0	mod.	nw.	clear.
S. S. City of Chester, Eureka, Cal. †	29.81	757.2	46	7.8	84	calm			0		10							
S. S. Orizaba, N. 37° 12′, W. (119?)° 40′ †	29.93	760.2	50	10.0	79	nw.			8				nw.	sh'rs	sh'rs	long	nw.	squally.
S. S. Queen of the Pacific, San Francisco, Cal. †	29.89	759 2	46	7.8	92	calm			0		10		s.	2 h'r	2 h'r			overcast.
S. S. State of California, Portland, Oregon			34	1.1	79	calm			0		10							raining.
S. S. City of Pekin, N. 37° 47′, W. 123° 34′			50	10.0	93	s.			4		10		se.			long	sw.	overcast.
S. S. City of Rio de Janeiro, N 21° 13′, W. 166° 57′†	29.90	759.4	74	23.3		e.			2		2?		ene			small	e.	cloudy.?
S. S City of Sydney, N. 30° 49′, W. 140° 34′ *†	30.25	768.3	63	17.2	78	n.			1	1 cs		ne.				mod.	ne.	clear.
S. S. Granada, Panama, Panama †	29.94	760.5	74	23.3	90	nnw.			1		0			0	0	light	nw.	clear.
S. S. San Blas, N. 16° 13′, W. 98° 38′ †	30.05	763.3	76	24.4	82	e.			2		3		se.	0	0	h'vy	se.	clear.
S. S. Zealandia, N. 27° 31′, W 144° 33′	30.31	769.9	68	20.0	79	ene.			5				ene.	8 h'r	8 h'r	long	e.	squally.
Bk. Alpheus Marshall, N. 23° 48′, E. 142° 03′*†	30.10	764.5	70	21.1	80	e.			4		0			0	0	sm'h		clear.
S. S. Benalder, N. 27° 30′, E 124° —′*	30.20	767.1	63	17.2	83	nnw.			3-4		8		var.	0	0	high	n.	cloudy.
S. Carondelet, S. 0° 20′, E. 131° 39′*†	29.91	759.7				nw.			1		2			¼ h'r	¼ h'r	long	nne.	clear.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 11° 07′, W. 97° 44′	30.00	762.0	73	22.8	90	ene.			1		2			0	0	sm'h	se.	clear
U. S. S. Lackawanna, S. 10° 35′, W. 80° 30′	29.97	761.2	75	23.9	86	ese.			4		8		se.			sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.06	763.5	71	21.7	95	sse.			2		8		sse.			h'vy	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru.*	30.00	762.0	69	20.6	95	sse.			1		5		s.			sm'h		fair.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.87	758.7	65	18.3	94	ne.			2		5					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.94	760.5	67	19.4		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.80	756.9	52	11.1	93	ssw.			1		0							d clouds
H. M. S. Sylvia, off Sandy Point, Patagonia	28.49	723.6	50.5	10.3	93	calm			0		10							showery.
S. S. Australia, Sydney, N. S. W	29.98	761.5	70	21.1		ne.			4		8		e.	4 h'r	4 h'r			clearing.
S. S. George S. Homer, S. 50° 01′, W. 115° 12′*†	29.50	749.3				wnw.			6		9		wnw.			r'gh	wnw.	rain & fog.
S. Ismir, S. 20° 49′, W. 79° 16′*	30.31	769.9				ese.			2		4		sse.	0	0	long	ssw.	fine.
S. St. Francis, S. 18° 30′, W. 96° 00′ *†	30.10	764.5	74	23.3	72	se			2		1		se.	0	0	long	s.	clear.
S. Grecian, S. 47° 06′, W. 119° 53′ †	29.48	748.8	58	14.4	88	wnw.			6		10		nw.			long	w.	misty.
S. Henry Failing, S. 50° 43′, W. 119° 50′* †.	29.29	744.0	52	11.1	73	sw.			6		5		sw.	4 h'r	4 h'r	mod	w.	fair.
H. M. S. Espeigle, S. 43° 37′, E. 172° 44′	29.71	754.6	64	17.8	78	ne.			2		7							showery.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, S. 15° 05′, E. 44° 34′	29.81	757.2	77	25.0	100	nw.	20	8.9			10		nw.	1.23	31.2	mod.	nw.	raining.
U. S. S. Pensacola, Fenerife, Madagascar *	29.69	751.1	84	28.9	71	se.			1		10		calm	0	0		ene.	cloudy
H. M. S. Coquette, N. 15° 30′, E. 39° 24′	30.01	762.2	80	26.7	78	calm			0		4					sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	30.07	763.8	75	23.9	86	ne.			2		0							blue sky.
H. M. S. Orontes, N. 80° 52′, E. 51° 55′	30.07	763.8	75	23.9	7	ne.			6		9	ne.				4	ne.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.71	754.6	83	28.3	83	calm			0									d. clouds.
S. S. Galatia, Calcutta, India†	30.00	762.0	78	25.6	86	nnw.			1		0			0	0			clear.
S. S. Port Phillip, S. 20° 23′, E. 95° 43′*	29.94	760.5	81	27.2		se.			4-5							sm'h	e.	cloudy.
S. S. Radnorshire, N 12° 53′, E. 49° 52′*†	30.17	766.3				s.			2		0			0	0	mod	ne.	clear.
S. S. Lepanto, N. 13° 36′, E. 43° 03′	30.02	762.5	80	26.7		s.			4		5		s.	0	0	mod.	s.	fair.

International Chart I. January 26, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 27, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.24	768.1	62.2	16.8	88	se			3		0			0	0	clear	Roziere.
Algiers			30.13	765.3	53.6	12.0	76	n.			1		9			0	0	covered	Aubert.
La Galle			30.11	764.7	61.5	16.4	54	nw.			3		1			0	0	very fair	Fonfrède.
Tunis			30.17	766.3	57.6	14.2	74	w.			4		1			0	0	very fair	Delord.
Tebessa					50.4	10.2	96	s.			5		2			0	0	fair	Hans.
Geriville					57.2	14.0	28	nw.			3		1			0	0	very fair	Forfert.
Laghouat			30.24	768.2	55.8	13.2	80	calm			0		0			0	0	clear	Abraham.
Biskra			30.17	766.4	50.7	10.4	74	nw.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.19	766.8	57.1	13.9	78	s.	3	1.3			1 ks			0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.67	753.6	29.86	758.4	53.2	11.8	80	wsw.			1		3		wsw.	0.10	2.5	clear	Com. I. Short, R.N.
Melbourne, Victoria	29.95	760.7	30.04	763.0	59.1	15.1	78	s.	14	6.3			9			0.45	11.4	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.21	742.0	29.77	756.2	43.7	6.5	45	sw.			6		7			0.217	5.5		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.69	728.8	29.47	748.5	40.1	4.5	48	ssw.	16.8	7.5			10			0	0		Dr. Wierzbiski
Eperies	28.82	731 9	29.73	755.1	30.9	— 0.6	92	s.			3		10			0	0		Julius Mikolik.
Gratz	28.38	720.9	29.66	753.3	37.4	3.0	70	s.			4		10			0	0		Andreas Rospini.
Hermannstadt	28.40	721.4	29.87	758.6	39.9	4.4	77	sse.			2		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.06	712.8	29.43	747.6	32.7	0.4	75	ne			1		10			0.024	0.6		The Staff.
Lemberg	28.64	727.4	29.64	752.9	39.9	4.4	59	sw.			4		3			inap.	inap.		Dr. T. Stanecki.
Pola	29.64	752.9	29.75	755.7	49.5	9.7	74	sse.			5		10			0	0		I. R. Hydrographic Office.
Szathmar	29 31	744.5	29.79	756.7	37.4	3.0	79	e.			2		2			0.031	0.8		Joseph Midlinszky, S. J
Szegedin	29.51	749 5	29.80	757.0	32.0	0.0		se.			2		10			0.047	1.2		Karl Stancel.
Trieste	29.70	754.4	29.80	756 9	46.8	8.2	75	sw.			2		10			0.685	17.4		Royal Academy.
Vienna	28.75	730.2	29.48	748.8	35.8	2.1	66	calm			0		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	27.69	703.3	29.08	738.6	33.6	0.9	98	sw.			4		3			1.220	31.0		
Brussels	29.04	737.6	29.24	742.7	38.5	3.6	82	wsw.			4		9		wsw.	0.831	21.1		
Furnes	29.15	740.5	29.17	741.0	42.8	6.0	78	w.			2		6			0.539	13.7		
Maeseyck	29.10	739.0	29.22	742.2	39.9	4.4	76	w.			4		10			0	0		
British.																			
Aberdeen			28 86	733.0	37.0	2.8	69	wsw.	56	25.0			7						W. Boswell.
Bidston, Liverpool Obs'y			28.85	732.8	35.5	1.9	66	sw.	27	12.1			7					d. clouds	John Harnup.
Bolton, Sharples	28.33	719.6														0.23	5.8	d. clouds	Thomas Mackereth.
Bradford, Yorkshire																			McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.03	762.7	30.06	763.5	81	27.2	66	ne.			1		2					blue sky	Corp'l W. I. Cull, A.H.C.
Cardington	28.95	735.3	29.07	738.4	36.0	2.2	95	w.			6.0		3					blue sky	John McLaren.
Chatham, School M. E.	28.98	736.1	29.16	740.7	39.1	3.9	77	w.			3		6					d. clouds	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.10	739.1	29.33	745.0	41.0	5.0	74	w.			5		9					d. clouds	The Staff.
Fort Napier, Natal	27.67	702.8	29.99	761.7	74.0	23.3	61	ne.			1		5					d. clouds	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.58	751.3	29.81	757.2	85	29.4	68	n.			3		1					d. clouds	J. W. Smith.
Galway, Queen's College	28.91	734.3	28.95	735.3	34	1.1	79	w.			2		10			0.25	6.3	snowing	Wm. Ryan.
Gibraltar, Mediterranean	30.34	770.6	30.40	772.1	59.6	15.3	91	nw.			5		8					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	28.99	736.3	29.16	740.7	35.9	2.2	90	wsw.					2					blue sky	The Staff.
Guernsey	29.11	739.4	29.41	747.0	43.0	6.1	83	w.			4		5					d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	29.16	740.7	29.20	741.7	36.4	2.4	85	wsw.	24	10.7			2					blue sky	The Staff.
Leicester, Museum	28.74	730.0	28.99	736 3	37.5	3.1	63	sw.			2		4					d. clouds	J. C. Smith.
Malta, Mediterranean	30.05	763.3	30.13	765.3	59.6	15.3	60	nw.			3		9			0	0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.29	769.4	30.34	770.6	71.0	21.7	87	n.			3		8					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	28.91	734.3	29.14	740.1	38.1	3.4	72	sw.			6		0					blue sky	The Staff.
Plymouth	29.22	742.2	29.29	744.0	44.1	6.7	84	w.			6		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	27.76	705 1	27.86	707.6	37.2	2.9	100						10					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.98	761.5	30.04	763.0	50.6	10.3	76	ssw.			1		10					showery	W. H. Lyne.
Sheffield	28.63	727.2	28.91	734.3	39.9	4.4	86	sw.			3		4			0.02	0.5	d. clouds	W. F. Cooper.
Silloth Rectory	28.66	728.0	28.69	728.7	36 0	2.2	84	wnw.			7		6			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			28.84	732.5	32.4	0.2	95	w.	39	17.4			10					snowing	Rev. S. J. Perry.
Strathfield Turgiss					36.4	2.4	85	nw.			1.5		0					blue sky	Rev. O. H. Griffiths, F.M.S
Valencia, Observatory	29.12	739.6	29.15	740.4	36.8	2.7	86	w.	32	14.3			10					gloomy	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.78	756 4	30.18	766.6	56.5	13.6	62	w.	6.2	2.8		0	4 k		w.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B					0	—17.8		calm	0	0		0	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.42	772.7	30.47	773.9	— 1	—18.3	90	nw.	8	3.6		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.50	774 7	30.58	776.7	— 6	—21.1	100	w.	6	2.7		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.64	778.2	30.87	784.1	—20.0	—28.9	100	w.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	30.60	777.2	30.65	778.5	—10.0	—23.3						0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.72	780.3	30.73	780.5	— 9	—22.8	74	se.	8	3.6		2 cs	5 s	calm	calm	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.24	742.7	30.15	765.8	10	—12.2	87	se	19	8.5			10 n			0	0	hazy	James Stewart.
Fredericton, N. B	30.60	777.2	30.68	779.3	—13.9	—25.5	100	nw.	6.0	2.7		0	0			0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B	30.61	777.5	30.67	779.0	7	—13.9	80	nw.	14	6.3		0	8 ks		nw.	0	0	fair	J. Chipman Seeley
Granton, Ontario	29.62	752.3	30.87	784.1	5.7	—14.6	95	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.37	771.4	30.53	775.4	8	—13.3	91	nw.	12	5.4		8 k	0	w				light snow	A. Allison.
Hamilton, Ontario	30.34	770.6	30.79	782.1	15.7	— 9.1	90	sw.			1	10 cs	0			0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.50	771.7	30.89	784.6	2	—16.7	63	w.	3	1.3		c	0			inap.	inap.	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	30.30	769.6	30.34	770.6	2.5	—16.4	81	nw.	4	1.8		3 k	0	nw.		0	0	fair	C. H. Rigby.
London, Ontario	29.81	757 2	30.85	783.6	— 1.2	—18.4	91	calm			0	0	5			0	0	hazy	E. B. Reed.
Medicine Hat, N. W. T	27 59	700.8	29.98	761.5	5	—15.0	96	sw.	8	3.6		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	27.96	710 2	30.04	763.0	10	—12.2	100	e.	6	2.7			10 s		e.	0.050	1.3	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	30.66	778.7	30.90	784.8	— 4	—20.0	79	n.	8	3.6		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.65	778.5	30.92	785 4	—28.3	—33.5	100	w.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	30.04	763.0	30.80	783.8	—11	—23.9	76	n.	6	2.7		0	0			0.02	0.5	clear	Rev. R. Mosley.
Peterboro, Ontario	30.06	763.5	30.91	785.1	0.9	—17.3	66	ne.			1		10 k			0	0	misty	Wm. O'Connor, M.A.
Port Arthur	29.75	755.6	30.51	774.9	19	— 7.2	100	ne.	12	5.4						0	0		W. P. Cooke.
Port Dover, Ontario	30.05	763.3	30.85	783.0	— 2	—18.9	100	calm	0	0		10 c	0	nw.		0	0	cloudy	H. Morgan.
Port Stanley, Ontario	30.10	764.5	30.84	783.3	2	—16.7	100	e.	2	0.9			fg.			inap.	inap.	dense fog	M. Payne.
Qu Appelle, N. W. T	27.52	699.0	29.99	761 7	4	—15.6		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	30.41	772.4	30.83	783.1	—10	—23.3	78	w.	3	1.3		2 cs	0	w.		0	0	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	30.38	771.6	30.93	785.6	—24	—31.1	90	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B	30.61	777.5	30.67	779.0	3	—16.1	100	nw; w	4	1.8		0	0			0	0	clear	
St. John, N. B	30.48	774.2	30.64	778.2	1.3	—17.1	72	nw.	28	12.5		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			30.00	762.0	10.4	—12.0		nw.			4								The Commandant.
Saugeen, Ontario*	30.01	762.2	30.80	782.3	15	— 9.4	96	se.	4	1.8			10 s			0.27	6.9	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
CANADIAN.—Continued.																			
Stratford, Ontario	29.39	746.5	30.83	783.1	7.2	—13.8	69	e.	4	1.8			10			0	0	overcast	W. Mc Bride, M. A.
Sydney, C. B*	30.27	768.8	30.34	770.6	3	—16.1	100	w.	10	4.5		0	2 ks		w.	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	30.42	772.7	30.84	783.3	15	— 9.4	87	ne.	5	2.2			10 s			inap.	inap.	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.67	753.6	30.90	784.8	— 1.3	—18.5	63	ne.	1	0.4		9 cs	0	sw.		0	0	d. clouds	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.52	775.2	30.60	777.2	15	— 9.4	67	n.	20	8.9			10 k		n.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	30.14	765.5	30.17	766.3	73.5	23.1	83	sw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.98	761.5			78.8	26.0	56	ssw.				0	1 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.84	707.1			85	29.4	40									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.88	758 9	29.96	760.9	66.2	19.0	87	w.			2	0	0					clear	Samuel Redolez.
Iquique	29.89	759.1	29.91	759.8	71.6	22.0	86	sw.			2							cloudy	Rafael Moreno.
Niebla	29.58	751 2	29.68	753.9	65.5	18.6	67	e.			3	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.87	758.6	29.95	760.8	68.9	20.5	79	sw.			2	4 c	0	sw.				fair	Manuel Tobar.
Punta Corona	29.95	760.6	30.13	765.3				calm			0		10			0	0	hazy	Francisco Alvarado.
Valparaiso	29.82	757.3	29.95	760.8	63.7	17.6	86	n.				10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.14	765.6	30.17	766.2	39.4	4.1	89	se.	8.3	3.7			0			0	0		M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	28.78	731.0	28.83	732.2	40.8	4.9	70	sw.	25	11			3						Oversergent Fischer.
Fanöe	28.69	728.6	28.71	729.1	38.3	3.5	73	wsw.			8		10						Overloerer Lauridsen.
Godthaab, Greenland	29.45	747.9	29.49	749.0	— 0.6	—18.1	100	nne.			2–4		10						S. Kleinschmidt.
Stykkisholm, Iceland	28.96	735.5	29.00	736.6	25.5	— 3.6	89	ne.			6		0						A. O. Thorlacius.
Thorshavn	28.34	719 9	28 37	720 5	35.8	2.1	64	ne.	34	15.			10						Overloerer Bergh.
Vestervig	28.30	718.9	28.40	721.3	36.9	2.7	94	sw.			8		10						Loerer Oestergbol.
EGYPTIAN.																			
Cairo	30.10	764.4			63.0	17.2		e.	4.0	1.8		0	6 k			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.28	743.6	29.95	760 6	51.1	10.6	82	wnw.			1		n	nw.	w.	0.091	2.3	den e mist	M. Labroue, Director.
Alençon, Normal School	29.00	736.6	29.55	750 6	42.1	5.6	78	s.			8		10 n			0.087	2.2		M. Nicot, Director.
Arras, Normal School			29.25	743 0	36.9	2.7	89	ssw.			6		2	sw.	sw.	0.063	1.6	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	29.72	755.0	29.80	757 0	55.4	13	53	nnw.			1		8		nw.	inap.	inap.	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.01	736.8	29.57	751.1	43.9	6 6	53	sw.			8		8		w	0	0	very cloudy	M. Saillard, Director
Beauvais, Normal School	29.13	739.9	29.40	746.8	41.4	5.2	69	wsw.			3		8		wsw.	0.386	9.8	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.76	730.5	29.65	753.2	43.9	6.6	79	sw.			4		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.57	751.0	29.83	757.7	48.4	9.1	84	w.			2		8			0.244	6.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.12	739.6	29.67	753 6	49.3	9.6	79	wnw.			8		kn		wnw.	0.472	12.0		M. Sauvageot, Director.
Brest, Naval Observatory	29.34	745.3	29.63	752.5	49.6	9.8	73	w.			6		3		w.	0.354	9.0		M. de Kermarée, Dir.
Caen, Normal School	29.36	745.7	29.44	747.7	39.2	4	100	w.			1		5		nnw.	0.106	2.7	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.13	739.8	29.45	748.0	45.0	7.2	66	ssw.			8		8		nw.	0.413	10.5	very cloudy	M. Jadot, Director.
Charleville, Normal School	28.83	732.2	29.35	745.4	40.3	4.6	62	w.			4					0.71	18.		M. Noël, Director.
Clermont-Ferrand Obs'y	28.39	721.0	29.76	755.8	45.7	7.6	51	w.			6		5		w.	0.346	8.8		M. Allnard, Director.
Cluny, Normal School	28.71	729.3	29.58	751 3	48.5	7.5	57	w.			2		3	sw.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.61	726.7	29.48	748.8	38.3	3.5	85	w.			10		10	w.	w.	0.087	2.2	covered	Dr. Coulet, Director.
Gap, Normal School	27.17	690.2	29.74	755.4	41.0	5	52	calm			0		6			0.532	13.5		M. Jarach, Director.
Grésasque, du Rhone	28.66	728.0	29.78	756.5	53.1	11.7	54	nw.			4		5		nw.	0.08	2.		M. Kina, Director.
Grenoble, Normal School	28.93	734.7	29.73	755 1	51.4	10.8	56	nw.			1		n			0	0		M. Ablard, Director.
Guéret, Normal School	27.98	710.6	29.60	751.9	32.9	0.5	86	sw.			6		n		n.	0	0		M. Delorme, Dir.
Lamballe, Normal School.																			M. Pollpre, Director
Lescar, Normal School	29.37	746.1	30.00	762 0	50.0	10.0	65	sw.			1		5 kn		e.	0.08	2.	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.52	749.7	29.62	752.3	48.2	9.0	52	w.			10		8		w.	0.220	5.6	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.72	729.6	29.80	756 8	45.1	7.3	67	w.			2		n			0	0	clear	M. André, Director.
Mans, Normal School	29.25	743.0	29.56	750.9	41.5	5.3		w.			6		5 k		nw.	0.579	14.7	cloudy	M. Richard, Director.
Marseille, Observatory	29.54	750.2	29.80	757.0	55.8	13 2	62	w.			4		5		w.	0.016	0.4		M. Stephan, Director.
Montlouis	24.62	625.4	29.47	748 4	40.1	4.5	72	sw.	11.2	5.0			5	sw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.65	753 0	29.76	755 8	56.1	13.4	63	wnw.			6		0			0	0	clear	M. Gelzin, Director.
Nancy, Normal School	28.64	727.4	29.43	747.4	38.8	3.8	80	ssw.			3		kn		sw.	0.315	8.0		M. Hasse, Director.
Nantes, Observatory	29.50	749.2	29.66	753.4	45.5	7.5	75	w.			1–4	c	3 n; kn		wnw.	0.567	14.4		M. Larocque, Director.
Perpignan, Observatory	29.75	755 6	29.86	758.4	57.4	14.1	45	nw.	33.5	15.0			3		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.97	532.7			17.4	— 8.1		w.			6		10		w.	0.236	6.0	covered	M. Vaussenat, Director.
Privas, Normal School	28.72	729.6	29.79	756.7	52.5	11.4	65	s.			1		n		s.	0.138	3.5		M. Tallieu.
Puy de Dôme Obs'y, Summit	24 71	627.7			25.3	— 3.7	100	w.			6		10			0.354	9.0		M. Allnard.
Rochefort, Naval Obs'y	29.71	751.6	29.74	755 4	46.0	7.8	83	wsw.			2		10		w.	1.65	42.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.41	747.0	29.63	752.5	47.5	8.6	53	sw.			2		5	e.	e.	0.926	23.6	cloudy	M. Brotier, Director.
Rodez, Normal School	27.71	703.8	29.89	759.3	42.3	5.7		nw.			1		10			0.134	3.4	raining	M. Seger, Director.
Rouen, Normal School	29.36	745 7	29 41	746.9	43.5	6.4	77	sw.			1		5	sw.		0.55	14.	cloudy	M. Mouillot, Dir.
St. Lô, Normal School			29.31	744.4	42.6	5.9	80	wsw.			6		10	w.	w.	0.429	10.9	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.32	744.8	29.49	749.0	43.9	6.6	89	w.			4		8		w.	0.319	8.1	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.19	741.4	29.91	759.7	53.6	12.0	56	w.			6		5	w.		0.020	0.5	cloudy	M. Baillaud, Director.
Tours	29.44	747.8	29.62	752.3	46.4	8.0	66	w.			4		2		sw.	0.650	15.4	slightly cl'dy	M. de Tastes.
Versailles, Observatory	28.99	736.3	29.48	748.8	42.4	5.8	63	w.			6					0.205	5.2		Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.80	756.8	29.95	760.0	53.8	12.1	65	w.	27.5	12.3			9 k		w.	0.256	6.5		M. Cartier, Director.
GERMAN.																			
Ansbach	27.94	709.6	29.40	746.8	38.7	3.7	83	sw.			6		10	sw.		0.008	0.2		Prof. Jnedt.
Bamberg	28.49	723.7	29.32	744.6	41.9	5.5	70	w.			3		7 n		w.	0.157	4.0		Prof. Dr. Hoh.
Berlin	28.99	736.3	29.13	739.9	40.6	4.8	74	w.			3		10			0.075	1.9		Meteorological Institute
Breslau	28 83	732.2	29.35	745.4	37.9	3.3	53	s.			4		10			0.004	0.1		Royal University Obs'y
Carlsruhe	28.96	735.6	29.42	747.2	41.2	5.1	85	sw.			10		10	sw.		0.583	14.8		Albert Senz.
Cassel	28 52	724.4	29.23	742.5	43.2	6.2	52	s.			5		6	sw.		0.268	6.8		Dr. H. Möhl.
Frankfort-on-the-Main	28.95	735.4	29.32	744.8	43.0	6.1	76	sw.			3		10			0.067	1.7		Physical Society.
Friedrichshafen	28.17	715.6	29.62	752 3	37.0	2.8	89	wsw.			8		10	w.		0.193	4.9	snowing	Wilhelm, Chief Tel.
Hamburg	28 91	734.3	29.00	736.6	41.5	5.3	63	sw.			8		7			0.204	6.7		E. Preller.
Kiel	28.87	733.2	28.88	733.6	39.9	4.4	67	wsw.			4		9			0.236	6.0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	28.80	731 4	29.21	741.8	45.0	7.2	69	sw.			5		8	wsw.		0	0		H. Leppig, Asst.
Magdeburg	28.95	735.4	29.14	740.2	43.2	6.2	60	wsw.			5		6			0	0		Weather Observatory.
Memel	29.16	740.7	29.21	741.8	36.1	2.3	75	s.			5		10 s						Issermann.
Munich	27.67	702 7	29.50	749.2	38.7	3.7	78	nw.			8		10	w.		0.004	0.1	rain & snow	Central Station.
Neufahrwasser	29.13	739.8	29.14	740.2	36.5	3.6	75	s.			3		10			0.004	0.1		A. Lothes.
Neustadt, Palatinate	28.82	732.1	29.34	745.2	39.2	4.0	85	w.			2		10			0.720	18.3		Dicknether.
Stuttgart	28.48	723.5	29.38	746.3	43.2	6.2	56	sw.			5		6	w.		0.118	3.0		Prof. Dr. Schoder.
Wustrow	28.89	733.7	28.91	734 3	41.5	5.3	74	ssw.			5		3 s			0.177	4.5	raining	Profs. Brandes & Reimer
GREEK.																			
Athens	29.73	755.1	30.12	765.0	54.0	12.2		s.			1.0	9	0			0.047	1.2	hazy	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.97	761.1	30.02	762.4	68.3	20.2	28	nw.	21.0	9.4			8					drizzling	
Deesa	29.50	749.3	29.99	761.7	71.2	21.8	10	w.	10.0	4.5			0			0	0	blue sky	
Bombay	29.97	761.2	30.01	762.2	73.1	22.8	59	nnw.	24.0	10.7			0			0	0	blue sky	
Poona, Yarrowda	28.09	713.4	29.95	760.7	79.3	26.3	44	wnw.	22.0	9.8			0			0	0	blue sky	
Belgaum	27.42	696.4	29.96	760.9	76.6	24.8	38	ssw.	4.0	1.8			0			0	0	blue sky	
Lahore	29.28	743.7	30.06	763.6	57.6	14.2	72	ne.	4.0	1.8			3			0.21	5.3	d. clouds	
Roorkee	29.05	737.8	29.97	761.1	71.7	22.1	46	calm	4.0	1.8			5	w.		0	0	d. clouds	
Agra	29.39	746.5	29.96	761.1	74.7	23.7	44	se.	2.0	0.9			3		e.	0	0	d. clouds	
Nagpur	28.93	734.8	29.98	761.5	78.7	25.9	38	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Amount and kind. Lower. 0–10	Direction. Upper. From	Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.63	727.2	30.01	762.2	73.8	23.2	48	calm	1.4	0.6	.....	.....	1	.....	.....	0	0	blue sky	
Lucknow	29.67	753.6	30.06	763.4	72.2	22.3	44	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.67	753.5	29.99	761.7	71.8	22.1	54	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.82	757.5	30.02	762.4	69.5	20.8	58	calm	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.95	710.0	30.01	762.3	68.1	20.1	37	nnw.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.93	760.2	30.01	762.3	75.8	24.3	56	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	30.00	761.9	30.02	762.4	70.1	21.2	64	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.86	758.5	29.99	761.6	69.4	20.8	56	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.92	759.9	30.01	762.3	67.6	19.8	98	w.	2.6	1.1	.....	.....	0	.....	.....	0	0	.....	
Sibsagar	29.68	753.8	30.03	762.8	60.1	15.6	81	ne.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.51	724.2	29.99	761.8	68.9	20.5	30	wnw.	10.0	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	29.84	758.0	29.87	758.6	84.7	29.3	58	ene.	16.8	7.5	.....	.....	1	.....	.....	0	0	d. clouds	
Bellary	28.48	723.4	.....	.....	80.0	26.7	25	e.	2	0.9	.....	0	0	.....	.....	0	0	blue sky	
Trichinopoly	29.72	754.9	.....	.....	83.8	28.8	44	e.	0.2	0.1	.....	3	3	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.36	745.7	29.78	756.5	37.6	3.1	85	n.	1.3	0.6	.....	.....	10	.....	.....	0.024	0.6	.....	Prof. Giovanni Clodig.
Milan	29.22	742.2	29.76	755.9	33.4	0.8	88	nnw.	9.4	4.2	.....	.....	10	e.	.....	0.010	0.4	.....	Prof. G. V. Schiapparelli
Padua	29.63	752.5	29.74	755.4	33.8	1.0	90	nne.	8.7	3.9	.....	.....	10	sw.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.81	731.8	29.75	755.7	37.9	3.3	74	nw.	3.8	1.7	.....	.....	7	n.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.43	747.5	29.63	752.5	48.6	9.2	91	se.	5.6	2.5	.....	.....	10	s.	.....	0.516	13.1	.....	Prof. G. M. Garibaldi.
Pesaro	29.72	754.8	29.77	756.1	47.3	8.5	69	sw.	11.2	5.0	.....	.....	10	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.52	749.9	29.79	756.6	48.7	9.3	86	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittel.
Leghorn	29.64	752.9	29.73	755.1	51.4	10.8	66	s.	6.3	2.8	.....	.....	10	sw.	.....	0.193	4.9	.....	Prof. P. Monte.
Rome	29.76	756.0	29.94	760.5	50.9	10.5	72	sse.	8.7	3.9	.....	.....	10	sw.	.....	0.319	8.1	.....	Prof. P. Tacchini.
Lecce	29.77	756.1	30.03	762.7	53.2	11.8	67	ssw.	7.4	3.3	.....	.....	6	sw.	.....	0.146	3.7	.....	Prof. C. de Giorgi.
Cosenza	29.13	739.8	30.05	763.2	47.5	8.6	73	wsw.	1.8	0.8	.....	.....	9	sw.	.....	0.299	7.6	.....	Prof. D. Conti.
Cagliari	29.80	756.9	30.00	761.9	55.8	13.2	56	sw.	.....	.....	2	.....	9	w.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.88	758.0	30.13	765.4	58.3	14.6	54	wsw.	8.7	3.9	.....	.....	4	.....	.....	0.028	0.7	.....	Prof. G. Cacciatore
Syracuse	30.04	762.9	30.08	764.1	55.0	12.8	68	e.	3.1	1.4	.....	.....	7	wsw.	.....	0	0	.....	Sig. V. Giuhario.
Sub-series.																			
Naples, Astron'l Obs'y	29.49	749.1	30.03	762.7	50.9	10.5	71	wsw.	4.9	2.2	.....	.....	10	w.	.....	0.028	0.7	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	29.82	757.5	29.85	758.2	37.0	2.8	77	nw.	.....	.....	4	0	0	.....	.....	0.197	5.0	clear	H. Hattori.
Awomori	29.73	755.1	29.76	755.9	33.8	1.0	91	wsw.	14.4	6.4	.....	0	4 n	.....	.....	0.099	2.5	light rain	K. Ogawa.
Hakodate	29.73	755.2	29.74	755.5	32.9	0.5	87	w.	1.8	0.8	.....	0	6 s	.....	.....	0	0	cloudy	Y. Souma.
Hamamatsu	29.84	757.9	29.94	760.4	43.6	6.4	77	wsw.	.....	.....	6	0	0	.....	.....	0.024	0.6	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.09	764.3	30.11	764.7	39.3	4.1	86	ne.	3.2	1.4	.....	1 cs	0	.....	.....	0	0	clear	Y. Okamoto.
Kagoshima	30.16	766.1	30.17	766.4	38.9	3.8	93	n.	.....	.....	2	0	2 s	.....	n.	0	0	clear	
Kanazawa	29.91	759.7	30.02	762.4	41.1	5.1	83	s.	7.6	3.4	.....	0	7s;ks	.....	.....	0.156	4.0	cloudy	S. Endo.
Kioto	29.87	758.6	30.04	763.0	41.5	5.3	82	w.	0.6	0.3	.....	0	1s;ck	.....	.....	0.033	0.8	clear	M. Tojima.
Kochi	30.05	763.2	30.07	763.7	45.1	7.3	78	w.	2.3	1.0	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.12	765.0	30.15	765.7	43.1	6.2	77	wnw.	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masusaki.
Miyako	29.64	752.8	29.75	755.6	33.3	0.7	90	wsw.	2.8	1.2	.....	0	1s;ck	.....	.....	0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.96	761.0	30.17	766.3	44.7	7.1	78	calm	0	0	.....	0	7 s	.....	.....	0	0	cloudy	
Nemuro	29.62	752.3	29.67	753.6	31.0	— 0.6	85	calm	0	0	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	A Shibuya.
Niigata	29.87	758.7	29.90	759.4	37.0	2.8	95	sw.	3.3	1.3	.....	.....	10 s	.....	sw.	0.250	6.3	covered	Satoo & Tomikawa.
Nobiru	29.75	755.7	29.77	756.1	40.4	4.7	78	nw.	7.6	3.4	.....	0	1 s	.....	.....	0.015	0.4	clear	Yoshino & Midzushina.
Numadzu	29.82	757.4	29.85	758.2	43.5	6.4	95	ne.	.....	.....	2	0	2 s	.....	.....	0.063	1.6	clear	T. Ohgi.
Osaka	30.03	762.8	30.05	763.2	38.9	3.8	100	e.	1.7	0.7	.....	0	0	.....	.....	0.055	1.4	clear	d. Omura.
Sakai	30.06	763.6	30.07	763.8	40.2	4.6	90	sw.	.....	.....	2	0	7 ks	.....	w.	0.189	4.8	fair	Yamawchi & Sakamoto.
Sapporo	29.65	753.0	29.72	754.8	25.0	— 3.9	74	sw.	0.4	0.2	.....	.....	9 s	.....	.....	0	0	overcast	S. Kimura.
Shimonoseki	29.97	761.1	30.11	764.8	44.7	7.1	73	sw.	.....	.....	2	0	7 s	.....	nw.	0.008	0.2	fair	S. Sakano.
Tokei Obs'y, Yeddo	29.78	756.5	29.86	758.5	30.2	2.3	98	ene.	3.5	1.5	.....	0	0	.....	.....	0.025	0.6	clear	The Staff.
Wakayama	30.00	762.1	30.06	763.5	43.8	6.0	86	nw.	1.6	0.7	.....	0	0	.....	.....	0.010	0.3	clear	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.52	749.8	29.71	754.6	83.0	28.3	63	sse.	17.5	7.8	.....	2 cs	6 ks;kn	.....	ssw.	0.03	0.8	cloudy	The Staff.
MEXICAN.																			
Leon	24.44	620.8	30.31	769.9	43.5	6.4	77	calm	0	0	.....	4 c	1 s	.....	.....	0	0	fair	M. Leal & M. Pina.
Mazatlan	29.93	760.2	30.20	767.0	63.5	17.5	79	n.	1.6	0.8	.....	0	0	.....	.....	0.315	8.0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.17	740.8	29.17	740.8	41.0	5.0	.....	sw.	.....	.....	6	.....	.....	.....	.....	0.260	6.6	.....	
Groningen	28.97	735.8	29.02	737.2	40.3	4.6	.....	wsw.	.....	.....	2	.....	.....	.....	.....	0.197	5.0	.....	
Helder	28.97	735.7	28.97	735.7	41.0	5.0	.....	sw.	.....	.....	0	.....	.....	.....	.....	0.010	0.4	.....	
Hellevoetsluis	29.11	739.3	29.11	739.3	46.9	8.3	72	wsw.	.....	.....	5	.....	.....	.....	.....	0.067	1.7	.....	
Utrecht	29.08	738.7	29.14	740.1	42.8	6.0	71	wsw.	.....	.....	5	.....	5	.....	.....	0.327	8.3	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.8	.....	.....	79.3	26.3	87	wnw.	0	0	.....	.....	4	.....	.....	0.004	0.1	.....	Lt. J. J. Roptman, R. D. N
NORWEGIAN.																			
Bergen	27.72	704.0	27.78	705.6	38.1	3.4	80	sse.	25	11	.....	.....	10	.....	.....	0.846	21.5	raining	
Brono	28.38	720.9	28.42	721.9	30.6	— 0.8	77	ene.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Christiania	28.09	713.6	28.24	717.3	35.6	2.0	85	sse	27	12	.....	.....	10	.....	.....	0.165	4.2	.....	
Gjesvær	28.81	731.7	28.83	732.3	25.2	— 3.8	.....	ese.	.....	.....	4	.....	5	.....	.....	0	0	.....	
Lodingen	28.58	725.8	28.62	727.0	33.3	0.7	65	s.	.....	.....	6	.....	4	.....	.....	0.154	3.9	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.40	772.1	30.49	774.4	62.8	17.1	65	sse.	3.8	1.7	.....	.....	8	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.96	760.9	30.30	769.5	58.3	14.6	91	wsw.	18.6	8.3	.....	.....	10	.....	.....	0.118	3.0	.....	The Staff.
Ponta Delgada, Azores	30.29	769.3	30.30	771.1	63.3	17.4	82	wnw	8.7	3.9	.....	.....	3	s.	.....	0.024	0.6	.....	
Saint Paul de Loando	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
St. Vincent, Cape Verd Ids.	30.08	764.1	30.12	765.0	68.0	20.0	72	ene.	.....	.....	5	.....	3	.....	.....	0	0	.....	
San Salvador, Congo	28.09	713.5	29.90	759.5	85.1	29.5	61	w.	.....	.....	1	.....	6	.....	.....	0.984	25.0	.....	
Serra da Estrella	25.29	642.4	30.09	764.3	41.9	5.5	100	w.	.....	.....	7	.....	10	.....	.....	7.630	193.8	rain & fog	
RUSSIAN.																			
Akmolinski	29.17	740.9	30.39	772.0	— 3.1	—19.5	94	sw.	7	3	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.20	741.7	29.22	742.2	29.7	— 1.3	94	ssw.	9	4	.....	.....	10	.....	.....	0.055	1.4	.....	Capt. Sselliwerstow
Ashurada	30.29	769.4	30.20	767.0	50.5	10.3	81	sw.	9	4	.....	.....	10 n	.....	.....	0.138	3.5	.....	
Astrakhan	30.35	771.0	30.28	769.0	29.1	— 1.6	86	w.	7	3	.....	.....	10 s;n	.....	.....	blank	blank	h'vy clouds	Capt. Wisganow.
Baku	30.31	769.9	30.26	768.7	41.2	5.1	89	nnw.	22	10	.....	.....	10 kn	.....	.....	0	0	.....	
Barnaul	29.63	752.5	30.17	766.2	18.1	— 7.7	75	sw.	22	10	.....	.....	10	.....	.....	0.012	0.3	.....	Meteorological Office.
Bielosersk	29.10	739.1	29.59	751.5	22.5	— 5.3	75	s.	11	5	.....	0	2 s	.....	.....	0	0	.....	
Dorpat	29.01	736.9	29.26	743.2	33.1	0.6	83	s.	13	6	.....	.....	10ks;n	.....	.....	0.004	0.1	.....	Observatory.
Ekaterimburg	29.11	739.5	30.14	765.6	19.8	— 0.8	38	wsw.	22	10	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	29.54	750.3	30.01	762.3	30.7	— 0.7	96	sse.	13	6	.....	.....	10 n	.....	.....	inap.	inap.	.....	
Kasan	29.08	761.6	30.29	769.3	1.4	—17.0	79	calm	0	0	.....	.....	2	.....	.....	0	0	.....	Observatory.
Kem	29.15	740.4	29.20	741.7	27.7	— 2.4	96	calm	0	0	.....	.....	10 ks	.....	.....	0	0	h'vy clouds	
Kertch	30.14	765.5	30.16	766.1	34.5	1.4	85	calm	0	0	.....	.....	10 n	.....	.....	0.157	4.0	light rain	Lagorio & Sastyres.
Kieff	29.19	741.5	29.85	758.3	32.4	0.2	94	s.	11	5	.....	.....	10 n	.....	.....	.....	.....	.....	Observatory.
Koslov	29.61	752.0	30.14	765.6	25.5	— 3.6	96	ssw.	2	1	.....	.....	9 s	.....	.....	0	0	.....	
Lgov	29.47	748.4	30.09	764.2	23.4	— 4.8	88	se.	13	6	.....	.....	10	.....	.....	blank	blank	.....	R. I. Ssaweljew, Engin'r.
Libau	29.08	738.5	29.10	739.1	37.9	3.3	78	s.	20	9	.....	.....	10	.....	.....	0.106	2.7	.....	E. Quanas.
Lugan	30.03	762.7	30.24	768.2	27.7	— 2.4	87	sse.	4	2	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.41	747.0	29.92	760.0	20.8	— 6.2	83	s.	7.8	3.5	.....	.....	10 s	.....	.....	0	0	.....	Meteorological Obs'y
Nertschinsk	27.91	708.8	30.52	775.1	— 8.7	—22.6	73	nw.	4	2	.....	.....	0	.....	.....	0	0	.....	

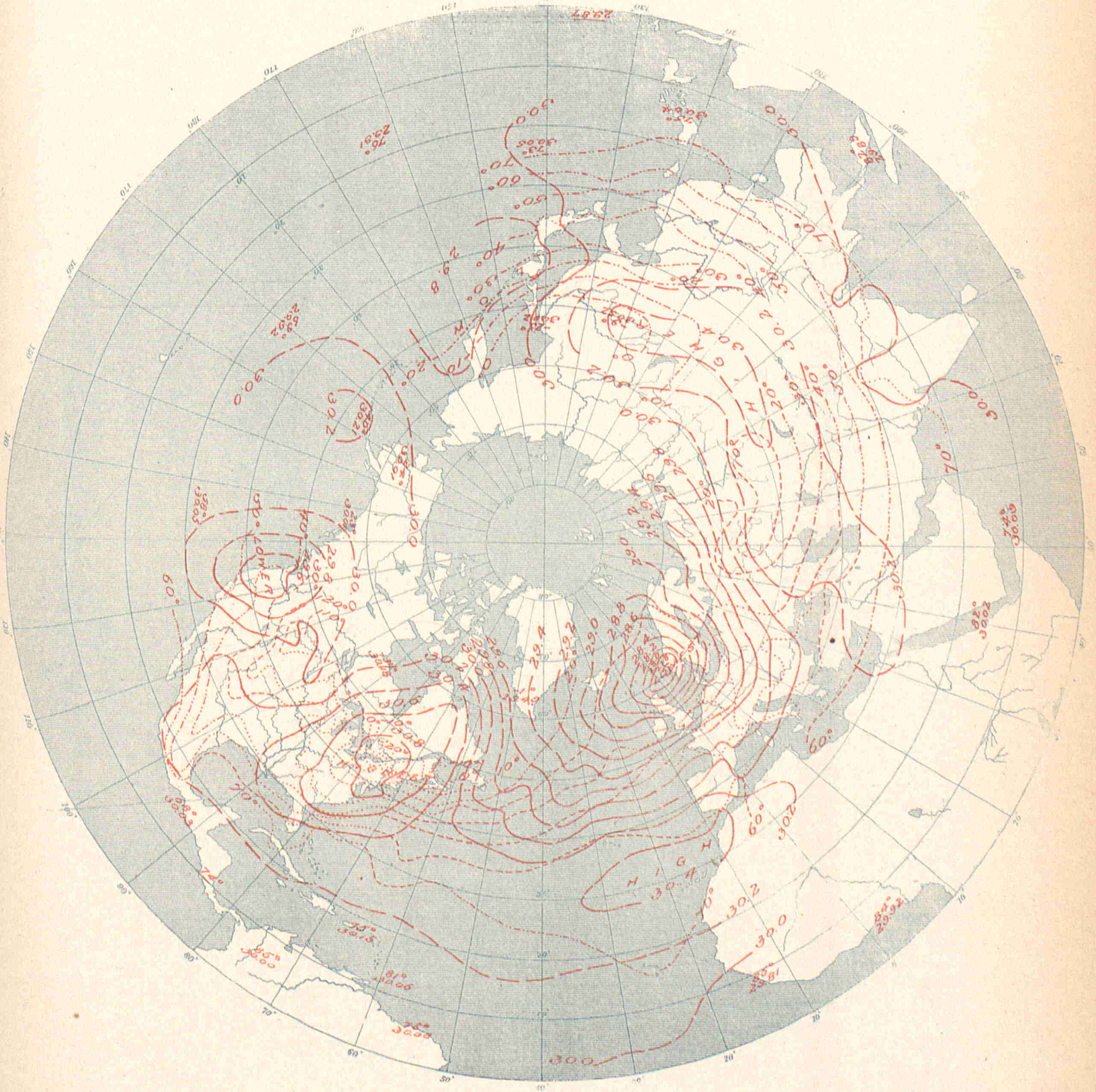
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaiev	29.99	761.7	30.06	763.5	34.3	1.3	92	s.	22	10			10 n			0.063	1.6		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	29.94	760.4	30.02	762.6	—23.3	—30.7	80	w.	4	2		0	0						Iwanow.
Pekin, China	29.88	759.0	30.02	762.6	30.2	— 1.0	76	ne.	2.2	1.0			9 n			0	0		Physical Observatory
Petro-Alexandrovsk	29.87	758.7	30.24	768.1	36.3	2.4	72	e.	1.1	0.5			9 ks						
Petrozavodsk	29.14	740.1	29.34	745.3	27.3	— 2.6	81	ssw.	22	10			10			0.020	0.5		Dr. Bergmann.
Pinsk	29.11	739.5	29.62	752.4	35.6	2.0	66	sse.	22	10		0	3 s			0	0	light clouds	
Poti	30.15	765.8	30.18	766.6	52.2	11.2	78	e.	4	2		0	5 s			0	0		
St. Petersburg	29.31	744.4	29.33	745.0	30.4	— 0.9	80	s.	20	9			10 n			inap.	inap.		Central Physical Obs'y.
Samarkand	27.60	701.0	30.17	766.4	34.2	1.2	82	calm	0	0			10 n						
Semipalatinsk	29.71	754.5	30.42	772.7	16.7	— 8.5	82	w.	9	4			10			0	0		Major Lasarew
Sevastopol	29.85	758.2	30.07	763.8	45.5	7.5	73	s.	40	18		5 cs	0			0.469	11.9		
Starol Bykhov	29.15	740.5	29.73	755.1	32.9	0.5	76	se.	11	5		0	2 ks			0	0		
Tashkend, Laboratory	28.45	722.5	30.22	767.5	30.0	— 1.1	89	sw.	7	3			10 n					heavy cl'ds.	Torch, A. M
Tiflis	28.77	730.7	30.22	767.6	46.9	8.3	57	nw.	9	4		0	2 k			0	0		Physical Observatory.
Vernoe	27.60	701.1	30.28	769.1	21.9	— 5.6	83	calm	0	0			10 n						
Viatka	29.38	746.2	30.06	763.6	11.8	—11.2	95	s.	7	3			7			0	0		
Vladivostock	29.90	759.4	29.97	761.1	17.1	— 8.3	50	n.	13	6		0	0			0	0		
Warsaw	28.97	735.7	29.39	746.6	36.0	2.2	70	s.	18	8		10 ck	0			0	0		Astronomical Obs'y.
Yeniseisk	29.74	755.3	30.04	763.1	18.0	— 7.8	95	s.	2	1			1			blank	blank		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.26	743.2	29.83	757.7	21.7	— 5.7	74	s.	14	6.3			10 s		s.	inap.	inap.	cloudy	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.76	755.9	29.87	758.8	55.2	12.9	61	ne.				c	0			0	0		B. J. Elin.
Bilbao, Met. Obs'y	29.92	759.9	29.98	761.4	55.4	13.0	73	nw.	9.4	4.2		2	3	sw		0.114	2.9	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.02	686.3	30.04	763.0	45.9	7.7	68	sw.	21.7	9.7		0	8			0.197	5.0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.82	706.6	30.06	763.6	54.0	12.2	80	w.	23.9	10.7			9			0.012	0.3	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.98	761.6	30.11	764.9	64.2	17.9	78	wsw.	2.7	1.2		3	4	se.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.02	737.2	29.92	760.0	53.8	12.1	87	s.	9.8	4.4			10			1.193	30.3	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.21	767.3	30.28	769.0	69.3	20.7	91	e.	0.7	0.3		0	1 k			0.09	2.3	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.98	761.6	30.04	763.1	74.6	23.7	85	ese.	6.6	3.0		0	1 ks			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.32	770.2	30.42	772.7	58.8	14.9	82	w.	15.5	6.9			10		w.	0.014	0.4		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.06	763.4	30.15	765.7	75.2	24.0	81	se.	3.0	1.6		2 c	3 k	e.	se.	0	0		Enrique Gaden, Chf Eng
SWEDISH.																			
Haparanda	28.96	735.6	29.00	736.6	23.4	— 4.8	100	se.			2		10			0	0		
Umea	28.74	729.9	28.79	731.2	30.9	— 0.6	100	se.			4		10			0.244	6.2		
Hernosand	28.56	725.3	28.61	726.6	32.7	0.4	96	ssw.			6		10			0	0		
Stockholm	28.53	724.6	28.71	729.1	38.1	3.4	88	s.			4		10			0.020	0.5		
Wisby	28.79	731.2	28.85	732.7	39.6	4.2	90	sw.			7		10			0.205	5.2		
Sub-series.																			
Upsala	28.56	725.3	28.64	727.5	36.0	2.2	94	s.	20.6	9.2			10		s.	0.209	5.3		H. H. Hildebrandsson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.09	764.2	49.8	9.9	67	sw.	10	4.5			10		sw.	0.071	1.8		The Observatory.
Valona			30.11	764.9	56.1	13.4		se.			1		5			0.87	22.	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.27	768.9	59.9	15.5	61	n.			1		0			0	0		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.77	781.5	30.86	783.8	4	—15.6	69	ne.	4	1.8		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	30.03	762.7	30.74	780.8	19.8	— 6.8	84	se.	9	4.0			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.09	637.3	30.21	767.3	34.3	1.3	92	ne.	3	1.3			10 ks		e.	0.16	4.1	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	26.98	685.3	30.02	762.5	5.0	—15.0	76	w.	1	0.4		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.41	747.0	30.64	778.2	30.5	— 0.8	63	e.	18	8.0		1 ck	0	w.		0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.76	781.3	30.78	781.8	18.3	—7.6	67	n.	8	3.6		1 k	0	n.		0	0	clear	B. A. Blundon.
Augusta, Georgia	30.52	775.2	30.72	780.3	32.5	0.3	68	ne.	4	1.8		1 cs	0			0	0	clear	W. J. Evans.
Baltimore, Maryland	30.80	782.3	30.84	783.3	24.0	— 4.4	48	nw.	4	1.8		0	0			0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.78	781.8	30.80	782.3	19.1	— 7.2	70	n.	11	4.9		0	3 s			0	0	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.23	717.0	29.97	761.2	12.4	—10.9	65	nw.	3	1.3		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.08	687.8	30.03	763.5	3.0	—10.1	26	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	27.98	710.7	29.98	761.5	13.5	—10.3	76	e.	4	1.8		0	2 s			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.76	781.3	30.80	782.3	19.5	— 6.9	67	n.	26	11.6		1 cs	0	n.		0	0	clear	J. T. Elker.
Boise City, Idaho	26.78	680.2	29.71	754.6	30	— 1.1	88	se.	4	1.8			10 s			0.04	1.0	cloudy	James Kenealy.
Boston, Massachusetts	30.52	775.2	30.69	779.5	14.5	— 9.7	82	nw.	16	7.2		0	0			0	0	clear	O. B. Cole.
Brownsville, Texas	30.20	767.1	30.26	768.0	59.3	15.2	100	calm	0	0			10 n			inap.	inap.	light snow	Wm. Finn.
Buffalo, New York	30.02	762.5	30.82	782.8	14.5	— 9.7	85	s.	2	0.9			10 n			0	0	clear	A. Schneider.
Buford, Fort, Dakota	27.74	704.6	29.98	761.5	8.8	—12.9	89	ne.	4	1.8		0	0			0	0	cloudy	W. H. Ray.
Cairo, Illinois	30.11	764.8	30.53	775.4	33.0	0.6	78	s.	4	1.8			10 s		s.	0	0	cloudy	J. H. Smith.
Canby, Fort, Washington Ter	29.23	742.4	29.43	747.5	37.0	2.8	89	e.	5	2.2		0	4 s			0.14	3.6	fair	D. O'Donoghue.
Cape Henry, Virginia	30.76	781.3	30.78	781.8	31.5	— 0.3	68	ne.	20	8.9		0	0			0	0	clear	B. L. Goulding.
Cape May, New Jersey	30.78	781.8	30.81	782.6	20.0	— 6.7	70	n.	10	4.5		0	0			0	0	clear	A. K. Alderson.
Cape Mendocino, California	28.75	730.2	29.45	748.0	43	6.1	93	se.			6		10 s			0.09	2.3	cloudy	W. E. Smith.
Cedar Keys, Florida	30.44	773.2	30.46	773.7	49.0	9.4	93	ne.	15	6.7		0	0			0	0	clear	A. P. Leavitt.
Charleston, S. Carolina	30.58	776.7	30.64	778.2	36.0	2.2	69	ne.	11	4.9			10 s		ne.	0	0	cloudy	G. W. Davis.
Charlotte, N. Carolina	29.83	757.7	30.72	780.3	28.0	— 2.2	63	ne.	5	2.2		0	0			0	0	clear	J. H. Smith.
Chattanooga, Tennessee	29.76	755.9	30.62	777.7	31.0	— 0.6	78	ne.	3	1.3		7 cs	0	nw.		0	0	fair	D. O'Donoghue.
Cheyenne, Wyoming	23.84	605.5	30.11	764.8	17.4	— 8.1	68	nw.	8	3.6		0	0			0	0	clear	B. L. Goulding.
Chicago, Illinois	29.80	756.9	30.55	776.0	27.3	— 2.0	55	se.	11	4.9		0	8 s			0	0	cloudy	E. McGovern.
Chincoteague, Virginia	30.78	781.8	30.80	782.3	25.3	— 3.7	74	n.	20	8.9		0	0			0	0	clear	Wm. Norrington.
Cincinnati, Ohio	29.96	761.0	30.66	778.7	21.2	— 6.0	73	e.	1	0.4		3 cs	0			0	0	clear	C. F. Dickens.
Cleveland, Ohio	29.95	760.7	30.73	780.5	11.5	—11.4	80	se.	5	2.2		0	hz.			0	0	clear	L. Dunne.
Columbus, Ohio	29.77	756.1	30.07	779.0	16.7	— 8.5	73	e.	7	3.1			10 s			0	0	cloudy	W. Line.
Concho, Fort, Texas	28.30	718.8	30.32	770.1	42.0	5.6	100	ne.	2	0.9			10 s			0.55	14.0	cloudy	F. T. Williams.
Custer, Fort, Montana	26.61	675.9	29.99	761.7	4	—15.6	52	se.	5	2.2		0	0			0	0	clear	C. E. King.
Davenport, Iowa	29.71	754.6	30.42	772.7	30	— 1.1	71	se.	8	3.6			10 s			0	0	cloudy	W. J. Daily.
Davis, Fort, Texas	25.34	643.6	30.32	770.1	29.3	— 1.5	91	calm	0	0		0	0			0	0	clear	R. R. Martin.
Dayton, Washington T'y	27.81	666.4	29.62	752.3	34.5	1.4	77	n.	3	1.3			10 s			inap.	inap.	cloudy	J. Williams.
Deadwood, Dakota	25.11	637.8	30.06	763.5	30.0	— 1.1	78	s.	1	0.4		0	0			0	0	clear	H. S. Blandford.
Delaware Breakwater, Del.	30.79	782.1	30.81	782.6	22.3	— 5.4	74	ne.	19	8.5		0	hz.			0	0	clear	G. Kingsbury.
Denver, Colorado	24.59	624.6	30.11	764.8	23.9	— 4.5	68	n.	10	4.5		0	0			0	0	clear	G. A. Martin.
Des Moines, Iowa	29.32	744.7	30.29	769.4	30	— 1.1	68	s.	6	2.7			10 n		s.	0.02	0.5	light snow	F. M. Neal.
Detroit, Michigan	30.00	762.0	30.76	781.3	24.2	— 4.3	73	calm	0	0			10 s			inap.	inap.	cloudy	F. W. Conrad.
Dodge City, Kansas	27.35	694.7	30.10	764.5	35.7	2.1	82	se.	24	10.7			10 s		se.	0	0	cloudy	N. B. Conger.
Dubuque, Iowa	29.66	753.4	30.43	772.9	24.5	— 4.2	63	se.	5	2.2			10 s			0	0	cloudy	J. E. Lanouette.
Duluth, Minnesota	29.58	751.3	30.39	771.9	19.0	— 7.2	91	ne.	20	11.6			10 s			0	0	cloudy	J. Harvey Smith
Eastport, Maine	30.59	777.0	30.66	778.7	3.5	—15.8	72	nw.	18	8.0		0	2 s		nw.	0	0	clear	E. R. Brace.
Elliott, Fort, Texas	27.26	692.4	30.20	767.1	35.1	1.7	100	s.	15	6.7			10 s			0.05	1.3	cloudy	D. C. Murphy.
El Paso, Texas	26.44	671.6	30.32	770.1	35.0	1.7	100	calm	0	0		0	0			0	0	clear	J. C. Rickli.
Erie, Pennsylvania	30.02	762.5	30.78	781.8	10.7	—11.8	86	se.	7	3.1		2 cs	0	w.		inap.	inap.	clear	J. O'Dowd.
Escanaba, Michigan	29.87	758.7	30.59	777.0	12.5	—10.8	80	sw.	6	2.7		10 cs	0			0	0	cloudy	C. A. Shaw.
Fort Smith, Arkansas	29.86	758.4	30.36	771.1	33.5	0.8	70	e.	7	3.1			10 s		s.	inap.	inap.	cloudy	L. M. Pindell.
Galveston, Texas	30.25	768.3	30.29	769.4	51.4	10.8	86	se.	8	3.6		hz.	4 s		s.	0	0	fair	J. B. Campbell.
Grand Haven, Michigan	29.92	760.0	30.63	778.0	22.0	— 5.6	80	e.	7	3.1			10 s			0.01	0.3	cloudy	E. O'C. Macinerney
Grant, Fort, Arizona	25.33	643.4	30.23	767.8	34.7	1.5	76	e.	7	3.1		4 cs	0	s.		0.50	12.7	fair	Joseph E. Mucile
																			Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.69	779.5	30.70	779.8	36.0	2.2	89	n.	15	6.7		0	3 k		ne.	0	0	clear	R. M. Crawford.
Helena, Montana	25.58	649.7	29.96	761.0	5.1	—14.9	76	n.	4	1.8		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	28.48	723.4	30.02	762.5	25.2	— 3.8	92	se.	18	8.0		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.72	754.9	30.56	776.2	23.0	— 5.0	73	e.	5	2.2			10 s		e.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.23	767.8	30.26	768.6	52.0	11.1	100	se.	16	7.2			10 s			0.01	0.3	cloudy	I. A. Reed.
Jacksonville Florida	30.48	774 2	30.53	775.4	47.4	8.6	88	n.	5	2.2			10 s			0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.71	754.6	30.41	772.4	28.3	— 2.1	84	se.	5	2.2			10 s		se.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.27	768.8	30.29	769.4	68	20.0	93	ne.	12	5.4		0	4 k		ne.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.73	780.5	30.75	781.0	35.0	1.7	75	ne.	22	9.8		0	3 k		ne.	0	0	clear	Wesley Blake.
Knoxville, Tennessee	29.54	750.3	30.62	777.7	26.8	— 2.9	95	ne.	3	1.3		5c;cs	0	w.		0	0	fair	J. N. Cody.
La Crosse, Wisconsin	29.55	750.6	30.39	771.9	30	— 1.1	68	se.	12	5.4			10 s			0	0	cloudy	S. C. Emery
Leavenworth, Kansas	29.34	745.2	30.30	769.6	31.2	— 0.4	86	s.	9	4.0			10 n			0.08	2.0	light snow	T. S. Outram.
Lewiston, Idaho	28.83	732.3	29.70	754.4	27.0	— 2.8	76	calm	0	0		0	0			0.04	1.0	clear	O. E. Butler.
Little Rock, Arkansas	30.09	764.3	30.42	772.7	35.0	1.7	79	e.	2	0.9			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.71	754.6	30.11	764.8	49.8	9.9	93	se.	12	5.4			10 s			0.01	0.3	threatening.	T. S. Collins
Louisville, Kentucky	29.99	761.7	30.58	776.7	27.3	— 2.6	65	ne.	3	1.3		5 cs	0			0	0	fair	L. M Dey.
Lynchburg, Virginia	30.05	763.3	30.77	781.5	23.0	— 5.0	80	calm	0	0		3 c	fg.			0	0	clear	Jno. Healy.
Mackinaw City, Michigan	30.01	762.2	30.71	780.0	17 0	— 8.3	83	e	8	3.6			10 s		s.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.71	780.0	30.72	780.3	32.0	0.0	85	ne.	17	7.6		0	hz.			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.30	642.6	30.07	763.8	27.5	— 2.5	36	w.	15	6.7		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.82	757.4	30.60	777.2	19.0	— 7.2	76	se	8	3.6			10 s			0	0	cloudy	J. Gilligan.
Memphis, Tennessee	30.14	765.5	30.50	774.7	32.5	0.3	83	e.	2	0.9			10 s			0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.75	755.6	30.55	776.0	29.8	— 1.2	80	se.	21	9.4			10 s			0	0	cloudy	S. W. Rhode.
Mobile, Alabama	30.44	773 2	30.48	774.2	39.6	4.2	80	n.	6	2.7			10 s		n.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.31	769 9	30.55	776.0	39	3.9	65	e.	8	3.6			10 s		e.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	28.95	735.3	30.06	763.5	21.4	— 5.9	84	s.	18	8.0			10 s		s.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.76	603.5	30.39	771.9	— 9.9	—23.3		nw.	72	32.2		7 cs	0			0.05	1.3	fair	Edwd. A. Beals.
Nashville, Tennessee	29.92	760.0	30.53	775.4	25.0	— 3.9	88	e.	3	1.3		6 cs	0	sw.		0	0	fair	L. N. Jesunofsky
New Haven, Connecticut	30.67	779.0	30.79	782.1	12.5	—10.8	89	n.	5	2.2		0	hz.			0	0	dense haze	J. H. Sherman.
New London, Connecticut	30.74	780.8	30.79	782.1	17.0	— 8.3	61	n.	6	2.7		1 cs	0	nw.		0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.39	771.9	30.45	773.4	42.0	5.6	81	se.	9	4.0			10 k		se.	0	0	cloudy	M. Herman.
New York, New York	30.63	778.0	30.82	782.8	21.0	— 6.1	70	nw.	4	1.8		0	4 s			0	0	fair	H. J. Penrod.
Norfolk, Virginia	30.73	780.5	30.76	781.3	29.0	— 1.7	77	n.	6	2.7		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	26.96	684.8	30.08	764.0	14.6	— 9.7	80	calm	0	0		0	0			0	0	clear	J. J. Mc Lean.
Olympia, Washington Ter	29.58	751.3	29.62	752.3	40.0	4.4	89	calm	0	0			10 n			0.41	10.4	light rain	J. Dascomb
Omaha, Nebraska	28.94	735.1	30.22	767.6	31.8	— 0.1	76	se.	16	7.2			10 s			0	0	cloudy	A. Pollak
Oswego, New York	30.49	774.4	30.84	783.3	16.7	— 8.5	58	e.	3	1.3		8 cs	hz.			0.03	0.8	cloudy	J. G. Linsley.
Palestine, Texas	29.79	756.7	30.37	771.4	38.5	3.6	82	e.	4	1.8			10 n		ne.	0.01	0.3	light rain	P. T. Jenkins.
Pensacola, Florida	30.44	773.2	30.47	773.9	46.2	7.9	76	ne.	12	5.4		2 cs	4 s	w.	e.	0	0	fair	M. McGauran.
Philadelphia, Pa.	30.72	780.3	30.82	782.8	20	— 6.7	70	n.	7	3.1		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.46	443.5	30.16	766.1	— 4.0	—20.0	79	w.	38	17.0		0	0			inap.	inap.	clear	H. Hall.
Pittsburg, Pennsylvania	29.90	759.4	30.75	781.0	7.5	—13.6	95	ne.	3	1.3		0	fg.			0	0	clear	O. D. Stewart
Poplar River, Montana					— 5.3	—20.7	100	e.			1		10 n			inap.	inap.	light snow	G. A. Garden.
Port Huron, Michigan	29.97	761.2	30.70	779.8	12.2	—11.0	80	se.	4	1.8		6 ck	0			0	0	fair	M. H. Perry
Portland, Maine	30.68	779.3	30.73	780.5	14.2	— 9.9	73	w.	1	0.4			hz.			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.39	746 5	29.46	748.3	32.5	0.3	94	n.	1	0.4			10 s			0.21	5.3	cloudy	M. L. Hearne.
Prescott, Arizona	24.80	629.9	30.18	766.6	37.0	2.8	82	s.	7	3.1			10 s		s.	inap.	inap.	cloudy	N. D. Lane.
Provincetown, Mass	30.70	779.8	30.73	780.5	20.8	— 6.2	75	n.	10	4.5		0	5 ks		n.	0	0	fair	C. N. Kitchel.
Red Bluff, California	29.21	741.9	29.58	751.3	46	7.8	89	s.	36	16.1		0	2 ks		s	0.60	15.2	clear	J. R. Williams.
Rio Grande City, Texas	30.04	763.0	30.29	769.4	57.2	14.0	94	n.	5	2.2		0	1 s			0	0	clear	L. G. Schultz.
Rochester, N. Y.	30.11	764.8	30.82	782.8	15	— 9.4	87	sw.	3	1.3			10 n			0.02	0.5	light snow	E. W. McGann.
Roseburg, Oregon	28.85	732 8	29.42	747.3	37.1	2.8	92	s.	1	0.4			fg.			0.15	3.8	dense fog	J. J. Nanry.
Sacramento, California	29.65	753.1	29.73	755.1	46.5	8.1	93	se.	21	9.4			10 s		se.	0.75	19.0	cloudy	J. A. Barwick
St. Louis, Missouri	29.81	757.2	30.47	773.9	35.9	2.2	63	se.	11	4.9			10 s			0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.98	761.5	30.01	762.2	24	— 4.4	100	sw.			2		10 n			0.01	0.3	light snow	Fred. H. Clarke.
St. Paul, Minnesota	29.34	745.2	30.28	769.1	29.5	— 1.4	88	se.	19	8.5			10 s		se.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.13	739.9	30.11	764.8	21	— 6.1	91	se.	12	5.4			10 s			0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.41	646.2	30.02	762.5	37	2.8	58	se.	7	3.1			10 s			inap.	inap.	cloudy	J. Craig.
San Diego, California	30.06	763.5	30.13	765.3	51.7	10.9	72	e.	3	1.3			10 s		sw.	0.07	1.8	cloudy	F. R. Day.
Sandusky, Ohio	29.98	761.5	30.70	779.8	19	— 7.2	70	se.	6	2.7		0	5 s		se.	0	0	fair	B. F. Hough.
Sandy Hook, New Jersey	30.78	781.8	30.81	782.6	22.3	— 5.4	73	ne.	18	8.0		0	0			0	0	clear	V. P. Chappel.
Sanford, Florida	30.39	771.9	30.44	773.2	56.0	13.3	90	nw.	6	2.7		0	3 ks		nw.	0	0	clear	J. B. Marbury
San Francisco, California	29.63	752.6	29.70	754.4	51.5	10.8	86	s.	18	8.0		0	5 s		sw.	0.63	16.0	fair	N. Gorom.
Savannah, Georgia	30.53	775.4	30.63	778.0	35	1.7	69	n.	9	4.0		0	0			0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.17	664.7	30.03	762.7	15	— 9.4	83	w.	7	3.1			10 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.12	765.0	30.37	771.4	35.5	1.9	67	se.	2	0.9			10 s		se.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	29.94	760.5	30.01	762.2	23	— 5.0	61	ne.	12	5.4		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	30.05	778.5	30.69	779.5	30.7	— 0.7	81	n.	12	5.4			10 s		e.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.58	700.5	29.72	754.9	27.8	— 2.3	90	ne	4	1.8			10 n			0.04	1.0	light snow	D. Moore.
Springfield, Illinois	29.73	755.1	30.46	773 7	29.0	— 1.7	84	se.	11	4.9			10 s			0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.15	689.6	30.29	769.4	32.0	0.0	81	calm	0	0		0	0			inap.	inap.	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.38	746.2			39.5	4.2	94	e.	12	5.4			10 s			0.03	0.8	cloudy	R. Connor.
Thomas, Camp, Arizona	27.50	698.5	30.33	770.4	33	0.6	68	calm			0	0	0			0.35	8.9	clear	R. C. Lord.
Toledo, Ohio	29.95	760.7	30.69	779.5	18.2	— 7.7	69	se.	4	1.8			10 s		s.	inap.	inap.	cloudy	A. Buell.
Unalashka, Alaska	30.19	766.8	30.21	767.3	40	4.4	82	s.	24	10.7			10 s		s.	0.08	2.0	cloudy	Samuel Applegate.
Vicksburg, Mississippi	30.19	766.8	30.46	773.7	35.5	1.9	64	se.	12	5.4		8 cs	0	s.		0	0	cloudy	C. Dill.
Washington, D. C.	30.72	780.3	30.84	783.3	19.8	— 6.8	72	n.	2	0.9		2cs;hz	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.92	658.4	30.05	763.3	23.5	— 4.7	82	w	6	2.7		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N Carolina	30.68	779.3	30.74	780.8	29.0	— 1.7	77	ne.	6	2.7		0	0			0	0	clear	L. H. Albrecht.
Yankton, Dakota	28.68	728.5	30.10	764.5	28.9	— 1.7	72	s.	15	6.7		2 c	0	s.		0	0	clear	E. H. Thompson.
Yuma, Arizona	29.93	760.2	30.08	764.0	49.1	9.5	76	e.	1	0.4			10 s		w.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.68	753.9	29.70	754.4	19.3	— 7.1	67	n.	12	5.4			10 n			0	0	cloudy	George Cherulck.
Bluefields, Nicaragua, C. A.					76	24.4		n.			1	0	4 n		n.	0.44	11.2	fair	W. H. Jackson.
Bogota, U. S. C.	22.02	559.3			52.7	11.5	80	ne.	2	1		4 cs	2 k	sw.	s.	0	0		Joaquin Gomez.
Chimo, Fort, Ungava	30.45	773.4	30.61	777.5	—34	—36.7	100	calm	0	0		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.14	765.5	65.6	18.7	92	calm	0	0		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	76	24.4	91	e.			3		10 n	e.	e.	0.350	8.9	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.44	747.8	30.00	762.0	85	29.4	65	calm			0		7 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	90	ne.			2		5 ks		ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.10	764.5	30.18	766.6	—31.0	—35.0		w	11	4.9		1 c	1 s	w.	w.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.97	761.3	29.98	761.5	77.7	25.4	87	n.	10.5	4.7		0	7 k		n.			hazy	P. Fasiani.
Naos, Bay of Panama	29.96	760.9	30.02	762.6	73.8	23.2	86	nw.			4	0	1 ks		n.			clear	Antonio Fabre.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 47° 06′, W. 28° 24′						wnw.			5		8		w.	2 h'r	2 h'r	high	w.n	cloudy.
S. S. Alleghany, off Montauk Pt, L.I†	30.81	782.6	20	— 6.7		n.			2		2		n.	0	0			clear.
Schr. Anna A. Holton, N. 38° 03′, W. 74° 03′			36	2.2		ne.			6		8		ne	0	0	r'gh	ne.	fair.
S. S. Alps, N. 20° 59′, W. 66° 41′			79	26.1		e.			3		6		e.	rain	rain		e.	
S. S. British Prince, N. 41° 48′, W. 65° 10′ †	30.48	774.2	26	— 3.3		nnw.			6		7		nnw.	5 h'r	5 h'r	r'gh	nnw.	overcast.
S. S. Circassian, N. 44° 29′, W. 63° 09′	30.46	773.7	10	—12.2		n.			3–4		7		n.			sm'h		rain & snow
S. S. City of Augusta. N. 33° 34′, W. 78° 06′ †	30.79	782.1				ne.			6		10			0	0	ne.		cloudy.
S. S. Denmark, New York, N Y†	30.80	782.3	20	—6.7	100	ne.			2		4			0	0			clear.
S. S. Daniel Steinmann. N. 44° 26′, W. 63° 30′ †	30.49	774.1	18	— 7.8		nw.			5		0			0	0	sm'h		
S. S. France, N. 44° 35′. W. 48° 30′	30.02	762.5				nw.			5		8		n.			sm'h	n	cloudy.
S. S. Gen. Werder, N. 43° 39′, W. 54° 00′	30.15	765.8				wnw.			7		10		wnw.			cross	nw.	snowing
Bg. Lilian, N 36° 20′, W. 71° —†	30.54	775.7				n.			6		10			0	0	mod.	n, ne	cloudy.
S. S. Llandaff City, N. 40° 36′. W. 69° 01′			28	— 2.2		n.			5		6		n	0	0	sm'h		fair.
S. S. Lessing, N. 42° 24′ W. 55° 56′	30.14	765.5	32	0.0		nw.			6		10		nw.	0	0	r'gh	wnw.	overcast.
S. S. Mentmore, N. 40° 21′. W. 66° 20′						ne.			9		10			12 h'r	12 h'r	mod		gloomy.
S. S. Nova Scotian, N 41° 38′ W. 51° 42′	30.08	764.0	42	5.6		wnw.			4		10		w.			mod.	sw.	cloudy
S. S. Pavonia, N. 44° 30′, W. 45° 01′	29.89	759.2	41	5.0	83	w			5		10		w.	3 h'r	3 h'r	mod	cross	sleeting.
S. S. Picqua, Boston, Mass			26?	—3.3?		wnw.			3		0			0	0			clear.
S. S. Romano, New York Harbor, N. Y			28	— 2.2		nne.			3		4		nne.	0	0			fair.
Bk. Rosina, N. 38° 59′, W. 73° 48′			32	0.0		nne.			3		10			0	0	mod.	n.	gloomy.
Bgt. Sunlight, N. 32° 19′, W. 74° 35′†	30.42	772.7				ne.			5		8		ne.	6 h'r	6 h'r	r'gh.	n,	cloudy.
S. S. Thingvalla, N. 42° 22′, W. 65° 08′ †	30.44	773.2	24.8	— 4		nnw.			5		8		nnw.	2 h'r	2 h'r	mod.	nn.w.	cloudy.
S. S. Valencia, N. 22° 20′, W. 69° 23′ †	30.23	767.8	77	25.0	82	ene.			3		3		ne.	1 h'r	1 h'r	h'vy	ene.	clear.
S. S. Westphalia, New York, N. Y			18	— 7.8	100	nne.			2		10			0	0			cloudy.
S. S. Zaandam, N. 40° 11′, W. 69° 08′	30.67	779.0			78	nw.			5		10			0	0	sm'h		cloudy.
S. S. Andes, N. 19° 00′. W. 75° 00′ *†	30.18	766.6	82	27.8		ne.			3		0			0	0			clear.
Bk. Ariadne, New York, N. Y.	30.74	780.8	20	— 6.7		nne.			3		0			0	0			clear.
Schr. Annie R. Lewis, Cienfuegos, Cuba. W.I			72	22.2		nne.			2		0			0	0			clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.30	769.6				ne.			6		4		ne.	0	0	sm'h		fair.
Bk. Aureola, N 25° 51′, W. 67° 53′. †	30.25	768.3	83?	28.3?		nne.			5		3		nne.	1 h'r	1 h'r	mod.	e.	clear.
U. S. S. Alliance, N. 20° 32′. W. 72° 55′	30.12	765.0	76	24.4	77	ene.			5		0			0	0	sm'h		clear.
S. S. Britannic, N. 51° 19′ W. 15° 06′ *†	29.32	744.7	40	4.4		nw.			7		4		nw.	3 h'r	3 h'r	high	nw.	squally
S. S. British Princess, N. 50° 36′ W. 14° 25′			42	5.6		wnw.			7		9 ks		wnw.	10 h'r	10 h'r	hv'y	wnw.	squally.
S. S. Chalmette, N. 37° 24′, W. 74° 40′ †	30.77	781.5	34	1.1		n.			5		3		ne.	0	0	sm'h		clear.
S. S. Donau, N. 49° 24′, W. 18° 39′			48.2	9.0		w.			6		6		wnw.	6 h'r	6 h'r	long	wnw.	squally.
S. S. England, N. 51° 12′ W. 14° 53′	29.28	743.7				wnw.			8		8		wnw.			h'vy	wnw.	squally.
Schr. Ellen Crusoe, N. 37° 24′ W. 74° 26′ *†	30.80	782.3				n.							ne.	0	0	long		cloudy.
S. S. Gallia, Queenstown, Ireland	29.08	738.6	42	5.6		w.			6		10		w.	snow	snow			snowy.
Bg. George, N. 26° 44′. W. 70° 49′ *†	30.30	769.6				nnw.			1		2		n.	1 h'r	1 h'r	mod.	ene.	fair.
S. S. Grecian, Dunkirk, Belgium	29.19	741.4	43	6.1	56	sw.			7		4		sw.	6 h'r	6 h'r			squally.
S. S. Holland, N. 49° 36′ W. 25° 07′			41	5.0		wnw.			6		5		w.	3 h'r	3 h'r	h'vy	w.	fair.
Bg. John Welsh, jr., Mobile, Ala †	30.40	772.1				ene.			3		10		e.					cloudy.
S. S. Lone Star, N. 28° 25′, W. 80° 15′*†	30.44	773.2				ene.			4		5		ene.	0	0	r'gh	ene.	fair.
S. S. Muriel, Antigua, W. I	30.13	765.3	78	25.6		ene.			3		0			0	0			clear.
S. S. Ontario, N. 45° 49′, W. 49° 45′	29.86	758.4	24.5	— 4.2		wnw.			6		8		wnw.	5 h'r	5 h'r	sm'h	w.	snowing.
S. S. Orinoco, N. 33° 55′, W. 66° 06′ †	30.32	770.1	66	18.9		ne.			3		5		ne	2 h'r	2 h'r	long	ne.	fine.
S. S. Rhaeti . N. 49° 56′, W. 9° 32′	29.43	747.4	44	6.7	96	sw.			7		8		wsw.	rain	rain	r'gh	w.	squally.
Bk. Saga, N. 34° 00′, W. 74° 25′			57	13.9		ne.			6–9		9		n.ne	3¾hr	3¾ hr	r'gh	var.	cloudy.
S. S. Salerno, N. 49° 00′, W. 18° 19′†	29.50	749.3	46	7.8		w.			8		10		w.	0	0	h'vy	w.	hail squ'lls.
S. S. St. Laurent, N. 49° 45′, W. 5° 15′			44.6	7.0		w.			8		10		w.	5 h'r	5 h'r	large	wsw.	rainy.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.23	767.8	73	22.8	76	ene.			2		2		ene.	0	0			clear.
U. S. S. Tennessee. Aspinwall, U. S. C	30.02	762 5	79	26.1	74	nne.	12	5.4			8		n.	0.01	0.3	grn'd	nne.	cloudy.
U. S. S. Vandalia. La Guayra, Venezuela	30.07	763.8	73	22.8	76	ene.			1		0							clear.
S. S. Wyoming, N. 51° 50′ W. 7° 35′.			40	4.4		w.			6		5		w.	6 h'r	6 h'r	h'vy	w.	threatening.
S. S. Westernland, N. 50° 35′. W. 1° 00′	29.30	744.2	44	6.7		w.			7		7		wsw.	6 h'r	6 h'r	high	wsw.	cloudy.
S. S. Zeeland, N. 47° 48′. W. 30° 49′*†	29.50	749.3	42	5.6		wnw.			6		2		wnw.	hail	hail	long	wnw.	squally.
S. S. City of Berlin, N. 41° 52′, W. 65° 10′	30.51	774.9	22	— 5.6		nw.			6								nw.	snowing.
S. Oreola, N. 0° 40′, W. 25° 50′ *	29.96	761.0				se.			4		0			3 h'r	3 h'r	short	nw.	clear.
U. S. Navy Yard, Portsmouth, N. H*	30.78	781.8	14	—10.0	82	nnw.	10	4.5			0			0	0			clear.
U. S. S. Kearsarge, Leghorn, Italy	29.69	754 1	54	12.2	61	se.			3		10							sprinkling.
U. S. S. Lancaster, Leghorn, Italy			52	11.1	100	sw.			5–6		10		sw.	mod.	mod.	sm'h		cloudy.
U. S. S. New Hampshire, Newport, R. I	30.77	781.5	17	— 8.3	100	nw.			3		2		nw.			sm'h		fair.
U. S. S. Quinnebaug, Leghorn, Italy	29.67	753.6	52	11.1	66	ssw.			3		10		w.			sm'h		cloudy.
U. S. S. Shenandoah, N. 15° 13′, W. 23° 49′ *	30.14	765.5	70	21.1	90	e.			5		2		calm			mod.	e.	fair.
U. S. S. Trenton, Marseilles, France	29.83	757.7	56	13.3	69	nw.			5		5		nw.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.18	766.6	59	15.0	70	nw.			2		3	nw.						d. clouds.
H. M. S. Alecto, N. 8° 30, W. 13° 15′	29.86	758.4	85	29.4		ne.			1		1							blue sky.
H. M. S. Comus, N. 29° 45′, W. 28° 00′	30.42	772.7	66	18.9	79	ene.			3		6					3	ene.	
H. M. Dockyard, Bermuda, Atlantic	30.31	769.9	60	15.6	76	nnw.			6		6	nne.						squally.
H. M. S. Minotaur, N. 39° 00′, E. 8° 30′	30.03	762.7	57	13.9	69	sw.			5		9							d. clouds.
H. M. S. Woodlark, N. 34° 00′, E 23° 50′	30.14	765.5	61	16.1	71	ssw.			5		5	ssw.				5	wnw.	d. clouds.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.92	760.0	83.8	28.8	80	ssw.			3		2			0	0	2	sw.	d. clouds.
S. S. Ohio, (Am) Philadelphia, Pa			27	— 2.8	100	ne.			1		10		sw.	0	0			cloudy.
S. S. Pennsylvania, N. 44° 08′, W. 56° 38′†	30.19	766.8	30	— 1.1	89	n.			4		8		n.	4 h'r	4 h'r	mod.	n.	squally.
S. S. Prussian, N. 48° 36′ W. 44° 24′	29.88	758.9	21	— 6.1		w.			4		8		wnw.			mod.	w.	light snow.
S. S. Scandinavian, N. 42° 34′, W. 65° 41′			23	— 5.0		nw.			6		10		nw.	0	0	short	nw.	overcast.
S. S. Sardinian, N. 55° 17′, W. 9° 00′	28.93	734.8	40	4.4		w.			8		7		w.	0	0	h'vy	wnw.	squally.
S. S. Ailsa, N. 26° 02′, W 74° 10′			75	23.9	90	ne.			4		5		e.	0	0	light	ne.	fine.
S. S. Devonia, N. 52° 05′, W. 29° 36′†	29.44	747.8	33	0.6		nw.			4		6?		wnw.	5 h'r	5 h'r	h'vy	nw.	clear.?
S. S. Carroll, N. 43° 10′, W. 66° 42′*†	30.70	779.8	20	— 6.7		n.			4		6		n.	0	0	short	n.	fair.
S. S. Wisconsin. N 48° 20′, W. 40° 20′	29.72	754.9	33	0.6		w.			4		10		n.	snow	snow	long	n.	cloudy.
S. S. Bohemia, Hamburg, Germany						wsw.			7–9		10		sw.	4 h'r	4 h'r			sleeting.
S. S. Virginian, N 50° 22′, W. 12° —			52	11.1		sw.			5					0	0		sw.	
S. S. Olbers, N. 47° 26′, W. 33° 08	29.44	747.8	46	7.8	92	w.			6		9							overcast.
S. S. Texas, N. 25° 18′, W. 84° 52′			78	25.6	86	se.			2		4?		se.	0	0	mod.	n.	cloudy.?
S. S. City of Washington, N. 30° 00′, W. 77° 40′*†	30.40	772.1	70	21.1		ne.			4		2		ne.	0	0	light	ne.	fine
S. S. Erin, London, Eng	29.19	741 4	40	4.4		wsw.			6		6		wsw.	0	0			gale.
S. S. Greece, N. 40° 20′ W. 70° 52′†.	30.70	779.8	27	— 2.8	76	n.			4		4		nne.	0	0	sm'h		fine.
S. S. Salier, N. 45° 17′. W. 50° 22′*	29.94	760.5				n.			4		10		ne.	3 h'r	3 h'r	light	n.	covered.
S. S. Rhynland, N. 50° 04′, W. 22° 22′			47	8.3	92	sse.			5		10		nnw.	shr's	shr's	r'gh		
S.S. Waesland, N. 40° 28′, W. 70° 30′	30.74	780.8	29	— 1.7		n.			6		4		n.	0	0	sm'h		clear.
S. S. P. Caland, N. 49° 55′, W. 7° 30′			51.4	10.8	85	wnw.			6–9		10					8	w.	snow squalls
S. S. State of Nevada, Glasgow, Scotland†			33	0.6		w.			8		10		sw.	h'vy	h'vy			snowing.
S. S. Saxon, Philadelphia. Pa †	30.81	782.6	20	— 6.7		ene.			1		0							fine.
S. S. Celtic, Liverpool, Eng *†	28.79	732.3	44	6.7		w.			9		4		w.	sh'rs	sh'rs			h'y gale.
S. S. Rialto, N. 42° 11′, W. 49° 12′ †	30.02	762.5	40	4.4		wnw.			5		2		nw.	0	0	mod.	nw.	fair.
Bg. Alcira, N. 11° 05′, W. 71° 32′	29.95	760.7	79	26.1		ene.			4		3		ene.	0	0	mod.	ene.	hazy
S. S. Antonio Lopez, Cadiz, Spain	30.40	772.1	59	15.0	82	sw.			5		8			0	0			squally.
Schr. Adda Doane, N. 28° 40′, W. 76° 30′ †	30.43	772.9				ne.			5		6		ne.	1 h'r	1 h'r	long	ne.	fair.
Bgt. Achsah, Clementsport, N. S†	30.51	774.9	6	—14.4		nw.			5		3		nw.	0	0			clear.
Bk. Bayonnaise, N. 35° 39′, W. 34° 44′			63.5	17.5		sw.			4		5		sw.	0	0	sm'h	sw.	fair.
Bk. Chas Stewart, N. 33° 35′, W. 36° 01′						e.			1		8		se.	0	0	mod.	se.	fair.
Schr. C. R. Flint, N. 31° 38′, W. 58° 38′ †	30.34	770.6	69	20.6		wnw.			3		4		wnw.	0	0	long	ese.	clear.
Schr. Clotilde, N. 29° 29′, W. 79° 09′ †	30.41	772.4	68	20.0		ene.			6		10		ne.	2 h'r	2 h'r	chop	var.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Celestina, N. 13° 13′ W 26° 30′ *†	30.10	764.5				e.			4–5		2		e.	0	0	hv'y	ene.	hazy.
S. Dora, N. 61° 20′, W 14° 09′ *†	28.54	724.9	38.3	3.5		ene.			5		10		nne.	12 h'r	12 h'r	mod.	e.	overcast.
S. E. J. Spicer, N. 45° 55′, W. 10° 07′	29.76	755.9	52	11.1	93	wsw.			7		10		w.	rain	rain	high	wnw.	cloudy.
S. E. B. Sutton, N. 53° 20′, W 5° 10′ *†	28.90	734.0				wsw.			9		5		w.	sq'lls	sq lls	h'vy	wsw.	gale.
Bk. Fred. W Carlon, N. 26° 46′, W. 76° 48′						nne.			6		10		ne.	16 h'r	16 h'r	r'gh	ne.	cloudy.
S. Hedwig, N 37° 44′ E. 6° 06′	30.12	765.1	58.3	14.6	78	wsw.			6		10		wsw.	0	0	4	wsw.	overcast.
Bk. Hattie G. McFarland, Ship Island, Miss.						nne.			4		8		ne.	0	0			cloudy.
S. Henry, N. 36° 31′, W 8° 09′			61.7	16.5		wsw.			4–5	6 c						3	wsw.	fair.
Bk. Idaho, N. 21° 55′, W. 80° 28′ *†	30.26	768.6				ene.			4		0			0	0	sm'h		clear.
Bg. John Wesley, Havana, Cuba, W. I.						ne.			4		8		n.	4 h'r	4 h'r			cloudy.
Schr. John L. Thomas, Hobbies Cays, C. A †	30.02	762.5	76	24.4	91	ese.			3		2		ene.	0	0	mod.	e.	clear.
Bg. L & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.04	763.0				calm			0		1		ene.	½ h'r	½ h'r			fine.
S. C. Laurel, Key West, Fla†	30.30	769.6	68	20.0		ne.			3–4		7		ne.	0	0			fair.
S. S. Madrid, London, Eng †	29.09	738.9	40	4.4	82	w.			6		8		w.	12 h'r	12 h'r			fair.
Schr. Maria Matilda, N. 32° 43′, W. 73° 51′			60	15.6	88	nne.			5		5		nne.	0	0			fair.
Schr. Norena, N. 37° 45′, W. 61° 00′						nnw.			4		3		ene.	12 h'r	12 h'r	mod.	w.	showery.
S. Parker M. Whitmore, N. 13° 19′, W. 36° 00′ *†	30.05	763.3	77	25.0		ene.			6		3		ene.	0	0	high	ene.	fair.
S. S. P. de Satrastegui, N. 42° 59′, W. 29° 00′	30.00	762.0				wnw.			3		9		wsw.	5 h'r	5 h'r	r'gh	wsw.	hazy.
Bg. Rising Sun, N. 15° 14′, W. 58° 10′†	30.02	762.5	76	24.4		se.			2		1		se.	0	0	long	ne.	clear.
Bk. Rosalie, N. 47° 24′, W. 19° 38′*†	29.58	751.3				wnw.			7		7		wnw.	1½ hr	1½ hr	high	wnw.	cloudy.
S. Salisbury, N. 18° 06′, W. 51° 05′	30.19	766.8	76.6	24.8	84	e.			1–2		4 k		e.	0	0	long	ene.	fair.
Bg. Tenerifte, N. 28° 25′, W. 70° 56′	30.69	779.5				n.			4		3		n.	0	0	2		clear.
S. S. City of Alexandria, N. 19° 51′, W. 92° 04′ *†	30.17	766.3	73	22.8		ne.			5							mod	n.	d. clouds.
S. S. Crescent City, N. 37° 55′, W. 73° 40′*†	30.74	780.8	38	3.3		n.			4								n.	fair.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	30.00	762.0	74	23.3	81	n.			1		0					sm'h		clear.
U. S. S. Pinta, Rio de Janiero, Brazil	29.99	761.7	80	26.7	78	nne.			1		5		ne.					fair.
H. M. S. Amethyst, S. 39° 30′, W. 61° 15′	29.79	756.7	73	22.8	85	wnw.			4		0					1	w.	blue sky.
H. M. S. Boadicea, Ascension Island, Africa	29.98	761 5	79	26.1		ese.			3		5	ese.				1	ese.	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	30.09	764.3	75	23.9	68	sse.			4		4	sse.						d. clouds.
S. S. Sirius, Santos, Brazil	29.93	760.2				sse.			1		1		ne.	0	0			clear.
S. S. Teniers, S. 3° 46′, W. 32° 30′	29.99	761.7	80.4	26.9	94	ese.			5		7 kn		ene.	0.92	23.4	long	ese.	d. clouds.
Bg. Daphne, S. 4° 26′, W. 34° 21′*†	29.94	760.5	82	27.8	70	se.			4		1		ese.	0	0	chop	var.	clear.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.10	764.5	76	24.4		w.			3		5		w.	1 h'r	1 h'r			fair.
Bkt. Levanter, S. 29° 28′, W. 45° 25′*	29.94	760.5	83	28.3		s.			3		3		sse.	0	0	mod.	se.	clear.
S. St. David, S. 27° 59′, W 25° 00′ *†	30.25	768.3	78	25.6	91	nnw.			3		6		nnw.	0	0	light	var.	fine.
S. David Stewart, Pernambuco, Brazil †	29.84	757.9	84	28.9		se.			4		2		se.	0	0			
Bk. Godeffroy, S. 30° 40′, W. 25° 15′	30.03	762.7	71.4	21.9	91	wnw.			4		4		var.	0	0	sm'h	var.	fair.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.80	756.9	39.5	4.2	86	calm			0		0			0.10	2.5			clear.
U. S. S. Adams, Sitka, Alaska†	30.05	763.3	23	— 5.0	60	ene.			2		0							clear.
U. S. S. Alert, N. 16° 12′, E. 162° 06′	29.91	759.7	76	24.4	82	n.			6		2		n.			rg'h	nne.	fair.
U. S. S. Essex, Canton, China	30.08	764.0	73	22.8	76	se.			1		0?							overcast.?
U. S. S. Juniata, Shanghai, China	30.17	766.3	44	6.7	84	sse.			1		0			0	0			clear.
U. S. S. Monocacy, Shanghai, China	30.17	766.3	43	6.1	75	sse.			2		0							clear.
U. S. S. Richmond, Shanghai, China	30.18	766.6	46	7.8	84	sse.			3		0			0	0			clear.
H. M. S. Audacious, Hong Kong, China	30.04	763.0	65	18.3	89	e.			3		7	e.						d. clouds.
H. M. S. Cleopatra, off Amoy, China	30.08	764.0	63.5	17.5	83	ne.			2		10					sm'h		overcast.
H. M. S. Champion, Shanghai, China	30.26	768.6	47	8.3	77	sse.			1		0							blue sky.
H. M. S. Magpie, N. 5° 25′, E. 100° 21′	29.89	759 2	81.7	27.6	82	sse.			1		8							misty.
H. P. M S. Tamega, Macao, China	30.1[illegible]	765.2	66.4	19.1	81	se.			3–5		0			0	0			blue sky.
S. S. Newbern, N. 27° 30′, W. 114° 54′ *†	30.00	762.0	61	16.1	55	nnw.			2		0			0	0	light	wnw.	clear.
S. S. Columbia, N. 45° 48′, W. 124° 08′	29.37	746.0	44	6.7	76	ene			2		0					long	w.	clear.
S. S. Oregon, San Francisco, Cal †	29.75	755.6	50	10.0	79	se.			4		10		se.					raining.
S. S. Willamette, Puget Sound, Wash Ter†	29.48	748.8	43	6.1	83	sw.			3		4		wsw.	0.05	1.3			rainy.
S. S. Alameda, Honolulu, Sandwich Ids †	29.92	760.0	69	20.6	75	nne.			2		0			0	0			clear.
S. S. Ancon, Point Vincent, Cal. †	30.06	763.5	57	13.9	69	sse.			6		2?		w.	0	0	mod.	se.	overcast.?
S. S. City of Chester, off Point Arenas, Cal†	29.60	751.8	51	10.6	93	sw.			8		10					high	sw.	rainy.
S. S. Orizaba, N. 37° 12′, W. (119?)° 40′†	29.73	755.1	49	9.4	93	sw.			6				sw.	½ h'r	½ h'r	long	ssw.	squally.
S. S. Queen of the Pacific, San Francisco, Cal			51	10.6	86	s.			3		2?		s.	9 h'r	9 h'r			cloudy.?
S. S. State of California, Portland, Oregon †	29.53	750.0	32	0.0	90	calm			0		10		n.					cloudy.
S. S. City of Rio de Janeiro, N. 22° 06′, W. 171° 40′†	29.85	758.2	73	22.8		s.			2		3?		nne.			long	ne.	cloudy.?
S. S. City of Sydney, N. 33° 04′, W. 135° 22′*†	30.05	763.3	58	14.4	70	nnw.			5		3 k		nw.			h'vy	nw.	clear.
S. S. Granada, Panama, Panama†	29.96	761.0	74	23.3	86	nw.			1		0			0	0	light	nw.	clear.
S. S. San Blas, N. 15° 40′, W. 94° 36′ †	30.03	762.7	68	20.0	90	nnw.			6		0			0	0	r'gh	n.	clear.
S. S. Zealandia, N. 25° 00′, W. 149° 41′			69	20.6	80	ene.			6				ene.	7 h'r	7 h'r	long	ene.	clear.
Bk. Alpheus Marshall, N. 24° 35′, E. 140° 45′*†	30.05	763.3	73	22.8	81	w.			2		2		w.	0	0	sm'h		clear.
S. S. Benalder, N. 29° —′, E. 129° 30′*	30.10	764.5	60	15.6	65	n.			3–4		5		ne.	0	0	mod.	n.	hazy.
S. Carondelet, N. 0° 12′, E. 133° 15′*†	29.87	758.7				wnw.			4		4		wnw.	4 h'r	4 h'r	long	nne.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 10° 41′, W. 98° 56′	30.02	762.5	74	23.3	95	ese.			4		2		e.	0	0	sm'h	se.	clear.
U. S. S. Lackawanna, S. 9° 10′, W. 80° 32′	29.97	761.2	75	23.9	86	se.			3		2		se.			sm'h	se.	clear.
U. S. S. Onward, Callao, Peru*†	30.06	763.5	71	21.7	95	se.			1		10		se.			mod.	w.	misty.
U. S. S. Wachusetts, Callao, Peru*	30.04	763.0	71	21.7	95	se.			1		10		s.			sm'h		overcast.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.89	759.2	65	18.3	84	n.			5		10							raining.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.91	759.7	69	20.6		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.84	757.9	55	12.8	87	calm			0		1							d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	28.60	726.4	51	10.6	93	calm			0		9	calm						d. clouds.
S. S. Australia, Sydney, N. S. W.	29.98	761.5	58	14.4		se.			2		6		e.	0	0			cloudy.
S. S. George S Homer, S. 52° 02′ W. 110° 00′ *†	29.36	745.7				sw.			6		5		ssw.	4 h'r	4 h'r	long	sw.	squally.
S. Ismir, S. 21° 51′, W. 80° 51′*	30.36	771.1				sse.			3		9		sse.	0	0	long	ssw.	overcast.
S. St. Francis, S. 17° 45′, W. 96° 15′*†	30.20	767.1	72	22.2	72	se.			3		1		se.	0	0	mod.	s.	clear.
S. Grecian, S. 48° 33′, W. 114° 39′ †	29.54	750.3	50	10.0	86	ssw.			7		5		ssw.	sqll's	sqll's	r'gh	var.	squally.
S. Henry Failing, S. 51° 06′, W. 112° 58′ *†	29.85	758.2	48	8.9	100	sw.			0		5		sw.	3 h'r	3 h'r	long	wsw.	fair.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	29.81	757.2	61	16.1	88	n.			1		8							showery.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, S. 15° 15′, E. 43° 12′	29.75	755.6	83	28.3	87	nw.	24	10.7			5		nw.	0.85	21.6	r'gh	nw.	fair.
U. S. S. Pensacola, Fenerife, Madagascar*	29.71	754.6	82	27.8	79	s.			2		10		s.	0.03	0.8		ene.	cloudy.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	30.02	762.5	82	27.8	83	w.			2		6					sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	30.01	762.2	75	23.9	86	ne.			4		4	calm						d. clouds.
H. M. S. Orontes, N. 11° 56′, E. 51° 15′	30.09	764.3	74	23.3	100	ne.			2		5	ne.				1	ne.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.77	756.1	81	27.2	87	sse.			2									d. clouds.
S. S. Galatia, Calcutta, India†	30.00	762.0	78	25.6	91	nnw.			1		0			0	0			clear.
S. S. Port Phillip, S. 23° 14′, E. 96° 23′*	29.98	761.5	77	25.0		se.			4–5							mod.		cloudy.
S. S. Radnorshire, N. 12° 42′, E. 45° 44′						ssw.			3		0			0	0	mod.	ene.	clear.
S. S. Lepanto, N. 16° 24′, E. 41° 04′	29.99	761.7	80	26.7		nnw.			1		3		nw.	0	0	mod.	s.	hazy.

International Chart I. January 27, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 28, 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.32	770.0	64.0	17.8	82	e.			1		0			0	0	clear	Roziere.
Algiers			30.21	767.4	59.7	15.4	79	wsw.			4		2			0	0	fair	Aubert.
La Calle			30.14	765.6	64.0	17.8	72	nnw.			3		4			0	e	cloudy	Fonfrède.
Tunis			30.17	766.3	59.0	15.0	85	nw.			4		4			0.028	0.7	cloudy	Delord.
Tebessa					51.8	11.0	90	se.			1		2			inap.	inap.	fair	Hans.
Geriville					57.2	14.0	27	nnw.			4		0			0	0	clear	Forfert.
Laghouat			30.35	770.9	57.6	14.2	87	calm			0		0			0	0	clear	Abraham.
Biskra			30.26	768.5	53.6	12.0	67	nw.			4		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.26	768.6	58.9	14.9	76	sse.	10	4.5			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.94	760.5	30.13	765.3	53	11.7	86	s.			2		7		s.	0	0	cloudy	Com. I. Short, R.N.
Melbourne, Victoria	30.10	764.5	30.19	766.8	57.8	14.3	67	s.	9	4.0			9			0.15	3.8	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.17	741.0	29.73	755.2	41.5	5.3	59	sw.			2		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.69	728.8	29.48	748.7	42.8	6.0	56	ssw.	5.6	2.5			1			0.004	0.1		Dr. Wierzbiski
Eperies	28.66	728.0	29.56	750.9	35.6	2.0	93	calm			0		10			0.213	5.4		Julius Mikolik.
Gratz	28.37	720.6	29.64	752.9	38.3	3.5	71	e.			1		7			0	0		Andreas Rospini.
Hermannstadt	28.15	715.0	29.60	751.8	38.5	3.6	87	se.			2		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.27	718.0	29.65	753.0	34.5	1.4	89	wsw.			2		10			0.083	2.1		The Staff.
Lemberg	28.54	724.8	29.55	750.5	36.5	2.5	89	se.			1		10			0.008	0.2		Dr. T. Stanecki.
Pola	29.56	750.8	29.67	753.6	47.3	8.5	78	se.			2		10			0.205	5.2	raining	I. R. Hydrographic Office.
Szathmar	29.09	738.9	29.56	750.9	36.5	2.5	89	sw.			2		5			0.031	0.8		Joseph Midlinszky, S. J
Szegedin	29.35	745.5	29.63	752.7	44.1	6.7	72	sw.			1		5			0	0		Karl Stancel.
Trieste	29.61	752.0	29.71	754.5	44.2	6.8	77	calm			0		5			0	0		Royal Academy.
Vienna	29.57	751.1	29.50	749.3	45.9	7.7	42	s.			2		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.00	711.2	29.41	746.9	36.1	2.3	98	w.			3		2			0.472	12.0		
Brussels	29.45	748.0	29.65	753.1	41.2	5.1	68	w.			5		5		wnw.	0.169	4.3		
Furnes	29.59	751.5	29.61	752.0	43.9	6.6	65	nw.			2		2			0.047	1.2		
Maeseyck	29.43	747.4	29.55	750.6	41.4	5.2	72	w.			2		7			0.118	3.0		
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			29.52	749.8	41.8	5.4	76	w.	50	22.4			7					d. clouds	John Hartnup.
Bolton, Sharples	28.96	735.6	29.50	749.3	37.6	3.1	74	w.	30	13.4			10					squally	Thomas Mackereth.
Bradford, Yorkshire	29.06	738.1	29.46	748.3	38.6	3.7	83	nw.			3		10			0.11	2.8	raining	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.07	763.8	30.10	764.5	83	28.3	64	ne.			1		3					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	29.53	750.0	29.65	753.1	40.0	4.4	69	w.			3.0		2					blue sky	John McLaren.
Chatham, School M. E.	29.52	749.8	29.69	754.1	43.1	6.2	61	w.			2		3			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.65	753.1	29.88	758.9	45.1	7.3	70	w.			4		6			blank	blank	d. clouds	The Staff.
Fort Napier, Natal	27.75	704.8	30.06	763.5	76.2	24.6	50	ne.			1		4					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	87	30.6	72	s.			4		1					d clouds	J. W. Smith.
Galway, Queen's College	29.55	750.6	29.59	751.6	37	2.8	90	sw.			1		5			0.18	4.6	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.43	772.9	30.49	774.4	60.9	16.1	85	nw.			4		4					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.50	749.3	29.68	753.9	42.3	5.7	70	w.					0					blue sky	The Staff.
Guernsey	29.65	753.1	29.95	760.7	47.0	8.3	72	wnw.			5		10					showery	A. Collenette, F.R.M.S.
Kew, Observatory	29.68	753.9	29.72	754.9	42.5	5.8	58	w.	25	11.2			1					blue sky	The Staff.
Leicester, Museum	29.33	745.0	29.59	751.6	42.0	5.6	62	w.			2							blue sky	J. C. Smith.
Malta, Mediterranean	30.02	762.5	30.10	764.5	60.8	16.0	80	nw.			2		6			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.26	768.6	30.31	769.9	71.0	21.7	80	ne.			3		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.46	748.3	29.69	754.1	41.2	5.1	72	wsw.			6		0					blue sky	The Staff.
Plymouth	29.76	755.9	29.84	757.9	44.2	6.8	80	wnw.			3		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.11	739.4	29.22	742.2	35.5	1.9	72						5					snowy	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.66	753.4	29.73	755.1	52.6	11.4	68	s.			1		8					d. clouds	W. H. Lyne.
Sheffield	29.24	742.7	29.52	749.8	38.8	3.8	95	w.			5		10			0.14	3.6	snow & hail.	W. F. Cooper.
Silloth Rectory	29.32	744.7	29.35	745.5	39.7	4.3	87	w.			3		7			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.50	749.3	39.1	3.9	79	w.	31	13.9			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					42.2	5.7	70	nw.			2–3		3					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.74	755.4	29.76	755.9	41.2	6.8	64	wsw.	15	6.7			10			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.64	752.8	30.03	762.7	58.6	14.8	78	w.	19.9	8.9		0	8 k		w.	0	0	hazy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.					—7.0	—21.7		nw.	25	11.2		3 c	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.57	776.5	30.62	777.7	—12	—24.4	90	nw.	4	1.8		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.63	778.0	30.71	780.0	—24	—31.1	95	w.	1	0.4		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.38	771.6	30.59	777.0	—4.7	—20.4	100	ne.			4		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.65	778.5	30.71	780.0	—15.0	—26.1		w.			2	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.82	782.8	30.84	783.3	—14	—25.6	78	se.	3	1.3		0	2 s		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.14	740.1	30.02	762.5	20	—6.7	87	w.	4	1.8			10 s			0	0	hazy	James Stewart.
Fredericton, N. B.	30.72	780.3	30.80	782.3	—18.9	—28.3	100	w.	5.0	2.2		0	0			0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	30.69	779.5	30.76	781.3	1	—17.2	87	n.	5	2.2		0	8 ks		n.	0	0	fair	J. Chipman Seeley
Granton, Ontario	29.15	740.4	30.34	770.6	20.3	—6.5	96	se.	9	4.0			10 n			0.200	5.1	snowing	Jas. Grant.
Halifax, N. S*	30.54	775.7	30.69	779.5	—6	—21.1	95	w.	10	4.5		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.90	759.4	30.34	770.0	17.2	—8.2	93	ne.			1		10 n					snowing	Geo. Dickson, B. A.
Kingston, Ontario*	30.17	766.3	30.55	776.0	7	—13.9	76	nw.	12	5.4			10 k		sw.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.37	771.4	30.41	772.4	—5.0	—20.0	81	nw.	5	2.2		6 k	0	nw.		0	0	d. clouds	C. H. Rigby.
London, Ontario	29.32	744.7	30.29	769.4	20.8	—6.2	93	e.			1		10 n					snowing	E. B. Reed.
Medicine Hat, N. W. T.	27.82	706.6	30.40	772.1	—6	—21.1	91	n.	8	3.6			10 n			0.01	0.3	cloudy	John Ewart.
Minnedosa, N. W. T.	27.99	710.9	30.14	765.5	—2	—18.9	100	nw.	18	8.0		0	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	30.49	774.4	30.74	780.8	—15	—26.1	100	nw.	9	4.0			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.38	771.6	30.64	778.2	0.0	—17.8	70	nne.					10 s			0.05	1.3	overcast	A. McCill, M. A.
Parry Sound, Ontario*	29.65	753.1	30.41	772.4	14	—10.0	83	e.	13	5.8			10 n		e.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.66	753.4	30.47	773.9	11.7	—11.3	71	ne.			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.37	746.0	30.11	764.8	25	—3.9	92	calm	0	0			10 n			0.21	5.3	light snow	W. P. Cooke.
Port Dover, Ontario	29.58	751.3	30.33	770.4	23	—5.0	100	e.	7	3.1			10 n			0.10	2.5	light snow	H. Morgan.
Port Stanley, Ontario	29.61	752.1	30.30	769.6	22	—5.6	96	e.	20	8.9			10 n		e.	0.05	1.3	light snow	M. Payne.
Qu Appelle, N. W. T	27.79	705.9	30.35	770.9	—5	—20.6		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	30.39	771.9	30.82	782.8	—16	—26.7	44	calm	0	0		0	0			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.05	763.3	30.57	776.5	3	—16.1	87	se.	12	5.4			10 n			inap.	inap.	light snow	W. H. McIntyre.
St. Andrews, N. B.	30.69	779.5	30.74	780.8	—8	—22.2	100	nw; w	5	2.2		0	0			0	0	clear	
St. John, N. B	30.58	776.7	30.74	780.8	—7.5	—21.9	63					0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F.																			J. Higgins.
St. Pierre, N. F.			30.12	765.0	—2.2	—19.0		nw.			4								The Commandant.
Saugeen, Ontario*	29.52	749.8	30.29	769.4	19	—7.2	96	e.	19	8.5			10 s			0	0	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
CANADIAN.—Continued.																			
Stratford, Ontario	28.90	734.0	30.28	769.1	19.1	— 7.2	97	e.	2	0.9			10					snowing	W. Mc Bride, M. A.
Sydney, C. B*	30.42	772.7	30.49	774.4	— 9	—22.8	100	nw.	12	5.4		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.98	761.5	30.39	771.9	19	— 7.2	96	ne.	9	4.0			10 n		se.	0.02	0.5	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.21	741.9	30.36	771.1	19.2	— 7.1	92	ne.	10	4.5			10 n			inap.	inap.	snowing	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.62	777.7	30.69	779.5	8	—13.3	83	ne.	4	1.8			10 k		n.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	30.09	764.3	30.12	765.0	74.5	23.6	93	ne.				0	4 k			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.92	760.0			84.0	28.6	42	ssw.				0	1 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			90	32.2	36									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.89	759.2	29.97	761.2	65.3	18.5	85	n.			1	10	0					cloudy	Samuel Redolez.
Iquique	29.89	759.2	29.92	759.9	72.5	22.5	80	sw.			2	4 c	0					fair	Rafael Moreno.
Niebla	29.54	750.2	29.64	752.9	68.7	20.4	71	e.			2	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.81	757.1	29.89	759.3	73.4	23.0	90	ne.			1	0	4 n		ne.			fair	Manuel Tobar.
Punta Corona	29.88	759.0	30.07	763.7				calm			0	0	0			0	0	clear	Francisco Alvarado.
Valparaiso	29.76	756.0	29.90	759.5	61.7	16.5	92	n.				10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.17	766.2	30.19	766.8	45.5	7.5	85	nne.	9.4	4.2			10			0.008	0.2		M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	28.98	736.2	29.03	737.4	35.8	2.1	93	sw.	25	11			10					rain & snow	Oversergent Fischer.
Fanöe	29.07	738.4	29.09	738.9	39.9	4.4	76	w.			6		2						Overloerer Lauridsen.
Godthaab, Greenland	29.76	755.8	29.80	756.9	— 0.9	—18.3	83	nnw.			4		5						S. Kleinschmidt.
Stykkisholm, Iceland	29.47	748.5	29.51	749.6	20.5	— 6.4	82	ne.			6		8						A. O. Thorlacius.
Thorshavn	29.13	739.9	29.15	740.5	27.7	— 2.4	81	wnw.	16	7			4						Overloerer Bergh.
Vestervig	28.74	730.1	28.84	732.5	39.7	4.3	93	w.			6		0						Loerer Oesterrol.
EGYPTIAN.																			
Cairo	29.93	760.1			63.0	17.2		ne.	1.6	0.7		0	8 k			0	0		Albert Ismatun.
FRENCH.																			
Agen, Normal School	29.58	751.3	30.24	768.1	50.7	10.4	95	w.			2		n		nw.	0.047	1.2		M. Labroue, Director.
Alençon, Normal School	29.49	749.1	30.04	763.1	42.4	5.8	91	sw.			8		10 n		ne.	0.252	6.4	covered	M. Nicot, Director.
Arras, Normal School			29.65	753.0	44.2	6.8	69	sw.			2		0			0.228	5.8	clear	M. Ungerer, Director.
Avignon, Normal School	29.97	761.1	30.04	763.1	55.4	13	35	n.			1		5		nw.	0.016	0.4	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.34	745.3	29.91	759.7	43.2	6.2	65	nw.			4		5		nw.	0.512	13.0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.56	750.7	29.83	757.6	43.9	6.6	71	wsw.			3		2		wnw.	0.492	12.5	slightly cl'dy	M. Frère Eugène Marlé.
Besançon, Normal School	29.00	736.7	29.91	759.7	44.6	7	78	sw.			4		cn		e.	0.28	7.		M. Gobin, Director.
Bordeaux, Observatory	29.91	759.6	30.17	766.3	52.3	11.3	73	wsw.			1		10			0.390	9.9	covered	M. Rayet, Director.
Bourges, Normal School	29.43	747.4	29.98	761.6	46.4	8	63	w.			1		k		w.	0.236	6.0		M. Sauvageot, Director.
Brest, Naval Observatory	29.81	757.2	30.06	763.4	48.6	9.2	84	wnw.			2		10		wnw.	0.433	11.0	raining	M. de Kermarée, Dir.
Caen, Normal School	29.76	755.9	29.91	759.8	45.3	7.4	97	w.			2		0			0.063	1.6	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.51	749.5	29.84	757.8	45.1	7.3	83	ssw.			4		2	nw.	w.	0.161	4.1	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.22	742.2	29.74	755.4	42.8	6	70	wnw.			2		kn			0.34	10.		M. Noël, Director.
Clermont-Ferrand Obs'y	28.67	728.2	30.05	763.3	45.0	7.2	53	w.			4		8			0.157	4.0		M. Alluard, Director.
Cluny, Normal School	29.16	740.6	29.99	761.7	46.0	7.8	69	nw.			2		8		nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.95	735.2	29.82	757.3	40.1	4.5	72	w.			10		2 k	w.	w.	0.035	0.9	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.37	695.1	29.95	760.6	41.0	5.0	61	n.			6		7			0	0		M. Jarach, Director.
Grésque, du Rhone	28.87	733.2	30.00	762.1	49.5	9.7	28	nw.			8		5		nw.	0.122	3.1		M. Kina, Director.
Grenoble, Normal School	29.28	743.8	30.04	762.9	46.8	8.2	61	nw.			4		n			0.528	13.4		M. Ablard, Director.
Guéret, Normal School	28.42	721.9	30.04	763.0	41.0	5.	84	se.			4		n		ne.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.64	752.9	30.21	767.4	52.0	11.1	66	sw.			1		10			0.181	4.6	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.93	760.3	30.04	762.9	51.8	11.0	59	w.			6		8		w.	0.134	3.4	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.97	735.8	30.04	763.1	46.9	8.3	53	wnw.			4		8 n		nw.	0.079	2.0	very cloudy	M. André, Director.
Mans, Normal School	29.68	753.8	29.99	761.8	44.4	6.9		nnw.			4		kn		nnw.	0.295	7.5		M. Richard, Director.
Marseille, Observatory	29.71	754.5	29.98	761.4	55.0	12.8	34	nw.			6–8		4		nw.	0.094	2.4		M. Stephan, Director.
Montlouis	24.85	631.3	29.70	754.3	42.8	6.0	62	w.	20.6	9.2			8	nw.		0.315	8.0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.2	30.04	763.0	55.4	13	57	nw.			6		5		sse.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.00	736.7	29.80	757.0	40.6	4.8	66	wsw.			1	ck	n		sw.	0.276	7.0		M. Hasse, Director.
Nantes, Observatory	29.91	759.7	30.07	763.8	49.3	9.6	76	w.			1–2		8 k; kn		wnw.	0.224	5.7		M. Larocque, Director.
Perpignan, Observatory	29.99	761.7	30.10	764.6	57.9	14.4	51	nw.	37.4	16.7			9		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.24	539.5			23.7	— 4.6		nw.			6–8				nw.	0.787	20.0	foggy	M. Vaussenat, Director.
Privas, Normal School	28.97	735.7	30.05	763.2	48.2	9	46	s.			1		n		w.	0.122	3.1		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.00	635.0			26.2	— 3.2	100	wnw.			6		10			0.634	16.1		M. Alluard.
Rochefort, Naval Obs'y	30.06	763.4	30.09	764.2	50.7	10.4	82	sw.			1		10		sw.	0.63	16.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.86	758.4	30.08	763.9	49.3	9.6	66	w.			1		5			0.189	4.8	cloudy	M. Brotier, Director.
Rodez, Normal School	27.70	703.5	30.30	769.5	40.5	4.7		nw.			1		10			0.130	3.3	raining	M. Seger, Director.
Rouen, Normal School	29.80	756.9	29.85	758.1	46.8	8.2	52	w.			4		5	w.		0.43	11.	cloudy	M. Mouillot, Dir.
St. Lô, Normal School			29.77	756.2	47.5	8.6	63	w.			2		n	w.	w.	0.319	8.1		M. Delaplanche, Dir.
Saint Maur, Observatory	29.71	754.7	29.88	758.9	46.2	7.9	58	w.			4			nw.	w.	0.028	0.7		M. Renou, Director.
Toulouse, Observatory	29.49	749.0	30.22	767.5	50.9	10.5	77	w.			6		10	nw.		0.209	5.3	covered	M. Baillaud, Director.
Tours	29.82	757.5	30.00	762.0	47.5	8.6	65	w.			2		3	wnw.	w.	0.146	3.7	cloudy	M. de Tastes.
Versailles, Observatory	29.39	746.5	29.88	759.0	44.2	6.8	62	w.			4		5			0.055	1.4	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.12	765.0	30.27	768.8	53.4	11.9	90	sw.	11.9	5.3			10 kn		wsw.	0.209	5.3		M. Cartier, Director.
GERMAN.																			
Ansbach	28.18	715.7	29.67	753.5	35.6	2.0	68	w.			6		2 k	w.		0.197	5.0		Prof. Juedt.
Bamberg	28.79	731.2	29.62	752.3	37.0	2.8	73	nw.			4		7 k		w.	0.197	5.0		Prof. Dr. Hoh.
Berlin	29.18	741.2	29.33	744.9	37.0	2.8	86	w.			1		7			0.063	1.6		Meteorological Institute
Breslau	28.87	733.4	29.39	746.6	37.6	3.1	76	sw.			4		10			0.063	1.6	snowing	Royal University Obs'y
Carlsruhe	29.29	744.0	29.76	755.9	37.8	3.2	83	nw.			5		10	sw.		0.114	2.9	snow & sleet	Albert Senz.
Cassel	28.77	730.7	29.48	748.8	37.0	2.8	96	sw.			6		7	sw.		0.157	4.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.24	742.7	29.61	752.1	41.9	5.5	67	sw.			3		7			0.343	8.7		Physical Society.
Friedrichshafen	28.37	720.6	29.82	757.4	39.9	4.4	65	w.			7		5	w.		0.311	7.9		Wilhelm, Chief Tel.
Hamburg	29.16	740.6	29.25	742.9	35.1	1.7	96	w.			5		8			0.142	3.6		E. Preller.
Kiel	29.12	739.6	29.13	740.0	36.9	2.7	87	wsw.			3		10			0.126	3.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.01	736.9	29.44	747.8	35.8	2.1	87	wnw.			3		8	wnw.		0	0		H. Leppig, Asst.
Magdeburg	29.15	740.5	29.34	745.3	40.1	4.5	68	w.			4		3			0.055	1.4		Weather Observatory.
Memel	29.26	743.2	29.30	744.3	36.7	2.6	85	sw.			4		10 s						Issermann.
Munich	27.85	707.3	29.69	754.0	37.6	3.1	67	w.			6		8	w.		0.035	0.9		Central Station.
Neufahrwasser	29.25	742.9	29.26	743.3	35.1	1.7	94	sw.			3		10			0.004	0.1	rain & snow	A. Lothes.
Neustadt, Palatinate	29.12	739.6	29.64	752.8	41.0	5.0	57	w.			5		5	w.		0.382	9.7	raining	Dicknether.
Stuttgart	28.76	730.4	29.67	753.5	41.9	5.5	50	w.			5		8	w.		0.067	1.7		Prof. Dr. Schoder.
Wustrow	29.12	739.7	29.15	740.3	36.3	2.4	85	sw.			4		5 s			0.138	3.5		Profs. Brandes & Reimer
GREEK.																			
Athens	29.39	746.4	29.78	756.3	53.4	11.9		s.			0.5	0	6 k			0.031	0.8		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.96	761.0	30.05	763.2	67.9	19.9	42	sse.	15.0	6.7			0?					drizzling?	
Deesa	29.52	749.7	30.01	762.3	70.5	21.4	23	w.	3.0	1.3			0			0	0	blue sky	
Bombay	29.96	761.0	30.00	762.0	73.5	23.1	64	nw.	9.0	4.0			0			0	0	blue sky	
Poona, Yarrowda	28.08	713.3	29.94	760.5	78.8	26.0	49	wnw.	10.0	4.5			0			0	0	blue sky	
Belgaum	27.40	695.9	29.94	760.4	77.0	25.0	43	wsw.	5.0	2.2			0			0	0	blue sky	
Lahore	29.28	743.7	30.06	763.5	59.2	15.1	51	nw	2.0	0.9			4			0	0	d. clouds	
Roorkee	29.03	737.4	29.96	760.9	68.7	20.4	43	w.	3.0	1.3			0			0	0	blue sky	
Agra	29.38	746.1	29.95	760.7	74.3	23.5	40	calm	0	0			0			0	0	blue sky	
Nagpur	28.91	734.2	29.96	761.0	78.2	25.7	41	calm	1.0	0.4			2	w.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.60	726.5	29.98	761.5	73.8	23.2	47	calm	1.6	0.7			9			0	0	gloomy	
Lucknow	29.58	751.4	29.97	761.2	74.2	23.4	50	calm	0	0			0			0	0	blue sky	
Allahabad	29.62	752.5	29.94	760.6	72.8	22.7	55	calm	0	0			4	sw.		0	0	d. clouds	
Patna	29.77	756.1	29.96	761.0	71.3	21.8	53	nw.	1.5	0.7			4	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.92	709.3	29.98	761.6	67.6	19.8	37	n.	4.0	1.8			7	n.		0	0	d. clouds	
Cuttack	29.87	758.7	29.95	760.8	76.5	24.7	55	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.93	760.2	29.95	760.7	72.5	22.5	58	sw.	3.0	1.3			0			0	0	blue sky	
Dhubri	29.84	757.8	29.96	761.0	68.5	20.3	56	calm	0	0			0			0	0	blue sky	
Chittagong	29.90	759.6	30.00	761.9	68.9	20.5	72	w.	2.6	1.2			0			0	0		
Sibsagar	29.64	752.9	30.00	761.9	61.9	16.6	89	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.52	724.5	30.01	762.2	67.2	19.6	37	wsw.	1.3	0.6			0			0	0	blue sky	
Zanzibar	29.84	758.0	29.87	758.6	83.5	28.6	60	ne.	11.4	5.1			1			0	0	squally	
Bellary	28.46	722.9			82.2	27.9	33	e.	2	0.9		0	0			0	0	blue sky	
Trichinopoly	29.72	754.9			84.6	29.2	42	ne.	0.3	0.1		2	2			0	0	d. clouds	
ITALIAN.																			
Udine	29.27	743.4	29.69	754.2	39.4	4.1	84	calm	0	0			9			0.390	9.9		Prof. Giovanni Olodig.
Milan	29.26	743.1	29.80	756.8	35.6	2.0	67	nw.	3.1	1.4			2	n.		0.020	0.5		Prof. G.V. Schiapparelli
Padua	29.57	751.1	29.69	754.0	36.5	2.5	69	nnw.	3.8	1.7			0			0.098	2.5		Prof. Dott. Lorenzoni.
Moncalieri	28.86	733.1	29.80	757.0	40.6	4.8	73	sse.	1.8	0.8			0			0	0		Prof. F. F. Denza.
Genoa	29.51	749.6	29.71	754.6	50.0	10.0	39	ne.	8.1	3.6			0			0.004	0.1		Prof. G. M. Garibaldi.
Pesaro	29.61	752.0	29.66	753.3	45.9	7.7	79	w.	9.4	4.2			10			0.232	5.9		Prof. Luigi Guidi.
Florence	29.40	746.7	29.66	753.4	44.6	7.0	94	ene.			2		10			0.476	12.1		Prof. Costantino Pittel.
Leghorn	29.54	750.2	29.62	752.4	52.7	11.5	74	sw.	13.0	5.8			4			0.165	4.2		Prof. P. Monte.
Rome	29.55	750.6	29.73	755.1	48.0	8.9	82	ene.	2.5	1.1			10	e.		0.217	5.5		Prof. P. Tacchini.
Lecce	29.53	750.0	29.75	755.6	55.4	13.0	66	nnw.	7.4	3.3			5	nw.		0.106	2.7		Prof. C. de Giorgi.
Cosenza	28.94	735.0	29.86	758.4	47.1	8.4	73	sse.	2.5	1.1			10	se		1.083	27.5		Prof. D. Conti.
Cagliari	29.78	756.4	29.98	761.4	58.8	14.9	54	nw.			4		6	nw.		0.079	2.0		Prof. A. Pacinotti.
Palermo	29.64	752.9	29.90	759.4	61.5	16.4	47	w.	20.6	9.2			9	nw.		0.063	1.6		Prof. G. Cacciatore
Syracuse	29.81	757.2	29.86	758.4	60.8	16.0	50	w.	17.4	7.8			6	w.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.26	743.1	29.82	757.5	52.5	11.4	76	sw.	7.4	3.3			10			0.425	10.8		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.86	758.4	29.89	759.3	30.7	— 0.7	77	calm			0		10 k			0.083	2.1	cloudy	H. Hattori.
Awomori	29.84	757.9	29.88	758.9	22.5	— 5.3	70	s.	2.2	1.0		0	4s;ks			0.232	5.9	fair	K. Ogawa.
Hakodate	29.88	758.9	29.89	759.2	17.2	— 8.2	94	n.	4.2	1.9		0	2 s			0	0	clear	Y. Souma.
Hamamatsu	29.84	757.9	29.94	760.4	42.7	5.9	74	wsw.			2	2 cs	0	w.		0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	29.96	761.0	29.98	761.4	45.0	7.2	88	n.	8.6	3.8			10 s		sw.	0	0	cloudy	Y. Okamoto.
Kagoshima	30.03	762.7	30.04	763.0	49.4	9.7	90	calm			0	0	1 s			0.039	1.0	clear	
Kanazawa	29.82	757.5	29.93	760.2	41.0	5.0	91	se.	10.2	4.6			10 n			0.865	22.0	raining	S. Endo.
Kioto	29.80	757.0	29.98	761.4	36.9	2.7	92	nnw.	1.4	0.6		0	8 s			0.010	0.2	cloudy	M. Tojima.
Kochi	29.97	761.2	29.99	761.7	43.3	6.3	84	n.	1.9	0.8			9 s		sw.	0	0	overcast	K. Kusunose.
Miasaka	30.00	761.9	30.02	762.6	52.1	11.2	74	wsw.			1		8 s		w.	0	0	cloudy	K. Masusaki.
Miyako	29.78	756.5	29.89	759.3	36.2	2.3	61	sw.	3.3	1.4			10 s			0.110	2.8	cloudy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.81	757.2	30.01	762.2	48.7	9.3	86	calm	0	0			10 s			0.360	9.1		
Nemuro	29.78	756.4	29.83	757.7	23.0	— 5.0	63	calm	0	0		0	4 s			0	0	fair	A Shibuya.
Niigata	29.80	756.9	29.83	757.7	38.1	3.4	90	se.	8.6	3.8			10 n			0.570	14.5	light rain	Satoo & Tomikawa.
Nobiru	29.85	758.1	29.86	758.5	34.2	1.2	78	nnw.	0.8	0.4			10 ks			0.005	0.1	covered	Yeelino & Midzushina.
Numadzu	29.82	757.4	20.85	758.2	51.9	11.1	62	sw.			6	4 c	0			0	0	fair	T. Ohgi.
Osaka	29.99	761.7	30.00	762.1	38.2	3.4	43	ene.	2.8	1.2		0	3 s			0.060	1.5	clear	H. Omura.
Sakai	29.97	761.2	29.98	761.4	41.8	5.4	88	wsw.			2		10 n		wsw.	0.102	2.6	raining	Yamawchi & Sakamoto.
Sapporo	29.78	756.5	29.85	758.3	15.0	— 9.4	71	w	1.1	0.4		0	5 s			0.020	0.5	fair	S. Kimura.
Shimonoseki	29.87	758.6	30.01	762.3	42.6	5.9	89	ene.			1		10 ks			0.122	3.1	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.78	756.5	29.86	758.4	42.2	5.7	81	sse.	4.0	1.8		0	0			0	0	clear	The Staff.
Wakayama	29.92	760.0	29.98	761.4	43.5	6.4	77	ne.	1.6	0.7		0	0			0.010	0.3	clear	K. Nakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.57	751.1	29.76	755.9	80.3	26.8	70	ne.	10.0	4.5		2 cs	5 kn		s:sw	0.15	3.8	fair	The Staff.
MEXICAN.																			
Leon	24.45	621.0	30.37	771.4	41.7	5.4	77	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.86	758.5	30.13	765.2	66.0	18.9	76	nw.	5.3	2.3		1 cs	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.60	751.9	29.60	751.9	43.2	6.2		w.			6					0.012	0.3		
Groningen	29.32	744.6	29.37	746.0	39.6	4.2		nw.								0.016	0.4		
Helder	29.38	746.3	29.38	746.3	41.0	5.0		w.			5					0	0		
Hellevoetsluis	29.50	749.4	29.50	749.4	46.0	7.8	81	w.			5					0	0		
Utrecht	29.47	748.4	29.52	749.8	42.3	5.7	70	wsw.			5		4			0.157	4.0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	759.0			78.1	25.6	87	nw.	0	0			6			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	28.54	724.8	28.60	726.4	38.1	3.4	87	nnw.	27	12			10			0	0		
Brono	28.32	719.2	28.35	720.2	36.3	2.4	64	se.			2		9			0	0		
Christiania	28.34	719.8	28.48	723.5	38.1	3.4	83	s.	13	6			9			0.067	1.7		
Gjesvær	28.81	731.8	28.84	732.4	27.3	— 2.6		ne.			6		10			0.756	19.2		
Lodingen	28.48	723.5	28.53	724.7	31.8	— 0.1	60	ne.			4		2			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.41	772.3	30.50	774.6	61.9	16.6	64	calm	1.8	0.8			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.14	765.5	30.48	774.2	57.7	14.3	93	wsw.	11.2	5.0			9			0.130	3.3		The Staff.
Ponta Delgada, Azores	30.15	765.9	30.22	767.7	61.9	16.6	77	sw.	20.6	9.2			3			0.079	2.0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.16	764.4	30.13	765.4	69.8	21.0	78	ene.			4		4			0	0		
San Salvador, Congo	28.10	713.8	29.92	760.0	81.3	27.4	66	nw.			1		6			0	0		
Serra da Estrella	25.58	649.8	30.41	772.3	45.1	7.3	100	w.			6		10			10.787	274.0	rain & fog	
RUSSIAN.																			
Akmolinski	29.35	745.4	30.58	776.8	— 4.9	—20.5	93	sse.	4	2		1 cs	0			0	0		Major K. Lasarew.
Archangel	29.33	744.9	29.35	745.4	33.6	0.9	90	s.	18	8			10			0	0		Capt. Sseliwerstow
Ashurada	30.37	771.4	30.28	769.0	48.2	9.0	76	e.	4	2		0	1 n			0.028	0.7		
Astrakhan	30.31	769.8	30.23	767.8	30.2	— 1.0	84	s.	2	1			10			0	0	h'vy clouds	Capt. Wisganow.
Baku	30.24	768.0	30.19	766.8	42.8	6.0	88	s.	18	8		0	8 ks			0	0		
Barnaul	29.88	758.9	30.43	772.9	10.9	—11.7	70	sw.	13	6			10			0.004	0.1		Meteorological Office.
Bielosersk	29.16	740.7	29.65	753.0	27.7	— 2.4	88	s.	11	5			10 s			0.004	0.1		
Dorpat	29.07	738.4	29.32	744.6	30.0	2.2	84	s.	7	3			9 ks			0.004	0.1		Observatory.
Ekaterinburg	29.24	742.8	30.28	769.2	19.2	— 7.1	40	calm	0	0		0	0			0	0		Meteorological Obs'y.
Elisawetgrad	29.23	742.4	29.69	754.2	33.4	0.8	98	wsw.	2	1			10			inap.	inap.		
Kasan	29.89	759.1	30.19	766.8	— 1.3	—18.5	93	s.	2	1			1			0	0		Observatory.
Kem	29.17	741.0	29.22	742.3	32.2	0.1	76	s.	31	14			10 ks			0	0		
Kertch	29.86	756.8	29.82	757.4	45.0	7.2	94	calm	0	0			10 n			0.047	1.2		Lagorio & Sastyres.
Kieff	28.94	735.0	29.59	751.6	32.4	0.2	92	ssw.	7	3			10 n			blank	blank		Observatory.
Koslov	29.34	745.3	29.87	758.7	26.8	— 2.9	90	s.	16	7			10 s			0.185	4.7	snowing	
Lgov	29.10	739.1	29.70	754.4	33.3	0.7	96	sse.	20	9			10			0.012	0.3	light fog	R. I. Ssaweljew, Engin'r.
Libau	29.20	741.7	29.22	742.3	35.8	2.1	91	s.	16	7			10			0.098	2.5		L. Quass.
Lugan	29.65	753.1	29.86	758.5	30.0	2.2	82	sse.	9	4			10			0.098	2.5		Meteorological Obs'y
Moscow	29.24	742.6	29.74	755.3	27.0	— 2.8	90	sse.	7	3			10 n			0.051	1.3	light snow	Meteorological Obs'y
Nertchinsk	27.96	710.2	30.61	777.4	—13.7	—25.4	82	calm	0	0			0			0	0		

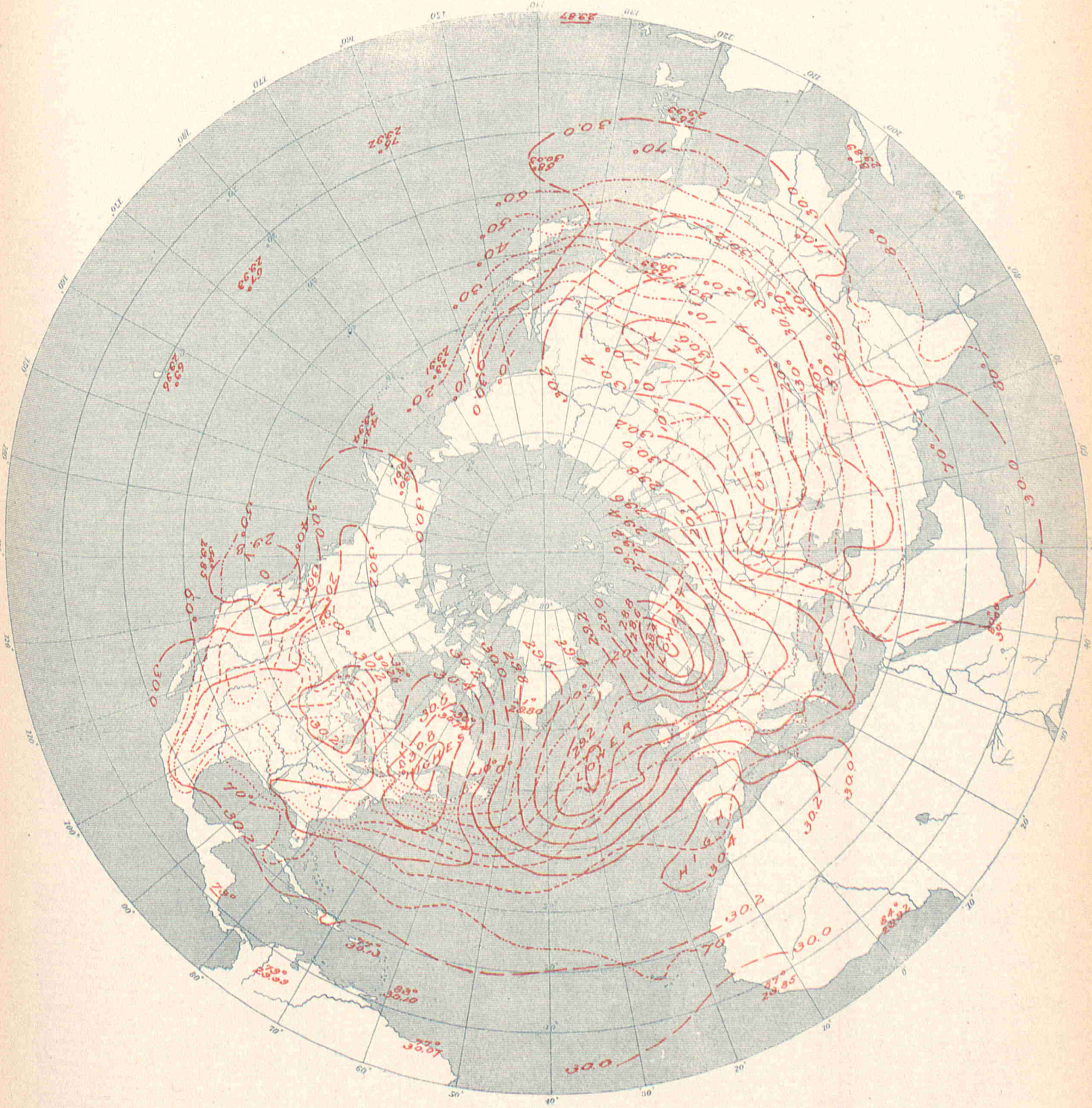
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. c=10	Clouds. Amount and kind. Upper. c=10	Clouds. Amount and kind. Lower. c=10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaiev	29.61	752.2	29.69	754.0	38.1	3.4	98	s.	13	6			10 n			0	0		Capt. Kurdakow.
Nikolievsk-on-the-Amoor.	30.08	764.0	30.17	766.2	—29.4	—34.1	79	calm	0	0		0	0						Iwanow.
Pekin, China	30.24	768.2	30.39	771.8	24.8	— 4.0	55	calm	0	0		0	2 k			0	0		Physical Observatory
Petro-Alexandrovsk	29.87	758.7	30.24	768.1	35.2	1.8	75	calm	0	0		0	3 ks						
Petrozavodsk	29.20	741.6	29.40	746 7	31.1	— 0.5	86	ssw.	16	7			10			0.039	1.0		Dr. Bergmann.
Pinsk	29.02	737.0	29.52	749 9	36.0	2.2	91	ssw.	4	2			10 ks			0.020	0.5		
Poti	29.97	701.1	30.00	761 9	53.8	12.1	54	e.	9	4		0	0			0	0		
St. Petersburg	29.33	744.9	29.35	745.5	31.6	— 0.2	89	se.	11	5			10 n			0.028	0.7		Central Physical Obs'y.
Samarkand	27.67	702.7	30.22	767.6	39.2	4.0	75	calm	0	0			10 n						
Semipalatinsk	29.87	758.6	30.60	777.3	7.7	—13.5	75	calm	0	0			4			0	0		Major Lasarew
Sevastopol	29.55	750 5	29.76	755.9	48.6	9.2	81	s.	27	12			10 n			0.102	2.6		
Staroi Bykhov	28.98	736.1	29.55	750.6	32.2	0.1	90	se.	7	3			10					light snow	
Tashkend, Laboratory	28.49	723.7	30.22	767.6	41.0	5.0	69	calm	0	0			9 k					light clouds	Terch, A. M
Tiflis	28.75	730 2	30.22	767.5	40.6	4.8	73	se.	2	1			10 ks			0	0		Physical Observatory.
Vernoe	27.64	702.0	30.31	769.8	23.4	— 4.8	86	calm	0	0			10 n						
Viatka	29.44	747.8	30.13	765.3	10.4	—12.0	95	s.	13	6			10			0	0		
Vladivostock	30.07	763.7	30.13	765.4	5.2	—14.9	72	nnw.	22	10		0	0			0	0		
Warsaw	29.00	736.6	29.43	747.5	37.0	2.8	74	ssw.	13	6		c	4 ks			0.098	2.5	light clouds	Astronomical Obs'y.
Yeniseisk	29.98	761 6	30.30	769.6	11.1	—11.6	82	sw.	9	4			10			0.016	0.4	snowing	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.10	739 1	29.67	753.6	29.8	— 1.2	87	sse.	9	4.0			10 n		se.	0.06	1.5	snowing	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760 6	30.06	763.4	60.4	15.8	66	e.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.25	768.3	30.31	769.8	57.2	14.0	90	se.	4.3	1.9			10			0.051	1.3	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.33	694.1	30.33	770.4	53.6	12.0	79	sw.	15.0	6.7		2	5	ne.		0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.11	714.1	30.37	771.4	57.6	14.2	80	sw.	17.0	7.6		0	5			0.035	0.9	cloudy	The Staff.
Murcia, Met. Obs'y	30.12	765.1	30.28	769.0	69.1	20.6	69	nnw.	2.0	0.9		2	5	ese.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.35	745.4	30.26	768.5	54.5	12.5	98	sw.	13.0	5.8			10			0.602	15.3	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.19	766 8	30.26	768.5	66.0	18.9	91	e.	0.4	0.2		0	1 k			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.94	760.4	29.99	761.8	76.3	24.6	80	e.	4.4	2.0		0	1 s			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.44	773.1	30.54	775.7	58.5	14.7	92	w.	4.5	2.0			10		w.	0.026	0.7		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.04	763.1	30.13	765.4	76.6	24.8	71	e.	2.2	1.0		0	3 k		se.	0	0	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	28.85	732.7	28.89	733.7	32.5	0.3	87	s			4		8			0.370	9.0		
Umea	28.66	728 0	28.71	729.3	33.8	1.0	85	sw.			6		10			0.421	10.7		"
Hernosand	28.56	725.5	28.61	726.8	33.1	0.6	89	s.			7		10			0.157	4.0		
Stockholm	28.70	728.9	28.87	733.4	30.0	2.2	68	wsw.			7		6			0.079	2.0		
Wisby	28.97	735.9	29.03	737.4	37.0	2.8	82	sw.			7		5			0.114	2.9		
Sub-series.																			
Upsala	28.69	728.8	28.78	731 0	34 7	1.5	71	s.	24.2	10.8			10	wnw.	sw	0.008	0.2		H. H. Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			29.79	756.7	54.7	12.6	64	sw.	6	2.5			10		sw.	0.102	2.6		The Observatory.
Valona			29.82	757.5	55.8	13.2		se.			1		10					raining	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.01	762.2	59.7	15.4	57	nw.			1	10 c	0	ssw.		0	0		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.59	777.0	30.68	779.3	14	—10.0	64	nw.	4	1.8			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.55	750.6	30.26	768 6	23.3	— 4.8	88	se.	13	5.8			10 n			0.08	2.0	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	636 0	30.16	766.1	28.1	— 2.2	80	se.	1	0.4		0	0			0	0	clear	J. B. Turton.
Assiunaboine, Ft., Montana	27.30	693.4	30.34	770.6	— 1.0	—18.3	72	calm	0	0		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.26	743.2	30.49	774 4	35.3	1.8	94	se.	7	3.1			10 s			0.01	0.3	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.51	774.9	30.52	775.2	34.0	1.1	78	e.	10	4.5			10 s			0	0	cloudy	B. A. Blundon.
Augusta, Georgia	30.33	770.4	30.53	775.4	41	5.0	82	n.	8	3.6			10 s			0	0	cloudy	W. J. Evans.
Baltimore, Maryland	30.53	775.4	30.58	776.7	31.0	— 0.6	78	e.	2	0.9			10 s			0.01	0.3	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	30.53	775.4	30.55	776.0	32.8	0.4	90	e.	18	8.0		6 k	3 s		se.	0	0	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.44	722.4	30.18	766.6	13.2	—10.4	87	nw.	2	0.9		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.31	693.7	30.29	769.4	— 5.0	—20.6	32	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.23	717.0	30.23	767.8	1.0	—17.2	100	calm	0	0		0	0			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.62	777.7	30.65	778.5	28.0	— 2.2	88	e.	16	7.2		0	9 ks		e.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	26.96	684.8	29.90	759.4	28.5	— 1.9	86	se.	4	1.8			10 s			0	0	cloudy	James Kenealy.
Boston, Massachusetts	30.52	775.2	30.69	779.5	15.0	— 9.4	71	nw.	4	1.8			10 s			0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.22	767.6	30.28	769.1	64.0	17.8	100	e.	4	1.8			fg.			0.13	3.3	dense fog	John McGlone.
Buffalo, New York	29.58	751.3	30.37	771.4	23	— 5.0	90	e.	6	2.7			10 n			inap.	inap.	light snow	Wm. Finn.
Buford, Fort, Dakota	28.06	712.7	30.28	769.1	— 3.4	—19.7	100	w.	3	1.3		2 c	0			0	0	clear	A. Schnelder.
Cairo, Illinois	29.92	760.0	30.34	770.6	43.3	6.3	94	w.	7	3.1			10 n		w.	0.04	1.0	light rain	W. H. Ray.
Canby, Fort, Washington Ter	29.43	747.5	29.63	752.6	38.8	3.8	86	ne.	2	0.9			9 s			0.16	4.1	cloudy	J. H. Young.
Cape Henry, Virginia	30.50	774.7	30.52	775 2	34.5	1.4	100	ne.	10	4.5			10 n			0.17	4.3	light rain	A. K. Alderson.
Cape May, New Jersey	30.49	774.4	30.52	775.2	36.5	2.5	84	e.	7	3.1			10 s			0	0	threatening	W. E. Smith.
Cape Mendocino, California	29.00	736.6	29.70	754.4	42	5.6	100	se			4		10 n			0.30	7.6	light rain	A. P. Leavitt.
Cedar Keys, Florida	30.39	771.9	30.41	772.4	56.0	13.3	93	ne.	11	4.9		0	9 s		n.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.37	771.4	30.43	772.9	46.0	7.8	93	ne.	8	3.6			10s; fg			0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.61	752.1	30.50	774.7	34.2	1.2	93	ne.	5	2.2			10 n		ne.	0.21	5.3	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.60	751.8	30.46	773.7	42.5	5.8	74	s.	10	4.5			10 s		sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	30.26	768.6	30.8	— 0.7	63	nw.	12	5.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.44	747.8	30.20	767.1	35.2	1.8	85	sw.	5	2.2			10 s		sw.	0.13	3.3	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.51	774.9	30.53	775.4	32.0	0.0	88	ne.	8	3.6			10 ks; hz		s.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.62	752.3	30.32	770.1	41.3	5.2	92	s.	2	0.9			fg.			0	0	dense fog	L. Dunne.
Cleveland, Ohio	29.48	748.8	30.26	768.6	29.0	— 1.7	90	s.	11	4.9			10 n		s.	0.02	0.5	light snow	W. Line.
Columbus, Ohio	29.39	746.5	30.29	769.4	33.8	1.0	80	s.	7	3.1			10 s			inap.	inap.	cloudy	F. T. Williams.
Concho, Fort, Texas	28.37	720.6	30.39	771.9	42.1	5.6	100	s.	5	2.2			10 s			0	0	threatening	C. E. King.
Custer, Fort, Montana	26.79	680.6	30.17	766.3	4	—15.6	76	calm	0	0		0	5 s			0	0	fair	W. J. Daily.
Davenport, Iowa	29.49	749.0	30.20	767.1	36	2.2	79	sw.	5	2.2			10 s			0.16	4.1	cloudy	R. R. Martin.
Davis, Fort, Texas	25.38	644 6	30.36	771.1	27.0	— 2.8	80	se.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	27.98	710 7	29.79	756.7	32.0	0.0	94	n.	3	1.3		0	0			0.02	0.5	clear	H. S. Blandford.
Deadwood, Dakota	25.27	641.8	30.22	767.6	28.2	— 2.1	80	sw.	2	0.9		0	0			0	0	clear	G. Kingsbury.
Delaware Breakwater, Del.	30.53	775.4	30.55	776.0	33.4	0.8	88	e.	3	1.3			10 s			0	0	cloudy	G. A. Martin.
Denver, Colorado	24.76	628 9	30.28	769.1	38.0	3.3	52	s.	8	3.6		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.21	741.9	30.18	766.6	37	2.8	82	w.	4	1.8			10 s		w.	0.19	4.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.53	750.0	30.29	769.4	32.1	0.1	78	calm	0	0			10 n			0.12	3.0	light snow	N. B. Conger.
Dodge City, Kansas	27.50	698.5	30.25	768.3	28	— 2.2	70	w.	8	3.6		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.42	747.3	30.19	766.8	34.7	. 1.5	75	s.	1	0.4			10 s			0.24	6.1	cloudy	J. Harvey Smith
Duluth, Minnesota	29.28	743.7	30.09	764.3	28.0	— 2.2	88	calm	0	0			10 n			0.12	3.0	light snow	E. R. Brace.
Eastport, Maine	30.68	779.3	30.75	781.0	— 4.5	—20.3	64	nw.	20	8.9		0	1 s		n.	0	0	clear	D. O. Murphy
Elliott, Fort, Texas	27.39	695.7	30.32	770.1	39.1	3.9	65	nw.	8	3.6		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.43	671.3	30.31	769.9	31.0	— 0.6	88	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.52	749 8	30.29	769.4	26.5	— 3.1	88	se.	16	7.2			10 n			0.03	0.8	light snow	C. A. Shaw.
Escanaba, Michigan	29.47	748.5	30.19	766.8	27.0	— 2.8	92	se.	6	2.7			10 n			0.09	2.3	light snow	L. M. Pindell.
Fort Smith, Arkansas	29.80	756.9	30.30	769.6	38.6	3.7	82	e.	6	2.7			10 s			0	0	cloudy	J. B. Campbell.
Galveston, Texas	30.31	769.9	30.35	770.9	56.8	13.8	98	se.	4	1 8			10 s			0	0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.47	748.5	30.18	766.6	28.0	— 2.2	82	e.	2	0.9			10 n			0.05	1.3	light snow	Joseph E. Muelle
Grant, Fort, Arizona	25.28	642.1	30.18	766.6	42.3	5.7	38	e.	9	4.0		0	0			0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.42	772.7	30.42	772.7	41.0	5.0	92	ne.	6	2.7		6 ck	3 k	e.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.72	653.3	30.10	764.5	8	—13.3	80	n.	4	1.8		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	28.63	727.2	30.17	766.3	19.2	— 7.1	74	n.	2	0.9		0	1 s			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.41	747.0	30.25	768.3	37.5	3.1	80	w.	3	1.3			10n;fg		w.	0.02	0.5	light rain	C. F. R. Wappenhans.
Indianola, Texas	30.28	769.1	30.31	769.9	53.3	11.8	100	se.	7	3.1			fg.			0.05	1.3	dense fog	I. A. Reed.
Jacksonville Florida	30.40	772.1	30.45	773.4	52.3	11.3	95	n.	3	1.3			10 s			0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.52	749.8	30.22	767.6	36.0	2.2	89	calm	0	0			10 s			0.08	2.0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.26	768.6	30.28	769.1	69	20.6	90	ne.	14	6.3		0	4 k		ne.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.48	774.2	30.50	774.7	38.4	3.6	87	ne.	16	7.2			10 s		ne.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.37	746.0	30.45	773.4	39.7	4.3	83	sw.	4	1.8			10 n			inap.	inap.	light rain	J. A. Cody.
La Crosse, Wisconsin	29.33	745.0	30.17	766.3	34	1.1	79	s.	7	3.1			10 s			0.24	6.1	cloudy	S. C. Emery.
Leavenworth, Kansas	29.27	743.4	30.23	767.8	37	2.8	89	sw.	1	0.4			10s;fg			0.24	6.1	cloudy	T. S. Outram.
Lewiston, Idaho	28.95	735.3	29.82	757.4	27.8	— 2.3	82	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.98	761.5	30.31	769.9	43.0	6.1	93	calm	0	0			fg.			0.08	2.0	dense fog	W. U. Simons.
Los Angeles, California	29.60	751.8	30.00	762.0	49.6	9.8	96	se.	16	7.2			10 s		se.	1.36	34.5	threatening	T. S. Collins.
Louisville, Kentucky	29.70	754.4	30.29	769.4	44.0	6.7	83	s.	7	3.1			10 n			0.07	1.8	light rain	L. M. Dey.
Lynchburg, Virginia	29.79	756.7	30.51	774.9	29.5	— 1.4	72	e.	1	0.4			10 s			inap.	inap.	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.55	750.6	30.25	768.3	24.0	— 4.4	88	e.	9	4.0			10 n			1.00	25.4	light snow	D. B. Notson.
Macon, Fort, North Carolina	30.47	773.9	30.48	774.2	38.7	3.7	82	n.	12	5.4			10 s		n	0	0	cloudy	William Daly.
Maginnis, Fort, Montana					— 3.0	—19.4	68	ne.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.39	746.5	30.17	766.3	28.0	— 2.2	88	se.	7	3.1			10 n			0.12	3.0	light snow	J. Gilligan.
Memphis, Tennessee	29.98	761.5	30.34	770.6	45.0	7.2	100	se.	4	1.8			fg.			0.10	2.5	dense fog	D. T. Flannery
Milwaukee, Wisconsin	29.38	746.2	30.18	766.6	34.6	1.4	81	sw.	6	2.7			10 s			0.14	3.6	cloudy	S. W. Rhode.
Mobile, Alabama	30.36	771.1	30.40	772.1	49	9.4	96	n.	6	2.7			10 n		n.	0.16	4.1	light rain	H. U. Jones.
Montgomery, Alabama	30.22	767.6	30.46	773.7	46	7.8	93	ne.	1	0.4			fg.			0.19	4.8	dense fog	Geo. E. Franklin.
Moorhead, Minnesota	29.05	737.9	30.16	766.1	17	— 8.3	100	calm	0	0			10 s			0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.93	607.8	30.56	776.2	7.0	—13.9	68	calm	0	0			10 s			0	0	cloudy	Edwd. A. Beals.
Nashville, Tennessee	29.75	755.6	30.36	771.1	38.5	3.6	91	s.	4	1.8			10n;fg			0.05	1.3	light rain	L. N. Jesunofsky
New Haven, Connecticut	30.52	775.2	30.64	778.2	16.5	— 8.6	75	ne.	10	4.5			10 s		ne.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.63	778.0	30.68	779.3	21.0	— 6.1	70	n.	5	2.2			10 s		nw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.34	770.6	30.40	772.1	50.0	10.0	93	se.	6	2.7			fg.			0	0	dense fog	M. Herman.
New York, New York	30.42	772.7	30.61	777.5	25.5	— 3.6	82	ne.	7	3.1			10 s			0	0	cloudy	H. J. Penrod.
Norfolk, Virginia	30.48	774.2	30.50	774.7	34.0	1.1	88	n	3	1.3			10 n		n.	0.02	0.5	light rain	Wm. Davis.
North Platte, Nebraska	27.11	688.6	30.23	767.8	17.9	— 7.8	87	w	3	1.3		0	0			0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	29.63	752.6	29.67	753.6	37.0	2.8	89	s.	1	0.4		0	9 s			inap.	inap.	cloudy	J. Dascomb
Omaha, Nebraska	28.95	735.3	30.22	767.6	32.5	0.3	87	s.	4	1.8			10s;fg			0.02	0.5	cloudy	A. Pollak
Oswego, New York	30.14	765.5	30.48	774.2	24.0	— 4.4	48	se.	11	4.9			10 s			0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.76	755.9	30.34	770.6	55.5	13.1	100	s.	5	2.2			fg.			0.03	0.8	dense fog	P. T. Jenkins.
Pensacola, Florida	30.36	771.1	30.40	772.1	53.4	11.9	83	ne.	6	2.7			10 s			0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.47	773.9	30.58	776.7	29	— 1.7	77	ne.	8	3.6			10 ks		sw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.67	448.8	30.37	771.4	5.0	—15.0	100	sw.	11	4.9			10 s			0.01	0.3	cloudy	H. Hall.
Pittsburg, Pennsylvania	29.50	749.3	30.35	770.9	28.5	— 1.9	94	e.	4	1.8			10 n		se.	0.02	0.5	light snow	O. D. Stewart
Poplar River, Montana					— 8.3	—22.4	72	e.			1	2 k	0			inap.	inap.	clear	G. A. Garden.
Port Huron, Michigan	29.52	749.8	30.25	768.3	23.3	— 4.8	97	se.	6	2.7			10 n			0.02	0.5	light snow	M. H. Perry
Portland, Maine	30.69	779.5	30.74	780.8	9.2	—12.7	68	ne.	11	4.9		10 cs	0			0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.60	751.8	29.68	753.9	35.0	1.7	96	calm	0	0			10 s			0.21	5.3	cloudy	M. L. Hearne.
Prescott, Arizona	24.77	629.1	30.15	765.8	35.0	1.7	82	e.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	30.65	778.5	30.68	779.3	23	— 5.0	71	calm	0	0			10 s			0	0	cloudy	O. N. Kitchel.
Red Bluff, California	29.43	747.5	29.80	756.9	43	6.1	100	s.	10	4.5		0	2 ks		s.	0.17	4.3	clear	J. R. Williams.
Rio Grande City, Texas	30.09	764.3	30.34	770.6	66.4	19.1	94	e.	2	0.9			fg.			0	0	dense fog	L. G. Schultz.
Rochester, N. Y.	29.70	754.4	30.41	772.4	23	— 5.0	88	se.	13	5.8			10s;fg			inap.	inap.	cloudy	E. W. McGann.
Roseburg, Oregon	29.12	739.6	29.69	754.1	38.6	3.7	88	calm	0	0			10 n		s.	0.17	4.3	light rain	J. J. Nanry.
Sacramento, California	29.74	755.4	29.82	757.4	46.5	8.1	93	se.	5	2.2			10 s		sw.	0.25	6.3	cloudy	J. A. Barwick
St. Louis, Missouri	29.63	752.6	30.29	769.4	42.0	5.6	94	s.	12	5.4			10 s		s.	0.01	0.3	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.97	761.2	30.01	762.2	30	— 1.1	100	s.			2		10 s			0.02	0.5	cloudy	Fred. H. Clarke
St. Paul, Minnesota	29.16	740.7	30.10	764.5	31.0	— 0.6	100	calm	0	0			10 s			0.08	2.0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.15	740.4	30.13	765.3	17.8	— 7.9	89	nw.	16	7.2		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.54	648.7	30.11	764.8	39.8	4.3	65	se.	6	2.7			10 s			inap.	inap.	cloudy	J. Craig.
San Diego, California	29.94	760.5	30.00	762.0	53.5	11.9	90	se.	8	3.6			10 s		se.	inap.	inap.	cloudy	F. R. Day.
Sandusky, Ohio	29.50	749.3	30.22	767.6	35	1.7	73	sw.	5	2.2			10 n		sw.	inap.	inap.	light snow	B. F. Hough.
Sandy Hook, New Jersey	30.59	777.0	30.62	777.7	31.0	— 0.6	78	e.	25	11.2			10 s			0	0	cloudy	V. P. Chappel.
Sanford, Florida	30.34	770.6	30.39	771.9	54.1	12.3	90	ne.	7	3.1		8 k	fg.	ne.		0	0	cloudy	J. B. Marbury
San Francisco, California	29.72	754.9	29.79	756.7	49.0	9.4	93	se.	3	1.3		0	4s;fg		sw.	0.30	7.6	fair	N. Gorom.
Savannah, Georgia	30.34	770.6	30.44	773.2	47	8.3	82	ne.	7	3.1		0	5 s		n.	0	0	fair	R. M. Geddings.
Shaw, Fort, Montana	26.38	670.0	30.24	768.1	2	—16.7	76	ne.	1	0.4		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.06	763.5	30.31	769.9	50.0	10.0	89	s.	3	1.3			fg.			0	0	dense fog	E. N. Meekins.
Sitka, Alaska	30.17	766.3	30.24	768.1	23	— 5.0	61	e.	4	1.8		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	30.42	772.7	30.46	773.7	38.4	3.6	94	ne.	10	4.5			10s;fg		sw.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.67	702.8	29.81	757.2	31.5	— 0.3	94	calm	0	0			10 s			0.16	4.1	cloudy	D. Moore.
Springfield, Illinois	29.53	750.0	30.26	768.6	39.8	4.3	86	sw.	3	1.3			10 s			0.02	0.5	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.20	690.9	30.34	770.6	36.0	2.2	82	s	4	1.8		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.52	749.8			38.5	3.6	94	e.	2	0.9			10 s			0.11	2.8	cloudy	R. Connor.
Thomas, Camp, Arizona	27.39	695.7	30.22	767.6	32.2	0.1	65	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.49	749.0	30.23	767.8	29	— 1.7	77	s.	1	0.4			10 s			0.05	1.3	cloudy	A. Buell.
Unalaskha, Alaska	29.92	760.0	29.94	760.5	44	6.7	76	s.	10	4.5			10 s		s.	0.73	18.5	cloudy	Samuel Applegate
Vicksburg, Mississippi	30.12	765.0	30.40	772.1	49.0	9.4	86	se.	6	2.7		0	7 s		w.	0	0	fair	C. Dill.
Washington, D. C.	30.45	773.4	30.57	776.5	27.4	— 2.6	87	ne.	1	0.4			10 n			inap.	inap.	light snow	T. B. Harrison.
West Las Animas, Colorado	26.10	662.9	30.23	767.8	30.5	— 0.8	66	sw.	2	0.9		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.42	772.7	30.48	774.2	37.0	2.8	89	n.	8	3.6			10 s			0	0	cloudy	L. H. Albrecht.
Yankton, Dakota	28.73	729.7	30.15	765.8	23.6	— 4.7	75	calm	0	0		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.87	758.7	30.02	762.5	45.7	7.6	86	calm	0	0		0	1 s		sw.	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.89	759.2	29.91	759.7	23.0	— 5.0	93	n.	23	10.3			10 n			0.01	0.3	snowing	George Cherulick.
Bluefields, Nicaragua, C. A.					77	25.0		n.			3	3 cs	4 n		n	0.12	3.0	fair	W. H. Jackson.
Bogota, U. S. C.	22.04	559.7			53.6	12.0	90	calm	0	0			8 k		w.	0.248	6.3		Joaquin Gomez.
Chimo, Fort, Ungava	30.58	776.7	30.74	780.8	—30	—34.4	100	s.	5	2.2		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.12	765.0	67.1	19.5	92	calm	0	0		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	77	25.0	91	e.			3	5 k	8 ps	e.	e.	0	0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.43	747.5	29.99	761.7	79	20.1	89	calm			0		9 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					73	22.8	90	ne.			2					0	0	clear	Earl Flint.
York Factory, B. A.	30.19	766.8	30.26	768.6	—32.0	—35.6		w.	13	5.8		1 c	0	w.		0	0		Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	30.00	762.0	30.01	762.2	77.7	25.4	87	n.	11.6	5.2		0	4 k		n.			fair	P. Fasiani.
Naos, Bay of Panama	29.95	760.8	30.02	762.6	73.8	23.2	91	nw.			4	0	1 k		n.			clear	Antonio Fabre.

Vessels with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 48° 01′, W. 22° 04′ †	29.62	752.3				sw.			4		8		sw.	8 h'r	8 h'r	high	var.	cloudy.
S. S. Alleghany, near Cape Henry, Va			40	4.4		ne.			2		10		ne.					raining.
Schr. Anna A. Holton, N. 37° 43′, W. 74° 47′			48?	8.9?		e.			3		10		e.	0	0	mod.	ne.	overcast.
S. S. Alps, N. 18° 28′, W. 66° 06′			80	26.7		e.			2		4		e.	0	0	short		
S. S. British Prince, N. 40° 06′ W. 71° 15′			37	2.8		se.			2		9		se.; sw.	2 h'r	2 h'r	sm'h		foggy.
S. S. Circassian, N. 45° 01′ W. 56° 39′	30.22	767.6	9	—12.8		nw.			6		9		nw			5	nw.	rain & snow
S. S. City of Augusta, N. 36° 59′ W. 75° 47′ †	30.53	775.4				ne.			7		10		ne.	0	0			cloudy.
S. S. Denmark, New York, N. Y †	30.62	777.7	25	— 3.9	88	ne.			3					0	0			
S. S. Daniel Steinmann, N. 41° 53′, W. 66° 34′ †	30.63	778.0	29	— 1.7		nnw.			3		8		n.	0	0	sm'h		cloudy.
S. S. France, N. 46° 05′, W. 43° 46′	29.74	755.5				wnw.			6		10		wnw.			h'vy	wnw.	covered.
S. S. Gen. Werder, N. 42° 31′, W. 59° 05′	30.46	773.7				nw.			6–7		10		nw.	24 h'r	24 h'r	cross	nw.	squally.
Bg. Lilian, N. 34° 08′, W. 68° 40′ †	30.44	773.2				ne.			3		8			¼ h'r	¼ h'r	mod.	ene	cloudy.
S. S. Llandaff City, Sandy Hook, N. J *†	30.60	777.2	25	— 3.9		ne.			5		10			snow	snow	sm'h		hazy.
S. S. Lessing, N. 43° 07′, W. 48° 59′	29.87	758.7	20	— 6.7		wnw.			7		10		wnw.	½ h'r	½ hr	r'gh	nw.	overcast.
S. S. Mentmore, N. 42° 09′, W. 61° 26′						ne.			9		10			16 h'r	16 h'r	mod.		stormy.
S. S. Nova Scotian, N. 43° 03′, W. 44° 34′	29.80	756.9	34	1.1		w.			6		10		wnw.			long	w.	squally.
S. S. Pavonia, N. 42° 52′, W. 49° 51′			25	— 3.9	88	w			7		7		w.	5 h'r	5 h'r	r'gh	wnw.	snow squalls
S. S. Picqua, Boston, Mass			29?	—1.7?		ese.			3				ese	0	0			cloudy.
S. S. Romano, New York Harbor, N. Y	30.58	776.7	32	0.0		ne.			3		8		ne.	8 h'r	8 h'r			snowy.
Bgt. Sunlight, N. 34° 02′, W. 74° 35′ †	30.42	772.7				e.			3		4		e.	½ h'r	½ h'r	mod	nne.	fair.
S. S. Thingvalla, N. 40° 47′, W. 70° 10′			26.6	— 3		calm			0		10			3 h'r	3 h'r	mod.	nnw.	misty.
S. S. Valencia, N. 26° 21′, W. 70° 29′ †	30.29	769.4	73	22.8	85	ne.			6		7		ne.	3 h'r	3 h'r	h'vy	ne	fair.
S. S. Westphalia, New York, N. Y	30.66	778.7	26	— 3.3	88	ne.			2		10			0	0			cloudy.
S. S. Andes, N. 21° 55′, W. 74° 20′ *†	30.22	767.6	76	24.4		ne.			3		3		ne.	4 h'r	4 h'r	mod.	ne.	squally.
Bk. Ariadne, New York, N. Y	30.63	778.0	26	— 3.3		ne.			2		8		sw.	0	0			cloudy.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I †	30.32	770.1	72	22.2		nne.			1		2		ne.	0	0			clear
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.30	769.6				ne.			1		4		ne.	0	0	sm'h		fair.
Bk. Aureola, N. 27° 51′, W. 68° 59′†	30.21	767.3				nne.			6		5		nne.	3 h'r	3 h'r	h'vy	nne.	fair.
U. S. S. Alliance, Cape Haytien, Hayti, W. I	30.19	766.8	72	22.2	80	se.			1		8			hv'y	hv'y	sm'h		cloudy.
S. S. Britannic, N. 51° 10′ W. 22° 00′			43	6.1		wsw.			3		9		sw.	6 h'r	6 h'r	high	nw.	raining.
S. S. British Princess, N. 50° 25′, W. 17° 29′†	29.61	752.1	48	8.9		s.			5		10 ks			7 h'r	7 h'r	h'vy	wnw.	drizzling.
S. S. Chalmette, N. 33° 45′, W. 77° 32′ †	30.41	772.4				sse.			4		6		se.	0	0	mod	ene.	fair.
S. S Donau, N. 49° 12′, W. 25° 09′	29.43	747.5	51.8	11.0		ssw.			5		10		ssw.	12 h'r	12 h'r	mod.		raining.
S. S. England, N. 51° 00′, W. 19° 59′	29.49	749.0				se.			5		10		se.	6 h'r	6 h'r	mod.	w.	raining.
Schr. Ellen Crusoe, N. 38° 10′ W. 73° 45′ *†	30.52	775.2				ese.							ese.	0	0	short		cloudy.
S. S. Gallia, N. 51° 10′, W. 11° 22′			48	8.9		w.			5		8		nw.	0	0	high	w	squally.
Bg. George, N. 28° 06′. W. 71° 50′ *†	30.32	770.1				ene.			2		0			shr's	sh'rs	r'gh	ene.	clear.
S. S. Grecian, Dunkirk, Belgium	29.61	752.1	43	6.1	67	w.			6		0			½ h'r	½ h'r			clear.
S. S. Holland, N. 48° 48′. W. 29° 56′*	29.22	742.2	40	4.4		sw.			5		10		wsw.	4 h'r	4 h'r	r'gh	w.	cloudy.
Bg. John Welsh, jr, Mobile, Ala †	30.39	771.9				n.			3		10		n.					foggy.
S. S. Lone Star, N. 24° 32′, W. 81° 10′*†	30.30	769.6	71	21.7		ne.			3		9		ene.	8 h'r	8 h'r	mod.	ene.	squally.
S. S. Muriel, St. Kitts, W. I	30.13	765.3	77	25.0		ene.			2		0			0	0			clear.
S. S. Ontario, N. 44° 40′, W. 53° 30′	30.00	762.0	11	—11.7		wnw.			7		7		wnw.	6 h'r	6 h'r	r'gh	wnw.	snow squalls
S. S. Rhaetia, N. 50° 34′, W. 13° 01′	29.79	756.7	47	8.3	92	s.			4		10			4 h'r	4 h'r	cross	w.	
Bk. Saga, N. 34° 38′, W. 74° 19′ *†	30.41	772.5	60	15.6		ne.;ese.			0–4		6		var.	0	0	mod.		fair.
S. S. Salerno, N. 48° 54′, W. 22° 15′ †	29.55	750.6				wsw.			5		10		w.			mod.	w	raining.
S. S. St. Laurent, N. 49° 35′, W. 10° 00′			50.0	10		sw.			4		8		sw.	0	0	large	sw.	cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.21	767.3	75	23.9	68	e.			1		2		e.	0	0			clear.
U. S. S. Tennessee, N. 11° 46′, W. 80° 25′	30.01	762.2	78	25.6	78	ne.	21	9.4			2		ne.	0	0	mod.	n.	clear.
U. S. S. Vandalia, La Guayra, Venezuela	30.04	763.0	75	23.9	68	calm			0		1		calm					clear
S. S. Wyoming, N. 51° 06′. W. 12° 24′	29.76	755.9	44	6.7		sw.			4		9		var.	2 h'r	2 h'r	h'vy	w.	threatening.
S. S. Westernland, N. 49° 50′, W. 6° 45′	29.93	760.2	49	9.4		w.			5		10		w.	4 h'r	4 h'r	high	w.	overcast.
S. S. Zeeland, N. 47° 12′, W. 35° 49′ *†	29.25	742.9	41	5.0		wnw.			6		10		wnw.	rain	rain	long	wnw.	overcast.
S. S. City of Berlin, N. 40° 40′, W. 72° 45′			30	— 1.1		ene.			3							sm'h		cloudy.
U. S. Navy Yard, Portsmouth N.H*	30.72	780.3	11	—11.7	80	ne.	6	2.7			10		e.	0	0			cloudy.
U. S. S. Kearsarge, Leghorn, Italy	29.59	751.6	55	12.8	74	wnw			5		5							squally.
U. S. S. Lancaster, Leghorn, Italy			55	12.8	93	w.			5		5		w.	0	0	long	w.	fair.
U. S. S. New Hampshire, Newport, R. I	30.66	778.7	20	— 6.7	100	ene.			2		10					sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	29.60	751.8	53	11.7	73	wnw.			4		2		nw.			sm'h		fair.
U. S. S. Shenandoah, Porto Praya, Cape Verd Ids *	30.13	765.3	77	25.0	91	ne.			3		2		ne.			sm'h		fair.
U. S. S. Trenton, Marseilles, France	30.02	762.5	56	13.3	75	n.			4		2		n.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.05	763.3	62	16.7	72	w.			6		4	w.						d. clouds.
H. M. S. Alecto, N. 8° 30′, W. 13° 15′	29.86	758.4	91	32.8		nne.			1		1							blue sky.
H. M. S. Comus, N. 31° 20′, W. 26° 10′	30.29	769.4	64	17.8	89	sse.			3		8	ssw.				3	s.	
H. M. Dockyard, Bermuda, Atlantic	30.33	770.4	58	14.4	94	n.			4		4	nne.						d. clouds.
H. M. S. Minotaur, Palmas Bay, Sardinia	30.06	763.5	61	16.1	77	nw.			6		3	wsw.						misty.
H. M. S. Tyne, N. 19° 02′, W. 23° 10′	30.16	766.1	71	21.7	53	ne.			6		0					5	ne.	misty.
H. M. S. Woodlark, N. 34° 30′. E. 21° 35′	29.80	756.9	60	15.6	76	wsw.			6		8	w.				6	wnw.	squally.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.92	759.9	84.2	29.0	89	ssw.			4		2			0	0	2	sw.	d. clouds.
S. S. Ohio, (Am) Philadelphia, Pa			30	— 1.1	100	nw.			1		10		ne.	12 h'r	12 h'r			cloudy.
S. S Pennsylvania, N. 45° 56′, W. 50° 00′ †	29.90	759.4	21?	—6.1?	85	nnw.			5		9		nw.	12 h'r	12 h'r	high	nnw.	squally.
S. S. Prussian, N. 46° 07′, W. 48° 36′	29.86	758.4	11	—11.7		nw.			5		8		nw.				nw.	snow squalls
S. S. Scandinavian, N. 42° 54′, W. 59° 20′			16	— 8.9		nw.			6		10		nnw.	snow	snow	mod.	var.	snowing.
S. S. Ailsa, N. 22° 36′, W. 74° 22′			74	23.3	93	ne.			2		2		ne.	0	0	sm'h		fine.
S. S. Devonia, N. 53° 45′, W. 22° 00′†	29.47	748.5	37	2.8		s.			3		10		se.	3 h'r	3 h'r	h'vy	nw.	rainy.
S. S. Carroll, Halifax, N.S			— 8	—22.2		n.			2		1		n.	0	0			clear.
S. S. Wisconsin, N. 50° 09′, W. 32° 19′	29.27	743.4	41	5.0		w.			6		10		w.	4 h'r	4 h'r	mod.	nw.	squally.
S. S. Bohemia, Hamburg, Germany						sw.			6–8		10		wsw.					sleeting.
S. S. Virginian, N. 50° 33′ W. 18° 00′*	29.60	751.8	52	11.1		sw.			5				sw.	0	0	con.		clear.
S. S. Hevelius, Liverpool, Eng			40	4.4		wnw.			7		9		nw.	0	0			cloudy.
S. S. Olbers, N. 48° 33′, W. 26° 52′	29.40	746.7	50	10.0	100	var.			3		10							rain squalls.
S. S. Texas, N. 27° 58′, W. 87° 03′*†	30.30	769.6	78	25.6	86	ne.			1		0			0	0	sm'h		clear.
S. S. City of Washington, N. 27° 02′, W 80° 00′*†	30.35	770.9	80?	26.7?		ne.			4		5		ne.	0	0	mod.	ne.	fine.
S. S. Erin, London, Eng	29.71	754.6	41	5.0		w			4		7		w.	0	0			cloudy.
S. S. Greece, N. 40° 43′, W. 65° 15′ †	30.64	778.2	34	1.1	100	n.			4		7		n.	0	0	sm'h	n.	cloudy.
S. S. Salier, N. 46° 45′, W. 43° 36′ *	29.75	755.6				wnw.			6		10		nw.	6 h'r	6 h'r	long	wnw.	rainy.
S. S. Rhyniand, N. 50° 14′, W. 14° 50′	29.64	752.8	50	10.0	79	sse.			5		10			sh'rs	sh'rs	mod.	con	
S. S. Waesland, N. 41° 03′, W. 64° 58′	30.72	780.3	29	— 1.7		n.			6		10		n.	0	0	mod	n.	cloudy.
S. S. State of Nevada, Glasgow, Scotland*†	29.26	743.2	37	2.8		w.			4		5		sw.	0	0			fine.
S. S. Saxon, Philadelphia, Pa			28	— 2.2		ene.			1		10							threatening.
S. S. Celtic, Liverpool, Eng*†	29.55	750.6	45	7.2		wnw.			8		10		wnw.	5 h'r	5 h'r			overcast.
S. S. Rialto, N. 42° 40′, W. 43° 39′ †	29.75	755.6	38	3.3		wnw.			6		8		nw.	3 h'r	3 h'r	long	nw.	cloudy.
Bg, Alcira. San Carlos, Venezuela	29.92	760.0	79	26.1		ne.			2		3		ne.	0	0	mod.	ene.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.50	774.7	60	15.6	85	calm			0		4			1 h'r	1 h'r			fair.
Schr. Adda Doane, N. 27° 30′, W. 75° 31′ †	30.34	770.6				ne.			4		3		ne.	0	0	long	ne.	clear.
Bgt. Achsah, Clementsport, N.S			0	—17.8		nw.			4		5		nw.					misty.
Bk. Bayonnaise, N. 35° 39′, W. 31° 02′			62.6	17.0		sw.			8		10		sw.	1½ h'r	1½ h'r	h'vy	sw.	squally.
Bk. Chas. Stewart, N. 34° 55′, W. 33° 00′						sse.			7		5		se.	sh'rs	sh'rs	r'gh	se.	fair.
Schr. C. R. Flint, N. 29° 35′, W. 57° 17′†	30.33	770.4	70	21.1		ne.			4		10		ne.	2 h'r	2 h'r	long	ne.	rainy.
Schr. Clotilde, N. 31° 08′, W. 78° 40′ †	30.41	772.4	72	22.2		se			2		10		s.	2 h'r	2 h'r	h'vy	var.	cloudy.
Bk. Celestina, N. 10° 30′, W. 26° 05′ *†	30.06	763.5				e.			4		1		e.	0	0	mod.	e.	hazy.
S. Dora, N. 59° 44′, W. 17° 19′ *†	29.27	743.4	37.4	3.0		nw.			6		10		ene.	16 h'r	16 h'r	r'gh	ne.	overcast.
S. E. J. Spicer, N. 45° 29′, W. 11° 00′	30.05	763.3	56	13.3		sw.			6		10		var.	rain	rain	high	wnw.	foggy.
Bk. Fred W. Carlon, off Abaco Ids, W. I						ne.			6		4		ne.	0	0	r'gh	ne.	fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity Miles p. hr.	Velocity Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. Hedwig, N. 37° 38′, E. 9° 27′	30.09	764.3	62.8	17.1	89	w.			6		4		w.	2 h'r	2 h'r	4	w.	hazy.
Bk. Hattie G. McFarland, Ship Island, Miss.						wsw.			4		fg.			2 h'r	2 h'r			foggy.
S. Henry, N. 36° 04′, W. 5° 08′			60.8	16.0		wnw.			4		0					2	wsw.	clear.
Bk. Idaho, Cienfuegos, Cuba *†	30.30	769.6				ne.			4		0			0	0			clear.
Bg. John Wesley, Havana, Cuba, W.I.						calm			0		0			0	0			clear.
Schr. John L. Thomas, Hobbies Cays, C. A†	30.06	763.5	77	25.0	86	ene.			3		2		ne.	0	0	mod.	ene.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe†	30.06	763.5				calm			0		1		ene.	½ h'r	½ h'r			
S. S. Laurel, Key West, Fla†	30.29	769.4	69	20.6		ene.			3-4		8		ene.	0	0			cloudy.
S. S. Madrid, London, Eng			40	4.4	82	wsw.			4		3		wsw.	0	0			fair.
Schr. Maria Matilda, N. 36° 42′, W. 74° 28′			66	18.9		ssw.			1		3		sw.	10 h'r	10 h'r	long	n.	fair.
S. Parker M. Whitmore, N. 15° 43′, W. 36° 55′..*†	30.06	763.5	76	24.4		ene.			4		3		ene.	0	0	mod.	ene.	fair.
S. S. P. de Satrastegui, N. 43° 33′, W. 22° 19′	29.99	761.7				sw.			6		8		sw.	1 h'r	1 h'r	r'gh	var.	hazy.
Bg. Rising Sun, N. 14° 25′, W. 58° 05′†	30.03	762.7	76	24.4		ene.			2		1		ene.	0	0	long	ne.	clear.
Bk. Rosalie, N. 48° 26′, W. 17° 10′ *†	29.60	751.8				sw.			6		9		w.	2 h'r	2 h'r	mod.	wnw.	cloudy.
S. Salisbury, N. 18° 06′, W. 52° 02′	30.17	766.3	74.7	23.7	85	nne.			1-2		2 k		ne.	0	0	long	ene.	clear.
Bk. Silica, N. 34° 39′, W. 54° 22′*	30.37	771.4				n.			6		5		n.			h'vy	nnw.	fair.
Bg. Teneriffe, N. 36° 30′, W. 73° 40′	30.44	773.2				n.			3		2		n.	0	0	4		clear.
S. S. City of Alexandria, Vera Cruz, Mexico *†	30.13	765.3	69	20.6		n.			4							mod.	n.	overcast.
S. S. Crescent City, N. 31° 44′, W. 73° 29′ *†	30.50	774.7	56	13.3		ese.			2								ese.	clear.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.90	759.4	76	24.4	77	nnw.			1		5		nw.			sm'h	nw.	fair.
U. S. S. Pinta, Rio de Janeiro, Brazil	30.02	762.5	74	23.3	100	ne.			1		10		se.					cloudy.
H. M. S. Amethyst, S. 39° 11′, W. 61° 35′	29.80	756.9	74	23.3	81	e.			4		0					1	e.	blue sky.
H. M. S. Boadicea, Ascension Island, Africa	30.03	762.7	83	28.3		ese.			1		4		ese.					d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	29.99	761.7	74	23.3	68	se.			5-6		3		se.					squally.
S. S. Sirius, Santos, Brazil	29.97	761.2				calm			0		2		se.	5 h'r	5 h'r			clear.
S. S. Teniers, S. 7° 12′, W. 32° 44′	30.03	762.7	80.2	26.8	93	ese.			5		5 k			0	0	long	ese.	d. clouds.
Bg. Daphne, S. 4° 41′ W. 34° 46′*†	29.90	761.0	82	27.8	70	se.			3		1		se.	0	0	h'vy	se.	clear.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.10	764.5	77	25.0		nw.			2		8		calm	0	0			fair.
Bkt. Levanter, S. 29° 57′, W. 46° 57′*	29.98	761.5	84	28.9		wnw.			3		1		sw.	0	0	light	n.	clear.
S. St. David, S. 26° 55′, W. 23° 35′ *†	30.22	767.6	77	25.0	86	nnw.			4		1		n.	0	0	light	var.	clear.
S. David Stewart, Pernambuco, Brazil..†	29.83	757.7	86	30.0		se.			4		2		se.	c	0			
Bk. Godeffroy, S. 29° 20′, W. 23° 31′	30.00	762.0	73.9	23.3	93	nnw.			5		4		nnw.	rain	rain	mod.	n.	fair.
S. Oreola, S. 1° 31′, W. 27° 44′*	29.93	760.2				se.			5		1		se.	0	0	sm'h		clear.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.87	758.7	46	7.8	73	calm			0		0			0	0			clear.
U. S. S. Adams, Sitka, Alaska†	30.19	766.8	24.4	— 4.4	87	e.			2		0							clear.
U. S. S. Alert, N. 16° 30′, E. 159° 36′	29.92	760.0	76	24.4	68	ne.			3		2		ne.			mod.	nne.	cloudy.
U. S. S. Essex, Canton, China	30.04	763.0	71	21.7	80	sse.			1		5							fair.
U. S. S. Juniata, Shanghai, China	30.19	766.8	51	10.6	86	nw.			2		10			light	light			cloudy.
U. S. S. Monocacy, Shanghai, China	30.15	765.8	48	8.9	85	n.			2		10		n.					cloudy.
U. S. S. Richmond, Shanghai, China	30.18	766.6	50	10.0	93	nne.			3		10		ne.	0.2	5.			cloudy.
H. M. S. Audacious, Hong Kong, China			68	20.0	90	calm			0		2	ese.						blue sky.
H. M. S. Cleopatra, off Amoy, China			62	16.7	88	e.			1		6					sm'h		d. clouds.
H. M. S. Champion, Shanghai, China	30.24	768.1	50	10.0	86	nw.			2		10							raining.
H. P. M. S. Tamega, Macao China	30.09	764.3	68.0	20.0	86	calm			0		0			0	0			blue sky.
S. S. Newbern, N. 31° 30′, W. 116° 46′			58	14.4	69	se.			4		10		se.	light	light	sm'h	sw.	cloudy.
S. S. Oregon, San Francisco, Cal.†	29.76	755.9	49	9.4	93	calm			0		2		se.					clear.
S. S. Alameda, Honolulu, Sandwich Islands†	29.96	761.0	69	20.6	70	calm			0		0			0	0			clear.
S. S. Ancon, Point Loma, Cal†	29.98	761.5	56	13.3	87	se.			6		2?		w.	0	0	mod.	se.	overcast?
S. S. City of Chester, San Francisco, Cal.†	29.79	756.7	47	8.3	92	calm			0		10							
S. S. Orizaba, N. 37° 12′, W. (119°?) 40′†	29.83	757.7	50	10.0	86	sw.			3		1		sse.	sh'rs	sh'rs	long	s.	squally.
S. S. Queen of the Pacific, San Francisco, Cal†	29.79	756.7	48	8.9	92	ene.			1		2?		e.	3 h'r	3 h'r			cloudy.?
S. S. State of California, Portland, Oregon†	29.67	753.6	35	1.7	90	calm			0		10							raining.
S. S. City of Rio de Janeiro, N. 22° 59′, W. 175° 20′ †	29.93	760.2	67	19.4		w.			6		8?		sse.			large	nw.	clear.?
S. S. City of Sydney, N. 34° 05′, W. 129° 21′ *†	29.85	758.2	54	12.2	74	n.			6		8k;n		nnw.			h'vy	nw.	cloudy.
S. S. Granada, Panama, Panama †	29.96	761.0	74	23.3	90	nw.			1		0			0	0	light	nw.	clear.
S. S. San Blas, N. 14° 00′, W. 91° 14′ †	29.98	761.5	74	23.3	90	e.			3		4		ese.	0	0	small	sse.	clear.
S. S. Zealandia, N. 22° 27′, W. 154° 45′			73	22.8	81	ene.			6				ene.	7 h'r	7 h'r	long	ene.	squally.
Bk. Alpheus Marshall, N. 25° 39′, E. 139° 57′*†	30.03	762.7	68	20.0	84	se.			1		8		sw.	0	0	mod.	nw.	hazy.
S. S. Benalder, N. 31° —′, E. 133° 45′ *	30.01	762.2	59	15.0	76	wnw.			4-5		8		n.	0	0	mod	w.	hazy.
S. Carondelet, N. 0° 28′, E. 135° 24′ *†	29.87	758.7				w.			2		9		w.	1 h'r	1 h'r	mod.	nne.	cloudy.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 9° 59′, W. 101° 03′	30.02	762.5	76	24.4	91	ese.			4		2		e.	0	0	sm'h	se.	clear.
U. S. S. Lackawanna, S. 8° 16′, W. 80° 41′	29.96	761.0	74	23.3	90	ese.			1		8		se.			sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.06	763.5	71	21.7	90	se.			1		10		se.			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru *	30.00	762.0	68	20.0	100	se.			1		5		s.			sm'h		fair.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.94	760.5	66	18.9	79	w.			2		4					sm'h		squally.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.86	758.4	67	19.4		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	30.10	764.5	55	12.8	87	sw.			1		9							d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	28.80	731.5	52	11.1	86	calm			0		9							d. clouds.
S. S. Australia, Sydney, N. S. W.	30.18	766.6	68	20.0		e.			4		2		e.	0	0			clear.
S. S. George S. Homer, S. 53° 26′, W. 103° 57′*†	29.37	746.0				w.			5		8		wsw.	12 h'r	12 h'r	mod.	sw; w	rainy.
S. Izmir, S. 23° 05′, W. 82° 44′ *	30.30	769.6				se.			4		9		se.	0	0	long	ssw.	overcast.
S. St. Francis, S. 16° 30′, W. 98° 00′*†	30.15	765.8	73	22.8	72	se.			4		1		se.	0	0	mod.	s.	clear.
S. Grecian, S. 50° 10′, W. 109° 34′ †	29.60	751.8	55	12.8	81	w.			7		7		s.	sq 'lls	sq 'lls	r'gh	var.	squally.
S. Henry Failing, S. 52° 18′, W. 107° 18′ *†	29.49	749.0	50	10.0	79	wsw.			6		5		wsw.	0	0	long	wsw.	fair.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	29.49	749.0	57	13.9	87	sw.			3		10							raining.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, S. 14° 58′, E. 40° 51′	29.73	755.1	81	27.2	91	nw.	17	7.6			5		nw.	2.30	58.4	mod.	nw	fair.
U. S. S. Pensacola, Fenerife, Madagascar *	29.73	755.1	80	26.7	78	wsw			2		10		sw.	0.09	2.3		ese.	cloudy.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	30.00	762.0	80	26.7	82	ne.			2		2	n.				sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.94	760.5	77	25.0	91	ne.			2		5	se.						d. clouds.
H. M. S. Orontes, N. 12° 33′, E. 47° 10′	30.06	763.5	77	25.0	69	e			3		2	e.				1	e.	d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.82	757.4	79	26.1	86	sse.			1									d. clouds
S. S. Galatia, Calcutta India †	29.98	761.5	80	26.7	78	wnw.			1		0			0	0			clear.
S. S. Port Phillip, S. 25° 30′, E. 98° 52′ *	30.02	762.5	76	24.4		se.			2-3							con.		cloudy.
S. S. Radnorshire, Jebel-Zugur, Arabia *†	29.97	761.2				sse.			3		0			0	0	mod.	sse.	clear.
S. S. Lepanto, N. 18° 59′, E. 39° 20′			78	25.6		n.			1		0		n.	0	0	sm'h		fair.
H. M. S. Magpie, N. 6° 06′, E. 99° 47′	29.89	759.2	80.5	26.9	83	ne.			1		10							raining.

International Chart I. January 28, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 29. 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.39	771.9	65.1	18.4	86	e.			1		0			0	0	clear	Roziere.
Algiers			30.33	770.4	61.2	16.2	73	w.			4		0			0	0	clear	Aubert.
La Galle			30.23	767.8	63.7	17.6	80	nnw.			3		3			0	0	pretty fair	Fonfrède.
Tunis			30.21	767.2	61.9	16.6	81	nw.			4		2			0	0	fair	Delord.
Tebessa					51.8	11.0	87	n.			1		0			0	0	clear	Hans.
Geriville					64.4	18.0	28	ne.			1		0			0	0	clear	Forfert.
Laghouat			30.37	771.5	60.8	16.0	81	calm			0		0			0	0	clear	Abraham.
Biskra			30.34	770.6	64.8	18.2	78	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.22	767.6	62.9	17.2	56	se.	6	2.7			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	30.04	763.0	30.22	767.6	56	13.3	80	calm			0		10		se.	0	0	clear	Com. I. Short, R.N.
Melbourne, Victoria	30.16	766.0	30.25	768.3	56.0	13.3	76	se.	11	4.9			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.61	752.2	30.19	766.7	41.0	5.0	38	sw.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.17	740.9	29.97	761.1	35.8	2.1	87	wsw.	8.1	3.6			10			0.051	1.3		Dr. Wierzbiski
Eperies	29.05	737.9	29.97	761.3	31.3	— 0.4	83	calm			0		3 s		se.	0	0		Julius Mikolik.
Gratz	28.85	732.8	30.15	765.7	41.0	5.0	48	ene.			1		6			0	0		Andreas Rospini.
Hermannstadt	28.56	725.5	30.01	763.1	37.4	3.0	87	w			3		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.71	729.2	30.10	764.5	37.8	3.2	80	w.			1		10			0.406	10.3		The Staff.
Lemberg	28.86	733.1	29.88	759.0	36.0	2.2	82	ne.			4		10			0.008	0.2		Dr. T. Stanecki.
Pola	30.07	763.8	30.19	766.7	47.5	8.6	55	nw.			1		3			0	0		I. R. Hydrographic Office.
Szathmar	29.53	750.0	30.01	762.3	36.9	2.7	84	w.			3		1			0	0		Joseph Midlinsky, S. J
Szegedin	29.78	756.3	30.07	763.7	41.9	5.5	62	nw.			2		3			0	0		Karl Stancel.
Trieste	30.14	765.5	30.24	768.0	45.0	7.2	74	calm			0		0			0	0		Royal Academy.
Vienna	29.35	745.4	30.08	764.1	43.2	6.2	50	w.			3		3			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.26	717.8	29.66	753.3	44.2	6.8	96	sw.			2		5			0.126	3.2		
Brussels	29.67	753.5	29.87	758.7	48.2	9.0	100	wsw.			4		10		wsw.	0.043	1.1		
Furnes	29.80	757.0	29.82	757.5	50.7	10.4	95	w			1		10			0.087	2.3		
Maeseyck	29.74	755.5	29.87	758.7	43.2	6.2	89	wsw.			1		10			0.087	2.3		
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			29.53	750.0	52.5	11.4	83	sw.	40	17.9			9					overcast	John Hartnup.
Bolton, Sharples	29.03	737.3	29.57	751.1	43.0	6.1	96	ssw.					10					foggy	Thomas Mackereth.
Bradford, Yorkshire	29.12	739.6	29.52	749.8	45.5	7.5	93	sw.			4		10			0.04	1.0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.08	764.0	30.11	764.8	83	28.3	79	ne.			2		3					d. clouds	Corp'l W. I. Cull, A.H.C.
Cardington	29.62	752.3	29.74	755.4	47.0	8.3	86	w			3.0		9					overcast	John McLaren.
Chatham, School M. E.	29.63	752.6	29.82	757.4	52.7	11.5	90	w.			1		10			blank	blank	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.65	753.1	29.88	758.9	52.4	11.3	93	sw.			6		10					drizzling	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	88	31.1	66	s.			2		1					d. clouds	J. W. Smith.
Galway, Queen's College	29.32	744.7	29.36	745.7	44	6.7	84	sw.			6		10			0.35	8.9	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.35	770.9	30.41	772.4	64.8	18.2	89	nw.			3		6					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.62	752.3	29.79	756.7	53.3	11.8	83	wsw.					4					d. clouds	The Staff.
Guernsey	29.69	754.1	29.99	761.7	52.0	11.1	93	sw.			5		10					drizzling	A. Collenette, F.R.M.S.
Kew, Observatory	29.76	755.9	29.86	756.9	53.2	11.8	82	sw.	22	9.8			7					d. clouds	The Staff.
Leicester, Museum	29.41	747.0	29.67	753.6	49.8	9.9	93	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.11	764.8	30.19	766.8	60.0	15.6	57	nw.			3					0.03	0.8	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.22	767.6	30.27	768.8	70.2	21.2	70	ne.			3		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.54	750.3	29.77	756.1	52.2	11.2	88	sw.			5		10					threatening	The Staff.
Plymouth	29.79	756.7	29.87	758.7	51.6	10.9	96	sw.			6		10					drizzling	John Merrifield.
Sandwick Manse, Orkneys	29.16	740.7	29.27	743.4	35.6	2.0	95						10					snowy	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.66	753.4	29.73	755.1	42.0	5.6	87	n.			3		10					raining	W. H. Lyne.
Sheffield	29.26	743.2	29.54	750.3	50.9	10.5	82	sw.			4		1			0.24	6.1	blue sky	Rev. F. Redford, M. A.
Silloth Rectory	29.35	745.5	29.38	746.2	45.7	7.6	99	se.			3		10			0.385	9.8	raining	W. F. Cooper.
Stonyhurst, Observatory			29.56	750.8	46.9	8.3	93	sw.	14	6.3			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					52.8	11.6	90	w.			3.5		9					showery	Rev. O. H. Griffiths, F.M.S
Valencia, Observatory	29.55	750.6	29.58	751.3	52.9	11.6	86	wsw.	42	18.8			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.84	757.9	30.23	767.8	57.2	14.0	43	nw.	16.2	7.2		0	0			0.05	1.3	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B					—23.0	—30.6		sw.	5	2.2		0	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.61	777.5	30.65	778.5	—18	—27.8	100	calm	0	0			8 s		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.58	776.7	30.66	778.7	—37	—38.3	100	calm	0	0		hz.	hz.			0	0	hazy	G. A. Blair.
Cornwall, Ontario	30.12	765.0	30.34	770.6	8.8	—12.9	96	e.			1		10 n			0.300	7.6	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.58	776.7	30.63	778.0	—18.0	—27.8		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.51	774.9	30.54	775.7	—20	—28.9	68	s.	3	1.3		2 cs	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.43	747.5	30.38	771.6	— 4	—20.0	100	n.	6	2.7			10 n			0	0	dense haze	James Stewart.
Fredericton, N. B	30.62	777.7	30.70	779.8	—29.9	—34.4	100	calm	0	0			10 s			0	0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B	30.57	776.5	30.63	778.0	17	— 8.3	83	s.	8	3.6		0	8 n		s.	0	0	threatening.	J. Chipman Seeley
Granton, Ontario	29.22	742.2	30.38	771.6	29.0	— 1.7	100	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.54	775.7	30.69	779.5	— 4	—20.0	100	w.	2	0.9		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.87	758.7	30.31	769.9	28.2	— 2.1	89	ne.			1		10 n			0.500	12.7	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.96	761.0	30.32	770.1	20	— 6.7	84	calm	0	0			10 n			0.21	5.3	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.50	774.7	30.54	775.7	9.5	—12.5	89	w.	2	0.9		0	0			0	0	blue sky	C. H. Rigby.
London, Ontario	29.46	748.3	30.42	772.7	30.3	— 0.9	94	calm			0		10 ks			inap.	inap.	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.91	708.9	30.53	775.4	—10	—23.3	60	n.	1	0.4			10 n			0.02	0.5	cloudy	John Ewart.
Minnedosa, N. W. T	28.21	716.5	30.43	772.9	—13	—25.0	95	nw.	1	0.4			10 s		nw.	0	0	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	30.18	766.6	30.41	772.4	5	—15.0	91	nw.	8	3.6			10 n			0.20	5.1	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	30.11	764.8	30.36	771.1	9.1	—12.7	98	e.					10 s			0.10	2.5	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.58	751.3	30.33	770.4	19	— 7.2	87	s.	7	3.1			10 n		se.	0.05	1.3	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.54	750.3	30.34	770.6	15.6	— 9.1	76	se.			1		10 k			0.23	5.8	misty	Wm. O'Connor, M.A.
Port Arthur	29.41	747.0	30.15	765.8	26	— 3.3	96	w.	2	0.9			10 n			0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.62	752.3	30.36	771.1	28	— 2.2	88	calm	0	0		10 c	0	s.		0.24	6.1	cloudy	H. Morgan.
Port Stanley, Ontario	29.66	753.4	30.34	770.6	33	0.6	88	w.	8	3.6			10 n		w.	0.16	4.1	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.86	707.6	30.51	774.9	—18	—27.8		nw.	4	1.8		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	30.10	764.5	30.50	774.7	3	—16.1	76	n.	8	3.6			10 s		n.	0.05	1.3	light snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.84	757.9	30.35	770.9	6	—14.4	87	se.	2	0.9			10 n			0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.56	776.2	30.61	777.5	2	—16.7	100	calm	0	0		0	0			0	0	clear	
St. John, N. B	30.48	774.2	30.65	778.5	—3.0	—19.4	87	nw.	4	1.8		0	0			0	0	foggy	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			30.28	769.0	14.0	—10.0		nw.			4								The Commandant.
Saugeen, Ontario*	29.55	750.6	30.31	769.9	28	— 2.2	88	s.	4	1.8			10 s			0.20	5.1	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.99	736.3	30.34	770.6	28.1	— 2.2	86	sw.	2	0.9			10			0.200	5.1	overcast	W. Mc Bride, M. A.
Sydney, C. B*	30.52	775.2	30.59	777 0	— 3	—19.4	87	sw.	8	3.6		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.95	760.7	30.37	771.4	22	— 5.6	92	n.	1	0.4			10 n			0.25	6.3	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.24	742.7	30.37	771.4	29.1	— 1.6	94	sw.	1	0.4			10 s			0.200	5.1	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.55	776.0	30.63	778.0	4	—15.6	83	e.	9	4.0		2 cs	2 k	w.	se.	0	0	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.01	762 2	30.04	763.0	76.0	24.4	91	ne.				0	0			0	0	clear	I. Garfelt.
Cape Town, The Castle	29.81	757.2			76.0	24.4	61	se.				0	2 k			0	0		Capt.R.Gardner Warton
Springbok Fontein	27.82	706.6			81	27.2	42									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.91	759.7	29.99	761.7	66.2	19.0	88	sw.			1	10	0					cloudy	Samuel Redolez.
Iquique	29.86	758.4	29.89	759.1	68.9	20.5	88	sw.			2	6 c	0					fair	Rafael Moreno.
Niebla	29.50	749.4	29.61	752.1	63.7	17.6	82	e.			1	1 c	0	w.		0	0	fair	Federico Köhling.
Punta Caldera	29.88	759.0	29.97	761.2	70.7	21.5	75	se.			1	6 c	c	se.	se.			fair	Manuel Tobar.
Punta Corona	29.85	758.3	30.04	763.0				calm			0		10			0	0	hazy	Francisco Alvarado.
Valparaiso	29.82	757.5	29.96	761.0	63.5	17.5	93	ne.				10	0					drizzling	Paez-i-Ampuero.
Chinese *(Sub-series).*																			
Zi-Ka-Wei, near Shanghai.	30.30	769 7	30.33	770.3	37.8	3.2	71	ne.	7.4	3.3			10			0.154	3.9		M.Marc Dechevrens,S. J.
Danish.																			
Copenhagen	29.62	752.4	29.67	733.6	38.1	3.4	87	wnw.	4	2			8						Oversergent Fischer.
Fanöe	29.69	754.0	29.71	754.5	39.4	4.1	87	w.			4		3						Overloerer Lauridsen.
Godthaab, Greenland	29.54	750.2	29.58	751.3	3.2	—16.0	100	ne.			4		4						S. Kleinschmidt.
Stykkisholm, Iceland	29.47	748.5	29.51	749.6	23.4	— 4.8	88	ne.			6		0						A. O. Thorlacius.
Thorshavn	29.24	742.7	29.26	743.3	29.8	— 1.2	67	ne.	7	3			7						Overloerer Bergh.
Vestervig	29.49	749.0	29.58	751.4	40.0	4.4	73	wsw.			6		5						Loerer Oesterhol.
Egyptian.																			
Cairo	29.69	754.1			60.8	16		w.	6.7	3.0		4 cs	0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.76	756.0	30.41	772.5	57.2	14	86	wnw.			2		n;nk	nw.	nw.	0.094	2.4		M. Labroue, Director.
Alençon, Normal School	29.55	750.5	30.10	764.5	53.2	11.8	95	sw.			4		10 n			0.165	4.2	covered	M. Nicot, Director.
Arras, Normal School			29.96	761.0	52.7	11.5	86	ssw.			4		5	sw.	ssw.	0.177	4.5	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.22	767.7	30.30	769.7	55.8	13.2	43	nnw.			1		0			0	0		M. Giraud, Director.
Bar-sur-Seine	29.56	750.9	30.13	765.2	50.5	10.3	97	wsw.			1		10		w.	0.059	1.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.74	755.4	30.01	762.2	54.0	12.2	86	sw.			1		10		w.	0.043	1.1	raining	M. Frère Eugène Marie.
Besançon, Normal School	29.22	742.3	30.13	765.3	50.5	10.3	86	s.			1		10 n		n.			raining	M. Gobin, Director.
Bordeaux, Observatory	30.07	763.8	30.34	770.5	56.3	13.5	84	w.			1		10			0.150	3.8	covered	M. Rayet, Director.
Bourges, Normal School	29.62	752.4	30.18	766.5	54.7	12.6	88	w.			6		n		w.	0.150	3.8		M. Sauvageot, Director.
Brest, Naval Observatory	29.87	758.6	30.11	764.7	52.9	11.6	97	sw.			8		10		sw.	1.260	32.0	raining	M. de Kermarée, Dir.
Caen, Normal School	29.92	759.9	29.99	761.8	57.2	14	100	w.			2		5		w.	0.16	4.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.69	754.1	30.01	762.3	58.8	14.9	67	sw.			4		8	nw.	w.	0.205	5.2	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.44	747.8	29.96	761.0	49.3	9.6	79	w.			1					0.16	4.		M. Noël, Director.
Clermont-Ferrand Obs'y	28 86	733 1	30.23	767.8	54.3	12.4	81	se.			1		10		w.	0.051	1.3		M. Allnard, Director.
Cluny, Normal School	29.36	745.8	30.22	767.7	54.5	12.5	82	wnw.			1		9		nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.20	741.6	30.06	763 6	49.3	9.6	97	w.			4		10 n	w.	w.	0.059	1.5	covered	Dr. Coulet, Director.
Gap, Normal School	27.68	703.0	30.29	769.3	42.8	6.0	48	calm			0		2			0.591	15.0		M. Jarach, Director.
Grenasque, du Rhone	29.12	739.6	30.26	768 6	54.1	12.3	70	nw.			4		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.54	750.4	30.35	770 9	42.4	5.8	97	se.			1		kn			0.12	3.		M. Ablard, Director.
Guéret, Normal School	28.42	721.9	30.01	762.2	46.4	8	97	w.			6		n		ne.	1.240	31.5		M. Delorme, Dir.
Lamballe, Normal School.																			M. Poilpre, Director
Lescar, Normal School	29.80	756.9	30.37	771.4	58.1	14.5	73	w.			1		8 k		ne.	0.055	1.4	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.03	762 7	30.13	765.3	55.4	13.0	78	sw.			8		10		sw.	0.055	1.4	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.21	742 0	30.30	769.6	46.0	7.8	83	s.			1		10 n			0.035	0.9	raining	M. André, Director.
Mans, Normal School	29.82	757.5	30.13	765 4	52.7	11.5		w.			1		10			0.098	2.5	raining	M. Richard, Director.
Marseille, Observatory	29.99	761 8	30.26	768.7	56.3	13.5	56	wnw.			4		1		wnw.	0	0		M. Stephan, Director.
Montlouis	25.06	636.6	29.91	759.6	49.1	9.5	32	sw.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.15	765.9	30.26	768.7	61.9	16.6	81	w.			2		5		sse.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.26	743.2	30.05	763.3	48.9	9.4	92	ssw.			1		kn		sw.	0.106	2.7		M. Hasse, Director.
Nantes, Observatory	30.05	763.3	30.21	767.4	54.5	12.5	89	wsw.			1–4		10 n		wsw.	0.177	4.5		M. Larocque, Director.
Perpignan, Observatory	30.22	767.7	30.34	770.5	64.8	18.2	52	nw.	16.8	7.5			8		n.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.44	544 5			31.3	— 0.4		nw.			2		5		nw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.22	742.1	30.32	770.2	50.0	10	72	w.			1		n		w.	0	0		M. Tailleu.
Puy de Dôme Obs'y, Summit	24 26	641.6			39.2	4.0	100	w.			8		10			0.433	11.0	foggy	M. Allnard.
Rochefort, Naval Obs'y	30.25	768.3	30.28	769.1	55.4	13.0	93	sw.			4				wsw.	0.04	1.	foggy	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.98	761.6	30.20	767.1	55.6	13.1	84	sw.			2		5		ne.	0.165	4.2	cloudy	M. Brotier, Director.
Rodez, Normal School	28.19	715 9	30.37	771.4	49.5	9.7		nw.			1		10			0.134	3.4	rainy	M. Seger, Director.
Rouen, Normal School	29.97	761.1	30.01	762.3	56.5	13.0	82	w.			1		5	w.		0.244	6.2	cloudy	M. Mouillot, Dir.
St. Lô, Normal School			29.93	760.3	54.0	12.2	88	wsw.			4		10	w.	sw.	0.126	3.2	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.89	759.3	30.06	763.5	54.5	12.5	88	wsw.			1		8		w.	0.039	1.0	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.64	752.9	30.37	771.5	57.7	14.3	78	nw.			1		10	nw.		0.075	1.9	covered	M. Baillaud, Director.
Tours	29.99	761.7	30.17	766.2	55.8	13.2	86	sw.			2		8	w.	wsw.	0.075	1.9	very cloudy	M. de Tastes.
Versailles, Observatory	29.56	750 8	30.05	763.3	53.6	12.0	87	w.			2		10			0.059	1.5	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.24	768.2	30.39	772.0	57.6	14.2	84	sw.	2.0	0.9			9 nk		sw.	0.177	4.5		M. Cartier, Director.
German.																			
Ansbach	28.56	725.5	30.07	763 8	36.1	2.3	88	sw.			2		10	sw.		0.055	1.4		Prof. Jnedt.
Bamberg	29 16	740.7	30.00	762.1	37.9	3.3	77	w.			1		10			0.116	3.0	raining	Prof. Dr. Hoh.
Berlin	29.74	755.5	29.89	759.3	40.6	4.8	65	w.			3		8			0.031	0.8		Meteorological Institute
Breslau	29.41	746.9	29.93	760.3	38.8	3.8	69	w.			4		5			0.047	1.2		Royal University Obs'y
Carlsruhe	29.57	751.0	30.04	762.9	43.5	6.4	93	sw.			3		10	sw.		0.142	3.6	raining	Albert Senz.
Cassel	29.20	741.7	29.91	759 8	38.3	3.5	87	s.			4		8	s.		0.071	1.8		Dr. H. Möhl.
Frankfort-on-the-Main	29.61	752.1	29.98	761.6	40.3	4.0	92	sw.			1		10			0.051	1.3		Physical Society.
Friedrichshafen	28.68	728.5	30.15	765.7	39.2	4.0	90	wsw.			2		10	w.		0.102	2.0	raining	Wilhelm, Chief Tel.
Hamburg	29.75	755.6	29.84	757.9	38.5	3.6	88	sw.			4		8	w.		0.028	0.7	squally	E. Preller.
Kiel	29.70	754.3	29.71	754.7	39.4	4.1	84	wsw.			2		5			0.102	2.0		Prof. Dr.G. Karsten.
Leipsic, Astron'l Obs'y	29.53	750.0	29.96	761.0	41.0	5.0	69	w.			3		7	nw.		0.039	1.0		H. Leppig, Asst.
Magdeburg	29.72	754.8	29.91	759.7	42.1	5.6	67	wsw.			2		7			0.003	1.6		Weather Observatory.
Memel	29.55	750.6	29.60	751.8	36.3	2.4	74	wnw.			5		3 k						Issermann.
Munich	28.22	716.9	30.09	764.3	35.1	1.7	91	sw.			2		10			0.094	2.4	rain & snow	Central Station.
Neufahrwasser	29.67	753.7	29.69	754.1	38.8	3.8	73	w.			5		5			0.098	2.5		A. Lothes.
Neustadt, Palatinate	29.46	748.3	29.98	761.6	41.4	5.2	94	s.			1		10			0.185	4.7	raining	Dicknether.
Stuttgart	29.06	738.1	29.98	761.4	40.5	4.7	65	w.			1		10			0.051	1.3		Prof. Dr. Schoder.
Wustrow	29.73	755.1	29.75	755.7	38.3	3.5	98	sw.			3		5 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.41	747 0	29.80	757.0	49.8	9.9		n.			1.5		10			0	0	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.99	761.8	30.04	763.1	67.1	19.5	59	sw.	17.0	7.6			2			0	0	d. clouds	
Deesa	29.51	749.6	30.00	761.9	70.9	21.0	15	nnw.	12.0	5.4			0			0	0	blue sky	
Bombay	29.94	760.4	29.98	761.4	74.0	23.3	54	nnw.	18.0	8.0			0			0	0	blue sky	
Poona, Yarrowda	28.06	712.8	29.92	760.1	78.8	26.0	32	nw.	9.0	4.0			0			0	0	blue sky	
Belgaum	27.38	695.5	29.91	759.8	77.8	25.4	42	sw.	4.0	1.8			0			0	0	blue sky	
Lahore	29.28	743.8	30.06	763.6	58.6	14.8	48	nw.	2.0	0.9			3			0	0	d. clouds	
Roorkee	29.06	738 0	29.99	761.8	61.8	16.6	56	calm	4.0	1.8			8	s.		0	0	d. clouds	
Agra	29.40	746.7	29.98	761.4	71.7	22.1	25	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.89	733 9	29.94	760.5	79.3	26.3	39	calm	0	0			2	w.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.58	726.0	29.95	760.8	75.8	24.3	33	calm	1.4	0.6			6			0	0	d. clouds	
Lucknow	29.57	751.2	29.96	761.0	72.2	22.3	33	sse.	2.0	0.9			0			0	0	blue sky	
Allahabad	29.62	752.3	29.94	760.5	72.0	22.2	53	calm	0	0			5	sw.		0	0	d. clouds	
Patna	29.75	755.6	29.94	760.4	73.7	23.2	51	wnw.	2.2	1.0			2	wnw.	wnw.	0	0		
Hazaribagh	27.91	709.0	29.96	760.9	70.6	21.4	38	calm	0	0			0			0	0	blue sky	
Cuttack	29.86	758.5	29.94	760.6	77.2	25.1	54	nnw.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	29.92	759.0	29.94	760.5	70.7	21.5	58	wnw.	0.5	0.2			0			0	0	blue sky	
Dhubri	29.82	757.4	29.94	760.5	68.7	20.4	61	calm	1.2	0.5			0			0	0	blue sky	
Chittagong	29.88	758.8	29.97	761.2	69.1	20.6	70	calm	2.9	1.3			0			0	0	misty	
Sibsagar	29.63	752.6	29.98	761.5	62.7	17.1	80	n.	1.0	0.4			8	w.	w.	0	0	d. clouds	
Jeypore	28.53	724.5	30.02	762.4	65.7	18.7	30	nw.	7.3	3.3			0			0	0	blue sky	
Zanzibar	29.82	757.3	29.84	757.9	84.1	28.9	59	ene.	11.0	4.9			2			0	0	d. clouds	
Bellary	28.44	722.4			83.0	28.3	30	e.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.66	753.4			84.9	29.4	39	calm	0	0		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.79	756.6	30.21	767.4	42.3	5.7	65	ne.	0.7	0.3			7			0	0		Prof. Giovanni Olodig.
Milan	29.67	753.6	30.21	767.3	45.0	7.2	42	se.	2.5	1.1			7			0.608	0.2		Prof. G. V. Schiapparelli
Padua	30.08	763.9	30.19	766.8	42.8	6.0	67	se.	0.7	0.3			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.26	743.1	30.20	767.0	43.3	6.3	52	se.	2.5	1.1			0			0	0		Prof. F. F. Denza.
Genoa	29.98	761.4	30.17	766.4	54.5	12.5	47	se.	8.1	3.6			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.15	765.9	30.21	767.2	48.7	9.3	60	w.	2.5	1.1			10	ne.		0.098	2.5		Prof. Luigi Guidi.
Florence	29.96	760.9	30.22	767.6	44.6	7.0	59	ne.			2		0			0	0		Prof. Costantino Pittel.
Leghorn	30.07	763.8	30.16	766.0	53.8	12.1	71	ssw.	2.5	1.1			3			0	0		Prof. P. Monte.
Rome	30.08	764.0	30.26	768.5	50.5	10.3	36	nne.	0	0			0			0	0		Prof. P. Tacchini.
Lecce	29.85	758.1	30.11	764.7	49.0	9.8	38	nnw.	21.0	9.4			4	nnw.		0.205	5.2		Prof. C. de Giorgi.
Cosenza	29.26	743.3	30.19	766.7	47.5	8.6	73	wnw.	3.1	1.4			1	se.		0.102	2.6		Prof. D. Conti.
Cagliari	30.07	763.8	30.27	768.8	59.9	15.5	62	nw.			6		5			0	0		Prof. A. Pacinotti.
Palermo	30.02	762.6	30.28	769.1	56.1	13.4	52	nnw.	9.4	4.2			0			0	0		Prof. G. Caccialore
Syracuse	30.05	763.3	30.10	764.5	57.2	14.0	43	wnw.	11.2	5.0			3	w.		0.608	0.2		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.72	755.0	30.26	768.7	51.6	10.9	35	wnw.	5.6	2.5			0			0.346	8.8		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.90	759.3	29.93	760.2	24.8	−4.0	95	nw.			6*		10 n		nw.	0.126	3.2	snowing	H. Hattori.
Awomori	29.78	756.4	29.82	757.4	20.1	−6.6	83	w	7.9	3.5		0	1 s			0.274	7.0	clear	K. Ogawa.
Hakodate	29.81	757.1	29.82	757.4	24.2	−4.3	74	n.	27.0	12.1		0	3 s			0	0	clear	Y. Souma.
Hamamatsu	29.86	758.4	29.96	760.9	38.4	3.0	50	nw.			6	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.18	766.7	30.20	767.1	37.6	3.1	71	e.	7.8	3.5		0	8 ok		n.	0	0	cloudy	Y. Okamoto.
Kagoshima	30.13	765.2	30.14	765.5	40.9	4.9	68	ne.			2	0	1 s			0	0	clear	
Kanazawa	30.05	763.1	30.15	765.9	30.3	−0.9	79	w	8.8	3.9			9s;ks			0.200	5.1	cloudy	S. Endo.
Kioto	29.97	761.2	30.14	765.6	31.2	1.2	78	nnw.	17.8	8.0		0	2 s			0.024	0.6	clear	M. Tojima.
Kochi	30.10	764.4	30.12	764.9	42.4	5.8	67	nnw.	15.9	7.1		0	4 s			0	0	fair	K. Kusunose.
Miasaka	30.10	764.4	30.12	765.1	41.1	5.1	83	wnw.			1	0	0			0	0	clear	K. Masusaki.
Miyako	29.68	753.9	29.79	756.7	25.8	−3.4	47	wsw.	7.5	3.3		0	0			0	0	clear	N. Hosno & K. Suwa.
Nagasaki, I. M. Obs'y	29.97	761.2	30.19	766.8	37.1	2.8	73	ne.	1.8	0.8		0	0			0	0	clear	
Nemuro	29.62	752.3	29.67	753.6	24.0	−4.4	73	nw.	24.0	10.7			10 n					snowing	A. Shibuya.
Niigata	29.98	761.5	30.02	762.5	30.6	−0.8	70	nw.	9.1	4.0			10 n		n.	0.270	6.9	light snow	Satoo & Tomikawa.
Nobiru	29.89	759.1	29.90	759.5	27.0	−2.8	58	nw.	10.0	4.5		0	0			0	0	clear	Yoshino & Midsushina.
Numadzu	29.80	756.9	29.83	757.7	41.0	5.0	68	ese.			2	0	1 s			0	0	clear	T. Ohgi.
Osaka	30.13	765.4	30.15	765.8	34.5	1.4	70	ne.	15.8	7.1		0	0			0	0	clear	H. Omura.
Sakai	30.30	769.5	30.31	769.7	35.2	1.8	61	sw.			2		10 n		nw.	0.020	0.5	snowing	Yamawchi & Sakamoto.
Sapporo	29.76	755.9	29.83	757.6	21.0	−6.1	48	nw.	11.4	5.1			9 ns		nw.	0	0	overcast	S. Kimura.
Shimonoseki	30.04	762.9	30.18	766.6	39.1	3.9	52	ne.			1	0	6 s			0.008	0.2	fair	S. Sakano.
Tokei Obs'y, Yeddo	29.82	757.5	29.90	759.4	37.1	2.8	49	nne.	18.1	8.0		0	2ks;s			0	0	fair	The Staff.
Wakayama	30.09	764.3	30.15	765.7	36.8	2.7	66	nw.	12.7	5.7		0	0			0.004	0.1	clear	K. akai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.58	751.3	29.77	756.1	81.9	27.7	53	wsw.	15.0	6.7		1 cs	2k;ks			0	0	fair	The Staff.
MEXICAN.																			
Leon	24.45	621.0	30.33	770.4	44.6	7.0	85	calm	0	0		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.86	758.3	30.12	765.0	66.0	18.9	74	nnw.	5.3	2.3		1 cs	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.83	757.6	29.83	757.6	43.9	6.6		sw.			4					0.020	0.5		
Groningen	29.82	757.4	29.87	758.8	39.0	3.9		sw.								0.047	1.2		
Helder	29.80	756.9	29.80	756.9	41.4	5.2		s.			3					0	0		
Hellevoetsluis	29.82	757.5	29.82	757.5	45.9	7.7	96	s.			2					0.004	0.1		
Utrecht	29.80	756.9	29.85	758.3	41.2	5.1	95	sw.			2		10			0.004	0.1	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.6			80.1	26.7	82	wnw.	0	0			5			0.126	3.2		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.35	745.4	29.41	747.0	35.6	2.0	71	ssw.	9	4			6			0.063	1.6		
Brono	28.88	733.6	28.92	734.6	30.3	2.4	89	ssw.			6		8			0.091	2.3	raining	
Christiania	29.22	742.2	29.37	746.0	35.4	1.9	44	w.	18	8			0			0	0		
Gjæsvær	29.27	743.5	29.30	744.1	27.1	−2.7		ne.			7		10			0.268	6.8		
Lodingen	28.95	735.3	29.00	736.5	33.8	1.0	79	ene.			3		8			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.34	770.5	30.43	772.8	63.0	17.2	67	se.	3.8	1.7			1	ne.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.16	766.0	30.50	774.7	50.5	13.0	70	s.	1.3	0.6			10			0.028	0.7		The Staff.
Ponta Delgada, Azores	30.00	762.0	30.07	763.8	62.6	17.0	90	sw.	25.5	11.4			10			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.06	763.6	30.10	764.5	70.9	21.6	86	nne.			2		2			0	0		
San Salvador, Congo	28.11	714.1	29.92	759.9	86.5	30.3	55	s.			1		2	ne.		0	0		
Serra da Estrella	25.60	650.3	30.49	774.4	39.4	4.1	98	ssw.			2		10			0.339	8.6	foggy	
RUSSIAN.																			
Akmolinski	29.34	745.3	30.53	775.4	14.4	−9.8	61	e.	13	6		5 cs	0			0	0		Major K. Lasarew.
Archangel	29.47	748.5	29.49	749.0	28.6	−1.9	94	s.	4	2			10			0	0		Capt. Sselliwerstow
Ashuruda	30.06	763.5	29.97	761.1	52.9	11.6	82	nnw.	7	3			9			0	0	light clouds	
Astrakhan	30.19	766.9	30.11	764.9	30.7	−0.7	92	ese.	10	7			10 n					hvy. clouds	Capt. Wisganow.
Baku	30.05	763.3	30.00	762.1	45.3	7.4	72	s.	13	6		0	8 ks			0	0		
Barnaul	30.14	765.6	30.71	780.1	−6.2	−17.9	72	w.	4	2			3			0	0		Meteorological Office.
Bielosersk	29.16	740.7	29.65	753.0	25.9	−3.4	96	se.	7	3			10 s			0.016	0.4		
Dorpat	29.11	739.4	29.30	745.7	33.8	1.0	81	s.	11	5			10ks;n			0.055	1.4		Observatory.
Ekaterinburg	29.30	744.3	30.34	770.6	20.3	−6.5	97	sse.	9	4			10 n			0	0		Meteorological Obs'y.
Elissawetgrad	29.35	745.5	29.82	757.4	32.2	0.1	92	calm	0	0			10 n			0	0		
Kasan	29.77	756.2	30.06	763.5	20.3	−6.5	95	sse.	16	7			10			0	0		Observatory.
Kem	29.38	746.2	29.43	747.5	29.8	−1.2	92	se.	18	8			10 ks			0	0	h'vy clouds	
Kertch	29.72	755.0	29.75	755.6	46.2	7.9	88	calm	0	0			10 n			0	0		Lagorio & Sastyrez.
Kieff	29.10	739.0	29.75	755.7	33.8	1.0	82	wnw.	9	4		0	3 ks			0.008	0.2		Observatory.
Koslov	29.23	742.4	29.75	755.6	31.0	1.1	94	ssw.	13	6			10 s			0.362	9.2		
Lgov	29.16	740.6	29.76	755.9	33.3	0.7	92	calm	0	0			10			0	0		R. I. Ssaweljew, Engin'r.
Libau	29.43	747.6	29.46	748.2	36.9	2.7	70	w.	18	8			2			0.008	0.2		E. Quass.
Lugan	29.61	752.2	29.83	757.6	36.5	2.5	84	sse.	9	4			10			0	0		Meteorological Obs'y
Moscow	29.17	740.8	29.66	753.3	32.7	0.4	93	s.	4	2			10 s			0.004	0.1		Meteorological Obs'y
Nertschinsk	28.01	711.5	30.70	779.8	−20.0	−28.9	87	calm	0	0			0			0	0		

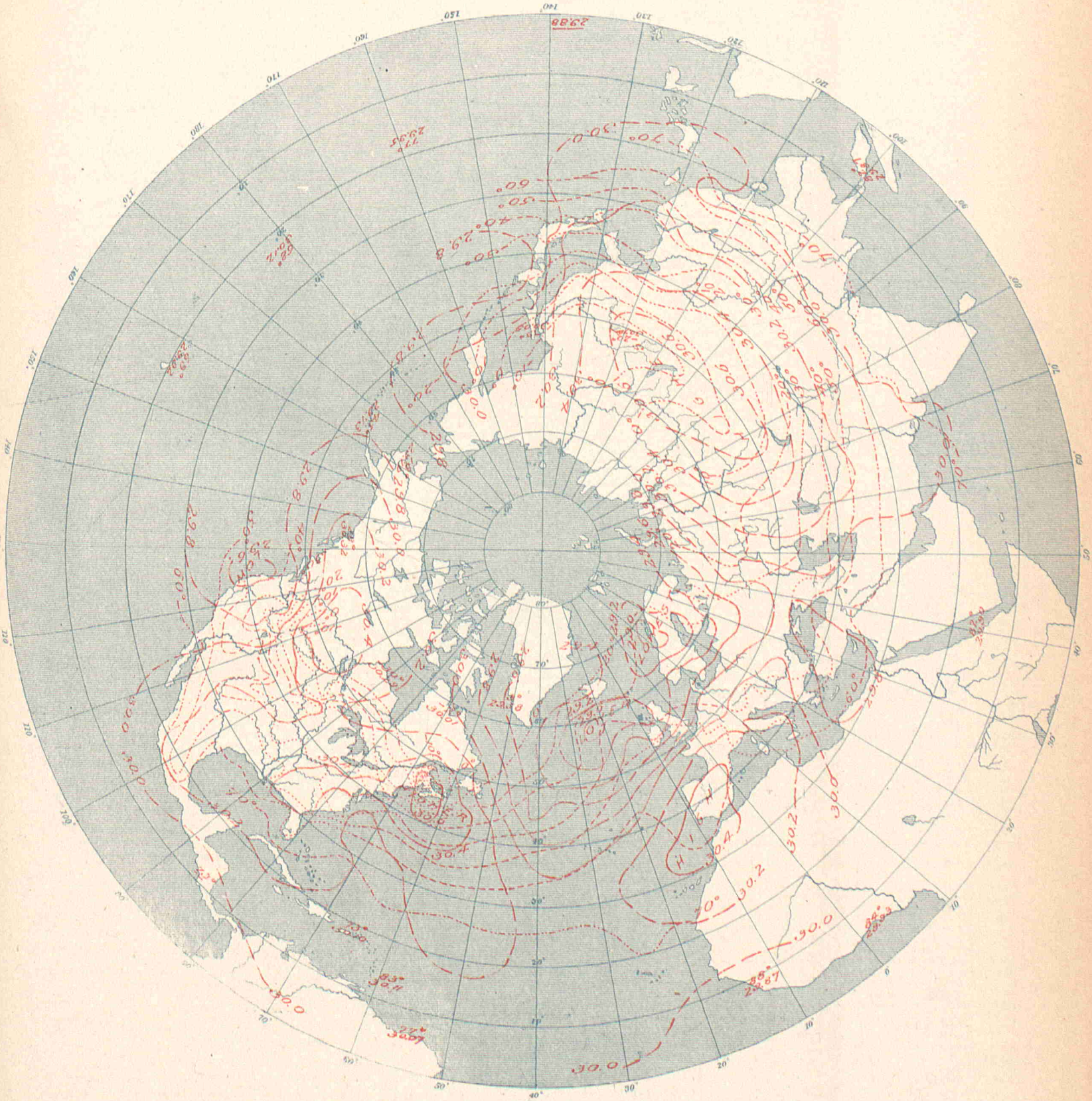
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaiev	29.78	756.3	29.85	758.1	33.4	0.8	96	calm	0	0			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.	29.96	761.0	30.05	763.3	— 9.4	—23.0	80	w.	4	2			10 n					light snow..	Iwanow.
Pekin, China	30.21	767.2	30.35	770.8	29.8	— 1.2	52	s.	2.2	1.0		0	6 k			0	0		Physical Observatory
Petro-Alexandrovsk	29.88	759.0	30.25	768.3	38.7	3.7	73	calm	0	0			9 ks						
Petrozavodsk	29.28	743.7	29.48	748.9	30.6	— 0.8	75	s.	16	7			9 k			0	0		Dr. Bergmann.
Pinsk	29.22	742.3	29.74	755.3	35.2	1.8	78	sw.	9	4			10 s			0	0		
Poti	29.86	758.4	29.89	759.2	55.8	13.2	64	e.	7	3		0	0			0	0		
St. Petersburg	29.41	747.1	29.44	747.7	29.7	— 1.3	86	s.	13	6			10 n			0	0		Central Physical Obs'y.
Samarkand	27.70	703.5	30.24	768.2	41.5	5.3	72	calm	0	0		0	3 k						
Semipalatinsk	30.03	762.8	30.78	781.8	0.5	—17.5	84	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.51	749.5	29.72	755.0	46.8	8.2	96	n.	7	3			10 n			0.122	3.1		
Staroi Bykhov	29.09	738.8	29.66	753.4	32.5	0.3	94	sw.	13	6			10			0.118	3.0		
Tashkend, Laboratory	28.54	725.0	30.28	769.2	39.2	4.0	87	calm	0	0		0	4 k						Torch, A. M
Tiflis	28.54	725.0	29.99	761.8	42.6	5.9	60	se.	4	2		0	0			0	0		Physical Observatory.
Vernoe	27.63	701.9	30.32	770.1	21.2	— 6.0	72	calm	0	0			10 n						
Viatka	29.36	745.7	30.04	762.9	16.2	— 8.8	100	s.	13	6			10			0.094	2.4		
Vladivostock	30.32	770.2	30.39	771.9	0.5	—17.5	70	nne.	13	6		0	0			0	0		
Warsaw	29.39	746.5	29.83	757.6	35.2	1.8	84	w.	18	8		0	8 kn			0.020	0.5	h'vy clouds	Astronomical Obs'y.
Yeniseisk	30.33	770.4	30.65	778.5	9.0	—12.8	85	w.	4	2			10			0.039	1.0	snowing	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.03	737.3	29.59	751.6	33.8	1.0	90	calm	0	0			10 n		s.	0.03	0.8	mowing	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.21	767.4	30.32	770.2	62.1	16.7	67	sw.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.32	770.2	30.38	771.7	60.8	16.0	88	se.	0.9	0.4			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.43	696.7	30.48	774.3	48.6	9.2	71	sw.	2.5	1.1			9			0	0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	28.21	716.6	30.52	775.1	49.3	9.6	93	n.	2.5	1.1			10			0.012	0.3	covered	The Staff.
Murcia, Met. Obs'y	30.22	767.7	30.35	770.8	68.7	20.4	68	wsw.	3.4	1.5		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.41	746.9	30.32	770.1	52.5	11.4	91	ssw.	17.4	7.8			10			0.177	4.5	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.17	766.2	30.23	767.9	72.5	22.5	71	ne.	12.3	5.5		0	4 k		e.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.94	760.5	30.00	762.0	75.0	23.9	88	se.	2.2	1.0		0	6 ks			0.020	0.5	foggy	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.35	770.9	30.45	773.5	55.0	12.8	93	ne.	2.8	1.3		1	8	nw.	nw.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	30.01	762.2	30.10	764.5	73.0	22.8	77	calm	0	0		4 cs	3 k	se.	se.	0.154	3.9	d. clouds	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.14	740.7	29.18	741.1	28.8	— 1.8	96	se.			2		10			0.441	11.2		
Umea	29.02	737.1	29.07	738.4	31.6	— 0.2	89	w.			2		2			0	0		
Hernosand	29.04	737.7	29.10	739.0	33.8	1.0	75	calm			0		0			0.051	1.3		
Stockholm	29.10	739.2	29.28	743.7	33.1	0.6	57	w.			7		10			0.016	0.4		
Wisby	29.33	745.0	29.39	746.5	36.3	2.4	57	w.			7		0			0.035	0.9		
Sub-series																			
Upsala	29.16	740.6	29.24	742.8	32.2	0.1	71	w.	6.9	3.1			10		nw.	0	0		H. H. Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			29.75	755.7	41.4	5.2	90	nnw.	20	9.0			10		n.	1.339	34.0		The Observatory.
Valona			30.05	763.2	52.9	11.6		nw.			2		2			0.20	5.1	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.81	757.1	59.9	15.5	57	sw.			2	cs	7 n		sw.	0	0		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.39	771.9	30.48	774.2	24	— 4.4	73	e.	4	1.8			10 n			0.26	6.6	light snow	J. O. Barnes.
Alpena, Michigan	29.61	752.1	30.32	770.1	29	— 1.7	77	sw.	3	1.3			10 s			inap.	inap.	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.97	634.2	30.09	764.3	47.2	8.4	48	sw.	12	5.4		0	4 s		w.	0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.35	694.7	30.39	771.9	— 8.0	—22.2	61	nw.	8	3.6			10 n		nw.	0.01	0.3	light rain	F. Newman.
Atlanta, Georgia	29.20	741.7	30.43	772.9	46.4	8.0	94	nw.	9	4.0		0	9 ks		n.	0.03	0.8	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.28	769.1	30.29	769.4	36.0	2.2	89	n.	9	4.0			10 n			0.67	17.0	light rain	B. A. Blundon.
Augusta, Georgia	30.24	768.1	30.44	773.2	47.5	8.6	89	w.	3	1.3			10 s			0.10	2.5	cloudy	W. J. Evans.
Baltimore, Maryland	30.36	771.1	30.41	772.4	38.0	3.3	82	n.	6	2.7			10 s			0.03	0.8	cloudy	Geo. W Felger.
Barnegat City, New Jersey	30.31	769.9	30.33	770.4	35.5	1.9	100	ne.	16	7.2			10n; fg			0.19	4.8	light rain	F. L. Johnson.
Bennett, Fort, Dakota	28.54	724.9	30.28	769.1	6.4	—14.2	86	n.	5	2.2			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.42	696.5	30.40	772.1	—14.5	—25.8	52	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.35	720.1	30.35	770.9	3.5	—15.8	87	n.	6	2.7			10 s		nw.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.40	772.1	30.43	772.9	30.5	— 0.8	94	e.	22	9.8			10 n			0.16	4.1	light snow	J. T. Elker.
Boise City, Idaho	26.88	682.7	29.81	757.2	12	—11.1	91	e.	8	3.6			10 s			0.08	2.0	cloudy	James Kenealy.
Boston, Massachusetts	30.33	770.4	30.50	774.7	16.5	— 8.6	91	nw.	8	3.6			10 s		ne.	0.10	2.5	cloudy	O. B. Cole.
Brownsville, Texas	30.19	766.8	30.25	768.3	67.0	19.4	93	e.	9	4.0			fg.			0	0	dense fog	John McGlone.
Buffalo, New York	29.58	751.3	30.37	771.4	28	— 2.2	88	sw.	4	1.8			10 s			0.19	4.8	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.21	716.5	30.44	773.2	— 7.4	—21.9	84	n.	7	3.1			10 n			inap.	inap.	light snow	A. Schneider.
Cairo, Illinois	29.95	760.7	30.37	771.4	41.3	5.2	98	sw.	2	0.9			fg.			0.01	0.3	dense fog	W. H. Ray.
Canby, Fort, Washington Ter	29.42	747.3	29.62	752.3	39.9	4.4	78	n.	2	0.9		0	5 s			0	0	fair	J. H. Young.
Cape Henry, Virginia	30.34	770.6	30.36	771.1	33.0	0.6	100	nw.	20	8.9			10 s			0.74	18.8	cloudy	A. K. Alderson.
Cape May, New Jersey	30.27	768.8	30.30	769.6	33.5	0.8	100	nw.	21	9.4			10 n			0.23	5.8	light rain	W. E. Smith.
Cape Mendocino, California	28.86	733.0	29.56	750.8	38	3.3	94	se.			6		10 n			0.26	6.6	light rain	A. P. Leavitt.
Cedar Keys, Florida	30.37	771.4	30.39	771.9	60.0	15.6	98	n.	7	3.1			10 s		nw.	inap.	inap.	cloudy	G. W. Davis.
Charleston, S. Carolina	30.32	770.1	30.38	771.6	45.0	7.2	93	nw.	5	2.2			10s; fg			0.02	0.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.50	749.3	30.39	771.9	40.0	4.4	95	w.	2	0.9			fg.			0.20	5.1	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.59	751.6	30.45	773.4	45.5	7.5	93	calm	0	0			3ks; fg		nw.	0.01	0.3	dense fog	B. L. Goulding.
Cheyenne, Wyoming	23.89	606.8	30.16	766.1	34.1	1.2	40	w.	3	1.3		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.60	751.8	30.34	770.6	37.1	2.8	86	sw.	5	2.2			10 s			0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.29	769.4	30.31	769.9	32.6	0.3	100	nw.	16	7.2			10s; fg		n.	0.26	6.6	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.74	755.4	30.43	772.9	42.3	5.7	86	sw.	2	0.9			10 s		sw.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.60	751.8	30.38	771.6	35.0	1.7	89	w.	4	1.8			10 s		w.	inap.	inap.	cloudy	W. Line.
Columbus, Ohio	29.53	750.0	30.43	772.9	36.3	2.4	81	sw.	3	1.3			10 s			0.01	0.3	cloudy	F. T. Williams.
Concho, Fort, Texas	28.23	717.0	30.25	768.3	57.9	14.4	93	s.	12	5.4		0	1 s		s.	0	0	clear	C. E. King.
Custer, Fort, Montana	26.82	681.2	30.20	767.1	1	—17.2	100	n.	8	3.6			10 n			0.02	0.5	light snow	W. J. Daily.
Davenport, Iowa	29.53	750.0	30.24	768.1	36	2.2	82	s.	6	2.7			10 n			inap.	inap.	light rain	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	30.27	768.8	44.2	6.8	70	se.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	27.97	710.4	29.78	756.4	29.7	— 1.3	94	w.	1	0.4			fg.			0	0	dense fog	H. S. Blandford.
Deadwood, Dakota	25.22	640.6	30.17	766.3	10.0	—12.2	80	ne.	14	6.3		0	0			0	0	clear	G. Kingsbury.
Delaware Breakwater, Del.	30.33	770.4	30.35	770.9	32.9	0.5	100	nw.	21	9.4			10n; fg		nw.	0.26	6.6	light rain	G. A. Martin.
Denver, Colorado	24.72	627.9	30.24	768.1	43.3	6.3	31	s.	4	1.5		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.24	742.7	30.21	767.3	34	1.1	89	s.	5	2.2			10 s		s.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.64	752.8	30.40	772.1	40.0	4.4	82	calm	0	0			10 s			0.15	3.8	cloudy	N. B. Conger.
Dodge City, Kansas	27.41	696.2	30.16	766.1	40.5	4.7	54	sw.	6	2.7		2 cs	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.52	749.8	30.29	769.4	35.8	2.1	74	s.	5	2.2			10 s			0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.41	747.0	30.22	767.6	31.0	— 0.6	88	w.	4	1.8			10 s			0.01	0.3	cloudy	E. R. Brace.
Eastport, Maine	30.54	777.5	30.61	777.5	11.0	—11.7	80	n	4	1.8		0	8 s		sw.	0	0	cloudy	D. C. Murphy
Elliott, Fort, Texas	27.33	694.2	30.26	768.6	45.3	7.4	93	sw.	11	4.9			10 s			0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.33	668.8	30.21	767.3	37.8	3.2	64	calm	0	0		0	4 s		nw.	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.61	752.1	30.38	771.6	35.0	1.7	94	sw.	6	2.7			10 s			0.04	1.0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.56	750.8	30.28	769.1	29.6	— 1.3	83	s.	4	1.8			10 s			0.01	0.3	cloudy	L. M. Pindell.
Fort Smith, Arkansas	29.78	756.4	30.28	769.1	39.0	3.9	89	e.	4	1.8			10 s		sw.	0	0	cloudy	J. B. Campbell.
Galveston, Texas	30.27	768.8	30.31	769.9	56.2	13.4	95	se.	6	2.7			fg.			0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.61	752.1	30.32	770.1	35.0	1.7	79	s.	6	2.7			10 s			0.01	0.3	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.24	641.1	30.14	765.5	43.8	6.6	57	e.	7	3.1		7 cs	0	sw.		0	0	fair	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.30	769.6	30.31	769.9	37.0	2.8	100	n.	18	8.0	.....	.....	10 s	.....	n.	0.40	10.2	cloudy	R. M. Crawford.
Helena, Montana	25.82	655.8	30.20	767.1	— 3	—19.4	100	nw.	8	3.6	.....	.....	10 n	.....	.....	0.21	5.3	light snow	S. W. Morrison.
Huron, Dakota	28.68	728.5	30.22	767.6	10.8	—11.8	92	nw.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.53	750.0	30.37	771.4	37.8	3.2	73	s.	3	1.3	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.25	768.3	30.28	769.1	53.2	11.8	100	se.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.35	770.9	30.40	772.1	56.2	13.4	93	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.58	751.3	30.28	769.1	35.5	1.9	94	se.	4	1.8	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	F. Z. Gosewisch.
Key West, Florida	30.22	767.6	30.24	768.1	67.5	19.7	78	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.32	770.1	30.34	770.6	34.0	1.1	90	n.	24	10.7	.....	.....	10s;fg	.....	.....	0.45	11.4	cloudy	Wesley Blake.
Knoxville, Tennessee	29.38	746.2	30.46	773.7	40.8	4.9	100	calm	0	0	.....	.....	fg.	.....	.....	0.11	2.8	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.40	746.7	30.24	768.1	35	1.7	70	s.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.24	742.7	30.20	767.1	35.6	2.0	89	se.	5	2.2	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	T. S. Outram.
Lewiston, Idaho	28.89	733.8	29.76	755.9	29.0	— 1.7	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.98	761.5	30.30	769.6	47.0	8.3	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	W. U. Simons.
Los Angeles, California	29.53	750.0	29.93	760.2	49.5	9.7	82	w.	4	1.8	.....	0	2 s	.....	sw.	1.06	26.9	clear	T. S. Collins.
Louisville, Kentucky	29.80	756.9	30.38	771.6	43.0	6.1	83	se.	3	1.3	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	L. M. Dey.
Lynchburg, Virginia	29.66	753.4	30.38	771.6	33.0	0.6	88	se.	2	0.9	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.60	751.8	30.30	769.6	31.2	— 0.4	87	sw.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.34	770.6	30.35	770.9	39.0	3.9	82	nw.	16	7.2	.....	.....	hz.	.....	.....	0.18	4.6	dense haze	William Daly.
Maginnis, Fort, Montana	25.47	646.9	30.24	768.1	— 2.7	—19.3	68	ne.	4	1.8	.....	.....	10 n	.....	.....	0.04	1.0	light snow	F. Burke.
Marquette, Michigan	29.48	748.8	30.26	768.6	31.3	— 0.4	78	sw.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. Gilligan.
Memphis, Tennessee	29.98	761.5	30.34	770.6	49.0	9.4	100	se.	2	0.9	.....	.....	fg.	.....	.....	0.05	1.3	dense fog	D. T. Flannery
Milwaukee, Wisconsin	29.52	749.8	30.32	770.1	37.4	3.0	78	s.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Rhode.
Mobile, Alabama	30.36	771.1	30.40	772.1	46	7.8	96	n	2	0.9	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	H. U. Jones.
Montgomery, Alabama	30.19	766.8	30.43	772.9	49	9.4	96	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	Geo. E. Franklin.
Moorhead, Minnesota	29.19	741.4	30.30	769.6	— 5	—20.6	62	n.	0	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.82	605.0	30.45	773.4	11.0	—11.7	80	sw.	17	7.6	.....	.....	10n;fg	.....	.....	0.05	1.3	light snow	Edwd. A. Beals.
Nashville, Tennessee	29.80	756.9	30.40	772.1	43.1	6.2	91	s	4	1.8	.....	.....	10n;fg	.....	sw.	inap.	inap.	light rain	L. N. Jesunofsky
New Haven, Connecticut	30.31	769.9	30.43	772.9	21	— 6.1	91	ne.	17	7.6	.....	.....	10 n	.....	.....	0.09	2.3	light snow	J. H. Sherman.
New London, Connecticut	30.40	772.1	30.45	773.4	26.5	— 3.1	94	ne.	10	4.5	.....	.....	10 ks	.....	ne.	0.13	3.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.33	770.4	30.39	771.9	49.9	9.9	95	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	M. Herman.
New York, New York	30.22	767.6	30.41	772.4	29.1	— 1.6	100	ne.	13	5.8	.....	.....	10 n	.....	.....	0.28	7.1	light snow	H. J. Penrod.
Norfolk, Virginia	30.32	770.1	30.35	770.9	35.0	1.7	93	n.	4	1.8	.....	.....	10 s	.....	.....	0.39	9.9	cloudy	Wm. Davis.
North Platte, Nebraska	26.98	685.3	30.10	761.5	21.6	— 5.8	82	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Dascomb
Olympia, Washington T'y	29.67	753.6	29.71	754.6	36.0	2.2	79	n.	1	0.4	.....	hz.	0	.....	.....	0	0	clear	A. Pollak
Omaha, Nebraska	28.88	733.5	30.14	765.5	34.0	1.1	88	se.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	A. Pollak
Oswego, New York	30.01	762.2	30.36	771.1	28.0	— 2.2	82	s	6	2.7	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	J. G. Linsley.
Palestine, Texas	29.72	754.9	30.30	769.6	58.4	14.7	85	s.	8	3.6	.....	0	8 ks	.....	s.	0	0	cloudy	P. T. Jenkins.
Pensacola, Florida	30.38	771.6	30.41	772.4	52.8	11.6	100	ne.	4	1.8	.....	.....	fg.	.....	.....	0.07	1.8	dense fog	M. McGauran.
Philadelphia, Pa.	30.28	769.1	30.39	771.9	31	— 0.6	88	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.17	4.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.61	448.0	30.34	770.6	6.0	—14.4	83	sw.	40	17.9	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.54	750.3	30.39	771.9	30.0	3.9	86	sw.	4	1.8	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	O. D. Stewart
Poplar River, Montana	.....	.....	.....	.....	—10.9	—23.8	100	ne.	.....	.....	1	.....	10 s	.....	.....	0.05	1.3	threatening	G. A. Carden.
Port Huron, Michigan	29.58	751.3	30.31	769.9	32.3	0.2	88	sw.	6	2.7	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	M. H. Perry
Portland, Maine	30.50	774.7	30.55	776.9	11.0	—11.7	80	n.	7	3.1	.....	.....	10 n	.....	n.	0.02	0.5	light snow	W. W. Eichelberger.
Portland, Oregon	29.57	751.1	29.64	752.8	35.0	1.7	89	nw.	6	2.7	.....	0	9 s	.....	.....	0.09	2.3	cloudy	M. L. Hearne.
Prescott, Arizona	24.69	627.1	30.07	763.8	37.5	3.1	79	sw.	16	7.2	.....	0	8 s	.....	s.	0	0	cloudy	N. D. Lane.
Provincetown, Mass.	30.43	772.9	30.46	773.7	29.9	— 1.2	80	se.	13	5.8	.....	4 0	6 s	.....	se.	0.02	0.5	cloudy	O. N. Kitchel.
Red Bluff, California	29.26	743.2	29.64	752.8	43	6.1	96	s.	12	5.4	.....	.....	10 ks	.....	s.	0.33	8.4	cloudy	J. R. Williams.
Rio Grande City, Texas	30.04	763.0	30.29	769.4	66.6	19.2	91	se.	12	5.4	.....	1 cs	4 ks	.....	se.	0	0	fair	L. G. Schultz.
Rochester, N. Y.	29.66	753.4	30.37	771.4	27	— 2.8	100	w.	4	1.8	.....	.....	fg.	.....	.....	0.57	14.5	dense fog	E. W. McGann.
Roseburg, Oregon	29.06	738.1	29.63	752.6	34.7	1.5	91	s.	4	1.8	.....	.....	10 s	.....	sw.	0.40	10.2	threatening	J. J. Nanry.
Sacramento, California	29.61	752.1	29.69	754.1	44.0	6.7	93	s.	6	2.7	.....	0	6 s	.....	se.	0.13	3.3	fair	J. A. Barwick
St. Louis, Missouri	29.66	753.4	30.32	770.1	43.2	6.2	91	s.	9	4.0	.....	.....	fg.	.....	.....	0	0	dense fog	J. H. Weber.
St. Michael, Fort, Alaska	29.66	753.4	29.70	754.4	18	— 7.8	100	s.	.....	.....	2	.....	10 n	.....	.....	0.05	1.3	light snow	Fred. H. Clarke
St. Paul, Minnesota	29.26	743.2	30.20	767.1	30.0	— 1.1	100	se.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.36	745.7	30.34	770.6	1	—17.2	85	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.28	642.1	29.85	758.2	41.5	5.3	57	se.	20	8.9	.....	0	3 s	.....	.....	0	0	clear	J. Craig.
San Diego, California	29.91	759.7	29.98	761.5	55.7	13.2	76	sw.	9	4.0	.....	0	4 k	.....	sw.	0.92	23.4	fair	F. R. Day.
Sandusky, Ohio	29.66	753.4	30.38	771.6	37	2.8	72	sw.	2	0.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.36	771.1	30.39	771.9	31.7	— 0.2	88	ne.	19	8.5	.....	.....	10 n	.....	.....	0.13	3.3	light snow	V. P. Chappel.
Sanford, Florida	30.30	769.6	30.34	770.6	52.0	11.1	96	nw.	8	3.6	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	J. B. Maroury
San Francisco, California	29.60	751.8	29.67	753.6	46.0	7.8	93	s.	5	2.2	.....	0	7 s	.....	sw.	0 40	10.2	fair	N. Gorom.
Savannah, Georgia	30.31	769.9	30.41	772.4	46	7.8	88	nw.	10	4.5	.....	.....	10s;fg	.....	n.	0.01	0.3	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.48	672.6	30.34	770.6	—10	—23.3	76	w.	2	0.9	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.06	763.5	30.31	769.9	50.5	10.3	90	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	30.24	768.1	30.32	770.1	28	— 2.2	77	e.	2	0.9	.....	0	4 s	.....	e.	0	0	fair	F. W. Pickett.
Smithville North Carolina	30.33	770.4	30.37	771.4	39.5	4.2	94	nw.	8	3.6	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.68	703.1	29.82	757.4	23.0	— 5.0	80	calm	0	0	.....	0	2 s	.....	.....	0.03	0.8	clear	D. Moore.
Springfield, Illinois	29.59	751.6	30.32	770.1	39.0	3.9	89	s.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	T. B. Jennings.
Stockton, Fort, Texas	27.08	687.8	30.22	767.6	48.0	8.9	86	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.67	753.6	.....	.....	36.6	2.6	65	e.	42	18.8	.....	0	0	.....	.....	0.02	0.5	clear	R. Connor.
Thomas, Camp, Arizona	27.32	693.9	30.15	765.8	41.2	5.1	82	calm	.....	.....	0	0	5 s	.....	.....	0	0	fair	R. C. Lord.
Toledo, Ohio	29.63	752.6	30.37	771.4	37.2	2.9	80	w.	5	2.2	.....	.....	10s;fg	.....	.....	0.01	0.3	cloudy	A. Buell.
Unalaska, Alaska	29.71	754.6	29.73	755.1	45	7.2	83	s.	20	8.9	.....	.....	10 n	.....	.....	0.34	8.0	light rain	Samuel Applegate
Vicksburg, Mississippi	30.11	764.8	30.38	771.6	54.0	12.2	93	se.	5	2.2	.....	0	3 s	.....	w.	0.01	0.3	clear	C. Dill.
Washington, D. C.	30.29	769.4	30.41	772.4	32.0	0.0	84	nw.	4	1.8	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.98	659.9	30.11	764.8	24.5	— 4.2	73	ne.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.32	770.1	30.38	771.6	39.6	4.2	94	n.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	L. H. Albrecht.
Yankton, Dakota	28.71	729.2	30.13	765.3	29.8	— 1.2	71	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.78	756.4	29.93	760.2	56.8	13.8	73	se.	21	9.4	.....	.....	10 s	.....	w.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.99	761.7	30.01	762.2	21.1	— 6.1	69	n.	19	8.5	.....	.....	10 n	.....	.....	0	0	cloudy	George Cherulck.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	.....	n.	.....	.....	2	0	7 n	.....	n.	0.64	16.3	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.02	559.3	.....	.....	52.7	11.5	80	ne.	4	2	.....	0	3 k	.....	s.	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.86	758.4	30.01	762.2	— 2	—18.9	100	s.	13	5.8	.....	.....	10 s	.....	s.	0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.12	765.0	66.0	18.9	89	n.	1	0.4	.....	0	1 s	.....	e.	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	77	25.0	86	e.	.....	.....	3	6 k	8 ps	e.	.....	0	0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.44	747.8	30.00	762.0	77	25.0	94	calm	.....	.....	0	.....	10 ks	.....	calm	0	0	cloudy	Francisco J. Olsner.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73	22.8	90	ne.	.....	.....	2	.....	.....	.....	.....	0	0	cloudy	Earl Flint.
York Factory, B. A.	30.22	767.6	30.29	769.4	—30.0	—34.4	.....	w.	8	3.6	.....	3 k	6 s	w.	w.	0.02	0.5	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.97	761.2	29.98	761.5	78.8	26.0	87	n.	9.6	4.3	.....	0	4 k	.....	n.	.....	.....	fair	P. Fasiani.
Naós, Bay of Panama	29.92	760.0	29.99	761.7	73.4	23.0	86	n.	.....	.....	4	0	1 k	.....	n.	.....	.....	clear	Antonio Fabro.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic																		
S.S. Assyrian Monarch, N. 49° 04′, W. 15° 05′						wsw.			5		4		wsw.	3 h'r	3 h'r	high	sw.	hazy.
S. S. Alleghany, Chesapeake Bay †	30.39	771.9	34	1.1		n.			2		10		ne.	rain	rain			raining.
Schr. Anna A. Holton, N. 38° 17′, W. 73° 52′*†	30.22	767.6				nw.			5		10		n.	10 h'r	10 h'r	mod.	nnw.	drizzling.
S. S. Alps, N. 18° 28′, W. 66° 06′			81	27.2		calm			0		0			rain	rain	short		
S. S. British Prince, Cape Henlopen, Del †	30.25	768.3	27	— 2.8		nne.			3		10		nne.	6 h'r	6 h'r			foggy.
S. S. Circassian, N. 45° 40′, W. 50° 30′	30.10	764 5	20	— 6.7		nw.			4		7		nw.			4	nw.	d. clouds.
S. S. City of Augusta, off Sandy Hook, N. J						nne.			7		10		ne.					raining.
S. S. Denmark, New York, N.Y †	30.40	772.1	28	— 2.2	100	ne.			4		10							light snow.
S. S. Daniel Steinmann, N. 40° 42′ W. 71° 19′†	30.33	770 4	34	1.1		ene.			5		10					mod.	ene.	snowing.
S. S. France, N. 47° 23′ W. 34° 41′	29.67	753.5				wnw.			6		5		wnw.	0	0	h'vy	nw.	fair.
S. S. Gen. Werder, N. 41° 27′ W. 65° 10′	30.63	778.0				e.			4		4		e.	6 h'r	6 h'r	mod.	e.	fair.
Bg. Lilian, N. 32° 40′, W. 68° —′ †	30.10	764.5				s			2		6		s.	1 h'r	1 h'r	mod.	e.ne	fair.
S S. Landaff City, New York, N. Y *†	30.48	774.2	29	— 1.7		ne.			5		10			snow	snow			snowing.
S. S. Lessing, N. 44° 41′, W. 41° 05′	29.58	751.3	36	2.2		w.			6		8		w.	0	0	r'gh	wnw.	clearing.
S. S. Mentmore, N. 42° 22′, W. 56° 15′						ne.			9		10			16 h'r	16 h'r	mod.	n.	cloudy.
S. S. Nova Scotian, N. 44° 07′, W. 38° 10′	29.75	755.6	36	2.2		w.			5		10		wsw.			con.	w.	snowing.
S. S. Pavonia, N. 42° 14′, W. 55° 19′	30.46	773 7	30	— 1.1	100	w.			6		8		w.	10 h'r	10 h'r	mod.	wnw.	snow squalls
S. S. Picqua, Boston, Mass *†	30.56	776.2	28?	—2.2?		ese.			2				ese.	light	light			cloudy.
S. S. Romano, New York Harbor, N Y	30.37	771.4	31	— 0.6		ene.			3		10			snow	snow			snowy.
Bgt. Sunlight, N. 36° 12′. W. 73° 40′ †	30.14	765.5				nnw.			6		10		nnw.	8 h'r	8 h'r	r'gh	ne.	cloudy.
S. S. Thingvalla, New York, N. Y †	30.46	773.7	35.6	2		nne.			2									misty.
S. S. Valencia, N. 30° 7′, W. 71° 16′ †	30.24	768.1	68.5	20.3	79	sw.			1		2		calm	0	0	mod	cross	clear
S. S. Westphalia, New York, N.Y	30.37	771.4	29	— 1.7	100	ene.			1		10			20 h'r	20 h'r			cloudy.
S. S. Andes, N. 25° 15′, W 74° 10′ *†"	30.30	769.6	72	22.2		nne.			3				nne.	6 h'r	6 h'r			squally.
Bk. Ariadne, New York, N. Y	30.44	773.2	30	— 1.1		ene.			2		10		ne.	15 h'r	15 h'r			cloudy.
Schr. Annie R Lewis, Cienfuegos, Cuba, W. I.			74	23.3		nne.			1		1		ne.	0	0			clear.
Schr. Arthur Burton, Matanzas, Cuba, W. I†	30.30	769.6				ne.			5		3		ne.	0	0	r'gh	ne.	fair.
Bk. Aureola, N. 28° 38′, W. 70° 18′ †	30.20	767.1				nw.			1		5		nnw.	0	0	h'vy	nne.	fair.
U. S. S. Alliance, Cape Haytien, Hayti, W.I	30.14	765.5	72	22.2	90	sw.			1		2			h'vy	h'vy	sm'h		clear.
S. S. Britannic, N. 51° 16′, W. 29° 50′ *†	29.31	744.5	34	1.1		wsw.			5		8		w.	4 h'r	4 h'r	high	nw.	snowing.
S. S. British Princess, N. 49° 39′ W. 23° 30′ †	29.33	745.0	46	7.8		sw.			7		8		wsw.	2 h'r	2 h'r	h'vy	cross	clearing
S. S. Chalmette, N. 29° 58′, W. 80° 30′†	30.36	771.1	60	15.6		nne.			4		10		ne.	0	0	mod.	ene.	cloudy.
S. S. Donau, N. 48° 45′, W. 31° 21′	29.42	747.3	37.4	3		var.			6–7		10		w.	10 h'r	10 h'r	r'gh	w.	squally.
S. S. England, N. 50° 44′, W. 26° 27′	29.27	743.4				sw.			5		10		sw.	snow	snow	high	sw.	squally.
Schr. Ellen Crusoe, N. 39° 50′, W. 73° 45′ *†	30.34	770.6				e.							ne.	24 h'r	24 h'r	long		light rain.
S. S. Gallia, N. 50° 32′, W. 18° 56′	29.46	748 3	52	11.1		wsw.			6		8			rain	rain	high	w.	
Bg. George. N. 29° 28′, W. 72° 20′ *†	30.22	767.6				wnw			1		2			0	0	mod	con.	fair.
S. S. Grecian, Dunkirk, Belgium			51	10.6	93	wsw.			6		10		w.	6 h'r	6 h'r			overcast.
S. S. Holland, N. 48° 10′, W. 34° 01′			37	2.8		wsw.			6		8		wsw.	12 h'r	12 h'r	r'gh	w.	hailing.
S. S. Hermann, N 49° 30′, W. 7° 28′	29.86	758.4	54.0	12.2	93	sw.			6		8		sw.	3 h'r	3 h'r	r'gh	wsw.	cloudy.
S. S. Lone Star, N. 26° 17′, W. 85° 20′*†	30.36	771.1	71	21.7		ene.			3		4		ene.	0	0	mod.	ene.	fine.
S. S. Lord Clive, N. 49° 58′, W. 8° 25′						ssw.			5		10		ssw,	6 h'r	6 h'r	mod.	w.	misty.
S. S. Muriel, N. 19° 20′, W. 63° 50′	30.13	765.3	76	24.4		ene.			2		0			0	0	long	e.	clear.
S. S. Ontario, N. 43° 46′, W. 58° 40′	30.47	773 9	15	— 9.4		nw.			4		0			1 h'r	1 h'r	sm'h		clear.
S. S. Rhaetia, N. 50° 32′ W. 19° 08′	29.54	750.4	52	11.1	100	ssw.			6		2		ssw.	0	0	mod.	ssw.	clear.
Bk. Saga, N. 36° 07′, W. 72° 55′ *†	30.12	765.0	59	15.0		var.			3–9		10		var.	17¼	hours	r'gh		cloudy.
S. S. Salerno, N. 49° 07′, W. 26° 36′ †	29.40	746.7	40	4.4		w.			8		10		w.			h'vy	wsw.	hail squalls
S. S. St. Laurent, N. 49° 30′, W. 15° 00′			53.6	12		wsw.			6		10		sw.	2 h'r	2 h'r	h'vy	sw.	overcast.
U. S. S. Swatara, Miragoane, Hayti, W. I	30.21	767.3	72	22.2	85	sse.			3		2		sse.	0	0			clear.
U. S. S. Tennessee, N 13° 39′, W. 80° 40′	30.03	762.7	78	25.6	78	ne.	27	12.1			2		ne.	0.12	3.0	mod.	ne.	clear.
U. S. S. Vandalia, La Guayra, Venezuela	30.07	763.8	73	22.8	81	calm			0		2		calm					clear.
S. S. Wyoming, N. 50° 42′, W. 19° 15′	29.43	747.5	49	9.4		sw.			7		7		wsw.	5 h'r	5 h'r	h'vy	sw.	squally.
S. S. Westernland, N. 50° 06′, W. 13° 12,	29.70	754.4				sw.			6		4		ssw.	10 h'r	10 h'r	r'gh	wsw.	fair.
S. S. Zeeland, N. 46° 43, W. 38° 39′			41	5.0		wnw.			7		10		nnw.	snow	snow	h'vy	wnw	snowing.
U. S. Navy Yard, Portsmouth, N. H.*	30.63	778.0	11	—11.7	80	nw.	4	1.8			10		sw.	0	0			cloudy.
U. S. S. Kearsarge, Leghorn, Italy	30.16	766.1	55	12.8	62	ssw.			2		5							fair.
U. S. S. Lancaster, Leghorn, Italy			54	12.2	87	ene.			1		5		ene.	0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.44	773.2	27	— 2.8	100	ene.			2		8		ene.			sm'h		fair.
U. S. S. Quinnebaug, Leghorn, Italy	30.18	766.6	56	13.3	69	ssw.			2		2		s.			sm'h		fair.
U. S. S. Shenandoah, Porto Praya, Cape Verd Ids			79	26.1	66	ne.			3		2					sm'h		fair.
U. S. S. Trenton, Marseille, France	30.27	768.8	58	14.4	70	nw.			3		2		nw.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.21	767.3	59	15.0	54	nnw.			3		0							blue sky.
H. M. S. Alecto, N. 8° 30′, W. 13° 15′	29.95	760.7	86	30.0		calm			0		0					1	wsw.	misty.
H. M. S. Comus, N. 33° 05′, W. 24° 20′	30.26	768.6	65	18.3	84	sse.			3		6	wsw.				3	s.	
H. M. Dockyard, Bermuda, Atlantic	30.18	766.6	61	16.1	77	ene.			4		6	ene.						d. clouds.
H. M. S. Minotaur, Palmas Bay, Sardinia	30.35	770.9	58	14.4	82	wnw.			3		8							d. clouds.
H. M. S. Tyne, N. 21° 01′, W. 21° 23′	30.15	765 8	72	22.2	76	ne.			4		10	ne.				3	ne.	misty.
H. M. S. Woodlark, N. 34° 00′, E. 20° 33′	29.78	756.4	58	14.4	58	wnw.			8		8	nw.				7	nw.	showery.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.93	760.2	84.2	29.0	79	sw.			3		2			2 h'r	2 h'r	2	sw.	d. clouds.
S. S. Ohio, (Am.) Philadelphia, Pa*†	30.37	771.4	29	— 1.7	100	sse.			2		9			8 h'r	8 h'r			cloudy.
S. S. Pennsylvania, N. 49° 06′, W. 37° 28′ †	29.41	747.0	32	0.0	100	wsw.			3		9		wnw.	7 h'r	7 h'r	h'vy	w.	squally.
S. S. Prussian, N. 44° 25′, W. 51° 55′	30.27	768.8	25	— 3.9		nw.			5		2		nw.	0	0		nw.	clear.
S. S. Scandinavian, N. 44° 04′, W. 54° 03′	30.42	772.7	26	— 3.3		nnw.			6		5		nnw.	14 h'r	14 h'r	high	nnw.	d. clouds.
S. S. Ailsa, N. 18° 31′, W. 75° 33′			76	24.4	91	ne.			2		2		ne.	0	0	sm'h		fine.
S. S. Devonia, N. 54° 54′, W. 14° 28′ †	29.41	747.0	46	7.8		w.			4		8		w.	13 h'r	13 h'r	mod.	w.	cloudy.
S. S. Carroll, Halifax, N. S			— 4	—20.0		n.			1		0			0	0			clear.
S. S. Wisconsin, N. 51° 17′, W. 24° 01′	29.21	741.9	40	4.4		n.			2		10		w.	8 h'r	8 h'r	con.		snowing.
S. S. Bohemia, Hamburg, Germany						sw.			4		5		sw.					fine.
S. S. Virginian, N. 50° 19′, W. 21° 59′			46	7.8		sw.			3				w.	0	0	mod.	sw.	clear.
S. S. Hevelius, Liverpool, Eng*†	29.55	750.6	40?	4.4?		ssw.			5		5?		wsw.	3 h'r	3 h'r			cloudy?
S. S. Olbers, N. 49° 38′, W. 30° 17′	29.43	747.5	48	8.9	96	wsw.			7		8							gloomy.
S. S. Texas, South Pass, Mississippi River					86	s.			1		fg			0	0			dense fog.
S. S. City of Washington, N. 23° 10′, W. 82° 23′*†	30.28	769.1	80	26.7		ne.			5		5		ne.	0	0	mod.	ne.	fine.
S. S. Erin, London, Eng	29.78	756.4	54	12.2		w.			4		7		w.	0	0			fine.
S. S. Greece, N. 41° 16′, W. 59° 49′ †	30.58	776.7	29	— 1.7	100	ene.			5		9		ne.	2 h'r	2 h'r	mod.	nne.	snow squalls
S. S. Salier, N. 48° 11′, W. 36° 31′*	29.44	747.8				wnw.			6		10		wnw.	8 h'r	8 h'r	cross	wnw	covered
S. S. Rhynland, N. 49° 48′, W. 7° —′	29.87	758.7	54	12.2	74	ssw.			4		10			sh'rs	sh'rs	mod.	sw.	foggy
S. S. Waesland, N. 42° 12′, W. 59° 18′			30	— 1.1		nne.			6		8		ne.	1 h'r	1 h'r	rg'h	nne.	clearing.
S. S. State of Nevada, Glasgow, Scotland *†	29.20	741.7	35	1.7		ene.			5		10		ene.	rain	rain			rain & sleet.
S. S. Saxon, Philadelphia, Pa †	30.41	772.4	30	— 1.1		n.			1		10							snowing.
S. S. Celtic, Liverpool, Eng*†	29.54	750.3	51	10.6		wsw.			4		5		sw.	8 h'r	8 h'r			fine.
S. S. Rialto, N. 43° 18, W. 38° 17′ †	29.80	756.9	44	6.7		w.			5		5?		wnw.	2 h'r	2 h'r	mod.	wnw	cloudy.?
Bg. Alcira Maracaybo, Venezuela			78	25.6		nne.			2		4		ne.	0	0			clear.
S. S. Antonio Lopez, Cadiz, Spain	30.44	773.2	62.5	16.9	80	nnw.			1					0	0			foggy.
Schr. Adda Doane, N. 24° 28′, W. 74° 42′ †	30.25	768.3				ne.			4		2		ne	0	0	long	ne.	clear.
Bgt. Achsah, Clementsport, N. S			— 6	—21.1		ne.			3		0			0	0			clear.
Bk. Bayonnaise, N. 35° 52′ W. 27° 00′			62.6	17.		sw.			8		10		sw.	3 h'r	3 h'r	h'vy	sw.	squally.
Bk. Chas. Stewart, N. 35° 30′, W. 29° 15′*†	30.11	764.8				s.			6		10		se.	sh'rs	sh'rs	r'gh	var.	cloudy.
Schr. C. R. Flint, N. 26° 34′, W. 56° 55′			70	21.1		ene.			3		10		e.	3 h'r	3 h'r	long	ne.	stormy.
Schr. Clotilde, N. 32° 04′, W. 77° 28′ †	30.31	769.9	62	16.7		nnw.			4		10		nnw.	0	0	mod.	nnw.	cloudy.
Bk. Celestina, N. 8° 45′, W. 25° 45′*†	30.05	763.3				ne.			2		0			0	0	sm'h	ne.	hazy.
S. Dora, N. 58° 50′, W. 21° 56′ *†	28.94	735.1	39.7	4.3		ese.			6		5		s.	6 h'r	6 h'r	mod.	se.	squally.
S. E. J. Spicer, N. 46° 48′, W. 14° 05	29.94	760.5	58	14.4	100	ssw.			6		10		sw.	light	light	high	wnw.	foggy.
Bk. Fred W. Carlon, off Great Isaac Light, W. I †	30.31	769.9				ne.			5		2		ne.	½ h'r	½ h'r	sm'h	ne.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. Hedwig, N. 36° 38′, E. 13° 34′	30.25	768.4	57.6	14.2	67	nw.			8		0			0	0	4	nw.	clear.
Bk. Hattie G. McFarland, Ship Island, Miss.						e.			2		fg.			0	0			foggy.
S. Henry, N. 36° 12′, W. 2° 54′			61.2	16.2		nne.			1–2	4 0						sm'h		hazy.
Bg. John Wesley, Havana, Cuba, W.I.						calm			0		7		ene.	0	0			fair.
Schr. John L. Thomas, Hobbles Cays, C. A †	30.06	763.5	76	24.4	86	ne.			4		2		ne.	0	0	mod.	ne.	clear.
Bg. L. & W. Armstrong, Pointe a Pitre, Guadeloupe †	30.04	763.0				calm			0		1		ene.	¼ h'r	¼ h'r			clear.
S. S. Laurel, Key West, Fla †	30.27	768.8	67	19.4		nne.			3–4		1		nne.	0	0			fair.
S. S. Madrid, London, Eng †	29.77	756.1	44?	6.7?	84	ssw.			6		5		ssw.	5 h'r	5 h'r			fair.
Schr. Maria Matilda, N. 28° 08′, W. 74° 55′*†	30.30	769.6	70	21.1	57	n.			6		6		n	0	0	long	n.	fine.
Schr. Norena, N. 31° 43′, W. 62° 00′						e.			4		9		ese.	0	0	mod.	une.	showery.
S. Parker M. Whitmore, N. 17° 37′, W. 37° 09′ *†	30.09	764.3	78	25.6		e.			3		2		e.	0	0	sm'h		clear.
S. S. P. de Satrastegui, N. 43° 52′ W. 15° 47′	30.06	763.5				sw.			6		7		sw.	0	0	cross	var.	hazy.
Bg. Rising Sun, N. 12° 30′, W. 57° 23′ †	30.05	763.3	76	24.4		ene.			5		9		e.	mod.	mod.	long	e.	squally.
Bk. Rosalie, N. 49° 38′, W. 12° 22*†	29.68	753.9				sw.			6		7		w.	¾ h'r	¾ h'r	long	w.	cloudy.
S. Salisbury, N. 18° 04′, W. 53° 03′	30.20	767.1	75.2	24.0	84	ne.			1–2		3 k		ene.	0	0	mod.	ene.	clear.
Bk. Silica, N. 35° 47′, W. 49° 22 *	30.27	768.8				nw.			7		5		nnw.			h'vy	nnw.	threatening.
Bk. Tuck Sing, Cienfuegos, Cuba, W I*†	30.20	767.1				nne.			3		0			0	0	sm'h		fine.
Bg. Teneriffe, N. 34° 45′, W. 73° 15′	30.09	764.3				nnw.			6		10		n.	rain	rain	5	n.	
S. S. City of Alexandria, Vera Cruz, Mexico *†	30.24	768.1	67	19.4		n.			2							mod.	n.	d. clouds.
S. S. Crescent City, N. 32° 09′, W. 73° 25′*†	30.17	766.3	65	18.3		nw.			6								w.	cloudy.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.86	758.4	78	25.6	82	ene.			2		2		e.			sm'h		fair.
U. S. S. Pinta, S. 24° 56′ W. 44° 20′	29.94	760.5	79	26.1	82	n.			1		8		n.			sm'h		cloudy.
H. M. S. Amethyst, Port Belgrano, La Plata	29.79	756.7	70.5	21.4	82	ne.			3		0							blue sky.
H. M. S. Boadicea, Ascension Island, Africa	30.01	762.2	84	28.9		se.			3		3	ese.						blue sky.
H. M. S. Opal, Simons Bay, Cape Colony	30.00	762.0	75	23.9	60	sse.			6		3	sse.						squally.
S. S. Sirius, S. 23° 16′, W. 44° 00′	29.93	760.2				calm			0		1		calm	0	0	sm'h		clear.
S. S. Teniers, S. 10° 58′, W. 33° 00′	30.05	763.3	81.6	27.6	93	ene.			4	0	5 k		ene	0	0		ene.	d. clouds.
Bg. Daphne, S. 5° 05′, W. 35° 22′ *†	29.96	761.0	82	27.8	75	se.			3		1		ese.	0	0	sm'h	var.	clear.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.10	764.5	79	26.1		wsw.			3		8		wsw.	0	0			fair.
Bkt. Levanter, S. 30° 54′. W. 47° 33′*	29.98	761.5	74	23.3		ssw.			2		1			0	0	light	s.	clear.
S. St. David, S. 25° 49′, W. 22° 20′*†	30.26	768.6	77	25.0	86	n.			3		3		ene.	0	0	light	ene.	clear.
S. David Stewart, Pernambuco, Brazil †	29.82	757.4	85	29.4		ese.			4		2		se.	0	0			
Bk Godeffroy, S. 27° 38′, W. 21° 30′	30.10	764.5	75.6	24.2	92	nnw.			4		3		nnw.	rain	rain	mod.	n.	clear.
S. Oreola, S. 4° 12′, W. 29° 40′ *.	29.95	760.7				se			5		2		e.	0	0	sm'h		clear.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.87	758.7	39	3.9	46	n.			3		10		w.	light	light			cloudy
U. S. S. Adams, Sitka, Alaska †	30.29	769.4	27	— 2.8	76	e.			1		0							clear.
U. S. S. Alert, N. 17° 06′, E. 157° 24′	29.95	760.7	77	25.0	82	ne.			4		2		ne			mod.	nne.	fair.
U. S. S. Essex, Canton, China	29.94	760.5	73	22.8	81	sse.			1		2							clear.
U. S. S. Juniata, Shanghai, China	30.33	770.4	40	4.4	82	ene.			1		10		calm	light	light			cloudy.
U. S. S. Monocacy, Shanghai, China	30.31	769.9	39	3.9	73	ne.			3		10		calm					cloudy.
U. S. S. Richmond, Shanghai, China	30.30	769.6	43	6.1	83	ne.			3		10		ne.	0.50	12.7			cloudy.
H. M. S. Audacious, Hong Kong, China	29.94	760.5	72	22.2	90	ssw.			1		1							blue sky.
H. M. S. Cleopatra, off Amoy, China	30.01	762.2	60	15.6	82	ne.			5		10	e.				3		overcast.
H. M. S. Champion, Shanghai, China	30.35	770.9	43	6.1	73	ne.			2		10	ese.						overcast.
H. P. M. S. Tamega, Macao, China	30.03	762.8	69.8	21.0	86	se.			2		0			0	0			blue sky.
S. S. Newbern, N. 33° 46′, W. 118° 40′ *†	30.00	762.0	55	12.8	68	se.			6		8		ssw.	light	light	mod	se.	cloudy.
S. S. Oregon, San Francisco, Cal †	29.68	753.9	46	7.8	92	se.			2		5		se.					raining.
S. S. Alameda, Honolulu, Sandwich Islands †	29.92	760.0	69	20.6	75	nne.			3		0			0	0			clear.
S. S. Ancon, San Diego, Cal. †	29.98	761.5	56	13.3	87	ssw.			3		8		se.	0	0			cloudy.
S. S. City of Chester, San Francisco, Cal †	29.65	753.1	45	7.2	84	calm			0		10							rainy.
S. S. Orizaba, N. 37° 12′, W. (119?) 40′ †	29.65	753.1	48	8.9	78	se.			5		10		se.	1½ h'r	1½ h'r	long	s.	rainy.
S. S. Queen of the Pacific, San Francisco, Cal. †	29.66	753.4	46	7.8	92	sw.			1		2?		sw.	4 h'r	4 h'r			cloudy.?
S. S. State of California, N. 43° 20′, W. 124° 30′†	29.57	751.1	44	6.7	92	e.			3		0					long	w.	clear.
S. S. City of Rio de Janeiro, N. 24° 05′, W. 179° 53′†	30.12	765.0	68	20.0		wnw.			3		2		w.			large	nnw.	clear.
S. S. City of Sydney, N. 37° 05′, W. 124° 33′ *†	29.61	752.1	49	9.4	?	sse.			3	0	8 n		sse.			h'vy	nw.	cloudy
S. S. Granada, Panama, Panama †	29.94	760.5	74	23.3	86	nnw.			1		0			0	0	light	nw.	clear
S. S. San Blas, San Jose, Guatamala †	29.95	760.7	73	22.8	90	ne.			3		0			0	0	small	se.	clear.
S. S. Zealandia, N. 20° 37′, W. 157° 59′			76	24.4	77	se.			2				e.	2 h'r	2 h'r	mod.	e.	fine.
Bk. Alpheus Marshall, N. 25° 55′, E. 139° 30′*†	30.00	762.0	69	20.6	90	wnw.			3		4		nw.	½ h'r	½ h'r	mod	nw.	fair.
S. S. Benalder, N. 44° —′, E. 138° —′*	29.99	761.7	51	10.6	59	nw.			6		0			0	0	mod.	nw.	clear.
S. Carondelet, N. 0° 35′, E. 136° 30′*†	29.88	758.9				ne.			2		9		ne.	2 h'r	2 h'r	mod.	n.	cloudy.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 9° 12′, W. 103° 34′	29.97	761.2	76	24.4	91	ese.			4		5		ese.	0	0	sm'h	se.	fair.
U. S. S. Lackawanna, S. 7° 28′, W. 80° 52′	29.95	760.7	75	23.9	86	sse.			1		8		nw.			sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru* †	30.07	763.8	67	19.4	95	calm			0		10					mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru.*	30.01	762.2	66	18.9	94	calm			0		8		s.			sm'h		cloudy.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.00	762.0	65	18.3	89	sw.			1		4					sm'h		d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.91	759.7	67	19.4		calm			0							sm'h		d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	30.17	766.3	57	13.9	88	calm			0		6							blue sky.
H. M. S. Sylvia, off Sandy Point, Patagonia	28.62	726.9	52	11.1	86	nne.			2		10							raining.
S. S. Australia, Sydney, N. S. W	30.44	773.2	63	17.2		e.			4		2		nne.	0	0			clear.
S. S. George S. Homer, S. 54° 15′, W. 97° 31′ *†	29.39	746.5				wnw.			6		10		nw.	10 h'r	10 h'r	r'gh	nw.	overcast.
S. Ismir, S. 24° 20′, W. 84° 17′*	30.30	769.0				ese.			4		9		ese.	0	0	r'gh	ssw.	overcast.
S. St. Francis, S. 14° 30′, W. 100° 00′ *†	30.10	764.5	74	23.3	81	ese.			5		2		se.	0	0	mod.	se.	clear.
S. Grecian, S. 51° 10′, W. 104° 30′ †	29.45	748.0	56	13.3	87	w.			6		10		sw.	sq'lls	sq'lls	r'gh	var.	squally.
S. Henry Failing, S. 53° 05′, W. 100° 43′* †.	29.50	749.3	48	8.9	92	wnw.			4		10		w.	6 h'r	6 h'r	cross	w.	raining.
H. M. S. Espeigle, S. 43° 37′, E. 172° 44′	29.77	756.1	54	12.2	87	sw.			2		9							d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Mozambique, Africa	29.78	756.4	83	28.3	87	ne.	4	1.8			5		ene.	1.31	33.3	sm'h		fair.
U. S. S. Pensacola, S. 19° 09′, E. 50° 01′*	29.65	753.1	83	28.3	75	sse.			2		2		calm	0.91	23.1	long	se.	fair.
H. M. S. Coquette, N. 15° 36′, E. 39° 44′	29.90	759.4	82	27.8	79	ne.			1		4					sm'h		d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.91	759.7	77	25.0	86	n.			4		0							blue sky.
H. M. S. Tourmaline, Tamatave, Madagascar	29.74	755.4	80	26.7	96	calm			0									raining.
S. S. Galatia, Calcutta, India †	29.95	760.7	80	26.7	78	wnw.			1		0			0	0			clear.
S. S. Port Phillip, S. 27° 22′, E. 102° 07′ *	30.02	762.5	74	23.3		se.			3							chop		squally.
S. S. Radnorshire, N. 17° 35′, E. 40° 13′						nne.			3		0			0	0	mod.	sse.	clear.
S. S. Lepanto, N. 21° 48′, E. 38° 00′	29.87	758.7	76	24.4		nnw.			2		2		nw.	0	0	sm'h		clear.
H. M. S. Magpie, N. 6° 32′, E. 99° 16′	29.87	758.7	82.3	27.9	75	nne.			1		2							d. clouds.

International Chart I. January 29, 1864. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 30, 1884,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.42	772.6	57.6	14.2	98	e.			2		0			0	0	clear	Roziere.
Algiers			30.42	772.7	63.3	17.4	67	w.			2		0			0	0	clear	Aubert.
La Calle			30.38	771.6	63.7	17.6	80	n.			1		3			0	0	pretty fair	Fontrède.
Tunis			30.37	771.5	63.7	17.6	80	w.			4		3			0	0	pretty fair	Delord.
Tebessa					50.7	10.4	76	ne			2		0			0	0	clear	Hans.
Geriville					66.2	19.0	23	nw			3		0			0	0	clear	Forfert.
Laghouat			30.37	771.3	64.4	18.0	90	calm			0		0			0	0	clear	Abraham.
Biskra			30.41	772.5	68.4	20.2	76	w.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.15	765.8	64.0	17.8	66	calm	0	0			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.85	758.2	30.04	763.0	57.2	14.0	79	s.			1		2		s.	0	0	clear	Com. I. Short, R. N.
Melbourne, Victoria	30.07	763.8	30.16	766.0	56.6	13.7	81	se.	7	3.1			5			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.71	754.5	30.26	768.6	52.7	11.5	42	w.			3		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.18	741.1	29.96	760.9	46.4	8.0	81	sw.	8.1	3.6			10			0.083	2.1		Dr. Wierzbiski
Eperies	29.17	741.0	30.09	764.3	35.2	1.8	85	se.			2		10			inap.	inap.		Julius Mikolik.
Gratz	28.93	734.8	30.22	767.5	43.0	6.1	76	n.			2		8			0	0		Andreas Rospini.
Hermannstadt	28.73	729.8	30.22	767.7	37.8	3.2	89	wnw.			2		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.82	732.0	30.17	766.4	50.9	10.5	71	w.			1		7			0.091	2.3		The Staff.
Lemberg	28.93	734.9	29.96	760.9	35.1	1.7	90	s.			3		10			0.110	2.8		Dr. T. Stanecki.
Pola	30.25	768.4	30.37	771.3	47.3	8.5	83	wnw.			3		2			0	0		I. R. Hydrographic Office.
Szathmar	29.67	753.6	30.16	766.0	34.2	1.2	96	s.			2		10			0.209	5.3		Joseph Midlinszky, S. J
Szegedin	29.91	759.6	30.20	767.0	41.0	5.0	75	sw.			1		10			0.008	0.2		Karl Stancel.
Trieste	30.28	769.1	30.38	771.6	48.6	9.2	74	calm			0		0			0	0		Royal Academy.
Vienna	29.40	746.8	30.12	765.1	54.0	12.2	67	w.			4		5			0.146	3.7		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.43	722.0	29.81	757.2	48.0	8.9	99	sw			3		4			0.276	7.0		
Brussels	29.80	756.8	30.00	761.9	53.8	12.1	84	sw.			5		10		sw.	0.079	2.0		
Furnes	29.93	760.1	29.95	760.6	52.7	11.5	93	wsw.			2		10			0.051	1.3	raining	
Maeseyck	29.85	758.2	29.98	761.4	54.9	12.7	83	s.			3		10			0.098	2.5		
British.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			29.72	754.9	48.0	8.9	56	wsw.	37	16.5			6					d. clouds	John Hartnup.
Bolton, Sharples	29.20	741.7	29.73	755.1	44.9	7.2	68	wsw.	24	10.7			8					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.28	743.7	29.68	753.9	46.9	8.3	68	w.			5		6			0.53	13.5	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W. I	30.10	764.5	30.14	765.5	83	28.3	64	ne.			1		2						Corp'l W. I. Cull, A. H. C.
Cardington	29.72	754.9	29.84	757.9	51.6	10.9	79	w.			4.0		8					overcast	John McLaren.
Chatham, School M. E.	29.72	754.9	29.89	759.2	53.1	11.7	97	sw.			2		9					gloomy	Corpl. G. A. Pickles, R. E
Falmouth, Observatory	29.75	755.6	29.98	761.5	50.8	10.4	93	w.			2		10					raining	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A. H. C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	88	31.1	62	n.			1		1					d. clouds	J. W. Smith.
Galway, Queen's College	29.60	751.8	29.64	752.8	46	7.8	77	sw.			5		6			0.20	5.1	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.42	770.1	30.38	771.6	59.4	15.2	91	e.			2		8					gloomy	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	29.70	754.4	29.87	758.7	54.8	12.7	87	wsw.					10					drizzling	The Staff.
Guernsey	29.73	755.1	30.03	762.7	51.5	10.8	96	sw.			4		10					drizzling	A. Collenette, F. R. M. S.
Kew, Observatory	29.85	758.2	29.89	759.2	54.2	12.3	82	sw.	20	8.9			10					gloomy	The Staff.
Leicester, Museum	29.52	749.8	29.78	756.4	52.1	11.2	76	sw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	30.27	768.8	30.35	770.9	60.4	15.8	63	nw.			2					0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.22	767.6	30.26	768.6	69.5	20.8	68	ne.			3		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.64	752.8	29.87	758.7	52.3	11.3	88	sw.			6		10					overcast	The Staff.
Plymouth	29.87	758.7	29.94	760.5	51.8	11.0	96	sw.			2		10					drizzling	John Merrifield.
Sandwick Manse, Orkneys	28.91	734.3	29.01	736.8	40.8	4.9	76						10					snowy	Rev. C. Clouston, L. L. D
Scutari Cemetery, Turkey	30.12	765.0	30.19	766.8	45.0	7.2	65	nne.			2		8					d. clouds	W. H. Lyne.
Sheffield	29.43	747.5	29.71	754.6	48.9	9.4	85	sw.			2		6			0.05	1.3	overcast	W. F. Cooper.
Silloth Rectory	29.56	750.8	29.59	751.6	43.5	6.4	86	sw.			5		6			0.035	0.9	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.73	755.1	45.1	7.3	68	w.	27	12.1			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					54.8	12.7	87	w.			2-6		10					showery	Rev. C. H. Griffiths, F. M. S
Valencia, Observatory	29.76	755.9	29.79	756.7	48.9	9.4	62	sw.	21	9.4			7					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	30.02	762.5	30.41	772.4	58.3	14.6	47	ne.	3.1	1.4		0	1 s			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B					10.0	−12.2		calm	0	0		10 c	0	w		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.27	768.8	30.32	770.1	18	− 7.8	97	sw.	6	2.7		0	5 s		w.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.19	766.8	30.26	768.6	23	− 5.0	91	sw.	1	0.4		2 k	8 ks	sw.	sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.72	754.0	29.92	760.0	21.0	− 6.1	95	e.			1		10 s			0.020	0.5	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.19	766.8	30.25	768.3	8.0	−13.3		calm			0		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.09	764.3	30.11	764.8	17	− 8.3	67	s.	2	0.9		5 cs	5 s	calm	calm	0.03	0.8	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.92	734.6	29.86	758.4	−10	−23.3	100	n.	2	0.9			10 n		n.			light snow	James Stewart.
Fredericton, N. B	30.23	767.8	30.30	769.6	13.1	−10.5	98	calm	0	0			hz			inap.	inap.	dense haze	Prof. Thos. Harrison.
Grand Manan, N. B	30.28	769.1	30.33	770.4	32	0.0	85	calm	0	0			10 s			0.03	0.8	cloudy	J. Chipman Seeley
Granton, Ontario	28.70	729.0	29.82	757.4	35.0	1.7	100	s.	10	4.5			10 n			inap.	inap.	raining	Jas. Grant.
Halifax, N. S*	30.26	768.6	30.41	772.4	17	− 8.3	100	w.	7	3.1		10 k	0			0	0	cloudy	A. Allison.
Hamilton, Ontario	29.39	746.5	29.81	757.2	35.2	− 1.8	90	sw.			3	10 cs	0	sw.		0	0	raining	Geo. Dickson, B. A.
Kingston, Ontario*	29.66	753.4	30.02	762.5	29	− 1.7	88	se.	12	5.4		8 cs	0	s.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.32	770.1	30.36	771.1	20.5	− 6.4	87	calm	0	0		0	0					blue sky	C. H. Rigby.
London, Ontario	28.91	734.3	29.83	757.7	36.3	2.4	95	sw.			3		10 ks			0.33	8.4	misty	E. B. Reed.
Medicine Hat, N. W. T	27.38	695.4	29.85	758.2	− 7	−21.7	42	s.	10	4.5			10 n			0.01	0.3	cloudy	John Ewart.
Minnedosa, N. W. T	27.65	702.3	29.81	757.2	− 9	−22.8	95	nw.	6	2.7			10 n		nw.	0.33	8.4	light snow	Rev. J. M. Wellwood
Montreal, Quebec*	29.88	758.9	30.10	764.5	24	− 4.4	88	s.	12	5.4			10 s		w.	0.07	1.8	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.74	755.4	29.97	761.2	24.8	− 4.6	90	e.					10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	28.95	735.3	29.66	753.4	34	1.1	96	s.	18	8.0			10 n		s.	0.07	1.8	light rain	Rev. R. Mosley.
Peterboro, Ontario	29.12	739.6	29.89	759.2	31.7	− 0.2	87	calm			0		10 kn			0	0	misty	Wm. O'Connor, M. A.
Port Arthur	28.82	732.0	29.57	751.1	13	−10.6	96	nw.	7	3.1			10 n			0.23	5.8	light snow	W. P. Cooke.
Port Dover, Ontario	29.16	740.7	29.87	758.7	35	1.7	100	s.	7	3.1			10 n		s.	0.20	5.1	light rain	H. Morgan.
Port Stanley, Ontario	29.21	741.9	29.87	758.7	34	1.1	89	e.	12	5.4			10 n		e.	0.15	3.8	light rain	M. Payne.
Qu'Appelle, N. W. T	27.20	690.9	29.74	755.4	−11	−23.9		sw.	4	1.8			10 n		calm			light snow	Leslie Gordon.
Quebec, Quebec*	29.77	756.1	30.16	766.1	15	− 9.4	96	calm	0	0			10 s			0.15	3.8	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.32	744.7	29.80	756.9	26	− 3.3	88	se.	8	3.6			10 n			0	0	threatening	W. H. McIntyre.
St. Andrews, N. B	30.24	768.1	30.29	769.4	27	− 2.8	88	calm	0	0			10			0	0	cloudy	
St. John, N. B	30.16	766.1	30.31	769.9	30.0	− 1.1	95	sw.	8	3.6			10 n			inap.	inap.	overcast	G. Hutchinson.
Saint John's, N. F																			J. Higgins.
St. Pierre, N. F			30.28	769.0	24.8	− 4.0		w.			3								The Commandant.
Saugeen, Ontario*	28.96	735.6	29.69	754.1	30	2.2	89	s.	24	10.7			10 s			0.05	1.3	light rain	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.52	724.4	29.83	757.7	36.0	2.2	91	s.	10	4.5			10					raining	W. Mc Bride, M. A.
Sydney, C. B*	30.32	770.1	30.39	771.9	12	—11.1	91	s.	5	2.2		2 c	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.49	749.0	29.88	758.9	34	1.1	85	s.	15	6.7			10 n			inap.	inap.	light rain	Magnetic Observatory.
Woodstock, Ontario	28.75	730.2	29.84	757.9	35.0	1.7	95	se.	32	14.3			10 n			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.28	769.1	30.35	770.9	26	— 3.3	86	e.	4	1.8		10 k	0	sw.		0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.02	762.5	30.05	763.3	76.5	24.7	86	ssw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.83	757.7			78.0	25.6	41	se.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.80	706.1			88	31.1	36									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.87	758.8	29.95	760.8	66.2	19.0	90	n.			1	10	0					cloudy	Samuel Redolez.
Iquique	29.88	758.9	29.91	759.6	71.2	21.8	82	sw.			2	0	4 c		w.			fair	Rafael Moreno.
Niebla	29.58	751.2	29.68	753.9	65.8	18.8	79	e.			1	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.85	758.1	29.93	760.3	71.2	21.8	84	sw.			2	4 c	0	sw.				clear	Manuel Tobar.
Punta Corona	29.89	759.2	30.08	763.9				calm			0	6 n	0			0	0	cloudy	Francisco Alvarado.
Valparaiso	29.79	756.6	29.93	760.1	64.8	18.2	78	w.				10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.28	769.0	30.30	769.6	32.9	0.5	93	n.	4.5	2.0			10			0.244	6.2		M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.49	749.1	29.54	750.3	44.8	7.1	81	wsw.	16	7.			10						Oversergent Fischer.
Fanöe	29.49	749.1	29.51	749.6	41.9	5.5	97	wsw.			6		10					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.59	751.5	29.63	752.6	15.4	— 9.2	100	sse.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.36	745.7	29.40	746.8	21.2	— 6.0	82	e.			2		5						A. O. Thoriacius.
Thorshavn	29.05	737.8	29.07	738.4	37.9	3.3	66	ne.	9	4.			8						Overloerer Bergh.
Vestervig	29.28	743.8	29.38	746.2	41.2	5.1	94	wsw.			6		10					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	29.84	757.9			53.6	12		sw.	11.6	5.2			10			0.098	2.5	covered	Albert Ismalun.
French.																			
Agen, Normal School	29.79	756.7	30.46	773.7	53.6	12	93	sse.			1					0	0	foggy	M. Labroue, Director.
Alençon, Normal School	29.65	753.2	30.21	767.2	51.1	10.6	95	sw.			1		10 n			0.126	3.2	covered	M. Nicot, Director.
Arras, Normal School			30.02	762.5	52.7	11.5	92	sw.			2		2		s.	0.114	2.9	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	30.26	768.7	30.34	770.7	61.2	16.2	56	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.71	754.7	30.28	769.1	52.3	11.3	85	sw.			2		10		w.	0.047	1.2	covered	M. Saillard, Director.
Beauvais, Normal School	29.85	758.1	30.11	764.9	55.4	13	77	sw.			2		10		wsw.	0.051	1.3	covered	M. Frère Eugène Marlè.
Besançon, Normal School	29.45	748.0	30.36	771.2	48.7	9.3	81	s.			2	c				0.094	2.4		M. Gobin, Director.
Bordeaux, Observatory	30.09	764.3	30.35	771.0	57.7	14.3	67	sse.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.82	757.4	30.37	771.5	56.3	13.5	77	w.			1		cn		w	0.008	0.2		M. Sauvageot, Director.
Brest, Naval Observatory	29.87	758.8	30.12	765.0	52.5	11.4	97	sw.			6		10		sw.	0.335	8.5	raining	M. de Kermarée, Dir.
Caen, Normal School	30.01	762.3	30.09	764.2	56.1	13.4	100	ssw.			2		10			0.008	0.2	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.85	758.1	30.17	766.4	54.1	12.3	85	ssw.			6		5		w.	0.012	0.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.61	752.0	30.13	765.2	53.2	11.8	76	w.			1					0.24	6.		M. Noël, Director.
Clermont-Ferrand Obs'y	28.98	736.0	30.34	770.7	55.8	13.2	64	ne.			1		10		w.	0.020	0.5		M. Allnard, Director.
Cluny, Normal School	29.50	749.3	30.25	768.3	55.4	13.	76	sw.			1		7		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.37	746.1	30.25	768.3	51.6	10.9		sw.			4		10 n	sw.	sw.	0.055	1.4	covered	Dr. Goulet, Director.
Gap, Normal School	27.75	704.8	30.34	770.7	47.7	8.7	40	ne.			1		1			0	0		M. Jarach, Director.
Grésasque, du Rhone	29.19	741.5	30.33	770.3	57.0	13.9	61	ne.			1		1		n.	0	0		M. Kina, Director.
Grenoble, Normal School	29.56	750.9	30.35	771.0	45.3	7.4	97	ssw.			1		k			0.020	0.5		M. Ablard, Director.
Guéret, Normal School	28.74	730.1	30.35	771.0	48.2	9	86	w.			1		n		n.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Pollpre, Director
Lescar, Normal School	29.79	756.7	30.37	771.3	61.0	16.1	53	w.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.07	763.8	30.17	766.4	55.4	13.0	75	ssw.			8		10			0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.31	744.4	30.38	771.7	54.1	12.3	76	e.			1		cn			0.059	1.5	fair	M. André, Director.
Mans, Normal School	29.95	760.8	30.26	768.7	53.4	11.9		ssw.			1		5 kn		w.	0.051	1.3	cloudy	M. Richard, Director
Marseille, Observatory	30.06	763.5	30.33	770.4	57.9	14.4	62	sw.			0–1		2			0	0	misty	M. Stephan, Director.
Montlouis	25.09	637.4	29.94	760.4	48.2	9.0	30	sw.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.21	767.2	30.32	770.0	61.9	16.6	80	sw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.46	748.2	30.25	768.3	51.1	10.6	86	s.			2		kn		sw.	0.268	6.8		M. Hasse, Director.
Nantes, Observatory	30.12	765.0	30.28	769.1	55.2	12.9	79	wsw.			4		10 n;kn		wsw.	0.063	1.6		M. Larocque, Director.
Perpignan, Observatory	30.27	768.8	30.38	771.7	62.6	17.0	43	e.	1.8	0.8			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.50	546.0			41.0	5.0		nw.			1		0			0	0	clear	M. Vausseunat, Director.
Privas, Normal School	29.30	744.1	30.38	771.7	52.5	11.4	50	w.			1		n			0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.42	645.7			36.1	2.3	100	w.			3		8			0.402	10.2	foggy	M. Allnard.
Rochefort, Naval Obs'y	30.30	769.6	30.33	770.4	55.4	13.0	79	sw.			1		10		sw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.05	763.3	30.27	768.8	55.4	13.	77	sw.			1		5		ne.	0.012	0.3	cloudy	M. Brotier, Director.
Rodez, Normal School	28.20	716.3	30.39	771.8	49.5	9.7		nw.			1		1		se.	0.031	0.8	clear	M. Seger, Director.
Rouen, Normal School	30.06	763.5	30.11	764.7	59.0	15	98	sw.			1		5	sw.		0.071	1.8	cloudy	M. Moullot, Dir.
St. Lô, Normal School			29.95	760.8	53.2	11.8	95	sw.			4		10	sw.	sw.	0.256	6.5	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.03	762.7	30.19	766.9	54.5	12.5	81	sw.			2				sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.67	753.5	30.40	772.1	51.3	10.7	82	se.			1		2			0	0	slightly cl'dy	M. Baillaud, Director.
Tours	30.09	764.2	30.26	768.7	56.8	13.8	75	s.			2		8	w.	sw.	0.024	0.6	very cloudy	M. de Tastes.
Versailles, Observatory	29.69	754.0	30.18	766.5	54.0	12.2	78	sw.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.22	767.6	30.37	771.4	59.7	15.4	56	sw.	9.8	4.4		2 c				0	0		M. Cartier, Director.
German.																			
Ansbach	28.70	729.0	30.19	766.7	50.5	10.3	70	sw.			6		10	sw.		0.311	7.9		Prof. Jnedt.
Bamberg	29.24	742.6	30.06	763.5	51.1	10.6	66	w.			4		6 n		w.	0.079	2.0	raining	Prof. Dr. Hoh.
Berlin	29.66	753.4	29.81	757.1	47.1	8.4	94	sw			2		10			0.110	2.8	raining	Meteorological Institute
Breslau	29.40	746.8	29.93	760.2	50.9	10.5	74	w.			3		10			0.169	4.3		Royal University Obs'y
Carlsruhe	29.73	755.1	30.19	766.9	53.6	12.0	76	sw.			7		10	sw.		0	0		Albert Senz.
Cassel	29.25	743.0	29.97	761.1	54.7	12.6	71	s.			4		7	s.		0.102	2.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.74	755.5	30.11	764.9	52.7	11.5	83	ssw.			2		10			0.146	3.7		Physical Society.
Friedrichshafen	28.86	733.0	30.30	769.5	50.7	10.4	75	sw.			4		8	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.64	752.9	29.73	755.2	48.4	9.1	95	wsw.			5		10			0.469	11.9		E. Freier.
Kiel	29.58	751.2	29.59	751.6	45.9	7.7	95	wsw.			4		10			0.394	10.0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.50	749.3	29.92	760.0	52.5	11.4	81	ssw.			3		9	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.63	752.7	29.82	757.5	53.4	11.9	81	wsw.			4		9			0	0		Weather Observatory.
Memel	29.53	750.1	29.58	751.3	36.3	2.4	93	sw.			5		10 8						Isserimann.
Munich	28.38	720.9	30.26	768.6	52.3	11.3	60	nw.			6		3	sw.		0.173	4.4		Central Station.
Neufahrwasser	29.60	751.8	29.61	752.2	43.7	6.5	80	w.			5		10			0	0		A. Lothes.
Neustadt, Palatinate	29.58	751.4	30.11	764.8	54.1	12.3	75	sw.			3		10			0	0		Dicknether.
Stuttgart	29.24	742.7	30.14	765.6	53.2	11.8	73	sw.			2		10	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.60	751.7	29.62	752.3	41.9	5.5	94	sw.			4		10 8			0.173	4.4		Profs. Brandes & Reimer
Greek.																			
Athens	29.85	758.2	30.25	768.3	46.4	8.0		n.			2.0		9			0.039	1.0	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.02	762.5	30.07	763.8	69.4	20.8	68	ssw.	17.0	7.6			5			0	0	d. clouds	
Deesa	29.54	750.2	30.02	762.5	73.9	23.3	11	n.	7.0	3.1			1			0	0	d. clouds	
Bombay	29.93	760.1	29.97	761.2	74.8	23.8	52	nnw.	25.0	11.2			0			0	0	blue sky	
Poona, Yarrowda	28.07	712.9	29.92	759.9	81.6	27.6	20	w.	0.0	2.7			0			0	0	blue sky	
Belgaum	27.37	695.3	29.91	759.8	76.6	24.8	45	sw.	5.0	2.2			2	e.	s.	0	0	d. clouds	
Lahore	29.30	744.3	30.09	764.2	59.6	15.3	49	nw.	2.0	0.9			4			0	0	d. clouds	
Roorkee	29.05	737.9	29.98	761.6	63.8	17.7	30	calm	3.0	1.3			0			0	0	blue sky	
Agra	29.45	748.0	30.04	762.9	66.3	19.1	29	w.	4.0	1.8			0			0	0	blue sky	
Nagpur	28.88	733.4	29.92	759.9	81.9	27.6	36	nnw.	2.0	0.9			7	s.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.61	726.7	30.00	761.9	71.0	21.7	38	calm	1.6	0.7			6			0	0	d. clouds	
Lucknow	29.62	752.4	30.01	762.3	65.3	18.5	33	ssw.	3.0	1.3			0			0	0	blue sky	
Allahabad	29.66	753.3	29.98	761.5	66.7	19.3	50	ene.	1.0	0.4			0			0	0	blue sky	
Patna	29.72	754.8	29.91	759.7	72.3	22.4	34	w.	3.0	1.3			0			0	0	blue sky	
Hazaribagh	27.89	708.3	29.94	760.5	68.6	20.3	44	nnw.	6.0	2.7			0			0	0	blue sky	
Cuttack	29.87	758.8	29.96	760.9	77.3	25.2	49	nnw.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	29.88	758.0	29.90	759.5	74.7	23.7	52	s.	5.0	2.2			2			0	0	d. clouds	
Dhubri	29.75	755.5	29.87	758.6	71.8	22.1	56	wsw.	1.4	0.6			8		wsw.	0	0	d. clouds	
Chittagong	29.85	758.3	29.95	760.6	70.4	21.3	67	calm	1.6	0.7			3			0	0	d. clouds	
Sibsagar	29.58	751.3	29.93	760.2	62.9	17.2	79	calm	0	0			7	w.	w.	0	0	d. clouds	
Jeypore	28.58	725.8	30.07	763.7	65.1	18.4	40	nw.	2.5	1.1			0			0	0	blue sky	
Zanzibar	29.78	756.4	29.80	757.0	85.1	29.5	61	ene.	9.9	4.4			0			0	0	blue sky	
Bellary	28.43	722.1			83.8	28.8	30	e.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.67	753.6			84.0	28.9	33	n.	0.3	0.1		3	3			0	0	d. clouds	
ITALIAN.																			
Udine	29.94	760.4	30.36	771.2	45.9	7.7	71	calm	0	0			6			0	0		Prof. Giovanni Olodig.
Milan	29.85	758.2	30.39	771.9	44.8	7.1	60	se.	1.8	0.8			8	nnw.		0	0		Prof. G. V. Schiapparelli
Padua	30.27	768.8	30.38	771.7	42.6	5.9	50	n.	1.8	0.8			1	n.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.42	747.3	30.36	771.2	46.6	8.1	49	s.	2.5	1.1			3	nw.		0	0		Prof. F. F. Denza.
Genoa	30.17	766.2	30.36	771.2	54.1	12.3	71	se.	1.3	0.6			10	s.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.33	770.4	30.38	771.7	43.9	6.6	79	n.	11.2	5.0			0			0	0		Prof. Luigi Guidi.
Florence	30.09	764.3	30.35	771.0	52.9	11.6	51	ne.			2		0			0	0		Prof. Costantino Pittei.
Leghorn	30.21	767.3	30.30	769.5	56.1	13.4	66	sw.	3.1	1.4			0			0	0		Prof. P. Monte.
Rome	30.18	766.5	30.35	771.0	55.4	13.0	55	nnw.	0	0			8			0	0		Prof. P. Tacchini.
Lecce	30.10	764.5	30.36	771.1	52.5	11.4	50	nnw.	11.2	5.0			0			0	0		Prof. C. de Giorgi.
Cosenza	29.42	747.3	30.34	770.7	48.6	9.2	73	sse.	1.8	0.8			0			0	0		Prof. D. Conti.
Cagliari	30.15	765.7	30.34	770.7	61.7	16.5	55	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	30.13	765.3	30.39	771.8	60.3	15.7	68	ne.	1.8	0.8			9			0	0		Prof. G. Cacciatore
Syracuse	30.35	770.9	30.40	772.1	56.5	13.6	45	se.	1.8	0.8			0			0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.87	758.8	30.41	772.5	54.5	12.5	69	w.	1.3	0.6			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.11	764.7	30.14	765.6	27.7	— 2.4	62	nw.			4		10 ks		nw.	0.339	8.6	cloudy	H. Hattori.
Awomori	30.05	763.3	30.09	764.3	21.3	— 5.9	93	sw.	16.4	7.3			10 n			0.453	11.5	snowing	K. Ogawa.
Hakodate	30.06	763.4	30.07	763.7	20.0	— 6.7	100	w.	12.0	5.4			9 n			0.020	0.5	snowing	Y. Souma.
Hamamatsu	30.03	762.7	30.13	765.2	35.0	1.7	65	wnw.			2	5 cs	0	w.		0	0	fair	Sekigawa & Yamasaki.
Hiroshima, I. M. Obs'y	30.18	766.6	30.20	767.0	30.1	2.3	77	n.	3.0	1.3		10 ck	0	w.		0	0	cloudy	Y. Okamoto.
Kagoshima	30.14	765.5	30.15	765.8	44.9	7.2	86	n.			2		10 s			0.378	9.6	overcast	
Kanazawa	30.13	765.3	30.24	768.1	25.3	— 3.7	100	e.	2.9	1.2		0	0			inap.	inap.	clear	S. Endo.
Kioto	30.02	762.5	30.19	766.9	30.5	— 0.8	89	nne.	1.7	0.7			9 s			0	0	cloudy	M. Tojima.
Kochi	30.14	765.5	30.16	766.0	43.3	6.3	76	w.	1.3	0.5			10 n			0.170	4.3	raining	K. Kusunose.
Miasaka	30.13	765.3	30.16	766.0	41.6	5.3	92	wnw.			1		10 s		w.	0.382	9.7	covered	K. Masusaki.
Miyako	29.07	761.2	30.08	764.0	28.0	— 2.2	50	wsw.	1.7	0.7		0	7 s		nw.	0	0	fair	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.95	760.7	30.16	766.0	41.9	5.5	78	calm	0	0			10 s			0.080	2.0		
Nemuro	29.88	758.9	29.93	760.2	14.0	—10.0	66	calm	0	0		0	3 s			0	0	fair	A Shibuya.
Niigata	30.18	766.6	30.22	767.6	33.4	0.8	85	w.	15.9	7.1			10 n		w.	0.005	0.1	overcast	Satoo & Tomikawa.
Nobiru	30.11	764.8	30.13	765.2	28.6	— 1.9	85	nw.	1.5	0.7		0	6 ks			0	0	fair	Yoshino & Midzushina.
Numadzu	30.11	764.8	30.15	765.7	39.8	4.3	71	ene.			2		10 ks			0	0	overcast	T. Ohgi.
Osaka	30.19	766.9	30.21	767.3	33.0	0.6	78	ese.	6.6	2.9		0	0			0	0	clear	H. Omura.
Sakai	30.16	766.1	30.17	766.3	38.8	3.8	64	ene.			2		10 s		e.	0	0	cloudy	Yamawchi & Sakamoto.
Sapporo	29.94	760.6	30.02	762.4	10.0	—12.2	89	w.	3.6	1.6		0	2 s			0.415	10.5	clear	S. Kimura.
Shimonoseki	30.00	762.1	30.15	765.8	40.0	4.4	63	ene.			1		10 s			0	0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.10	764.5	30.18	766.6	35.6	2.0	65	nne.	5.4	2.4			10 s			0	0	covered	The Staff.
Wakayama	30.14	765.6	30.20	767.0	34.9	1.6	66	ne.	1.0	0.4			10ck;s		w.	0	0	cloudy	K. Nakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.64	752.8	29.83	757.7	79.5	26.4	59	e.	5.5	2.5			10ks;n			0	0	overcast	The Staff.
MEXICAN.																			
Leon	24.41	620.0	30.29	769.4	44.2	6.8	79	nne.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.81	757.1	30.07	763.8	66.0	18.9	84	n.	1.9	0.8		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.93	760.3	29.93	760.3	51.1	10.6		wsw.			6					0.083	2.1		
Groningen	29.74	755.4	29.80	756.8	48.9	9.4		w.								0.114	2.9		
Helder	29.76	755.9	29.76	755.9	47.8	8.8		sw.			5					0.020	0.5		
Hellevoetsluis	29.89	759.1	29.89	759.1	50.0	10.0	90	wsw.			0					0.047	1.2		
Utrecht	29.84	758.0	29.90	759.4	52.3	11.3	90	wsw.			6		6			0.101	4.1	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.8			76.8	24.9	83	wsw.	0	0			9			0.106	2.7		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.10	739.1	29.16	740.7	30.3	2.4	79	se.	4	2			5			0.638	16.2		
Brono	29.06	738.2	29.10	739.2	35.6	2.0	71	s.			4		9			0.295	7.5		
Christiania	29.04	737.7	29.19	741.5	30.2	— 1.0	96	e.	4	2			10			0.063	1.6	snowing	
Gjesvær	29.11	739.4	29.13	740.0	30.0	— 1.1		se.			6		10			0	0		
Lodingen	29.04	737.6	29.09	738.8	32.4	0.2	92	sw.			2		10			0.004	0.1	snowing	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira																			Capt. D. A. de Cunha.
Lisbon, Observatory	30.22	767.7	30.32	770.0	61.5	16.4	78	se.	3.1	1.4			10			0	0		The Staff.
Ponta Delgada, Azores	30.06	763.5	30.41	772.3	53.8	12.1	80	ne.	3.1	1.4			0			0	0		
Saint Paul de Loando	29.82	757.3	29.89	759.1	62.6	17.0	86	w.	9.8	4.4			3			2.386	60.6		
St. Vincent, Cape Verd Ids.																			
San Salvador, Congo	30.05	763.2	30.08	764.0	71.2	21.8	84	ne.			2		2			0	0		
Serra da Estrella	28.07	712.9	29.88	758.9	84.4	29.1	55	w.			2		4			0	0		
RUSSIAN.	25.55	649.0	30.37	771.4	44.8	7.1	74	ssw.			2		0			0.008	0.2	foggy	
Akmolinski	29.32	744.7	30.51	775.0	11.3	—11.5	61	ese.	9	4		0	2 s			0	0		Major K. Lasarew.
Archangel	29.52	749.7	29.54	750.2	20.8	— 6.2	93	ese.	9	4			10			0	0		Capt. Sselliwerstow
Ashurada	30.10	764.4	30.00	762.6	49.5	9.7	82	nnw.	11	5		5 ck	0			0	0	light clouds	
Astrakhan	30.28	769.0	30.20	767.0	26.8	— 2.9	96	e.	11	5			10 n			0	0	h'vy clouds	Capt. Wisganow.
Baku	30.10	764.4	30.05	763.2	46.9	8.3	89	calm	0	0		0	3 ks			0	0		
Barnaul	30.26	768.7	30.84	783.1	3.0	—16.1	75	ne.	2	1			0			0	0		Meteorological Office.
Bielosersk	29.17	740.8	29.05	753.1	29.1	— 1.6	98	s.	7	3			10 n			0.008	0.2	snowing	
Dorpat	29.28	743.7	29.53	750.0	33.4	0.8	87	sse	4	2			10 ks			0.213	5.4		Observatory.
Ekaterinburg	29.25	742.9	30.31	769.8	9.7	—12.4	87	se.	7	3			10				0	foggy	Meteorological Obs'y.
Elisawetgrad	29.67	753.6	30.14	765.5	34.7	1.5	82	wnw.	4	2		0	2 k			0	0		
Kasan	29.82	757.3	30.10	764.0	20.5	— 6.4	93	se.	16	7			10			0	0		Observatory.
Kem	29.45	747.9	29.50	749.2	27.3	— 2.0	87	se.	13	6			10			0	0	h'vy clouds	
Kertch	30.02	762.5	30.04	763.1	33.8	1.0	96	nw.	9	4			10 n			0	0		Lagorio & Sastyres
Kieff	29.34	745.1	30.00	761.9	34.5	1.4	80	sw.	7	3		c	5 ks			0	0	light clouds	Observatory.
Koslov	29.40	746.7	29.92	760.0	32.4	0.2	92	wsw.	7	3			10 s			0.098	2.5		
Lgov	29.43	747.4	30.04	763.0	30.2	— 1.0	91	w.	11	5			10			0	0		R. I. Ssaweljew, Engin'r.
Libau	29.37	745.9	29.39	746.5	37.9	3.3	92	wsw.	18	8			10			0.087	2.2		E. Quass.
Lugan	29.78	756.3	29.99	761.7	34.3	1.3	91	sw.	2	1			10			0.047	1.2		Meteorological Obs'y
Moscow	29.34	745.1	29.83	757.7	31.8	— 0.1	78	sw.	4	2		0	2 ks			0	0		Meteorological Obs'y
Nertschinsk	28.11	714.1	30.72	780.4	— 5.4	—20.8	85	calm	0	0			0			0	0		

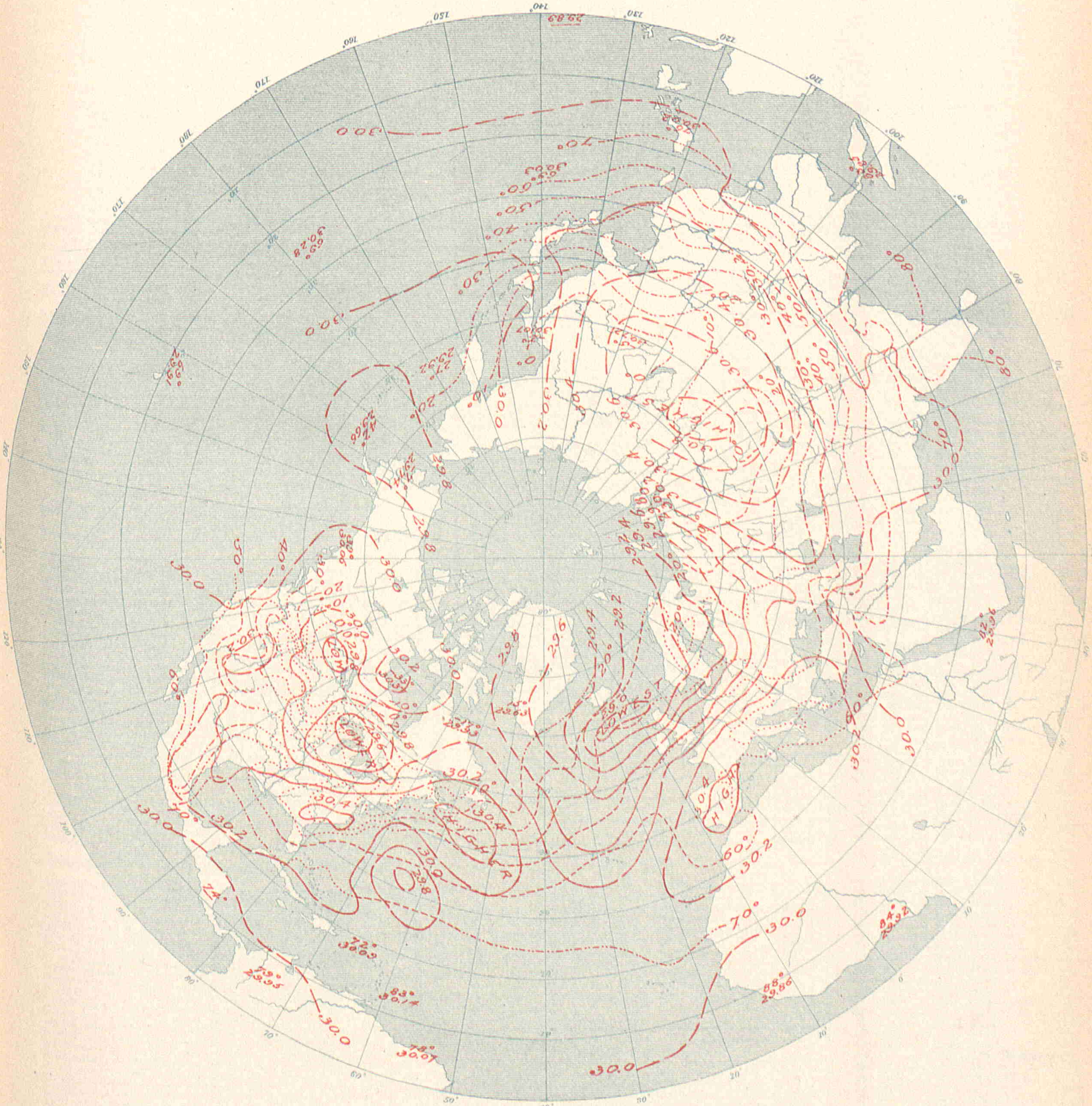
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaiev	30.08	764.0	30.15	765.8	35.2	1.8	78	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaiewsk-on-the-Amoor.	29.98	761.5	30.07	763.7	— 2.2	—19.0	70	nw.	7	3			10 n						Iwanow.
Pekin, China	30.27	768.8	30.41	772.4	30.6	— 0.8	46	nw.	3.4	1.5		0	1 k			0	0		Physical Observatory
Petro-Alexandrovsk	29.80	756.9	30.16	766.1	45.7	7.6	59	e.	1.1	0.5		6 cs	0						
Petrozavodsk	29.28	743.6	29.48	748.7	31.3	— 0.4	85	s.	11	5			10			0.004	0.1		Dr. Bergmann.
Pinsk	29.31	744.5	29.83	757.6	32.4	0.2	94	s.	27	12			10 n					snowing	
Poti	29.93	760.1	29.96	760.9	57.4	14.1	72	e.	4	2		0	0			0	0		
St. Petersburg	29.50	749.3	29.52	749.9	32.5	0.3	78	sw.	9	4			9 kn			0.020	0.5		Central Physical Obs'y.
Samarkand	27.62	701.5	30.12	765.1	47.8	8.8	60	calm	0	0		0	0						
Semipalatinsk	29.99	761.7	30.75	781.1	— 9.9	—23.3	92	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.90	759.5	30.12	765.1	36.9	2.7	80	ne.	20	9			10 n			0.028	0.7		
Staroi Bykhov	29.29	743.9	29.87	758.6	31.6	— 0.2	90	se.	11	5			10			0.157	4.0		
Tashkend, Laboratory	28.48	723.4	30.20	767.0	43.9	6.6	61	nw.	7	3		0	0						Terch, A. M
Tiflis	28.60	726.4	30.06	763.5	40.8	4.9	50	n.	2	1		0	0			0	0		Physical Observatory.
Vernoe	27.62	701.5	30.33	770.3	16.5	— 8.6	83	calm	0	0			10 n						
Viatka	29.32	744.8	29.99	761.7	22.6	— 5.2	96	sse.	18	8			10			0.028	0.7		
Vladivostock	30.24	768.0	30.30	769.6	2.7	—16.3	60	nne.	22	10		0	0			0	0		
Warsaw	29.36	745.7	29.79	756.7	41.4	5.2	92	wnw.	13	6			10 kn			0.189	4.8		Astronomical Obs'y.
Yeniseisk	30.51	775.0	30.83	783.0	14.2	— 9.9	85	w.	7	3			10			blank	blank		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.22	742.2	29.78	756.4	28.8	— 1.8	72	wsw.	8	3.6		0	2 ks		w.	inap.	inap.	clear	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.25	768.4	30.37	771.3	61.5	16.4	66	wsw.								0	0	clear	B. J. Elin.
Bilbao, Met. Obs'y	30.32	770.0	30.37	771.5	61.3	16.3	55	se.	1.3	0.6		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.41	696.3	30.47	773.9	48.2	9.0	67	sw.	2.5	1.1		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.19	716.0	30.47	774.0	54.1	12.3	71	s.	2.5	1.1		0	7			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	30.23	767.9	30.35	771.0	66.6	19.2	73	wsw.	5.6	2.5		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.35	745.5	30.20	768.7	53.1	11.7	76	s.	7.4	3.3			10			0.012	0.3	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.14	765.5	30.20	767.2	69.5	20.8	78	e.	2.2	1.0		0	2 k		e.	0.18	4.5	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.96	761.0	30.02	762.5	76.0	24.4	73	ese.	11.0	4.9		0	8			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.32	770.2	30.42	772.7	57.6	14.2	85	ne.	2.4	1.1		0	2		n.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.00	762.0	30.09	764.3	72.0	22.2	80	calm	0	0		0	2 k		e.	0.020	0.5	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.27	743.4	29.31	744.5	28.8	— 1.8	96	calm			0		10			0.402	10.2		
Umea	29.26	743.3	29.32	744.6	11.5	—11.4	93	calm			0		0			0.071	1.8		
Hernosand	29.24	742.8	29.30	744.1	14.4	— 9.8	87	calm			0		4			0	0		
Stockholm	29.11	739.3	29.28	743.8	32.9	0.5	98	ene.			2		10						
Wisby	29.24	742.8	29.30	744.3	39.2	4.0	87	w.			6		7			0.059	1.5	raining	
Sub-series																			
Upsala	29.19	741.4	29.28	743.6	30.0	— 1.1	96	ne.	3.4	1.5			10			0.165	4.2	snowing	H. H. Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.24	768.0	42.8	6.0	63	ne.	16	7.0			9		ne.	0	0		The Observatory.
Valona			30.32	770.2	52.2	11.2		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	755.9	61.9	16.6	56	ese.			1	cs	9 n		sw.	0.018	0.5		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.18	766.6	30.27	768.8	27	— 2.8	77	s.	5	2.2		5 ck	1 s	nw.	nw.	0.02	0.5	fair	J. O. Barnes.
Alpena, Michigan	28.91	734.3	29.62	752.3	35.2	1.8	100	s.	11	4.9			10 n			0.24	6.1	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	630.8	30.19	766.8	29.8	— 1.2	92	e.	2	0.9			10 s			0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	26.90	683.2	29.94	760.5	6.0	—14.4	76	nw.	24	10.7			10 s		nw.	0.01	0.3	cloudy	F. Newman.
Atlanta, Georgia	29.14	740.1	30.37	771.4	40.0	4.4	100	se.	4	1.8			fg.			0	0	dense fog	S. W. Beall.
Atlantic City, New Jersey	30.30	769.6	30.31	769.9	32.0	0.0	78	e.	3	1.3			10 s			0.18	4.6	cloudy	B. A. Blundon.
Augusta, Georgia	30.23	767.8	30.43	772.9	39	3.9	89	se.	1	0.4		10 ck	fg.	se.		0	0	cloudy	W. J. Evans.
Baltimore, Maryland	30.32	770.1	30.38	771.6	30.0	— 1.1	80	n.	3	1.3			fg.			0	0	dense fog	Geo. W. Felger.
Barnegat City, New Jersey	30.33	770.4	30.35	770.9	32.5	0.3	72	s.	2	0.9			10 s			0.09	2.3	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.20	717.8	30.00	762.0	5.0	—15.0	76	nw.	1	0.4		0	1 s			0.01	0.3	clear	A. Pritchard.
Benton, Fort, Montana	27.04	686.8	30.02	762.5	12.5	—10.8	100	sw.	7	3.1			10 n			0.02	0.5	light snow	Thomas Morgan.
Bismarck, Dakota	27.95	709.9	29.95	760.7	— 4.0	—20.0	100	nw.	1	0.4		0	4 s		nw.	0.02	0.5	fair	B. O. Lenoir.
Block Island, Rhode Island	30.32	770.1	30.36	771.1	28.0	— 2.2	100	se.	3	1.3			fg			0.10	2.5	dense fog	J. T. Eiker.
Boise City, Idaho	27.24	691.9	30.17	766.3	12	—11.1	91	e.	2	0.9		0	0			0.99	25.1	clear	James Kenealy.
Boston, Massachusetts	30.15	765.8	30.32	770.1	27.0	— 2.8	54	nw.	4	1.8			10s; fg		nw.	inap.	inap.	cloudy	O. B. Cole.
Brownsville, Texas	30.09	764.3	30.15	765.8	67.0	19.4	93	e.	12	5.4		0	5 s			0	0	fair	John McGlone.
Buffalo, New York	29.10	740.7	29.95	760.7	34.5	1.4	78	s.	12	5.4			10 s			0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.64	702.0	29.87	758.7	—10.5	—23.6	76	sw.	2	0.9		2 c	0			0.01	0.3	clear	A. Schneider.
Cairo, Illinois	29.64	752.8	30.06	763.5	58.1	14.5	80	sw.	18	8.0			10 ks		sw.	0.01	0.3	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.80	756.9	30.00	762.0	37.0	2.8	89	ne.	2	0.9		0	3 s			0	0	clear	J. H. Young.
Cape Henry, Virginia	30.39	771.9	30.41	772.4	35.0	1.7	89	s.	2	0.9			10 s			0	0	cloudy	A. K. Alderson
Cape May, New Jersey	30.33	770.4	30.36	771.1	32.7	0.4	92	s.	7	3.1			10s; fg			0.07	1.8	cloudy	W. E. Smith.
Cape Mendocino, California	29.19	741.4	29.89	759.2	43	6.1	74	ne.			2	0	5 s		e.	0.03	0.8	fair	A. P. Leavitt.
Cedar Keys, Florida	30.35	770.9	30.37	771.4	51.5	10.8	98	ne.	5	2.2			10 s		ne.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.32	770.1	30.38	771.6	43.0	6.1	93	ne.	4	1.8		0	fg.			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.51	749.5	30.40	772.1	39.1	3.9	90	se.	4	1.8			10 s		s.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.29	769.4	46.0	7.8	88	e.	3	1.3			10 ks		sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.87	606.3	30.14	765.5	24.8	— 4.0	67	w.	20	8.9		0	0			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	28.94	735.1	29.69	754.1	44.0	6.7	94	sw.	12	5.4			10 n			0.13	3.3	light rain	Wm. Norrington.
Chincoteague, Virginia	30.30	771.1	30.38	771.6	31.3	— 0.4	100	calm	0	0			10s; fg		sw.	inap.	inap.	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.34	745.2	30.03	762.7	51.0	10.6	85	sw.	2	0.9			10 s		sw.	0.08	2.0	cloudy	L. Dunne.
Cleveland, Ohio	29.13	739.9	29.91	759.7	43.0	6.1	88	s.	16	7.2			10 s		s.	0.01	0.3	cloudy	W. Line.
Columbus, Ohio	29.10	739.1	30.00	762.0	39.5	4.2	89	se.	2	0.9			fg			inap.	inap.	dense fog	F. T. Williams.
Concho, Fort, Texas	28.13	714.5	30.15	765.8	61.0	16.1	90	s.	8	3.6			10 s			0	0	cloudy	C. E. King.
Custer, Fort, Montana	26.57	674.9	29.95	760.7	— 1	—18.3	72	calm	0	0			10 s			0.01	0.3	cloudy	W. J. Daily.
Davenport, Iowa	28.92	734.6	29.63	752.6	46	7.8	86	w.	11	4.9			fg			inap.	inap.	dense fog	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	30.22	767.6	41.0	5.0	49	calm	0	0		0	4 s			0	0	fair	J. Williams.
Dayton, Washington T'y	28.32	719.3	30.12	765.0	23.6	— 4.7	94	e.	2	0.9		0	3 s			0.01	0.3	clear	H. S. Blandford.
Deadwood, Dakota	25.07	636.8	30.02	762.5	10.2	— 8.8	79	sw.	2	0.9		0	4 k		w.	0.01	0.3	fair	G. Kingsbury.
Delaware Breakwater, Del.	30.36	771.1	30.38	771.6	28.9	— 1.7	100	s.	6	2.7			fg.			0.04	1.0	dense fog	G. A. Martin.
Denver, Colorado	24.65	626.1	30.17	766.3	34.2	1.2	80	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.83	732.3	29.80	756.9	31.8	— 0.1	80	nw.	14	6.3			10 n		nw.	0.04	1.0	light rain	F. W. Conrad.
Detroit, Michigan	29.05	737.9	29.81	757.2	44.0	6.7	83	sw.	20	8.9			10 n			0.04	1.0	light rain	N. B. Conger.
Dodge City, Kansas	27.30	693.4	30.06	763.5	42.5	5.8	36	w.	18	8.0		hz.	1 s			0	0	dense haze	J. E. Lanouette.
Dubuque, Iowa	28.89	733.8	29.66	753.4	38.7	3.7	75	w.	4	1.8			10 n			0.02	0.5	light rain	J. Harvey Smith
Duluth, Minnesota	28.76	730.5	29.57	751.1	22.0	— 5.6	88	nw.	22	9.8			10 s			0.03	0.8	cloudy	E. R. Brace.
Eastport, Maine	30.25	768.3	30.32	770.1	29.0	— 1.7	88	calm	0	0			10 s			0.02	0.5	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.22	691.4	30.15	765.8	48.0	8.9	86	w.	16	7.2			10 s			0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.34	669.0	30.22	767.6	47.0	8.3	44	w.	1	0.4		0	4 s			0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.14	740.1	29.91	759.7	39.0	3.9	94	s.	18	8.0			10 n			0.06	1.5	light rain	O. A. Shaw.
Escanaba, Michigan	28.85	732.8	30.57	776.5	34.0	1.1	88	sw	4	1.8			10 s		s.	0.16	4.1	cloudy	L. M. Pindell.
Fort Smith, Arkansas	29.54	750.3	30.04	763.0	62.2	16.8	84	sw.	7	3.1			10 s		s.	0.02	0.5	cloudy	J. B. Campbell.
Galveston, Texas	30.17	766.3	30.21	767.3	60.0	15.6	96	s.	5	2.2			fg.			0	0	dense fog	E. O'C. Macinerney
Grand Haven, Michigan	28.94	735.1	29.65	753.1	41.0	5.0	92	s.	22	9.8			fg.			0.07	1.8	dense fog	Joseph E. Muelle
Grant, Fort, Arizona	25.27	641.8	30.17	766.3	42.6	5.9	48	ne.	6	2.7			10 s		ne.	0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.35	770.9	30.36	771.1	39.0	3.9	82	ne.	10	4.5	.....	6 k	3 s	ne.	e.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.69	652.5	30.07	763.8	0	—17.8	72	ne.	1	0.4	.....	.....	10 s	.....	.....	0.18	4.6	cloudy	S. W. Morrison.
Huron, Dakota	28.45	722.6	29.99	761.7	— 2.6	—19.2	100	nw.	4	1.8	.....	0	0	.....	.....	0.03	0.8	clear	S. W. Glenn.
Indianapolis, Indiana	29.03	737.3	29.87	758.7	51.0	10.6	86	sw.	10	4.5	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.14	765.5	30.17	766.3	62.0	16.7	100	s.	7	3.1	.....	0	fg.	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.32	770.1	30.37	771.4	46.3	7.9	100	n.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. W. Smith.
Keokuk, Iowa	28.90	736.3	29.09	754.1	52.5	11.4	93	s.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.20	767.1	30.22	767.6	67	19.4	84	ne.	8	3.6	.....	0	1 k	.....	ne.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.40	772.1	30.42	772.7	38.0	3.3	78	ne.	4	1.8	.....	.....	10 s	.....	ne.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.23	742.4	30.31	769.9	33.6	0.9	100	ne.	1	0.4	.....	8 k	fg.	sw.	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.79	731.3	29.63	752.6	33	0.6	78	w	11	4.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	S. C. Emery.
Leavenworth, Kansas	28.98	736.1	29.94	760.5	35	1.7	79	nw.	8	3.6	.....	.....	10s;fg	.....	nw.	0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.31	744.5	30.18	766.6	30.0	— 1.1	78	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.75	755.6	30.08	764.0	62.0	16.7	72	s.	6	2.7	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	W. U. Simons.
Los Angeles, California	29.74	755.4	30.14	765.5	47.5	8.6	89	e.	12	5.4	.....	.....	10 s	.....	e.	0.38	9.7	cloudy	T. S. Collins.
Louisville, Kentucky	29.42	747.3	30.01	762.2	53.2	11.8	91	sw.	15	6.7	.....	0	9 ks	.....	sw.	0	0	threatening	L. M. Dey.
Lynchburg, Virginia	29.63	752.6	30.35	770.9	35.5	1.9	73	s.	1	0.4	.....	.....	10s;fg	.....	sw.	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	28.88	733.5	29.58	751.3	36.5	2.5	96	w.	18	8.0	.....	.....	10 n	.....	w.	0.09	2.3	light rain	D. B. Notson.
Macon, Fort, North Carolina	30.41	772.4	30.42	772.7	37.5	3.1	89	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.24	641.1	30.01	762.2	15.5	— 9.2	67	ne.	10	4.5	.....	.....	10 n	.....	ne.	0.09	2.3	heavy snow	F. Burke.
Marquette, Michigan	28.79	731.3	29.57	751.1	32.0	0.0	92	w.	1	0.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.76	755.9	30.12	765.0	59.0	15.0	81	s.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	28.82	732.0	29.62	752.3	44.2	6.8	91	sw.	7	3.1	.....	.....	10s;fg	.....	.....	0.05	1.3	cloudy	S. W. Rhode.
Mobile, Alabama	30.26	768.6	30.30	769.6	49.6	9.8	97	n.	3	1.3	.....	5 k	5s;fg	nw.	n.	0.01	0.3	cloudy	H. U. Jones.
Montgomery, Alabama	30.09	761.3	30.33	770.4	47	8.3	93	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.78	731.0	29.89	759.2	0	—17.8	100	n.	5	2.2	.....	.....	10 n	.....	n.	0.01	0.3	light snow	H. Bessant.
Mt. Washington, N. H.	23.74	603.0	30.37	771.4	22.0	— 5.6	78	w.	28	12.5	.....	10 cs	0	.....	.....	0.07	1.8	cloudy	Edwd. A. Beals.
Nashville, Tennessee	29.55	750.6	30.16	766.1	53.5	11.9	86	s.	7	3.1	.....	.....	10 ks	.....	sw.	inap.	inap.	cloudy	L. N. Jesunofsky
New Haven, Connecticut	30.22	767.6	30.34	770.6	20.4	— 6.4	100	calm	0	0	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	J. H. Sherman.
New London, Connecticut	30.32	770.1	30.36	771.1	20.0	— 6.7	91	nw.	2	0.9	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.21	767.3	30.27	768.8	54.5	12.5	96	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	M. Herman.
New York, New York	30.17	766.3	30.36	771.1	21.3	— 5.9	100	calm	0	0	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	H. J. Peurod.
Norfolk, Virginia	30.37	771.4	30.40	772.1	35.0	1.7	90	se.	1	0.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	Wm. Davis.
North Platte, Nebraska	26.84	681.7	29.96	761.0	34.1	1.2	76	w	16	7.2	.....	0	0	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington Ter	30.02	762.5	30.06	763.5	31.0	— 0.6	78	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	J. Dascomb
Omaha, Nebraska	28.66	728.0	29.93	760.2	20.5	— 6.4	73	nw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak
Oswego, New York	29.65	753.1	30.00	762.0	32.3	0.2	83	s.	16	7.2	.....	10 cs	0	.....	.....	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.59	751.6	30.17	766.3	63.5	17.5	90	s.	14	6.3	.....	0	5 s	.....	.....	0	0	fair	P. T. Jenkins.
Pensacola, Florida	30.29	769.4	30.32	770.1	52.3	11.3	96	e.	5	2.2	.....	1 cs	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.27	768.8	30.38	771.6	25.5	— 3.6	88	sw.	1	0.4	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.51	444.7	30.21	767.3	— 3.0	—19.4	79	w.	32	14.3	.....	0	0	.....	.....	0.03	0.8	clear	H. Hall.
Pittsburg, Pennsylvania	29.23	742.4	30.08	764.0	40.0	4.4	73	se	7	3.1	.....	.....	10 s	.....	sw.	0	0	cloudy	O. D. Stewart
Poplar River, Montana	.....	.....	.....	.....	—23.9	—31.1	100	w.	.....	.....	2	5 c	3 s	.....	w.	0.20	5.1	cloudy	G. A. Carden.
Port Huron, Michigan	29.00	736.6	29.74	755.4	37.3	2.9	100	s.	20	8.9	.....	.....	10 n	.....	.....	0.32	8.1	light rain	M. H. Perry
Portland, Maine	30.24	768.1	30.30	769.6	27.0	— 2.8	88	nw.	1	0.4	.....	.....	10s;sk	.....	.....	0.03	0.8	cloudy	W. W. Eichelberger.
Portland, Oregon	29.95	760.7	30.02	762.5	31.0	— 0.6	96	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.84	630.9	30.22	767.6	29.0	— 1.7	80	calm	0	0	.....	0	0	.....	.....	0.10	2.5	clear	N. D. Lane.
Provincetown, Mass.	30.29	769.4	30.32	770.1	34.0	1.1	88	calm	0	0	.....	.....	10s;sk	.....	.....	0.01	0.3	cloudy	C. N. Kitchel.
Red Bluff, California	29.66	753.4	30.03	762.7	40	4.4	100	n.	2	0.9	.....	0	5 n	.....	s.	0.99	25.1	light rain	J. R. Williams.
Rio Grande City, Texas	29.09	761.7	30.24	768.1	66.5	19.2	88	s.	12	5.4	.....	0	6 ks	.....	se.	0	0	fair	L. G. Schultz.
Rochester, N. Y.	29.29	744.0	30.00	762.0	31	— 0.6	94	s.	7	3.1	.....	.....	10s;fg	.....	.....	inap.	inap.	cloudy	E. W. McGann.
Roseburg, Oregon	29.40	746.7	29.97	761.2	37.2	2.9	83	ne.	2	0.9	.....	.....	10 s	.....	w.	0	0	threatening	J. J. Nanry.
Sacramento, California	29.90	759.4	29.98	761.5	44.5	6.9	96	s.	2	0.9	.....	0	3 s	.....	sw.	0.90	22.9	clear	J. A. Barwick
St. Louis, Missouri	29.19	741.4	29.85	758.2	56.7	13.7	83	s.	32	14.3	.....	.....	10k;s	.....	sw.; s.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.70	754.4	29.74	755.4	— 7	—21.7	100	sw.	.....	.....	2	3 cs	0	sw.	.....	0.02	0.5	clear	Fred. H. Clarke
St. Paul, Minnesota	28.76	730.5	29.70	754.4	15.5	— 9.2	91	w.	12	5.4	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.87	733.3	29.85	758.2	— 9	—22.8	84	nw.	2	0.9	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.67	652.0	30.24	768.1	34.7	1.5	69	se.	4	1.8	.....	0	2 s	.....	.....	inap.	inap.	clear	J. Craig.
San Diego, California	30.04	763.0	30.11	764.8	47.0	8.3	81	se.	6	2.7	.....	0	0	.....	.....	0.02	0.5	clear	F. R. Day.
Sandusky, Ohio	29.15	740.4	29.87	758.7	43.5	6.4	88	sw.	12	5.4	.....	.....	10 ks	.....	sw.	0.08	2.0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.34	770.6	30.37	771.4	25.7	— 3.5	88	n.	4	1.8	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	Y. P. Chappel.
Sanford, Florida	30.26	768.6	30.31	769.9	51.0	10.6	96	nw.	6	2.7	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	J. B. Marbury
San Francisco, California	29.88	758.9	29.95	760.7	48.8	9.3	87	se.	8	3.6	.....	0	2 s	.....	sw.	1.13	28.7	clear	N. Gorom.
Savannah, Georgia	30.29	769.4	30.39	771.9	39	3.9	87	nw.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	R. M. Geddings.
Shaw, Fort, Montana	26.12	663.4	29.98	761.5	29	— 1.7	67	sw.	24	10.7	.....	.....	10 s	.....	.....	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.90	759.4	30.15	765.8	56.3	13.5	88	s.	2	0.9	.....	.....	10 s	.....	s	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	29.99	761.7	30.06	763.5	38.8	3.8	76	e.	7	3.1	.....	.....	10 n	.....	e.	0.20	5.1	light rain	F. W. Fickett.
Smithville North Carolina	30.36	771.1	30.40	772.1	35.5	1.9	83	ne.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.99	710.9	30.13	765.3	24.0	— 4.4	82	sw.	1	0.4	.....	.....	10 n	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.05	737.9	29.78	756.4	50.9	10.5	94	s.	16	7.2	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.02	686.3	30.16	766.1	46.0	7.8	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.98	761.5	.....	.....	37.0	2.8	71	e.	14	6.3	.....	0	0	.....	.....	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.36	691.9	30.19	766.8	40.2	4.6	89	calm	.....	.....	0	.....	10 s	.....	.....	0	0	cloudy	R. O. Lord.
Toledo, Ohio	29.10	739.1	29.84	757.9	43.5	6.4	98	sw.	10	4.5	.....	.....	10 n	.....	.....	0.15	3.8	thund'r st'm	A. Buell.
Unalashka, Alaska	29.64	752.8	29.66	753.4	42	5.6	82	s.	4	1.8	.....	.....	10 s	.....	.....	0.32	8.1	cloudy	Samuel Applegate.
Vicksburg, Mississippi	29.97	761.2	30.24	768.1	55.0	12.8	93	s.	7	3.1	.....	.....	fg.	.....	.....	0	0	dense fog	C. Dill.
Washington, D. C.	30.24	768.1	30.36	771.1	27.2	— 2.7	95	n.	1	0.4	.....	4 cs	fg.	.....	.....	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	25.99	660.1	30.12	765.0	34	1.1	42	sw.	6	2.7	.....	0	4 s	.....	w.	0	0	fair	F. H. Brandenburg.
Wilmington, N. Carolina	30.35	770.9	30.41	772.4	36.0	2.2	79	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	28.55	725.2	29.97	761.2	9.3	—12.6	81	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.92	760.0	30.07	763.8	48.9	9.4	92	ne.	1	0.4	.....	0	1 s	.....	w.	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.90	759.4	29.92	760.0	27.4	— 2.6	85	ne.	16	7.2	.....	.....	10 n	.....	.....	0.06	1.5	snowing	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	72	22.2	.....	nw.	.....	.....	2	0	8 n	.....	ne.	0.38	9.7	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.01	559.1	.....	.....	52.7	11.5	83	calm	0	0	.....	.....	9 k	.....	e	.....	.....	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.77	756.1	29.93	760.2	—17	—27.2	100	calm	0	0	.....	5 c	0	sw.	.....	0	0	fair	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.10	764.5	65.8	18.8	89	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	e.	.....	.....	2	3 c	4 k	e.	.....	0.180	4.6	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.95	760.7	79	20.1	89	calm	.....	.....	0	.....	10 ks	.....	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	90	ne	.....	.....	2	.....	.....	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	30.30	769.6	30.37	771.4	—33.0	—36.1	.....	nw.	11	4.9	.....	1 c	1 s	nw.	nw.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.97	761.3	29.98	761.6	77.4	25.2	88	n.	13.4	6.0	.....	0	4 k	.....	n.	.....	.....	fair	P. Fasiani.
Naós, Bay of Panama	29.91	759.8	29.98	761.5	73.8	23.2	88	nnw.	.....	.....	4	0	3 s	.....	n.	.....	.....	clear	Antonio Fabre.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 49° 55′, W. 8° 10′ †	30.04	763.0				wsw.			3		6?		w.	4 h'r	4 h'r	mod.	w.	clear.?
S. S. Alleghany, Baltimore, Md †	30.33	770.4	28	— 2.2		calm			0		10		e.					dense fog.
Schr. Anna A. Holton, N. 37° 41′, W. 73° 52′ *†	30.30	769.6				ne.			2		10		ne	6 h'r	6 h'r	mod.	ne.	overcast.
S. S. Alps, N. 18° 28′, W. 66° 06′			82	27.8		calm			0		0			0	0	short		fine.
S. S. British Prince, Philadelphia, Pa			26	— 3.3		var.			2		10		nw.	6 h'r	6 h'r			foggy.
S. S. Circassian, N. 46° 32′, W. 45° 10′	30.12	765.0	21	— 6.1		nnw.			4		5		nnw.			5	n.	d. clouds.
S. S. City of Augusta, New York, N. Y						ssw.			2		10		nnw.					light snow.
S. S. Denmark, New York, N Y†	30.39	771.9	24	— 4.4	100	calm			0		10			0	0			foggy.
S. S. Daniel Steinmann, New York, N.Y †	30.31	769.9				calm			0		10							dense fog.
S. S. France, N. 48° 31′, W. 27° 25′						calm			0		10			0	0	r'gh	w.	covered.
S. S. Gen. Werder, N. 40° 23′, W. 71° 50′	30.39	771.9				ene.			1		10		e.	4 h'r	4 h'r	sm'h	ene.	hazy
Bg. Lilian, N 30° 35′, W. 65° 25′†	29.84	757.9				wnw.			6		5		wnw.	½ h'r	½ h'r	r'gh	var.	squally.
S. S. Llandaff City, New York, N. Y *†	30.36	771.1	21	—6.1		calm			0		10							foggy.
S. S. Lessing, N. 46° 38′ W. 33° 44′			43	6.1		n.			5		7		nne.	½ h'r	½ h'r	long	wnw.	cloudy.
S. S. Mentmore, N. 43° 58′, W. 51° 25′						n.			6		2?		n.	0	0	mod.	n.	cloudy.?
S. S. Nova Scotian, N 46° 01′ W. 32° 08′	29.65	753.1	44	6.7		nw.			4		10		nw.			con.	w.	showery.
S. S. Pavonia, N. 41° 48′, W. 62° 09′	30.38	771.6	49	9.4	85	se.			4		10		se.	2 h'r	2 h'r	mod	se.	cloudy.
S. S. Picqua, N. 41° 10′, W. 72° 30′*†	30.40	772.1	26	—3.3		sw.			1					0	0			foggy.
S. S. Romano, New York Harbor, N. Y	30.32	770.1	31	— 0.6		ne.			3		10							dense fog.
Bgt. Sunlight, N. 37° 52′, W. 73° 39′						nne.			5		10		ne.	6 h'r	6 h'r	r'gh	ese.	cloudy.
S. S. Thingvalla, New York, N.Y †.	30.26?	768.6?	23.0	— 5		calm			0									foggy.
S. S. Valencia, N. 32° 44′, W. 71° 49′ †	30.23	767.8	60	15.6	76	var.			8		7		n.	0	0	h'vy	nnw.	fair.
S. S. Andes, N. 28° 20′, W. 74° 14′ *†	30.30	769.6	66	18.9		n.			3					0	0			cloudy.
Bk. Ariadne, New York, N. Y.	30.38	771.6	20	— 6.7		wsw.			1		fg.			5 h'r	5 h'r			foggy.
Schr Annie R. Lewis, Cienfuegos, Cuba, W.I			72	22.2		nne.			2		0			4 h'r	4 h'r			clear.
Schr. Arthur Burton, N. 23° 50′, W. 81° 30′ †	30.27	768.8				ne.			5		5		ne.	3 h'r	3 h'r	r'gh.	ne.	threatening.
Bk. Aureola, N 29° 57′, W. 69° 04′. †	30.00	762.0				nw.			7		8		nw.	2 h'r	2 h'r	h'vy	nw.	cloudy
U. S. S. Alliance, Cape Haytien, Hayti, W.I	30.15	765.8	73	22.8	85	s.			1		2		calm	h'vy	h'vy	sm'h		clear.
S. S. Britannic, N. 49° 12′ W. 37° 25′ *†	29.79	756.7	40	4.4		nw.			5		3		nw.	0	0	mod.	wnw.	d. clouds.
S. S. British Princess, N. 48° 30′ W. 27° 30′†	29.60	751.8	45	7.2		sw.			2		10 ks		sw.	0	0	high	wsw.	overcast.
S. S. Chalmette, N. 25° 15′, W. 80° 10′ †	30.25	768.3	71	21.7		ne.			5		5		ne.	0	0	mod.	ne.	fair.
S. S. Donau, N. 47° 47′, W. 36° 58′	29.75	755.6	42.8	6.0		nne.			6		7		n.	5 h'r	5 h'r	long	n.	fair.
S. S. England, N. 49° 42′ W. 32° 02′	29.68	753.9				n.			4		10		n.	snow	snow	high	nw.	squally.
Schr. Ellen Crusoe, N. 39° 56′ W. 73° 10′ *†	30.34	770.6				calm			0				e.			long		light rain.
S. S. Gallia, N. 49° 54′, W. 24° 19′			41	5.0		w.			4		10		w.	shr's	shr's	cross		
Bg. George, N. 30° 18′, W. 71° 20′ *†	30.20	767.1				nnw.			5		8		n.	0	0	r'gh	nnw.	cloudy.
S. S. Grecian, Dunkirk, Belgium	29.92	760.0	53	11.7	86	ssw.			5		10		sw.	3 h'r	3 h'r			overcast.
S. S. Holland, N. 47° 40′ W. 37° 44′*	29.71	754.6	34	1.1		n.			6		10		wnw.	18 h'r	18 h'r	mod.	wnw.	overcast.
S. S. Hermann, N. 49° 30′, W. 13° 06′	29.90	759.4	52.7	11.5	93	wsw.			5		9		wsw.	4 h'r	4 h'r	r'gh	wsw.	cloudy.
S. S. Lord Clive, N. 50° 06′, W. 13° 29′						sw.			4		10		sw.	8 h'r	8 h'r	high	w.	dull.
S. S. Muriel, N. 22° 30′, W. 65° 20′	30.16	766.1	26	— 3.3		n.			3		0			0	0	mod.	ne.	clear.
S. S. Ontario, Halifax, N.S	30.34	770.6				var.			1					0	0			misty.
S. S. Rhaeti, N. 50° 06′, W. 23° 44′			46	7.8	83	wsw.			3–4		3		w.	6 h'r	6 h'r	mod.	w.	fair.
Bk. Saga, N. 36° 20′, W. 73° 37′ *†	30.32	770.0	54	12.2		var.			5–9		9		nne.	5¾ hr	5¾ hr	r'gh		cloudy.
S. S. State of Nebraska, N. 55° 25′, W. 11° 20′*†	29.40	746.7	42	5.6		wsw.			8		5		w.	0	0	high	wsw.	halling.
S. S. Samaria, Liverpool, Eng	29.76	755.9	45	7.2		w.			5		9		w.	0	0			cloudy.
S. S. Salerno, N. 49° 08′, W. 29° 13′†	29.60	751.8	42	5.6		w.			3		6		wsw.			mod.	wsw.	fair.
S. S. St. Laurent, N. 49° 25′, W. 20° 40′			51.8	11		ssw.			4		7		ssw.	0	0	large	sw.	fair.
U S. S. Swatara, off Gonaive, Hayti, W. I	30.14	765.5	76	24.4	73	e.			3		2		e.	0	0			clear.
U. S. S. Tennessee, N. 15° 52′, W. 82° 01′	30.02	762.5	77	25.0	77	ne.	22	9.8			2		ne.	0.10	2.5	mod.	ne.	clear.
U. S. S. Vandalia, La Guayra, Venezuela	30.02	762.5	78	25.6	82	calm			0		2		calm					clear.
S. S. Wyoming, N. 50° 16′ W. 23° 49′	29.05	753.1	42	5.6		wsw.			2		8		wsw.	4 h'r	4 h'r	h'vy	wnw.	cloudy.
S. S. Westernland, N. 50° 02′, W. 19° 00′	29.68	753.9	51	10.6		w.			3		7		w.	2 h'r	2 h'r	high	w.	fair.
S. S. Zeeland, N. 46° 03′, W. 42° 13′			33	0.6		w.			6		5		w.	snow	snow	h'vy	w.	snowy.
U. S. Navy Yard, Portsmouth, N. H*	30.36	771.1	25	— 3.9	87	w.	4	1.8			2		sw.	0	0			fair.
U. S. S. Kearsarge, Civita Vecchia, Italy	30.32	770.1	57	13.9	75	se.			4		10							cloudy.
U. S. S. Lancaster, Leghorn, Italy			53	11.7	93	calm			0		0			0	0	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	30.35	770.9	25	— 3.9	100	e.			1		10					sm'h		foggy
U. S. S. Quinnebaug, Leghorn, Italy	30.30	769.6	59	15.0	65	e.			1		0					sm'h		clear.
U. S. S. Shenandoah, Porto Praya, Cape Verd Ids *	30.08	764.0	77	25.0	77	ne.			3		2		s.			sm'h		fair.
U. S. S. Trenton, Marseilles, France	30.36	771.1	56	13.3	75	calm			0		2		calm					clear.
H. M. S. Alexandra, Malta, Mediterranean	30.41	772.4	60	15.6	60	nne.			1		0							blue sky.
H. M. S. Alecto, N. 8° 30, W. 13° 15′	29.97	761.2	86	30.0		nne.			1		0							misty.
H. M. S. Comus, N. 35° 10′, W. 21° 40′	30.11	764.8	64	17.8	94	sse.			5		8					4	ssw.	
H. M. Dockyard, Bermuda, Atlantic	28.78?	731.0?	63	17.2	62	wnw.			6		5	nnw.						squally.
H. M. S. Minotaur, Palmas Bay, Sardinia	30.41	772.4	59	15.0	88	nw.			2		1							blue sky.
H. M. S. Tyne, N 23° 48′, W. 19° 11′	30.07	763.8	68	20.0	74	ne.			4		10	calm				3	ne.	misty
H. M. S. Woodlark, N. 33° 33′, E 19° 16′			59	15.0	65	nw.			6		6	nw.				6	wnw.	squally.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.92	759.9	84.4	29.1	84	sw.			3		4			0	0	2	sw.	d. clouds.
S. S. Ohio, (Am) Philadelphia, Pa*†	30.37	771.4	23	— 5.0	100	sw.			1		10			3 h'r	3 h'r			cloudy.
S. S. Pennsylvania, N. 50° 18′, W. 31° 12′†	29.68	753.9	35	1.7	100	baff			6		9		ne.	8 h'r	8 h'r	h'vy	n.	squally.
S. S. Prussian, N. 43° 20′ W. 56° 43′	30.50	774.7	28	— 2.2		wsw.			3		3		sw.	0	0	sm'h	w.	clear.
S. S. Scandinavian, N. 45° 48′, W. 48° 31′	30.27	768.8	28	—2.2		wnw.			5		0			0	0	mod.	nw.	blue sky.
S. S. Ailsa, N. 17° 56′, W. 76° 46			73	22.8	95	ne.			1		2		ne.	0	0	sm'h		fine.
S. S. Carroll, N. 43° 18′, W. 66° 07′*	30.40?	772.1?	34?	1.1?		se.			1		3		se.	0	0	short	se.	fair.
S. S. Bohemia, Hamburg, Germany						w.			3–6		10		w.	12 h'r	12 h'r			raining.
S. S. Virginian, N 49° 41′, W. 27° 35′			41	5.0		wnw.			6				w.	0	0	r'gh	w.	
S. S. Hevelius, Liverpool, Eng*†	29.65?	753.1?	44	6.7		w.			4		5?		w.	0	0			overcast.
S. S. Olbers, N. 50° 20′, W. 13° 38	29.83	757.7	50	10.0	93	sw.			6		9							dull.
S. S. City of Washington, N. 22° 52′, W. 85° 16′ *†	30.25	768.3	77	25.0		ne.			5		2		ene.	0	0	sm'h		fine.
S. S. Erin, London, Eng	29.87	758.7	58	14.4		w.			3		5		w.	4 h'r	4 h'r			hazy.
S. S. Greece, N. 41° 56′ W. 53° 53′†	30.54	775.7	33	0.6	100	ne.			3		2		ne.	0	0	sm'h	nne.	clear.
S. S. Salier, N. 49° 10′, W. 29° 01′*	29.62	752.3				wnw.			1–2		8		nw.	4 h'r	4 h'r	h'vy	var.	cloudy.
S. S. Rhynland, English Channel	30.01	762.2	54	12.2	93	ssw.			4		10			shr's	shr's	sm'h		foggy.
S.S. Waesland, N. 43° 25′. W. 53° 32′	30.51	774.9	30	— 1.1		nnw.			4		2		nnw.	0	0	mod.	n.	clear.
S. S. State of Nevada, Glasgow, Scotland*†	29.24	742.7	47	8.3		ssw.			6		5		ssw.					squally.
S. S. Saxon, N. 40° 15′, W. 73° 15′			35	1.7		e.			1		10					r'gh	se.	threatening
S. S. Celtic, Liverpool, Eng			53	11.7		wnw.			6		5?		w.	7 h'r	7 h'r			clear.?
S. S. Marengo, off Spurn Head, Eng			47	8.3		sw.			6		8		sw.	4 h'r	4 h'r	sl't	wsw.	cloudy.
S. S. Rialto, N. 43° 59′. W. 33° 00′ †	29.68	753.9	52	11.1		wsw.			6		8		w.	0	0	mod.	w.	cloudy.
Bg. Alcira, Maracaybo, Venezuela			77	25.0		ne.			2		1		ne.	0	0			clear.
S. S. Antonio Lopez, Cadiz, Spain	30.40	772.1	65	18.3	76	wnw.			2		1							misty.
Schr. Adda Doane, N. 21° 40′, W. 74° 18′ †	30.20	767.1				ene.			4		6		ene.	1 h'r	1 h'r	long	ne.	fair.
Bgt. Achsah, Clementsport, N. S†	30.30	769.6	20	— 6.7		calm			0		10		w.	0	0			cloudy.
Bk. Bayonnaise, N. 35° 52′, W. 23° 27′			62.6	17.		sw.			8		9		sw.	5 h'r	5 h'r	h'vy	sw.	squally.
Bk. Chas Stewart, N. 36° 00′, W. 27° 00′						w.			6		3		nw.	shr's	shr's	r'gh	var.	fair.
Schr. C. R. Flint, N. 24° 00′, W. 56° 58′ †	30.08	764.0	75	23.9		wsw.			4		3		sw.	2 h'r	2 h'r	long	ne.	hazy.
Schr. Clotilde, N. 32° 13′, W. 75° 10′ †	30.30	769.6	63	17.2		nne.			5		0			0	0	mod.	nnw.	clear.
Bk. Celestina, N. 7° 21′ W. 25° 20′ *†	30.02	762.5				ne.			2		0			0	0	long	s.	hazy.
S. Dora, N. 58° 56′, W. 23° 32′ *†	28.95	735.3	42.8	6 0		n.			5		8		e.	5 h'r	5 h'r	long	wsw.	cloudy.
S. E. J. Spicer, N. 46° 52′, W. 16° 00′	29.90	759.4	57	13.9	100	ssw.			3		10		ssw.	16 h'r	16 h'r	mod.	w.	cloudy
Bk. Fred. W Carlon, N. 24° 15′, W. 80° 30′†	30.29	769 4				ene.			6		7		e.	1 h'r	1 h'r	r'gh	ne.	fair.
S. Hedwig, N 36° 20′ E. 14° 57′	30.41	772.3	59.7	15.4	66	e.			1		0			0	0	2	e.	clear.
Bk. Hattie G. McFarland, Ship Island, Miss						ese.			2		7		sw.	0	0			cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. Henry, N, 36° 09′, W 2° 23′	.....	.....	58.5	14.7	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	foggy.
Bg. John Wesley, Havana, Cuba, W. I	.....	.....	.....	.....	.....	nne.	.....	.....	6	.....	5	.....	nne.	0	0	.....	.....	fair.
Schr. John L. Thomas, Hobbles Cays, C. A †	30.02	762.5	77	25.0	86	nne.	.....	.....	4	.....	2	.....	ne.	0	0	mod.	nne.	clear.
Bg. L & W. Armstrong, N. 16° 09′, W. 61° 54′	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. O. Laurel, Key West, Fla†	30.24	768.1	67	19.4	.....	ne.	.....	.....	3	.....	4	.....	ene.	0	0	.....	.....	fair.
S. S. Madrid, N. 53° 30′, E. 0° 45′ †	29.73	755.1	46	7.8	84	ssw.	.....	.....	7	.....	4	.....	ssw.	0	0	.....	.....	fair.
Schr. Maria Matilda, N. 27° 00′, W. 75° 30′	.....	.....	70	21.1	61	nnw.	.....	.....	3	.....	8	.....	n.	0	0	long	n.	fine.
Schr. Norena. N. 29° 30′, W. 62° 30′	.....	.....	.....	.....	.....	wnw.	.....	.....	4	.....	5	.....	wnw.	12 h'r	12 h'r	mod.	var	showery.
S. Parker M. Whitmore, N. 19° 17′, W. 37° 59′ *†	30.12	765.0	76	24.4	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bg. Rising Sun, N. 10° 00′, W. 57° 40′†	30.05	763.3	79	26.1	.....	ene.	.....	.....	5	.....	2	.....	ene.	0	0	long	e.	clear.
Bk. Rosalie, N. 51° 22′, W. 9° 36′*†	29.97	760.0	.....	.....	.....	wsw.	.....	.....	6	.....	3	.....	w.	0	0	long	w.	fair.
S. Salisbury, N. 18° 06′, W. 54° 05′	30.19	766.8	76.6	24.8	80	ese.	.....	.....	2-3	.....	0	.....	.....	0	0	mod.	var.	clear.
Bk. Silica, N. 35° 16′, W. 49° 22′	.....	.....	.....	.....	.....	ene.	.....	.....	6	.....	8	.....	ene.	.....	.....	mod.	.....	cloudy.
Bk. Tuck Sing, N. 21° 30′, W 83° 30′*†	30.15	765.8	.....	.....	.....	ne.	.....	.....	4	.....	2	.....	ene.	0	0	sm'h	.....	fine.
Bg. Teneriffe, N. 32° 50′, W. 72° 52′	30.23	767.8	.....	.....	.....	n.	.....	.....	5	.....	5	.....	n.	0	0	5	n.	
S. S. City of Alexandria, Vera Cruz, Mexico *†	30.26	768.6	69	20.6	.....	nnw.	.....	.....	1	.....	.....	.....	.....	.....	.....	small	n.	blue sky.
S. S. Crescent City, N. 28° 47′, W. 73° 34′*†	30.25	768.3	63	17.2	.....	n.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	nne.	overcast.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.87	758.7	76	24.4	82	n.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Pinta, S. 27° 40′, W. 45° 54′	30.03	762.7	78	25.6	82	ssw.	.....	.....	1	.....	5	.....	s.	.....	.....	sm'h	.....	fair.
H. M. S. Amethyst, Port Belgrano, La Plata	29.72	754.9	75.5	24.2	82	n.	.....	.....	5	.....	1	e.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Bonaicea, Ascension Island, Africa	29.98	761 5	80	26.7	.....	ese.	.....	.....	2	.....	4	ese.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	30.03	762.7	74	23.3	63	sse.	.....	.....	3	.....	3	sse.	.....	.....	.....	.....	.....	squally.
S. S. Sirius, Rio de Janiero, Brazil	29.94	760.5	.....	.....	.....	calm	.....	.....	0	.....	1	.....	w.	0	0	.....	.....	clear.
S. S. Teniers, S. 14° 44′, W. 34° 13′	30.03	762.7	82.5	28.1	75	n.	.....	.....	4	.....	4 k	.....	.....	0	0	con.	ene.	blue sky.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.01	762.2	78	25.6	.....	w.	.....	.....	2	.....	5	.....	sw.	0	0	.....	.....	fair.
Bkt. Levanter, S. 31° 49′, W. 48° 35′*	29.93	760.2	76	24.4	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	long	se.	clear.
S. St. David, S. 24° 39′, W. 23° 00′ *†	30.23	767.8	80	26.7	82	ne.	.....	.....	4	.....	6	.....	ne.	½ h'r	½ h'r	light	ne.	squally.
S. David Stewart, S. 8° 33′, W 34° 22′ †	29.82	757.4	85	29.4	.....	e.	.....	.....	3	.....	2	.....	ese.	0	0	mod.	se.	hazy.
Bk. Winifred, S. 23° 23′, W. 42° 55′ *†	29.95	760.7	.....	.....	.....	var.	.....	.....	.....	.....	.....	.....	var.	0	0	.....	.....	clear.
Bk. Godeffroy, S. 26° 49′, W. 20° 47′	30.12	765.0	77.9	25.5	80	nne.	.....	.....	4	.....	5	.....	nne.	0	0	mod.	w;n.	fair.
S. Oreola, S. 7° 06′, W. 31° 04′ *	29.97	761.2	.....	.....	.....	ese.	.....	.....	5	.....	2	.....	e.	0	0	sm'h	.....	clear.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	30.11	764.8	37.5	3.1	45	nnw.	.....	.....	2	.....	10	.....	w.	0	0	.....	.....	gloomy.
U. S. S. Adams, Sitka, Alaskat	30.05	763.3	38	3.3	90	ese.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
U. S. S. Alert, N. 17° 36′, E. 155° 24′	30.00	762.0	77	25.0	86	ene.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	ne.	clear.
U. S. S. Essex, Canton, China	29.98	761.5	71	21.7	85	sse.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Juniata, Shanghai, China	30.30	769.6	39	3.9	91	ne.	.....	.....	2	.....	10	.....	.....	light	light	.....	.....	snowing.
U. S. S. Monocacy, Shanghai, China	30.30	769.6	38	3.3	90	nw.	.....	.....	2	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
U. S. S. Richmond, Shanghai, China	30.30	769.6	.....	.....	91	nne.	.....	.....	2	.....	10	.....	nne.	0.50	12.7	.....	.....	rain & snow.
H. M. S. Audacious, Hong Kong, China	30.01	762.2	64	17.8	94	e.	.....	.....	1	.....	10	e.	.....	.....	.....	.....	.....	misty.
H. M. S. Cleopatra, off Amoy, China	30.03	762.7	63	17.2	78	e.	.....	.....	3	.....	10	e.	.....	.....	.....	sm'h	.....	overcast.
H. M. S. Champion, Shanghai, China	30.33	770.4	.....	.....	.....	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	rain & snow.
H. P. M. S. Tamega, Macao, China	30.01	762.3	68.0	20.0	89	e.	.....	.....	3	.....	8	.....	.....	0	0	.....	.....	d. clouds.
S. S. Newbern, N. 36° 21′, W. 121° 54′ *†	30.02	762.5	55	12.8	65	ese.	.....	.....	3	.....	6	.....	se.	light	light	long	ssw.	cloudy.
S. S. Oregon, San Francisco, Cal†	29.96	761.0	48	8.9	92	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Alameda, Honolulu, Sandwich Ids†	29.91	759.7	69	20.6	80	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Ancon, San Pedro, Cal.†	30.10	764.5	55	12.8	81	nw.	.....	.....	3	.....	8	.....	se.	0	0	.....	.....	cloudy.
S. S. City of Chester, San Francisco, Cal.†	29.93	760.2	48	8.9	85	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	
S. S. Orizaba, N. 37° 12′, W. (119?)° 40′†	29.93	760.2	51	10.6	79	e.	.....	.....	3	.....	10	.....	se.	sh'rs	sh'rs	long	se.	raining.
S. S. Queen of the Pacific, San Francisco, Cal†	29.95	760.7	50	10.0	93	ne.	.....	.....	1	.....	0	.....	.....	to h'r	to h'r	.....	.....	clear.
S. S. State of California, N. 38° 32′, W. 124° —′ †	29.93	760.2	51	10.6	65	e.	.....	.....	4	.....	6	.....	ese.	.....	.....	short	se.	
S. S. City of Rio de Janeiro, N. 25° 30′, E. 175° 13′†	30.28	769.1	69	20.6	.....	ne.	.....	.....	2	.....	2	.....	nw.	.....	.....	large	se.	clear.
S. S. City of Sydney, San Francisco, Cal.*†	29.92	760.0	50	10.0	93	ene.	.....	.....	4	c	6 k	.....	ene.	.....	.....	.....	.....	fair.
S. S. Granada, Panama, Panamat†	29.93	760.2	75	23.9	81	nw.	.....	.....	1	.....	0	.....	.....	0	0	light	nw.	clear.
S. S. San Blas, San Jose, Cal †.	29.90	759.4	73	22.8	90	ne.	.....	.....	3	.....	0	.....	.....	0	0	small	se.	hazy.
S. S. Zealandia, N. 15° 44′, W. 160° 18′	.....	.....	75	23.9	77	e.	.....	.....	2	.....	.....	.....	e.	2 h'r	2 h'r	long	ese.	fine.
Bk. Alpheus Marshall, N. 26° 45′, E. 138° 48′*†	30.03	762.7	69	20.6	80	sse.	.....	.....	3	.....	8	.....	nw.	0	0	mod.	nw.	threatening.
S. Carondelet, N. 0° 35′, E. 137° 33′*†	29.89	759.2	.....	.....	.....	n.	.....	.....	1	.....	0?	.....	.....	6 h'r	6 h'r	mod.	n.	rainy.?
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 8° 10′, W. 105° 25′	30.01	762.2	75	23.9	95	ese.	.....	.....	4	.....	5	.....	ese.	light	light	sm'h	e.	fair.
U. S. S. Lackawanna, S. 6° 49′, W. 81° 13′	29.91	759.7	75	23.9	86	sse.	.....	.....	1	.....	8	.....	se.	.....	.....	sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.05	763.3	70	21.1	95	calm	.....	.....	0	.....	5	.....	se.	.....	.....	mod	w.	fair.
U. S. S. Wachusetts, Callao, Peru*	30.00	762.0	71	21.7	90	se.	.....	.....	1	.....	10	.....	s.	.....	.....	sm'h	.....	overcast.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.92	760.0	59	15.0	70	sw.	.....	.....	4	.....	3	.....	.....	.....	.....	sm'h	.....	squally.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.86	758.4	68	20.0	.....	nne.	.....	.....	1	.....	.....	.....	.....	.....	.....	1	nne.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	29.97	761.2	59	15.0	88	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, off Sandy Point, Patagonia	28.93	734 8	47	8.3	85	wsw.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Australia, Sydney, N. S. W.	30.29	769.4	62	16.7	.....	calm	.....	.....	0	.....	1	.....	nne.	0	0	.....	.....	clear.
S. S. George S. Homer, S. 55° 23′ W. 90° 15′ *†	29.61	752.1	.....	.....	.....	w.	.....	.....	5	.....	2	.....	wnw.	0	0	cross	var.	clear.
S. Ismir, S. 25° 27′, W. 85° 53′*	30.30	769.6	.....	.....	.....	ese.	.....	.....	5	.....	9	.....	ese.	0	0	r'gh	se.	overcast.
S. St. Francis, S. 13° 00′, W. 101° 45′*†	30.09	764.3	74	23.3	63	ese.	.....	.....	4	.....	9	.....	se.	½ h'r	½ h'r	mod.	se.	squally.
S. Grecian, S. 52° 45′, W. 99° 14′ †	29.73	755.1	54	12.2	80	wnw.	.....	.....	6	.....	2	.....	wnw.	sqll's	sqll's	long	sw.	clear.
S. Henry Failing, S. 53° 55′, W. 95° 09′ *†	29.74	755.4	45	7.2	?	wnw.	.....	.....	4	.....	5	.....	wnw.	2 h'r	2 h'r	long	sw.	fair.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	29.85	758.2	55	12.8	93	sw.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Mazambique, Africa	29.68	753.9	84	28.9	87	ssw.	.....	.....	4	.....	10	.....	ssw.	0	0	sm'h	.....	cloudy.
U. S. S. Pensacola, S. 21° 22′, E. 49° 31′*	29.63	752.6	80	26.7	78	ese.	.....	.....	6	.....	8	.....	se.	1.26	32.0	long	se.	cloudy.
H. M. S. Coquette, N. 15° 36′, E. 39° 24′	29.96	761.0	82	27.8	79	calm	.....	.....	0	.....	4	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.87	758 7	77	25.0	86	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Orontes, N. 14° 21′, E. 42° 50′	29.87	758.7	79	26.1	70	s.	.....	.....	6	.....	0	.....	.....	.....	.....	3	s.	blue sky.
H. M. S. Tourmaline, Vatoumandry, Madagascar	29.68	753.9	80	26.7	91	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	6	ene.	d. clouds.
S. S. Galatia, Calcutta, India †	29.92	760.0	81	27.2	78	sw.	.....	.....	2	.....	2	.....	sw.	0	0	.....	.....	clear.
S. S. Port Phillip, S. 29° 08′, E. 105° 04′*	29.94	760.5	72	22.2	.....	sse.	.....	.....	3-4	.....	.....	.....	.....	.....	.....	chop	.....	cloudy.
S. S. Radnorshire, N. 20° 39′, E. 38° 38′	.....	.....	.....	.....	.....	nne.	.....	.....	3	.....	0	.....	.....	0	0	mod.	sse.	clear.
S. S. Lepanto, N. 24° 15′, E. 36° 03′	29.87	758.7	72	22.2	.....	n.	.....	.....	3	.....	6	.....	nw.	0	0	r'gh	nw.	fair.
H. M. S. Magpie, N. 6° 32′, E. 99° 16′	29.85	758.2	83.4	28.6	75	w.	.....	.....	1	.....	2	sw.	.....	.....	.....	.....	.....	d. clouds.

International Chart I. January 30, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JANUARY 31, 1884,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ALGERIAN.																			
Nemours			30.39	772.0	59.4	15.2	85	e.			1		0			0	0	clear	Roziere.
Algiers			30.40	772.1	65.5	18.6	66	calm			0		0			0	0	clear	Aubert.
La Calle			30.42	772.6	65.1	18.4	86	ene.			1		1			0	0	pretty fair	Fonfrède.
Tunis			30.45	773.4	59.4	15.2	78	ssw.			2		0			0	0	clear	Delord.
Tebessa					54.7	12.6	87	nw.			1		0			0	0	clear	Hans.
Geriville					66.2	19.0	16	ne.			1		0			0	0	clear	Forfert.
Laghouat			30.45	773.4	66.6	19.2	83	calm			0		0			0	0	clear	Abraham.
Biskra			30.47	773.8	58.3	14.6	53	calm			0		0			0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			30.08	764.0	62.4	16.9	60	s.	5	2.2			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.90	759.4	30.09	764.3	55	12.8	75	se.			2		10		se.	0.03	0.8	clear	Com. I. Short, R.N.
Melbourne, Victoria	30.01	762.2	30.10	764.5	59.7	15.4	73	sse.	6	2.7	0		9			0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.60	754.0	30.24	768.2	51.8	11.0	38	w.			4		5			0	0		Prof. Ivan Stozir.
Oracow, I. R Observatory	29.28	743.8	30.06	763.6	46.2	7.9	92	w	3.1	1.4			10			0	0		Dr. Wierzbiski
Eperies	29.23	742.5	30.15	765.8	35.2	1.8	100	calm			0		10			0.091	2.3	foggy	Julius Mikolik.
Gratz	28.93	734.9	30.22	767.5	44.4	6.9	75	ne.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.70	729.0	30.17	766.3	46.0	7.8	79	w.			2		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.79	731.3	30.14	765.5	52.9	11.6	61	nw.			1		2			0	0		The Staff.
Lemberg	29.01	736.9	30.02	762.5	42.3	5.7	88	nw.			4		5			0.213	5.4		Dr. T. Stanecki.
Pola	30.24	768.1	30.35	771.0	48.0	9.4	66	ese.			1		10			0	0		I. R. Hydrographic Office.
Szathmar	29.66	753.3	30.14	765.6	37.8	3.2	93	e.			2		10			0.110	2.8		Joseph Midlinesky, S. J
Szegedin	29.90	759.4	30.19	766.7	50.0	10.0	69	calm			0		6			0	0		Karl Stancel.
Trieste	30.31	760.8	30.41	772.3	46.0	7.8	75	calm			0		10			0	0		Royal Academy.
Vienna	29.45	747.9	30.17	766.2	56.1	13.4	58	w.			3		2			0	0		I. R. Central Met. Obs'y.
BELGIAN.																			
Arlon	28.32	719.2	29.71	754.6	46.4	8.0	92	sw.			2		2			0.315	8.0		
Brussels	29.76	755.9	29.96	761.1	50.7	10.4	83	sw.			5		10		sw.	0.209	5.3	raining	
Furnes	29.80	759.2	29.91	759.7	50.8	10.3	90	ssw.			1		10			0.102	2.6	rainy	
Maeseyck	30.23	767.9	30.36	771.1	52.2	11.2	86	wsw.			1		10			0.098	2.5		
BRITISH.																			
Aberdeen																			W. Boswell.
Bidston, Liverpool Obs'y			29.55	750.6	41.8	5.4	93	e.	13	5.8			10					raining	John Hartnup.
Bolton, Sharples	29.06	738.1	29.59	751.6	40.9	4.9	98	ese.					10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.24	742.7	29.64	752.8	41.1	5.1	98	sw.			3		10			0.03	0.8	raining	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.06	763.5	30.08	764.0	84	28.9	53	ne.			1		3					d. clouds	Corp'l W. I. Gull, A.H.C.
Cardington	29.62	752.3	29.74	755.4	48.0	8.9	92	w			3.0		10					overcast	John McLaren.
Chatham, School M. E.	29.63	752.6	29.80	756.9	48.5	9.2	96	w.			3		10			blank	blank	raining	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.45	748.0	29.68	753.9	51.7	10.9	94	wnw.			6		10					raining	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.88	758.9	87	30.6	58	s.			1		2					d. clouds	J. W. Smith.
Galway, Queen's College	29.35	745.5	29.39	746.5	42	5.6	91	ne.			4		10			0.02	0.5	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.23	767.8	30.29	769.4	63.0	17.2	89	e.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.61	752.1	29.78	756.4	40.7	9.8	89	sw.					10					overcast	The Staff.
Guernsey	29.64	752.8	29.94	760.5	48.3	9.1	98	s.			2		10					raining	A. Collenette, F.R.M.S.
Kew, Observatory	29.74	755.4	29.77	756.1	50.0	10.0	86	sw.	25	11.2			10					threatening.	The Staff.
Leicester, Museum	29.38	746.2	29.63	752.6	50.6	10.3	89	sw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	30.35	770.9	30.43	772.9	63.0	17.2	71	nw.			2		2			0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.17	766.3	30.22	767.6	68.2	20.1	65	e.			1		8					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.49	749.0	29.72	754.9	49.7	9.8	94	s.			6		10					drizzling	The Staff.
Plymouth	29.64	752.8	29.71	754.6	50.8	10.4	97	sw.			4		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.30	744.2	29.40	746.7	43.8	6.6	78						0					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.16	766.1	30.23	767.8	47.0	8.3	72	sw.			1		4					d. clouds	W. H. Lyne.
Sheffield	29.27	743.4	29.55	750.6	42.0	5.6	100	sse.			1		10			0.51	13.0	drizzling	W. F. Cooper.
Siloth Rectory	29.55	750.6	29.58	751.3	44.5	6.9	95	e.			1		10			0.100	2.5	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.63	752.6	41.0	5.0	89	e.	8	3.6			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					40.4	9.7	94	sw.			2.0		10					raining	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.30	744.2	29.33	745.0	50.7	10.4	80	ssw.	41	18.3			8			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	30.08	764.0	30.48	774.2	58.3	14.6	74	w.	3.7	1.7		0	8 k		w.	0	0	cloudy	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.					36 0	2.2		sw.	15	6.7		0	9 s			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.59	751.6	29.63	752.6	30	3.9	88	s.	18	8.0			10 n		s.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.42	747.3	29.48	748.8	38	3.3	89	sw.	14	6.3			10 s		sw.	0.14	3.6	cloudy	G. A. Blair.
Cornwall, Ontario	29.30	744.2	29.50	749.3	36.8	2.7	79	w.			4		10 n			0.091	2.3	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.32	744.7	29.37	746.0	33.0	0.6		calm			0		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	29.18	741.2	29.20	741.7	38	3.3	89	sw.	30	13.4		5 cs	5 s	sw.	sw.	0.03	0.8	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.96	735.6	29.94	760.5	—26	—32.2	100	nw.	11	4.9		0	0			0.16	4.1	clear	James Stewart.
Fredericton, N. B.	29.54	750.3	29.61	752.1	38.3	3.5	88	sw.	6.0	2.7			10 s			inap.	inap.	overcast	Prof. Thos. Harrison.
Grand Manan, N. B.	29.59	751.0	29.65	753.1	40	4.4	92	w.	32	14.3			10 n			0.27	6.9	cloudy	J. Chipman Seeley
Granton, Ontario	28.57	725.7	29.73	755.1	22.3	— 5.4	96	w	5	2.2		0	1 s			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.69	754.1	29.82	757.4	42	5.6	100	sw.	17	7.6			10 n		sw.	0.160	4.1	cloudy	A. Allison.
Hamilton, Ontario	29.23	742.4	29.65	753.1	27.7	— 2.4	83	sw.			2	8 ck	0	sw.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.26	743.2	29.61	752.1	33	0.6	85	sw.	13	5.8		8 k	0	s.		0.20	5.1	clearing	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.72	754.9	29.76	755.9	40.0	4.4	100	sw.	4	1.8			10 n			inap.	inap.	raining	C. H. Rigby.
London, Ontario	28.77	730.7	29.72	754.9	24.6	— 4.1	89	sw.			2	2 c	0			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T.	27.30	693.4	29.65	753.1	27	— 2.8	92	sw.	9	4.0			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	27.73	704.3	29.99	761.7	—21	—29.4	95	w.	8	3.6		0	0			0.01	0.3	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.26	743.2	29.47	748.5	38	3.3	82	sw.	27	12.1			10 s		sw.	0.21	5.3	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.25	742.9	29.47	748.5	35.5	1.9	81	wsw.					10 ks			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	28.85	732.8	29.57	751.1	25	— 3.9	86	sw.	24	10.7			10 n		nw.	0.31	7.9	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.81	731.8	29.59	751.6	30.7	— 0.7	87	w.			1	0	8 k			0.16	4.1	d. clouds	Wm. O'Connor, M.A.
Port Arthur	28.97	735.8	29.70	755.9	— 5	—20.6	87	w.	6	2.7		0	0			0.14	3.6	clear	W. P. Cooke.
Port Dover, Ontario	29.01	736.8	29.73	755.1	27	— 2.8	100	sw.	13	5.8		8 c	0	sw.		0.40	10.2	fair	H. Morgan.
Port Stanley, Ontario	29.08	738.6	29.75	755.6	25	— 3.9	90	nw.	16	7.2		0	0			0.15	3.8	clear	M. Payne.
Qu'Appelle, N. W. T	27.34	694.4	29.93	760.2	—18	—27.8		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	28.99	736.3	29.35	745.5	38	3.3	100	sw.	24	10.7			10 n		w.	0.20	5.1	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.10	739.1	29.57	751.1	30	— 1.1	88	w.	12	5.4			10 ks		w.	inap	inap.	cloudy	W. H. McIntyre.
St. Andrews, N. B.	29.53	750.0	29.58	751.3	37	2.8	95	sw.	10	4.5			10			0.18	4.6	foggy	
St. John, N. B	29.50	749.3	29.65	753.1	38.0	3.3	100	s.	26	11.6			10 n			inap.	inap.	raining	G. Hutchinson.
Saint John's, N. F.																			J. Higgins.
St. Pierre, N. F.			30.00	762.0	40.3	4.6		sw.			3								The Commandant.
Saugeen, Ontario*	28.88	733.5	29.62	752.3	25	— 3.9	88	sw.	28	12.5			10 s			0.07	1.8	cloudy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Stratford, Ontario	28.31	719.1	29.65	753.1	23.5	— 4.7	79	sw.	8	3.6			10			inap.	inap.	overcast	W. Mc Bride, M. A.
Sydney, C. B*	29.76	755.9	29.83	757.7	41	5.0	96	sw.	26	11.6			10 n			0.01	0.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.32	744.7	29.73	755.1	30	— 1.1	88	w.	10	4.5			10 ks		w.	0.16	4.1	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.63	727.2	29.74	755.4	27.0	— 2.8	93	sw.	18	8.0			10 s			0.270	6.9	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.71	754.6	29.78	756.4	39	3.9	96	sw.	24	10.7			fg			0.07	1.8	foggy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.10	764.5	30.13	765.3	74.5	23.6	90	sw.				0	0			0.010	0.3	fine	I. Garfelt.
Cape Town, The Castle	29.88	758 9			81.2	27.3	42	n.				0	0			0	0		Capt.R.Gardner Warton
Springbok Fontein	27.79	705.9			89	31.7	39									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.84	757.9	29.92	759.9	65.3	18.5	90	w.			2	10	0					cloudy	Samuel Redolez.
Iquique	29.87	758 7	29.90	759.4	70.7	21.5	87	sw.			2	5 c	0					foggy	Rafael Moreno.
Niebla	29.47	748.6	29.58	751.3	63.3	17.4	82	e.			1	0	0			0.079	2.0	clear	Federico Köhling.
Punta Caldera	29.87	758.8	29.96	761.0	70.9	21 6	83	sw.			1	7 c	0	sw.				fair	Manuel Tobar.
Punta Corona	29.74	755.5	29.93	760.2				w.			1	8 n	0			0	0	cloudy	Francisco Alvarado.
Valparaiso	29.77	756.2	29.91	759.7	65.5	18.6	87	ne.				3	4						Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.50	774.6	30.52	775.2	37.0	2.8	72	nnw.	6.3	2.8			10			0.283	7.2		M.Marc Dechevrens,S. J
Danish.																			
Copenhagen	29.71	754.6	29.76	755.8	43.2	6.2	84	w.	9	4			9						Oversergent Fischer.
Fanöe	29.79	756.7	29.81	757.2	41.5	5.3	92	wsw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.32	744.6	29.36	745.7	14.0	—10.0	100	nne.			4		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.76	755.9	29.80	757.0	20.1	— 6.6	87	e.			2		5						A. O. Thoriacius.
Thorshavn	29 50	749.3	29.52	749.9	34.2	1.2	87	ne.	14.5	6.5			10						Overloerer Bergh.
Vestervig	29.57	751.1	29.67	753.5	41.7	5.4	89	sw.			6		9						Loerer Oesternoi.
Egyptian.																			
Cairo	29.93	760.2			53.6	12		sw.	6.7	3.0			10			0.087	2.2	covered	Albert Ismaiun.
French.																			
Agen, Normal School	29.50	749.4	30.16	766.0	57.9	14.4	88	ese.			4	0		sw.		0	0		M. Labroue, Director.
Alençon, Normal School	29.48	748.7	30.03	762.7	50.0	10	95	s.			1		10 n		n.	0.08	2.	covered	M. Nicot, Director.
Arras, Normal School			29.96	761.0	51.4	10.8	83	s.			1		5	s.		0.122	3.1	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.27	768.9	30.35	770.9	55.0	12.8	68	nne.			1		5		se.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.56	750.8	30.12	765.1	50.4	10.2	74	s.			1		5		w.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.75	755.6	30.02	762.4	53.8	12.1	74	s.			1		8		wsw.	0.008	0.2	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.39	746.6	30.18	766.6	60.1	15.6	61	s.			2		8			0	0		M. Gobin, Director.
Bordeaux, Observatory	29.87	758.7	30.13	765.4	54.9	12.7	76	se.			1		2			0.004	0.1	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.51	749.6	30.06	763.6	56.5	13.6	73	w.			1	c		w.		0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.67	753.7	29.91	759.8	52.5	11.4	93	sw.			6		10		sw.	1.969	50.0		M. de Kermarée, Dir.
Caen, Normal School	29.82	757.4	29.89	759.3	54.7	12.6	100	ssw.			1		10			0.12	3.	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.74	755.3	30.06	763.5	53.1	11.7	73	ssw.			4		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.56	750.8	30.08	764.0	53.2	11.8	78	w.			1		kn			0	0		M. Noël, Director.
Clermont-Ferrand Obs'y	28.79	731.2	30.13	765.4	58.3	14.6	50	s.			1	5 c;ck			sw.	0	0		M. Allnard, Director.
Cluny, Normal School	29.31	744 5	30.19	766.7	54.5	12.5	68	sw.			1		5		w.	0	0		M. de Villemontée, Dir.
Cominercy, Normal School	29.26	743.3	30.13	765.4	51.4	10.8		sw.			1		0			0.012	0.3	clear	Dr. Coulet, Director.
Gap, Normal School	27.75	704 9	30.35	770.9	46.4	8	61	calm			0		1 s			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.20	741.7	30.34	770.5	56.8	13.8	56	se.			2		7		se.	0	0		M. Kina, Director.
Grenoble. Normal School	29.58	751.2	30.37	771.3	45.3	7.4	64	sw.			2		k			0	0		M. Ablard, Director.
Guéret, Normal School	28.54	724.9	30.11	764.7	55.4	13	88	ne.			1		k		e.	0	0		M. Delorme, Dir.
Lamballe, Normal School																			M. Poilpre, Director
Lescar, Normal School	29.51	749.6	30.07	763.8	65.3	18.5	48	s.			1	1 c				0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.86	758.4	29.96	761.0	54.7	12.6	85	ssw.			4		10		sw.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.12	739.7	30.19	766.7	55.6	13.1	64	s.			4	2 c			w.	0.004	0.1	slightly cl'dy	M. André, Director.
Mans, Normal School	29.72	754.8	30.03	762.7	49.8	9.9		ssw.			1	2 c		nw.		0	0	slightly cl'dy	M. Richard, Director
Marseille, Observatory	30.08	763.9	30.35	770.9	54.9	12.7	82	se.			1		10		sse.	inap.	inap.		M. Stephan, Director.
Montlouis	25.00	635.0	29.84	758.0	55.4	13.0	17	sw.	16.8	7.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.23	767.9	30.34	770 7	48.2	9	97	ne.			2		10		wnw.	0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.35	745.5	30.14	765.6	51.1	10.6	72	s.			1		cn		w.	0.008	0.2		M. Hasse, Director.
Nantes, Observatory	29.91	759.6	30.07	763.8	56.1	13.4	72	ssw.			1–2	ck	7 k	ssw.	ssw.	0.020	0.5		M. Larocque, Director.
Perpignan, Observatory	30.19	766.7	30.30	769.6	48.9	9.4	95	calm	0	0			10		s.	0.008	0.2		Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	544.0			37.6	3.1		sw.			4		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.26	743.2	30.42	772.6	54.0	12.2	72	n.			1		n		s.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.28	642 0			47.1	8.4	15	sw.			3	5 c;ck				0.008	0.2		M. Alluard.
Rochefort, Naval Obs'y	30.06	763.4	30.09	764.2	54.0	12.2	81	calm			0		0			0.87	22.	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.81	757.2	30.03	762 7	51.1	10.6	86	se.			1		0			0.028	0.7	clear	M. Brotier, Director.
Rodez, Normal School	28.10	713.8	30.28	769.0	50.2	10.1		nw.			2		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.92	760.0	29.97	761.2	52.9	11.6	93	se.			1		10			0.012	0.3	covered	M. Mouillot, Dir.
St. Lô, Normal School			29.78	756.4	53.1	11.7	68	ssw.			2		10	sw.	sw.	0.106	2.7	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.89	759.2	30.06	763.4	52.3	11.3	74	ssw.			1		5	wsw.		0	0	cloudy	M. Renou, Director.
Toulouse, Observatory	29.47	748.4	30.19	766.9	53.8	12.1	78	se.			6		2	ese.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.88	758.9	30.06	763 4	54.0	12.2	76	s.			1		1	wsw.	sw.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.54	750.4	30.04	762.9	51.4	10.8	77	sw.			2		5			0	0	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.97	761.1	30.11	764.9	63.7	17.6	50	ne.	2.0	0.9		3 ck			sw.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.69	728.7	30.15	765.8	51.8	11.0	63	sw.			2		8	sw.		0.004	0.1		Prof. Jnedt.
Bamberg	29.24	742.8	30.09	764 2	50.9	10.5	63	w.			1		7 k		w.	0.012	0.3		Prof. Dr. Hoh.
Berlin	29.87	758.6	30.01	762.3	47.8	8.8	78	w.			2		10			0.201	5.1		Meteorological Institute
Breslau	29.53	750.1	30.06	763.6	49.5	9.7	66	wnw.			4		10			0.012	0.3		Royal University Obs'y
Carlsruhe	29.67	753.6	30.13	765.4	55.2	12.9	58	sw.			5		9	sw.		0	0		Albert Senz.
Cassel	29.28	743.6	29.99	761 7	50.9	10.5	84	s.			3		8	s.		0.228	5.8		Dr. H. Möhl.
Frankfort-on-the-Main	29.68	753 9	30.01	762.3	53.1	11.7	74	sw.			1		10			0.008	0.2		Physical Society.
Friedrichshafen	28.75	730.3	30.21	767 2	45.3	7.4	80	ssw.			2		3	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.86	758.4	29.95	760.7	44.1	6.7	88	wsw.			3		10			0	0		E. Prefler.
Kiel	29.82	757.3	29.83	757.7	44.2	6.8	81	sw.			3		10			0.016	0.4		Prof. Dr.G. Karsten.
Leipsic, Astrom'l Obs'y	29.63	752.7	30.04	763 0	50.9	10.5	87	ssw.			2		10	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.82	757.3	30.01	762.2	48.2	9.0	76	calm			0		10			0.126	3.2		Weather Observatory.
Memel	29.62	752.4	29.67	753.6	39.7	4.3	84	wnw.			7		2 s						Issermann.
Munich	28.32	719.3	30.19	766.9	50.5	10.3	56	calm			0		1			0	0		Central Station.
Neufahrwasser	29.87	758.6	29.88	759 0	43.2	6.2	69	w.			5		9			0	0		A. Lothes.
Neustadt, Palatinate	29.60	751 8	30.13	765.2	55.9	13.3	70	s.			1		9			0	0		Dicknether.
Stuttgart	29.17	740.8	30.06	763.6	54.1	12.3	60	sw.			1		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.84	757.9	29.86	758.5	41.5	5.3	85	sw.			4		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.91	759.7	30.30	769.6	56.1	13.4		n.			0.5	3	0			0	0	hazy	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.97	761.2	30.02	762.5	70.2	21.2	68	wsw.	23.0	10.3			4			0	0	d. clouds	
Deesa	29.50	749.3	29.98	761.6	75.8	24.3	14	nnw.	9.0	4.0			9	nw.		0	0	d. clouds	
Bombay	29.91	759.6	29.94	760.6	76.2	24.6	63	nnw.	17.0	7.6			9	nw.	nw.	0	0	d. clouds	
Poona, Yarrowda	28.05	712.6	29.90	759.5	82.3	27.9	19	nw.	10.0	4.5			4			0	0	d. clouds	
Belgaum	27.36	695.0	29.90	759.5	76.1	24.5	29	wsw.	7.0	3.1			4	e.	w.	0	0	d. clouds	
Lahore	29.21	742.0	29.99	761.7	61.6	16.4	41	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	29.01	736.9	29.95	760.6	61.8	16.6	23	nw.	4.0	1.8			0			0	0	blue sky	
Agra	29.40	746.8	29.99	761.6	65.8	18.8	30	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.88	733.4	29.93	760.1	77.3	25.2	31	calm	1.0	0.4			3	w.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Jubbulpore	28.61	726.7	30.01	762.3	65.6	18.7	38	calm	1.1	0.5			4	n.		0	0	d. clouds	
Lucknow	29.58	751.2	29.97	761.2	63.3	17.4	31	wsw.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.65	753.1	29.98	761.4	63.0	17.2	51	calm	0	0			0			0	0	blue sky	
Patna	29.74	755.5	29.94	760.4	66.4	19.1	30	w.	6.8	3.0			0			0	0	blue sky	
Hazaribagh	27.90	708.5	29.97	761.3	61.7	16.5	30	w.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.84	758.0	29.92	760.1	78.2	25.7	50	nnw.	3.0	1.3			7			0	0	d. clouds	
Calcutta, Alipore	29.92	759.9	29.94	760.5	68.5	20.3	52	calm	0	0			0			0	0	blue sky	
Dhubri	29.80	757.0	29.92	760.1	65.1	18.4	62	calm	0	0			0			0	0	blue sky	
Chittagong	29.85	758.3	29.95	760.6	70.6	21.4	87	sw.	3.1	1.4			1			0	0	d. clouds	
Sibsagar	29.58	751.2	29.92	760.0	65.6	18.7	73	ne.	1.0	0.4			10	sw.	sw.	0	0	d. clouds	
Jeypore	28.53	724.6	30.02	762.5	65.9	18.8	37	nw.	7.5	3.4			0			0	0	blue sky	
Zanzibar	29.83	757.8	29.86	758.3	80.3	30.2	58	ne.	7.8	3.5			1	ne.		0	0	d. clouds	
Bellary	28.41	721.6			83.8	28.8	27	e.	4	1.8		2 c	0			0	0	d. clouds	
Trichinopoly	29.67	753.6			83.7	28.7	35	ene.	0.2	0.1		3	4			0	0	d. clouds	
ITALIAN.																			
Udine	29.96	761.0	30.39	771.8	44.6	7.0	63	se.	0.7	0.3			4			0	0		Prof. Giovanni Clodig.
Milan	29.85	758.1	30.39	771.8	43.2	6.2	76	se.	1.3	0.6			10	w.		0	0		Prof. G. V. Schiapparelli
Padua	30.26	768.7	30.38	771.6	37.6	3.1	89	n.	3.8	1.7			10	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.43	747.4	30.37	771.3	44.2	6.8	63	e.	3.1	1.4			9	n.		0	0		Prof. F. F. Denza.
Genoa	30.17	766.3	30.37	771.3	52.5	11.4	89	e.	4.9	2.2			10	s.		0.004	0.1		Prof. G. M. Garibaldi.
Pesaro	30.30	769.6	30.35	770.9	47.5	8.6	87	n.	4.9	2.2			10	sw.		0	0		Prof. Luigi Guidi.
Florence	30.12	765.0	30.38	771.7	49.5	9.7	83	sw.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	30.24	768.2	30.33	770.4	55.6	13.1	87	se.	1.8	0.8			10	n.		0	0		Prof. P. Monte.
Rome	30.23	767.8	30.41	772.3	57.2	14.0	69	nne.	0	0			10	w.		0	0		Prof. P. Tacchini.
Lecce	30.10	764.5	30.36	771.1	55.8	13.2	66	nw.	9.8	4.4			0			0	0		Prof. C. de Giorgi.
Cosenza	29.47	748.5	30.39	771.9	50.7	10.4	75	se.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	30.17	766.2	30.36	771.2	57.2	14.0	77	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	30.17	766.4	30.43	772.0	57.4	14.1	65	ne.	1.8	0.8			0			0	0		Prof. G. Cacciatore
Syracuse	30.34	770.6	30.39	771.8	59.7	15.4	47	nw.	2.5	1.1			0			0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.89	759.1	30.43	772.8	55.2	12.9	71	s.	1.3	0.6			8	nw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.88	758.9	29.91	759.8	26.0	— 3.3	72	calm			0		10 kn			0.425	10.8	snowing	H. Hattori.
Awomori	29.85	758.2	29.89	759.2	21.4	— 5.9	88	sw.	7.3	3.3			10 n			0.475	12.1	snowing	K. Ogawa.
Hakodate	29.87	758.8	29.88	758.9	13.0	—10.6	85	nnw.	3.0	1.3		0	8 s			0	0	cloudy	Y. Souma.
Hamamatsu	29.79	756.6	29.89	759.1	34.9	1.6	76	w.			6	0				0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.06	763.5	30.08	763.9	40.5	4.7	63	n.	2.7	1.2			10 s		w.	0	0	cloudy	Y. Okamoto.
Kagoshima	30.14	765.5	30.16	766.1	40.2	4.0	80	n.			2	0	1 s		nw.	0	0	clear	
Kanazawa	29.87	758.8	29.98	761.5	32.8	0.4	91	nw.	3.3	1.4			10 n			0.375	9.5	snowing	S. Endo.
Kioto	29.81	757.3	29.99	761.7	30.3	— 0.9	95	s.	0.2	0.1		0	8 s			0.103	2.6	cloudy	M. Tojima.
Kochi	30.00	762.1	30.03	762.6	41.1	5.1	77	w.	2.3	1.0		0	4 s			0.085	2.2	fair	K. Kusunose.
Miasaka	30.08	764.1	30.11	764.8	42.1	5.6	73	wnw			2	0	0			0.008	0.2	clear	K. Masusaki.
Miyako	29.76	755.8	29.87	758.6	23.8	— 4.5	78	wsw.	2.1	0.9		0	0			0	0	clear	N. Homo & K. Suwa.
Nagasaki, I. M. Obs'y	30.00	762.0	30.21	767.3	37.8	3.2	73	calm	0	0		0	1 s			0.010	0.2	clear	
Nemuro	29.74	755.4	29.79	756.7	16.0	— 7.8	40	nw.	12.0	5.4		0	3 s			0	0	fair	A. Shibuya.
Niigata	29.89	759.2	29.93	760.2	34.4	1.3	80	n.	7.5	3.3			10 s		n.	0.110	2.8	covered	Satoo & Tomikawa.
Nobiru	29.86	758.5	29.88	758.9	28.6	— 1.9	76	nnw.	1.9	0.8		0	0			0	0	clear	Yoslino & Midzushina.
Numadzu	29.81	757.2	29.85	758.1	38.0	3.3	82	ene.			2		10 ks			0.047	1.2	cloudy	T. Ohgi.
Osaka	29.99	761.7	30.01	762.3	31.7	— 0.2		ne.	3.4	1.5		0	3 s			0.110	2.8	clear	H. Omura.
Sakai	30.02	762.4	30.03	762.6	35.9	2.2	85	sw.			4		10 n		nw.	0.382	9.7	snowing	Yamawchi & Sakamoto.
Sapporo	29.80	756.8	29.87	758.6	15.0	— 9.4	74	s.	3.4	1.5		0	8 s;n		n	0.020	0.5	cloudy	S. Kimura.
Shimonoseki	30.00	761.9	30.14	765.7	40.6	4.8	53	n.			2	0	3 s		nw.	0.008	0.2	fair	S. Sakano.
Tokei Obs'y, Yeddô	29.79	756.7	29.87	758.7	34.8	1.6	71	nne.	6.8	3.0		5 cs	0			0	0	fair	The Staff.
Wakayama	29.96	761.0	30.02	762.4	35.3	1.8	87	ne.	1.9	0.8			10ck;s			0.095	2.4	cloudy	K. Sakai & S. Takeda.
MAURITIUS.																			
Mauritius R. A. Observatory	29.64	752.8	29.83	757.7	80.0	26.7	65	ne.	17.0	7.6			8ks;kn		ne.	0.04	1.0	fair	The Staff.
MEXICAN.																			
Leon	24.34	618.2	30.20	767.1	44.6	7.0	75	nnw.	0.9	0.4		1 c	1 s			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.78	756.5	30.05	763.2	68.0	20.0	90	n.	1.6	0.8		8 cs	0	w.		0	0	cloudy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.91	759.7	29.91	759.7	49.3	9.6		ssw.			3					0.126	3.2		
Groningen	29.90	759.5	29.96	760.9	45.1	7.3		ssw.								0	0		
Helder	29.86	758.4	29.86	758.4	44.2	6.8		se.			2					0.252	6.4		
Hellevoetsluis	29.89	759.3	29.89	759.3	50.5	10.3	94	sw.			3					0.055	1.4		
Utrecht	29.86	758.5	29.92	759.9	48.4	9.1	95	ssw.			3		10			0.105	4.2	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.7			79.9	26.6	83	nne	1.5	0.7			3			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.42	747.2	29.48	748.8	37.4	3.0	76	sse.	7	3			10			0.646	16.4	raining	
Brono	29.36	745.7	29.40	746.7	33.8	1.0	81	nnw.			6		3			0.201	5.1		
Christiania	29.37	746.0	29.52	749.8	30.9	— 0.6	81	sse.	4	2			6			0.157	4.0	foggy	
Gjæsvær	29.04	737.6	29.06	738.2	25.9	— 3.4		s.			6		4			0	0		
Lodingen	29.11	739.5	29.16	740.7	33.3	0.7	87	nw.			3		10			0.020	0.5	snowing	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.26	768.5	30.34	770.7	65.8	18.8	71	se.	3.8	1.7			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.94	760.5	30.28	769.2	55.9	13.3	88	ssw.	12.5	5.6			10			0	0		The Staff.
Ponta Delgada, Azores	30.28	769.0	30.35	770.8	56.1	13.4	64	nw.	11.2	5.0			3	ne.		0.087	2.2		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.00	762.0	30.04	762.9	70.9	21.6	67	e.			5		0			0	0		
San Salvador, Congo	28.08	713.1	29.90	759.5	79.5	26.4	63	w.			2		8			0	0		
Serra da Estrella	25.42	645.6	30.15	765.9	50.2	10.1	23	ssw.			5		8			0	0	foggy	
RUSSIAN.																			
Akmolinski	29.25	743.0	30.46	773.6	4.8	—15.1	73	se.	11	5		0	0			0	0		Major K. Lasarew.
Archangel	29.36	745.7	29.38	746.2	27.9	— 2.3	92	sse.	4	2			10			0	0		Capt. Sselitwerstow
Ashuruda	30.18	766.5	30.08	764.1	49.8	9.9	87	nnw.	7	3		0	5 kn			0.272	6.9		
Astrakhan	30.23	767.9	30.15	765.9	24.6	— 4.1	98	sse.	2	1			10					h'vy clouds	Capt. Wisganow.
Baku	30.17	766.2	30.12	765.0	44.8	7.1	65	nne.	9	4		0	3 s			0	0		
Barnaul	30.24	768.0	30.80	782.4	4.8	—15.1	72	calm	0	0			0			0	0		Meteorological Office.
Bielosersk	28.87	733.4	29.36	745.8	21.6	— 5.8	95	se.	11	5			10 n			0.063	1.6	snowing	
Dorpat	28.91	734.4	29.16	740.6	33.6	0.9	92	wnw.	11	5			10 n			0.024	0.6		Observatory.
Ekaterinburg	29.17	741.0	30.22	767.7	12.6	—10.8	82	se.	4	2		10 c	0			0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.45	748.5	29.92	759.9	36.1	2.3	91	wsw.	20	9			10 s;n			inap.	inap.		
Kasan	29.67	753.7	29.97	761.1	17.6	— 8.0	94	sse.	16	7			10			0.024	0.6	light snow	Observatory.
Kem	29.33	744.9	29.38	746.2	25.9	— 3.4	87	se.	13	6			10			0	0	h'vy clouds	
Kertch	30.13	765.2	30.15	765.8	41.2	5.1	78	calm	0	0		4 c	0			0.102	2.6		Lagorio & Sastyres
Kieff	29.08	738.6	29.73	755.1	39.2	4.0	95	w.	9	4		cs	9ks;n			0.031	0.8		Observatory.
Koslov	29.15	740.3	29.67	753.7	22.5	— 5.3	86	ssw.	16	7			10 s			0.461	11.7		
Lgov	29.02	737.0	29.61	752.2	33.1	0.6	96	wsw.	27	12			10			0.106	2.7	snowing	R. I. Ssaweljew, Engin'r.
Libau	29.53	750.1	29.56	750.7	39.7	4.3	79	w.	16	7			10			0.079	2.0		E. Quass.
Lugan	29.77	756.2	29.98	761.6	30.4	— 0.9	74	sw.	18	8			10			0.028	0.7	light clouds	Meteorological Obs'y
Moscow	28.90	734.0	29.39	746.5	27.7	— 2.4	88	s.	13	6			10 s			0.087	2.2	snowing	Meteorological Obs'y
Nertschinsk	28.11	714.0	30.71	780.1	— 4.7	—20.4	76	sw.	2	1			0			0	0		

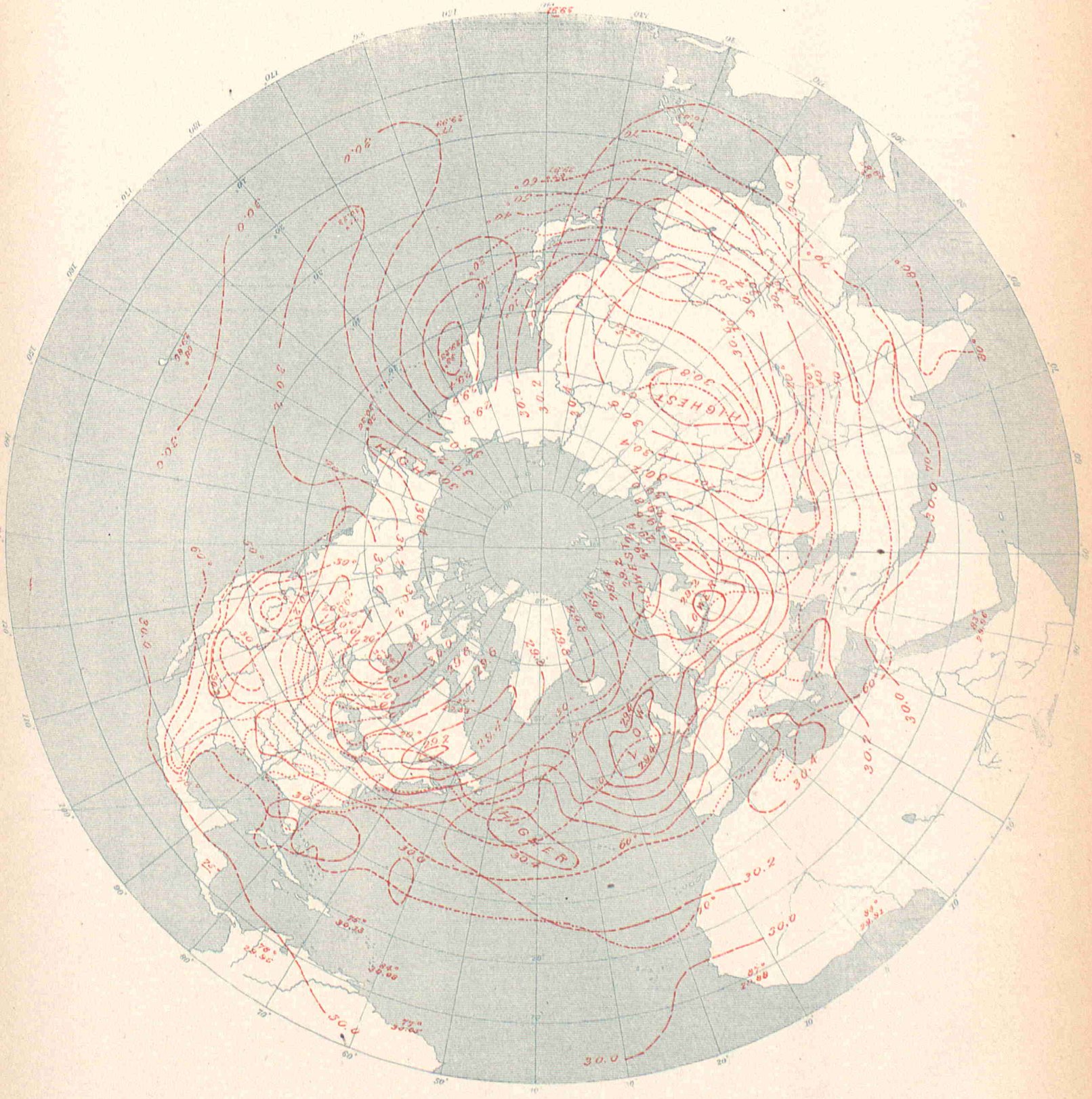
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Nikolaiev	29.97	761.2	30.04	763.0	36.1	2.3	89	s.	18	8			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor.																			Iwanow.
Pekin, China	30.51	775.0	30.65	778.6	24.6	— 4.1	34	nw.	5.6	2.5		0	0			0	0		Physical Observatory
Petro-Alexandrovsk	29.76	756.0	30.13	765.3	40.3	4.6	71	ne.	2	1		5 cs	0						
Petrozavodsk	29.04	737.6	29.24	742.8	23.0	— 5.0	95	se.	27	12			10			0.157	4.0		Dr. Bergmann.
Pinsk	29.27	743.5	29.78	756.3	40.6	4.8	70	wnw.	40	18		0	8 ks			0.157	4.0		
Poti	30.12	765.0	30.15	765.8	45.9	7.6	86	sw.	13	6			10 n					raining.	
St. Petersburg	29.06	738.2	29.09	738.8	30.6	— 0.8	88	ene.	7	3			10 n			0.004	0.1		Central Physical Obs'y.
Samarkand	27.57	700.3	30.06	763.6	48.9	9.4	52	calm	0	0			10 n						
Semipalatinsk	30.04	763.1	30.81	782.5	— 8.0	—22.7	84	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.95	760.6	30.17	766.2	42.6	5.9	75	wsw.	20	9			10 n			0.055	1.4		
Staroi Bykhov	28.91	734.4	29.48	748.7	37.6	3.1	68	w.	34	15			9			0.067	1.7		
Tashkend, Laboratory	28.42	721.9	30.13	765.2	46.6	8.1	49	calm	0	0		0	2 k						Terch, A. M
Tiflis	28.62	727.0	30.07	763.7	47.5	8.6	50	n.	11	5		0	0			0	0		Physical Observatory.
Vernoe	27.54	699.6	30.24	768.1	17.6	— 8.0	86	calm	0	0		0	2 k						
Viatka	29.24	742.7	29.91	759.6	22.8	— 5.1	99	s.	13	6			10			blank	blank		
Vladivostock	30.13	765.4	30.20	767.1	2.7	—16.3	60	nne.	18	8		0	3 s			0	0		
Warsaw	29.50	749.4	29.93	760.3	43.3	6.3	74	w.	20	9		8 ck	0			0	0		Astronomical Obs'y.
Yeniseisk	30.55	775.9	30.87	784.2	4.6	—15.2	83	sw.	4	2			5			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.68	728.5	29.23	742.4	27.3	— 2.6	92	sse.	20	8.9			10 n		s.	0.06	1.5	snowing	Prof. S. Fadeieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.18	766.6	30.29	769.4	50.7	10.4	92	wsw.								0	0	hazy	B. J. Elin.
Bilbao, Met. Obs'y	30.05	763.6	30.12	765.1	59.5	15.3	45	se.	5.4	2.4			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.24	691.9	30.22	767.5	55.4	13.0	35	s.	3.8	1.7		0	2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.08	713.2	30.35	770.9	52.7	11.5	68	ne.	3.4	1.5		3	0			0	0	almost clear.	The Staff.
Murcia, Met. Obs'y	30.16	766.0	30.30	769.7	64.2	17.8	74	wsw.	1.1	0.5		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.10	739.1	30.00	762.1	52.7	11.5	86	s.	15.0	6.7			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.11	764.6	30.17	766.4	63.7	17.6	89	e.	1.8	0.8		0	k;s			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.00	761.8	30.05	763.2	75.0	23.9	68	ene.	2.5	1.1		0	s			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.29	769.3	30.39	771.8	59.7	15.4	82	w.	6.3	2.8		0	2		w.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.04	763.1	30.13	765.4	75.2	24.0	76	n.	3.1	1.4		3 s	2 k	n.	n.	0	0		Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.32	744.7	29.36	745.7	21.6	— 5.8	95	calm			0		8			0	0		
Umea	29.28	743.6	29.33	744.9	27.0	— 2.8	96	calm			0		10			0	0		
Hernosand	29.30	744.1	29.25	745.4	25.9	— 3.4	82	calm			0		0			0.205	5.2		
Stockholm	29.26	743.3	29.44	747.8	27.0	— 2.8	83	nnw.			4		3			0.217	5.5		
Wisby	29.37	746.1	29.43	747.6	40.3	4.6	78	w.			6		10			0.102	2.6		
Sub-series.																			
Upsala	29.31	744.5	29.40	746.7	26.4	— 3.1	87	nw.	5.6	2.5			9			blank	blank		H. H. Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.26	768.7	45.9	7.7	69	s.	6	2.5			2		sw.	0	0		The Observatory.
Valona			30.38	771.6	57.0	13.9		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.98	761.4	59.0	15.0	69	sw.			2		9 n		nw.	0.30	7.6		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.64	752.8	29.73	755.1	43	6.1	74	s.	10	4.5			10 s			0.28	7.1	cloudy	J. O. Barnes.
Alpena, Michigan	28.94	735.1	29.65	753.1	16.2	— 8.8	83	w.	13	5.8		0	2 s			0.15	3.8	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.12	638.0	30.24	768.1	23.1	— 4.9	76	ne.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.89	683.0	29.93	760.2	23.0	— 5.0	88	sw.	28	12.5			10 s		sw.	0.02	0.5	cloudy	F. Newman.
Atlanta, Georgia	28.88	733.5	30.11	764.8	54.0	12.2	95	w.	20	8.9			10s; fg		s.	0	0	cloudy	S. W. Beall.
Atlantic City, New Jersey	29.85	758.2	29.86	758.4	35.5	1.9	89	s.	11	4.9			10 s		s.	0.20	5.1	cloudy	B. A. Blundon.
Augusta, Georgia	29.94	760.5	30.14	765.5	50	10.0	90	s.	3	1.3			10s; fg			0	0	cloudy	W. J. Evans.
Baltimore, Maryland	29.82	757.4	29.87	758.7	46.0	7.8	93	se.	3	1.3			10n; fg		sw.	0.19	4.8	light rain	Geo. W. Felger.
Barnegat City, New Jersey	29.84	757.9	29.86	758.4	37.0	2.8	92	sw.	14	6.3			10 s		sw.	0.02	0.5	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.35	720.1	30.09	764.3	4.5	—15.3	87	calm	0	0		0	1 s			0	0	clear	A. Pritchard.
Benton, Fort, Montana	26.92	683.8	29.90	759.4	37.0	2.8	72	sw.	28	12.5			10 s		sw.	0.03	0.8	cloudy	Thomas Morgan.
Bismarck, Dakota	28.05	712.5	30.05	763.3	— 8.5	—22.5	100	nw.	3	1.3		0	0			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	29.80	756.9	29.83	757.7	42.0	5.6	92	sw.	20	8.9			10 s		w.	0.30	7.6	cloudy	J. T. Eiker.
Boise City, Idaho	27.43	696.7	30.36	771.1	11	—11.7	91	nw.	1	0.4		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.58	751.3	29.75	755.6	39.0	3.9	94	sw.	14	6.3			10 s		sw.	0.53	13.5	cloudy	O. B. Cole.
Brownsville, Texas	29.98	761.5	30.04	763.0	67.4	19.7	93	se.	5	2.2			10 s			0	0	cloudy	John McGlone.
Buffalo, New York	28.99	736.3	29.78	756.4	31	— 0.6	87	sw.	30	13.4			10 s		sw.	0.51	13.0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.76	705.1	29.99	761.7	— 1	—18.3	93	se.	2	0.9		0	0			inap.	inap.	clear	A. Schneider.
Cairo, Illinois	29.48	748.8	29.90	759.4	47.7	8.7	95	s.	1	0.4			fg.			0.38	9.7	dense fog	W. H. Ray.
Canby, Fort, Washington Ter	29.99	761.7	30.19	766.8	37.7	3.2	84	n.	4	1.8		0	0			0	0	clear	J. H. Young.
Cape Henry, Virginia	29.95	760.7	29.97	761.2	49.5	9.7	86	sw.	18	8.0			10 s			0	0	cloudy	A. K. Alderson
Cape May, New Jersey	29.85	758.2	29.88	758.9	39.0	3.9	89	s.	4	1.8			10 n			inap.	inap.	light rain	W. E. Smith.
Cape Mendocino, California	29.32	744.7	30.02	762.5	47	8.3	63	se.			2	0	5 s		se.	0	0	fair	A. P. Leavitt.
Cedar Keys, Florida	30.20	767.1	30.22	767.6	51.8	11.0	100	ne.	5	2.2			fg.			0.01	0.3	dense fog	G. W. Davis.
Charleston, S. Carolina	30.09	764.3	30.15	765.8	52.0	11.1	93	sw.	4	1.8		6 ck; c	0	w.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.15	740.4	30.04	763.0	50.7	10.4	90	sw.	10	4.5			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.12	739.6	29.98	761.5	61.5	16.4	80	sw.	20	8.9			10 ks		sw.	0.05	1.3	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.77	603.7	30.04	763.0	31.3	— 0.4	55	nw.	32	14.3		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.09	738.9	29.84	757.9	23.0	— 5.0	78	w.	4	1.8		0	0			inap.	inap.	clear	Wm. Norrington.
Chincoteague, Virginia	29.90	759.4	29.92	760.0	41.0	5.0	100	s.	12	5.4			10 n		w.	0.01	1.0	light rain	C. F. Dickens.
Cincinnati, Ohio	29.18	741.2	29.87	758.7	47.8	8.8	70	calm	0	0			10 s			0.13	3.3	cloudy	L. Dunne.
Cleveland, Ohio	29.04	737.6	29.82	757.4	33.0	0.6	88	sw.	10	4.5		1 c	3 s		w.	0.38	9.7	fair	W. Line.
Columbus, Ohio	28.96	735.6	29.86	758.4	37	2.8	82	sw.	4	1.8			10 s		sw.	0.07	1.8	cloudy	F. T. Williams.
Concho, Fort, Texas	28.12	714.2	30.14	765.5	48.1	8.9	93	w.	3	1.3			10 s			0	0	cloudy	C. E. King.
Custer, Fort, Montana	26.65	676.9	30.03	762.7	24	— 4.4	87	sw.	4	1.8			10 s			1.12	28.4	cloudy	W. J. Daily.
Davenport, Iowa	29.17	740.9	29.88	758.9	25	— 3.9	73	w.	1	0.4			10 s			0.01	0.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	30.27	768.8	44.3	6.8	75	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.38	720.8	30.20	767.1	28.2	— 2.1	88	w.	1	0.4		0	3 ks			0	0	clear	H. S. Blandford.
Deadwood, Dakota	25.14	638.5	30.09	764.3	21.2	— 6.0	79	sw.	4	1.8			10 s			0.07	1.8	cloudy	G. Kingsbury.
Delaware Breakwater, Del.	29.90	759.4	29.92	760.0	40.5	4.7	82	e.	8	3.6			10 n			0.02	0.5	light rain	G. A. Martin.
Denver, Colorado	24.55	623.6	30.07	763.8	43.7	6.5	31	w.	5	2.2		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.93	734.8	29.90	759.4	27	— 2.8	64	n.	4	1.8		0	sk.			inap.	inap.	clear	F. W. Conrad.
Detroit, Michigan	29.05	737.9	29.81	757.2	26.0	— 3.3	76	sw.	9	4.0		0	0			0.20	5.1	clear	N. B. Conger.
Dodge City, Kansas	27.27	692.6	30.02	762.5	35	1.7	49	w.	14	6.3		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.09	738.9	29.86	758.4	20	— 6.7	65	w.	0	2.7		0	1 s			inap.	inap.	clear	J. Harvey Smith
Duluth, Minnesota	28.97	735.8	29.78	756.4	— 2.0	—18.9	81	w.	7	3.1		0	0			0.07	1.8	clear	E. R. Brace.
Eastport, Maine	29.58	751.3	29.65	753.1	38.0	3.3	100	sw.	16	7.2			10 s		sw.	0.17	4.3	cloudy	D. C. Murpay.
Elliott, Fort, Texas	27.13	689.1	30.06	763.5	40.4	4.7	35	nw.	16	7.2		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.38	670.0	30.26	768.6	40.0	4.4	73	calm	0	0		0	3 s			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.84	757.9	29.80	756.9	33.5	0.8	83	sw.	8	3.6		0	5 s		w.	0.36	9.1	fair	C. A. Shaw.
Escanaba, Michigan	28.95	735.3	29.67	753.6	8.0	—13.3	85	w.	8	3.6		1 cs	0	nw.		0.04	1.0	clear	L. M. Pindell.
Fort Smith, Arkansas	29.37	746.0	29.87	758.7	52.5	11.4	90	w.	2	0.9		0	fg.			0	0	clear	J. B. Campbell.
Galveston, Texas	30.04	763.0	30.08	764.0	58.4	14.7	100	s.	4	1.8		0	fg.			0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.07	738.4	29.78	756.4	23.0	— 5.0	80	sw.	18	8.0			10 s		sw.	0.08	2.0	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.32	643.1	30.22	767.6	40.4	4.7	65	ne.	4	1.8		1 c	0			0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	30.06	763.5	30.07	763.8	58.0	14.4	81	sw.	16	7.2	.....	6 c	3 k	sw.	w.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.73	653.5	30.11	764.8	32	0.0	81	w.	22	9.8	.....	0	6 s	.....	.....	0.18	4.6	fair	S. W. Morrison.
Huron, Dakota	28.55	725.2	30.09	764.3	— 0.4	—18.0	89	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	28.98	736.1	29.82	757.4	36.0	2.2	69	calm	0	0	.....	0	2 s	.....	.....	0.01	0.3	clear	C. F. R. Wappenhans.
Indianola, Texas	29.99	761.7	30.02	762.5	63.3	17.4	99	s.	11	4.9	.....	5 k	3 ks	.....	.....	0	0	cloudy	I. A. Reed.
Jacksonville, Florida	30.18	766.6	30.23	767.8	53.0	11.7	95	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.16	740.7	29.86	758.4	27.2	— 2.7	80	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.16	766.1	30.18	766.6	67.5	19.7	81	ne.	7	3.1	.....	0	3 k	.....	ne.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	48.2	9.0	91	sw.	14	6.3	.....	0	3 s	.....	.....	0.02	0.5	clear	Wesley Blake.
Knoxville, Tennessee	28.84	732.5	29.92	760.0	58.8	14.9	84	sw.	16	7.2	.....	.....	10 s	.....	sw.	0.05	1.3	threatening	J. A. Cody.
La Crosse, Wisconsin	28.97	735.8	29.81	757.2	13	—10.6	80	w	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	28.94	735.1	29.90	759.4	34	1.1	56	n	8	3.6	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	28.38	720.8	30.25	768.3	28.5	— 1.9	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.54	750.3	29.88	758.9	59.0	15.0	93	s.	8	3.6	.....	.....	10 n	.....	.....	0.84	21.3	light rain	W. U. Simons.
Los Angeles, California	29.70	754.4	30.10	764.5	54.8	12.7	51	ne.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.26	743.2	29.85	758.2	49.0	9.4	77	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.33	8.4	cloudy	L. M. Dey.
Lynchburg, Virginia	29.22	742.2	29.94	760.5	46.0	7.8	88	s.	2	0.9	.....	.....	10s;fg	.....	.....	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	28.92	734.6	29.62	752.3	15.0	— 9.4	91	w.	8	3.6	.....	.....	10 n	.....	.....	1.50	38.1	heavy snow	D. B. Notson.
Macon, Fort, North Carolina	30.08	764.0	30.08	764.0	53.0	11.7	90	s.	18	8.0	.....	5 cs	3 k	sw	sw.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.32	643.1	30.09	764.3	20.7	— 6.3	35	nw.	36	16.1	.....	10 k	0	nw.	.....	0.14	3.6	cloudy	F. Burke.
Marquette, Michigan	28.87	733.3	29.65	753.1	8.4	—13.1	67	w.	3	1.3	.....	0	5 s	.....	w.	0.06	1.5	fair	J. Gilligan.
Memphis, Tennessee	29.53	750.0	29.89	759.2	59.1	15.1	92	sw.	8	3.6	.....	.....	10 s	.....	.....	0.55	14.0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.00	736.6	29.80	756.9	19.2	— 7.1	63	w.	15	6.7	.....	7 cs	0	w.	.....	inap.	inap.	fair	S. W. Rhode.
Mobile, Alabama	30.09	764.3	30.13	765.3	55.8	13.2	93	s.	4	1.8	.....	8 ck	fg.	sw.	.....	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.88	758.9	30.12	765.0	60	15.6	93	sw.	8	3.6	.....	.....	10s;fg	.....	sw.	inap.	inap.	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	28.85	732.8	29.96	761.0	—21	—29.4	100	nw.	6	2.7	.....	0	0	.....	.....	0.02	0.5	clear	H. Bessant.
Mt. Washington, N. H.	23.23	590.0	29.86	758.4	24.0	— 4.4	100	w.	75	33.5	.....	.....	fg.	.....	w.	0.04	1.0	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.29	744.0	29.90	759.4	54.5	12.5	93	sw.	8	3.6	.....	.....	10 n	.....	sw.	0.65	16.5	light rain	L. N. Jesunofsky
New Haven, Connecticut	29.69	754.1	29.81	757.2	35.8	2.1	100	sw.	5	2.2	.....	.....	10s;fg	.....	.....	0.39	9.9	cloudy	J. H. Sherman.
New London, Connecticut	29.78	756.4	29.83	757.7	37.5	3.1	95	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.23	5.8	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.05	763.3	30.11	764.8	62.0	16.7	96	s.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	M. Herman.
New York, New York	29.65	753.1	29.84	757.9	39.0	3.9	91	s.	4	1.8	.....	.....	10s;fg	.....	.....	0.09	2.3	threatening	H. J. Penrod.
Norfolk, Virginia	29.98	761.5	30.01	762.2	46.3	7.9	97	sw.	6	2.7	.....	6 cs	4 ks	nw.	w.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	26.90	683.2	30.02	762.5	31.6	— 0.2	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. J. Mc Lean.
Olympia, Washington Ter	30.20	767.1	30.24	768.1	32.0	0.0	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.71	729.2	29.98	761.5	25.0	— 3.9	76	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak
Oswego, New York	29.35	745.5	29.70	754.4	38.0	3.3	62	w.	18	8.0	.....	.....	10 s	.....	w.	0.08	2.0	cloudy	J. G. Linsley.
Palestine, Texas	29.46	748.3	30.04	763.0	64.5	18.1	84	s.	16	7.2	.....	.....	10s;fg	.....	.....	0	0	cloudy	P. T. Jenkins.
Pensacola, Florida	30.12	765.0	30.15	765.8	60.1	15.6	98	se.	6	2.7	.....	3 cs	4 ks	w.	sw.	0	0	fair	M. McGauran.
Philadelphia, Pa.	29.73	755.1	29.84	757.9	42	5.6	92	sw.	10	4.5	.....	.....	10s;fg	.....	sw.	0.23	5.8	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.35	440.7	30.05	763.3	— 3.0	—19.4	79	w.	70	31.2	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	28.98	736.1	29.83	757.7	45.8	7.7	76	w.	8	3.6	.....	.....	10 s	.....	w.	0.07	1.8	cloudy	O. D. Stewart
Poplar River, Montana	.....	.....	.....	.....	— 3.1	—19.5	92	w.	.....	.....	1	0	0	.....	.....	0.01	0.3	clear	G. A. Garden.
Port Huron, Michigan	29.00	736.6	29.73	755.1	21.3	— 5.9	84	sw.	10	4.5	.....	0	0	.....	.....	0.26	6.6	clear	M. H. Perry
Portland, Maine	29.59	751.6	29.64	752.8	38.0	3.3	86	sw.	9	4.0	.....	.....	10 s	.....	sw.	0.15	3.8	cloudy	W. W. Eichelberger.
Portland, Oregon	30.16	766.1	30.23	767.8	29.7	— 1.3	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	M. L. Hearne.
Prescott, Arizona	24.92	633.0	30.30	769.6	26.3	— 3.2	88	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	29.75	755.6	29.78	756.4	40.4	4.7	95	s	14	6.3	.....	.....	10 s	.....	sw.	0.28	7.1	cloudy	C. N. Kitchel.
Red Bluff, California	29.82	757.4	30.19	766.8	42	5.6	100	n.	6	2.7	.....	0	0	.....	.....	0.06	1.5	clear	J. R. Williams.
Rio Grande City, Texas	29.84	757.9	30.09	764.3	63.0	17.2	92	se.	3	1.3	.....	.....	fg.	.....	se.	0	0	dense fog	L. G. Schultz.
Rochester, N. Y.	29.02	737.1	29.73	755.1	33	0.6	78	w.	31	13.9	.....	.....	10 k	.....	w.	0.08	2.0	cloudy	E. W. McGann.
Roseburg, Oregon	29.67	753.6	30.24	768.1	35	1.7	89	s.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. Naury.
Sacramento, California	30.05	763.3	30.13	765.3	39.0	3.9	94	n.	6	2.7	.....	0	0	.....	.....	0.38	9.7	clear	J. A. Barwick
St. Louis, Missouri	29.17	740.9	29.83	757.7	45.0	7.2	60	sw.	17	7.6	.....	0	sk.	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.43	772.9	30.47	773.9	—19	—28.3	100	w	.....	.....	1	0	0	.....	.....	0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	28.92	734.6	29.86	758.4	2.5	—16.4	100	w.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	P. F. Lyons.
St. Vincent, Minnesota	28.96	735.6	29.94	760.5	—21.4	—29.7	100	nw.	5	2.2	.....	0	0	.....	.....	0.04	1.0	clear	C. B. Dilley.
Salt Lake City, Utah	25.78	654.8	30.35	770.9	33.4	0.8	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	29.98	761.5	30.05	763.3	55.3	12.9	69	ne.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	F. R. Day.
Sandusky, Ohio	29.10	739.1	29.82	757.4	33	0.6	78	sw.	5	2.2	.....	0	0	.....	.....	0.31	7.9	clear	B. F. Hough.
Sandy Hook, New Jersey	29.82	757.4	29.85	758.2	39.4	4.1	89	w.	13	5.8	.....	.....	10 s	.....	sw.	0.16	4.1	cloudy	V. P. Chappel.
Sanford, Florida	30.16	766.1	30.20	767.1	52.0	11.1	96	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. B. Marbury
San Francisco, California	30.03	762.7	30.10	764.5	49.5	9.7	84	se.	9	4.0	.....	0	4 s	.....	s.	0.72	18.3	fair	N. Gorom.
Savannah, Georgia	30.08	764.0	30.18	766.6	50.5	10.3	87	sw.	8	3.6	.....	2 c	fg.	w.	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.16	664.5	30.02	762.5	32	0.0	71	sw.	18	8.0	.....	6 cs	0	.....	.....	0.09	2.3	fair	A. L. Mathews.
Shreveport, Louisiana	29.69	754.1	29.94	760.5	62.4	16.9	86	s.	7	3.1	.....	.....	10 s	.....	s.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	29.80	756.9	29.88	758.9	40.2	4.6	68	e.	11	4.9	.....	.....	10 n	.....	e.	0.25	6.3	light rain	F. W. Fickett.
Smithville, North Carolina	30.07	763.8	30.11	764.8	50.5	10.3	98	sw.	10	4.5	.....	5 c	0	.....	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.08	713.2	30.22	767.6	29.0	— 1.7	84	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.13	739.9	29.86	758.4	31.6	— 0.2	83	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.04	686.8	30.18	766.6	45.0	7.2	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.11	764.8	.....	.....	39.3	4.1	91	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.46	697.5	30.29	769.4	33	0.6	85	calm	.....	.....	0	0	2 s	.....	.....	0	0	clear	R. O. Lord.
Toledo, Ohio	29.08	738.6	29.82	757.4	30	— 1.1	68	w.	4	1.8	.....	0	0	.....	.....	0.53	13.5	clear	A. Buell.
Unalashka, Alaska	30.34	770.6	30.36	771.1	38	3.3	82	se.	8	3.6	.....	0	4 s	.....	.....	0	0	fair	Samuel Applegate.
Vicksburg, Mississippi	29.80	756.9	30.07	763.8	62.5	16.9	87	sw.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	C. Dill.
Washington, D. C.	29.77	756.1	29.89	759.2	43.9	6.6	95	s.	4	1.8	.....	.....	10 n	.....	sw.	0.08	2.0	light rain	T. B. Harrison.
West Las Animas, Colorado	25.89	657.6	30.02	762.5	28	— 2.2	52	w.	8	3.6	.....	0	3 s	.....	nw.	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.03	762.7	30.09	764.3	52.0	11.1	90	sw.	8	3.6	.....	1 cs	1 s	.....	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	28.62	726.9	30.04	763.0	8.8	—12.9	76	n.	16	7.2	.....	0	0	.....	.....	inap.	inap.	clear	E. H. Thompson.
Yuma, Arizona	29.98	761.5	30.13	765.3	49.6	9.8	79	calm	0	0	.....	0	9 s	.....	.....	0	0	cloudy	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.21	741.9	29.23	742.4	33.1	0.6	88	se.	12	5.4	.....	.....	10 n	.....	.....	0.40	10.2	snowing	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	.....	nw.	.....	.....	2	0	3 k	.....	ne.	0.27	6.9	fair	W. H. Jackson.
Bogota, U. S. C.	22.02	559.2	.....	.....	54.5	12.5	81	calm	0	0	.....	.....	9 k	.....	e.	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.37	740.0	29.53	750.0	-37	—38.3	100	sw.	5	2.2	.....	5 c	0	sw.	.....	0	0	fair	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.10	764.5	68.0	20.0	88	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77	25.0	91	e.	.....	.....	3	5 k	8 ps	e.	e.	0.420	10.7	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.40	746.7	29.90	761.0	78	25.6	89	s.	.....	.....	1	.....	10 ks	.....	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	90	ne.	.....	.....	1	.....	.....	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	30.23	767.8	30.30	769.6	—34.0	—30.7	.....	w.	10	4.5	.....	0	1 s	.....	w.	0	0	.....	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.97	761.2	29.98	761.4	79.5	26.4	82	n.	13.0	5.8	.....	0	8 k	.....	n.	.....	.....	fair	P. Fasiani.
Naos, Bay of Panama	29.90	759.4	29.97	761.1	73.4	23.0	91	nw.	.....	.....	4	0	3 ks	.....	n.	.....	.....	clear	Antonio Fabre.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, English Channel†	29.89	759 2				sw.			5		8		sw.	8 h'r	8 h'r	mod.	sw.	
S. S. Alleghany. Baltimore, Md. †	29.83	757.7	46	7.8		calm			0		10							foggy.
Schr. Anna A. Holton, N. 40° 02′, W. 73° 49′						s.			5		10		s.	2 h'r	2 h'r	r'gh		cloudy.
S. S. Alps, N. 18° 25′, W. 67° 10′			79	26.1		nne.			3		4		nne.	0	0		n.	
S. S. Circassian, N. 49° 20′ W. 39° 10′	30.28	769.1	44	6.7	84	nnw.			4		4		nnw.			4	nne.	d. clouds.
S. S. France, N. 49° 13′, W. 21° 31′						nw.			8		9		nw.	rain	rain	r'gh	nw.	gloomy.
Bg. Lilian, N. 28° 32′, W. 62° 30′ †	29.91	759.7				n.			6		5		n.	½h'r	½hr	mod.	var.	
S. S. Lessing, N. 48° 21′, W. 26° 19′	29.62	752.3	48	8.9		wnw.			6		8		nnw.	1 h'r	1 h'r	h'vy	nnw.	squally.
S. S. Mentmore, N. 45° 55′. W. 46° 20′						n.			2		10			0	0	mod.	n.	cloudy.
S. S. Neckar, N. 52° 01′, E. 2° 41′	29.74	755.4	49.0	9.4	93	ssw.			4–6		7		sw.	rain	rain	mod	sw.	
S. S. Nova Scotian, N. 47° 26′, W. 26° 08′			46	7.8		wnw.			6		10		wnw.			mod.	wnw.	cloudy.
S. S. Pavonia, N. 41° 08′, W. 68° 35′	29.91	759.7	49	9.4	92	ssw.			5		10			0	0	sli't	ssw.	overcast.
S. S. Romano, New York Harbor, N. Y	29.88	758.9	40	4.4		s.			3		10							hazy.
Bgt. Sunlight, N. 39° 28′, W. 73° 45′						wsw.			5		10		nw	20 h'r	20 h'r	mod.	ese.	rainy.
S. S. Thingvalla, New York, N.Y†	29.87	758 7	39.2	4		s.												misty.
S. S. Valencia, N. 36° 23′, W. 73° 05′ †	30.09	764.3	67	19.4	79	sw.			7		9		wsw.	0	0	h'vy	var.	cloudy.
S. S. Andes, N. 31° 30′, W. 74° 15′ *†	30.30	769.6	64	17.8		n.			1		2		n.	0	0	sm'h	n.	
Bk. Ariadne, New York, N. Y			38	3 3		ssw.			2		9		ssw.	12 h'r	12 h'r			cloudy.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I			72	22.2		nne.			1		0			0	0			clear
Schr. Arthur Burton, N. 24° 40′, W. 80° 20′						ne.			3		4		ne.	0	0	r'gh	ne.	fair.
Bk. Anreola, N. 30° 21′, W. 69° 13′†	30.10?	764.5?				nne.			2		0			1 h'r	1 h'r	h'vy	con	clear.
U. S. S. Alliance, N. 19° 47′, W. 72° 17′	30.17	766.3	74	23.3	76	e.			2		5		calm	light	light	mod.	e.	fair.
S. S. Britannic, N. 47° 25′ W. 44° 30′	30.37	771.4	31	— 0.6		w			4		3		nw.	3 h'r	3 h'r	long	wnw.	d. clouds.
S. S Bothnia. N. 40° 17′, W. 70° 12′			51	10.6	100	sw.			4		10		ssw.	5 h'r	5 h'r	mod	ene.	gloomy.
S. S. British Princess, N. 46° 56′, W. 33° 00′†	30.00	762.0	44	6.7		nnw.			5		8					r'gh	wsw.	showery.
S. S. Chalmette, N. 25° 33′, W. 84° 25′ †	30.20	767.1	70	21.1		ese.			4		2		se.	0	0	sm'h		clear.
S. S Donau, N. 46° 28′, W. 42° 59′	30.42	772.7	37.4	3		n.			4		10		n.	3 h'r	3 h'r	long	n.	overcast.
S. S. England, N. 48° 38′, W. 37° 36′	30.23	767.8				nw.			4		0			0	0	mod.	n.	clear.
Schr. Ellen Crusoe, Block Id, R.I *†	29.78	756.4				s.							s.	4 h'r	4 h'r	short		hazy.
S. S. Gallia, N. 48° 17′, W. 32° 24′	30.00	762.0	47	8.3		nne.			6		5		n.	0	0	mod.	n.	fair.
Bg. George, N. 30° 30′. W 70° 30′ *†	30.23	767.8				nne.			1		2			0	0	mod.	nne.	fair.
S. S. Grecian, Dunkirk, Belgium	29.87	758.7	51	10.6	93	sw.			3		9		wsw.	20 h'r	20 h'r			cloudy.
S. S. Holland, N. 46° 42′, W. 42° 02′			32	0.0		wnw			4		5		w.	0	0	mod.	wnw.	fair.
S. S. Hermann, N. 49° 30′, W. 19° 27′	29.20	741.7	54.0	12.2	98	nw.			10		10		nw.	2 h'r	2 h'r	r'gh	nw.	rainy.
S. S. Lord Clive, N. 50° 06′, W. 19° 32′	29.23	742.4				nnw.			10		10		nnw.	7 h'r	7 h'r	h'vy	cross	heavy gale.
S. S. Muriel, N. 25° 26′ W. 66° 45′	30.18	766.6	76	24.4		nnw.			4		0			0	0	r'gh	n.	clear.
S. S. Ontario, Sambro Ids N. S.			38	3.3		sw.			6		10		nw.	8 h'r	8 h'r			misty.
S. S. Rhaetia, N. 49° 32′, W. 30° 11′			42	5.6	96	wnw.			6		6		wnw.	0	0	r'gh	nnw.	fair.
Bk. Saga, N 37° 06′, W. 74° 19′ *†	30.06	763.5	56	13.3		var.			4		5		var.	0	0	r'gh	ene	fair.
S. S. State of Nebraska, N. 55° 13′, W. 15° 40′*†	29.41	747.0	48	8.9		ne.			6		10		ne.	0	0	con.		gloomy.
S. S. Samaria, off Queenstown, Ireland	29.38	746.2	51	10.6		s.			6		10			7 h'r	7 h'r	r'gh	ssw.	hazy.
S. S. Salerno, N 47° 55′, W. 33° 40′ †	30.10	764.5	45	7.2		nnw.			3		5		nw.	0	0	mod.	nw.	fair.
S. S. St. Laurent, N. 48° 45′, W. 27° 15′			53.6	12.0		n.			7		8		n.	snow	snow	long	n.	squally.
U. S. S. Swatara, Port au Prince, Hayti, W.I	30.20	767.1	73	22.8	81	e.			2		0			0	0			clear.
U. S. S. Tennessee, N. 18° 19′, W. 83° 30′	30.07	763.8	76	24.4	82	e.	14	6.3			8		e.	light	light	mod.	ne.	cloudy.
U. S. S. Vandalia, La Guayra, Venezuela	30.04	763.0	76	24.4	86	ene.			2		5		e.					fair.
S. S. Wyoming, N. 49° 40′. W. 30° 54′	29.90	759.4	42	5.6		nnw.			7		7		nw.	6 h'r	6 h'r	h'vy	nw.	squally.
S. S. Westernland, N. 49° 14′, W. 28° 56′	29.67	753.6	43	6.1		w.			5		7		wnw.	10 h'r	10 h'r	high	wnw.	fair.
S. S Zeeland, N. 45° 25′, W. 46° 56′ *†			33	0.6		nnw.			4		10		wnw.	0	0	short	w.	overcast.
U. S. Navy Yard, Portsmouth, N. H.			36	2.2	90	sw.	7	3.1			10		ssw.	0.4	10.			cloudy.
U. S. S. Kearsarge, Civita Vecchia, Italy	30.36	771.1	58	14.4	88	se			3		8							cloudy.
U. S. S. Lancaster, Leghorn, Italy			56	13.3	100	calm			0		8			0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	29.79	756.7	38	3.3	100	sw.			4		10					mod.	sw.	overcast.
U. S. S. Quinnebaug, Leghorn, Italy	30.35	770.9	55	12.8	93	wsw.			1		8		sw.			sm'h		fair.
U. S. S. Shenandoah, Porto Praya, Cape Verd Ids *	30.02	762.5	79	26.1	58	ne.			2		2							fair.
U. S. S. Trenton, Marseilles, France	30.37	771.4	45	7.2	84	sse.			1		10		se.					cloudy.
H. M. S. Alexandra, Malta, Mediterranean	30.46	774.2	60	15.6	88	nnw.			1		1	nnw.						blue sky.
H. M. S. Alecto, N. 8° 30′, W. 13° 15′	29.89	759.2	83	28.3		nw.			1		0							misty.
H. M. S. Comus, N. 37° 00′, W. 19° 00′	30.22	767.6	57.5	14.2	85	sse.			4–6		5					6	wnw.	squally.
H. M. Dockyard, Bermuda, Atlantic	30.02	762.5	63	17.2	67	nw.			5		4	nnw.						d. clouds.
H. M. S. Minotaur, Palmas Bay, Sardinia	30.38	771.6	57	13.9	90	sw.			1		1							blue sky.
H. M. S. Tyne, N. 26° 10′, W. 17° 00′	30.22	767.6	69	20.6	75	ne.			4			n.				3	nne.	misty.
H. M. S. Woodlark, N. 34° 12 E. 17° 06′	30.43	772.9	61	16.1	66	nw.			3		3	nw.				4	nnw.	d. clouds.
H. P. M. S. Douro, N. 6° 19′, E. 2° 00′	29.91	759.6	84.2	29.0	85	sw.			4		4		nw.	0	0	2	sw.	d. clouds.
S. S. Ohio, (Am) N. 39° 19′, W. 72° 01′*†	29.96	761.0	50	10.0	86	sw.			2		9		sw.	7 h'r	7 h'r	mod.	se.	cloudy.
S. S Pennsylvania, N. 50° 55′, W. 22° 30′ †	29.50	749.3	45	7.2	68	nw.			6		9		nnw.	2 h'r	2 h'r	h'vy	nnw.	squally.
S. S. Prussian, N. 42° 39′, W. 62° 17′			46	7.8		s.			5		9		s.	2 h'r	2 h'r	mod.	s.	overcast.
S. S. Scandinavian, N. 46° 30′, W. 43° 21′	30.42	772.7	32	0.0		nw.			4		10		nw.	0	0	mod.	n.	overcast.
S. S. Ailsa, Kingston, Jamaica, W.I			73.5	23.1	93	ne.			1		1		ne.	0	0	sm'h		fine.
S. S. Carroll, N. 42° 28′, W. 70° 32′						sw.			3		10		sw.	hv'y	hv'y	long	s.	cloudy.
S. S. Bohemia, Hamburg, Germany						w.			2–3		9		s.	6 h'r	6 h'r			overcast.
S. S. Virginian, N. 48° 54′ W. 33° 00′			50	10.0		w			4				nw.	0	0	mod.	ssw.	squally.
S. S. Hevelius, Liverpool, Eng*†	29.60	751.8	45	7.2		sse.			4		5?		se.	8 h'r	8 h'r			overcast?
S. S. Olbers, N. 51° 49′, W. 7° 24′	29.48	748.8	50.5	10.3	?	sse.			6		10							raining.
S. S. City of Washington, N. 21° 20′, W 89° 38′*†	30.15	765.8	79	26.1		ene.			2		5		ene.	0	0	sm'h		fine.
S. S. Erin, London, Eng			56	13.3		sw.			6		5		ssw.	2 h'r	2 h'r			drizzling.
S. S. Greece, N. 43° 10′, W. 48° 11′ †	30.50	774.7	37	2.8	90	ne.			1		0			0	0	sm'h	nne.	clear.
S. S. Habsburg, N. 49° 39′. W. 7° 50′	29.56	750.8				sw.			7		10		sw.	10 h'r	10 h'r	cross	sw.w	raining.
S. S. Salier, N. 49° 27′, W. 22° 03′						wnw.			7		10		nw.	8 h'r	8 h'r	h'vy	var.	rainy.
S. S. Rhynland, Flushing, Netherlands			54	12.2	93	ssw.			3		10			sh'rs	sh'rs			foggy.
S. S. Waesland, N. 44° 55′, W. 47° 33′	30.43	772.9	35	1.7		calm			0		7		w.	0	0	mod	n.	clearing.
S. S. State of Nevada, Glasgow, Scotland *†	29.52	749.8	49	9.4		ese.			4		10		ese.	0	0			overcast.
S. S. Saxon, N. 42° 15′, W. 70° 25′	29.71	754.6	40	4.4		sw.			4		10						ne.	threatening.
S. S. Celtic, Liverpool, Eng*†	29.57	751.1	48	8.9		ssw.			4		10		ssw.	10 h'r	10 h'r			raining.
S. S. Marengo, N. 50° 49′, E. 0° 42′			49	9.4		ssw.			6		10		sw.	3 h'r	3 h'r	r'gh	ssw.	overcast.
S. S. Rialto, N. 45° 03′, W. 28° 15′ †	30.06	763.5	52	11.1		wsw.			5		8		w.	4 h'r	4 h'r	high	w.	cloudy.
Bg, Alcira. Maracaybo, Venezuela			79	26.1		nne.			1		1		ne.	0	0			clear.
S. S. Antonio Lopez, Cadiz, Spain	30.34	770.6	64.5	18.1	70	wnw.			3		0			0	0			clear.
Schr Adda Doane, N. 18° 27′, W. 75° 42′ †	30.15	765.8				ne.			4		3		ne.	1 h'r	1 h'r	short	ne.	clear
Bgt Achsah, Clementsport, N.S	29.78	756.4	42	5.6		sw.			5		10		w.	0	0			cloudy.
Bk. Bayonnaise, N. 36° 05′, W. 20° 07′	30.25	768.4	61.7	16.5		nw.			5		4		nw.	2 h'r	2 h'r	r'gh	sw.	clear.
Bk. Chas. Stewart, N. 36° 27′, W. 23° 00′						n.			6		3		nw.	sh'rs	sh'rs	rg'h	var.	fair.
Schr. C. R. Flint, N. 22° 40′, W. 56° 01′†	30.13	765.3	76	24.4		nw.			3		4		nw.	3 h'r	3 h'r	mod.	nw.	clear.
Schr. Clotilde, N. 33° 21′, W. 74° 52′ †	30.21	767.3	68	20.0		sw.			3		5		sw.	0	0	long	ne.	fair.
Bk. Celestina, N. 6° 09′, W. 25° 09′ *†	30.01	762.2				nne.			1		0			0	0	long	sse.	clear.
S. Dora, N. 57° 54′, W. 25° 47′ *†	29.56	750.8	41.9	5.5		wnw.			3		4		nnw.	0	0	mod.	nne.	blue sky.
S. E. J. Spicer, N. 46° 57′, W. 16° 27′	29.45	748.0	55	12.8	93	sw.			9		10		sw.	12 h'r	12 h'r	high	w.w.	heavy rain.
Bk. Fred W. Carlon, N. 23° 29′, W. 82° 30′ †	30.21	767.3				e.			5		2		e.	0	0	mod.	e.	clear.
S. Hedwig, N. 36° 21′, E. 15° 36′	30.45	773.3	58.1	14.7	84	nw.			1		0			0	0	2	nw.	clear.
Bk. Hattie G. McFarland, Ship Island, Miss						s.			2		6		sw.	0	0			hazy.
S. Henry, N. 35° 56′, W. 1° 54′*	30.28	769.1	55.8	13.2		ese.			2							sm'h		hazy.
Bg. John Wesley, Havana, Cuba, W.I						se.			1		2		ne.	2 h'r	2 h'r			clear
Schr. John L. Thomas, Hobbles Clays, C. A†	30.00	762.0	77	25.0	86	ne.			4		2		ene.	0	0	mod.	ene.	clear.
Bg. L. & W. Armstrong, N. 17° 08′, W. 62° 47′ †	30.08	764.0				nne.			1		1		ne.	0	0	sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind. Upper.	Amount and kind. Lower.	Direction. Upper.	Direction. Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Laurel, Key West, Fla†	30.20	767.1	68	20.0	.....	ene.	.....	.....	2	.....	7	.....	ese.	0	0	.....	.....	fair.
S. S. Madrid, Shields, Eng	.....	.....	46	7.8	92	ssw.	.....	.....	4	.....	10	.....	ssw.	1 h'r	1 h'r	.....	.....	raining.
Schr. Maria Matilda, N. 26° 26′, W. 76° 21′	.....	.....	71	21.7	62	s.	.....	.....	2	.....	8	.....	.....	0	0	.....	.....	fine.
Schr. Noreno, N. 26° 48′, W. 62° 50′	.....	.....	.....	.....	.....	nnw.	.....	.....	4	.....	3	.....	nnw.	6 hr	6 hr	high	wnw.	d. clouds.
S. Parker M. Whitmore, N 22° 13′, W. 38° 34′*†	30.15	765.8	76	24.4	.....	e.	.....	.....	5	.....	3	.....	e.	0	0	long	n.	fair.
S. S. P. de Satrastegui, Coruna, Spain	30.03	762.7	.....	.....	.....	sw.	.....	.....	6	.....	7	.....	sw.	0	0	r'gh	var.	hazy.
Bg. Rising Sun, N. 7° 15′, W. 57° 05′†	30.05	763.3	80	26.7	.....	ene.	.....	.....	5	.....	5	.....	ene.	0	0	long	ene.	fair.
Bk. Rosalie, Queenstown, Ireland*†	29.41	747.0	.....	.....	.....	s.	.....	.....	6	.....	10	.....	s.	3 h'r	3 h'r	mod.	wsw.	cloudy.
S. Salisbury, N. 18° 09′, W. 55° 05′	30.19	766.8	76.1	24.5	82	sw.	.....	.....	1	4 ck	.....	sw.	.....	0	0	long	nw	fair.
Bk. Silica, N. 36° 36′, W. 48° 54′*	30.29	769.4	.....	.....	.....	e.	.....	.....	8	.....	10	.....	e.	.....	.....	h'vy	e.	cloudy.
Bk. Tuck Sing, N. 22° 56′, W. 84° 30′*†	30.15	765.8	.....	.....	.....	e.	.....	.....	3	.....	0	.....	.....	0	0	light	ne.	clear.
Bg. Teneriffe, N. 31° 25′, W. 73° 10′	30.28	769.1	.....	.....	.....	nw.	.....	.....	1	.....	1	.....	n.	light	light	3	nne.	
S. S. City of Alexandria, Vera Cruz, Mexico *†	30.08	764.0	72	22.2	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	small	n.	misty.
S. S. Crescent City, N. 25° 50′, W. 73° 55′ *†	30.20	767.1	66	18.9	.....	ne.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	ne.	clear.
District No. 2—South Atlantic.																		
U. S. S. Nipsic, Buenos Ayres, La Plata*	29.86	758.4	73	22.8	90	sse.	.....	.....	2	.....	8	.....	.....	.....	.....	sm'h	.....	fair.
U. S. S. Pinta, S. 30° 19′, W. 47° 46′	29.95	760.7	78	25.6	78	nne.	.....	.....	2	.....	8	.....	calm	.....	.....	long	se.	cloudy
H. M. S. Amethyst, S. 39° 05′, W. 59° 40′	29.89	759.2	63.2	17.3	87	s.	.....	.....	4	.....	4	s.	.....	.....	.....	3	s.	d. clouds.
H. M. S. Boadicea, Ascension Island, Africa	29.97	761.2	81	27.2	.....	ese.	.....	.....	1	.....	2	ese.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Opal, Simons Bay, Cape Colony	30.04	763.0	71	21.7	75	sse.	.....	.....	5	.....	3	sse.	.....	.....	.....	.....	.....	squally.
S. S. Sirius, Rio de Janeiro, Brazil	29.94	760.5	.....	.....	.....	calm	.....	.....	0	.....	1	.....	ssw.	0	0	.....	.....	clear.
S. S. Teniers, S. 18° 01′, W. 36° 34′	30.02	762.5	82.5	28.1	78	nne.	.....	.....	5	.....	5 k	.....	.....	0	0	con.	ene.	d. clouds.
Bk. Horace Scudder, St Paul de Loando, Benguela*†	30.10	764.5	81	27.2	.....	nw.	.....	.....	3	.....	8	.....	w.	c	0	.....	.....	fair.
Bkt. Levanter, S. 33° 00′, W. 50° 14′*	29.91	759.7	73	22.8	.....	nnw.	.....	.....	4	.....	10	.....	n.	0	0	long	se.	cloudy.
S. St. David, S. 23° 53′, W. 23° 12′ *†	30.19	766.8	79	26.1	82	ne.	.....	.....	3	.....	8	.....	var.	3 h'r	3 h'r	light	var.	squally.
S. David Stewart, S. 7° 29′, W. 34° 19′†	29.82	757.4	86	30.0	.....	e.	.....	.....	3	.....	2	.....	se.	0	0	mod.	se.	hazy.
Bk. Winifred, S. 23° 18′, W. 42° 30′ *†	29.90	759.4	.....	.....	.....	var.	.....	.....	.....	.....	.....	.....	var.	0	0	.....	.....	clear.
Bk. Godeffroy, S. 25° 44′, W. 22° 16′	30.05	763.3	77.4	25.2	80	nnw.	.....	.....	4	.....	4	.....	.....	rain	rain	mod.	w; n.	fair.
S. Oreola, S. 10° 06′, W. 31° 34′*	30.00	762.0	.....	.....	.....	e.	.....	.....	5	.....	2	.....	e.	0	0	mod.	e.	clear.
District No. 3—North Pacific.																		
U. S. Naval Hospital, Yokohama, Japan	29.89	759.2	37	2.8	57	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Adams, Sitka, Alaska†	29.87	758.7	38	3.3	90	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	light rain.
U. S. S. Alert, N. 18° 30′, E. 153° 36′	29.99	761.7	77	25.0	91	ne.	.....	.....	4	.....	2	.....	ne.	.....	.....	sm'h	ne.	clear.
U. S. S. Essex, Canton, China	30.18	766.6	68	20.0	84	nnw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. S. Juniata, Shanghai China	30.53	775.4	41	5.0	91	n.	.....	.....	2	.....	10	.....	.....	light	light	.....	.....	cloudy.
U. S. S. Monocacy, Shanghai, China	30.48	774.2	41	5.0	65	nne.	.....	.....	2	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
U. S. S. Richmond, Shanghai, China	30.51	774.9	42	5.6	75	nnw.	.....	.....	3	.....	10	.....	nnw.	0.30	7.6	.....	.....	cloudy.
H. M. S. Audacious, Hong Kong, China	30.10	764.5	67	19.4	95	e.	.....	.....	2	.....	7	e.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Cleopatra, N. 24° 05′, E. 118° 04′	30.19	766.8	58	14.4	76	e.	.....	.....	4	.....	10	ese.	.....	.....	.....	3	.....	overcast.
H. M. S. Champion, Shanghai, China	30.51	774.9	41	5.0	100	n.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
H. P. M. S. Tamega, Macao China	30.17	766.2	64.4	18.0	80	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Oregon, N 40° 55′, W. 124° 40′	.....	.....	50	10.0	86	ne.	.....	.....	4	.....	0	.....	.....	.....	.....	light	wnw.	clear.
S. S. Alameda, Honolulu, Sandwich Islands†	29.86	758.4	68	20.0	95	ne.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Ancon, Point Arguello, Cal	30.04	763.0	57	13.9	100	nne.	.....	.....	2	.....	2?	.....	.....	0	0	mod.	w.	overcast?
S. S. City of Chester, near Cape Mendocino, Cal	.....	.....	46	7.8	84	nw.	.....	.....	4	.....	0	.....	.....	.....	.....	high	nw.	clear.
S. S. Orizaba, N. 35° 40′, W. 121° 15′ †	30.05	763.3	52	11.1	73	ese.	.....	.....	5	.....	10	.....	se.	12 h'r	12 h'r	long	var.	raining.
S. S. Queen of the Pacific, San Francisco, Cal†	30.09	764.3	50	10.0	86	n.	.....	.....	2	.....	0	.....	.....	11 h'r	11 h'r	.....	.....	clear.
S. S. State of California, San Francisco, Cal. †	30.11	764.8	48	8.9	78	e.	.....	.....	2	.....	4	.....	e.	.....	.....	.....	.....	fair.
S. S. City of Rio de Janeiro, N. 26° 50′, E. 170° 21′ †	30.23	767.8	71	21.7	.....	s.	.....	.....	3	.....	3	.....	se.	.....	.....	mod.	nw.	clear.
S. S. Granada, Panama, Panama †	29.93	760.2	76	24.4	77	nw.	.....	.....	1	.....	0	.....	.....	0	0	light	nw.	clear.
S. S. San Blas, N. 13° 32′ W. 89° 49′ †	29.93	760.2	75	23.9	90	e.	.....	.....	2	.....	2	.....	ne.	0	0	small	se.	hazy.
S. S. Zealandia, N. 10° 47′, W 102° 10′	.....	.....	77	25.0	77	ne.	.....	.....	3	.....	.....	.....	e.	9 h'r	9 h'r	mod.	ene.	showery.
Bk. Alpheus Marshall, N. 28° 10′, E. 137° 05′*†	29.91	759.7	67	19.4	84	nw.	.....	.....	4	.....	7	.....	nw.	1 h'r	1 h'r	mod.	nw.	threatening.
S. Carondelet, N. 0° 47′, E. 138° 59′ *†	29.91	759.7	.....	.....	.....	ne.	.....	.....	1	.....	4	.....	ne.	1 h'r	1 h'r	mod.	nne.	fair.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 7° 02′, W. 106° 43′	29.94	760.5	75	23.9	90	ese.	.....	.....	3	.....	2	.....	e.	0	0	sm'h	e.	clear.
U. S. S. Lackawanna, S. 6° 14′, W 81° 27′	29.92	760.0	75	23.9	90	se.	.....	.....	1	.....	8	.....	se.	.....	.....	sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.04	763.0	71	21.7	95	se.	.....	.....	1	.....	10	.....	se.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru *	29.98	761.5	68	20.0	100	calm	.....	.....	0	.....	5	.....	.....	.....	.....	sm'h	.....	fair.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.00	762.0	59	15.0	88	ssw.	.....	.....	2	.....	8	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.84	757.9	67	19.4	.....	nnw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	nnw.	d. clouds.
H. M. S. Nelson, S. 42° 54′, E. 147° 21′	30.09	764.3	55	12.8	93	n.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
H. M. S. Sylvia, off Sandy Point, Patagonia	28.83	732.3	50	10.0	86	calm	.....	.....	0	.....	9	calm	.....	.....	.....	.....	.....	d. clouds.
S. S. Australia, S. 34° 00′, E. 152 52′	30.21	767.3	65	18.3	.....	n.	.....	.....	4	.....	4	.....	n.	0	0	mod.	n.	hazy.
S. S. George S. Homer, S. 55° 56′, W. 84° 21′*†	29.72	754.9	.....	.....	.....	nw.	.....	.....	6	.....	7	.....	nw.	0	0	h'vy	wnw.	fair.
S. Ismir, S. 27° 21′, W. 87° 02′ *	30.35	770.9	.....	.....	.....	ese.	.....	.....	5	.....	3	.....	ese.	0	0	r'gh	se.	fine.
S. St. Francis, S. 11° 30′, W. 103° 45′*†	30.10	764.5	74	23.3	81	ese.	.....	.....	6	.....	3	.....	se.	0	0	mod.	se.	clear.
S. Grecian, S. 54° 05′, W. 93° 06′ †	29.48	748.8	56	13.3	81	sw.	.....	.....	6	.....	10	.....	ssw.	8 h'r	8 h'r	long	sw.	rainy.
S. Henry Failing, S. 55° 30′, W. 88° 10′ *†	29.53	750.0	51	10.6	.....	w.	.....	.....	6	.....	10	.....	w.	8 h'r	8 h'r	long	w.	raining.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	29.66	753.4	65	18.3	49	sw.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	squally.
District No. 5—Indian Ocean.																		
U. S. S. Brooklyn, Mozambique, Africa	29.74	755.4	83	28.3	83	ese.	.....	.....	4	.....	5	.....	ese.	1.41	35.8	sm'h	.....	fair.
U. S. S. Pensacola, S. 24° 32′, E. 49° 58′*	29.74	755.4	79	26.1	78	se.	.....	.....	5	.....	10	.....	se.	0.08	2.0	long	se.	cloudy.
H. M. S. Coquette, N. 15° 36′, E. 39° 21′	29.96	761.0	83	28.3	79	ne.	.....	.....	1	.....	4	n.	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Euryalus, Suakin, Egypt	29.98	761.5	74	23.3	76	n.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Orontes, S. 17° 40′, E. 40° 08′	29.96	761.0	79	26.1	74	calm	.....	.....	0	.....	3	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tourmaline, Vatoumandry, Madagascar	29.70	754.4	81	27.2	91	se.	.....	.....	2	.....	.....	.....	.....	.....	.....	3	ese.	d. clouds.
S. S. Galatia, Calcutta India †	29.93	760.2	78	25.6	78	nnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Port Phillip, S. 30° 27′, E. 107° 24′*	29.88	758.9	73	22.8	.....	se.	.....	.....	3–4	.....	.....	.....	.....	.....	.....	chop	.....	cloudy.
S. S. Radnorshire, N. 24° 00′, E. 36° 51′	.....	.....	.....	.....	.....	nnw.	.....	.....	5	.....	1	.....	nnw.	0	0	h'vy	nnw.	clear.
S. S. Lepanto, N. 28° 38′, E. 34° 44′	29.91	759.7	63	17.2	.....	wnw.	.....	.....	6	.....	4	.....	n.	2 h'r	2 h'r	r'gh	nw.	fair.
H. M. S. Magpie, N. 6° 32′, E. 99° 16′	29.87	758.7	82.3	27.9	75	nne.	.....	.....	1	.....	7	ene.	.....	.....	.....	.....	.....	d. clouds.

International Chart I. January 31, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

JANUARY, 1884.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for January, 1884. Mean Barometer. Actual. Inch.	Actual. Mill.	Reduced. Inch.	Reduced. Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	30.28	769.2	30.34	770 7	60.4	15.8	81	.....	5	12	1	2	5	5	1	.....	.....	.....	1	0	0
Algiers	N. 36 47	E. 3 05	0.20 p.m.	72	22	30.29	769.4	30.34	770.7	56.5	13.6	73	6	3	12	1	.....	1	4	2	2	.....	.....	5	0	0
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	30.21	767.2	30.28	769.0	59.5	15.3	72	9	9	5	1	1	1	3	2	.....	.....	.....	3	0	0
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	30.21	767.4	30.28	769.1	56.3	13.5	67.9	6	12	6	3	1	.....	.....	3	.....	.....	.....	3	0	0
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	27.27	692.6	30.26	768.7	49.3	9.6	84.7	11	2	3	3	5	2	3	2	.....	.....	.....	3	0	0
Geriville	N. 33 45	E. 1 10	0.13 p.m.	4281	1305	25.92	658.4	.....	.....	50.9	10.5	49	12	9	.....	2	.....	2	.....	6	.....	.....	.....	1	0	0
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2454	748	27.68	703 1	30.38	771 7	56.7	13.7	72.9	3	2	.....	2	1	.....	1	1	21	.....	.....	1	0	0
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	29.87	758.8	30.34	770.5	55.4	13.0	55	14	5	1	.....	.....	.....	.....	.....	11	.....	.....	1	0	0
AUSTRALIAN.																										
Adelaide	S. 34 57	E. 138 35	9.22 p.m.	140	42	.....	.....	29.97	761.2	65.5	18.6	60.0	.....	...	.....	6	11	5	1	1	7	.....	.....	4	.....	.....
Hobart Town	S. 42 53	E. 147 26	9.57 p.m.	190	58	29.56	750.8	29.75	755.6	56.4	13.6	75.0	1	6	0	4	7	4	1	.....	2	.....	.....	6	3.53	89.7
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.80	756.8	29.89	759.3	60.9	16.0	73.0	3	1	4	3	10	9	.....	1	.....	.....	.....	6	4.75	120.7
AUSTRIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.67	753.6	30.23	767.9	37.4	3.0	56.9	.....	3	7	10	.....	3	1	7	.....	.....	.....	6	0.31	7.9
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.27	743.4	30.07	763.7	35.6	2.0	81.0	1	4	12	7	2	1	.....	4	.....	.....	.....	7	1.70	43.3
Eperies	N. 48 58	E. 21 15	1.33 p.m.	846	258	29.22	742.1	30.13	765.4	27.0	—2.8	87.6	1	3	.....	.....	2	7	.....	.....	18	.....	.....	7	0.74	18.8
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.92	734.5	30.22	767.6	36.3	2.4	64.5	3	7	4	2	3	4	4	4	.....	.....	.....	3	0.18	4.5
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.69	728.6	30.20	767.0	31.5	—0.3	89.1	3	4	11	1	.....	11	1	.....	.....	.....	.....	7	0.27	6.8
Kremsmunster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.82	732.1	30.22	767.7	36.1	2.3	82.7	.....	5	13	3	.....	.....	1	4	5	.....	.....	7	2.59	65.7
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	29.01	736.9	30.04	763.1	32.4	0.2	76.0	1	5	8	6	2	4	2	3	.....	.....	.....	6	1.57	39.9
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	30.10	764.4	30.21	767.3	46.9	8.3	66.2	1	7	8	3	.....	3	4	5	.....	.....	.....	3	0.45	11.4
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.66	753.3	30.15	765.8	38.5	3.6	86.0	3	4	4	5	6	2	7	.....	.....	.....	.....	5	1.29	32 8
Szegedin	N. 46 15	E. 20 10	1.29 p.m.	279	86	29.90	759.5	30.20	767.0	35.8	2.1	70.3	4	7	5	6	5	1	.....	.....	3	.....	.....	6	0.98	24.8
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	30.16	766.0	30.26	768.5	45.9	7.7	58.8	1	.....	1	2	2	.....	5	3	17	.....	.....	3	1.01	25.6
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.45	747.9	30.19	766.7	43.9	6.6	60.4	.....	5	16	1	1	3	.....	1	4	.....	.....	5	1.05	26.7
BELGIAN																										
Arlon	N. 49 40	E. 5 48	0.32 p.m.	?	?	28.55e	725.1e	29.97e	761.3e	37.9	3.3	97.5a	1	2	5	17	.....	.....	1	5	....	.....	.....	5	4.34	110.2
Brussels	N. 50 51	E. 4 22	0.26 p.m.	187	57	29.95	760.8	30.17	766.2	43.9	6.6	84.8	.....	....	8	18	2	1	1	.....	1	.....	.....	8	2.35	59.7
Furnes	N. 51 04	E. 2 40	0.19 p.m.	20	6	30.11	764.7	30.13	765.2	46.2	7.9	85.8	.....	7	8	5	6	.....	.....	.....	.....	.....	.....	8	2.21	56.1
Maescyck	N. 51 06	E. 5 48	0.32 p.m.	115	35	30.03	762.8	30.16	766.0	44.6	7.0	81.4a	.....	8	7	8	6	.....	2	.....	.....	.....	.....	10	2.07	52.6
BRITISH.																										
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.96	761.0	45.4	7.4	83.2a	.....	.....	8	14	2	5	2	.....	.....	.....	.....	8	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.41	747.0	29.95	760.7	42.8	6.0	89.0	.....	.....	8	7	9	4	1	2	.....	.....	.....	9	.....	.....
Bradford d	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.56	750.8	29.95	760.7	45.0	7.2	82.9	.....	8	3	10	2	1	1	2	.....	.....	.....	9	4.81	122.2
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	30.04	763.0	30.07	763.8	80.7	27.1	70.1	.....	.....	.....	.....	.....	.....	.....	31	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	29.95	760.7	30.07	763.8	44.1	6.7	88.0	.....	4	14	10	1	1	1	.....	.....	.....	.....	8	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	160	49	29.93	760 2	30.11	764.8	45.5	7.5	84.8	.....	5	12	8	1	.....	2	.....	3	.....	.....	8	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.93	760.2	30.16	766.1	48.8	9.3	82.7	.....	3	11	7	8	.....	2	.....	.....	.....	.....	9	.....	.....
Fort Napier e	S. 30 00	E. 31 00	2.12 p.m.	2205	672	27.59	700.8	29.90	759.4	78.8	26.0	65.2	.....	2	1	.....	.....	5	4	16	.....	.....	.....	7	.....	.....
Freetown	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.03	752.6	29.86	758.4	86.7	30.4	62.7	8	.....	2	5	9	1	5	1	.....	.....	.....	2	.....	.....
Galway	N. 53 15	W. 9 03	11.32 a.m.	32	10	29.88	758.9	29.91	759.7	44.9	7.2	86.4	.....	1	9	15	3	.....	2	1	.....	.....	.....	8	5.41	137.4
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	30.31	769.9	30.36	771.1	60.6	15.9	89.4	.....	7	.....	1	.....	.....	18	5	.....	.....	.....	7	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.92	760.0	30.10	764.5	45.9	7.7	84.6	.....	2	3	18	5	.....	2	.....	1	.....	.....	8	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.91	759.7	30.22	767.6	47.5	8.6	88.8	2	5	7	8	5	1	2	1	.....	.....	.....	8	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	30.07	763.8	30.11	764.8	46.3	7.9	79.8	.....	3	11	11	4	.....	2	.....	.....	.....	.....	8	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.74	755 4	30.01	762.2	45.8	7.7	82.3	.....	3	5	20	1	2	.....	.....	.....	.....	.....	8	.....	.....
Malta	N. 36 00	E. 14 30	1.00 p.m.	70	21	30.10	764.5	30.18	766.6	56.6	13.7	68.2	.....	15	2	3	.....	4	.....	7	.....	.....	.....	5	2.74	69.6
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	30.17	766 3	30.21	767 3	69.8	21.0	77.7	3	1	.....	1	1	9	4	12	.....	.....	.....	6	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.85	758.2	30.08	764.0	46.1	7.8	83.9	.....	2	4	19	2	2	.....	2	.....	.....	.....	8	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	30.07	763.8	30.14	765.5	48.1	8.9	89.5	.....	3	3	14	2	.....	2	1	6	.....	.....	9	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	29.52	749.8	29.62	752.3	41.5	5.3	86.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....
Scutari Cemet'y	N. 41 00	E. 29 03	2 04 p.m.	60	18	30.03	762.7	30.10	764.5	43.2	6.2	76.3	12	.....	1	8	5	.....	1	3	1	.....	.....	7	.....	.....
Sheffield	N. 53 23	W. 1 28	0 02 p.m.	260	79	29.64	752.8	29.90	761.0	45.8	7.7	83.5	.....	1	3	18	3	1	1	.....	4	.....	.....	7	3.89	98.8
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.83	757.7	29.87	758.7	43.8	6.6	93.4	.....	2	10	11	1	2	5	...	.....	.....	.....	8	6.21	157.7
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	29.95	760.7	43.3	6.3	87.2	2	1	13	10	2	.....	2	1	.....	.....	.....	9	.....	.....
Strathfield	N. 51 17	W. 0 53	0.04 p.m.	197	60	.....	.....	.....	.....	46.7	8.2	85.9	.....	7	10	8	3	1	1	.....	1	.....	.....	8	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m.	23	7	29.99	761.7	30.02	762 5	48.7	9.3	80.3	1	3	6	11	6	2	2	.....	.....	.....	.....	9	.....	.....
Sub-series.																										
Gozo	N. 36 01	E. 14 16	1.05 p.m.	364	111	29.82	757.4	30.21	767.3	55.1	12.8	65.5	3	10	6	3	.....	.....	6	3	.....	5089	8190	6	2.03	51.5
CANADIAN.																										
Bathurst	N. 47 39	W. 65 43	7.45 a m.	35	11	29.98e	761.5e	30.02e	762.5e	1.3	-17.1	.....	.....	2	.....	12	.....	2	.....	.....	15	.....	.....	6	1.39	35.3
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	29.99	761.7	30.04	763.0	9.3	-12.6	89.7	3	5	5	7	2	2	.....	4	3	6200	9978	5	2.38	60.5
Chatham*	N. 47 03	W. 65 29	7.45 a.m.	56	17	29.99	761.7	30.06	763.5	—1.0	-18.3	94.5	4	1	10	9	.....	.....	1	3	3	3410	5488	4	2.04	51.8
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	29.84	757.9	30.05	763.3	4.4	-15.3	93.6	.....	4	13	1	.....	.....	11	2	.....	.....	.....	6	3.54	89.9
Dalhousie	N. 48 04	W. 66 22	7.32 a m.	45	14	30.01e	762.2e	30 08e	764.0e	—2.0b	-18.9b	.....	b	.....	18	.....	.....	.....	3	.....	8	.....	.....	4a	1.80a	a45.7
Father Point*	N. 48 31	W. 68 28	7.34 a.m.	20	6	30.00	762.0	30.02	762.5	—0.8	-18.2	83.3	1	4	3	5	10	2	.....	6	.....	.....	.....	8	3.27	83.1
Fort Garry*	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.30	744.2	30.21	767.3	-13.1	-25.1	90.2a	11	7	2	2	8	1	.....	.....	.....	7584	12205	.....	0.53	13.5
Fredericton	N. 45 57	W. 66 38	7.41 a.m.	59	18	30.03	762.7	30.11	764.8	1.3	-17.1	89.5	1	4	8	4	.....	.....	2	2	10	.....	.....	5	3.06	77.7
Grand Manan	N. 44 46	W. 66 45	7.41 a.m.	49	15	30.03	762.7	30.09	764.3	18.6	—7.4	84.3	6	5	8	4	1	1	2	3	1	a:0650	a17149	8	4.95	125.7
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	29.94	760.5	30.15	765.8	10.9	-11.7	95.3	1	3	4	6	4	1	2	2	8	.....	.....	8	1.20	30.5
Halifax*	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.95	760.7	30.09	764 3	16.4	—8.7	90.6a	6	4	10	6	2	.....	1	.....	2	.....	.....	9	4.47	113.5
Hamilton	N. 43 16	W. 79 53	6.49 a.m.	372	113	29.64	752.8	30.08	764.0	13.4	-10.3	85.5	.....	1	2	20	.....	.....	.....	8	.....	.....	.....	8	5.10	129.5
Kingston*	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.72	754.9	30.08	764.0	10.7	-11.8	76.7	5	3	10	3	.....	2	3	3	2	7138	11487	7	5.48	139.2
Little GraceBay	N. 46 12	W. 59 58	8.08 a.m.	34	10	29.59b	761.7b	30.03b	762.7b	19.3b	—7.1b	89.2b	5	8	4	10	.....	.....	1	2	1	.....	.....	6	2.70	68.6
London	N. 43 00	W. 81 15	6.43 a.m.	832	254	29.16	740.7	30.15	765.8	11.8	-11.2	89.5	2	2	2	8	3	.....	3	1	10	.....	.....	7	4.73	120.1
Medicine Hat	N. 50 01	W. 110 37	4.40 a.m.	2136	651	27.72	704.1	30.22	767.6	11.6	-11.3	89.5a	3	4	4	8	9	.....	2	.....	1	.....	.....	6	0.10	2.5
Minnedosa*	N. 50 13	W. 99 48	5.29 a.m.	1796	545	28.06	712.7	30.26	768.6	11.6	-11.3	98.7e	2	15	5	3	2	.....	1	2	1	.....	.....	3	0.08	17.3
Montreal*	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.86	758.4	30.08	764.0	4.9	-15.1	89.1	4	3	9	5	3	1	3	3	.....	.....	.....	8	4.36	110.7
Ottawa	N. 45 26	W. 75 41	7.05 a.m.	200	61	29.84	757.9	30.09	764.3	—0.7	-18.2	86.5	2	8	11	4	1	.....	2	3	.....	.....	.....	7	4.24	107.7
Parry Sound*	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.31	744.5	30.06	763 5	3.9	-15.6	78.9	10	.....	5	2	7	2	5	.....	.....	8275	13317	7	4.04	102.6
Peterboro	N. 44 17	W. 78 18	6.54 a.m.	675	206	29.28	743.7	30.09	764.3	9.6	-12.4	75.5	1	4	6	11	.....	1	3	3	2	.....	.....	7	2.05	52.1
Port Arthur	N. 48 27	W. 89 12	6.11 a.m.	642	196	29.39	746.5	30.18	766.6	—3.5	-19.7	83.9	1	7	8	3	5	.....	.....	1	6	3739	6017	3	0.80	20.3
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.36	745.7	30.12	765.0	13.7	-11.2	97.6	4	1	8	9	3	.....	2	1	3	8740	14065	7	5.16	131.1
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.44	747.8	30.14	765.5	13.9	-10.1	87.3	3	2	13	5	.....	.....	5	2	1	.....	.....	8	1.67	42.4
Qu Appelle	N. 50 44	W. 103 42	5.13 a.m.	2115	646	27.72	704.1	30.28	769.1	—7.4	-21.9	.....	9	2	3	2	.....	.....	.....	2	13	.....	.....	3	0.05	1.3
Quebec*	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.67	753.6	30.02	762.5	1.7	-16.8	78.1	5	.....	2	8	1	.....	.....	1	14	.....	.....	8	5.65	143.5
Rockliffe*	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.59	751.6	30.09	764.3	—4.6	-20.3	86.3a	.....	5	4	1	.....	7	1	1	12	.....	.....	6	2.97	75.4
Saint Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	30.01	762.2	30.07	763.8	12.9	-10.6	91.2	5	8	7	3	1	1	1	2	3	.....	.....	4	3.54	89.9
Saint John, N.B	N. 45 17	W. 66 03	7.44 a.m.	130	40	29.93	760.2	30.09	764.3	12.1	-11.1	84.7	6	8	4	5	2	.....	.....	3	3	.....	.....	5	2.45	62.2
Saint Pierre b	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	29.90	759.5	24.3	—4.3	.....	3	12	4	6	1	2	1	.....	.....	.....	.....	.....	.....	.....
Saugeen*	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.29	744.0	30.05	763.3	13.2	-10.4	93.7	2	2	4	7	3	4	2	5	2	11816	19016	8	3.62	91.9
Stratford h	N. 43 23	W. 81 00	6.44 a.m.	1186	361	28.73	729.7	30.15	765.8	11.6	-11.3	84.9	.....	2	7	3	1	3	2	.....	5	.....	.....	7	2.67	67.8

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for January, 1884. Mean Barometer. Actual. Inch.	Actual. Mill.	Reduced. Inch.	Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
	° ′	° ′																								
CANADIAN.—Con.																										
Sydney*	N. 46 08	W. 60 10	8.07 a.m.	37	11	30.00	762.0	30.04	763.0	14.2	—9.9	90.9	6	2	5	8	4	2	1	.....	3	8491	13665	6	4.62	117.3
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.70	754.4	30.11	764.8	14.4	—9.8	87.2	5	2	11	6	1	.....	1	5	.....	9981a	16063a	9	3.30	83.8
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	28.99	736.3	30.16	766.1	11.2	—11.6	85.6	4	2	5	12	2	3	.....	2	1	.....	.....	8	4.95	125.7
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	29.98	761.5	30.05	763.3	22.0	—5.6	79.0	5	4	6	4	..	.....	7	5	.....	.....	.....	9	3.45	87.6
CAPE COLONY																										
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	29.96	761.0	29.99	761.7	72.8	22.7	89.8	1	.....	1	12	2	7	2	6	.....	.....	.....	4	1.52	38.6
Cape Town	S. 34 02	E. 18 29	1.22 p.m.	?	?	29.87	758.7	.....	.....	76.5	24.7	50.7	4	7	.....	1	5	7	2	3	.....	.....	.....	2	0.06	1.5
Springboka	S. 29 45	E. 17 43	1.19 p.m.	?	?	27.85	707.4	.....	.....	82.2	27.9	43.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.32	8.1
CHILIAN.																										
Coquimbo	S. 29 56	W. 71 21	7.22 a.m.	72	22	29.91	759.6	29.98	761.6	63.5	17.5	88.9	17	2	5	3	.....	.....	2	2	.....	.....	.....	9	.....	.....
Iquiqued	S. 20 12	W. 70 11	7.27 a.m.	26	8	29.91	759.7	29.93	760.3	71.4	21.9	76.0	.....	.....	.....	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Niebla	S. 39 53	W. 73 25	7.14 a.m.	98	30	29.56	750.7	29.66	753.4	61.7	16.5	77.5	2	1	3	.....	.....	.....	25	.....	.....	.....	.....	2	2.66	67.6
Punta Caldera	S. 27 03	W. 70 53	7.25 a.m.	82	25	29.86	758.5	29.95	760.7	68.0	20.0	78.5	.....	5	.....	15	.....	8	1	1	1	.....	.....	6	.....	.....
Punta Corona	S. 41 47	W. 73 53	7.12 a.m.	174	53	29.89	759.3	30.08	764.1	.....	.....	.....	3	3	8	1	.....	1	5	1	9	.....	.....	7	4.85	123.2
Valparaiso	S. 33 02	W. 71 39	7.22 a.m.	131	40	29.80	756.9	29.94	760.5	64.2	17.9	81.7	4	2	2	10	2	3	3	5	.....	.....	.....	5	.....	.....
CHINESE. (*Sub*).																										
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	22	7	30.34	770.7	30.37	771.3	39.4	4.1	80.3	10	5	2	.....	.....	4	8	1	1	.....	.....	6	3.69	93.7
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.77	756.2	29.82	757.4	38.7	3.7	86.3	.....	6	9	8	3	3	.....	2	.....	.....	.....	8	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.83	757.6	29.85	758.1	38.8	3.8	90.0	.....	5	8	12	1	3	1	1	.....	.....	.....	8	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.45	757.9	29.49	749.0	5.9	—14.5	93.5e	9	4	.....	1	1	4	.....	12	.....	.....	.....	8	.....	.....
Jacobshavn	N. 69 13	W. 50 55	8.44 a.m.	42	13	29.55	750.5	29.60	751.7	—14.8	—26.0	.....	1	.....	.....	.....	2	.....	2	1	25	.....	.....	3	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.29	744.0	29.34	745.1	28.4	—2.0	86.4	.....	1	1	11	.....	4	7	6	1	.....	.....	7	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.50	749.2	29.52	749.8	38.1	3.4	81.1	2	1	9	4	3	2	1	5	4	.....	.....	8	.....	.....
Upernavik	N. 72 47	W. 56 00	8.24 a.m.	39	12	29.58	751.3	29.63	752.5	—14.8	—26.0	.....	.....	.....	.....	3	.....	.....	18	.....	10	.....	.....	3	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.65	753.1	29.74	755.5	38.7	3.7	94.2	.....	2	9	14	1	4	1	.....	.....	.....	.....	8	.....	.....
Ivigtut	N. 61 12	W. 48 00	8.56 a.m.	16	5	29.39	746.5	29.41	747.0	11.5	—11.4	.....	.....	2	.....	.....	.....	5	.....	.....	24	.....	.....	7	.....	.....
Egyptian.																										
Cairo	N. 30 03	E. 31 21	2.14 p.m.	?	?	29.96	761.0	.....	.....	59.9	15.5	.....	2	6	7	6	3	.....	3	4	.....	.....	.....	5	0.30	7.6
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.77	756.2	30.44	773.2	45.3	7.4	90.7	4	6	4	1	4	9	1	.....	2	.....	.....	9	0.68	17.2
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.80	757.0	30.35	771.0	44.1	6.7	92.9	3	1	3	14	5	.....	1	4	.....	.....	.....	9	1.04	26.4
Arras	N. 50 18	E. 2 46	0.19 p.m.	223	68	.....	.....	30.17	766.2	43.9	6.6	86.5	.....	4	7	11	4	3	2	.....	.....	.....	.....	5	2.31	58.6
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	30.22	767.7	30.30	769.7	49.5	9.7	63.1	6	21	.....	.....	.....	1	3	.....	.....	.....	.....	3	0.26	6.6
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.73	755.2	30.31	769.8	43.0	6.1	83	.....	3	3	6	10	4	4	1	.....	.....	.....	8	1.21	30.7
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.84	758.0	30.12	765.1	45.0	7.2	79.8	2	4	4	12	2	3	3	1	.....	.....	.....	8	1.91	48.6
Besançon	N. 47 14	E. 6 02	0.32 p.m.	846	258	29.37	746.0	30.32	770.1	44.1	6.7	79.9	2	2	.....	8	11	.....	.....	8	.....	.....	.....	.....	1.63	41.4
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	30.09	764.2	30.39	772.0	46.9	8.3	82.4	4	1	7	1	2	9	2	5	.....	.....	.....	6	1.37	34.7
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.79	756.7	30.31	769.9	45.1	7.3	84	2	4	9	8	1	.....	5	2	.....	.....	.....	.....	1.51	38.3
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	30.03	762.8	30.28	769.0	50.5	10.3	87.9	2	1	5	11	4	1	2	2	3	.....	.....	7	6.74	171.2
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	30.13	765.3	30.21	767.4	47.5	8.6	98.2	3	3	8	7	5	.....	4	1	.....	.....	.....	6	3.04	77.3
Châlons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.95	760.6	30.28	769.0	43.7	6.5	84	.....	1	2	12	9	5	1	1	.....	.....	.....	7	1.41	35.8
Charleville *a*	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.71	754.7	30.22	767.5	41.0	5.0	79.7	3	.....	10	2	4	4	5	2	.....	.....	.....	.....	2.89	73.4
Clermont-Fer'and	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.94	735.0	30.34	770.6	44.4	6.9	73.3	5	7	8	1	7	2	.....	1	.....	.....	.....	3	0.94	23.9
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.17	748.6	30.34	770.7	43.9	6.6	78.4	3	2	9	7	5	2	.....	3	.....	.....	.....	7	0.91	23.2
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.39	746.6	30.40	772.2	41.5	5.3	86.5	.....	3	15	4	2	1	5	1	.....	.....	.....	.....	0.53	13.4
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.69	703.2	30.28	769.2	44.2	6.8	50.0	5	.....	4	.....	.....	1	4	2	15	.....	.....	2	1.20	30.5
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	29.11	739.4	30.26	768.6	50.5	10.3	59	12	12	1	.....	.....	3	2	1	.....	.....	.....	3	0.42	10.7
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.56	750.7	30.35	771.0	41.4	5.2	78.7	2	7	1	1	4	4	9	3	.....	.....	.....	.....	0.95	24.1
Guéret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.69	728.6	30.34	770.6	41.7	5.4	77.7	1	6	2	11	.....	5	.....	6	.....	.....	.....	.....	1.58	40.2
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.79	756.6	30.37	771.5	51.8	11.0	63.8	3	1	5	3	2	1	4	12	.....	.....	.....	.....	1.81	46.0
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	30.20	767.0	30.30	769.6	50.4	10.2	70.1	.....	3	4	9	3	7	2	2	1	.....	.....	6	1.45	36.9
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	29.26	743.2	30.35	771.0	42.4	5.8	77.5	8	4	2	.....	5	5	4	3	.....	.....	.....	.....	0.70	17.9
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	30.00	761.9	30.31	769.8	43.9	6.6	96.0	2	4	5	6	6	.....	1	6	1	.....	.....	.....	2.01	51.0
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.98	761.4	30.24	768.2	53.6	12.0	56.0	.....	9	9	5	.....	2	4	2	.....	.....	.....	4	0.24	6.0
Montlouis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	25.04	635.9	29.85	758.2	42.8	6.0	51	2	4	5	14	1	1	2	2	.....	.....	.....	3	0.98	24.9
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	30.15	765.8	30.26	768.6	52.0	11.1	77	10	7	7	1	.....	1	2	3	.....	.....	.....	3	4.61	117.0
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.47	748.6	30.28	769.2	41.9	5.5	86.3	.....	3	4	14	8	.....	.....	2	.....	.....	.....	.....	1.82	46.2
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	30.18	766.6	30.34	770.7	47.3	8.5	83.4	1	3	7	7	5	1	3	4	.....	.....	.....	9	1.58	40.1
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	30.21	767.4	30.33	770.3	53.2	11.8	58	2	14	1	1	5	2	2	1	3	.....	.....	4	0.08	2.0
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.36	542.6	.....	.....	27.0	—2.8	.....	1	4	10	1	.....	.....	2	8	5	.....	.....	4	5.54	140.8
Privas. [mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	29.23	742.4	30.33	770.4	45.7	7.6	75.5	13	3	3	1	11	.....	.....	.....	.....	.....	.....	.....	0.65	16.4
Puy de Dôme	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.31	642.8	.....	.....	32.7	0.4	81.1	8	3	4	6	3	.....	.....	7	.....	.....	.....	2	4.46	113.2
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	30.32	770.2	30.35	771.0	48.0	8.9	83.5	1	4	1	8	2	1	2	4	8	.....	.....	5	7.13	181.0
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	30.10	764.6	30.31	769.9	46.8	8.2	86.0	4	2	3	8	3	3	8	.....	.....	.....	.....	6	1.96	49.8
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	28.13	714.5	30.35	771.0	41.7	5.4	69.0	.....	18	4	.....	.....	3	2	.....	4	.....	.....	.....	1.09	27.6
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	30.19	766.9	30.27	768.9	46.4	8.0	87.5	6	4	4	6	2	6	3	.....	.....	.....	.....	6	2.37	60.3
St. Lôc	N. 49 06	W. 1 05	0.04 p.m.	134	41	.....	.....	30.27	768.8	49.1	9.5	80	3	3	12	3	4	1	1	1	.....	.....	.....	6	2.17	55.0
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	30.11	764.7	30.27	768.9	44.4	6.9	81.2	3	5	2	11	7	1	1	1	.....	.....	.....	7	0.82	20.9
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.50	749.2	30.22	767.6	46.4	8.0	81.9	.....	13	3	1	1	8	4	1	.....	.....	.....	7	1.14	28.9
Tours	N. 47 24	E. 0 41	0.11 p.m.	107	51	30.13	765.4	30.31	769.8	46.2	7.9	84.7	2	2	5	7	5	4	1	5	.....	.....	.....	.....	1.43	36.3
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.76	756.0	30.26	768.5	43.7	6.5	83.7	6	2	8	8	4	.....	1	1	1	.....	.....	.....	0.85	21.7
Sub-Series.																										
St. Martin du Hinx.	N. 43 35	W. 1 16	0.03 p.m.	131	40	30.23	767.8	30.38	771.6	51.1	10.6	74.2	2	4	4	4	5	2	6	4	.....	.....	.....	2	1.83	46.5
GERMAN.																										
Ansbach	N. 49 18	E. 10 36	0.50 p.m.	1358	414	28.74	729.9	30.25	768.4	37.9	3.3	79.8	.....	5	7	8	2	.....	1	.....	8	.....	.....	8	2.04	51.8
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.32	744.6	30.14	765.6	39.4	4.1	69.3	.....	3	16	2	.....	.....	1	1	8	.....	.....	7	1.80	45.7
Berlin	N. 52 30	E. 13 19	1.02 p.m.	131	40	29.86	758.4	30.01	762.3	39.7	4.3	82.4	1	0	13	5	4	1	1	.....	.....	.....	.....	8	2.12	53.8
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.52	749.8	30.05	763.3	38.1	3.4	77.3	1	4	11	6	5	3	1	.....	.....	.....	.....	8	1.37	34.8
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	413	126	29.78	756.4	30.26	768.6	41.7	5.4	79.0	.....	2	1	21	2	.....	1	2	2	.....	.....	8	3.00	76.2
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.37	746.0	30.08	764.1	39.9	4.4	81.8	.....	7	2	2	20	.....	.....	.....	.....	.....	.....	8	0.45	11.4
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.82	757.5	30.20	767.1	41.2	5.1	81.3	1	3	3	12	8	1	2	1	.....	.....	.....	9	1.88	47.8
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1339	408	28.83	732.3	30.31	769.9	38.3	3.5	81.3	1	1	9	14	3	1	.....	2	.....	.....	.....	7	2.49	63.3
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.89	759.2	29.98	761.5	39.7	4.3	86.2	.....	6	8	13	.....	2	2	.....	.....	.....	.....	8	3.48	88.5
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	29.88	759.0	29.90	759.5	40.3	4.6	84.2	1	3	6	16	1	1	1	.....	2	.....	.....	8	4.46	113.3
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.66	753.3	30.09	764.3	40.5	4.7	80.6	.....	8	6	9	6	.....	2	.....	.....	.....	.....	8	1.51	38.4
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.84	757.9	30.03	762.8	41.2	5.1	78.4	.....	2	12	9	3	3	.....	1	1	.....	.....	8	1.59	40.4
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	29.77	750.1	29.82	757.3	34.2	1.2	84.7	5	9	5	5	5	1	.....	1	.....	.....	.....	9	.....	.....
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.37	720.7	30.25	768.3	39.0	3.9	71.6	1	10	10	1	.....	.....	.....	1	8	.....	.....	6	1.51	38.4
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	29.85	758.1	29.86	758.5	36.5	2.5	82.3	1	7	7	8	6	1	.....	...	1	.....	.....	7	1.10	27.8
Neustadt	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.67	753.5	30.19	766.9	43.0	6.1	74.0	.....	3	13	10	3	.....	.....	.....	2	.....	.....	8	2.67	67.9
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.27	743.4	30.18	766.5	41.9	5.5	72.3	2	3	10	10	3	1	2	.....	.....	.....	.....	8	1.13	28.7
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	29.85	758.5	29.88	759.0	38.3	3.5	87.4	3	3	5	12	4	3	1	.....	.....	.....	.....	8	1.52	38.5
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	361	110	29.74	755.5	30.14	765.5	49.1	9.5	.....	22	1	1	2	3	.....	.....	2	.....	.....	.....	5	2.41	61.1
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	30.00	762.0	30.05	763.4	71.8	22.1	59	1	2	6	16	1	1	1	3	.....	.....	.....	2	0.03	0.8
Deesa	N. 24 16	E. 72 14	4.57 p.m.	466	142	29.54	750.3	30.02	762.5	77.7	25.4	25	6	7	6	6	1	1	.....	4	.....	.....	.....	2	0	0
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.96	761.0	30.00	762.0	76.5	24.7	66	6	21	4	.....	.....	.....	.....	.....	.....	.....	.....	1	0.03	0.8
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	28.12	714.2	30.98	761.6	78.4	25.8	29	.....	6	5	1	1	1	10	7	.....	.....	.....	1	0.20	5.1
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.42	696.5	29.97	761.2	76.2	24.6	31	.....	.....	1	5	1	2	9	9	4	.....	.....	1	0.19	4.8
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	29.29	744.0	30.07	763.7	62.8	17.1	59	1	3	1	.....	.....	.....	3	3	20	.....	.....	4	0.31	7.9
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	29.11	739.4	30.04	763.1	65.7	18.7	48	.....	1	10	.....	.....	.....	.....	.....	20	.....	.....	2	0	0
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	29.47	748.5	30.06	763.4	70.3	21.3	44	.....	6	9	.....	.....	2	5	2	7	.....	.....	1	0.16	4.1

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
INDIAN—Cont'd.	° ′	° ′																								
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.96	735.6	30.02	762.5	74.4	23.6	39	.....	1	.....	.....	4	2	1	1	22	.....	.....	1	1.25	31.8
Jubbulpore	N. 23 09	E. 79 59	5.28 p.m.	1341	409	28.66	728.1	30.06	763.5	69.0	20.6	48	1	.....	2	.....	.....	.....	.....	.....	28	.....	.....	2	0.76	19.3
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	113	29.67	753.7	30.07	763.7	67.4	19.7	48	....	2	1	4	.....	1	.....	2	21	.....	.....	1	0	0
Allahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.72	755.0	30.05	763.2	66.0	18.9	63	.....	.....	.....	.....	.....	.....	.....	4	27	.....	.....	1	0	0
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.86	758.4	30.05	763.3	67.5	19.7	55	.....	6	9	3	.....	3	1	4	5	.....	.....	1	0	0
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.98	710.6	30.06	763.5	65.1	18.4	41	8	13	2	1	.....	1	1	1	4	.....	.....	2	0	0
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.95	760.8	30.04	763.0	73.0	22.8	60	5	5	.....	...	.....	2	8	.....	11	.....	.....	2	0.05	1.5
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	6	30.01	762.2	30.03	762.8	67.4	19.7	66	3	4	2	3	2	.....	.....	1	16	.....	.....	[illegible]	0.02	0.5
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	115	35	29.92	759.0	30.04	763.0	66.6	19.2	65	3	.....	.....	1	.....	1	3	4	19	.....	.....	1	0.24	6.1
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.95	760.8	30.05	763.2	67.6	19.8	73	.....	3	9	3	.....	.....	.....	1	15	.....	.....	2	0	0
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.72	754.9	30.07	763.9	59.3	15.2	83	1	.....	.....	1	..	.....	.....	27	2	.....	.....	3	0.59	15.0
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.58	725.9	30.06	763.6	69.1	20.6	42	.....	12	6	2	1	4	2	1	3	.....	.....	3	0.07	1.8
Zanzibar	S. 6 10	E. 39 11	2 45 p.m.	23	7	29.84	758.0	29.87	758.6	84.1	28.9	62	2	.....	.....	1	.....	1	5	20	2	.....	.....	1	1.35	34.3
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.48	723.4	.....	.....	79.6	26.4	34.5	1	1	1	.....	.....	4	20	4	.....	.....	.....	2	0	0
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.72	754.9	.....	.....	81.6	27.6	53 7	3	.....	1	.....	.....	.....	3	22	2	.....	.....	5	1.03	26.2
ITALIAN.																										
Udine	N. 46 04	E. 13 13	1.01 p.m.	381	116	29.81	757.2	30.24	768 0	44.2	6.8	49	3	..	.....	.....	...	1	1	6	20	.....	.....	4	0.41	10.5
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.73	755.1	30.27	768 8	40.8	4.9	66	1	9	6	6	1	5	1	2	.....	.....	.....	4	0.08	1.9
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	30.12	765.1	30.24	768.0	40.3	4.6	64	8	6	1	1	1	1	1	4	8	.....	.....	3	0.10	2.5
Moncalieri	N. 45 00	E. 7 41	0.39 p.m.	846	258	29.33	745.0	30.28	769.1	40.8	4.9	68	12	3	.....	.....	4	3	6	3	.....	.....	.....	3	0	0
Genoa	N. 44 24	E. 8 55	0.44 p.m.	157	48	30.02	762.5	30.22	767.5	51.8	11.0	55	5	1	.....	1	1	10	2	4	7	.....	.....	4	0.76	19.3
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	30.19	766.7	30.24	768.0	43.7	6.5	72	15	8	4	2	.....	.....	.....	2	.....	.....	.....	5	2.69	68.3
Florence	N. 43 46	E. 11 15	0.53 p.m.	240	73	29.94	760.5	30.21	767.2	44.4	6.9	68	.....	.....	1	2	2	1	6	19	.....	.....	.....	4	2.21	56.2
Leghorn	N. 43 33	E. 10 18	0.49 p.m.	79	24	30.08	763 9	30.16	766.1	51.4	10.8	67	.....	.....	5	3	2	1	2	18	.....	.....	.....	5	1.34	33.9
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	30.01	762.3	30.19	766.9	51.6	10.9	53	21	1	.....	1	4	.....	.....	4	.....	.....	.....	4	2.25	57.2
Lecce	N. 40 22	E. 18 12	1.21 p.m.	236	72	29.89	759 3	30.15	765.9	52.0	11.1	60	11	5	1	2	2	2	.....	8	.....	.....	.....	4	0.68	17.2
Cosenza	N. 39 19	E. 16 17	1.13 p.m.	840	256	29.28	743.7	30.21	767.2	46.2	7.9	72	.....	5	11	1	6	7	1	.....	.....	.....	.....	5	2.30	58.4
Cagliari	N. 39 30	E. 9 00	0.45 p.m.	180	55	30.01	762.3	30.21	767.3	55 0	12.8	60	1	19	1	3	.....	2	1	1	3	.....	.....	4	0.79	20.0
Palermo	N. 38 07	E. 13 21	1.02 p.m.	236	72	29.95	760.7	30.21	767.2	55.4	13.1	63	8	3	5	4	...	.....	1	8	2	.....	.....	6	1.34	34.0
Syracuse	N. 37 03	E. 15 15	1.09 p.m.	72	22	30.11	764.8	30.15	765.9	55.0	12.8	62	9	4	5	.....	2	3	3	5	.....	.....	.....	6	2.86	72.7
Sub-Series.																										
Naples	N. 40 52	E. 14 15	1.05 p.m.	489	149	29.67	753.5	30.21	767.3	51.1	10.6	63.1	4	5	3	6	3	2	2	6	.....	.....	.....	4	2.99	76.0
JAPANESE.																										
Akita	N. 39 42	E. 140 07	9.28 p.m.	32	10	30.03	762 8	30.06	763.7	28.2	−2.1	85	3	8	2	.....	.....	3	6	2	7	.....	.....	9	6.61	167.8
Awomori	N. 40 51	E. 140 45	9.31 p.m.	32	10	29.97	761.3	30.01	762.2	25.4	−3.7	78.9	.....	3	11	6	8	.....	.....	.....	3	6387c	10279c	7	3.51	89.1
Hakodate	N. 41 47	E. 140 44	9.31 p.m.	10	3	29.98	761.5	29.99	761.8	25.6	−3.6	81.4	6	7	13	.....	.....	.....	.....	.....	5	9315	14991	5	2.28	57.9
Hamamatsu	N. 34 43	E. 137 43	9.19 p.m.	92	28	30.00	762.1	30.10	764.6	37.4	3.0	78	1	2	18	.....	.....	.....	.....	1	9	.....	.....	2	2.37	60.3
Hiroshima	N. 34 23	E. 132 27	8.58 p m.	14	4	30.20	767.2	30.22	767.6	36.0	2.6	82	15	1	2	1	1	2	1	8	.....	3374	5430	5	1.69	43.0
Kagoshima	N. 31 35	E. 130 33	8.50 p.m.	14	4	30.24	768.1	30.25	768.4	43.0	6.1	80.4	14	5	.....	1	.....	.....	.....	3	8	.....	.....	5	1.94	49.1
Kanazawa	N. 36 33	E. 136 40	9.14 p.m.	95	29	30.04	763.1	30.15	765.8	33.8	1.0	85.5	1	3	2	1	6	7	9	2	.....	5182	8338	8	12.83	325.6
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.99	761.9	30.17	766.3	33.7	0.9	86.4	14	4	6	2	2	.....	.....	.....	3	2308	3714	5	3.01	76.3
Kochi	N. 33 33	E. 133 34	9.02 p.m.	20	6	30.17	766.4	30.20	766 9	40.1	4.5	77.4	3	4	19	.....	1	1	1	2	.....	5151	8200	4	1.64	41.7
Miasaka	N. 31 56	E. 131 26	8.54 p.m.	26	8	30.21	767.3	30.24	768.0	41.6	5.3	70	8	2	21	...	.....	.....	.....	.....	.....	.....	.....	3	1.20	30.5
Miyako	N. 39 38	E. 141 59	9.36 p.m.	98	30	29.90	759.4	30.01	762.2	29.2	−1.6	65	2	1	22	5	1	.....	.....	.....	.....	2641	4232	3	0.94	24.0
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	30.05	763 2	30.26	768.6	41.2	5.1	79.5	2	5	1	.....	1	.....	1	4	17	3207	5160	6	3.49	88.4
Nemuro	N. 43 20	E. 145 35	9.50 p.m.	43	13	29.86	758.3	29.91	759 6	23.7	−4.6	69 0	.....	8	5	3	.....	.....	.....	1	14	7398	11901	4	0.46	11.7
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	30.05	763.0	30.10	764.5	45.0	7.2	83.4	6	4	5	6	2	7	1	.....	.....	6013	9677	9	7.95	201.9
Nobiru	N. 38 23	E. 141 11	9.32 p.m	15	5	30.02	762.6	30.04	763.0	30.1	−1.1	85.6	14	10	1	.....	1	.....	.....	.....	5	8037	12934	4	0.63	15.4
Numadzu	N. 35 06	E. 138 51	9.23 p.m.	32	10	30.02	762.5	30.05	763.4	38.9	3.8	71	4	.....	2	2	1	1	13	7	1	.....	.....	4	3.20	81.3
Osaka	N. 34 42	E. 135 30	9.10 p.m.	13	4	30.16	766.2	30.18	766.6	35.5	1.9	79.8	4	3	7	1	2	.....	6	8	.....	6841	11010	4	2.03	51.2
Sakai	N. 35 01	E. 133 13	9.01 p.m.	10	3	30.17	766.4	30.18	766.6	37.9	3.3	79	2	2	14	5	1	1	2	3	1	.....	.....	8	5.88	149.3
Sappor	N. 43 01	E. 141 23	9.33 p.m.	60	18	29.9	759.5	29.97	761.3	20.2	−6.6	78.3	.....	7	5	6	6	2	1	.....	4	4941	7955	6	2.56	64.9
Shimonoseki	N. 33 58	E. 130 56	8.52 p.m.	134	41	30.08	764.1	30.23	767.8	40.9	4.9	75	4	1	4	6	2	.....	7	5	2	.....	.....	7	2.02	66.5
Tokei	N. 35 41	E. 139 46	9.27 p.m.	69	21	29.99	761.7	30.07	763.8	35.6	2.0	69.0	19	.....	1	.....	5	1	4	1	.....	8937	5553	3	1.25	31.6
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	30.13	765.2	30.18	766.6	38.6	3.7	73.4	4	8	2	.....	2	.....	...	7	8	4162	6698	4	1.26	32.2
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.70	754.4	29.88	759.0	80.9	27.2	68.4	1	.....	1	2	...	10	13	4	.....	.....	.....	7	5.68	144.3
MEXICAN.																										
Leon	N. 21 07	W. 101 35	5.22 a.m.	5901	1799	24 37	619.0	30.25	768.3	44.1	6.7	81.9	6	14	1	.....	1	1	.....	.....	8	.....	.....	3	0.27	6.9
Mazatlan	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.82	757.5	30.09	764.2	66.1	18.9	74.1	9	9	2	.....	1	.....	6	4	.....	.....	.....	2	3.88	98.5
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	30.13	765.3	30.13	765.3	44.8	7.1	.....	.....	3	7	14	5	2	.....	.....	.....	.....	.....	.....	1.68	42.6
Groningen, a	N. 53 12	E. 6 34	0.34 p.m.	?	?	30.02	762.6	30.08	764.1	40.3	4.6	.....	1	6	2	14	4	1	2	.....	.....	.....	.....	.....	2.51	63.8
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	30.01	762.3	30.01	762.3	42.1	5.6	.....	.....	2	9	12	2	5	1	.....	.....	.....	.....	.....	2.86	72.6
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	30.10	764.5	30.10	764.5	47.7	8.7	88.2	.....	1	11	14	1	1	1	1	1	.....	.....	.....	1.60	40.7
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	30.05	763.3	30.10	764.0	43.7	6.5	87.2	.....	1	8	13	5	1	3	.....	.....	.....	.....	8	3.38	85.9
Sub-Series.																										
Batavia	S. 6 11	E. 106 48	7.15 p.m.	?	?	29.88	759.0	.....	.....	77.7	25.4	87.8	9	11	7	2	1	.....	...	1	.....	.....	.....	8	8.15	207.0
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.51	749.6	29.58	751.2	38.7	3.7	83.0	2	5	2	3	10	9	.....	.....	.....	.....	.....	9	10.00	253.9
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.31	744.4	29.35	745.4	33.1	0.6	79.8	4	5	3	5	6	4	1	2	1	.....	.....	8	5.94	150.8
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.43	747.5	29.58	751.4	28.9	−1.7	85.0	1	2	3	2	3	3	9	4	4	.....	.....	7	1.29	32.7
Gjesvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.20	741.6	29.22	742.2	23.5	−4.7	.....	2	2	2	5	4	6	2	4	4	.....	.....	7	2.48	62.9
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.22	742.3	29.27	743.5	28.9	−1.7	74.5	1	5	5	3	6	4	.....	4	3	.....	.....	8	6.28	159.4
PORTUGUESE.																										
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.21	767.4	30.30	769.6	63.3	17.4	70.2	4	.....	1	4	.....	7	9	4	2	.....	.....	8	4.94	125.5
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	312	95	30.03	762.7	30.37	771.5	53.1	11.7	75.2	7	1	1	3	5	.....	1	13	.....	.....	.....	5	2.64	67.0
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.15	765.7	30.22	767.5	61.9	16.6	77.5	1	3	5	2	2	7	1	3	7	.....	.....	3	6.78	172.3
Saint Vincent *a*	N. 16 37	W. 25 02	10.28 a.m.	34	10	30.04	763.1	30.08	764.0	70.3	21.3	75.5	3	.....	.....	.....	.....	7	14	6	.....	.....	.....	4	0.16	4.1
San Salvador	S. 6 17	E. 14 53	1.07 p.m.	1834	559	28.07	713.0	29.89	759.2	81.7	27.6	65.2	3	7	9	6	1	1	1	1	2	.....	.....	8	4.53	115.0
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.52	648.2	30.34	770.6	44.4	0.9	60.0	.....	2	5	1	7	5	7	1	3	.....	.....	4	27.00	687.2
RUSSIAN																										
Akmolinski	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.91	734.2	30.10	764.4	5.5	−14.7	88.9	.....	.....	6	11	5	5	3	1	.....	.....	.....	6	0.35	9.0
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.48	748.7	29.50	749.2	8.1	−13.3	90.0	....	2	2	4	7	7	9	.....	.....	.....	.....	8	0.95	24.1
Ashurada	N. 36 54	E. 53 55	3.44 p m.	79	24	30.19	766.9	30.10	764.5	49.8	9.9	78.7	7	6	1	2	...	1	8	6	.....	.....	.....	6	2.03	51.6
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	68	21	30.18	766 6	30.10	764.6	25.7	−3.5	81.2	1	4	8	5	2	7	2	.....	2	.....	.....	8	0.51	12.9
Baku	N. 40 21	E. 49 51	3.28 p.m.	39	12	30.14	765.5	30.09	764 3	42.1	5.6	72.4	9	2	1	5	6	.....	...	1	7	.....	.....	5	0.59	15.0
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.72	751.8	30.27	768.8	6.6	−14.1	83.8	.....	1	1	20	1	.....	.....	4	4	.....	.....	6	2.08	52.7
Bielosersk	N. 60 02	E. 37 47	2.39 p.m.	430?	131?	29.17	740.9	29.67	753.6	13.1	−10.5	87.1	2	3	3	5	7	5	.....	2	4	.....	.....	8	0.95	24.2
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.39	746.5	29.65	753 0	27.5	−2.5	87.6	1	5	9	6	6	.....	1	1	2	.....	.....	9	1.95	50.3
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.86	733.0	29.90	759.5	8.8	−12.9	83.4	2	1	7	8	2	5	.....	1	5	.....	.....	8	0.10	2.5
Elissawetgrad	N. 48 31	E. 32 17	2.17 p.m.	417?	127?	29.56	750.7	30.04	762.9	26.6	−3.0	84.2	3	7	7	7	3	.....	.....	.....	4	.....	.....	8	0.09	2.3
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.55	750.0	29.84	758.0	12.0	−11.1	91.9	.....	2	1	5	9	5	3	2	4	.....	.....	8	0.13	3.4
Kem	N. 64 57	E. 34 39	2.26 p.m.	43	13	29.46	748.4	29.52	749.7	13.5	−10.3	84.9	1	3	7	4	3	6	1	.....	6	.....	.....	8	0.68	17.2
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	30.02	762.6	30.05	763.2	32.0	0.0	85.0*g*	....	5	3	1	.....	.....	.....	2	20	.....	.....	8	1.18	30.1
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.24	742.7	29.91	759.7	28.0	−2.2	83.4	2	8	10	7	3	.....	.....	.....	1	.....	.....	8	0.50	12.6
Kos ov	N. 52 53	E. 40 31	2.50 p.m.	466?	142?	29.29	743.9	29.83	757 6	18.0	−7.8	83.0	4	5	4	7	8	.....	1	2	.....	.....	.....	8	2.34	59.4
Lgov	N. 51 41	E. 35 17	2 29 p m.	535?	163?	29.28	743.8	29 91	759.6	22.8	−5.1	87.5	1	2	8	12	2	1	1	1	3	.....	.....	9	0.57	14.4
Libau	N. 56 31	E. 21 01	1.32 p.m.	20	6	29.72	754.9	29.74	755.4	34.7	1.5	83.6	4	4	8	6	5	2	1	1	.....	.....	.....	8	2.25	57.2
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.7[illegible]	755.8	29.97	761.3	24.8	−4.0	70.1	1	1	7	14	4	2	2	.....	.....	.....	.....	8	0.49	12.5
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.23	742.5	29.75	755.6	17.2	−8.2	82.1	5	3	2	5	9	1	.....	2	4	.....	.....	7	1.15	29.2
Nert hinsk	N. 51 19	E. 119 37	8.07 p.m.	?	?	27.92	709.1	30.57	776.4	−15.5	−26.4	81.6	.....	5	1	2	.....	.....	.....	.....	23	.....	.....	2	0	0
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	30.00	761 9	30.07	763 7	28.0	−2.2	84.3	4	3	2	7	7	.....	.....	1	7	.....	.....	7	0.39	9.9
Nikolaievsk *a*	N. 53 08	E. 140 45	9.31 p.m.	59	18	29.99	761.8	30.08	764.0	−11.0	−23.9	77.7	.....	3	14	.....	.....	.....	.....	1	12	.....	.....	3	.....	.....

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Wind. Total Movement. Miles	Wind. Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
RUSSIAN —Cont'd	° ′	° ′																								
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	30.44	768.0	30.38	771.6	26.2	—3.2	59.7	.....	6	.....	1	1	2	.....	1	20	.....	.....	3	0.04	1.0
Petro-Alexandrovsk	N. 41 28	E. 61 05	4.12 p.m.	328	100	29.82	757.4	30.19	766.9	33.1	0.6	74.9	1	1	3	3	1	2	4	7	9	.....	.....	8	.....	.....
Petrozavodsk	N. 61 47	E. 34 23	2.26 p.m.	180?	55?	29.36	745.8	29.57	751.1	14.7	—9.6	81.4	1	6	2	5	7	5	....	1	4	.....	.....	7	2.89	73.4
Pinsk	N. 52 07	E. 26 06	1.52 p.m.	459?	140?	29.41	747.0	29.93	760.2	30.0	—1.1	83.1	2	7	12	4	4	.....	.....	.....	2	.....	.....	8	1.17	29.7
Poti	N. 42 09	E. 41 37	2.54 p.m.	466?	142?	30.06	763.4	30.09	764.2	45.3	7.4	79.7	1	5	1	3	2	2	15	1	1	.....	.....	7	5.13	130.2
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	20	6	29.58	751.4	29.61	752.0	21.2	—6.0	84.7	2	5	6	4	6	5	2	1	.....	.....	.....	9	1.30	32.9
Samarkand	N. 39 39	E. 66 57	4.36 p.m.	2379?	725?	27.64	702.1	30.19	766.7	41.0	5.0	73.7	.....	1	2	2	1	2	2	.....	21	.....	.....	7	.....	.....
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.62	752.2	30.35	770.8	6.8	-14.0	84.5	.....	.....	6	4	2	4	4	.....	11	.....	.....	6	0.41	10.5
Sevastopol	N. 44 37	E. 33 31	2.22 p.m.	138?	42?	29.86	758.3	30.08	761.9	37.0	2.8	74.1	5	.....	4	5	3	1	.....	12	1	.....	.....	7	1.99	50.6
Staroi Bykhov	N. 53 31	E. 30 16	2.09 p.m.	423?	129?	29.24	742.6	29.82	757.4	25.3	—3.7	83.8	2	5	4	3	4	9	1	2	1	.....	.....	8	1.61	40.9
Tashkend	N. 41 20	E. 69 18	4.45 p.m.	1607?	490?	28.45	722.7	30.20	767.0	36.3	2.4	74.1	4	6	1	2	1	.....	.....	1	16	.....	.....	7	.....	.....
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1313	409	28.67	728.2	30.15	765.7	37.4	3.0	63.8	9	8	.....	.....	2	4	.....	.....	8	.....	.....	6	0.78	19.7
Vernoe	N. 43 16	E. 76 53	5.16 p.m.	2401?	732?	27.50	699.9	30.23	767.8	21.4	—5.9	75.5	.....	1	.....	4	1	.....	.....	3	22	.....	.....	6	.....	.....
Viatka	N. 58 36	E. 49 41	3.27 p.m.	581?	177?	29.09	738.8	29.77	756.2	8.4	-13.1	94.1	.....	2	4	3	14	2	1	....	5	.....	.....	9	0.59	15.1
Vladivostock *a*	N. 43 09	E. 132 00	8.56 p.m.	59?	18?	30.17	766.2	30.23	767.9	8.1	-13.3	67.5	18	3	1	.....	.....	1	1	5	1	.....	.....	2	0.01	0.4
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.53	750.1	29.97	761.3	34.2	1.2	82.8	2	4	12	6	4	.....	.....	.....	3	.....	.....	8	1.69	42.9
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	29.97	761.2	30.29	769.4	0.3	-17.6	82.5	.....	1	10	3	4	2	1	2	8	.....	.....	4	.....	.....
Sub-Series.																										
Petrowsky Ac'y	N. 55 50	E. 37 38	2.39 p.m.	508	155	29.12	739.6	29.69	754.1	16.4	—8.7	79.8	2	3	9	2	7	4	.....	1	3	.....	.....	8	0.86	21.8
SPANISH.																										
Barcelona	N. 41 23	E. 2 15	0.16 p.m.	98	30	30.17	766.2	30.28	769.1	55.8	13.2	69	1	3	7	8	1	1	3	7	.....	.....	.....	4	0.57	14.4
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	30.32	770.2	30.38	771.7	54.0	12.2	75	.....	4	.....	4	2	15	1	.....	5	2522	4059	7	2.85	72.4
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.36	695.0	30.43	772.9	45.0	7.2	68	4	.....	1	6	7	2	.....	11	.....	4472	7197	4	0.56	14.3
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	28.11	714.1	30.41	772.4	49.1	9.5	68.0	5	.....	2	4	3	4	3	10	.....	5178	8333	7	0.69	17.5
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	30.20	767.1	30.35	770.9	57.7	14.3	75	.....	3	7	15	3	1	1	1	.....	3146	5063	4	0.63	16.0
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.36	745.8	30.28	769.0	52.7	11.5	74	5	1	1	2	5	6	1	7	3	6958	11198	5	3.74	94.9
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	30.10	764.4	30.16	766.1	66.7	19.3	83.9	9	....	.....	.....	1	7	12	1	1	.....	.....	3	3.21	81.5
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	30.01	762.3	30.07	763.8	74.0	23.3	77.5	1	1	.....	.....	.....	6	12	11	.....	2774	5137	2	0.02	0.5
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	30.28	769.0	30.38	771.6	59.0	15.0	70.7	2	3	4	.....	.....	6	12	3	1	.....	.....	3	1.06	27.1
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	30.02	762.5	30.11	764.8	74.3	23.5	85.0	2	.....	.....	1	3	5	5	2	13	.....	.....	3	3.49	88.6
SWEDISH.																										
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.42	747.3	29.46	748.3	15.4	—9.2	91	4	1	4	3	6	4	2	....	7	.....	.....	6	3.15	79.9
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.45	748.0	29.50	749.3	21.7	—5.7	87	4	6	2	8	1	1	.....	2	7	.....	.....	6	2.32	59.0
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.44	747.7	29.49	749.0	26.6	—3.0	84	2	1	3	1	4	1	1	1	17	.....	.....	5	1.04	26.3
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.43	747.5	29.61	752.0	31.3	—0.4	81	3	5	9	10	3	....	.....	1	....	.....	.....	6	0.79	20.1
Wisby	N. 57 39	E. 18 19	1.21 p.m.	52	16	29.61	752.1	29.67	753.6	35.8	2.1	84	3	3	9	11	2	....	.....	3	.....	.....	.....	7	1.49	37.8
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.48	748.9	29.57	751.1	29.1	—1.6	85.9	.....	7	5	9	9	.....	.....	1	.....	.....	.....	7	1.39	35.2
TURKISH.																										
Constantinople	N. 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	30.13	765.4	42.8	6.0	74.0	13	4	.....	8	2	.....	1	3	.....	.....	.....	7	6.23	158.3
Valona	N. 40 27	E. 19 27	1.26 p.m.	105	32	.....	.....	30.16	766.0	53.6	12.0	.....	.....	15	.....	1	2	4	.....	9	.....	.....	.....	4	2.60	66.0
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	30.04	763.1	57.9	14.4	65.8	3	3	.....	15	1	2	1	6	.....	.....	.....	7	10.64	270.3
UNITED STATES.																										
Albany	N. 42 39	W. 73 45	7.13 a.m.	75	23	30.07	763.8	30.16	766.1	19.8	—6.8	64.2	6	3	3	3	8	.....	2	6	.....	4610	7419	8	2.98	75.7
Alpena	N. 45 05	W. 83 30	6.34 a.m.	609	185	29.37	746.0	30.08	764.0	10.0	-12.2	75.3	3	3	9	8	4	2	.....	1	1	7474	12028	8	3.07	78.0
Apache, Fort	N. 33 48	W. 109 57	4.48 a.m.	5050	1539	25.07	636.8	30.19	766.8	25.2	—3.8	77.2	2	.....	.....	3	1	8	9	8	.....	4053	6522	4	0.68	17.3
Assinaboine, Ft.	N. 48 32	W. 109 42	4.49 a.m.	2710	826	27.23	691.6	30.27	768.8	9.9	-12.3	76.0	2	8	1	12	.. ..	.....	4	3	1	8838	14215	4	0.16	4.1
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1129	344	29.03	737.3	30.26	768.6	30.9	—0.6	81.2	2	13	5	1	3	4	3	.....	.....	8745	14073	5	5.20	132.1
Atlantic City	N. 39 22	W. 74 25	7.10 a.m.	13	4	30.11	764.8	30.12	765.0	26.9	—2.8	76.8	7	5	3	5	3	....	5	3	.....	7362	11848	7	7.17	182.1
Augusta	N. 33 28	W. 81 54	6.40 a.m.	183	56	30.08	764.0	30.28	769.1	37.4	3.0	79.5	3	.....	10	.....	3	2	.....	6	7	2893	4656	6	4.34	110.2
Baltimore	N. 39 18	W. 76 37	7.02 a.m.	45	14	30.15	765.8	30.20	767.1	28.9	—1.7	67.0	6	5	8	1	1	2	1	6	1	4609	7417	6	4.81	122.2
Barnegat City	N. 39 46	W. 74 06	7.12 a.m.	22	7	30.14	765.5	30.16	766.1	26.6	—3.0	79.4	8	2	6	5	2	2	3	3	.....	13173	21199	6	5.25	133.3
Bennett, Fort	N. 44 43	W. 100 39	5.26 a.m.	1510	457	28.58	725.9	30.32	770.1	5.0	-15.0	76 0	2	7	.....	.....	.....	5	.....	3	14	4526	7234	4	0.31	7.9
Benton, Fort	N. 47 50	W. 110 40	4.45 a.m.	2700	823	27.31	693.7	30.29	769.4	12.5	-10.8	62.0	1	.....	1	9	.....	....	.....	2	18	4455	7170	7	0.56	14.2
Bismarck	N. 46 47	W. 100 38	5.20 a.m.	1694	516	28.29	718.0	30.29	769.4	0.3	-17.6	89.6	3	13	2	.....	2	...	5	2	4	5441	8756	5	0.38	9.7
Block Id	N. 41 10	W. 71 36	7.22 a.m.	27	8	30.10	764.5	30.13	765.3	27.5	—2.5	81.5	9	4	4	4	1	2	4	3	.....	14115	22715	5	6.43	163.3
Boise City	N. 43 37	W. 116 08	4.24 a.m.	2750	838	27.39	695.7	30.32	770.1	17.0	—8.3	88.7	3	3	16	2	.....	5	2	.....	.....	2432	3914	3	1.75	44.4
Boston	N. 42 21	W. 71 04	7.24 a.m.	142	43	29.95	760.7	30.12	765.0	20.2	—5.6	73.5	1	14	7	7	.....	1	1	..	.....	8674	13959	6	6.27	159.3
Brownsville	N. 25 53	W. 97 26	5.38 a.m	57	17	30.18	766.0	30.24	768.1	47.4	8.6	80.8	12	2	1	.....	5	1	7	1	2	6983	11238	4	1.10	27.9
Buffalo	N. 42 53	W. 78 53	6.52 a.m.	690	210	29.34	745.2	30.13	765.3	16.7	—8.5	87.1	3	2	6	12	4	1	2	1	.....	12259	19729	9	3.36	85.3
Buford, Fort	N. 48 00	W. 103 56	5.12 a.m.	1930	588	28.05	712.5	30.28	769.1	2.1	-16.6	91.7	5	3	8	5	3	1	3	2	1	6989	11248	5	0.11	2.8
Cairo	N. 37 00	W. 89 10	6.11 a.m.	377	115	29.89	759.2	30.31	769.9	24.0	—4.4	81.1	7	2	3	6	4	... ..	1	5	3	7119	11457	6	2.32	58.9
Canby, Fort	N. 46 16	W. 124 04	3.52 a.m.	179	54	29.89	759.2	30.09	764.3	41.6	5.3	82.6	5	...	1	.....	3	12	8	2	.....	11562	16998	5	6.45	163.8
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.16	766.1	30.18	766.6	33.6	0.9	82.9	6	6	1	7	7	1	1	2	.....	11509	16912	8	8.43	214.1
Cape May	N. 38 56	W. 74 58	7.08 a.m.	27	8	30.14	765.5	30.17	766.3	30.1	—1.1	80.1	4	7	3	6	3	2	3	3	.....	14311	23308	6	5.56	141.2
Cape Mendocino	N. 40 26	W. 124 24	3.50 a.m.	637	194	29.38	746.2	30.08	764.0	45.9	7.7	84.4	7	3	.....	.....	1	16	.....	3	1	.....	.....	6	1.27	32.3
Cedar Keys	N. 29 08	W. 83 02	6.36 a.m.	22	7	30.24	768.1	30.26	768.6	46.9	8.3	86.6	9	5	1	1	3	1	4	7	.....	6859	11038	4	5.08	129.0
Charleston	N. 32 47	W. 79 56	6.48 a.m.	52	16	30.15	765.8	30.21	767 3	42.5	5.8	85.6	4	7	4	9	.....	.....	1	5	1	6252	10061	6	5.89	149.6
Charlotte	N. 35 13	W. 80 51	6.44 a.m.	808	246	29.33	745.0	30.22	767.6	33.8	1.0	77.2	5	3	2	10	2	2	1	6	.....	3977	6400	7	7.60	193.0
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.42	747.3	30.28	769.1	30.3	—0.9	76.7	2	6	4	7	2	1	2	6	1	5066	8153	7	5.88	149.4
Cheyenne	N. 41 08	W. 104 48	5.09 a.m.	6105	1861	23.96	608.6	30.23	767.8	20.4	—6.4	63.2	4	17	6	1	1	.....	1	1	.....	10751	17302	2	0.76	19.3
Chicago	N. 41 52	W. 87 38	6.18 a.m.	661	201	29.41	747.0	30.16	766.1	16.6	—8.6	71.5	1	3	12	10	1	1	1	2	.....	6713	10803	6	1.39	35.3
Chincoteague	N. 37 55	W. 75 23	7.06 a.m.	18	5	30.15	765.8	30.17	766.3	30.6	—0.8	84.3	6	9	1	3	4	1	1	5	1	9686	15588	6	4.89	124.2
Cincinnati	N. 39 06	W. 84 30	6.30 a.m.	620	189	29.56	750.8	30.25	768.3	22.8	—5.1	81.7	1	5	2	10	3	3	3	3	1	4542	7310	6	2.21	56.1
Cleveland	N. 41 30	W. 81 42	6.41 a.m.	690	210	29.37	746.0	30.15	765.8	16.6	—8.6	81.9	4	1	3	9	9	2	1	2	.....	9017	14511	7	1.55	39.4
Columbus	N. 39 58	W. 83 00	6.36 a.m.	805	245	29.30	744.2	30.20	767.1	16.5	—8.6	80.3	3	5	1	8	10	3	1	.....	.....	6457	10391	7	2.25	57.1
Concho, Fort	N. 31 25	W. 100 24	5.26 a.m.	1900	579	28.33	719.6	30.35	770.9	30.0	—1.1	85.3	5	4	3	6	6	....	.....	3	4	7186	11565	5	1.26	32.0
Custer, Fort	N. 45 42	W. 107 34	4.58 a.m.	3040	926	26.90	683.2	30.28	769.1	8.9	-12.8	77.5	6	.....	7	1	.....	7	6	2	2	4525	7282	5	2.85	72.4
Davenport	N. 41 30	W. 90 38	6.06 a.m.	615	187	29.51	749.5	30.22	767.6	13.0	-10.1	09.2	6	9	5	6	1	1	1	2	.....	6094	10773	5	0.75	19.0
Davis, Fort	N. 30 38	W. 103 50	5.12 a.m.	4940	1506	28.31	042.9	30.29	769.4	27.9	—2.3	75.8	7	1	.....	3	3	4	.....	.....	13	4471	7195	3	0.48	12.2
Dayton	N. 46 19	W. 117 56	4.16 a.m.	1667	508	28.44	722.4	30.25	768.3	28.1	—2.2	85.0	5	.....	6	8	2	1	4	2	3	3001	4830	4	3.14	79.8
Deadwood	N. 44 23	W. 103 43	5.13 a.m.	4600	1402	25.34	643.6	30.29	769.4	18.2	—7.7	83.1	4	1	1	13	7	1	1	1	2	3155	5077	4	0.85	21.6
Del. Breakwater	N. 38 48	W. 75 10	7.07 a.m.	20	6	30.16	766.1	30.18	766.6	28.9	—1.7	83.1	3	7	1	7	3	2	3	5	.....	14214	22875	5	4.19	106.4
Denver	N. 39 45	W. 105 00	5.08 a.m.	5294	1614	24.73	628.1	30.25	768 3	24.7	—4.1	62.3	3	1	3	2	15	2	.....	1	4	5650	9093	2	0.22	5.6
Des Moines	N. 41 35	W. 93 37	5.54 a.m.	849	259	29.29	744.0	30.26	768.6	10.9	-11.7	65.2*a*	13	5	4	2	4	.....	1	1	1	5507	8872	4	0.85	21.6
Detroit	N. 42 20	W. 83 03	6.36 a.m.	661	201	29.40	746.7	30.16	766.1	19.2	—7.1	72.6	2	3	9	8	2	.....	.....	1	6	7719	12422	7	2.08	52.8
Dodge City	N. 37 45	W. 100 00	5.28 a.m.	2517	767	27.53	699.2	30.28	769.1	18.3	—7.6	73.3	2	6	13	4	.....	4	1	1	.....	9133	14698	2	0.08	2.0
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.45	748.0	30.22	767.6	9.4	-12.6	59.2	4	9	7	4	6	1	.....	.....	.....	4278	6885	6	0.99	25.1
Duluth	N. 46 48	W. 92 06	6.00 a.m.	644	184	29.39	746.5	30.20	767.1	—0.4	-18.0	85.2	2	6	5	8	3	.....	.....	2	5	5342	8597	5	0.67	17.0
Eastport	N. 44 54	W. 66 59	7.40 a.m.	61	18	30.01	762.2	30.08	764.0	14.6	—9.7	75.0	7	5	2	10	1	.....	2	2	2	9137	14704	6	4.37	111.0
Elliott, Fort	N. 35 30	W. 100 21	5.27 a.m.	2650	808	27.37	695.2	30.30	769.6	23.6	—4.7	80.2	4	5	4	3	4	3	.....	5	3	9713	15631	3	0.61	15.5
El Paso	N. 31 47	W. 106 30	5.02 a.m.	3764	1147	26.40	670.5	30.28	769.1	31.2	—0.4	71.6	.....	6	2	.....	.....	4	2	1	16	2823	4543	3	0.55	14.0
Erie	N. 42 07	W. 80 05	6.48 a.m.	681	208	29.37	746.0	30.14	765.5	18.3	—7.6	84.6	.....	4	1	12	7	3	.....	4	.....	7376	11870	9	4.59	116.6
Escanaba	N. 45 48	W. 87 05	6.20 a.m.	612	186	29.40	746.7	30.12	765 0	3.1	-16.1	77.3	5	5	9	5	6	1	.....	.....	.....	7100	11426	6	0.55	14.0
Fort Smith	N. 35 22	W. 94 24	5.50 a.m.	451	137	29.80	756.9	30.30	769.6	24.3	—4.3	81.3	5	2	3	1	.....	1	12	1	6	4687	7543	5	1.35	34.3
Galveston	N. 29 18	W. 94 47	5.49 a.m.	40	12	30.20	767.1	30.24	768.1	43.5	6.4	79.6	11	2	3	.....	5	4	.....	6	.....	8958	14116	6	5.11	129.8
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.40	746.7	30.11	764.8	18.6	—7.4	80.5	8	2	4	5	6	1	4	1	.....	9738	15671	9	2.83	71.9
Grant, Fort	N. 32 39	W. 109 57	4.48 a.m.	4860	1481	25.28	642.1	30.18	766.6	33.4	0.8	64.6	5	4	.....	1	2	4	7	8	.....	5395	8682	4	1.12	28.4
Hatteras	N. 35 15	W. 75 40	7.05 a.m.	12	4	30.17	766.3	30.18	766.6	41.0	5.0	83.7	6	9	.....	6	1	2	.....	7	.....	11024	17741	7	7.64	195.1
Helena	N. 46 34	W. 112 04	4.40 a.m.	4044	1232	25.93	658.6	30.31	769.9	.....	.....	.....	8	8	5	.....	.....	.....	.....	2	8	2850	4586	6	3.75	95.2
Huron	N. 44 21	W. 98 09	5.35 a.m.	1305	398	28.78	731.0	30.32	770.1	2.9	-16.2	79.5	7	11	.....	1	5	5	.....	.....	2	7379	11875	3	0.09	2.3
Indianapolis	N. 39 46	W. 86 10	6.23 a.m.	753	229	29.34	745.2	30.18	766.6	18.4	—7.6	72.7	4	5	4	7	4	.....	3	3	1	5057	8138	6	1.05	26.7

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for January, 1884.																				Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.															
						Actual.		Reduced.					Directions.									Total Movement.						
				Feet.	Metr's	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
U. S.—Continued.	° ′	° ′																										
Indianola	N. 28 32	W. 96 31	5.42 a.m.	26	8	30.24	768.1	30.27	768.8	42.3	5.7	81.7	14	2	3	1	6	3	1	1	.....	11715	18853	4	0.71	18.0
Jacksonville	N. 30 20	W. 81 39	6.42 a.m.	43	13	30.21	767.3	30.26	768.6	46.4	8.0	87.2	7	7	6	1	4	1	1	.....	4	3060	4924	5	4.78	121.4
Keokuk	N. 40 22	W. 91 26	6.02 a.m.	618	188	29.54	750.3	30.21	768.1	15.0	—9.4	77.8a	4	9	2	6	2	2	.....	1	5	4403	7086	4	0.85	21.6
Key West	N. 24 34	W. 81 49	6.41 a.m.	20	6	30.17	766.3	30.19	766.8	66.4	19.1	83.5	4	1	.....	2	1	5	2	16	.....	9343	15035	5	1.82	46.2
Kittyhawk	N. 36 00	W. 75 42	7.05 a.m.	22	7	30.19	766.8	30.21	767.3	36.7	2.6	81.4	1	8	4	5	.....	2	.....	11	.....	12730	20106	6	6.50	165.1
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.19	741.4	30.27	768.8	25.5	—3.6	86.8	4	2	5	5	.....	2	.....	11	2	4989	8029	6	6.66	169.2
La Crosse	N. 43 49	W. 91 15	6.03 a.m.	725	221	29.36	745.7	30.20	767.1	6.6	—14.1	78.7	6	3	9	3	8	1	.....	1	.....	6259	10073	5	0.53	13.5
Leavenworth	N. 39 19	W. 94 57	5.48 a.m.	842	256	29.34	745.2	30.30	769.6	16.6	—8.6	75.8	10	5	.....	1	11	2	1	.....	1	5586	8990	5	0.97	24.6
Lewiston	N. 46 28	W. 117 05	4.20 a.m.	780	238	29.42	747.3	30.29	769.4	29.0	—1.7	71.5	.....	.....	.....	2	.....	4	.....	7	18	826	1329	6	2.15	54.6
Little Rock	N. 34 45	W. 92 06	6.00 a.m.	298	91	29.97	761.2	30.30	769.6	30.3	—0.9	79.5	2	5	1	2	4	.....	2	5	10	4035	6493	4	3.45	87.6
Los Angeles	N. 34 03	W. 118 15	4.15 a.m.	371	113	29.74	755.4	30.14	765.5	46.9	8.3	67.9	1	.....	1	.....	.....	2	7	18	2	5166	8314	3	3.15	80.0
Louisville	N. 38 15	W. 85 45	6.25 a.m.	530	162	29.61	752.1	30.20	767.1	24.8	—4.0	77.4	6	2	5	7	5	3	.....	3	.....	6971	11218	7	1.91	49.3
Lynchburg	N. 37 25	W. 79 09	6.52 a.m.	652	199	29.46	748.3	30.18	766.6	29.6	-1.3	79.6	.....	6	2	6	3	1	2	5	6	2763	4446	7	8.48	215.4
Mackinaw City	N. 45 47	W. 84 39	6.30 a.m.	605	184	29.38	746.2	30.08	764.0	11.1	-11.6	78.4	3	4	11	4	3	1	2	3	.....	7820	12585	8	8.09	205.5
Macon, Fort	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.20	767.1	30.21	767.3	39.4	4.1	81.2	10	7	4	4	4	1	.....	1	.....	12271	19748	7	5.73	145.5
Maginnis, Fort	N. 47 12	W. 109 10	4.51 a.m.	4340	1324	25.80	655.3	30.35	770.9	17.3	—8.2	54.6	1	11	6	6	.....	1	.....	6	.....	10502	17061	6	1.47	37.3
Marquette	N. 46 34	W. 87 24	6.18 a.m.	673	205	29.31	745.2	30.12	765.0	7.4	-13.7	67.3	3	5	15	1	2	4	.....	1	.....	7067	11373	6	0.91	23.1
Memphis	N. 35 09	W. 90 03	6.08 a.m.	321	98	29.92	760.0	30.28	769.1	28.4	—2.0	85.5	2	5	4	1	3	7	1	3	5	5150	8298	7	5.66	143.8
Milwaukee	N. 43 02	W. 87 54	6.16 a.m.	697	212	29.35	745.5	30.15	765.8	11.2	-11.6	79.2	6	11	5	6	2	1	.....	.....	.....	10685	17195	5	1.69	42.7
Mobile	N. 30 41	W. 88 02	6.16 a.m.	35	11	30.23	767.8	30.27	768.8	38.3	3.5	81.2	19	3	.....	.....	2	1	2	1	3	5143	8276	7	7.40	188.0
Montgomery	N. 32 23	W. 86 18	6.23 a.m.	219	66	30.05	763.3	30.29	769.4	35.4	1.9	82.9	7	6	2	1	1	3	2	1	8	3891	6146	6	4.82	122.4
Moorhead	N. 46 52	W. 96 44	5.41 a.m.	923	281	29.13	739.9	30.24	768.1	—9.4	-23.0	94.0	10	3	3	.....	7	3	.....	1	4	7413	11930	4	0.55	14.0
Mt. Washington	N. 44 16	W. 71 18	7.23 a.m.	6279	1914	23.38	593.8	30.01	762.2	4.2	-15.4	80.8c	.....	16	7	4	.....	2	.....	.....	2	.....	.....	4	2.45	62.2
Nashville	N. 36 10	W. 86 47	6.21 a.m.	549	167	29.66	753.4	30.27	768.8	25.7	—3.5	85.2	4	10	1	3	6	4	1	2	.....	5320	8562	8	7.20	182.9
New Haven	N. 41 18	W. 72 56	7.16 a.m.	107	32	30.02	762.5	30.14	765.5	19.8	—5.8	78.9	6	3	5	7	2	.....	.....	6	2	6809	10958	5	4.63	117.6
New London	N. 41 21	W. 72 05	7.20 a.m.	47	14	30.12	765.0	30.17	766.3	22.9	—5.1	77.1	5	9	7	3	.....	2	.....	5	.....	6782	10914	5	6.12	155.4
New Orleans	N. 29 58	W. 90 04	6.08 a.m.	52	16	30.20	767.1	30.26	768.6	43.4	6.3	78.0	8	3	.....	.....	2	8	2	5	3	6817	10971	5	4.35	110.5
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	29.98	761.5	30.17	766.3	23.5	—4.7	80.9	2	4	8	5	2	1	.....	7	2	6203	9983	7	6.07	154.2
Norfolk	N. 36 51	W. 76 17	7.03 a.m.	30	9	30.16	766.1	30.18	766.6	34.9	1.6	78.3	11	1	2	9	1	2	1	4	.....	5482	8822	7	5.91	150.9
North Platte	N. 41 08	W. 100 45	5.25 a.m.	2841	866	27.17	690.1	30.29	769.4	13.0	-10.6	79.9	1	9	11	.....	.....	2	.....	1	7	5983	9538	4	0.10	2.5
Olympia	N. 47 03	W. 122 53	3.57 a.m.	36	11	30.08b	764.0b	30.12b	765.0b	37.8	3.2	86.7	2	.....	.....	1	9	.....	.....	.....	19	1320	2124	7	5.47	138.9
Omaha	N. 41 16	W. 95 56	5.44 a.m.	1113	339	29.04	737.6	30.31	769.9	11.8	-11.2	73.3a	10	4	2	4	5	3	.....	2	1	7214	11610	4	0.73	18.5
Oswego	N. 43 29	W. 76 35	7.02 a.m.	304	93	29.75	755.6	30.10	764.5	20.7	—6.3	66.6	2	2	3	4	7	8	1	4	.....	8806	14172	10	6.49	164.8
Palestine	N. 31 45	W. 95 40	5.45 a.m.	533	162	29.72	754.9	30.30	769.6	34.9	1.6	75.0	3	7	1	2	10	.....	3	5	.....	5861	9432	5	2.31	58.7
Pensacola	N. 30 25	W. 87 13	6.19 a.m.	30	9	30.24	768.1	30.27	768.8	41.9	5.5	77.4	11	7	.....	.....	1	2	4	6	.....	6510	10477	6	3.69	93.7
Philadelphia	N. 39 57	W. 75 09	7.07 a.m.	92	28	30.07	763.8	30.18	766.6	26.4	—3.1	75.5	3	8	.....	11	.....	.....	2	6	1	6093	9806	5	5.46	138.7
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	17.57	446.3	30.27	768.8	—0.4	—18.0	86.5	7	9	8	3	1	.....	.....	3	.....	20868	33583	2	0.10	2.5
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	766	233	29.32	744.7	30.17	766.3	21.8	—5.7	81.4	1	7	5	7	6	2	1	2	.....	5903	9500	7	4.82	122.4
Poplar, River h	N. 48 08	W. 105 10	5.07 a.m.	2030	619	.....	.....	.....	.....	—5.3	—20.7	89.0	1	1	11	.....	.....	2	3	5	.....	.....	.....	5	0.31	7.9
Port Huron	N. 43 00	W. 82 26	6.38 a.m.	633	193	29.35	745.5	30.08	764.0	12.7	-10.7	83.6	3	3	4	9	6	2	.....	3	1	9301	14968	7	1.63	41.4
Portland, Maine	N. 43 39	W. 70 15	7.27 a.m.	45	14	30.03	702.7	30.08	764.0	18.2	—7.7	77.9	7	5	5	8	1	.....	1	4	.....	6806	10953	6	4.54	115.3
Portland, Oreg.	N. 45 32	W. 122 43	3.57 a.m.	67	20	30.06	763.5	30.13	765.3	36.4	2.4	84.5	4	2	1	2	7	1	4	1	9	3662	5893	5	3.70	94.0
Prescott	N. 34 33	W. 112 28	4.38 a.m.	5340	1628	24.83	630.7	30.21	767.3	28.6	—1.9	73.2	1	.....	4	11	4	3	5	1	2	4269	6870	3	0.25	6.3
Provincetown	N. 42 03	W. 70 11	7.27 a.m.	26	8	30.08	764.0	30.11	764.8	26.7	—2.9	80.2	6	6	6	3	2	2	2	2	2	8919	14354	7	6.58	167.1
Red Bluff	N. 40 10	W. 122 15	3.59 a.m.	332	101	29.81	757.2	30.18	766.6	41.2	5.1	82.3	23	.....	1	.....	3	.....	1	.....	3	5168	8317	4	3.55	90.2
Rio Grande City	N. 26 22	W. 98 45	5.33 a.m.	230	70	30.08	764.0	30.33	770.4	44.2	6.8	78.1	4	11	.....	.....	1	5	4	3	3	5612	9032	4	0.47	11.9
Rochester	N. 43 08	W. 77 42	6.57 a.m.	621	189	29.40	746.7	30.11	764.8	17.3	—8.2	84.4	.....	3	12	6	3	3	1	3	.....	11714	18851	9	5.13	130.3
Roseburg a	N. 43 13	W. 123 20	3.55 a.m.	511	156	29.58	751.3	30.14	765.5	30.5	2.5	85.9	3	1	.....	1	7	3	6	5	4	2017	3246	6	3.60	93.0
Sacramento	N. 38 35	W. 121 30	4.02 a.m.	65	20	30.09	764.3	30.17	766.3	41.3	5.2	89.1	6	3	.....	1	3	11	2	1	4	4279	6886	4	3.43	87.1
Saint Louis	N. 38 38	W. 90 12	6.07 a.m.	583	178	29.02	752.3	30.28	769.1	22.6	—5.2	77.6	7	6	2	6	7	3	.....	.....	.....	10686	17197	4	0.79	20.1
Saint Michael, Ft	N. 63 48	W. 162 00	1.20 a.m.	30	9	29.70	754.4	29.73	755.1	0.8	-17.3	97.3	3	.....	3	2	4	2	2	14	1	.....	.....	6	0.57	14.5
Saint Paul	N. 44 58	W. 93 03	5.56 a.m.	801	244	29.27	743.4	30.21	767.3	2.9	-16.2	92.2b	.....	7	8	1	1	4	.....	1	9	4253	6844	5	0.48	12.2
Saint Vincent	N. 48 56	W. 97 14	5.39 a.m.	804	245	29.29	744.0	30.27	768.8	—11.0	—23.9	91.1	4	11	2	2	8	3	.....	1	.....	7341	11814	3	0.14	3.6
Salt Lake City	N. 40 46	W. 111 54	4.49 a.m.	4348	1325	25.78	654.8	30.35	770.9	24.6	—4.1	58.6	.....	5	.....	1	.....	8	4	.....	13	3257	5242	4	0.71	18.0
San Diego	N. 32 43	W. 117 10	4.19 a.m.	67	20	30.04	763.0	30.11	764.8	49.0	9.4	67.3	4	2	.....	1	.....	2	5	17	.....	4343	6999	2	1.34	34.0
Sandusky	N. 41 25	W. 82 40	6.37 a.m.	639	195	29.43	747.5	30.15	765.8	18.5	—7.5	72.5	5	2	3	18	1	1	1	.....	.....	8975	13961	7	1.25	31.7
Sandy Hook	N. 40 28	W. 74 00	7.12 a.m.	28	8	30.14	765.5	30.17	766.3	25.5	-3.6	72.2	3	6	6	6	2	.....	3	5	.....	15215	24486	5	6.76	171.7
Sanford	N. 28 48	W. 81 23	6.42 a.m.	50	15	30.16	766.1	30.22	767.6	50.0	10.0	88.4	7	12	.....	5	2	1	.....	3	1	5972	9611	5	0.91	23.1
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	30.08	764.0	30.15	765.8	47.6	8.7	87.2	5	4	1	1	7	5	1	5	2	4498	7239	5	3.94	100.1
Savannah	N. 32 05	W. 81 05	6.44 a.m.	87	26	30.14	765.5	30.24	768.1	41.6	5.3	74.8	5	9	7	6	1	.....	.....	3	.....	5589	8994	5	3.89	98.8
Shaw, Fort	N. 47 31	W. 111 48	4.41 a.m.	3550	1082	26.42	671.1	30.28	769.1	19.6	—6.9	71.4	.....	1	7	15	.....	1	2	4	1	8325	13398	5	0.85	21.8
Shreveport	N. 32 30	W. 93 40	5.53 a.m.	227	69	30.09	764.3	30.34	770.6	32.2	0.1	75.9	3	8	.....	.....	8	4	3	4	1	4770	7676	6	4.55	115.6
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.80	756.9	29.87	758.7	37.8	3.2	73.2	.....	1	2	.....	.....	2	23	3	.....	8889	14305	7	14.01	355.8
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.17	766.3	30.21	767.3	39.8	4.3	85.5	10	5	8	2	2	1	1	2	.....	7279	11714	6	3.44	87.4
Spokane Falls	N. 47 40	W. 117 25	4.18 a.m.	1910?	582?	28.14c	714.7c	30.28c	769.1c	19.8c	—6.8c	77.7c	7	2	2	3	1	.....	1	1	14	1906	3067	5c	1.79c	45.5c
Springfield, Ill.	N. 39 48	W. 89 39	6.10 a.m.	644	196	29.51	749.5	30.24	768.1	18.2	—7.7	81.7	6	5	3	5	6	1	1	2	2	6678	10747	5	1.51	38.4
Stockton, Fort	N. 30 53	W. 102 53	5.16 a.m.	3010	917	27.15	689.6	30.29	769.4	30.6	—0.8	77.9	7	.....	1	5	6	.....	.....	1	11	4639	7466	4	0.21	5.3
Tatoosh Id	N. 48 23	W. 124 44	3.21 a.m.	86	26	29.97	761.2	.....	.....	39.9	4.4	87.9	.....	.....	.....	3	4	1	20	2	1	12136	19531	7	13.32	338.3
Thomas, Camp	N. 33 04	W. 110 02	4.48 a.m.	2710	826	27.42	696.5	30.25	768.3	30.2	—1.0	76.6	.....	1	2	.....	4	2	3	.....	19	.....	.....	4	0.45	11.4
Toledo	N. 41 40	W. 83 34	6.34 a.m.	651	198	29.40	746.7	30.14	765.5	16.6	—8.6	80.8	2	.....	14	8	3	1	.....	3	.....	6232	10029	7	2.61	66.3
Unalaska	N. 53 53	W. 166 32	1.02 a.m.	13	4	29.44	747.8	29.46	748.3	33.1	0.6	82.4	2	2	1	5	11	5	3	.....	2	9620	15482	8	11.93	303.0
Vicksburg	N. 32 22	W. 90 53	6.04 a.m.	244	74	30.03	762.7	30.30	769.6	35.5	1.9	77.4	5	5	1	1	3	9	5	2	.....	5710	9238	6	8.20	208.3
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	30.09	764.3	30.21	767.3	25.4	—3.7	83.2	8	9	.....	5	4	1	.....	4	.....	4148	6676	6	5.59	142.0
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	26.10	662.9	30.23	767.8	13.1	-10.5	85.7	.....	5	16	3	.....	1	3	3	.....	5372	8645	3	0.26	6.6
Wilmington	N. 34 14	W. 77 57	6.56 a.m.	52	16	30.16	766.1	30.22	767.6	40.6	4.8	79.1	8	4	6	7	1	1	.....	4	.....	5737	9233	6	5.22	132.6
Yankton	N. 42 54	W. 97 28	5.38 a.m.	1228	374	28.89	733.8	30.31	769.9	7.0	-13.9	76.3	9	2	7	1	1	1	1	3	6	5923	9532	4	0.25	6.3
Yuma	N. 32 45	W. 114 36	4.30 a.m.	141	43	29.98	761.5	30.12	765.0	47.5	8.6	51.0	8	2	.....	.....	1	3	2	10	5	4582	7374	4	inap.	inap.
Sub-Series.																												
Behring Island	N. 55 12	E. 165 55	11.12 p.m.	20	6	29.57	751.1	29.59	751.6	26.0	—3.3	84.9	10	.....	.....	1	1	2	2	14	1	12233a	19687a	9	0.94	23.9
Bluefields	N. 12 00	W. 83 43	6.31 a.m.	?	?	.....	.....	.....	.....	75.1	23.9	.....	8	16	.....	.....	.....	.....	.....	7	.....	.....	.....	6	10.25	260.4
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	22.01	558.9	.....	.....	51.1	10.6	84.2	3	3	.....	1	3	.....	3	7	11	.....	.....	.....	2.94	74.7
Chimo, Ft.	N. 59 00	W. 68 00	7.36 a.m.	1261	384	29.78	756.4	29.94	760.5	—23.5	-30.8	100.	.....	.....	.....	9	10	.....	1	2	9	7017	11293	3	0.78	19.8
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	.....	.....	30.10	764.5	69.4	20.8	85.3	23	.....	.....	.....	.....	.....	2	.....	6	2992	4815	3	0.75	19.0
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.07	763.8	30.07	763.8	76.9	24.9	88.0	.....	.....	.....	.....	.....	1	26	4	.....	.....	.....	9	6.50	165.1
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.41	747.0	29.97	761.2	78.3	25.7	87.2	2	.....	.....	.....	9	.....	.....	.....	20	.....	.....	2	1.15	29.2
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	73.9	23.3	90.3	.....	1	.....	.....	.....	.....	.....	30	.....	.....	.....	2	0.59	15.0
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	30.09	762.0	30.07	763.8	—30.6	—34.8	.....	4	9	11	6	.....	1	.....	.....	.....	11000	17702	4	1.23	31.2
U. S. COLOMBIA.																												
Sub-Series.																												
Colon	N. 9 22	W. 79 55	6.50 a.m.	7	2	29.95	760.6	29.96	760.9	78.4	25.8	85.0	27	1	.....	.....	2	.....	.....	.....	.....	.....	.....	6	.....	.....
Naûs	N. 8 55	W. 79 32	6.50 a.m.	39	12	29.90	759.5	29.97	761.2	74.3	23.5	89.9	17	13	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....

OCEAN SQUARE DATA FOR JANUARY, 1884.

Location of Centre of each Square.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
	Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 12.5° W. 22.5°	30.02	762.5	74.7	23.7	1					1	6	23			4.4
12.5 27.5	30.06	763.5	75.0	23.9	2						8	20	1		4.4
12.5 32.5	30.08	764.0	75.8	24.3	1						11	14		5	4.8
12.5 37.5	30.10	764.5	76.2	24.6							10	12		9	4.6
12.5 42.5	30.11	764.8	76.0	24.4							13	8		10	4.6
12.5 47.5	30.12	765.0	76.0	24.4							14	7		10	4.4
12.5 52.5	30.11	764.8	76.5	24.7							22	9			4.2
17.5 22.5	30.09	764.3	71.4	21.9	1					1	15	9	5		4.0
17.5 27.5	30.10	764.5	71.6	22.0	2						15	7	6	1	3.8
17.5 32.5	30.13	765.3	72.9	22.7	2	1				1	10	10		7	4.6
17.5 37.5	30.15	765.8	74.0	23.3	4						11	9	2	5	4.4
17.5 42.5	30.17	766.3	74.3	23.5	2					1	15	6		7	4.4
17.5 47.5	30.17	766.3	74.7	23.7	4					2	17	2		6	4.6
17.5 52.5	30.15	765.8	75.6	24.2	1					3	16	10		1	4.1
17.5 57.5	30.13	765.3	77.4	25.2	1						15	15			4.3
22.5 22.5	30.15	765.8	69.5	20.8			1		2	2	10	8	2		3.5
22.5 27.5	30.10	766.1	69.6	20.9	1		1		2	3	14	4	2	4	3.9
22.5 32.5	30.17	766.3	70.8	21.6	2	3	2	1	1	2	12	3		5	4.5
22.5 37.5	30.19	766.8	71.8	22.1	7	2	1		1		12	4	1	3	4.4
22.5 42.5	30.20	767.1	72.3	22.4	7	2		1		1	10	7	1	2	4.5
22.5 47.5	30.21	767.3	72.7	22.6	4	2				2	14	6	1	2	4.1
22.5 52.5	30.22	767.6	73.8	23.2	6					6	13	3		3	4.1
22.5 57.5	30.20	767.1	75.0	23.9	2			1		4	17	6	1		4.1
22.5 62.5	30.19	766.8	74.8	23.8		1				5	18	6	1		4.0
22.5 67.5	30.18	766.6	75.1	23.9	5					6	10	7	3		3.5
22.5 72.5	30.18	766.6	74.4	23.6	2		1			2	17	7	1	1	3.8
27.5 22.5	30.22	767.6	67.0	19.4	1	1		4	1	7	10	5	2		3.6
27.5 27.5	30.19	766.8	66.9	19.4		1	2	2	5	4	11	3	2	1	3.6
27.5 32.5	30.19	766.8	68.1	20.1	3	1	5		5	4	10	3			4.5
27.5 37.5	30.22	767.6	68.6	20.3	7	6	2	1		5	5	3	1	1	4.8
27.5 42.5	30.24	768.1	69.1	20.0	7	4	2	1	2	3	7	4		1	4.7
27.5 47.5	30.24	768.1	69.7	20.9	5	4	1	2	3	2	9	3		2	4.6
27.5 52.5	30.24	768.1	70.8	21.6	2	4	1		5	4	7	5	2	1	3.8
27.5 57.5	30.24	768.1	71.5	21.9	2	6	1		4	6	8	1	2	1	3.5
27.5 62.5	30.22	767.6	71.3	21.8	4	4	2	2	5	5	6	1	2		3.8
27.5 67.5	30.22	767.6	71.4	21.9	3	4	4	2	4	5	3	4	2		4.0
27.5 72.5	30.23	767.8	70.5	21.4	6	3		3	3	5	4	6		1	4.0
27.5 77.5	30.18	766.6	66.7	19.3	7		2		6	6	4	6			3.9
32.5 12.5	30.33	770.4	64.5	18.1	1			2	4	4	12	7	1		2.9
32.5 17.5	30.30	769.6	63.5	17.5	3		1	3	3	8	7	4	2		2.5
32.5 22.5	30.25	768.3	64.4	18.0	1	1	3	3	6	5	9	2	1		4.0
32.5 27.5	30.22	767.6	65.1	18.4	1	3	3	3	5	6	3	4	2	1	4.0
32.5 32.5	30.19	766.8	65.0	18.3	2	4	2	3	6	4	3	4	1	2	4.5
32.5 37.5	30.20	767.1	67.3	19.6	6	8	3		5	2	3	2	1	1	4.5
32.5 42.5	30.25	768.3	64.5	18.1	5	6	4	1	7	3	2	2	1		4.5
32.5 47.5	30.25	768.3	65.1	18.4	4	5	5	6	2	3	4	2			5.1
32.5 52.5	30.24	768.1	65.7	18.7	7	2	3	6	3	2	5	2	1		4.3
32.5 57.5	30.23	767.8	65.8	18.8	2	1	10	3	2	3	5	3	1	1	4.2
32.5 62.5	30.16	766.1	64.3	17.9	2	1	10	5	3	1	7	2			4.5
32.5 67.5	30.17	766.3	65.0	18.3	3	4	6	5	5	2	2	3	1		4.5
32.5 72.5	30.19	766.8	62.9	17.2	3	7	4	4	5	1	1	4		2	5.5
32.5 77.5	30.21	767.3	51.0	10.6	5	2	8	4	2	1	2	4			5.2
37.5 12.5	30.34	770.6	57.9	14.4	2	1	4	4	3	6	7	4			3.7
37.5 17.5	30.28	769.1	60.5	15.8		4	3	6	5	5	5	2	1		3.8
37.5 22.5	30.24	768.1	61.7	16.5	1	4	3	5	4	4	4	3	3		3.8
37.5 27.5	30.21	767.3	62.0	16.7	1	3	5	5	2	4	1	3	7		2.9
37.5 32.5	30.17	766.3	62.0	16.7	4	6	5	5	4	1	4		2		4.5
37.5 37.5	30.17	766.3	60.8	16.0	3	6	6	7	1	1	2	4	1		4.5
37.5 42.5	30.19	766.8	58.7	14.8	3	6	9	5	2	3		2		1	4.9
37.5 47.5	30.19	766.8	57.6	14.2	5	7	7	4	4		2	1	1		4.9
37.5 52.5	30.18	766.6	56.9	13.8	7	4	9	3	3	2	1	2			4.7
37.5 57.5	30.14	765.5	57.1	13.9	4	3	10	6	2	2		3		1	5.4
37.5 62.5	30.12	765.0	55.6	13.1	4	6	6	7		3	2	2	1		5.2
37.5 67.5	30.11	764.8	52.9	11.6	7	8	4	4	4	2	1	1			5.4
37.5 72.5	30.14	765.5	44.1	6.7	12	5	4	4	3	2	1				6.2
42.5 12.5	30.25	768.3	55.3	12.9	3	4	3	7	4	3	5		2		4.2
42.5 17.5	30.19	766.8	57.5	14.2		3	8	9	3	7	1				5.1
42.5 22.5	30.13	765.3	58.2	14.6	1	4	5	9	5	3	3		1		4.8
42.5 27.5	30.09	764.3	58.1	14.5	1	5	7	7	5	3	2		1		4.8
42.5 32.5	30.08	764.0	57.4	14.1	1	6	11	6	3	1	2	1			5.2
42.5 37.5	30.08	764.0	55.0	12.8	1	8	10	6	2	3		1			5.3
42.5 42.5	30.08	764.0	51.2	10.7	2	12	7	3	4	1	1			1	5.2
42.5 47.5	30.10	764.5	45.9	7.7	3	8	8	2	5	1	1	2	1		5.5
42.5 52.5	30.08	764.0	43.6	6.4	5	4	8	4	7	1			1	1	5.1
42.5 57.5	30.05	763.3	41.8	5.4	3	10	7	5	3	1	1	1			5.6
42.5 62.5	30.08	764.0	34.4	1.3	7	2	10	4	1	2	1	4			5.5
42.5 67.5	30.09	764.3	28.6	−1.9	9	4	5	5		3	1	2	2		4.7
47.5 12.5	30.12	765.0	53.0	11.7		2	7	10	6	4	2				5.9
47.5 17.5	30.06	763.5	54.1	12.3		2	11	6	9	2	1				6.2
47.5 22.5	29.99	761.7	53.7	12.1		3	7	11	7	2				1	6.1
47.5 27.5	29.96	761.0	52.2	11.2		3	11	7	8	2					5.9
47.5 32.5	29.89	759.2	50.9	10.5	2	7	11	5	4	1			1		5.6
47.5 37.5	29.88	758.9	47.3	8.5	3	6	11	5	4	1		1			6.1
47.5 42.5	29.90	759.4	39.7	4.3	2	7	12	5	4	1					5.9
47.5 47.5	29.92	760.0	32.4	0.2	2	8	13	2	4	1			1		5.8
52.5 12.5	29.99	761.7	49.2	9.6		2	15	6	5	2	1				5.6
52.5 17.5	29.88	758.9	49.1	9.5		3	10	9	5	3		1			6.2
52.5 22.5	29.80	756.9	47.6	8.7	1	3	8	11	3	4	1				5.9
52.5 27.5	29.75	755.6	44.6	7.0	3	3	12	7	3	2	1				6.4
52.5 32.5	29.73	755.1	41.2	5.1	3	4	12	6	3	2	1				5.8
52.5 37.5	29.70	754.4	37.3	2.9	2	6	12	7	3			1			5.5
52.5 42.5	29.70	754.4	32.1	0.1	2	5	12	7	3			2			6.1
52.5 47.5	29.72	754.9	24.6	−4.1	6	8	7	6	3				1		5.5
57.5 12.5	29.67	753.6	43.3	6.3	1	5	13	6	1	4		1			6.2
57.5 17.5	29.63	752.6	42.3	5.7	2	4	11	7	4	1	2				6.4
57.5 22.5	29.58	751.3	42.4	5.8	2	4	9	9	2	1	3	1			5.8
57.5 27.5	29.55	750.6	36.7	2.6	2	5	9	10	1	1	3				6.1
57.5 32.5	29.55	750.6	33.2	0.7	2	5	11	7	1	1	2	1	1		5.8
57.5 37.5	29.51	749.5	28.7	−1.8	5	4	7	9	1	2	1	2			5.8
57.5 42.5	29.53	750.0	23.2	−4.9	4	7	6	7	2	1	1	3			5.4
57.5 47.5	29.56	70.8	17.7	−7.9	7	10	2	6	3		1	2			5.1

BEHRING ISLAND, KAMCHATKA (N. 55° 12′, E. 165° 55′).

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Barometer. Corrected for instrumental error and temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative Humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles per hour	Wind. Velocity. Metrs pr sec.	Wind. Force 0-10	Clouds. Amount. Upper. 0-10	Clouds. Amount. Lower. 0-10	Clouds. Direction. Up'er From	Clouds. Direction. Lo'er From	Rainfall in past 24 hours. Inch.	Rainfall in past 24 hours. Mill.	WEATHER.
1883.																		
October 1	30.10	764.5	30.12	765.0	42.2	5.7	99	sw.	12	5.4	.....	0	4 k	.....	.....	0	0	fair.
2	29.76	755.9	29.78	756.4	45.0	7.2	99	sw.	14	6.3	.....	.....	10 n	.....	.....	0.02	0.5	cloudy.
3	28.88	733.5	28.90	734.0	42.0	5.6	96	se.	7	3.1	.....	0	8 n	.....	.....	0.30	7.0	light rain.
4	29.71	754.6	29.73	755.1	36.5	2.5	74	nw.	12	5.4	.....	0	4 k	.....	.....	0.04	1.0	fair.
5	29.59	751.6	29.61	752.1	43.0	6.1	93	s.	4	1.8	.....	.....	10 n	.....	.....	0	0	cloudy.
6	29.72	754 9	29.74	755.4	32.0	0.0	100	calm	0	0	.....	0	fog	.....	.....	0.17	4.3	clear.
7	29.48	748.8	29.50	749.3	41.0	5.0	65	sw.	30	13.4	.....	0	5 k	.....	sw.	0.21	5.3	fair.
8	29.81	757.2	29.83	757.7	40.2	4.6	82	nw.	12	5.4	.....	.....	10 kn	.....	.....	0.16	4.1	cloudy.
9	29.86	758.4	29.88	758.9	39.7	4.3	97	sw.	7	3.1	.....	0	2 k	.....	.....	0	0	clear.
10	29.45	748.0	29.47	745.8	34.5	1.4	95	w.	2	0.9	.....	0	1 k	.....	.....	inap.	inap.	clear.
11	29.63	752.6	29.65	753.1	39.0	3.9	73	sw.	8	3.6	.....	5 ck	3 k	.....	.....	0	0	cloudy.
12	29.11	739.4	29.13	739.9	40.0	4.4	98	nw.	22	9.8	.....	.....	10 n	.....	.....	0.10	2.5	light rain.
13	29.51	749.5	29.53	750.0	37.0	2.7	79	s.	7	3.1	.....	0	9 k	.....	sw.	0.03	0.8	cloudy.
14	29.21	741.9	29.23	742.4	30.9	— 0.6	99	n.	35	15.6	.....	.....	10 k;n	.....	n.	0.11	2.8	cloudy.
15	29.38	746.2	29.40	746.7	33.0	0.6	84	nw.	43	19.2	.....	0	8 k	.....	nw.	0	0	cloudy.
16	29.24	742.7	29.26	743.2	33.5	0.8	96	nw.	19	8.5	.....	.....	10 n	.....	.....	inap.	inap.	sleeting.
17	29.48	748.8	29.50	749.3	33.9	1.1	80	w.	4	1.8	.....	0	8 k;n	.....	sw;w.	0	0	cloudy.
18	29.60	751.8	29.62	752.3	39.0	3.9	85	s.	9	4.0	.....	.....	10 k;n	.....	s.	0	0	cloudy.
19	29.15	740.4	29.17	740.9	32.9	0.5	99	nw.	25	11.2	.....	.....	10 n	.....	.....	0.32	8.1	sleeting.
20	29.82	757.4	29.84	757.9	39.9	4.4	65	w.	17	7.6	.....	0	9 k	.....	sw.	0	0	cloudy.
21	29.96	761.0	29.98	761.5	42.0	5.6	95	sw.	6	2.7	.....	.....	10 n:fg	.....	sw.	0	0	cloudy.
22	29.82	757.4	29.84	757.9	34.9	1.6	84	n.	11	4.9	.....	.....	10 n	.....	.....	0.06	1.5	cloudy.
23	29.94	760.5	29.96	761 0	32.0	0.0	99	ne.	7	3.1	.....	.....	10 n	.....	.....	0	0	cloudy.
24	29.14	740.1	29.16	740.7	41.0	5.0	82	sw.	23	10.3	.....	0	4 n	.....	.....	0.38	9.7	fair
25	29.51	749.5	29.53	750.0	35.0	1.7	69	sw.	29	13.0	.....	0	8 n	.....	w.	0.02	0.5	cloudy.
26	29.63	752.6	29.65	753.1	34.9	1.6	79	sw.	13	5.8	.....	0	4 k	.....	.....	0	0	fair.
27	29.90	759.4	29.92	760.0	32.9	0.5	87	calm	0	0	.....	0	7 k	.....	.....	inap.	inap.	fair.
28	30.09	764.3	30.11	764.8	35.7	2.1	80	sw.	7	3.1	.....	0	4 k	.....	sw.	0	0	fair.
29	29.86	758.4	29.88	758.9	41.0	5.0	92	s.	14	6.3	.....	.....	10 n	.....	s.	0	0	threatening.
30	29.43	747.5	29.45	748.0	32.0	0.0	99	nw.	35	15.6	.....	.....	10 n	.....	.....	0.60	15.2	snowing.
31	30.01	762.2	30.03	762.7	29.9	— 1.2	73	nw.	12	5.4	.....	0	8 k;n	.....	.....	inap.	inap.	cloudy.
Mean	29.61	752.1	29.63	752.6	37.0	2.8	87.0	.....	14.4	6.4	.....	.....	7.3	.....	.....	2.52	64.0	
November 1	30.08	764.0	30.10	764.5	35.5	1.9	64	sw.	10	4.5	.....	0	8 n	.....	sw.	0	0	cloudy.
2	29.44	747.8	29.46	748.3	39.0	3.9	100	sw.	4	1.8	.....	.....	fog	.....	.....	0.42	10.7	foggy.
3	29.30	744.2	29.32	744.7	35.9	2.2	88	s.	6	2.7	.....	.....	fog	.....	.....	0.20	5.1	light rain.
4	30.04	763.0	30.06	763.5	27.9	— 2.3	87	sw.	5	2.2	.....	0	0	.....	.....	0.11	2.8	clear.
5	29.89	759.2	29.91	759.7	36.2	2.3	97	s.	14	6.3	.....	.....	10 n	.....	.....	0.03	0.8	cloudy.
6	30.02	762.5	30.04	763.0	29.2	— 1.6	75	nw.	24	10.7	.....	0	4 k	.....	nw.	0.17	4.3	fair.
7	30.05	763.3	30.07	763.8	28.2	— 2.1	89	s.	11	4.9	.....	0	5 k	.....	s.	0	0	fair.
8	30.21	767 3	30.23	767.8	24.0	— 4.4	85	nw.	10	4.5	.....	0	2 k	.....	.....	inap.	inap.	clear.
9	30.48	774.2	30.50	774.7	23.0	— 5.0	87	ne.	5	2.2	.....	.....	10 n	.....	.....	0	0	cloudy.
10	30.24	768.1	30.26	768.6	37.0	2.8	87	sw.	30	13.4	.....	.....	10 s; n	.....	w;sw.	0.01	0.3	cloudy.
11	29.93	760.2	29.95	760.7	34.9	1.6	98	ne.	6	2.7	.....	.....	fog	.....	.....	0.05	1.3	cloudy.
12	30.09	764 3	30.11	764.8	24.0	— 4.4	73	n.	23	10.3	.....	.....	10 n	.....	.....	0.04	1.0	cloudy.
13	30.32	770.1	30.34	770.6	18.0	— 7.8	98	n.	17	7.6	.....	.....	10 n	.....	.....	0	0	cloudy.
14	30.15	765.8	30.17	766.3	22.8	— 5.1	100	calm	0	0	.....	.....	10 n	.....	.....	0	0	cloudy.
15	29.75	755.6	29.77	756.1	32.0	0.0	99	se.	6	2.7	.....	3 ck	4 k	sw.	.....	0.04	1.0	fair.
16	28.76	730.5	28.78	731.0	32.0	0.0	99	ne.	38	17.0	.....	.....	10 n	.....	.....	0.01	0.3	snowing.
17	29.13	739.9	29.15	740.4	28.0	— 2.2	94	nw.	18	8.0	.....	.....	10 n	.....	.....	0.15	3.8	cloudy.
18	29.45	748.0	29.47	748.5	25.1	— 3.8	87	n.	12	5.4	.....	.....	10 n	.....	.....	inap.	inap.	cloudy.
19	29.82	757.4	29.84	757.9	28.8	— 1.8	73	w.	12	5.4	.....	0	5 k	.....	w.	inap.	inap.	fair.
20	30.01	762.2	30.03	762.7	26.3	— 3.2	83	se.	8	3.6	.....	1 cs	5 k;n	.....	.....	0	0	fair.
21	29.94	760.5	29.96	761.0	35.3	1.8	85	se.	6	2.7	.....	0	8 n	.....	.....	0.01	0.3	cloudy.
22	30.07	763.8	30.09	764.3	36.1	2.3	78	se.	11	4.9	.....	.....	10 n	.....	.....	0.02	0.5	sleeting.
23	30.13	765.3	30.15	765.8	41.0	5.0	72	s.	13	5.8	.....	0	9 n	.....	.....	0.16	4.1	cloudy.
24	29.75	755.6	29.77	756.1	35.0	1.7	84	se.	4	1.8	.....	.....	10 n	.....	.....	0.10	2.5	sleeting.
25	29.67	753.6	29.69	754.1	34.0	1.1	60	sw.	14	6.3	.....	.....	10 n	.....	.....	0.14	3.6	cloudy.
26	29.77	756.1	29.79	756.7	29.1	— 1.6	85	sw.	23	10.3	.....	0	4 k	.....	sw.	0	0	fair.
27	29.95	760.7	29.97	761.2	29.1	— 1.6	86	ne.	1	0.4	.....	.....	10 n	.....	.....	0.06	1.5	snowing.
28	29.54	750.3	29.56	750.8	33.4	0.8	83	ne.	16	7.2	.....	.....	fog	.....	.....	0.27	6.9	snowing.
29	29.34	745.2	29.36	745.7	33.1	0.6	86	ne.	28	12.5	.....	.....	10 n	.....	.....	0.08	2.0	sleeting.
30	29.45	748.0	29.47	748.5	32.9	0.5	85	ne.	31	13.9	.....	.....	10 n	.....	.....	0.09	2.3	light snow.
Mean	29.83	757.7	29.85	758.2	30.9	— 0.6	85.6	.....	13.5	6.0	.....	.....	6.8	.....	.....	2.16	54.9	
December 1	29.95	760.7	29.97	761.2	28.1	— 2.2	88	ne.	20	8.9	.....	0	8 n	.....	.....	0	0	cloudy.
2	29.99	761.7	30.01	762.2	26.4	— 3.1	84	ne.	12	5.4	.....	0	4 k	.....	.....	0.01	0.3	fair.
3	30.16	766.1	30.18	766.6	14.8	— 9.6	61	ne.	6	2.7	.....	0	3 k	.....	.....	0	0	clear.
4	30.02	762.5	30.04	763.0	16.0	— 8.9	83	ne.	2	0.9	.....	0	3 n	.....	.....	inap.	inap.	clear.
5	29.77	756.1	29.79	756.7	28.0	— 2.2	77	ne.	8	3.6	.....	0	7 n	.....	.....	0	0	fair.
6	29.60	751.8	29.62	752.3	30.0	— 1.1	86	ne.	16	7.2	.....	.....	10 n	.....	.....	inap.	inap.	snowing.
7	29.54	750.3	29.56	750 8	29.1	— 1.6	71	e.	8	3.6	.....	0	5 n	.....	.....	0.04	1.0	fair.
8	29.88	758.9	29.90	759.4	28.1	— 2.2	77	e.	7	3.1	.....	3 ck	4 k	.....	.....	0.02	0.5	fair.
9	29.94	760.5	29.96	761.0	29.6	— 1.3	73	e.	8	3.6	.....	0	8 k	.....	.....	0.12	3.0	cloudy.
10	30.10	764.5	30.12	765.0	23.1	— 4.9	85	e.	4	1.8	.....	0	3 k	.....	.....	0	0	clear.
11	29.72	754.9	29.74	755.4	32.3	0.2	85	se.	18	8.0	.....	.....	10 n	.....	.....	0.01	0.3	cloudy.
12	29.27	743.4	29.29	744.0	34.1	1.2	86	s.	14	6.3	.....	.....	10 n	.....	s.	0.49	12.4	sleeting.
13	29.35	745.5	29.37	746.0	32.0	0.0	98	se.	7	3.1	.....	0	9 k;n	.....	sw;s.	0.10	2.5	cloudy.
14	29.47	748.5	29.49	749.0	33.1	0.6	76	sw.	16	7.2	.....	0	6 k	.....	sw.	0.07	1.8	fair.
15	29.68	753.9	29.70	754.4	15.1	— 9.4	83	e.	5	2.2	.....	6 k	3 n	sw.	.....	0.02	0.5	cloudy.
16	29.56	750.8	29.58	751.3	28.0	— 2.2	86	n.	12	5.4	.....	0	9 k;n	.....	n.	0.01	0.3	cloudy.
17	29.64	752.8	29.66	753.4	30.2	— 1.0	74	n.	14	6.3	.....	0	9 k;n	.....	n.	inap.	inap.	cloudy.
18	29.73	755.1	29.75	755.6	21.6	— 5.8	77	e.	5	2.2	.....	1 cs	3 k	sw.	.....	0	0	fair.
19	29.29	744.0	29.31	744.5	32.0	0.0	86	ne.	25	11.2	.....	.....	10 n	.....	.....	0.01	0.3	snowing.
20	29.84	757.9	29.86	758.4	30.0	— 1.1	68	sw.	32	14.3	.....	0	8 k;n	.....	sw.	0.08	2.0	cloudy.
21	30.00	762.0	30.02	762.5	34.2	1.2	59	e.	17	7.6	.....	0	5 n	.....	.....	0.02	0.5	fair.
22	29.23	742.4	29.25	742.9	36.9	2.7	94	e.	18	8.0	.....	.....	10 n	.....	.....	0.13	3.3	cloudy.
23	29.20	741.7	29.22	742.2	32.3	0.2	96	nw.	8	3.6	.....	.....	10 n	.....	.....	0.45	11.4	snowing.
24	29.39	746.5	29.41	747.0	30.0	— 1.1	98	e.	2	0.9	.....	0	4 k	.....	.....	0	0	fair.
25	29.24	742.7	29.26	743.2	26.0	— 3.3	85	e.	2	0.9	.....	0	5 k	.....	.....	0.04	1.0	fair.
26	28.66	728.0	28.68	728.5	34.1	1.2	74	sw.	37	16.5	.....	0	7 k	.....	sw.	0 07	1.8	fair.
27	28.90	734.0	28.92	734.6	19.2	— 7.1	96	e.	2	0.9	.....	0	5 k	.....	ne.	0.02	0.5	fair.
28	28.72	729.5	28.74	730.0	31.2	— 0.4	96	n.	42	18.8	.....	.....	10 n	.....	.....	.....	.....	snowing.
29	29.03	737.3	29.05	737.9	29.2	— 1.6	83	n.	30	13.4	.....	.....	10 n	.....	n.	0	0	cloudy.
30	29.21	741.9	29.23	742.4	30.0	— 1.1	79	ne.	23	10.3	.....	.....	10 n	.....	.....	inap.	inap.	cloudy.
31	29.25	742.9	29.27	743.4	22.6	— 5.2	82	n.	11	4.9	.....	.....	10 n	.....	.....	inap.	inap.	cloudy.
Mean	29.53	750.0	29.55	750.6	28.0	— 2.2	82.3	.....	13.9	6.2	.....	.....	7.0	.....	.....	1.71	43.4	

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

DATE.	Barometer. Corrected for instrumental error and temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount.		Clouds. Direction.		Rainfall or melted snow in past 24 hours.		WEATHER
												Upper.	Lower.	Upper	Lo'er			
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles per hour	Metrs pr sec.	0–10	0–10	0–10	From	From	Inch.	Mill.	
1883.																		
September 1	29.85	758.3	29.90	759.5	38.7	3.7	87	ne.			2		0					
2	29.70	754.3	29.74	755.5	34.7	1.5	82	n.			2		10					hazy.
3	29.50	749.2	29.54	750.4	34.5	1.4	82	calm			0		8					snowing.
4	29.48	748.9	29.53	750.1	34.5	1.4	76	ne.			2		8					
5	29.22	742.2	29.27	743.4	36.9	2.7	82	calm			0		10					
6	29.54	750.2	29.58	751.4	36.3	2.4	84	calm			0		8					
7	29.17	740.9	29.22	742.1	34.5	1.4	82	n.			4		8					
8	29.16	740.7	29.21	741.9	36.5	2.5	75	e.			4		3					
9	29.34	745.3	29.39	746.5	36.5	2.5	75	e.			2		6					
10	29.43	747.5	29.48	748.7	35.4	1.9	82	n.			2		8					
11	29.56	750.9	29.61	752.1	34.5	1.4	82	n.			6		1					
12	29.63	752.7	29.68	753.9	32.7	0.4	100	n.			2		3					
13	29.15	748.0	29.50	749.2	31.8	— 0.1	100	ne.			2		9					
14	29.72	757.4	29.87	758.6	32.9	0.5	92	e.			2		9					
15	29.99	761.8	30.04	763.0	36.5	2.5	100	e.			4		2					
16	29.93	760.2	29.98	761.4	36.9	2.7	94	e.			2		0					
17	30.02	762.4	30.06	763.6	40.1	4.5	90	e.			4		0					
18	29.91	759.6	29.95	760.8	36.5	2.5	82	e.			2		2					
19	29.93	760.1	29.97	761.3	41.2	5.1	89	sw.			6		9					raining.
20	30.10	764.6	30.15	765.8	38.7	3.7	95	sw.			4		10					
21	29.88	758.9	29.93	760.1	42.6	5.9	88	sw.			7		10					raining.
22	29.82	757.5	29.87	758.7	35.4	1.9	86	w.			2		9					
23	29.66	753.3	29.71	754.5	32.7	0.4	87	n.			2		3					
24	29.55	750.6	29.60	751.8	28.6	— 1.9	96	e.			2		2					
25	29.56	750.8	29.61	752.0	29.7	— 1.3	84	e.			2		8					snowing.
26	29.51	749.6	29.56	750.8	31.5	— 0.3	89	e.			2		8					
27	29.05	738.0	29.10	739.2	30.9	— 0.6	100	calm			0		3					
28	29.54	750.4	29.59	751.6	39.9	4.4	100	se.			4		9					
29	29.58	759.0	29.93	760.2	39.7	4.3	74	calm			0		5					
30	29.86	758.5	29.91	759.7	36.3	2.4	82	sw.			6		8					
Mean	29.63	752.7	25.68	753.9	35.6	2.0	87						6.0					
October 1	29.93	760.2	29.98	761.4	33.6	0.9	96	n.			2		10					snowing.
2	30.08	764.1	30.13	765.3	31.8	— 0.1	90	n.			2		10					
3	29.26	743.3	29.31	744.5	25.7	— 3.5	98	e.			2		3					
4	29.28	743.7	29.33	744.9	36.1	2.3	82	sw.			6		10					raining.
5	29.32	744.8	29.37	746.0	30.9	— 0.6	81	ne.			4		4					
6	29.46	748.2	29.50	749.4	32.2	0.1	89	sw.			4		10					snowing.
7	29.62	752.4	29.67	753.6	31.1	— 0.5	96	se.			2		10					
8	29.65	753.0	29.69	754.2	21.0	— 6.1	100	e.			2		0					
9	29.95	760.8	30.00	762.0	21.0	— 6.1	100	e.			2		10					snowing.
10	30.07	763.7	30.11	764.9	21.9	— 5.6	100	e.			2		8					
11	29.80	757.0	29.85	758.2	21.9	— 5.6	100	e.			2		6					
12	29.84	758.0	29.89	759.2	21.9	— 5.6	100	e.			2		6					
13	29.84	757.8	29.88	759.0	22.1	— 5.5	100	e.			2		6					
14	29.56	750.7	29.60	751.9	21.9	— 5.6	100	calm			0		8					
15	29.43	747.4	29.47	748.6	23.7	— 4.6	100	e.			4		9					
16	29.27	743.5	29.32	744.7	22.1	— 5.5	100	e.			2		7					
17	29.56	750.9	29.61	752.1	19.6	— 6.9	100	e.			2		5					
18	29.65	753.1	29.70	754.3	16.7	— 8.5	88	e.			2		0					
19	29.13	747.5	29.48	748.7	22.8	— 5.1	64	e.			4		8					
20	28.99	736.4	29.04	737.6	29.1	— 1.6	100	sw.			7		10					snowing.
21	29.33	741.9	29.37	740.1	25.3	— 3.7	91	sw.			4		10					snowing.
22	29.64	752.8	29.69	754.0	24.3	— 4.3	95	sw.			4		9					snowing.
23	29.67	753.6	29.72	754.8	20.3	— 6.5	73	e.			2		0					
24	29.47	748.6	29.52	749.8	27.9	— 2.3	75	e.			2		8					
25	29.50	749.2	29.54	750.4	22.8	— 5.1	90	e.			2		3					
26	29.58	751.4	29.63	752.6	22.1	— 5.5	61	ne.			2		9					
27	29.75	755.7	29.80	756.9	19.6	— 6.9	84	ne.			2		8					
28	30.02	762.6	30.07	763.8	20.7	— 6.3	93	e.			2		9					
29	29.79	756.7	29.84	757.9	15.6	— 9.1	100	e.			2		4					
30	29.40	746.8	29.45	748.0	20.3	— 6.5	73	calm			0		0					
31	29.39	746.5	29.44	747.7	23.9	— 4.5	86	sw.			4		4					
Mean	29.60	751.8	29.65	753.0	24.3	— 4.3	90						6.6					
November 1	29.34	745.1	29.38	746.3	20.3	— 6.5		calm			0		7					
2	29.00	751.8	29.65	753.0	22.1	— 5.5		calm			0		8					
3	29.31	744.4	29.35	745.6	13.8	—10.1		e.			2		0					
4	29.36	745.8	29.41	747.0	19.2	— 7.1		e.			2		2					
5	29.33	745.0	29.38	746.2	18.9	— 7.3		e.			2		6					
6	29.17	740.8	29.21	742.0	16.5	— 8.6		e.			2		0					
7	29.40	746.8	29.45	748.0	19.9	— 6.7		n.			4		6					
8	29.02	752.4	29.67	753.6	14.9	— 9.5		n.			2		10					snowing.
9	29.95	761.0	30.01	762.2	10.9	—11.7		e.			2		0					
10	29.46	748.2	29.50	749.4	16.5	— 8.6		e.			2		9					
11	29.46	748.2	29.50	749.4	25.5	— 3.6		sw.			4		10					snowing.
12	29.60	751.7	29.64	752.9	20.1	— 6.6		wsw.			4		9					snowing.
13	29.24	742.6	29.28	743.8	17.8	— 7.9		calm			0		9					
14	29.37	746.1	29.42	747.3	17.8	— 7.9		n.			6		10					snowing.
15	29.37	745.9	29.41	747.1	21.7	— 5.7		ne.			2		8					
16	28.95	735.4	29.00	736.6	21.0	— 6.1		n.			4		10					snowing.
17	29.24	742.7	29.29	743.9	19.9	— 6.7		n.			6		10					snowing.
18	29.00	736.5	29.04	737.6	17.4	— 8.1		calm			0		9					
19	29.33	745.0	29.38	746.2	17.4	— 8.1		e.			2		8					
20	29.61	752.1	29.66	753.3	13.5	—10.3		e.			4		7					
21	29.80	757.0	29.85	758.2	10.6	—11.9		e.			2		10					snowing.
22	29.71	754.7	29.76	755.9	10.2	—12.1		e.			2		10					
23	29.72	754.9	29.77	756.1	9.1	—12.7		ne.			2		7					
24	29.78	756.5	29.83	757.7	5.9	—14.5		ne.			2		6					
25	29.97	761.2	30.02	762.4	1.2	—17.1		e.			2		2					
26	30.09	764.3	30.14	765.5	4.1	—15.5		e.			2		8					
27	30.22	767.5	30.26	768.7	3.9	—15.6		e.			2		0					
28	29.44	747.7	29.48	748.9	26.1	— 3.3		e.			4		10					
29	29.47	748.5	29.52	749.7	24.6	— 4.1		e.			4		2					
30	29.54	750.2	29.58	751.4	15.6	— 9.1		nw.			4		10					snowing.
Mean	29.52	749.7	29.56	750.9	15.8	— 9.0							6.8					

UPERNAVIK, GREENLAND—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount. Upper.	Clouds. Amount. Lower.	Clouds. Direction. Up'er	Clouds. Direction. Lo'er	Rainfall in past 24 hours.		WEATHER.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metrs prsec.	0-10	0-10	0-10	From	From	Inch.	Mill.	
1883																		
December 1	29.43	747.5	29.48	748.7	6.3	—14.3		wsw.			6		10					snowing.
2	30.07	763.7	30.11	764.9	5.2	—14.9		n.			2		7					
3	30.17	766.4	30.22	767.6	3.9	—15.6		e.			4		0					
4	29.63	752.5	29.67	753.7	28.2	— 2.1		e.			2		10					snowing.
5	29.73	755.1	29.78	756.3	14.7	— 9.6		nw.			2		10					snowing.
6	29.15	740.3	29.19	741.5	32.7	0.4		se.			6		10					snowing.
7	29.35	745.5	29.40	746.7	16.0	— 8.9		sw.			6		8					snowing.
8	29.57	751.1	29.62	752.3	— 0.2	—17.9		n.			4		10					snowing.
9	29.63	752.7	29.68	753.9	— 2.4	—19.1		ne.			2		10					hazy.
10	29.44	747.7	29.48	748.9	— 8.9	—22.7		calm			0		0					
11	29.62	752.3	29.67	753.5	—11.4	—24.1		calm			0		0					
12	29.85	758.2	29.90	759.4	— 9.6	—23.1		calm			0		2					
13	29.48	748.8	29.53	750.0	—10.5	—23.6		calm			0		0					
14	29.63	752.7	29.68	753.9	— 7.1	—21.7		n.			2		9					
15	29.94	760.4	29.98	761.6	— 6.7	—21.5		calm			0		4					
16	29.02	737.0	29.06	738.2	3.9	—15.6		calm			0		2					
17	29.12	739.7	29.17	740.9	10.2	—12.1		sw.			6		10					snowing.
18	29.89	759.3	29.94	760.5	1.9	—16.7		sw.			6		10					snowing.
19	29.14	740.2	29.19	741.4	— 9.2	—22.9		e.			2		0					
20	29.65	753.1	29.70	754.3	— 8.5	—22.5		e.			2		2					
21	29.56	750.7	29.60	751.9	— 9.2	—22.9		calm			0		0					
22	29.72	754.9	29.77	756.1	— 9.6	—23.1		sw.			2		2					
23	29.63	752.5	29.67	753.7	—17.1	—27.3		calm			0		0					
24	29.56	750.8	29.61	752.0	—19.5	—28.6		calm			0		0					
25	29.84	757.8	29.88	759.0	—17.5	—27.5		calm			0		0					
26	30.20	767.0	30.24	768.2	—16.1	—26.7		calm			0		2					
27	30.18	766.5	30.22	767.7	—22.2	—30.1		e.			2		0					
28	30.05	763.2	30.10	764.4	—25.8	—32.1		calm			0		0					
29	30.18	766.6	30.23	767.8	—25.8	—32.1		calm			0		0					
30	30.08	764.1	30.13	765.3	—26.5	—32.5		e.			2		0					
31	30.25	768.4	30.30	769.6	—23.9	—30.9		e.			2		0					
Mean	29.70	754.4	29.75	755.6	— 5.3	—20.7							3.8					
1884.																		
January 1	30.45	773.3	30.49	774.5	—14.1	—25.6		e.			4		0					
2	30.44	773.2	30.49	774.4	—16.1	—20.7		calm			0		0					
3	30.42	772.6	30.47	773.8	—20.4	—29.1		e.			2		0					
4	30.09	764.2	30.13	765.4	—21.3	—29.6		e.			4		1					
5	29.26	743.3	29.31	744.5	—16.8	—27.1		e.			2		1					
6	28.94	735.1	28.99	736.3	— 3.1	—19.5		e.			2		2					
7	29.13	740.0	29.18	741.2	14.2	— 9.9		sw.			4		10					snowing.
8	28.67	728.3	28.72	729.5	— 5.1	—20.6		calm			0		3					
9	29.09	738.8	29.13	740.0	— 8.7	—22.6		e.			2		7					hazy.
10	29.94	760.5	29.99	761.7	—15.0	—26.1		sw.			2		4					
11	29.50	749.2	29.54	750.4	—13.9	—25.5		e.			2		2					
12	29.05	737.8	29.10	739.0	— 2.4	—19.1		calm			0		10					hazy.
13	28.98	736.2	29.03	737.4	5.7	—14.6		calm			0		6					hazy.
14	29.58	751.4	29.63	752.6	— 2.7	—19.3		e.			2		8					
15	29.84	757.8	29.88	759.0	— 4.2	—20.1		e.			4		9					hazy.
16	29.41	746.9	29.45	748.1	—12.8	—21.9		e.			2		0					
17	29.50	749.2	29.54	750.4	—16.4	—26.9		e.			2		0					
18	29.35	745.4	29.39	746.6	—20.4	—29.1		calm			0		0					
19	29.48	748.7	29.52	749.9	—21.3	—29.6		e.			2		0					
20	29.70	754.3	29.74	755.5	—18.2	—27.9		e.			2		0					hazy.
21	29.71	754.5	29.75	755.7	—26.3	—32.4		e.			2		0					
22	29.61	752.0	29.65	753.2	—25.4	—31.9		e.			2		0					hazy.
23	29.76	756.0	29.81	757.2	—28.5	—33.6		e.			2		0					
24	29.70	754.4	29.75	755.6	—33.0	—36.1		calm			0		0					
25	29.72	754.8	29.76	756.0	—29.4	—34.1		e.			2		0					
26	29.61	752.2	29.66	753.4	—30.1	—34.5		calm			0		0					
27	29.69	754.1	29.74	755.3	—28.5	—33.6		calm			0		0					
28	29.85	758.1	29.89	759.3	—22.2	—30.1		calm			0		0					
29	29.74	755.3	29.78	756.5	—22.5	—30.3		e.			2		2					
30	29.49	749.1	29.54	750.3	— 4.5	—20.3		calm			0		8					hazy.
31	29.24	742.7	29.29	743.9	0.6	—14.1		sw.			6		10					snowing.
Mean	29.58	751.3	29.63	752.5	—14.8	—26.0							2.7					

JACOBSHAVN, GREENLAND (N. 69° 13′, W. 50° 55′).

DATE.	Barometer. Corrected for instrumental error and temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount. Upper.	Clouds. Amount. Lower.	Clouds. Direction. Up'er	Clouds. Direction. Lo'er	Rainfall in past 24 hours.		WEATHER.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metrs prsec.	0-10	0-10	0-10	From	From	Inch.	Mill.	
1884.																		
January 1	30.35	770.8	30.39	772.0	—22.5	—30.3		calm			0		0					
2	30.21	767.3	30.26	768.5	—26.3	—32.4		calm			0		3					
3	30.13	765.3	30.18	766.5	—14.8	—26.0		calm			0		5					
4	29.72	754.9	29.77	756.1	9.1	—12.7		calm			0		2					
5	29.00	736.6	29.05	737.8	31.6	— 0.2		calm			0		6					
6	28.98	736.2	29.03	737.4	6.4	—14.2		calm			0		3					
7	29.49	749.1	29.54	750.3	8.1	—13.3		e.			4		5					
8	28.89	733.8	28.94	735.0	— 1.1	—18.4		e.			4		7					
9	29.87	758.7	29.92	759.9	—10.5	—23.6		calm			0		2					
10	29.96	761.0	30.01	762.2	—21.6	—29.8		calm			0		1					
11	29.04	737.7	29.09	738.9	8.8	—12.9		ne.			4		5					
12	29.13	739.9	29.18	741.1	23.4	— 4.8		s.			4		10					
13	29.04	737.6	29.09	738.8	4.1	—15.5		s.			4		9					
14	29.55	750.6	29.60	751.8	— 4.4	—20.2		calm			0		5					
15	29.64	752.9	29.69	754.1	— 0.1	—17.8		calm			0		2					
16	29.04	737.7	29.09	738.9	—15.3	—26.3		n.			4		4					
17	29.44	747.8	29.49	749.0	—14.1	—25.6		calm			0		3					
18	29.35	745.6	29.40	746.8	—21.3	—26.6		calm			0		2					
19	29.45	747.9	29.49	749.1	—31.0	—35.0		calm			0		0					
20	29.74	755.3	29.78	756.5	—22.7	—30.4		calm			0		3					
21	29.67	753.6	29.72	754.8	—32.8	—36.0		calm			0		0					
22	29.61	752.2	29.66	753.4	—37.3	—38.5		calm			0		0					
23	29.74	755.3	29.78	756.5	—37.3	—38.5		calm			0		1					
24	29.71	754.6	29.70	755.8	—38.2	—39.0		calm			0		0					
25	29.62	752.4	29.67	753.6	—37.3	—38.5		calm			0		0					
26	29.59	751.6	29.64	752.8	—39.1	—39.5		calm			0		3					
27	29.65	753.1	29.70	754.3	—34.6	—37.0		calm			0		0					
28	29.82	757.4	29.87	758.6	—38.2	—39.0		calm			0		0					
29	29.58	751.3	29.63	752.5	—40.0	—40.0		calm			0		2					
30	29.56	750.8	29.61	752.0	—16.2	—26.8		calm			0		4					
31	29.38	746.2	29.43	747.4	5.7	—14.6		calm			0		9					
Mean	29.55	750.5	29.60	751.7	—14.8	—26.0							3.1					

SAINT PAUL DE LOANDO (S. 8° 49′, E. 13° 07′).

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Barometer. Corrected for instrumental error and temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Wind. Velocity. Miles perhour	Wind. Velocity. Metrs pr sec.	Wind. Force 0–10	Clouds. Amount. Upper. 0–10	Clouds. Amount. Lower. 0–10	Clouds. Direction. Up'er From	Clouds. Direction. Lo'er From	Rainfall or melted snow in past 24 hours. Inch.	Rainfall or melted snow in past 24 hours. Mill.	WEATHER.
1883.																		
July 1	29.83	757.6	30.03	762.8	74.3	23.5	89	SSW.			1		2	SE.		0	0	
2	29.82	757.5	30.03	762.7	74.7	23.7	83	S.			1		2	SW.		0	0	
3	29.83	757.7	30.04	762.9	73.4	23.0	95	NE.			1		8			0	0	
4	29.82	757.4	30.02	762.6	74.1	23.4	88	NW.			1		0			0	0	
5	29.79	756.6	29.99	761.7	73.8	23.2	88	NW.			2		1			0	0	
6	29.76	756.0	29.97	761.1	71.8	22.1	90	NW.			1		0			0	0	
7	29.82	757.4	30.02	762.5	74.7	23.7	81	W.			1		0			0	0	
8	29.85	758.2	30.05	763.3	75.2	24.0	82	WNW.			1		0			0	0	
9	29.87	758.8	30.08	764.0	73.4	23.0	90	WNW.			1		0			0	0	
10	29.87	758.7	30.07	763.8	73.4	23.0	89	NNW.			1		2	SE.		0	0	
11	29.83	757.6	30.03	762.7	74.5	23.6	87	NE.			2		10			0	0	
12	29.85	758.1	30.05	763.3	73.4	23.0	88	NW.			1		10			0	0	
13	29.81	757.2	30.02	762.4	70.0	21.1	94	NNW.			2		0			0	0	
14	29.82	757.5	30.03	762.7	75.2	24.0	87	WNW.			1		0			0	0	
15	29.83	757.7	30.04	762.9	74.5	23.6	87	NW.			2		7			0	0	
16	29.84	758.0	30.05	763.2	71.1	21.7	92	NW.			2		2	SE.		0	0	
17	29.87	758.6	30.07	763.8	72.7	22.6	91	WSW.			2		10			0	0	
18	29.84	757.9	30.04	763.1	71.4	21.9	92	NW.			1		8			0	0	
19	29.83	757.7	30.04	762.9	69.1	20.6	91	NE.			1		10			0	0	
20	29.85	758.2	30.06	763.4	72.0	22.2	93	NNW.			1		4	SE.		0	0	
21	29.86	758.5	30.07	763.7	71.8	22.1	94	NNW.			1		2	SE.		0	0	
22	29.88	759.0	30.09	764.2	67.3	19.6	99	W.			2		10			0	0	
23	29.84	758.0	30.05	763.3	68.0	20.0	98	NNW.			1		10			0	0	
24	29.81	757.2	30.02	762.4	71.4	21.9	93	N.			1		10			0	0	
25	29.80	756.9	30.00	762.1	74.5	23.6	92	W.			2		1	SE.		0	0	
26	29.80	756.8	30.00	762.0	71.2	21.8	93	NW.			2		1	SSE.		0	0	
27	29.80	756.8	30.00	762.0	69.1	20.6	98	WNW.			1		10			0	0	
28	29.76	756.0	29.97	761.2	72.1	22.3	92	NW.			1		9			0	0	
29	29.76	756.0	29.97	761.2	72.7	22.6	89	W.			1		3	SE.		0	0	
30	29.82	757.3	30.02	762.5	72.0	22.2	86	NE.			1		10			0	0	
31	29.80	756.8	30.00	762.0	72.5	22.5	92	NE.			1		10			0	0	
Mean	29.82	757.5	30.03	762.7	72.3	22.4	90.4				1.3		4.9			0	0	
August 1	29.77	756.1	29.97	761.3	74.1	23.4	88	N.			1		2	SE.		0	0	
2	29.76	755.8	29.90	760.9	72.3	22.4	93	W.			2		0			0	0	
3	29.77	756.2	29.97	761.3	72.0	22.2	94	NW.			1		10			0	0	
4	29.80	756.8	30.00	762.0	71.6	22.0	91	NNE.			1		10			0	0	
5	29.78	756.4	29.98	761.5	75.6	24.2	90	NW.			1		10			0	0	
6	29.79	756.7	29.99	761.8	74.1	23.4	95	WNW.			1		10			0	0	
7	29.82	757.5	30.03	762.7	71.2	21.8	95	NNW.			1		10			0	0	
8	29.82	757.3	30.02	762.5	71.4	21.9	97	N.			1		10			0	0	
9	29.81	757.2	30.01	762.3	71.1	21.7	92	N.			1		10			0.016	0.4	
10	29.77	756.2	29.98	761.4	68.7	20.4	97	NW.			1		10			0	0	
11	29.78	756.5	29.99	761.7	71.4	21.9	90	W.			1		9			0	0	
12	29.84	757.8	30.04	763.0	72.1	22.3	88	NW.			1		10			0	0	
13	29.84	757.9	30.04	763.1	69.8	21.0	94	W.			1		10			0	0	
November 1	29.72	754.8	29.91	759.5	78.8	26.0	92	W.			2		3	SE.		0	0	
2	29.70	754.4	29.90	759.5	77.7	25.4	96	W.			2		3	S.		0	0	
3	29.74	755.3	29.94	760.4	75.7	24.3	96	W.			2		10			0	0	
4	29.73	755.2	29.93	760.3	78.1	25.6	92	W.			2		9			0	0	
5	29.71	754.5	29.91	759.6	80.6	27.0	87	W.			1		7			0	0	
6	29.71	754.6	29.91	759.7	76.5	24.7	97	WSW.			2		10			0	0	
7	29.73	755.2	29.93	760.3	82.2	27.9	83	WNW.			2		6	SSE.		0	0	
8	29.72	754.9	29.92	760.0	79.5	26.4	93	W.			3		6	SE.		0	0	
9	29.73	755.1	29.93	760.2	78.3	25.7	88	W.			2		10			0	0	
10	29.74	755.3	29.93	760.3	78.6	25.9	92	WNW.			2		5	SSE.		0	0	
11	29.72	755.0	29.93	760.1	80.4	26.9	90	NW.			2		7			0	0	
12	29.69	754.1	29.89	759.2	79.2	26.2	92	NNW.			1		9			0	0	
13	29.68	753.9	29.88	759.0	80.2	26.8	91	WNW.			2		4	SSE.		0	0	
14	29.71	754.6	29.91	759.7	78.6	25.9	92	W.			3		10			0	0	
15	29.69	754.0	29.89	759.1	79.3	26.3	92	WNW.			2		2	SE.		0	0	
16	29.65	753.0	29.84	758.0	81.3	27.4	85	WNW.			3		3	SE.		0	0	
17	29.61	752.2	29.82	757.3	79.2	26.2	91	WNW.			3		2	SE.		0	0	
18	29.63	752.6	29.83	757.7	79.2	26.2	93	W.			3		3	S.		0	0	
19	29.67	753.5	29.87	758.6	80.1	26.7	88	NW.			4		10			0	0	
20	29.67	753.6	29.87	758.7	78.6	25.9	96	W.			3		9			0	0	
21	29.63	752.6	29.83	757.6	80.6	27.0	87	W.			4		3	SE.		0	0	
22	29.60	751.7	29.79	756.7	79.5	26.4	78	W.			3		2	SSE.		0	0	
23	29.62	752.3	29.82	757.4	81.0	27.2	67	W.			3		8			0	0	
24	29.59	751.5	29.79	756.6	81.0	27.2	68	W.			4		7			0	0	
25	29.59	751.6	29.79	756.7	78.8	26.0	80	WNW.			3		3	S.		0	0	
26	29.66	753.4	29.86	758.5	78.8	26.0	79	W.			1		10			0	0	
27	29.67	753.6	29.87	758.8	76.6	24.8	90	W.			4		7			0	0	
28	29.68	753.8	29.88	758.9	79.0	26.1	84	W.			4		9			0.031	0.8	
29	29.74	755.3	29.94	760.4	73.8	23.2	96	W.			3		10			0	0	
30	29.73	755.2	29.93	760.3	78.6	25.9	83	WNW.			2		8			0.150	3.8	
Mean	29.68	753.9	29.88	759.0	79.0	26.1	87.9				2.6		6.5			0.181	4.6	

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

REVIEW.

INTERNATIONAL METEOROLOGY FOR JANUARY, 1884.

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

The following description refers to chart ii. for the month of January, 1884, issued with this SUMMARY. This chart continues the series of international charts begun in January, 1877, and exhibits the mean pressure, mean temperature, and prevailing wind-direction over the northern hemisphere, as determined from one observation taken simultaneously each day at 7 a. m., Washington, or 0 h. 8 m. p. m., Greenwich, mean time.

The area of least mean pressure is indicated by the isobar for 29.3 (744.2) and occupies the extreme northern part of Scandinavia, extending thence westward over the Arctic ocean to the longitude of Greenwich. To the westward of the area of barometric minima the mean pressure increases slowly, the isobar for 29.6 (751.8) enclosing Greenland and the ocean southward to the fifty-fifth parallel; this isobar runs eastward along the parallel just mentioned to southern Scandinavia, and thence northeastward over Finland and northwestern Russia to the mouth of the Petchora. The mean pressure increases rapidly over the regions south of 55° north, both over the Atlantic and the European continent. In the North American continent the mean pressure is least over Labrador and Newfoundland, where it ranges from 29.9 (759.4) to 30.0 (762.0); over the lake region, Canada, and the Gulf of Saint Lawrence it ranges from 30.0 (762.0) to 30.1 (764.5). In Asia the mean pressure is least over northwestern Siberia, southern Hindostan, and eastern Japan.

Six distinct areas of barometric maxima are shown on the chart; the first of these is the area of maximum pressure which occupies eastern Siberia, the highest mean being 30.57 (776.5) at Nertschinsk. In the Chinese empire the mean pressure varies from 30.5 (774.7) in the northern districts to 30.15 (765.8) at Amoy, Hong-Kong, and stations on the shores of the China Sea. The next in importance is the high area which occupies the European continent south of the fiftieth parallel and part of northern Africa; the centre of this area appears in the Iberian peninsula, where the mean pressure is 30.4 (772.1). The isobar for 30.3 (769.6) encloses the western part of the Mediterranean, Algeria, Morocco, and the Madeira islands, and thence northeastward over the Bay of Biscay to western and central France, while that for 30.2 (767.1) embraces the Italian peninsula, Austria, the northern districts of France and the Atlantic westward to the Azores. The third area of barometric maxima occupies the Atlantic ocean and is indicated by the isobar for 30.2 (767.1) and stretches from the West Indies eastward along the parallel of 24° north latitude, to about the thirty-fifth meridian west of Greenwich and northward to 35° N., the pressure gradually decreasing in a southwesterly direction from 35° to 30° N. The remaining areas of high pressure (three) are shown in the United States; each of these is enclosed by the isobar for 30.3 (769.6); one covers Louisiana, Arkansas, and the greater part of Texas; one the Missouri valley, and the other the territories of Wyoming, Montana, Idaho, and Utah. In all other parts of the United States the mean pressure ranges from 30.1 (764.5) to 30.29 (769.4).

Compared with the chart for the preceding month, (December, 1883) there has been a general increase of pressure over the United States, the increase being greatest over that part of the country from the Rio Grande valley northward to Dakota. At Cape Mendocino, California; Roseburg, Oregon; Deadwood, Dakota, and Fort Saint Michael's, Alaska, there has been a slight decrease of pressure. On the summit of Mount Washington, New Hampshire, the mean pressure was .05 less than in the preceding month. In Canada there has been an increase of pressure. In Europe, there has been an increase of pressure in France, Germany, Austria and the southern peninsulas, the greatest increase occurring over Italy and Spain. Over the northern peninsulas, the British Isles, and Russia, the pressure has decreased, the greatest departure being in Scandinavia, where it averaged .15 inch. In Algeria there was an increase of about .18 inch. In Asia there has been a general increase except in Hindostan where the pressure was about .03 less than in December. Over the Atlantic ocean south of 50° N., the pressure has increased; north of that parallel there has been a decrease.

Compared with the corresponding month of previous years, the mean atmospheric pressure in January, 1884, was slightly below normal in the north Pacific coast region, New England, and the middle Atlantic States; elsewhere it was above normal, the departures being greatest in the Rio Grande valley. In Canada the mean pressure was above the normal in eastern Quebec and the Maritime Provinces and normal or below in other parts of the Dominion. In Europe the mean pressure was above the normal in the western, (including the British Isles) and southern districts of the continent, and was much below the normal in Russia and in the Scandinavian and Danish peninsulas.

The following table gives the mean pressure and mean temperature, with corresponding departures for January, 1884, in the several countries of the northern hemisphere, compared with the means as determined from observations taken during the last seven years:

Countries.	Mean pressure.			Mean temperature.		
	Jan. mean of 7 (1877–'83) years.	Jan., 1884.	Departure.	Jan. mean of 7 (1877–'83) years.	Jan., 1884.	Departure.
				°	°	°
Algeria	30.18	30.32	+ 0.14	56.9	55.5	− 1.4
Austria	30.18	30.18	normal	33.0	37.4	+ 4.4
British Isles	30.01	30.03	+ 0.02	40.7	45.8	+ 5.1
Denmark	30.04	29.80	− 0.24	32.1	38.7	+ 6.6
France	30.14	30.30	+ 0.16	42.0	46.1	+ 4.1
Germany	30.12	30.08	− 0.04	32.4	39.5	+ 7.1
India*	29.90	30.04	+ 0.08	72.4	70.6	− 1.8
Italy	30.10	30.21	+ 0.11	48.5	47.8	− 0.7
Norway	29.83	29.45	− 0.38	30.1	32.4	+ 2.3
Portugal	30.19	.....	.....	51.9	.....	.....
Russia	30.12	29.85	− 0.27	21.4	24.0	+ 2.6
Spain	30. 7	30.36	+ 0.19	52.3	53.3	+ 1.0
Sweden	29.91	29.55	− 0.36	25.1	26.6	+ 1.5

* Means for six years only.

The accompanying table shows the deviations in pressure and temperature at isolated stations during the month of January, 1884, as compared with the means for seven years:

Stations.	Mean pressure.			Mean temperature.		
	Jan. mean of 7 (1877–83) years.	Jan. 1884.	Departure.	Jan. mean of 7 (1877–83) years.	Jan. 1884.	Departure.
				°	°	°
Gibraltar	30.17	30.36	+ 0.19	59.6	60.6	+ 1.0
Malta, Mediterranean Sea	30.06	30.18	+ 0.12	59.2	56.6	− 2.6
Sandwick Manse, Orkney Islands	29.89	29.62	− 0.27	39.2	41.5	+ 2.3
Bridgetown, Barbadoes	30.01	30.07	+ 0.06	79.9	80.7	+ 0.8
Cape Town, Cape of Good Hope*	.....	.....	.....	79.2	76.5	− 2.7
Fort Napier, Natal, South Africa	29.80	29.90	+ 0.10	78.1	78.8	+ 0.7
Freetown, Sierra Leone*	29.89	29.86	− 0.03	86.0	86.7	+ 0.7
Mauritius, Indian Ocean	29.94	29.88	− 0.06	81.5	80.9	− 0.6
Melbourne, New South Wales	29.97	29.89	− 0.08	62.9	60.9	− 2.0
Nassau, Bahamas*	30.17	30.21	+ 0.04	71.3	69.8	− 1.5
Godthaab, Greenland	29.40	29.49	+ 0.03	15.3	5.9	− 9.4
Stykkisholm, Iceland	29.53	29.34	− 0.19	28.6	28.4	− 0.2
Thorshavn, Färöe Islands	29.73	29.52	− 0.21	38.7	38.1	− 0.6
Zi-Ka-Wei, China	30.38	30.37	− 0.01	34.7	39.4	+ 4.7
Athens, Greece	30.10	30.14	+ 0.04	52.3	49.1	− 3.2
Cagliari, Sardinia, Italy	30.08	30.21	+ 0.13	51.8	55.0	+ 0.2
Tokei, Japan	30.06	30.07	+ 0.01	35.4	35.6	+ 0.2
Angra, Azores	.....	.....	.....	.....	.....	.....
Funchal, Madeira Islands	30.20	30.30	+ 0.10	64.8	63.3	− 1.5
Ponta Delgado, Azores	30.11	30.22	+ 0.11	60.5	61.9	+ 1.4
Archangel, Russia	29.81	29.50	− 0.31	8.6	8.1	− 0.5
Tiflis, Russia	30.20	30.15	− 0.05	38.6	37.4	− 1.2
Astrakhan, Russia	30.22	30.10	− 0.12	24.1	25.7	+ 1.6
Ekaterinburg, Russia	30.11	29.90	− 0.21	5.0	8.8	+ 3.8
Tashkend, Toorkistan, Asia	.....	30.20	.....	.....	36.3	.....
Barnaul, Siberia, Asia	30.41	30.27	− 0.14	1.6	6.6	+ 5.0
Yeniseisk, Siberia, Asia	30.39	30.29	− 0.10	− 7.3	0.3	+ 7.6
Pekin, China	30.40	30.38	− 0.02	22.6	26.2	+ 3.6
Nikolaevsk on the Amoor, Asia	.....	.....	.....	− 8.1	−11.0	− 2.9
San Juan de Puerto Rico, W. I*	30.08	30.11	+ 0.03	75.3	74.3	− 1.0
Beirut, Turkey in Asia	30.10	30.04	− 0.06	59.9	57.9	− 2.0
Mexico, Mexico	.....	.....	.....	.....	.....	.....
Havana, Cuba, W. I*	30.11	30.16	+ 0.05	70.9	66.7	− 4.2
Paramaribo, D. Guiana, S. A	30.01	30.07	+ 0.06	78.4	76.9	− 1.5
York Factory, B. A	30.01	30.07	+ 0.06	−25.8	−30.6	− 4.8

* Means for six years only.

In the United States the mean temperature of the air was slightly above the normal in California, on the eastern slope of the Rocky mountains, except the southern district, and in Utah; in all other districts of the United States it was much below the normal, the greatest departures (6° to 8°) occurring in the lake region, the Gulf states and in the Ohio valley and Tennessee. In Canada the mean temperature was below the average, the departures being greatest in the province of Ontario. Throughout the continent of Europe the mean temperature of the air was considerably above the normal, the means for January, 1884, ranking amongst the highest on record in the British Isles, France and Germany. In British India the temperature was about 1°.8 below the six year mean. In Siberia it was above the normal.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
			York Factory, B. A.	−30.6	−34.8
Freetown, Africa	86.7	30.4	Fort Chimo, B. A	−23.5	−30.8
Bridgetown, Barbadoes	80.7	27.1	Nertschinsk, Siberia	−15.5	−26.4
Colon, U. S. Colombia, S. A.	78.4	25.8	Upernavik, Greenland	−14.8	−26.0
Puerto Berrio, U.S.Colombia, S.A	78.3	25.7	Jacobshavn, Greenland	−14.8	−26.0
Paramaribo, Dutch Guiana, S. A.	76.9	24.9	Nikolaevsk on the Amoor, Asia	−11.0	−23.9

Over that part of the United States lying between W. 90° and the Atlantic and south of the thirty-fifth meridian, the prevailing winds were mostly from northwest and north. In Canada, and in the United States, north of 35° N. and east of 90° W., they were mostly southwesterly and westerly. In other parts of the country they were mostly northerly and northwesterly. Over the north Atlantic ocean, north of 30° and from the American, eastward to the European coasts, the winds were westerly and southwesterly; south of 30° N., they were easterly. In Europe the winds were from southwest to west and northwest; in Japan they were northerly and westerly.

The precipitation during January, 1884, was excessive in the Atlantic seaboard states, Tennessee, and the lake region; elsewhere it was less than the average, the deficiencies being greatest on the Pacific coast. In Canada it was less than the average. In the British Isles and France the precipitation was deficient; in other parts of western and central Europe it was above the average.

STORM-TRACK CHART FOR JANUARY, 1884.

Chart iii. for January, 1884, shows the paths of the depressions that have appeared in the northern hemisphere during that month. The data are charted for each day of the month on the maps accompanying each issue of the "International Bulletin," and from these charts, together with abstracts of ships' logs and other miscellaneous data received at this office, are traced the movements of the centres of barometric minima. Chart iii. continues the series of international charts begun in November, 1877.

The paths of forty-two depressions are shown on the chart for January, 1884, and are distributed geographically as follows: Thirteen are traced in the North American continent; of this number, four entered the United States from the Northwest Territories of British America, five originated in Texas or the Gulf states, one appeared off the California coast, one in Texas, one in the lake region, and one in the Hudson Bay district. The depressions which developed in the northwestern part of the continent moved first southeastward to the lake region and then eastward over northern Canada to the Gulf of Saint Lawrence, while those which originated in the southwest moved eastward over the Gulf of Mexico to the east Gulf states, and thence northeastward, passing into the Atlantic ocean from the Carolina and Virginia coasts. The disturbance charted as ii. moved from Utah southeastward to the Gulf of Mexico, and thence northeastward over the Atlantic seaboard states and Canada to Labrador.

Eleven depressions are traced over the Atlantic ocean; of this number, five are continuations of depressions which entered the Atlantic from the North American coast, one occupied the neighborhood of Bermuda, two appeared in mid-ocean, one of these, number xiv., being a continuation of a disturbance which occupied the ocean at the close of December, 1883, two depressions originated in the region north of the sixty-fifth parallel, and one appeared off the Irish coast at the close of the month. The general direction of movement of the above depressions was to the northeastward, those which entered the Atlantic from the United States having passed off the coast at unusually low latitudes, while only one well-defined depression passed into the Atlantic from the Gulf of Saint Lawrence or Maritime Provinces.

Of the ten depressions charted in Europe, five first appeared near the coasts of the British Isles and Scandinavia, three developed in the northern districts, near or north of the fifty-eighth parallel of latitude, while the remaining disturbances are shown over the Mediterranean districts. With one or two exceptions, noted below, the European storms have moved from the Scandinavian peninsula by a southeasterly course to central and southern Russia, two of them continuing their easterly movement into Asia. The exceptions referred to were numbers xxxi. and xxxii.; the former passed over northern Scotland and the North Sea, finally disappearing in the Baltic, while the latter disturbance, which exhibited great violence, moved from the Irish coast in a northeasterly direction, along the Norwegian coast.

Five depressions are charted in Japan, their general direction of movement being to the northeastward, and three are shown over the Pacific ocean; one of these appeared over the Aleutian archipelago; one near Kamtchatka, and one off the eastern coast of Japan. The course of this latter was somewhat unusual; it remained off the coast of Japan for several days, during which time it materially affected the weather in that country.

As interesting features of the storm-track chart for January, 1884, may be mentioned, 1st, the low latitude at which the storms from the American continent have entered the Atlantic, and the almost entire absence of well-defined disturbances from the Gulf of Saint Lawrence; 2d, the numerous depressions which have appeared in northern and eastern Europe, and their pronounced southeasterly direction of movement; 3d, the absence of well-defined or violent storms in the southern and western districts of Europe; 4th, the stormy period which occurred in northwestern Europe during the closing days of the month in connection with low area number xxxii.

Of the depressions which appeared in the North American continent, those traced as numbers ii. and vi. were the most violent, although high winds to gales accompanied nearly all of the depressions charted. Number ii. developed great energy during its passage over the Atlantic States on the 9th and 10th, the barometer falling to 29.0 (736.6). Number vi. was very severe over the lake region and New England, the barometer falling to 29.1 (739.1) on the 13th.

An area of high barometer occupied the Atlantic ocean south of 50° N., from the European to the American coasts during the first half of the month, and during this period deep depressions passed eastward over the regions north of the sixtieth parallel. On the 16th the pressure began to give way, especially over the ocean between W. 40° and the American coast, and continued fluctuating until the 21st, when an area of high pressures again formed and spread over the entire region between N. 20° and 50°; during this period several depressions passed northeastward, attended by more or less stormy weather. On the 25th and 26th, the pressure again gave way, and on the 27th the high area was pushed to the southward during the continuance of the storm traced as low area xxxii; at the close of the month, however, the pressure began to rise again. Some of the depressions which passed over the Atlantic were deep, notably so those that moved north of the sixtieth parallel.

Many of the storms which traversed northern Europe were very severe, the barometer falling below 29.0 (736.6) during the passage of low areas xiv., xv., xx., xxi., xxx., and below 28.5 (723.9) during the progress of number xxxi. But by far the most important and disastrous storm of the month was that which prevailed over the British Isles and northwestern Europe from the 26th to the 29th, charted as low area xxxii. In this storm the depression attained a depth of 27.3 (693.4), which is the lowest barometer reading, reduced to sea-level, ever recorded. In connection with this storm the following interesting article is taken from "SYMONS'S MONTHLY METEOROLOGICAL MAGAZINE," for March, 1884:

THE GREAT STORM OF JANUARY 26, 1884.

By William Marriott, F. R. M. S.

This storm was remarkable for its violence and large area, as well as for the unprecedently low barometer reading at its centre. * * * The centre of the depression appeared to have first reached the northwest coast of Ireland at noon, and passed in a northeasterly direction over the north of Ireland and across the middle of Scotland, reaching Aberdeen about midnight. Its rate of progress was therefore about 30 miles an hour. A violent gale was experienced all over the British Isles, the greatest hourly velocity of the wind being 68 miles at Valencia at 11 a. m.; 70 miles at Holyhead at 2 p. m.; 63 miles at Falmouth at 3 p. m.; 69 miles at Armagh, and 59 miles at Aberdeen at 5 p. m.; 58 miles at Greenwich from 5 to 7 p. m., and 76 miles at Alnwick at midnight. Thunder-storms occurred on the southeastern side of the depression, and travelled across the south of Ireland and England at the rate of about 30 miles an hour. The lowest readings of the barometer (reduced to sea level) yet reported were 27.26 inches (from an aneroid barometer, which is believed to be nearly correct), at Kilcreggan at 8.30 p. m., and 27.332 inches at Ochtertyre, near Crieff, at 9.45 p. m. In the southern part of England, directly after the minimum had occurred, there was a very sudden rise in the reading of the barometer, in some cases amounting to .08 inch in five minutes. From an examination of previous records it appears that there has never before been so low a barometer reading as 27.26 inches, so that this storm may be considered as one of the most remarkable that has occurred in the British Isles.

The lowest readings on record apparently are: December 25, 1821, 28.016 at Greenwich. January 7, 1839, 27.695 at Aberdeen. December 27, 1852, 27.984 at Culloden. December 31, 1865, 27.63 at the Hoy Lowlight, Orkney. On February 5, 1870, the reading of 27.33 inches was recorded on the Cunard steamer "Tarifa" in the Atlantic in lat. 51° N. and long. 24° W.

Of the depressions charted in Japan that numbered xxxvii. caused strong westerly to northerly gales during its passage, the barometer falling to 29.55 (750.6) in northern Niphon, while at the centre of disturbance in the Pacific, the pressure was less than 29.0 (736.6).

STORM-TRACKS FOR JUNE, 1882.

The chart for June, 1882, shows the tracks of thirty-two depressions that have appeared in the northern hemisphere. They are distributed geographically as follows: Ten are traced in the United States and Canada; of these three developed in the central valleys of the United States and passed eastward over the lake region and Canada to the Gulf of Saint Lawrence, two appeared in northern Canada, and one in the Saint Lawrence valley, the latter being a continuation of a storm shown on the chart for the preceding month; that charted as number ix. followed an irregular course, moving slowly over the Gulf of Saint Lawrence and then southward and westward to the coast of Nova Scotia, when it apparently recurved and moved off to the eastward. One depression developed in the northwest and passed eastward to the lakes and thence northeastward along the Saint Lawrence valley. Three depressions are shown over the region west of the Rocky mountains; these disturbances had some progressive movement within the stationary area of low pressure which occupied this region throughout the month. No disturbances were sufficiently well-defined after leaving the American continent to admit of their being traced as continuous storms over the Atlantic, although several depressions appeared over the region east of the twentieth meridian. Thirteen disturbances are traced in Europe; these moved slowly and in erratic paths, principally over the northwestern districts of the continent. Five moved eastward and northeastward from the ocean between W. 20° and 10°, where they first appeared, to the British Isles and southern Scandinavia; number xxi. developed near Iceland and remained for several days off the western coasts of the British Isles, causing unsettled weather in those districts. Three are charted over the Italian peninsula, whence they passed eastward and northeastward into Russia; one is shown in central Russia, two in the Black Sea region, and one is charted in Germany and the Netherlands.

Seven depressions are traced in Asia; two of these occupied eastern Siberia and the remaining five are shown on the eastern coast of China and over Japan. Two disturbances are traced in the north Pacific ocean.

The noteworthy features of the chart are: the absence of disturbances over the north Atlantic, and the irregular paths of the depressions traced in Europe and also those in America; and the comparatively few depressions that appeared in Scandinavia. None of the disturbances exhibited marked energy, although some were unusually deep for summer depressions, especially those in Europe. In the depression charted as number i. over the United States, the barometer fell to 29.3 (744.2) on the 1st; in the case of number ii. it read 29.5 (749.3) on the 3d and 4th; and in numbers vii. and ix. the minima were 29.25 (742.9) and 29.28 (743.7) on the 18th and 27th, respectively. In the depressions traced in Europe the lowest barometer readings were as follows: number xi., 29.4 (746.7) on the 3d; xiii., 29.11 (739.4) on the 7th; xiv., 29.17 (740.9) on the 5th and 6th; xvii., 29.17 (740.9) on the 11th; xix., 29.28 (743.7) on the 14th. In the storms which occurred in eastern China and Japan, the barometer fell to 29.5 (749.3) during the passage of low areas xxiv., xxviii., and xxx.; in numbers xxvi. and xxix., which moved over the Pacific ocean, the lowest pressures recorded were, 29.15 (740.4) on the 12th, in the former; and 29.0 (736.6) on the 20th, in the latter.

GENERAL REMARKS.

DAILY BULLETIN.

All data which appear in the DAILY BULLETIN OF SIMULTANEOUS METEOROLOGICAL OBSERVATIONS are copied from the regular exchanges of this office. The barometer readings for land stations, in the first and second columns, are reduced to freezing and their respective standards; those in the third and fourth columns to sea-level. When necessary, corrections for instrumental error, temperature, and reduction to sea-level are always applied, while those for instrumental error, only when such corrections can be ascertained with close approximation, as by comparison when vessels are at or near land stations. Relative humidity generally requires computation from the hygrometrical observations. When rain has fallen, but neither the amount nor duration is recorded, the word "blank" is published in the rainfall column. The weather is generally published as given. The following symbols and abbreviations are common to all series, viz: ‡, aneroid; *, instrumental error not known; c, cirrus; k, cumulus; s, stratus; n, nimbus; d, scud; f, fracto; p, pallio; hz, haze; fg, fog; sk, smoke; inap, inappreciable; d. clouds, detached clouds. The movement of the air is published as given on the originals, when indicated by velocity in miles per hour, in meters per second, or by force, all variations of the latter being reduced to the common scale of 0 to 10. Those stations reporting the movement in pounds pressure per square foot are reduced to force on the common scale, and those in kilometers per hour, to meters per second and miles per hour. The distinction between upper and lower clouds is carefully made in the United States and a portion of the Canadian series, and the various formations are indicated by the letters above given and their combinations.

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

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

BOUNDARIES OF DISTRICTS.

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

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

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

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

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

The following remarks relate to the individual peculiarities in the *methods*

of recording, and the *times* of taking, the international simultaneous meteorological observations, under the auspices of the various meteorological bureaus:

ALGERIAN SERIES (furnished by co-operation of M. Thévenet, Director of the Meteorological service at the College of Science of Algeria).—The originals give the barometer in millimetres reduced to sea-level; temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The rainfall is measured at 7 a. m., local time, and the amount indicated in millimetres.

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

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

BELGIAN SERIES (furnished by the co-operation of J. C. Houzeau, Director of the Royal Observatory at Brussels).—The originals give the barometer in millimetres reduced to sea-level; temperature in Centigrade; weather by the Vienna symbols, and occasionally in general terms. At Arlon the observations are taken at 1 p. m., local time.

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

CANADIAN SERIES (furnished by co-operation of Charles Carpmael, A. M., F. R. A. S., Director of the Magnetic Observatory at Toronto and Superintendent of the Meteorological Office of the Dominion of Canada, and respective observers).—The originals give the barometer reduced to sea-level in English inches and the temperature in Fahrenheit. Meteorological reports from stations marked with a * are telegraphed daily to the office of the Chief Signal Officer of the Army. At St. John's, N. F., the barometer appears read about .10 inch too high, which correction has been applied from August 1st, 1883.

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

CHILIAN SERIES (by authority of the Secretary of Public Instruction, furnished by co-operation of Francisco Vidal Gormáz, President of the Central Meteorological Office at Santiago).—Observations are taken mostly at lighthouses on the coast; the originals give barometer as read off; temperature in Centigrade; humidity is not given but is computed at this office from the hygrometrical observations.

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

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

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

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

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

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

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

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

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

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

MEXICAN SERIES (furnished by co-operation of the respective observers).—The kind of clouds is given, and also the direction and amount of both upper and lower. The degree of cloudiness is indicated on a scale of 0 to 10. Rainfall is generally measured at 6 a. m., local time.

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

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

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

RUSSIAN SERIES (furnished by co-operation of Professor H. Wild, Director of the Imperial Central Physical Observatory of Russia at St. Petersburg).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by velocity in meters per second. No distinction is made between upper and lower clouds; the amount is given on a scale of 0 to 10, and the kind occasionally. The weather is occasionally given by the Vienna symbols. At Astrakhan, Ashurada and Baku, the barometer-cistern is below sea-level. On December 7th, 1883, the barometer at Archangel was "deranged," and the corrections to the aneroid used in its place are not exact.

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

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

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

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

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

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

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

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

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

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

INTERNATIONAL CHARTS ACCOMPANYING DAILY BULLETIN AND MONTHLY SUMMARY.

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

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

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

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

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

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

MONTHLY SUMMARY OF INTERNATIONAL SIMULTANEOUS METEOROLOGICAL OBSERVATIONS.

The position of stations (latitude and longitude) are obtained from Keith Johnson's "Index Geographicus," except where more exact information is furnished. The elevation of stations is obtained either from the annual, semi-annual, and monthly publications of the various meteorological bureaus here represented, or from the original forms upon which are entered the daily observations. In the United States series the elevations are computed from the latest surveys, and are carefully revised each month, in order to note any change in the elevation of the barometer-cistern at any station. It is believed for the most part that, throughout the European and other series, the elevations as given represent the height of the barometer-cistern above sea-level; at least, this should be the case. The local time, where omitted or not given correctly in the original, is carefully computed at this office. A letter placed opposite the name of a station or some portion of the data credited thereto, indicates that a certain number of observations are missing, corresponding to the relative position in the alphabet of the letter so used.

BRITISH SERIES, Bradford: a letter placed opposite the name of station, refers to all the data except rainfall.

On January 1st, 1884, the following changes occur in the elevation of stations: Chilian Series, Valpariso, from 25 to 40 meters; Japanese, Nemuro, from 18 to 13 meters; Austrian, Eperies, from 250 to 258 meters; Szegedin, from 78 to 86 meters; United States, Helena, Montana, from 4,100 to 4,044 feet.

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

ERRATA.

MONTHLY SUMMARY, November, 1883, page 25, Fort Conger, Grinnell Land (Lady Franklin Bay), in place of latitude and longitude as published, read latitude N. 81° 44′, longitude W. 64° 45′.

DAILY BULLETIN, January 4th, 1884, page 1, Canadian, London, Ontario, reduced barometer 29.14, 740.1, should read 30.14, 765.5.

5th, page 1, Canadian, London, Ontario, actual barometer 30.36, 771.1, should read 29.36, 745.7.

20th, page 1, Canadian, Medicine Hat, N. W. T., actual barometer 29.92, 760.0, should read 27.92, 709.2.

24th, page 1, Australian, Adelaide, reduced barometer 29.07, 738.4, should read 30.07, 763.8.

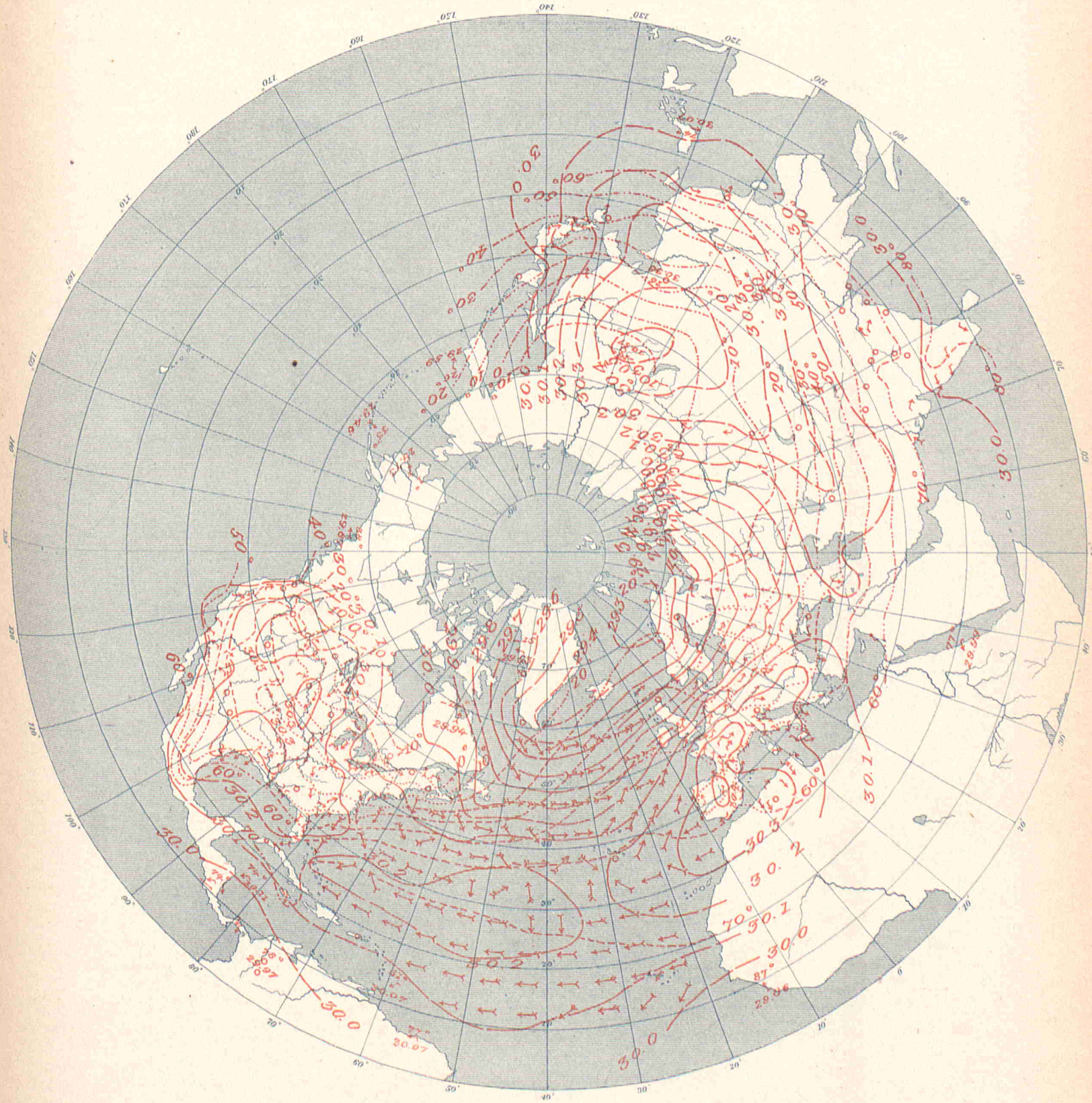
25th, page 1, Australian, Adelaide, reduced barometer 29.06, 738.1, should read 30.06, 763.5.

26th, page 1, Australian, Adelajde, reduced barometer 29.16, 740.7, should read 30.16, 766.1.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

International Chart II. January, 1884. Isobars, Isotherms, and Winds.



UNITED STATES OF AMERICA.

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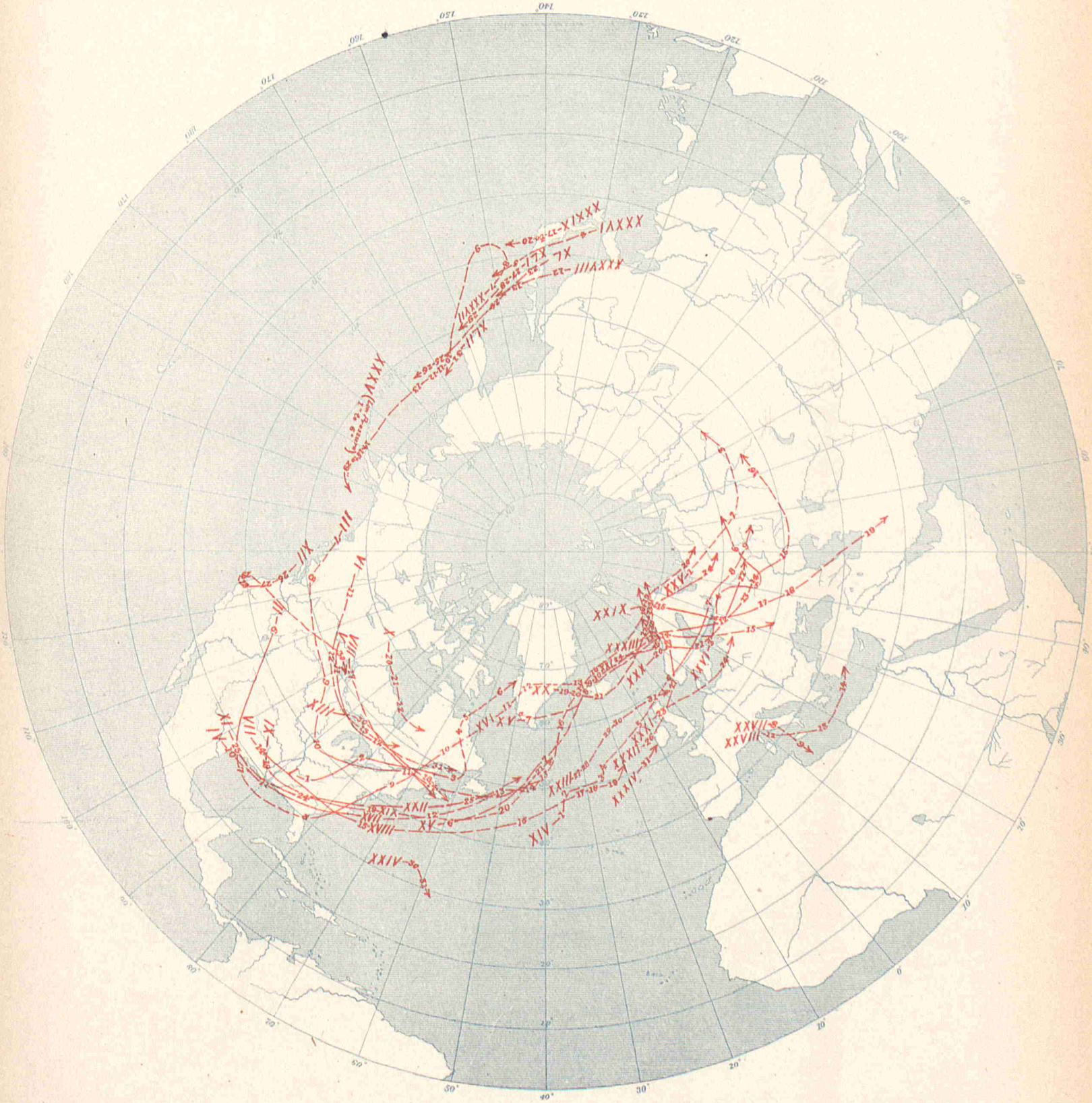
Signal Office Lith.

International Chart III. January, 1884. Storm-Tracks.



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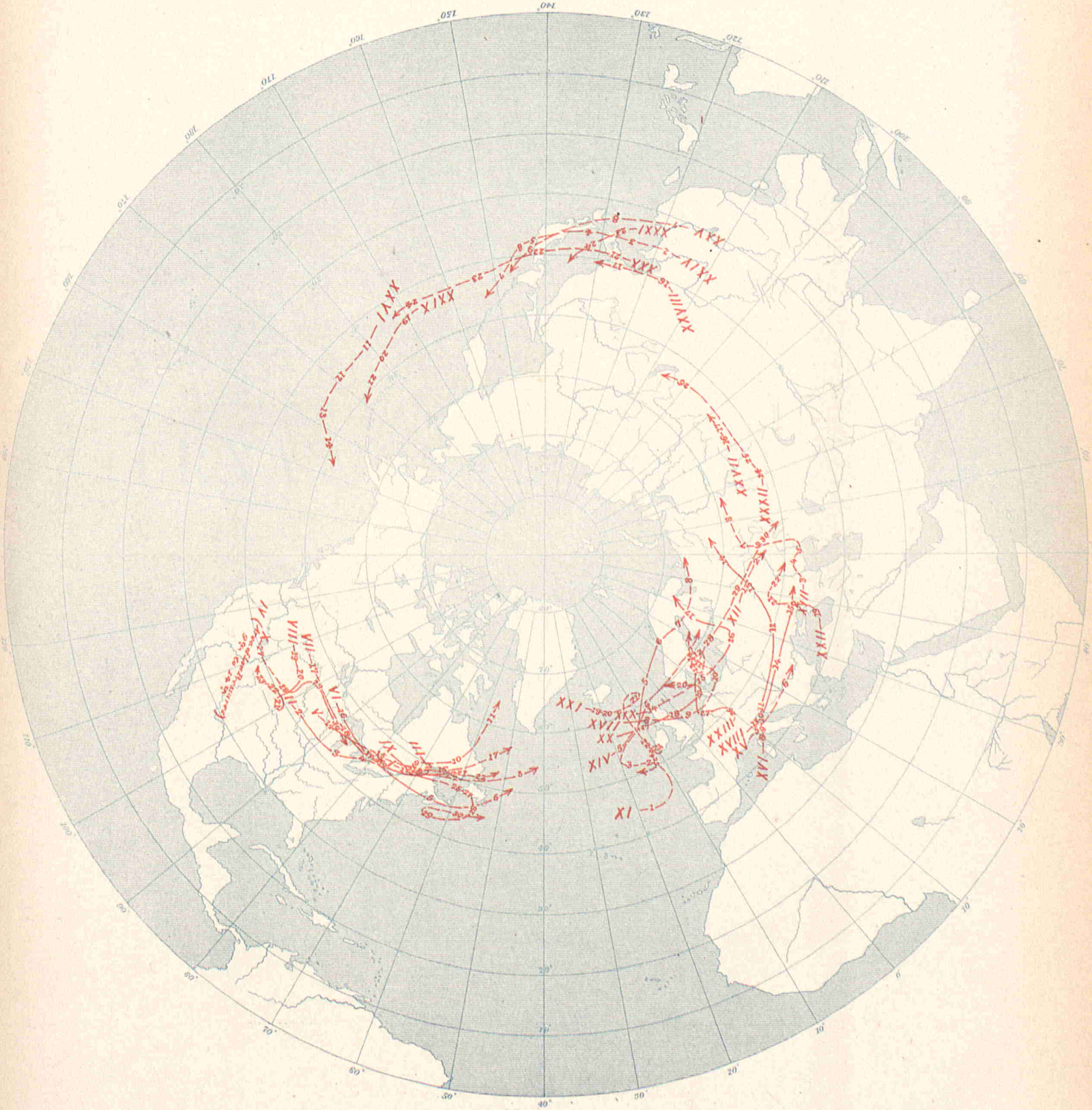
International Chart III. June, 1882. Storm-Tracks.



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Signal Office Lith.

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

BULLETIN

OF

INTERNATIONAL METEOROLOGY

FOR THE MONTH OF FEBRUARY, 1884.

PRINTED FOR EXCHANGE WITH CO-OPERATING OBSERVERS.

WASHINGTON, D. C.:
MARCH, 1885.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 1. 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.35	771.0	63.0	17.2	82	ne.			1		0			0	0	clear	Roziere.
Algiers			30.32	770.2	58.6	14.8	83	sse.			1		1			0	0	very fair	Thève.
La Galle			30.36	771.2	68.0	20.0	67	n.			1		1			0	0	very fair	Fontiéle.
Tunis			30.40	772.2	58.3	14.6	55	sw.			2		2			0	0		Delord.
Geriville					66.9	19.4	21	nw.			1		0			0	0	clear	Forfert.
Laghouat			30.50	774.6	67.6	19.8	76	s.			1		0			0	0	clear	Abraham.
Biskra			30.46	773.6	60.1	15.6	64	ne.			1		0			0	0	clear	Gonzon.
Australian.																			
Adelaide, South Australia			29.88	758.9	64.9	18.3	64	calm	0	0		2 cs				0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.62	752.3	29.81	757.2	55	12.8	94	w.	5	2.2			10		nw.	0.16	4.1	heavy rain	Com. J. Shortt, R.N.
Melbourne, Victoria	29.77	756.1	29.86	758.4	59.0	15.0	83	sse.	3	1.3			1			0	0	fine	R. L. Ellery.
Austro-Hungarian.																			
Agram	29.45	748.0	30.00	761.9	55.2	12.9	39	sw.			6		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.04	737.6	29.81	757.1	51.4	10.8	77	wsw.	1.8	0.8			7			0.031	0.8		Dr. Wierzbiski
Eperies	29.05	737.9	29.96	761.0	37.0	2.8	94	se.			1		10			0	0	foggy	Julius Mikolik.
Gratz	28.64	727.5	29.92	759.9	45.1	7.3	67	sw.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.52	724.4	29.97	761.1	49.6	9.8	69	sw.			2		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.51	724.1	29.87	758.8	43.3	6.3	76	calm			0		2			0.087	2.2	clear	The Staff.
Lemberg	28.87	733.4	29.88	759.0	42.6	5.9	90	s.			2		10			0.118	3.0		Dr. T. Stanecki.
Pola	30.07	763.8	30.19	766.7	52.2	11.2	93	sw.			1		10			0	0		I. R. Hydrographic Office.
Szathmar	29.50	749.2	29.97	761.3	41.7	5.4	87	se.			2		5			0	0		Joseph Midlinszky, S. J
Szegedin	29.71	754.6	29.99	761.8	51.4	10.8	70	s.			1		3			0	0		Karl Stancel.
Trieste	30.14	765.6	30.24	768.1	47.3	8.5	91	calm			0		10			0.031	0.8		Royal Academy.
Vienna	29.16	740.6	29.89	759.1	44.6	7.0	77	se.			1		2			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.37	720.5	29.77	756.2	43.0	6.1	97	w.			3		5			0.012	0.3		
Brussels	29.45	747.9	29.65	753.1	46.8	8.2	91	w.			5		10		wsw.	0.035	0.9	raining	
Furnes	29.58	751.2	29.60	751.7	49.5	9.7	80	sw.			1–2		7			0.091	2.3		
Maeseyck	29.50	749.3	29.63	752.5	46.8	8.2	91	s.			3		10			0.433	11.0	raining	
British.																			
Aberdeen	29.37	746.0	29.47	748.5	39.3	4.1	91	ne.	33	14.8			10			0.125	3.2	raining	W. Boswell.
Bidston, Liverpool Obs'y			29.22	742.2	44.0	6.7	84	ese.	19	8.5			10					overcast	John Hartnup.
Bolton, Sharples	28.73	729.7	29.26	743.2	44.0	6.7	84	sse.	6	2.7			10					raining	Thomas Mackereth.
Bradford, Yorkshire	28.89	733.8	29.29	744.0	46.1	7.8	73	sw.			2		5			0.73	18.5	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.06	763.5	30.09	764.3	84	28.9	64	ne.			2		3					blue sky	Corp'l C. McGregor, A.H.C
Cardington					46.0	7.8	80	sw.			2.0		2					blue sky	John McLaren.
Chatham, School M. E.	29.30	744.2	29.47	748.5	48.1	8.9	72	w.			4		7					gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.00	736.6	29.22	742.2	48.7	9.3	72	sw.			7		9					overcast	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.68	753.9	29.91	759.7	85	29.4	76	n.			6		3					d. clouds	J. W. Smith.
Galway, Queen's College	29.05	737.9	29.09	738.9	40	4.4	82	ne.			4		10			0.15	3.8	raining	Wm. Ryan.
Gibraltar, Mediterranean	30.18	766.6	30.23	767.8	65.0	18.3	89	nw			3		0					blue sky	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.27	743.4	29.44	747.8	48.8	9.2	78	sw.					6					d. clouds	The Staff.
Guernsey	29.22	742.2	29.51	749.5	48.0	8.9	78	wsw.			6		5					d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	29.40	746.7	29.44	747.8	49.3	9.6	65	sw.	30	13.4			9					threatening	The Staff.
Leicester, Museum	29.08	738.6	29.33	745.0	48.6	9.2	75	sw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	30.32	770.1	30.39	771.9	62.4	16.9	84	sw.			2		7			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.17	766.3	66.0	18.9	85	se.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.13	739.9	29.36	745.7	46.0	7.8	82	s.			6		8					threatening	The Staff.
Plymouth	29.20	741.7	29.28	743.7	48.9	9.4	80	sw.			7		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.59	751.6	29.70	754.4	33.2	0.7	79						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.08	764.0	30.14	765.5	50.6	10.3	70	wsw.			1		8					d. clouds	W. H. Lyne.
Sheffield	29.01	737.6	29.31	744.5	46.0	8.3	77	ssw.			1		6					overcast	W. F. Cooper.
Silloth Rectory	29.25	742.9	29.28	743.7	44.5	6.9	91	se.			2		6			0.020	0.5	d clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.29	744.0	46.3	7.9	69	s	11	4.9			10			0.702	17.8	overcast	Rev. S. J. Perry.
Strathfield Turgiss					45.5	7.5	84	sw.			3.0		9					raining	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.23	742.4	29.25	742.9	44.5	6.9	76	nne.	34	15.2			10					squally	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.95	760.7	30.34	770.6	60.1	15.6	85	sw.	5.6	2.5			10 n			0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.					32.0	0.0		calm	0	0			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.60	751.8	29.64	752.8	35	1.7	94	calm	0	0			10 n		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.54	750.3	29.61	752.1	26	— 3.3	96	sw.	1	0.4			fg			0	0	dense fog	G. A. Blair.
Cornwall, Ontario	29.55	750.6	29.76	755.9	18.2	— 7.7	71	nw.			1		10 s			0.050	1.3	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.61	752.1	29.66	753.4	23.0	— 5.0		w.			1		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	29.72	754.9	29.74	755.4	14	—10.0	87	nne.	13	5.8			10			0.05	1.3	light snow	J. McWilliams
Fort Garry, Manitoba*	28.72	729.5	29.66	753.4	— 9	—22.8	100	calm	0	0		0	0			0	0	clear	James Stewart.
Fredericton, N. B	29.56	750.8	29.63	752.6	33.1	0.6	99	calm	0	0			fg.			0	0	dense fog	Prof. Thos. Harrison.
Grand Manan, N. B	29.54	750.3	29.59	751.6	38	3.3	89	sw	6	2.7		0	fg.			0	0	light fog	J. Chipman Seeley
Granton, Ontario	28.86	733.0	30.06	763.5	10.6	—11.9	96	nw.	9	4.0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	29.56	750.8	29.70	754.4	37	2.8	100	se.	3	1.3			fg.			0.160	4.1	dense fog	A. Allison.
Hamilton, Ontario	29.50	749.3	29.94	760.5	14.7	— 9.6	90	sw.			1	4 cs	0	w.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.51	749.5	29.87	758.7	14	—10.0	83	nw.	1	0.4		0	0			0.02	0.5	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.67	753.6	29.70	754.4	47.0	8.3	100	sw.	1	0.4			10 n			inap.	inap.	raining	C. H. Rigby.
London, Ontario	29.08	738.6	30.06	763.5	10.8	—11.8	88	w.			2		10 ks			inap.	inap.	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.45	697.2	29.80	756.9	28	— 2.2	92	nw.	10	4.5			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	27.43	690.7	29.51	749.5	3	—16.1		n.	1	0.4		0	8 n		n.	0.01	0.3	light snow	Rev. J. M. Wellwood.
Montreal, Quebec*	29.52	749.8	29.73	755.1	21	— 6.1	91	w.	10	4.5			10 n			0.04	1.0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.56	750.8	29.80	756.9	12.0	—11.1	80	nw.				2 k	0			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.24	742.7	30.01	762.2	3	—16.1	76	nw.	7	3.1		5 k	5 ks	nw.	nw.	0.04	1.0	fair	Rev. R. Moseley.
Peterboro, Ontario	29.13	739.9	29.93	760.2	10.7	—11.8	49	nw.			1	0	0			0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.08	738.6	29.88	758.9	— 9	—22.8	95	s.	2	0.9		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.29	744.0	30.05	763.3	9	—12.8	100	w.	8	3.6		0	0			0.13	3.3	clear	E. Morgan.
Port Stanley, Ontario	29.37	746.0	30.07	763.8	10	—12.2	83	w.	8	3.6		0	0			0	0	clear	M. Payne.
Qu'Appelle, N. W. T	27.24	691.9	29.04	752.8	13	—10.6		nw.	20	8.9			10 n		calm			light snow	Leslie Gordon.
Quebec, Quebec*	29.25	742.9	29.63	752.6	20	— 6.7	100	n.	16	7.2			10 s		n.	0.15	3.8	light snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.43	747.5	29.94	760.5	0	—17.8	91	w.	5	2.2		0	0			0.03	0.8	clear	W. H. McIntyre.
St. Andrews, N. B	29.51	749.5	29.56	750.8	36	2.2	100	calm	0	0			10			0	0	foggy	
St. John, N. B	29.46	748.3	29.60	751.8	35.5	1.9	100	s.	8	3.6			10 n			0.401	10.2	foggy	G. Hutchinson.
St. Pierre, N. F			29.84	758.0	39.6	4.2		sw.			2								The Commandant.
Saugeen, Ontario*	29.23	742.4	30.01	762.2	9	—12.8	100	se.	2	0.9			10 s			0.06	1.5	cloudy	
Stratford, Ontario	28.66	728.0	30.00	763.5	7.8	—13.4	55	w.	2	0.9		0	0			0	0	blue sky	W. McBride, M.A.
Sydney, C. B*	29.67	753.6	29.73	755.1	38	3.3	96	s.	8	3.6			10 n			0.44	11.2	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
Toronto, Ontario*	29.58	751.3	30.00	762.0	12	—11.1	76	nw.	8	3.6		0	0			0	0	clear	Director Observatory.
Woodstock, Ontario	28.92	734.6	30.09	764.3	7.7	—13.5	78	w.	2	0.9			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.55	750.6	29.62	752.3	40	4.4	96	s.	12	5.4			fg			0	0	dense fog	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.16	766.1	30.19	766.8	76.5	24.7	88	se.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.87	758.7			90.0	32.2	31	s.				0	0			0	0		Capt.R.Gardner Warton
Springbok Fontein	27.82	706.6			93	33.9	34									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.87	758.7	29.95	760.6	66.2	19.0	90	w.			1	10						cloudy	Samuel Redolez.
Iquique	29.88	758.9	29.91	759.6	73.9	23.3	74	sw.			2	6 c						foggy	Rafael Moreno.
Niebla	29.49	749.1	29.60	751.8	60.1	15.6	93	w.			1		7		w.			drizzling	Federico Köhling.
Punta Caldera	29.81	757.2	29.90	759.4	68.9	20.5	86	nw.			1	8 s		nw.				fair	Manuel Tobar.
Punta Corona	29.82	757.4	30.00	762.1				w.			1	6 n		ne.		0.173	4.4	cloudy	Francisco Alvarado.
Valparaiso	29.82	757.4	29.96	760.9	64.8	18.2	83	se.			0		10					cloudy	Paez-i-Ampuero.
Chinese (Sub-series).																			
Zi-Ka-Wei, near Shanghai	30.58	776.6	30.60	777.2	32.5	0.3	72	n.	6.7	3.0			10			0	0	covered	M.Marc Dechevrens,S. J
Danish.																			
Copenhagen	29.27	743.5	29.32	744.7	44.4	6.9	99	sw.	11	5			10					raining	Oversergent Fischer.
Fanöe	29.28	743.7	29.30	744.2	41.0	5.0	98	wsw.			4		10					raining	Overloerer Lauridsen.
Godthaab, Greenland	28.92	734.5	28.96	735.6	21.7	— 5.7		nw.			2–4		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	28.98	736.2	29.00	736.7	33.4	0.8		sse.			6		10					snowing	
Jacobshavn, Greenland	28.95	735.2	28.99	736.4	4.1	—15.5		calm			0		9					snowing	
Stykkisholm, Iceland	29.76	755.8	29.80	756.9	26.6	— 3.0	89	s.			4		0						A. O. Thorlacius.
Thorshavn	29.92	759.9	29.94	760.5	24.4	— 4.2	81	n.	13	6			6						Overloerer Bergh.
Upernavik, Greenland	28.97	735.9	29.02	737.1	— 3.3	—19.6		calm			0		10					hazy	
Vestervig	29.17	740.8	29.26	743.1	41.2	5.1	98	wsw.			2		10					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	30.11	764.7			61.2	16.2		sw.	1.8	0.8			8			0.012	0.3	covered	Albert Ismaiun.
French.																			
Agen, Normal School	29.56	750.8	30.22	767.6	49.3	9.6	86	w.			1	5 c			w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.28	743.8	29.84	757.8	45.3	7.4	89	sw.			4		2 s		ne.	0	0	slightly cl'dy	M. Nicot, Director.
Arras, Normal School					50.2	10.1	65	w.			4		0			0.106	2.7	clear	M. Ungerer, Director.
Avignon, Normal School	30.07	763.8	30.15	765.8	51.4	10.8	90	se.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.35	745.5	29.91	759.8	48.0	8.9	78	sw.			1		8		wsw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.47	748.5	29.74	755.3	50.9	10.5	65	wsw.			2		8		wsw.	0.126	3.2	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.02	737.0	29.91	759.7	48.6	9.2	81	sw.			2				ne.	0.185	4.7		M. Gobin, Director.
Bordeaux, Observatory	29.80	756.8	30.06	763.5	52.3	11.3	64	wsw.			2		8		w.	0.146	3.7	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.45	748.1	30.01	762.3	48.9	9.4	89	wsw.			6		n		wsw.	0.047	1.2		M. Sauvageot, Director.
Brest, Naval Observatory	29.39	746.5	29.63	752.7	51.1	10.6	76	sw.			8		5		sw.	0.717	18.2		M. de Kermarrec, Dir.
Caen, Normal School	29.63	752.6	29.71	754.5	50.7	10.4	95	sw.			4		0			0.020	0.5	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.46	748.2	29.78	756.3	49.1	9.5	85	sse.			6		5		nw.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.30	744.1	29.82	757.3	47.5	8.6	76	w.			1		10			0	0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.64	727.4	30.01	762.3	47.8	8.8	68	wsw.			8		8			0.012	0.3		M. Allnard, Director.
Cluny, Normal School	29.15	740.4	30.00	762.1	50.0	10	81	sw.			1		5		sw.	0	0	cloudy	M. de Villemontée, Dir.
Commercy, Normal School	29.00	736.6	29.87	758.6	46.4	8	89	w.			4		5	w.	w.			raining	Dr. Coulet, Director.
Gap, Normal School	27.63	701.7	30.24	768.1	40.1	4.5	90	calm			0		9 n			0	0		M. Jarach, Director.
Grésaque, du Rhone	29.01	736.8	30.15	765.9	50.2	10.1	93	s.			1		10		se.			slight rain	M. Kina, Director.
Grenoble, Normal School	29.35	745.4	30.13	765.3	47.1	8.4	72	ne.			1		1		ne.	0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.43	722.0	30.02	762.5	44.2	6.8	94	w.			6		n		e.	0	0		M. Delorme, Dir.
Lescar, Normal School	29.55	750.5	30.11	764.9	56.3	13.5	52	w.			1		5	ne.		0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.60	751.7	29.70	754.3	52.5	11.4	61	sw.			8		10		sw.	0.039	1.0	covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28.97	735.9	30.04	763.0	50.4	10.2	74	s.			4		8 n		wsw.	0	0	very cloudy	M. André, Director.
Mans, Normal School	29.51	749.6	29.82	757.5	48.7	9.3		ssw.			6		2 cn		w.	0.138	3.5	slightly cl'dy	M. Richard, Director
Marseille, Observatory	29.89	759.1	30.16	766.0	54.1	12.3	83	sse.			2		10		sse.	inap.	inap.	light rain	M. Stephan, Director.
Montlouis	24.86	631.4	29.70	754.4	44.6	7.0	44	sw.	16.8	7.5			6	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.97	761.3	30.08	764.1	52.9	11.6	90	n.			2		10			0.08	2.	covered	M. Galzin, Director.
Nancy, Normal School	29.08	738.7	29.88	758.9	46.4	8.0	83	sse.			1		kn		w.	0	0		M. Hasse, Director.
Nantes, Observatory	29.75	755.6	29.91	759.7	50.9	10.5	71	sw.			2–4	c	5 kn		sw.	0.193	4.9		M. Larocque, Director.
Perpignan, Observatory	30.02	762.5	30.13	765.4	57.2	14.0	68	sw.	3.8	1.7			10		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.17	537.6			21.2	— 6.0		sw.			2		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.23	742.5	30.33	770.3	48.6	9.2	86	s.			6		n		s.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.02	635.6			29.8	— 1.2	100	wsw.			8		10			0.016	0.4	foggy	M. Allnard.
Rochefort, Naval Obs'y	29.97	761.3	30.00	762.1	53.6	12.0	65	sw.			6		0			0.20	5.	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.67	753.6	29.89	759.1	51.4	10.8	68	sw.			6				w.	0.201	5.1		M. Brotier, Director.
Rodez, Normal School	27.97	710.4	30.14	765.5	44.8	7.1		se.			2		5 ks		se.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.65	753.1	29.70	754.3	51.8	11	97	sw.			1		5	sw.		0.08	2.	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.64	752.8	29.80	757.0	47.1	8.4	76	wsw.			1		8		wsw.	0.185	4.7	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.46	748.2	30.19	766.7	50.4	10.2	70	sse.			2		8	wnw.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.71	754.6	29.89	759.2	51.8	11.0	63	s.			6		5	sw.	ssw.	0.126	3.2	cloudy	M. de Tastes.
Versailles, Observatory								w.			4		5			0.106	2.7	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.99	761.8	30.14	765.6	55.2	12.9	57	sw.	9.8	4.4		c	8 k		sw.	0.173	4.4		M. Cartier, Director.
German.																			
Ansbach	28.40	721.2	29.84	758.0	51.8	11.0	63	sw.			2		5	sw.		0	0		Prof. Jnedt.
Bamberg	28.99	736.3	29.83	757.6	46.8	8.2	64	sw.			4		6 ks		wsw.	0.024	0.6		Prof. Dr. Hoh.
Berlin	29.36	745.8	29.51	749.5	49.3	9.6	74	s.			3		7			0.075	1.9		Meteorological Institute
Breslau	29.22	742.3	29.75	755.6	51.3	10.7	65	ssw.			2		10	wsw.		0.004	0.1	light fog	Royal University Obs'y
Carlsruhe	29.37	746.0	29.83	757.6	52.2	11.2	66	sw.			5		10	sw.		0.012	0.3		Albert Senz.
Cassel	28.90	734.1	29.61	752.2	49.3	9.6	74	s.			5		8	s.		0.024	0.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.37	746.1	29.74	755.4	50.9	10.5	69	ssw.			2		10			0	0		Physical Society.
Friedrichshafen	28.52	724.3	29.95	760.7	47.5	8.6	69	sw.			4		4	sw.		0.402	10.2		Wilhelm, Chief Tel.
Hamburg	29.39	746.6	29.48	748.9	47.3	8.5	89	sw.			7		10			0.083	2.1	raining	E. Preiler.
Kiel	29.39	746.6	29.41	747.0	47.5	8.6	90	sw.			4		10			0.512	13.0		Prof. Dr.G. Karsten.
Leipsic, Astron'l Obs'y	29.25	742.9	29.67	753.5	52.7	11.5	63	sw.			2		7	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.40	746.7	29.59	751.5	52.3	11.3	66	ssw.			3	7 c		sw.		0.004	0.1		Weather Observatory.
Memel	29.58	751.4	29.63	752.6	37.9	3.3	95	se.			2		10 s						Issermann.
Munich	28.04	712.1	29.89	759.2	53.4	11.9	49	calm			0		1			0	0		Central Station.
Neufahrwasser	29.60	751.8	29.61	752.2	44.4	6.9	96	s.			1		10			0.102	2.6	raining	A. Lothes.
Neustadt, Palatinate	29.24	742.8	29.77	756.1	52.9	11.6	59	w.			4		10			0	0		Prof. Dicknether.
Stuttgart	28.91	734.4	29.81	757.1	52.2	11.2	56	sw.			7		10	w.		0.043	1.1		Prof. Dr. Schoder.
Wustrow	29.39	746.6	29.42	747.2	48.9	9.4	84	ssw.			3		10 s			0.252	6.4		Profs. Brandes & Reimer
Greek.																			
Athens	29.82	757.4	30.21	767.2	59.0	15.0		n.			1		0			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.90	759.6	29.96	760.9	72.9	22.7	81	wsw.	24.0	10.7			8			0	0	d. clouds	
Deesa	29.48	748.7	29.96	760.9	79.1	26.2	14	wsw.	6.0	2.7			6	wsw.		0	0	d. clouds	
Bombay	29.89	759.2	29.93	760.1	76.8	24.9	59	nnw.	19.0	8.5			1	wnw.		0	0	d. clouds	
Poona, Yarrowda	28.04	712.2	29.89	759.1	82.5	28.1	18	nw.	6.0	2.7			5			0	0	d. clouds	
Belgaum	27.36	695.0	29.90	759.4	77.6	25.3	43	wsw.	7.0	3.1			1	w.	s.	0	0	d. clouds	
Lahore	29.22	742.1	29.99	761.7	62.6	17.0	38	calm	0	0			0			0	0	blue sky	
Roorkee	29.01	736.8	29.94	760.4	64.8	18.2	26	w.	1.5	0.7			0			0	0	blue sky	
Agra	29.39	746.6	29.97	761.3	70.2	21.2	32	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.91	734.3	29.97	761.1	74.9	23.8	27	calm	2.0	0.9			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.61	726.6	30.00	762.0	67.9	19.9	37	calm	0	0			0			0	0	blue sky	
Lucknow	29.57	751.1	29.96	761.0	64.3	17.9	32	w.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.65	753.2	29.98	761.4	64.4	18.0	51	calm	0	0			0			0	0	blue sky	
Patna	29.76	755.8	29.95	760.7	66.0	18.9	31	wnw.	5.2	2.3			0			0	0	blue sky	
Hazaribagh	27.90	708.6	29.99	761.6	60.5	15.8	29	nw.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.87	758.7	29.95	760.8	75.0	23.9	54	ssw.	4.0	1.8			7			0	0	d. clouds	
Calcutta, Alipore	29.93	760.2	29.95	760.8	66.7	19.3	51	calm	0	0			0			0	0	blue sky	
Dhubri	29.81	757.2	29.94	760.3	64.4	18.0	39	calm	0	0			0			0	0	blue sky	
Chittagong	29.85	758.1	29.94	760.5	71.8	22.1	68	w	2.5	1.1			0			0	0	blue sky	
Sibsagar	29.61	752.1	29.96	761.0	59.9	15.5	85	se.	1.0	0.4			8	w.	w.	0.09	2.3	d. clouds	
Jeypore	28.51	724.1	29.99	761.7	69.7	20.9	38	nw.	9.0	4.0			2	nw.		0	0	blue sky	
Zanzibar	29.83	757.7	29.85	758.3	80.2	26.8	77	ne.	11.3	5.0			1			0	0	d. clouds	
Bellary	28.41	721.6			85.0	29.4	25	s.				0	0			0	0	blue sky	
Trichinopoly	29.67	753.6			83.6	28.7	37	ene.	0.2	0.1		3	2			0	0	d. clouds	
ITALIAN.																			
Udine	29.78	756.3	30.20	767.1	45.0	7.2	80	calm	0	0			10			0	0		Prof. Giovanni Clodig.
Milan	29.66	753.4	30.20	767.1	42.1	5.6	91	e.	1.8	0.8			10			0.110	2.8		Prof. G.V.Schiapparelli
Padua	30.07	763.8	30.19	766.7	43.3	6.3	67	nw.					10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.23	742.5	30.17	766.3	41.2	5.1	95	nne.	2.5	1.1			10			0.146	3.7		Prof. F. F. Denza.
Genoa	30.00	761.9	30.19	766.0	52.7	11.5	84	se.	9.4	4.2			10	s.		0.016	0.4		Prof. G. M. Garibaldi.
Pesaro	30.14	765.5	30.19	766.8	56.5	13.6	60	sw.	11.9	5.3			4	w.		0	0		Prof. Luigi Guidi.
Florence	29.97	761.1	30.22	767.7	55.4	13.0	71	sw.			2		10	wsw.		0	0		Prof. Costantino Pittei.
Leghorn	30.09	764.2	30.16	766.0	57.2	14.0	78	sw.	5.6	2.5			7	sw.		0	0		Prof. P. Monte.
Rome	30.12	765.0	30.30	769.5	56.3	13.5	68	ssw.	3.8	1.7			10			0	0		Prof. P. Tacchini.
Lecce	29.99	761.7	30.25	768.3	59.4	15.2	51	sw.	3.8	1.7			1	w.		0	0		Prof. C. de Giorgi.
Cosenza	29.40	746.8	30.32	770.1	52.2	11.2	75	sse.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari																0	0		Prof. A. Pacinotti.
Palermo	30.03	762.8	30.29	769.3	57.7	14.3	68	ne.	4.3	1.9			0			0	0		Prof. G. Cacciatore
Syracuse	30.24	768.2	30.29	769.4	58.3	14.6	62	s.	7.4	3.3			0			0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.75	755.7	30.28	769.2	55.6	13.1	69	sw.	1.8	0.8			8	sw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.95	760.7	29.98	761.6	23.1	— 4.9	72	n.			2		9 k		nw.	0.260	6.6	cloudy	H. Hattori.
Awomori	29.88	758.9	29.92	759.9	17.6	— 8.0	81	sw.	5.6	2.5		0	0			0.728	18.5	clear	K. Ogawa.
Hakodate	29.87	758.8	29.88	759.1	23.0	— 5.0	52	nnw.	15.6	7.0		0	0			0	0	clear	Y. Souma.
Hamamatsu	30.00	762.0	30.10	764.5	33.1	0.6	63	wsw.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.27	768.9	30.29	769.3	32.7	0.4	82	ne.	2.9	1.3			10 n		n.			snowing	Y. Okamoto.
Kagoshima	30.32	770.1	30.33	770.4	38.4	3.0	66	n.			2		10 s			0	0	overcast	
Kanazawa	30.07	763.7	30.18	766.5	28.6	— 1.9	90	nnw.	1.9	0.8		2 ck	6ks;s			0.348	8.8	cloudy	S. Endo.
Kioto	29.98	761.6	30.16	766.0	33.1	0.6	72	nnw.	3.8	1.7		0	6 s			0.004	0.1	fair	M. Tojima.
Kochi	30.21	767.3	30.23	767.8	35.0	1.7	65	w.	4.5	2.0		0	1 s			0	0	clear	K. Kusunose.
Miasaka	30.27	769.0	30.30	769.7	35.0	1.7	70	wnw.			1	1c;ck	1 s	w.	w.	0	0	fair	K. Masusaki.
Miyako	29.80	756.9	29.91	759.7	23.0	— 5.0	37	nw.	1.0	0.4		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.14	765.5	30.36	771.1	36.6	2.2	67	nw.	6.0	2.7			9 s		n.	0	0	cloudy	
Nemuro	29.63	752.6	29.68	753.9	19.3	— 7.1	58	w.	10.8	4.8		1 k	0			0	0	clear	A Shibuya.
Niigata	30.02	762.5	30.06	763.5	31.0	— 0.6	85	n.	10.5	7.3		0	8n;ks		nw.	0.040	1.0	light snow	Satoo & Tomikawa.
Nobiru	29.94	760.5	29.96	760.9	23.5	— 4.7	98	n.	0.9	0.4		0	0				0	clear	Yoshino & Midzushina.
Numadzu	29.97	761.2	30.01	762.2	35.0	1.7	72	ne.			2	0	5 s			0.004	0.1	fair	T. Ohgi.
Osaka	30.16	766.1	30.18	766.6	34.0	1.1	75	n.	5.9	2.6			10s;ks			0	0	cloudy	H. Omura.
Sakai	30.22	767.5	30.23	767.7	31.8	— 0.1	95	nnw.			2		10 n			2.004	50.9	snowing	Yamawchi & Sakamoto.
Sapporo	29.74	755.5	29.81	757.3	26.0	— 3.3	76	nw.	13.8	6.2			10 n;s			0.055	1.4	covered	S. Kimura.
Shimonoseki	30.17	766.2	30.31	769.9	35.1	1.7	67	nnw.			2	0	5 s		nw.	0	0	fair	S. Sakano.
Wakayama	30.13	765.3	30.19	766.7	32.8	0.4	92	calm	0	0		0	7 n			0.332	8.4	snowing	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.65	753.1	29.84	757.9	79.5	26.4	73	ene.	17.0	7.6			8 ks;kn		ne.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.35	618.5	30.18	766.6	47.3	8.5	73	ssw.	0.9	0.4		4 c	1 s			0	0	fair	M. Leal & M. Pina.
Mazatlan	29.79	756.7	30.06	763.4	66.5	19.2	92	e.	0.9	0.4		1 cs	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.57	751.1	29.57	751.1	48.7	9.3		wsw.			5					0.098	2.5		
Groningen	29.45	747.9	29.50	749.3	46.9	8.3		wsw.								0.358	9.1		
Helder	29.45	748.0	29.45	748.0	45.5	7.5		sw.			4					0.114	2.9		
Hellevoetsluis	29.53	750.1	29.53	750.1	51.1	10.6	79	wsw.			5					0.236	6.0		
Utrecht	29.51	749.5	29.56	750.9	47.7	8.7	85	ssw.			4		10			0.236	6.0	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.82	757.3			79.9	26.6	81	nne.	0	0			1			0	0		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.36	745.7	29.42	747.3	34.5	1.4	74	n.	34	15			4			0	0		
Brono	29.40	746.7	29.44	747.7	30.0	— 1.1	56	w.			4		4			0.031	0.8		
Christiania	29.26	743.2	29.41	747.1	26.1	— 3.3	89	se.	11	5			10			0	0		
Gjæsvær	29.20	741.7	29.22	742.3	23.0	— 5.0		s.			7		0			0.028	0.7		
Lodingen	29.21	741.8	29.25	743.0	29.1	— 1.6	68	s.			7		7			0.106	2.7		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.37	771.4	30.46	773.7	64.4	18.0	63	sw.	2.5	1.1			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.99	761.7	30.34	770.5	53.1	11.7	80	sw.	5.6	2.5			10			0.075	1.9		The Staff.
Ponta Delgada, Azores	30.59	777.0	30.66	778.8	56.1	13.4	52	nne.	14.3	6.4			4			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.00	762.0	30.04	762.9	71.2	21.8	80	nne.			4		5			0	0	hazy	
San Salvador, Congo	28.00	712.6	29.86	758.5	83.8	28.9	56	nw.			1		8			0	0		
Serra da Estrella	25.39	644.8	30.33	770.3	31.5	— 0.3	92	s.			5		10			0.866	22.0		
RUSSIAN.																			
Akmolinski	29.07	738.3	30.26	768.6	6.6	—14.1	66	e.	9	4		0	0			0	0		Major K. Lasarew.
Archangel	29.47	748.5	29.49	749.0	21.7	— 5.7	90	e.	4	2			10			0	0		Capt. Sselkwerstow
Ashurada	30.19	766.8	30.10	764.4	45.0	7.2	89	wsw.	11	5			10 n			0.272	6.9		
Astrakhan	29.95	760.7	29.87	758.7	35.1	1.7	100	wsw.	11	5			10 ks			0.039	1.0	hvy. clouds	Capt. Wisganow.
Baku	30.11	764.8	30.06	763.6	42.6	5.9	87	calm	0	0			9 ks			0	0		
Barnaul	30.00	761.9	30.55	776.0	9.0	—12.8	66	calm	0	0			0			0	0		Meteorological Office.
Bielosersk	29.01	736.8	29.50	749.2	23.2	— 4.9	100	nw.	4	2			10 n			0.055	1.4	snowing	
Dorpat	29.49	749.0	29.74	755.4	31.3	— 0.4	85	wsw.	2	1		c	10 ks			0.354	9.0		Observatory.
Ekaterinburg	28.98	736.1	30.02	762.6	10.4	—12.9	91	se.	9	4		3 c	0			0	0	light clouds	Meteorological Obs'y
Elissawetgrad	29.51	749.6	29.98	761.4	37.2	2.9	88	w.	7	3			9 s			0	0		
Kasan	29.27	743.4	29.56	750.7	16.5	— 8.6	91	ese.	13	6			10			0	0		Observatory.
Kem	29.52	749.9	29.58	751.2	18.0	— 7.8	97	calm	0	0			10 ks			0	0		
Kertch	29.96	761.6	29.98	761.6	43.7	6.5	83	w.	7	3			9 n			0	0		Lagorio & Sastyrea.
Kieff	29.21	742.0	29.87	758.0	38.5	3.6	75	w.	11	5		cs	1 ks			0	0		Observatory.
Koslov	28.95	735.4	29.47	748.5	30.4	— 0.9	77	wnw.	20	9			10 s					light snow	
Lgov	29.21	742.0	29.82	757.3	34.5	1.4	72	wnw.	22	10			8			0.067	1.7		R. I. Ssaweljew, Engin'r.
Libau	29.59	751.5	29.61	752.1	37.0	3.1	95	se.	11	5			10			0	0		[illegible]
Lugan	29.56	750.7	29.77	750.1	30.1	2.3	84	wsw.	13	6			9			0	0		Meteorological Obs'y
Moscow	28.95	735.2	29.44	747.8	26.4	— 3.1	85	nw.	18	8			8ks;s			0.087	2.2		Meteorological Obs'y
Nertschinsk	30.02	711.7	30.61	777.5	— 4.4	—20.2	78	nw.	2	1			1			0	0	light clouds	
Nikolaiev	29.95	760.6	30.02	762.4	39.2	4.0	88	s.	4	2			10 n			0	0		Capt. Kurdakow.

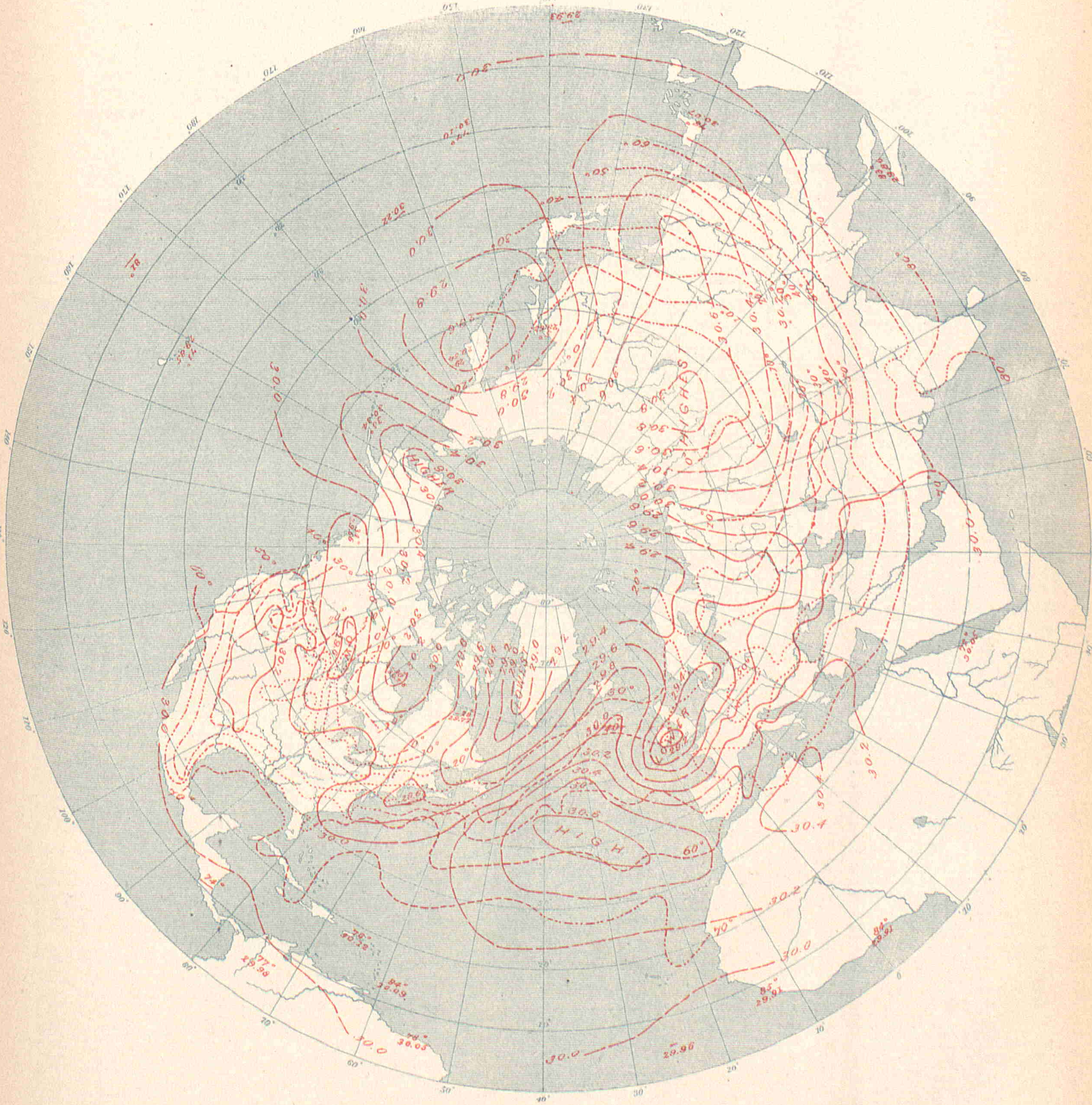
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor	29.54	750.3	29.63	752.5	4.6	—15.2	64	nw.	9	4		0	3 k						Iwanow.
Pekin, China	30.47	773.8	30.61	777.4	23.0	— 5.0	35	calm	0	0		0	0						Siang.
Petro-Alexandrovsk	29.60	751.9	29.97	761.2	37.4	3.0	61	n.	2	1			5						Walter.
Petrozavodsk	29.34	745.1	29.54	750.4	21.4	— 5.9	90	nw.	9	4		0	8 ks			0.012	0 3		Dr. Bergmann.
Pinsk	29.36	745.8	29.87	758.8	38.1	3.4	88	sse.	7	3			10 s			0	0		
Poti	30.14	765.5	30.17	766.3	43.2	6.2	94	s.	7	3			10 n			0.406	10.3	raining	
St. Petersburg	29.65	753.1	29.67	753.7	25.3	— 3.7	82	nw.	9	4			10 n			0.012	0.3		Central Physical Obs'y.
Samarkand	27.37	695.1	29.85	758.2	46.9	8.3	60	calm	0	0		2 c	0						Dresch.
Semipalatinsk	29.81	757.2	30.57	776.4	— 8.1	—22.3	84	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.86	758.5	30.08	764.0	49.1	9.5	71	wnw.	7	3			9 s			0	0		
Staroi Bykhov	29.24	742.8	29.82	757.4	32.7	0.4	69	wnw.	9	4			9 ks			0	0		Carl Hagen.
Tashkend, Laboratory	28.23	717.0	29.92	760 0	45.9	7.7	39	ne.	9	4			2 k						Tercu, A. M
Tiflis	28.64	727.4	30.10	764.5	41.9	5.5	51	nw.	18	8		0	6 k			0	0		Physical Observatory.
Vernoe	27.36	694.9	30.03	762.8	18.0	— 7.8	77	calm	0	0		0	0						Sariono.
Viatka	28.98	736.0	29.65	753.0	15.4	— 9.2	72	se.	9	4			10			0	0		
Vladivostock	30.22	767.7	30.29	769.4	8.4	—13.1	55	n.	18	8			0			0	0		
Warsaw	29.33	744.9	29.75	755.7	47.5	8.6	88	sw.	7	3			10					heavy clouds	Astronomical Obs'y.
Yeniseisk	30.59	776.9	30.92	785.4	—10.3	—23.5	77	calm	0	0			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.80	731.5	29.31	744.5	25.7	— 3.5	80	wnw.	31.0	13.9			9 ks		nw.	0.05	1.3	snow-drift	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.02	762.5	30.13	765.3	56.7	13.7	77	wsw.				2 ck	5			0	0		B. J. Elin.
Bilbao, Met. Obs'y	30.06	763.6	30.12	765 1	54.9	12.7	46	sw.	4.5	2.0			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.21	691 0	30.27	768.8	42.8	6.0	70	w.	13.0	5.8		0	8			0.098	2.5	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.01	711.5	30.30	769.7	48.0	8.9	70	w.	20.4	9.1			10			0	0	covered	The Staff.
Murcia, Met. Obs'y	30.06	763.6	30.19	766.9	66.0	18.9	77	se.	0.7	0.3		3	6	w.		0	0	almost cov'd	Olayo Diaz, Director,
Santiago, Met. Obs'y	29.17	740.9	30.09	764.2	45.1	7.3	85	s.	8.7	3.9			10			0.689	17.5	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.06	763 5	30.13	765.2	64.0	17.8	91	ese.	0.4	0.2		0	8			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.01	762 2	30.07	763 7	76.2	24.6	67	ne.	5.5	2.5		0	8		e.	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.26	768.6	30.36	771.1	61.9	16.6	80	w.	4.7	2.1		2	4	w.	w.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.03	762.8	30.12	765.1	75.6	24.2	52	n.	3.1	1.4			10 k		n.	0	0	overcast	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.51	749.5	29.55	759.5	11.1	—11.6	100	calm			0		10			0	0		
Umea	29.44	747.8	29.49	749.1	13.5	—10.3	100	calm			0		10			0	0		
Hernosand	29.46	748.2	29.51	749.5	26.2	— 3.2	82	calm			0		9			0	0		
Stockholm	29.34	745.1	29.51	749.6	33.1	0.6	89	se.			2		10			0	0		
Wisby	29.41	746 9	29.47	748.4	36.3	2.4	93	sse.			2		10			0.010	0.4	raining	
Sub-series.																			
Upsala	29.41	746.9	29.49	749 1	26.2	— 3.2	97	e.	4.0	1.8			10			0.102	2.6	foggy	H.H.Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.19	766.7	52.0	11.1	63	sw.	9	4.0			8		wnw.	0	0		The Observatory.
Valona			30.31	769 9	58.1	14.5		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.15	765.8	59.0	15.0	56	n.			1		1 n		nw.	0.127	3.2		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.63	752.6	29.72	754.9	33	0.6	78	w.	13	5.8			10 n			0.04	1.0	light snow	J. O. Barnes.
Alpena, Michigan	29.34	745.2	30.05	763.3	— 4.2	—20.1	65	w.	2	0.9		0	0			0.02	0.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.08	637.0	30.18	766.6	36.4	2.4	69	e.	1	0.4		0	8 s			0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	26.97	685 0	30.01	762.2	28.0	— 2.2	77	sw.	8	3.6		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	28.83	732.3	30.05	763.3	45.0	7.2	68	n	20	8.9		0	0			0.13	3.3	clear	S. W. Beall.
Atlantic City, New Jersey	29.65	753.1	29.66	753.4	46.0	7.8	100	sw.	7	3.1			10 n			0.49	12.4	light rain	B.A.Blundon.
Augusta, Georgia	29.79	756.7	29.90	761.7	55	12.8	90	sw.	1	0.4		10 cs	fg.	w.		0.22	5.6	cloudy	W.J.Evans.
Baltimore, Maryland	29.73	755.1	29.78	756.4	44.4	6.9	60	nw.	15	6.7			10 s		w.	0.04	1.0	cloudy	Geo. W Feiger.
Barnegat City, New Jersey	29.63	752.6	29.65	753.1	44.0	6.7	93	nw.	16	7.2			10n; fg		nw.	0.12	3.0	light rain	F.L.Johnson.
Bennett, Fort, Dakota	28.05	712.5	29.78	756.4	22.6	— 5.2	80	calm	0	0		0	1 s			0.01	0.3	clear	A. Pritchard
Benton, Fort, Montana	27.03	686.5	30.03	762.7	38.0	3.3	36	sw.	20	8.9			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	27.68	703.1	29.66	753.4	32.0	0.0	71	nw.	12	5.4			10 s		nw.	0.08	2.0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.56	750.8	29.59	751.6	42.5	5.8	100	sw.	20	8.9			10n; fg			0.05	1.3	light rain	J. T. Elker.
Boise City, Idaho	27.32	693.9	30.28	769.1	16	— 8.9	100	n.	1	0.4			fg.			0	0	dense fog	James Kenealy.
Boston, Massachusetts	29.38	746.2	29.54	750.3	39.0	3.9	100	sw.	4	1.8			10 n		s.	0.05	1.3	light rain	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.05	763.3	61.0	16.1	100	se.	2	0.9		0	fg.			0	0	clear	John McGlone.
Buffalo, New York	29.22	742.2	30.01	762.2	14.5	— 9.7	73	w.	16	7.2			10 s		w.	0.20	5.1	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.50	698.5	29.72	754.9	32	0.0	85	w.	18	8.0		0	5 s			inap.	inap.	fair	A. Schneider.
Cairo, Illinois	29.77	756.1	30.19	766.8	31.5	— 0.3	78	ne.	3	1.3		0	0			inap.	inap.	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.83	757.7	30.03	762.7	37.0	2.8	89	e.	1	0.4		0	hz.			0	0	clear	J.H.Young.
Cape Henry, Virginia	29.74	755.4	29.76	755.9	52.0	11.1	100	s.	10	4.5			10 s			0.12	3.0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.77	756.1	29.80	756.9	38.0	3	82	nw.	17	7.6			10 s		n.	0.21	5.3	cloudy	W.E.Smith.
Cape Mendocino, California	29.21	741.9	29.91	759.7	54	12.2	74	se			2		fg			0	0	dense fog	A. P. Leavitt.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	61.0	16.1	97	s.	15	6.7		0	8 s		s.	inap.	inap.	threatening	G. W. Davis.
Charleston, S. Carolina	29.89	759.2	29.95	760.7	56.5	13.6	93	w.	9	4.0			10 s		w.	0.18	4.6	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.00	736.6	29.89	759.2	52.4	11.3	93	sw.	2	0.9			10 s		sw.	0.54	13.7	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.14	765.5	38.5	3.6	73	nw.	7	3.1		1 cs	0			1.16	29.5	clear	B. L. Gouldinz.
Cheyenne, Wyoming	23.90	607.0	30.17	766.3	30.9	— 0.6	52	nw.	34	15.2		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.34	745.2	30.10	764.5	14.3	— 9.8	50	w.	1	0.4		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	29.67	753.6	29.69	754.1	46.7	8.2	100	s.	8	3.6			10 s		nw.	0.43	10.9	cloudy	C. F. Dickens
Cincinnati, Ohio	29.47	748.5	30.16	766.1	29.5	— 1.4	84	nw.	3	1.3		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.30	744 2	30.09	764.3	15.2	— 9.3	97	n.	11	4.9			10 s		n.	0.02	0.5	cloudy	W. Line.
Columbus, Ohio	29.21	741 9	30.11	764 8	24	— 4.4	67	w.	9	4.0		3 k	4 s	w.	w.	0 02	0.5	fair	F.T. Williams
Concho, Fort, Texas	28.20	716.3	30.22	767.6	35.1	1.7	80	sw.	3	1.3		0	1 s			0	0	clear	O. E. King.
Custer, Fort, Montana	26.60	675.6	29.96	761.0	39	3.9	72	w.	4	1.8		0	7 s			0	0	fair	W.J.Daily.
Davenport, Iowa	29.34	745 2	30.04	763.0	18.2	— 7.7	67	se.	6	2.7			10 s			0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	30.24	768.1	38.9	3.8	64	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.20	716.3	30.02	762.5	36.5	2.5	57	sw.	4	1.8		5 k	0			0	0	fair	H.S.Blandford.
Deadwood, Dakota	25.09	637.3	30.01	762.2	40.0	4.4	59	w.	5	2.2		0	0			0	0	clear	G.Kingsbury.
Delaware Breakwater, Del.	29.70	754.4	29.72	754.9	44.5	6.9	100	w.	17	7.6		0	10 n		w.	0.24	6.1	light rain	G.A.Martin.
Denver, Colorado	24.62	625.3	30.14	765 5	43.4	6.3	34	nw.	2	0.9			0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.90	734.0	29.87	758.7	27	— 2.8	64	s.	5	2.2		10 cs	0	sw.		inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.39	740.5	30.14	765 5	15.1	— 9.4	67	w.	2	0.9		0	0			0.02	0.5	clear	N.B.Conger.
Dodge City, Kansas	27.35	694 7	30.09	764.3	33.5	0.8	50	sw.	10	4.5		hz.	0			0	0	clear	J.E.Lanouette.
Dubuque, Iowa	29.26	743.2	30.02	762.5	8.8	—12.9	59	s	5	2.2			10 s			0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.06	738.1	29.87	758.7	— 5.0	—20.6	79	w.	3	1.3		0	0			0	0	clear	E.R.Brace.
Eastport, Maine	29.52	749.8	29.59	751.6	36.5	2.5	94	s.	2	0.9			10s; fg		s.	0	0	cloudy	D. C. Murray.
Elliott, Fort, Texas	27.19	690.6	30.09	764 3	34.5	1.4	76	calm	0	0		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.36	669.5	30.24	768.1	35.4	1.9	82	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.29	744.0	30.06	763.5	15.0	— 9.4	87	nw.	14	6.3			10 s		nw.	0.17	4.3	cloudy	O. A. Shaw.
Escanaba, Michigan	29.31	744.5	30.03	762.7	—11.0	—23.9	56	sw.	1	0.4		0	0			0	0	clear	L.M.Pindell.
Fort Smith, Arkansas	29.63	752.6	30.13	765.3	35.0	1.7	79	e.	3	1.3		0	0			0	0	clear	J. B. Campbell.
Galveston, Texas	30.05	763.3	30.09	764.3	63.0	17.2	92	w.	6	2.7			10 n			0.04	1.0	light rain	E. O'C. Macinerney
Grand Haven, Michigan	29.33	745.0	30.04	763 0	18.0	— 7.8	84	se.	5	2.2			10 s		s.	0.02	0.5	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.27	641.8	30.13	765.3	44.2	6.8	70	ne.	2	0.9			10 s			0	0	cloudy	Chas. A. Read.
Hatteras, North Carolina	29.79	756.7	29.80	756.9	58.7	14.8	100	sw.	24	10.7			10 n		sw.	0.12	3.0	light rain	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
United States.—Cont'd.																			
Helena, Montana	25.69	652.5	30.04	763.0	31.5	— 0.3	74	w.	12	5.4		0	3 s			0	0	clear	S. W. Morrison.
Huron, Dakota	28.20	716.3	29.72	754.9	30.8	— 0.7	70	w.	10	4.5		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.29	744.0	30.14	765.5	18.4	— 7.6	57	nw.	4	1.8		0	0			0.01	0.3	clear	C. F. R. Wappenhans.
Indianola, Texas	30.02	762.5	30.05	763.3	61.3	16.3	99	sw.	6	2.7			fg.			0	0	dense fog	I. A. Reed.
Jacksonville, Florida	30.02	762.5	30.07	763.8	61.3	16.3	93	sw.	5	2.2			10 s		sw.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.32	744.7	30.02	762.5	22.0	— 5.6	73	se.	8	3.6		1 k	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.10	764.5	30.12	765.0	67	19.4	90	e.	3	1.3		2 ck	2 k	sw.	e.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	29.84	757.9	29.86	758.4	50.5	10.3	93	sw.	7	3.1			10 s			0.10	2.5	cloudy	Wesley Blake.
Knoxville, Tennessee	29.05	737.9	30.13	765.3	36.3	2.4	70	n.	4	1.8		0	0			1.37	34.8	clear	J. A. Cody.
La Crosse, Wisconsin	29.09	738.9	29.93	760.2	5	—15.0	69	s.	4	1.8			10 n			inap.	inap.	light snow	S. C. Emery.
Leavenworth, Kansas	29.03	737.3	29.98	761.5	32.2	0.1	88	sw.	4	1.8		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.18	741.2	30.05	763.3	30.0	— 1.1	78	se.	2	0.9		0	3 k			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.80	756.9	30.13	765.3	41.0	5.0	65	ne.	4	1.8		0	0			0.04	1.0	clear	W. U. Simons.
Los Angeles, California	29.63	752.6	30.03	762.7	54.5	12.5	96	e.	16	7.2			10 n			0.69	17.5	light rain	T. S. Collins
Louisville, Kentucky	29.56	750.8	30.15	765.8	29.5	— 1.4	70	w.	5	2.2		0	sk.			inap.	inap.	clear	L. M. Dey.
Lynchburg, Virginia	29.12	739.6	29.84	757.9	45.0	7.2	60	nw.	13	5.8			10 s		nw.	0.22	5.6	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.33	745.0	30.03	762.7	— 4.0	—20.0	81	sw.	4	1.8		0	0			0.30	7.6	clear	D. B. Notson.
Macon, Fort, North Carolina	29.82	757.4	29.83	757.7	44.6	7.0	96	sw.	32	14.3			10 n		sw.	0.18	4.6	light rain	William Daly.
Maginnis, Fort, Montana	25.46	646.7	30.21	767.3	34.0	1.1	46	sw.	28	12.5		10 k	0			0	0	cloudy	F. Burke.
Marquette, Michigan	29.20	741.7	29.98	761.5	— 2.0	—18.9	57	w.	10	4.5		0	0			inap.	inap.	clear	J. Gilligan.
Memphis, Tennessee	29.83	757.7	30.18	766.6	39.5	4.2	60	ne.	1	0.4		0	fg.			0.12	3.0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.27	743.4	30.07	763.8	9.2	—12.7	67	w.	5	2.2		0	0			0	0	clear	S. W. Rhode.
Mobile, Alabama	30.02	762.5	30.06	763.5	62.3	16.8	93	nw.	4	1.8		4 k	6 s	nw.	nw.	0.03	0.8	cloudy	H. U. Jones.
Montgomery, Alabama	29.83	757.7	30.07	763.8	51.8	11.0	86	calm	0	0		5 cs	fg.			0.04	1.0	fair	Geo. E. Franklin.
Moorhead, Minnesota	28.60	726.4	29.70	754.4	10	—12.2	100	se.	21	9.4			10 n		s.	0.05	1.3	light snow	H. Bessant.
Mt. Washington, N. H.	23.20	589.3	29.82	757.4	21.5	— 5.8	93	nw.	30	13.4			fg.		nw.	0.02	0.5	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.58	751.3	30.10	766.8	32.5	0.3	83	nw.	4	1.8		0	0			0.39	9.9	clear	L. N. Jesunofsky
New Haven, Connecticut	29.47	748.5	29.59	751.6	37.3	2.9	100	sw.	7	3.1			fg.			0.04	1.0	dense fog	J. H. Sherman.
New London, Connecticut	29.52	749.8	29.57	751.1	37.5	3.1	100	calm	0	0			fg.			0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.08	764.0	63.3	17.4	93	n.	4	1.8			10 s		n.	0.14	3.6	cloudy	M. Herman.
New York, New York	29.47	748.5	29.66	753.4	38.7	3.7	100	w.	6	2.7			fg.			0.02	0.5	dense fog	H. J. Penrod.
Norfolk, Virginia	29.70	754.4	29.74	755.4	52.9	11.6	96	s.	2	0.9			10 s			0.50	12.7	cloudy	Wm. Davis.
North Platte, Nebraska	26.91	683.5	30.01	762.2	27.7	— 2.4	75	w.	5	2.2		0	0			inap.	inap.	clear	J. J. Mc Lean.
Olympia, Washington Ter	30.03	762.7	30.07	763.8	33.0	0.6	88	calm	0	0		0	fg.			0	0	clear	J. Dascomb
Omaha, Nebraska	28.59	726.2	29.86	758.4	34.6	1.4	73	sw.	12	5.4		0	0			0	0	clear	A. Pollak
Oswego, New York	29.56	750.8	29.91	759.7	21.0	— 6.1	60	nw.	19	8.5			10 s		w.	0.13	3.3	cloudy	J. G. Linsley.
Palestine, Texas	29.55	750.6	30.13	765.3	46.2	7.9	60	n.	8	3.6		0	0			0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.02	762.5	30.05	763.3	61.3	16.3	98	w.	7	3.1		0	8 ks		w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.60	751.8	29.71	754.6	44	6.7	93	w.	8	3.6			10 ks		nw.	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.63	447.8	30.35	770.9	10.0	—12.2	73	nw.	39	17.4		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.18	741.2	30.04	763.0	23.0	— 5.0	88	nw.	12	5.4		0	8 s		nw.	0.06	1.5	cloudy	O. D. Stewart.
Poplar River, Montana					15.9	— 8.9	80	w.			2		10 ks			0	0	cloudy	G. A. Garden.
Port Huron, Michigan	29.33	745.0	30.06	763.5	4.0	—15.6	80	nw.	4	1.8		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.46	748.3	29.51	749.5	37.0	2.8	85	sw.	2	0.9			ion; fg			0.02	0.5	light rain	W. W. Eichelberger.
Portland, Oregon	29.96	761.0	30.03	762.7	31.0	— 0.6	88	calm	0	0			fg.			0	0	dense fog	M. L. Hearne.
Prescott, Arizona	24.81	630.9	30.20	767.1	37.5	3.1	79	calm	0	0			10 s			0	0	cloudy	N. D. Lane.
Provincetown, Mass	29.51	749.5	29.54	750.3	38.0	3.3	100	s.	6	2.7			fg.			0.02	0.5	dense fog	C. N. Kitchel.
Red Bluff, California	29.63	752.6	30.00	762.0	45	7.2	76	n.	2	0.9		0	1 ks		s.	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.86	758.4	30.10	764.5	64.2	17.9	70	n.	1	0.4		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.25	742.9	29.96	761.0	17	— 8.3	83	nw.	16	7.2			10 s		nw.	0.09	2.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.48	748.8	30.05	763.3	35	1.7	89	nw.	2	0.9			fg.			0	0	dense fog	J. J. Nanry.
Sacramento, California	29.86	758.4	29.93	760.2	46.0	7.8	93	n.	4	1.8		0	7 s			0	0	fair	J. A. Barwick
St. Louis, Missouri	29.47	748.5	30.13	765.3	32.4	0.2	79	s.	10	4.5		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.64	778.2	30.68	779.3	—18	—27.8	100	w.			1	0	0			0	0	clear	Fred. H. Clarke
St. Paul, Minnesota	28.89	733.8	29.82	757.4	3.4	—15.9	100	se.	10	4.5			10 n			0.01	0.3	light snow	P. F. Lyons.
St. Vincent, Minnesota	28.68	728.5	29.64	752.8	— 5	—20.6	87	se.	7	3.1		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.74	653.8	30.30	769.6	31.3	— 0.4	59	calm	0	0		0	0			0	0	clear	J. Craig.
San Diego, California	29.94	760.5	30.00	762.0	58.7	14.8	87	s.	4	1.8			10 n			0.39	9.9	light rain	F. R. Day.
Sandusky, Ohio	29.39	746.5	30.11	764.8	15	— 9.4	67	nw.	7	3.1		0	1 ks			0.05	1.3	clear	B. F. Hough.
Sandy Hook, New Jersey	29.61	752.1	29.64	752.8	39.9	4.4	89	w.	22	9.8			fg.			0	0	dense fog	V. P. Chappel.
Sanford, Florida	30.03	762.7	30.08	764.0	59.5	15.3	87	sw.	5	2.2			10 ks		sw.	0	0	cloudy	J. B. Marbury
San Francisco, California	29.82	757.4	29.89	759.2	53.5	11.9	86	se.	5	2.2			10 n		s.	0.03	0.8	light rain	N. Goroni.
Savannah, Georgia	29.92	760.0	30.01	762.2	54.5	12.5	87	nw.	14	6.3			10 n		nw.	0.20	5.1	light rain	R. M. Geddings.
Shaw, Fort, Montana	26.20	665.5	30.00	763.5	38	3.3	56	sw.	23	10.3		4 cs	0			0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.88	758.9	30.06	763.5	47.3	8.5	67	ne.	1	0.4		0	7 s		n.	0	0	fair	E. N. Meekins.
Sitka, Alaska	29.59	751.6	29.66	753.4	34	1.1	79	e.	10	4.5			10 k		e.	0.52	13.2	cloudy	F. W. Fickett.
Smithville, North Carolina	29.83	757.7	29.87	758.7	54.0	12.2	93	w.	25	11.2			10 n		w.	0.12	3.0	light rain	O. Parker.
Spokane Falls, Wash. Ter.	27.89	708.4	30.02	762.5	17.5	— 8.1	76	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.38	746.2	30.12	765.0	24.7	— 4.1	82	se.	7	3.1		0	0			0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.04	686.8	30.17	766.3	38.0	3.3	82	calm	0	0		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.95	760.7			39.6	4.2	93	calm	0	0			10 s			0.10	2.5	cloudy	R. Connor.
Thomas, Camp, Arizona	27.38	695.4	30.21	767.3	46	7.8	93	calm			0		10 s			0	0	cloudy	R. O. Lord.
Toledo, Ohio	29.36	745.7	30.10	764.5	17	— 8.3	83	nw.	4	1.8		0	0			0.04	1.0	clear	A. Buell.
Unalaska, Alaska	30.32	770.1	30.34	770.6	35	1.7	89	se.	8	3.6			10 s			0	0	cloudy	Samuel Applegate
Vicksburg, Mississippi	29.86	758.4	30.13	765.3	47	8.3	77	n	8	3.6		0	0			0.23	5.8	clear	C. Dill.
Washington, D. C	29.67	753.6	29.79	756.7	41.0	5.0	65	nw.	18	8.0			10 s		nw.	0.11	2.8	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.94	658.9	30.06	763.5	26	— 3.3	72	ne.	4	1.8		0	2 s			0	0	clear	F. B. Brandenburg.
Wilmington, N. Carolina	29.83	757.7	29.89	759.2	57.2	14.0	91	w.	17	7.6			10 n		w.	0.05	1.3	light rain	L. H. Albrecht.
Yankton, Dakota	28.36	720.3	29.78	756.4	33.6	0.9	70	w.	13	5.8		0	0			inap.	inap.	clear	E. H. Thompson.
Yuma, Arizona	29.92	760.0	30.08	764.0	55.8	13.2	84	calm	0	0			10 n			0.01	0.3	light rain	W. S. Delano.
Sub-series.																			
Behringsland, Kamchatka	29.52	749.8	29.54	750.3	28.8	— 1.8	73	sw.	19	8.5		0	6 n			0.03	0.8	fair	George Cherwick.
Bluefields, Nicaragua, C. A.					75	23.9		nw.			2	0	8 ks		ne.	0.27	6.9	cloudy	W. H. Jackson.
Bogota, U. S. C	22.02	559.3			53.0	12.0	75	calm	0	0			9 k		s.	0	0	covered	Joaquin Gomez.
Chimo, Fort, Ungava	29.64	752.8	29.77	756.1	—28	—33.3	100	sw.	7	3.1		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I			30.10	764.5	70.0	21.1	84	n.	2	0.9			10 s		e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A	30.05	763.3	30.05	763.3	78	25.6	86	e.			2	5 ck	4 s	e.		0.030	0.8		Dr. C. J. Hering.
Puerto Berrio, U. S. C	29.42	747.3	29.98	761.5	77	25.0	89	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Olsa.
Rivas, Nicaragua, C. A					74	23.3	90	ne.			2	0	0			0	0	clear	Earl Flint.
York Factory, B. A	30.20	767.1	30.28	769.1	—30.0	—34.4		nw.	11	4.9		0	0			0	0	clear	Fortescue & Wood.
U. S. of Colombia. *(Sub series).*																			
Colon	29.93	760.2	29.94	760.4	79.2	26.2	84	n.	11.2	5.0		0	4 k		n.	0	0	fair	P. Fasiani.
Nuds, Bay of Panama	29.87	758.7	29.94	760.4	76.3	24.6	87	n.			4	0	2 ks		n.	0	0	clear	Antonio Fabra.

Vessels with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper	Lower	Upper	Lower			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic																		
S. S. Alvo, N. 35° 40′, W. 74° 00′ *	29.81	757.2	65	18.3		w.			6–7		8	wsw.	w.	0	0	high	wsw.	gale.
S. S. Andes, N. 34° 45′, W 74° 05′			70	21.1		sw.			6		10			0	0	h'vy	sw.	cloudy.
S. S. Alleghany, Hampton Roads, Va			48	8.9		sw.			2		10		w.	0	0			dense fog.
S. S. Ailsa, Kingston, Jamaica, W. I			73.2	22.9	92	ne.			1		5		ne.	0	0	sm'h		fair.
S.S. Arizona, N. 43° 24′, W. 52° 16′	30.31	769.9	41	5.0		s.			3		3		s.	0	0	mod.	s.	fair.
Schr. Arthur Burton, N. 26° 00′, W. 79° 55′						sw.			1		3		sw.	0	0	sm'h		fine.
S. S. Alps, Mayagues, Porto Rico. W. I*†	30.15	765 8	70	21.1		nne.			1		0			0	0	short		clear.
S. S. Adriatic, N. 48° 31′, W. 32° 50′			52	11.1		w.			4		5		nw.			mod.	nw.	fair.
Schr. Annie R Lewis, Cienfuegos, Cuba, W. I	30.12	765.0	72	22.2		calm			0		0			0	0			clear.
S. S. Circassian, N. 51° 30′, W. 32° 20′	30.42	772.7	45	7.2	92	wsw.			5		9		wsw.			3	ne.	overcast.
S. S. Caracas, La Guayra, Venezuela *†	30.01	762.2	75	23.9	95	calm			0				ene.	0	0	mod.	ne.	overcast.
S. S. Chalmette, N. 28° 30′, W. 88° 27′ *†	30.04	763.0	70	21.1		nw.			3		6		nw.	0	0	sm'h		foggy.
S. E. J. Spicer, N. 45° 35′, W. 17° 10	30.09	764.3	50	10.0	100	wnw.			6		10		nw.	hail	hail	high	wnw.	rainy.
S. S. England, N. 46° 43′, W. 43° 46′	30.53	775.4				sw.			4		10		sw.	0	0	mod	sw.	overcast
S. S. France, N. 49° 23′ W. 13° 41′	29.65	753.0				n.			6		10		n.	rain	rain	large	n.	cloudy.
S. S. Grecian, Dunquerque, France	29.59	751.6	50	10.0	72	sw			5		4		sw.	4 h'r	4 h'r			clear.
Bg. George. N. 31° 19′, W. 71° 18′ *†	30.15	765 8				wsw.			5		10		wsw.	0	0	r'gh	wsw.	threatening.
S. S. Hermann, N 49° 00′, W. 23° 05′	30.20	767.1	49.1	9.5	94	nnw.			7		10		nnw.	2 h'r	2 h'r	h'vy	nnw.	squally.
S. S. Holland, N. 45° 44′, W 47° 42′ *	30.32	770.1	42	5.6		ssw.			4		5		wsw.	0	0	mod.	wsw.	fair.
Bg. L. & W. Armstrong, N. 17° 50′, W 64° 40′	30.16	766.1				n.			2		2		nne.	¼ h'r	¼ h'r	sm'h	n.	clear.
S. S. Lessing, N. 49° 20′, W. 19° 04′	29.87	758.7	47	8.3		nw.			6		3		nw.	0	0	h'vy	nnw.	fair.
S. S. Main, N. 48° 57′, W. 32° 13′	30.54	775.7	51.8	11.0		wsw.			4		5		w.	4 h'r	4 h'r	mod	wsw.	showery.
S. S. Mentmore, N. 48° 03′, W. 41° 08′ *†	30.52	775.2	63?	17.2?		sw.			5		8		w.	0	0	con.		gloomy.
S. S. Marengo, N. 50° 17′, W. 3° 10′*†	29.34	745.2	49	9.4		ssw.			8		8		ssw.	4 h'r	4 h'r	r'gh	sw.	raining.
Schr. Maria Matilda, N. 26° 12′, W. 76° 45′						calm			0		7		calm	0	0	light	se.	fine.
S. S. Orinoco, N. 34° 50′, W. 67° 14′ †	30.06	763.5	68	20.0		sw.			5		9		sw.	0	0	long	var.	cloudy.
S. S. Ohio, (Am.) N. 40° 24′, W. 65° 33′ *†.	29.80	756.9	62	16.7	94	ssw.			4		9		w.	4 h'r	4 h'r	mod.	sw.	cloudy.
S. S. Pennsylvania, N. 50° 30′, W. 15° 05′			51	10.6	79	nnw.			6		5		nnw.	3 h'r	3 h'r	h'vy	nw.	squally.
S. S. Rhaetia, N. 48° 16′ W. 36° 47′			51	10.6	93	w			4		6		wsw.	0	0	mod.	w.	fair.
S. S. Rhein, N. 42° —′, W. 62° 22′	29.57	758.7				sw.			6		10		sw.	6 h'r	6 h'r	mod.	sw.	rain & fog.
S. S. Rhynland, Antwerp, Belgium	29.58	751.3	50	10.0	100	s.			3		10		s.	3 h'r	3 h'r			dull.
S. S. Republic, N. 51° 12′, W. 13° 46′*†	29.36	745.7	48	8.9		nnw.			7		8		nw.	0	0	r'gh	n.	cloudy.
S. S. Scandinavian, N. 49° 06′, W. 37° 45′	30.46	773.7	49	9.4		wsw.			6		7		wsw.	0	0	mod.	wsw.	d. clouds.
S. S. Samaria, N. 51° 23′, W. 13° 45′	29.32	744.7	49	9.4		nnw.			8		6		nnw.	5 h'r	5 h'r	h'vy	nnw.	cloudy.
S. S. Salier, N. 49° 12′, W. 14° 38′*	29 68	753.9				wnw.			7		10		wnw.	3 h'r	3 h'r	h'vy	wnw.	stormy.
S Salisbury, N. 18° 09′, W. 56° 07′	30.07	763.7	76.1	24.5	79	nw.			4	4 ck		sw.	nw.	½ h'r	½ h'r	long	nw.	fair.
Bk. Tuck Sing, N. 23° 05′, W. 84° 12′†*	30.12	765.0				calm			0		0			0	0	sm'h		clear.
S. S. Zeeland, N. 44° 35′, W. 53° 00′ *†.	30.34	770.6	36	2.2		ssw.			4		10		ssw.	0	0	sm'h		overcast.
S. S. State of Georgia, N. 40° 23′, W. 69° 00′†	29.67	753.6	47	8.3		ssw.			5		10			6 h'r	6 h'r	mod.	sse.	raining.
Schr. Adda Doane, Kingston, Jamaica, W I†	30.12	765.0				ne.			1		2		ne.	0	0	sm'h	e.	clear.
Bg. Alcira Maracaybo, Venezuela	30.01	762.2	78	25.6		ne.			1		2		ne.	0	0			clear.
S. S. Britannic, N. 44° 15′, W. 50° 15′ *†	30.30	769.6	41	5.0		s.			4		2		nw.	0	0	high	wnw.	blue sky.
Bk. Chas. Stewart, N. 36° 34′, W. 20° 00′*†	30.58	776.7				n.			6		10		nw.	0	0	r'gh	nw.	cloudy.
S. S. Donau, N. 44° 08′, W. 49° 50′	30.31	769.9	43.7	6.5		s.			4		2		s.	0	0	sm'h	s.	clear.
S. S. Gellert, New York, N. Y	29.59	751.6	45	7.2	92	n.			5		10		nw.	2 h'r	2 h'r			overcast.
S. S. Gallia, N. 46° 22′, W. 39° 55′	30.56	776.2	51	10.6		w.			6		10			light	light	sm'h		dull.
S. S. Labrador, N 42° 07′, W. 65° 16′ *†	29.65	753.0	37.4?	3?		sw.			5		10		sw.	¾ hr	¾ hr		sw.	covered
S. S. Habsburg, N. 49° 49′, W. 11° 15′	29.40	746.7				nw.			8		10		nw.	10 h'r	10 h'r	h'vy	w;nw	squally.
S. S. New York, N 35° 44′ W. 75° 00′ *†	29.80	756.9	60	15.6		sw.			7		10		sw.	6 h'r	6 h'r	h'vy	ssw.	cloudy.
S. Parker M. Whitmore, N. 25° 27′, W. 38° 33′*†	30.22	767.6	74	23.3		ese.			6		4		ese.	0	0	long	n.	fair.
S. S. Rialto, N. 45° 51, W. 23° 36′ †	30.40	772.1	50	10.0		n.			7		5		n.	6 h'r	6 h'r	high	nw.	cloudy.
T. S. Saga, N. 37° 05′, W. 74° 37′			53	11.7		sw.			4		8		sw;nw.	21½	hours	rg'h	var.	raining.
S. S. Virginian, N. 48° 07′, W. 37° 50′			54	12.2		s.			5				wsw.	0	0	mod.	s.	squally.
S. S. Wyoming, N. 48° 09′, W. 37° 37′	30.61	777.5	50	10.0		wsw.			6		5		wsw.	4 h'r	4 h'r	r'gh	wsw.	squally.
S. S. W. A. Scholten, N. 46° 28′, W. 69° 08′			43.0	6.1	100	sw.			4		10		sw.	12 h'r	12 h'r	5	sw.	raining.
S. S. Westphalia, N. 40° 53′, W. 66° 40′			46	7.8	100	s.			5		10		nw.	5 h'r	5 h'r	mod.	sw.	overcast.
S. S. St. Laurent, N. 47° 45′, W. 34° 30′	30.50	774.7	53.6	12		nw.			5		9		nw.	rain	rain	r'gh	nw.	overcast.
S. S. Crescent City, N. 23° 00′, W. 74° 17′*†	30.18	766.6	71	21.7		ese.			1								ne.	fine.
U. S. Navy Yard, Portsmouth, N. H.*	29.52	749.8	35	1.7	90	calm	0	0			10		nw.	0.1	3.			raining.
U. S. S. Alliance, off Porto Plata, San Domingo, W. I.	30.12	765.0	73	22.8	67	se.			2		2		s.	0	0	sm'h		fair.
U. S. S. Kearsarge, Civita Vecchia, Italy	30.31	769.9	57	13.9	81	sse.			3		10							cloudy.
U. S. S. Lancaster, Leghorn, Italy	30.23	767.8	59	15.0	100	sw.			2		8		sw.	0	0	sm'h		fair
U. S. S. New Hampshire, Newport, R. I	29.51	749.5	39	3.9	100	sw.			1		10					sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.17	766.3	58	14.4	82	sw.			2		5		sw.			sm'h		fair.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.07	763.3	73	22.8	76	ese.			1		2		ese.	0	0	sm'h		clear.
U. S. S. Tennessee, N 20° 14′, W. 84° 42′	30.07	763.8	76	24.4	86	ne.	13	5.8			2		se.	0	0	sll't	ne.	fair.
U. S. S. Trenton, Marseille, France	30.17	766.3	56	13.3	81	sse.			1		10							cloudy.
U. S. S. Vandalia, La Guayra, Venezuela	30.00	762.0	75	23.9	86	calm			0		8		e.					fair.
H. M. S. Alexandra, N. 35° 53′, E. 14° 31′ †	30.37	771.4	64	17.8	78	ssw.			2		1	ssw.						blue sky.
H. M. S. Alecto, N. 8° 36′, W. 13° 25′	29.93	760.2	80	26.7		nne.			1		1					2	wsw.	misty.
H. M. Dockyard, Bermuda, Atlantic	30.12	765.0	63	17.2	67	wsw.			2		5	wnw						d. clouds.
H. M. S. Minotaur, Cagliari, Sardinia	30.27	768.8	57.5	14.2	91	calm			0		0							blue sky.
H. P. M. S. Douro, Ajuda, W. Africa	29.91	759 6	84.2	29.0	86	ssw.			3		3		nw.	0	0	2	sw.	blue sky.
S. S. Lord Clive, N. 50° 12′, W. 22° 47′						nw.			6		6		nw.	0	0	high	w.nw	squally.
S. S. Nova Scotian, N. 48° 59′, W. 20° 26′	30.01	762.2	43	6.1		nw.			5		8		nnw.	0	0	long	nnw.	fair.
S. S. Prussian, N. 42° 24′, W. 67° 40′	29.65	753.1	41	5.0		ssw.			3		10		sw.	8 h'r	8 h'r	mod.	cross	foggy
S. S. Dorian, New York, N. Y	29.62	752.3				sw.			2		10		w.	0	0			dense fog.
S S. Llandaff City, New York, N. Y *†	29.66	753.4	39	3.9		w.			6		10			0	0			foggy.
S. S. Bothnia, N. 40° 43′, W. 62° 33′	29.85	758.2	65	18.3	94	s.			4		10		sw.	2 h'r	2 h'r	mod.	sse.	gloomy.
S. S. Hevelius, Liverpool, Eng			48	8.9		e.			6		5?		e.	6 h'r	6 h'r			overcast.?
S. S. Archimede, (It) Palermo, Sicily			66	18.9		ne.			3		1		ne.	0	0			clear.
S. S. Ontario, N. 43° 20′, W. 68° 18′	29.55	750.6	39	3.9		sw.			4		10			0	0	sm'h	se.	dense fog.
S. S. Erin, Gravesend, Eng *	29.59	751 6	56	13.3		sw.			6		6		sw.	4 h'r	4 h'r			fine.
S. S. Greece, N. 45° 14′, W. 42° 15′ †	30.62	777.7	51	10.6		s.			4		9		sse.	0	0	sm'h	ssw.	cloudy.
S. S. City of Augusta, New York, N. Y *†	29.67	753.6				nw.			3		8		nw.	0	0			cloudy.
S. S. Muriel, N. 28° 20′, W. 68° 23	30.18	766.6	75	23.9		calm			0		5			0	0	mod.	ne.	fair.
S. S. Waesland, N. 46° 52′, W. 41° 15′	30.54	775.7	51	10.6		ssw.			5		10		w.	0	0	mod.	n.	cloudy.
S. S. Westernland, N. 48° 03′, W. 32° 31′	30.61	777.5	50	10.0	79	wsw.			6		5		wsw.	12 h'r	12 h'r	r'gh	wsw.	squally.
S. S. State of Nebraska, N. 53° 46′, W. 23° 52′ *†	30.10	764.5	48	8.9		nne.			5		4		n.			con.		fine.
S. S. State of Nevada, Glasgow, Scotland *†	29.40	746.7	39	3.9		ene.			4		10		ene.	24 h'r	24 h'r			rainy.
S. S. Saxon, Boston, Mass*†	29.51	749.5	42	5.6		wsw.			1		10			0	0			foggy.
S. S. Celtic, Liverpool, Eng*†	29.18	741.2	52	11.1		sse.			5		10		s.	8 h'r	8 h'r			heavy rain.
S. S. Romano, N 39° 41′, W. 69° 30′			52	11.1		s.			4		10			0	0	h'vy	se.	dull.
S. S. Salerno, N. 46° 44′, W. 37° 47′			49	9.4		w.			3		10		w.	0	0	mod.	w.	fine.
S. S. Antonio Lopez, Cadiz, Spain	30.31	769.9				wnw.			2	6 c				0	0			fair.
Bgt. Achsah, Clementsport, N. S†	29.56	750.8	44	6.7		sw.			1		10		sw.	0	0			cloudy
Bk. Adelaide, N. 29° 30′, W. 46° 26′			73	22.8		sse.			6		7		sse.	4 h'r	4 h'r	r'gh	se.	threatening.
Bk. Benjamin Dickerman, N. 27° 18′, W. 85° 30′			73	22.8		calm			0		10?		nw.	2 h'r	2 h'r	short	se.	fair.?
Bk. Bayonnaise, N. 36° 55′ W. 17° 17′			57.2	14		nnw.			6		9n		nw.	40 mi	nutes	h'vy	nw.	
Bk. Celestina, N. 5° 08′, W. 25° 14′ *†	29.96	761.0				nne.			2		2		e.	0	0	long	sse.	hazy.
S. Dora, N. 57° 12′, W. 25° 40′ †	30.06	763.5	44.6	7.0		ssw.			5		3		sw.	2 h'r	2 h'r	long	w.	
Schr. Edith R. Seward, N. 39° 15′, W. 76° 35′						nw.			4		6			0	0			smoky.
Bk. Gloire, N. 29 41′, W. 22° 20′ *	30.32	770.1	72	22.2		nne.			4		2		ne.	0	0	long	nw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. Hedwig, N. 37° 30′, E. 16° 36′	30.47	773.9	58.6	14.8	72	nnw.			2		0			0	0	sm'h		clear.
Bk. Hattie G. McFarland, Ship Island, Miss.	30.06	763.5	52	11.1		w.			4					0	0			foggy.
S. Henry, N. 37° 00′, W. 0° 28′ *	30.25	768.3	57.4	14.1		sw.			4–5		10					3	wsw.	cloudy
Schr. John L. Thomas, South Hobbies Cays, C. A †	30.00	762.0	78	25.6	82	e.			3		1		e.	0	0	light	ne.	clear.
Bg. Lilian, N. 26° 03′, W. 60° 52′†	30.13	765.3	71	21.7		nne.			4		3		ne.	½ h'r	½ h'r	r'gh	var.	showery.
S. S. Laurel, Key West, Fla †	30.12	765.0	70	21.1		ese.			1		6		se.	0	0			fair.
Bg. L. F. Munson, Halifax, N.S			40	4.4		sw.			2		fg.			6 h'r	6 h'r			dense fog.
S. S. Madrid, Shields, Eng.			46	7.8	92	ssw.			3		10		ssw.	13 h'r	13 h'r			fair.
Schr. Minnie A. Bonsall, Jacksonville, Fla						sw.			1				w.	0	0			clear.
Schr. Norena, N. 24° 00′, W. 63° 30′ †	30.09	764.3				n.			2		9		ene.	0	0	mod.	var.	cloudy.
S. Stephen D. Horton, N. 46° 30′ W. 29° 30′†	30.56	776.2				nw.			5		5		nne.	1 h'r	1 h'r	mod.	une.	fair.
Bk. Silica, N. 38° 08′, W. 47° 46						ese.			8		10		ese.	sh'rs	sh'rs	h'vy	se.	showery.
Bg. Teneriffe, N. 30° 42′, W. 72° 18′	30.17	766.3				sw.			4		6		sw.	0	0	3	ne.	fine.
S. S. City of Alexandria, Vera Cruz, Mexico *†	30.08	764.0	72	22.2		wnw.			1							sm'h		d. clouds.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†	30.10	764.5	81	27.2		e.			2							sm'h		fine.
S. S. Schiedam, N. 46° 14′, W. 39° 20′*	30.59	777.0	53	11.7		var.			5							4	w.	rainy.
District No. 2—South Atlantic.																		
U. S. S. Pinta, S. 32° 40′ W. 49° 35′	29.83	757.7	69	20.6	75	s.			5		2		s.			mod	s.	clear.
H. M. S. Amethyst, S. 37° 55′, E. 56° 41′	29.79	756.7	64.5	18.1	75	calm			0		3	se.				4	se.	d. clouds.
H. M. S. Boadicea, S. 5° 58′, W. 14° 35′	29.92	760.0	79	26.1	91	ene.			1		5	ene.				2	ene.	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	29.98	761.5	74	23.3	63	se			7		3	se.						d. clouds.
Bk Godeffroy, S. 25° 38′, W. 22° 31′	30.05	763.3	78.4	25.8	79	nne.			4		4		nne.	rain	rain	mod.	n.	fair.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.10	764.5	84	28.9		wnw.			2		2		wsw.	0	0			clear.
Bkt. Levanter, S. 33° 44′, W. 51° 17′*	29.82	757.4	78	25.6		s.			4		2		s.	0	0	long	s.	clear.
S. St. David, S. 22° 55′, W. 24° 20′*†	30.16	766.1	81	27.2	74	ne.			3		3		ne.	0	0	long	sw.	fine.
Bk. Winifred, S. 23° 23′, W. 42 02′*†	29.80	756.9												0	0		se.	clear.
S. David Stewart, S. 6° 19′, W. 34° 42′ †	29.80	756.9	85	29.4		ene.			3		3		ese.	0	0	mod.	se.	hazy.
S. S. Teniers, S. 21° 23′, W. 38° 59′	29.79	756.7	79.5	26.4	82	wnw.			4	ck	8 k	ssw.	ssw.	0	0	4	ssw.	squally.
S. Oreola, S. 12° 56′, W. 31° 00′ *	29.96	761.0				e.			5		3		e.	0	0	sm'h		clear.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 19° 00′, E. 152° 42′	30.10	764.5	77	25.0	91	ne.			2		0					sm'h		clear.
U. S. S. Essex, Canton, China	30.22	767.6	56	13.3	75	n.			3		10		n.					overcast.
U. S. S. Juniata, Shanghai, China	30.61	777.5	35	1.7	90	n.			3		10			0	0			cloudy.
U. S. S. Monocacy, Shanghai, China	30.61	777.5	37	2.8	62	nnw.			2		10		nnw.					cloudy.
U. S. S. Palos, Tientsin, China	30.59	777.0	24	— 4.4		calm			0		0							clear.
U. S. S. Ranger, Corinto, Nicaragua	29.98	761.5	76	24.4	73	e.			1		2			0	0	mod.	ese.	fair.
H. M. S. Audacious, Hong Kong, China			61	16.1	94	ene.			3–5		8							squally.
H. M. S. Cleopatria, 24° 26′, E. 118° 05′	30.29	769.4	52	11.1	79	ene.			2–4		9					3		squally.
H. M. S. Champion, Shanghai, China			45	7.2	84	n.			2		10							overcast.
H. P. M. S. Tamega, Macao, China	30.24	768.0	61.7	16.5	82	n.			3		0			0	0			blue sky.
S. S. Oregon, N. 45° 50′, W. 124° 03′ †	30.08	764.0	43	6.1	75	n.			2		2		n.			sm'h		clear
S. S. Alameda, Honolulu, Sandwich Islands †	29.85	758.2	71	21.7		ne.			3		2		ne.	0	0			clear.
S. S. Ancon, Pillar Point, Cal. †			57	13.9	81	ne.			2		9		ne	1 h'r	1 h'r			cloudy.
S. S. City of Chester, Hookton, Cal †	29.93	760.2	44	6.7	92	calm			0		0			0	0			clear.
S. S. Queen of the Pacific, N 40° 50′ W. 124° 35′	29.86	758.4	51	10.6	93	n.			1		2?		n	0	0	sm'h		overcast.?
S. S. State of California, San Francisco, Cal. †	29.85	758.2	46	7.8	92	se.			3		10		sse.					cloudy
S. S. City of Rio de Janeiro, N 27° 59′, W. 165° 23′†	30.22	767.6				s.			4		4		se.			mod.	nw.	fair.
S. S. Granada, N. 7° 10′, W. 80° 38′ †	29.87	758.7	78	25.6	82	nnw.			2		0			0	0	light	ne.	clear.
S. S. San Blas, N. 11° 31′, W. 87° 27′ †	29.96	761.0	77	25.0	91	ene.			6		3		ne.	0	0	r'gh	ne.	clear.
S. S. Zealandia, N. 5° 45′, W 104° 06′			81	27.2	87	e.			4		2		e.	2 h'r	2 h'r	long	e.	fine.
S. Carondelet, N. 2° 05′, E. 139° 24′*†	29.93	760.2				wsw.			4		0?			9 h'r	9 h'r	mod	nne.	rainy?
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 5° 38′, W. 108° 03′	29.89	759.2	75	23.9	95	ese.			4		2		ese.	0	0	sm'h	se.	clear.
U. S. S. Onward, Callao, Peru*†	30.04	763.0	71	21.7	100	se.			2		10		se.			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru.*	29.98	761.5	72	22.2	95	se.			2		5		calm			mod.	nw.	fair.
H. M. S. Espeigle, S. 43° 37′, E. 172° 44′	30.10	764.5	55	12.8	87	calm			0		10							raining.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.03	762.7	62.3	16.8	89	ssw.			2		4					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.75	755.6	58	14.4	100	calm			0		10							overcast.
S. S. Australia, S. 34° 09′, E. 158° 13′	30.22	767.6	70	21.1	95	n.			5		5?		n.	0	0	mod.	nnw.	overcast ?
S. Grecian, S. 54° 55′, W. 87° 27′ †.	29.75	755.6	48	8.9	70	ssw.			5		2		ssw.	hail	hail	mod.	sw.	clear.
S. Ismir, S. 29° 31′, W. 88° 09′*†	30.15	765.8				se.			5		1		se.	0	0	r'gh	sse.	
S. St. Francis, S. 10° 00′, W. 105° 00′ *†	30.00	762.0	74	23.3	81	se.			5		2		se.	0	0	mod.	se.	clear.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.89	759.2	67	19.4		calm			0		10					sm'h		
H. M. S. Sylvia, off Sandy Point, Patagonia	29.47	748.5	50	10.0	79	sw.			4		10							d. clouds.
S. S. George S. Homer, S. 56° 01′, W. 76° 37′ *†	29.65	753.1				wnw.			6		5		var.	4 h'r	4 h'r	mod.	var.	fair.
S. Henry Failing, S. 55° 55′, W. 82° 13′*†	29.65	753.1	44	6.7		se.			6		5		sse.	8 h'r	8 h'r	sm'h	sw.	fair.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, S. 26° 28′, E. 48° 25′*	29.88	758.9	80	26.7	74	ese.			2		8		calm	0.02	0.5	mod.	se.	cloudy.
H. M. S. Euryalus, Suakin, Egypt	30.05	763.3	72	22.2	80	ne.			3		0							blue sky
H. M. S. Tourmaline, Tamatave, Madagascar	29.75	755.6	83	28.3	83	sse.			1		3							d. clouds.
S. S. Port Phillip, S. 32° 32′, E. 110° 11′	29.92	760.0	70	24.4	68	se.			1							r'gh		cloudy.
S. S. Radnorshire, Shadwan Island, Red Sea *†	30.14	765.3				nnw.			6		1		nnw.	8 h'r	8 h'r	mod.	nnw.	clear.
S. S. Lepanto, N. 28° 52′, E. 32° 47′	30.16	766.1	62	16.7		nnw.			2		1		nw.	0	0	sm'h		clear.
H. M. S. Magpie, N. 6° 32′, E. 99° 16′	29.86	758.4	83.4	28.6	71	n.			1		0							blue sky.

International Chart I. February 1, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 2, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.26	768.6	61.2	16.2	91	ne.			1		3			0	0	pretty fair	Roziere.
Algiers			30.21	767.2	60.1	15.6	83	w.			3		2			0	0	fair	Théve.
La Calle			30.24	768.0	64.4	18.0	73	se.			1		1			0	0	very fair	Fonfrède.
Tunis			30.33	770.4	55.4	13.0	66	sw.			2		0			0	0		Delord.
Geriville					59.0	15.0	23	sw.			4		0			0	0	clear	Forfert.
Laghouat			30.38	771.7	66.6	19.2	83	se			1		0			0	0	clear	Abraham.
Biskra			30.37	771.5	60.8	16.0	46	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.79	756.7	63.7	17.6	61	ssw.	19	8.5			10 k			0	0	cloudy	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.25	742.9	29.44	747.8				w.	5	2.2			10		w.	0.42	10.7	misty	Com. J. Shortt, R.N.
Melbourne, Victoria	29.49	749.0	29.58	751.3	58.0	14.4	93	s.	11	4.9			10					showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.45	748.1	30.00	762.0	56.3	13.5	45	sw.			6		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.05	737.8	29.82	757.4	47.5	8.6	60	wsw.	13.0	5.8			8			0.016	0 4		Dr. Wierzbiski
Eperies	29.05	737 8	29.96	760.9	38.3	3.5	88	s.			2		10			0	0	foggy	Julius Mikolik.
Gratz	28.74	730.1	30.01	762.2	48.4	9.1	63	w.			1		8			0	0		Andreas Rospini.
Hermannstadt	28.55	725.2	30.01	762.2	46.6	8.1	81	nw.			2		10			0.075	1.9		Prof. A. Gottschling
Kremsmunster, Obs'y	28.60	726.5	29.96	760.9	47.8	8.8	51	w.			2		7			0	0	fair	The Staff.
Lemberg	28.55	732.7	29.85	758.1	44.4	6.9	73	nw.			3		2			0.075	1.9		Dr. T. Stanecki.
Pola	29.98	761 4	30.09	764.3	54.0	12.2	87	sse.			4		9			0	0		I. R. Hydrographic Office.
Szathmar	29.49	749.1	29.97	761.2	42.8	6.0	84	w.			5		8			0	0		Joseph Midlinszky, S. J
Szegedin	29.74	755.3	30.02	762.5	51.8	11.0	77	sw.			1		6			0.047	1.2		Karl Stancel.
Trieste	30.03	762.8	30.13	765.3	51.6	10.9	85	calm			0		10			0.165	4.2		Royal Academy.
Vienna	29.27	743 4	30.00	761.9	48.2	9.0	63	s.			1		8			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.46	722.8	29.87	758.6	41.4	5.2	95	sw.			2		3			0.433	11.0	raining	
Brussels	29.60	751.7	29.80	756.9	43.5	6.4	90	n.			2		10		wsw.	0.299	7.6	raining	
Furnes	29.71	754.5	29.72	755.0	44.6	7.0	94	n.			1		10			0.055	1.4	raining	
Maeseyck	29.70	754.3	29.82	757.5	43.7	6.5	96	w.			1		10			0.307	7.8	raining	
British.																			
Aberdeen	30.10	764 5	30.20	767.1	33.7	0.9	62	wnw.	18	8.0			3			0.010	0.3	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			30.17	766.3	37.8	3.2	67	n.	20	8.9			3					blue sky	John Hartnup.
Bolton, Sharples	29.61	752.1	30.16	766.1	37.4	3.0	69	nne.	18	8.0			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.73	755.1	30.13	765.3	36.3	2.4	83	ne.			2		9			1.13	28.7	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.08	764.0	30.11	764.8	80	26.7	78	ne.			1		3					blue sky	Corp'l C. McGregor, A.H.C
Cardington					39.0	3.9	68	ne.			3.0		6					d. clouds	John McLaren.
Chatham, School M. E.	29.73	755.1	29.90	759.4	39.1	3.9	84	n.			4		10			blank	blank	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.86	758.4	30.10	764.5	41.6	5.3	62	n.			6		6					d. clouds	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.72	754.9	29.95	760.7	83	28.3	83	ne.			3		2					d. clouds	J. W. Smith.
Galway, Queen's College	30.27	768 8	30.31	769.9	37	2.8	71	ne.			3		7			0.04	1.0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.11	764.8	30.16	766.1	57.6	14.2	95	nw.			3		10					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.77	756.1	29.94	760.5	39.7	4.3	69	ne.					10					overcast	The Staff.
Guernsey	29.69	754.1	30.00	762.0	42.0	5.6	96	ene.			5		10					raining	A. Collenette, F.R.M.S.
Kew, Observatory	29.93	760.2	29.97	761.2	40.7	4.8	61	ne.	37	16.5			9					d. clouds	The Staff.
Leicester, Museum	29.80	756.9	30.06	763.5	40.4	4.7	69	n.			2		2					d. clouds	J. C. Smith.
Malta, Mediterranean	30.11	764 8	30.18	766.6	63.8	17.7	75	sw.			2					0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.18	766.6	67.0	19.4	74	s.			1		0					blue sky	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.78	756.4	30.01	762.2	40.4	4.7	61	n.			6		10					threatening	The Staff.
Plymouth	29.96	761.0	30.04	763.0	40.2	4.6	70	ne.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.98	761.5	30.08	764.0	37	2.8	88						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.01	762.2	30.08	764.0	55.2	12.9	62	sw.			1		0					blue sky	W. H. Lyne.
Sheffield	29.86	758.4	30.16	766.1	39.0	3.9	40	ne.			2		6					d. clouds	W. F. Cooper.
Siloth Rectory	30.21	767.3	30.24	768.1	35.8	2.1	93	n.			3		0			0.105	2.7	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.18	766.6	36.0	2.2	61	nne.	18	8.0			6			0.149	3.8	d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					40.4	4.7	69	ne.			2.5		9					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.38	771.6	30.41	772.4	41.9	5.5	52	nne.	18	8.0			7					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.82	757.4	30.21	767.3	61.0	16.1	79	sw.	6.8	3.0		0	0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.					6.0	—14.4		w.	2.5	1.1		4 k	0			0.300	7.6	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.90	759.4	29.95	760.7	9	—12.8	89	nw.	9	4.0			10 s		calm	0.230	5.8	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.97	761.2	30.04	763.0	— 3	—19.4		w.	3	1.3		0	0			0.27	4.3	clear	G. A. Blair.
Cornwall, Ontario	29.73	755.1	29.95	760.7	5.0	—15.0	90	e.			1		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.98	761.5	30.03	762.7	—3.0	—19.4		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.07	763.8	30.09	764.3	— 1	—18.3	100	nw.	18	8.0		0	2 s		calm	0	0	clear	J. McWilliams
Fort Garry, Manitoba*	29.45	748.0	30.43	772.9	—19	—28.3	100	n.	7	3.1		0	0			0.03	0.8	clear	James Stewart.
Fredericton, N. B.	30.03	762.7	30.10	764.5	— 0.9	—18.3	97	w.	9.0	4.0		0	0			0.480	12.2	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	30.04	763.0	30.10	764.5	10	—12.2	80	nw.	13	5.8		2 k	0		nw.	0.31	7.9	fair	J. Chipman Seeley
Granton, Ontario	28.70	729.0	29.85	758.2	30.0	— 1.1	100	w.	9	4.0			10 n			inap.	inap.	overcast	Jas. Grant.
Halifax, N. S*	29.87	758.7	30.01	762.2	16	— 8.9	91	w.	6	2.7		0	2 k			0.278	7.0	fair	A. Allison.
Hamilton, Ontario	29.46	748.3	29.88	758.9	29.7	— 1.3	83	sw.			1	8 ck	0		w	0	0	d. clouds	Geo. Dickson, B.A.
Kingston, Ontario*	29.58	751.3	29.94	760.5	16	— 8.9	83	s.	15	6.7			10 n		s.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.84	757.9	29.88	758.9	22.0	— 5.6	76	w.	3	1.3		0	0			0	0	blue sky	C. H. Rigby.
London, Ontario	28.93	734.8	29.86	758.4	31.3	— 0.4	89	w.			3		10 n			0.10	2.5	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27 83	706.9	30.30	769.6	— 3	—19.4	75	ne.	10	4.5			10 n			0.02	0.5	cloudy	John Ewart.
Minnedosa, N. W. T.	28.23	717.0	30.46	773.7	—15	—26.1	100	n.	4	1.8		0	0			0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.83	757.7	30.06	763.5	2	—16.7	79	s	16	7.2		8 c	2 s		sw.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.74	755.4	29.99	761.7	— 0.7	—18.2	95	nw.					10 s			0.10	2.5	snowing	A. McGill, M. A.
Parry Sound, Ontario*	29.07	738.4	29.82	757.4	16	— 8.9	83	s.	9	4.0			10 n		s.	0.03	0.8	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.06	738.1	29.83	757.7	22.4	— 5.3	83	calm			0		10 k			0.13	3.3	snowing	Wm. O'Connor, M.A.
Port Arthur	29.45	748.0	30.25	768.3	— 5	—20.6	91	nw.	5	2.2		0	0			0.11	2.8	clear	W. P. Cooke.
Port Dover, Ontario	29.15	740.4	29.87	758.7	31	— 0.6	100	sw.	15	6.7			10 n		sw.	0.08	2.0	threatening	H. Morgan
Port Stanley, Ontario	29.22	742 2	29.89	759.2	31	— 0.6	88	sw.	16	7.2			10 n		w.	0.05	1.3	cloudy	M. Payne.
Qu Appelle, N. W. T	27.96	710.2	30.50	770.2	—11	—23.9		calm	0	0		8 ck	0		nw.	0.10	2.5	cloudy	Leslie Gordon.
Quebec, Quebec*	29.72	754.9	30.12	765.0	— 6	—21.1	79	sw.	10	4.5		10 cs	0		sw.	inap.	inap.	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.38	746.2	29.88	758.9	4	—15.6	54	e.	8	3.6			10 n			inap.	inap.	light snow	W. H. McIntyre.
St. Andrews, N. B.	30.04	763.0	30.10	764.5	5	—15.0	87	nw.	8	3.6		0	0			0.28	7.1	clear	
St. John, N. B	29.93	760.2	30.08	764.0	25.2	— 3.8	96	nw.	8	3.6		0	0			0.305	7.8	blue sky	G. Hutchinson.
St. Pierre, N. F.			29.57	751.0	34.9	1.6		w.			3								The Commandant.
Saugeen, Ontario*	29.07	738.4	29.82	757.4	27	— 2 8	59	w.	12	5.4			10 s			0.07	1.8	cloudy	
Stratford, Ontario	28.51	724.1	29.84	757.9	29.1	— 1.6	79	w.	13	5.8			10 n			0.120	3.0	snowing	W. McBride, M.A.
Sydney, C. B*	29.73	755.1	29.80	756.9	20	— 6.7	76	w.	15	6.7		0	0			0.99	25.1	clear	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian—Continued.																			
Toronto, Ontario	29.45	748.0	29.85	758.2	25	— 3.9	92	w.	6	2.7			10 n			0.05	1.3	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.77	730.7	29.88	758.9	30.8	—0.7	87	sw.	20	8.9			10 s			0.250	6.3	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.01	762.2	30.08	764.0	16	— 8.9	64	n.	16	7.2		0	5 k		w.	0.23	5.8	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.04	763.9	30.07	763.8	75.0	23.9	90	ene.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.81	757.2			88.0	31.1	30	n.				0	0			0	0		Capt.R.Gardner Warton
Springbok Fontein	27.83	706.9			95	35.0	34									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.86	758.4	29.93	760.3	66.7	19.3	88	n.			3	10						cloudy	Samuel Redolez.
Iquique	29.80	757 0	29.83	757.7	75.2	24.0	74	sw.			2	6 c						foggy	Rafael Moreno.
Niebla	29.64	752 9	29.75	755.6	59.0	15.0	72	e.			1	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.81	757.2	29.90	759 4	71.6	22.0	86	sw.			1	10 cs		sw.				cloudy	Manuel Tobar.
Punta Corona	29.98	761.4	30.16	766.1							4		10			0	0	cloudy	Francisco Alvarado.
Valparaiso	29.82	757.4	29.96	760.9	65.8	18.8	85	sw.			0	0	0					clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.45	773.3	30.47	773 9	35.8	2.1	71	ne.	4.0	1.8			10			0.260	6.6	snowing	M.Marc Dechevrens,S. J
Danish.																			
Copenhagen	29.69	754.0	29.73	755.2	32.9	0.5	83	nne.	13	6.			10						Oversergent Fischer.
Fanöe	29.81	757.1	29.83	757.6	33.3	0.7	90	ne.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.54	750.2	29.58	751.3	0.3	—17.6		nnw.			4		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.43	747.6	29.45	748.1	9.3	—12.6		calm			0		10						
Jacobshavn, Greenland	29.57	751.0	29.61	752.2	—13.2	—25.1		calm			0		4						
Stykkisholm, Iceland	28.95	735.2	28.99	736 3	33.4	0.8	90	sw.			7		10					snowing	A. O. Thorlacius.
Thorshavn	29.71	754 6	29.73	755.2	39.9	4.4	93	nw.	29	13.			10					raining	Overloerer Bergh.
Upernavik, Greenland	29.48	748.8	29.53	750 0	—15.0	—26.1		sw			4.		10					hazy	
Vestervig	29.74	755.5	29.84	757.8	33.4	0.8	70	ne.			6		0						Loerer Oesterbol.
Egyptian.																			
Cairo	29.99	761.7			65.3	18.5		sw.	1.1	0.5		0	8 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.49	749.0	30.15	765.8	45.7	7.6	86	s.			1		10 n		sw.	0.047	1.2		M. Labroue, Director.
Alençon, Normal School	29.32	744.6	29.87	758.6	46.4	8	81	nnw.			1		10 n		sse.	0	0	covered	M. Nicot, Director
Arras, Normal School					44.6	7	88	w.			1		5	w.	w.	0.16	4.	cloudy	M.Ungerer, Director.
Avignon, Normal School	30.00	762.0	30.08	764.0	51.1	10.6	86	nnw.			1		10			0.12	3.	light rain	M. Giraud, Director.
Bar-sur-Seine	29.39	746.4	29.95	760.7	47.5	8.6	72	s.			6		8		wsw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.52	749.8	29.79	756.7	47.3	8.5	76	sw.			4		10		sw.	0.051	1.3	covered	M. Frère Eugène Mariè.
Besançon, Normal School	29.04	737.6	29.89	759 2	56.3	13.5	61	sw.			6		cn		ne.	0.059	1.5		M. Gobin, Director.
Bordeaux, Observatory	29.76	756.0	30.03	762.7	52.3	11.3	70	ssw.			1		8			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.38	746.2	29.93	760.3	50.4	10.2	97	wsw.			6	ck	n		wsw.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.75	755.7	30.00	761.9	44.2	6.8	94	nne.			2		10		nne.	0.059	1.5	raining	M. de Kermarée, Dir.
Caen, Normal School	29.75	755.7	29.83	757.6	48.9	9.4	97	nw.			1		10			0.31	8.	raining	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.49	749.1	29.81	757.2	49.5	9.7	79	ese.			6		5		w	0.091	2.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.28	746.2	29.90	759 4	46.8	8.2	65	sw.			1		10			0.472	12.0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.64	727.5	30.00	762 0	52.9	11.6	46	wsw.			1		8		ssw.	0.059	1.5		M. Allnard, Director.
Cluny, Normal School	29.16	740.7	30.02	762.4	51.1	10.6	54	ssw.			1		2		sw.	0.110	2.8	slightly cl'dy	M. de Villemontée, Dir.
Commercy, Normal School	29.07	738.3	29.94	760.4	46.9	8.3	75	sw.			4		2 n	sw.	sw.	0.094	2.4	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.53	699.2	30.13	765 2	41.4	5.2	91	calm			0		8 n			0	0	foggy	M. Jarach, Director.
Greasque, du Rhone	28.92	734.6	30.08	763.9	51.4	10.8	75	se.			1		9		se.	0.016	0.4		M. Kina, Director.
Grenoble, Normal School	29.27	743.5	30.06	763 5	43.9	6.6	82	wnw.			1		10			0	0	covered	M. Ablard, Director.
Guéret, Normal School	28.39	721.0	29.98	761.5	42.8	6	91	s.			4		n		n.	0.335	8.5		M. Delorme, Dir.
Lescar, Normal School	29.47	748.6	30.04	763 1	49.6	9.8	60	nw.			4		8	w.		0.008	0.2	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.84	757.8	29.94	760.4	53.6	12.0	57	wsw.			1		5		w.	0.197	5.0	½ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28 98	736.0	30.05	763.2	48.2	9.0	65	ssw.			2		8 n			0	0	very cloudy	M. André, Director.
Mans, Normal School	29.58	751.3	29.89	759.2	48.0	8.9		wnw.			4		5 kn		w.	0	0	cloudy	M. Richard, Director
Marseille, Observatory	29.79	756.6	30.06	763 5	58.5	14.7	69	sse.			0–1		10		sse.	0	0		M. Stephan, Director.
Montlouis	21 78	629.3	29.62	752.3	37.0	2.8	66	wsw.	11.2	5.0			7			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.95	760.6	30.06	763.4	48.9	9.4	92	n.			2		5			0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.15	740.4	29.94	760.4	47.1	8.4	65	ssw.			4		kn		sw.	0.059	1.5		M. Hasse, Director.
Nantes, Observatory	29.78	756.5	29.95	760.6	51.1	10.6	70	wsw.			0–1		6 k;kn		wsw.	0.445	11.3		M. Larocque, Director.
Perpignan, Observatory	29.96	760.9	30.07	763 8	53.6	12.0	59	ne.	3.8	1.7			10			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.04	534 5			17.1	— 8.3		sw.			2				sw.	0	0	foggy	M. Vaussenat, Director.
Privas, Normal School	29.05	737.8	30.13	765.4	48.2	9	73	w.			1		n		w.	0.134	3.4		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.04	635.9			28.4	— 2.0	98	sw.			6		8		sw.	0.087	2.2		M. Allnard.
Rochefort, Naval Obs'y	29.93	760 3	29.97	761 1	51.4	10.8	77	ssw.			4		5		sw.	0.20	5.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.71	754 7	29.93	760.2	51.4	10.8	73	sw.			1				ne.	0.335	8.5		M. Brotier, Director.
Rodez, Normal School	27.89	708 5	30.10	764.4	44.1	6.7							5 kn		e.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.69	754 2	29.74	755.4	46.4	8	97	sw.			1		5	sw.		0.035	0.9	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.68	753.9	29.85	758.1	49.3	9.6	66	sw.			4		10		wsw.	0.024	0.6	covered	M. Renou, Director.
Toulouse, Observatory	29.37	746.0	30.10	764.4	50.4	10.2	72	nw.			1		8	w.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.74	755.3	29.92	760 0	51.8	11.0	86	w.			4		10	wnw.	w.	0.669	17.0	raining	M. de Tastes.
Versailles, Observatory	29.33	744 9	29.82	757.4	48.6	9.2	66	w.			6		5			0.079	2.0	cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.95	760.7	30.10	764.5	48.6	9.2	86	se.	7.8	3.5		c	9 k	w.		0.075	1.9		M. Cartier, Director.
German.																			
Ansbach	28.47	723.1	29.94	760.4	47.1	8.4	59	sw.			4		6	sw.		0.028	0.7		Prof. Jnedt.
Bamberg	29.04	737.6	29.88	758.9	47.1	8.4	66	se.			2		7 8			0.038	1.0		Prof. Dr. Hoh.
Berlin	29.59	751.6	29.74	755 3	45.1	7.3	73	sw.			3		9			0.047	1.2		Meteorological Institute
Breslau	29.30	744.2	29.83	757.6	48.7	9.3	53	wsw.			4		10			0	0		Royal University Obs'y
Carlsruhe	29.45	748.1	29.91	759.8	51.8	11.0	50	sw.			7		9	sw.		0.043	1.1		Albert Senz.
Cassel	29.09	738.8	29.80	756 9	43.2	6.2	85	s.			4		9	s.		0.047	1.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.48	748.9	29.86	758.4	48.4	9.1	71	sw.			2		9			0.067	1.7		Physical Society.
Friedrichshafen	28.56	725.5	30.01	762.2	45.3	7.4	73	sw.			3		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.67	753.7	29 76	756.0	38.3	3.5	87	n.			3		10			0.236	6.0	rainy	E. Prefier.
Kiel	29.75	755.6	29.76	756.0	38.3	3.5	82	n.			1		10			0.598	15.2		Prof. Dr.G. Karsten.
Leipsic, Astron'l Obs'y	29.39	746.4	29.82	757.3	43.3	6.3	84	sw.			2		10	wsw.				light rain	H. Leppig, Asst.
Magdeburg	29.55	750.6	29.74	755 4	46.0	7.8	75	wsw.			3		1 k			0.031	0.8		Weather Observatory.
Memel	29.53	750.0	29.58	751.2	35.8	2.1	82	nw.			4	9 cs							Isserimann.
Munich	28.13	714 6	29.99	761.8	48.4	9.1	43	nw.			2		2	s.		0.012	0.3		Central Station.
Neufahrwasser	29.61	752.1	29.63	752 5	39.6	4.2	89	nw.			2		10			0.134	3.4		A. Lothes.
Neustadt, Palatinate	29.32	744.6	29.84	757.9	49.1	9.5	61	w.			3		3	w.		0	0		Prof. Dicknether.
Stuttgart	28.97	735.7	29.86	758.4	51.8	11.0	43	sw			4		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.64	752.8	29.66	753 4	36.0	2.2	98	n.			3		8 s			0.350	8.9		Profs. Brandes & Reimer
Greek.																			
Athens	29.76	755.9	30.14	765.6	60.8	16.0		s.			2.0	0	0			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.87	758.6	29.92	760.0	73.7	23.2	75	wsw.	23.0	10.3			8			0	0	d. clouds	
Deesa	29.45	748.0	29.93	760 0	81.2	27.3	20	wsw.	7.0	3.1			4	wsw.		0	0	d. clouds	
Bombay	29.89	759.1	29.92	760.0	78.3	25.7	64	nnw.	13.0	5.8			0			0	0	blue sky	
Poona, Yarrowda	28.06	712.6	29.91	759.6	81.3	27.4	20	ne.	6.0	2.7			0?			0	0	d. clouds?	
Belgaum	27.36	694.8	29.87	758.7	81.6	27.6	23	calm	0	0			2	w.	e.	0	0	d. clouds	
Lahore	29.18	741.0	29.95	760.7	62.6	17.0	49	ne.	4.0	1.8			6			0	0	d. clouds	
Roorkee	28.99	736.3	29.91	759.6	68.7	20.4	27	w.	1.0	0.4			4	w.		0	0	d. clouds	
Agra	29.36	745.7	29.93	760 3	75.2	24.0	50	w.					0			0	0	blue sky	
Nagpur	28.91	734.3	29.96	761.1	76.0	24.4	23	sse.	4.0	1.8			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.61	726.6	29.99	761.8	69.7	20.9	39	calm	0	0			1			0	0	blue sky	
Lucknow	29.55	750 6	29.94	760.5	70.2	21.2	23	w.	3.0	1.3			0			0	0	blue sky	
Allahabad	29.63	752.6	29.95	760.8	69.4	20.8	48	calm	0	0			1	w.		0	0	d. clouds	
Patna	29.74	755.5	29.94	760.4	67.8	19.9	37	wnw.	4.4	2.0			0			0	0	blue sky	
Hazaribagh	27.90	708.6	29.97	761.2	63.7	17.6	28	wnw.	6.0	2.7			0			0	0	blue sky	
Cuttack	29.89	759 3	29.98	761.4	72.0	22.2	41	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.95	760.7	29.97	761.2	66.9	19.4	50	wsw.	2.5	1.1			0			0	0	blue sky	
Dhubri	29.85	758.2	29.97	761.3	63.4	17.4	41	calm	0	0			0			0	0	blue sky	
Chittagong	29.89	759.2	29.98	761.6	66.4	19.1	51	wnw.	2.6	1.2			0			0	0	misty	
Sibsagar	29.65	753.0	30.00	762.0	57.9	14.4	88	ne.	2.0	0.9			2			0	0	blue sky	
Jeypore	28.44	722.4	29.9	759.5	75.4	24.1	38	sw.	7.5	3.4			5	sw.		0	0	d. clouds	
Zanzibar	29.80	756 8	29.82	757.4	85.6	29.8	65	ene.	9.8	4.4			1	ene.		0	0	d. clouds	
Bellary	28.41	721.6			83.5	28.6	31	e.	2	0.9		3 c	0			0	0	d. clouds	
Trichinopoly	29.65	753 1			84.3	29.1	30	ne.	0.1	0.04		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.67	753 5	30.09	764.3	50.9	10.5	82	calm	0	0			10			0.055	1.4		Prof. Giovanni Clodig.
Milan	29.59	751.6	30.13	765.3	42.1	5.6	88	sw.	3.1	1.4			10	sw.		0.425	10.8		Prof. G. V. Schiapparelli
Padua	29.97	761.3	30.09	764.2	46.6	8.1	82	nnw.	1.3	0.6			10	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.18	741.2	30.12	765.0	44.2	6.8	82	nnw.	0.7	0.3			10			0	0		Prof. F. F. Denza.
Genoa	29.88	759 0	30.08	764.0	54.5	12.5	65	s.	4.9	2.2			10	s.		0.327	8.3		Prof. G. M. Garibaldi.
Pesaro	30.05	763.3	30.10	764.6	57.9	14.4	61	sw.	8.1	3.6			10	sw.		0	0		Prof. Luigi Guidi.
Florence	29.84	758.0	30.10	764.6	55.2	12.9	75	s.			2		10	s.		0	0		Prof. Costantino Pittei.
Leghorn	29.96	760 9	30.03	762.7	58.3	14.6	72	s.	7.4	3.3			10	sw.		0	0		Prof. P. Monte.
Rome	29.98	761.5	30.16	766.0	57.6	14.2	62	sse.	9.4	4.2			10	s.		0	0		Prof. P. Tacchini.
Lecce	29.94	760.4	30.20	767.0	58.6	14.8	72	sse.	9.4	4.2			2	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.28	743.6	30.19	766.9	52.9	11.6	76	ese.	1.8	0.8			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.93	760.2	30.19	766.7	58.3	14.6	65	ne.	2.5	1.1			0			0	0		Prof. G. Cacciatore
Syracuse	30 10	764.5	30.15	765.7	59.0	15.0	68	sse.	3.8	1.7			0			0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.67	753.7	30.21	767.3	54.9	12.7	77	sw.	0.7	0.3			10	wsw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.09	764.2	30.12	765.1	27.2	— 2.7	79	nw.			7		10 n			0.220	5.6	snowing	H. Hattori.
Awomori	29.99	761.7	30.03	762.7	22.7	— 5.2	91	w.	16.2	7.2			10 n			0.441	11.2	snowing	K. Ogawa.
Hakodate	29.97	761 2	29.98	761.5	20.8	— 6.2	83	nw.	19.8	8.8			10 n			0.036	0.9	covered	Y. Souma.
Hamamatsu	30.15	765.8	30.25	768.5	33.3	0.7	70	w.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.36	771.3	30.38	771.7	34.7	1.5	63	w.	1.5	0.6			10 ck		nw.	0	0	cloudy	Y. Okamoto.
Kagoshima	30.41	772.3	30.42	772.6	38.4	3.6	73	calm			0		10 s		w.	0	0	overcast	
Kanazawa	30.15	765.7	30.26	768.5	30.8	— 0.7	88	e.	6.4	2.9			10 n			0.410	10.4	snowing	S. Endo.
Kioto	30.11	764.8	30.28	769.2	33.0	0.6	94	wsw.	0.7	0.3		0	18;ck			0	0	clear	M. Tojima.
Kochi	30.32	770 2	30.34	770.7	34.5	1.4	70	w.	5.2	2.3		0	0			0	0	clear	K. Kusunose.
Miasaka	30.36	771.1	30.39	771.8	36.5	2.5	67	wnw.			2	2 ck	3ks;s	w.	w.	0	0	fair	K. Masusaki.
Miyako	29.89	759.2	30.00	762.0	28.4	— 2.0	46	sw.	3.7	1.6		0	5 s		nw.	0	0	fair	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.22	767.6	30.43	772.9	33.7	0.9	73	calm	0	0		2 cs	5 s	w.	nw.	0	0	cloudy	
Nemuro	29.76	755.9	29.81	757.2	23 5	— 4.7	53	sw.	9.6	4.3			10 n					snowing	A Shibuya.
Niigata	30.14	765.5	30.17	766.3	35.0	1.7	88	nw.	11.7	5.2			10 ks		nw.	0	0	cloudy	Satoo & Tomikawa.
Nobiru	30.05	763.3	30.07	763.7	29.9	— 1.2	95	w.	4.9	2.2		0	1 ks		w.	0	0	fair	Yoshino & Midzushina.
Numadzu	30.15	765.8	30.18	766.6	31.8	— 0.1	66	e.			2	0	0			0	0	clear	T. Ohgi.
Osaka	30.29	769.2	30.30	769.7	31.8	— 0.1	90	ne.	1.5	0.6		0	0			0	0	clear	H. Omura.
Sakai	30.32	770.1	30.33	770.3	32.8	0.4	78	w.			2		10 ks		nw.	0.342	8.7	cloudy	Yamawchi & Sakamoto.
Sapporo	29.86	758.5	29.93	760.3	9.5	—12.5	98	calm	0	0		0	1 ks			0.240	6.1	clear	S. Kimura.
Shimonoseki	30.25	768.3	29.39	772.0	36.0	2.2	69	sw.			2		10 ks		nw.	0	0	cloudy	S. Sakano.
Wakayama	30.27	768.9	30.33	770.3	37.4	3.0	62	nw.	4.0	1.8		7 cs	3 ck			0.010	0.3	cloudy	K. akai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.68	753.9	29.87	758.7	80.8	27.1	63	e.	13.5	6.0		2 cs	2k;ks		se.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.37	619 0	30.20	767.1	46.9	8.3	75	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.80	756.8	30.06	763 5	67.0	19.4	100	ese.	1.6	0.8			10 n		se.	0	0	covered	F. Quijano, O. E.
NETHERLANDS.																			
Flushing	29.81	757.2	29.81	757.2	45.3	7.4		n.			4					0.197	5.0		
Groningen	29.79	756.7	29.85	758.1	41.5	5.3		n.								0.114	2.9		
Helder	29.83	757.7	29.83	757.7	40.1	4.5		n.			4					0.012	0.3		
Hellevoetsluis	29.78	756 3	29.78	756.3	50.9	10.5	81	nne.			2					0.047	1.2		
Utrecht	29.78	756.4	29.83	757.8	44.1	6.7	82	sw.			2		9			0	0	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.2			79.5	26.4	87	ne.	0	0			2			0	0		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.87	758.6	29.93	760.2	32.0	0.0	74	nnw.	7	3			1			0	0		
Brono	29.52	749.8	29.56	750 8	32.2	0.1	64	nnw.			6		4			0.055	1.4		
Christiania	29.09	754.1	29.84	758 0	29.5	— 1.4	53	w.	9	4			0			0.004	0.1		
Gjæsvær	29.00	736.7	29.03	737.3	29.7	— 1.3		ssw.			7		10			0	0		
Lodingen	29.39	746.5	29.44	747.7	25.2	— 3.8	73	w.			2		1			0.016	0.4		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.35	770.8	30.44	773.1	59.9	15.5	49	calm	1.8	0.8			4	n.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.91	759.6	30.25	768.4	50.0	10.0	59	nnw.	5.6	2.5			4			0.220	5.6		The Staff.
Ponta Delgada, Azores	30.70	779.8	30.77	781.6	57.2	14.0	53	ne.	13.0	5.8			4			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	29.95	760.7	29.99	761.7	71.1	21.7	75	ene.			5		0			0	0	hazy	
San Salvador, Congo	28.08	713.3	29.92	759.9	76.6	24.8	72	e.			1		7			0.394	10.0		
Serra da Estrella	25.28	642.2	30.25	768.4	27.3	— 2.6	96	wnw.			4		8			0.079	2.0		
RUSSIAN.																			
Akmolinski	28.84	732.4	30.03	762.8	1.9	—16.7	75	ne.	11	5		0	0			0	0		Major K. Lasarew.
Archangel	29.47	748.5	29.49	749.0	18.7	— 7.4	92	e.	2	1			10			0	0		Capt. Sselliwerstow
Ashurada	30.16	766.1	30.07	763.7	49.5	9.7	79	nw.	18	8			9 km			0.004	0.1		
Astrakhan	30.03	762.7	29.95	760.7	32.7	0.4	73	nw.	7	3		0	7 s			0.024	0.6		Capt. Wisganow.
Baku	30.09	764.2	30.04	763.0	46.0	7.8	79	s.	9	4		0	1 s			0	0		
Barnaul	29.72	754.8	30.27	768.8	6.8	—14.0	69	calm	0	0			2			0	0		Meteorological Office.
Bieloserskaya	29.06	738.1	29.55	750.5	21.9	— 5.6	94	e.	4	2			10 n			0.185	4.7	snowing	
Dorpat	28 79	731.3	29.04	737.5	34.3	1.3	98	w.	4	2			10 n			0.268	6.8	rain & snow	Observatory.
Ekaterinburg	29.05	737.8	30.10	764.5	8.1	—13.3	93	e.	9	4			10			0	0	light clouds	Meteorological Obs'y
Elissawetgrad	29.32	744 6	29.78	756.3	36.9	2.7	93	w.	11	5			10 s;n			0.016	0.4		
Kasan	29.41	746.9	29.09	754.0	26.6	— 3.0	96	s.	2	1			10			0	0		Observatory.
Kem	29.46	748.2	29.51	749 5	18.7	— 7.4	95	calm	0	0			10			0	0	h'vy clouds	
Kertch	29.81	757.1	29.83	757.7	45.7	7.6	90	s.	4	2			9 n			0	0		Lagorio & Sastyrez.
Kieff	29.01	736.8	29.65	753.2	39.2	4.0	93	w.	11	5			10 ks			0.035	0.9		Observatory.
Koslov	29.19	741 4	29.71	754 7	27.3	— 2.6	71	ssw.	13	6			10 s			0.276	7.0		
Lgov	29.63	737.3	29.63	752.5	33.3	0.7	95	ssw.	20	9			10			0.063	1.6	raining	R. I. Ssaweljew, Engin'r.
Libau	29.40	748.3	29.48	748.0	35.6	2.0	85	nnw.	18	8			10			0.402	10.2		L. Quass
Lugan	29.61	752.2	29.83	757.6	32.7	0.4	85	sw.	4	2			10			0.272	6.9		Meteorological Obs'y
Moscow	29.08	738.5	29.58	751.2	25.9	— 3.4	77	s.	11	5			10 n			0.016	0.4	snowing	Meteorological Obs'y
Nertschinsk	28.02	711 8	30.61	777.5	— 3.6	—19.8	68	sw.	2	1			0			0	0		
Nikolaiev	29.78	756.3	29.85	758.1	34.5	1.4	96	s.	4	2			10 n			0	0		Capt. Kurdakow.

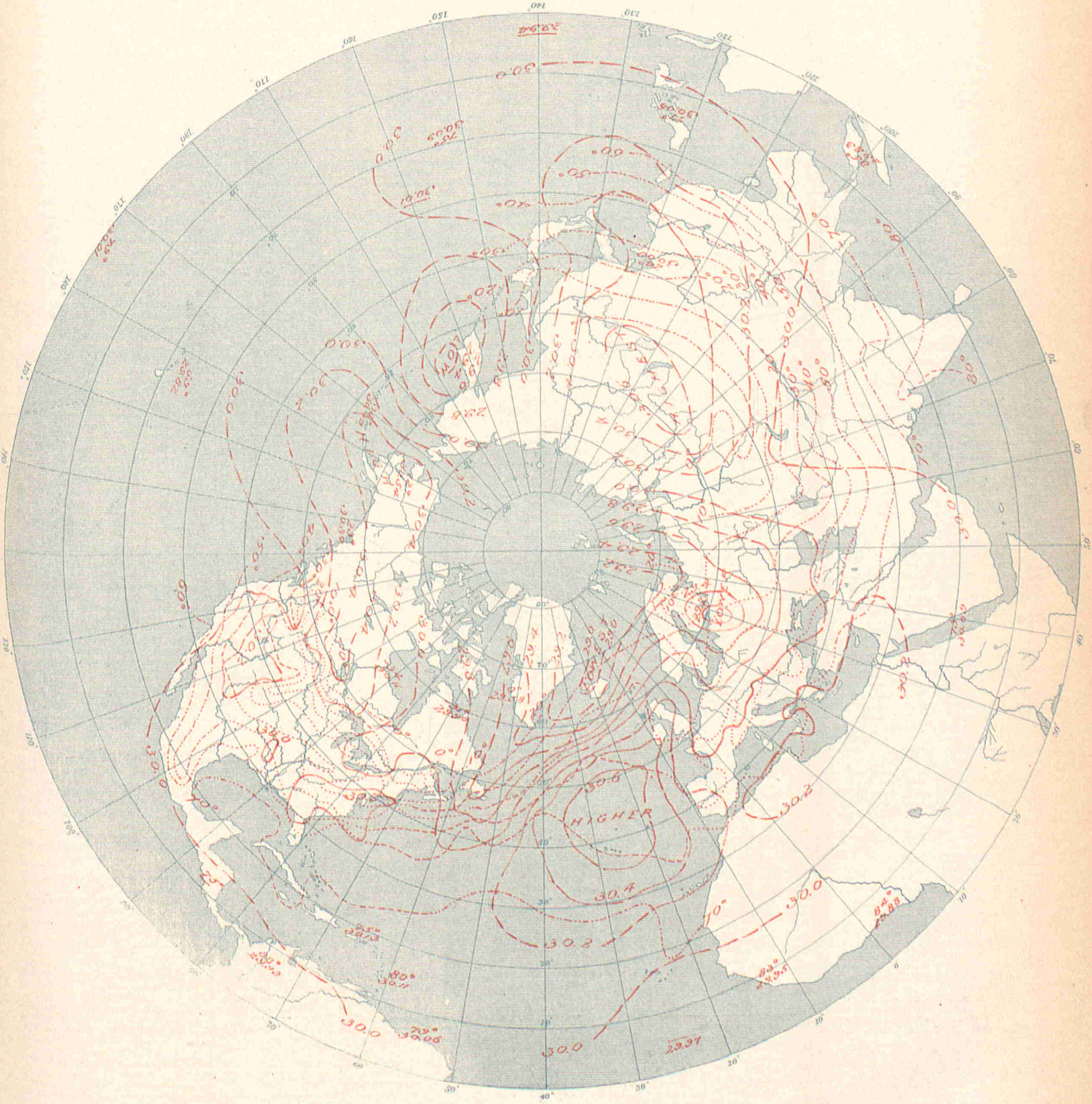
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor.																			
Pekin, China	30.35	770.8	30.49	774.4	24.3	— 4.3	33	nw.	2.2	1.0		2 cs	0						Iwanow.
Petro-Alexandrovsk	29.69	754.0	30.06	763.5	26.2	— 3.2	89	wnw.	2	1			10						Siang.
Petrozavodsk	29.25	743.0	29.46	748.2	21.4	— 5.9	87	se.	9	4			10			0.094	2.4		Walter.
Pinsk	29.13	739.9	29.63	752.7	42.4	5.8	75	w.	45	20			9 s			0.016	0.4		Dr. Bergmann.
Poti	30.09	764.2	30.12	765.0	43.5	6.4	98	e.	4	2			10 n			0.087	2.2		
St. Petersburg	29.18	741.2	29.21	741.8	23.5	— 4.7	90	ese.	18	8			10 n			0.075	1.9		Central Physical Obs'y.
Samarkand	27.44	696.9	29.97	761.1	39.9	4.4	80	calm	0	0			10 n						Dresch.
Semipalatinsk	29.52	749.9	30.28	769.0	— 9.2	—22.9	84	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.53	752.7	29.85	758.2	48.4	9.1	84	w.	27	12		5 cs	0			0	0		
Starol Bykhov	28.86	733.0	29.42	747.3	37.9	3.3	85	ssw.	13	6			10			0.028	0.7		Carl Hagen.
Tashkend, Laboratory	28.24	717.4	29.95	760.7	43.2	6.2	73	calm	0	0			10 n						Terch, A. M.
Tiflis	28.60	726.5	30.06	763.4	45.5	7.5	46	nw.	20	9		0	7 n			0	0		Physical Observatory.
Vernoe	27.25	692.2	29.87	758.7	26.2	— 3.2	69	calm	0	0		0	5 k						Sariono.
Viatka	29.03	737.4	29.69	754.1	24.3	— 4.3	74	sse.	2	1			10			0.091	2.3		
Vladivostock	30.19	766.7	30.25	768.4	12.7	—10.7	76	calm	0	0			0			0	0		
Warsaw	29.29	743.9	29.71	754.7	45.3	7.4	76	wsw.	27	12		0	8 k					heavy clouds	Astronomical Obs'y.
Yeniseisk	30.43	772.9	30.77	781.5	—15.3	—26.3	81	calm	0	0			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.95	735.3	29.40	746.7	23.7	— 4.6	93	sse.	22.9	10.2			10 n		s.	0.07	1.8	light snow	Bachmetieff.
Spanish.																			
Barcelona, Met. Obs'y	29.92	760.0	30.03	762.8	57.0	13.9	67	sw.				0	6			0	0		B.J.Elin.
Bilbao, Met. Obs'y	30.03	762.7	30.06	764.2	56.1	13.4	55	se.	3.6	1.6		2	3	w.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.09	688.1	30.18	766.6	37.4	3.0	80	sw.	12.5	5.6		2	6	ne.		0.110	2.8	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.5	30.15	765.7	45.3	7.4	74	w.	15.0	6.7			9			0.043	1.1	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.97	761.1	30.12	765.0	63.0	17.2	74	wsw.	0.9	0.4		4	5	e.		0	0	almost cov.	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.19	741.3	30.10	764.5	46.8	8.2	87	w.	3.8	1.7			10			0.417	10.6	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.09	764.3	30.16	766.0	64.1	17.8	91	ene.	0.4	0.2		0	1 k		ene.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.00	762.0	30.06	763.4	77.1	25.1	77	ene.	11.0	4.9		0	7 ks		e.	0	0	cloudy	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.14	765.6	30.25	768.2	53.6	12.0	73	nw.	4.5	2.0		1	7	w.	nw.	0.092	2.3		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.04	763.0	30.13	765.3	74.5	23.6	95	s.	0.9	0.4			10 kn		se.	0	0	overcast	Enrique Gaden, Chf Eng
Swedish.																			
Haparanda	29.47	748.5	29.51	749.5	— 8.7	—22.6	100	calm			0		0			0.087	2.2		
Umea	29.50	749.2	29.55	750.5	19.0	— 7.2	90	n.			2		0			0	0		
Hernosand	29.57	751.1	29.62	752.4	26.2	— 3.2	70	n.			4		0			0	0		
Stockholm	29.43	747.6	29.61	752.1	23.4	— 4.8	81	n.			4		9			0.134	3.4		
Wisby	29.46	748.2	29.52	749.7	30.9	— 0.6	85	n.			7		10			0.488	12.4		
Sub-series.																			
Upsala	29.52	749.7	29.60	751.9	22.3	— 5.4	85	nnw.	13.6	6.1			0			0	0		H.H.Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.13	765.3	58.3	14.6	58	sw.	7	3.0			1		sw.	0	0		The Observatory.
Valona			30.25	768.4	61.2	16.2		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.29	769.3	63.7	17.6	59	se.			1	ck	6 k		nw.	0	0		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.06	763.5	30.15	765.8	19.6	— 6.9	75	sw.	2	0.9			10 s		w.	0.01	0.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.23	742.4	29.94	760.5	17	— 8.3	83	w.	16	7.2			10 s			0.07	1.8	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.12	638.0	30.22	767.6	39.2	4.0	82	se.	3	1.3			10 s			0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.17	690.1	30.21	767.3	5.8	—14.6	76	e.	18	8.0			10 s		e.	0	0	cloudy	F. Newman.
Atlanta, Georgia	29.02	737.1	30.24	768.1	40.2	4.6	44	n.	5	2.2		2 c	0	nw.		0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.20	767.1	30.21	767.3	26.0	— 3.3	77	ne.	4	1.8		0	0			inap.	inap.	clear	B.A.Blundon.
Augusta, Georgia	30.06	763.5	30.26	768.6	39.5	4.2	82	w.	2	0.9		0	hz.			0	0	clear	W.J.Evans.
Baltimore, Maryland	30.20	767.1	30.25	768.3	28.5	— 1.9	61	sw.	4	1.8		0	0			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.19	766.8	30.21	767.3	25.5	— 3.6	81	e.	4	1.8		hz.	2 ks			inap.	inap.	clear	F.L.Johnson.
Bennett, Fort, Dakota	28.42	721.9	30.14	765.5	16.5	— 8.6	91	ne.	3	1.3			10 s		ne.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.45	697.2	30.45	773.4	6.0	—14.4	58	nw.	8	3.6			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.26	717.8	30.24	768.1	2.0	—16.7	87	e.	14	6.3			10 s		nw.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.18	766.6	30.21	767.3	20.5	— 6.4	84	n.	4	1.8		0	0			inap.	inap.	clear	J. T. Elker.
Boise City, Idaho	27.26	692.4	30.22	767.6	22	— 5.6	87	n.	1	0.4			10 s			0	0	cloudy	James Kenealy.
Boston, Massachusetts	30.01	762.2	30.17	766.3	15.0	— 9.4	83	nw.	1	0.4		5 cs	0			inap.	inap.	fair	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.06	763.5	62.8	17.1	93	se.	6	2.7		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.14	740.1	29.93	760.2	30.8	— 0.7	79	s.	24	10.7			10 s		sw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.96	710.2	30.17	766.3	7	—13.9	89	e.	16	7.2			10 s			0	0	cloudy	A. Schneider.
Cairo, Illinois	29.73	755.1	30.15	765.8	39.0	3.9	73	sw.	2	0.9		0	7 s		sw.	0	0	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.72	754.9	29.92	760.0	37.8	3.2	88	se.	6	2.7			9 s			0	0	cloudy	J.H.Young.
Cape Henry, Virginia	30.25	768.3	30.27	768.8	33.5	0.8	68	s.	3	1.3		0	0			0	0	clear	A. K. Alderson
Cape May, New Jersey	30.16	766.1	30.19	766.8	26.5	— 3.1	64	nw.	4	1.8		0	0			0	0	clear	W.E.Smith.
Cape Mendocino, California	29.16	740.7	29.86	758.4	47.5	8.6	87	se.			4		10 s; ks		se.	0.02	0.5	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.21	767.3	30.23	767.8	54.2	12.3	85	ne.	7	3.1		0	0			0.06	1.5	clear	G. W. Davis.
Charleston, S. Carolina	30.12	765.0	30.18	766.6	48.0	8.9	93	ne.	6	2.7		0	0			0.10	2.5	clear	J. H. Smith.
Charlotte, N. Carolina	29.36	745.7	30.25	768.3	37.5	3.1	73	ne.	2	0.9		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.38	746.2	30.24	768.1	33.5	0.8	88	calm	0	0		3 cs	1 s; fg	nw.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	23.94	608.1	30.21	767.3	36.2	2.3	52	w.	6	2.7		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.30	744.2	30.05	763.3	33.7	0.9	66	w.	4	1.8		0	0			inap.	inap.	clear	Wm. Norrington.
Chincoteague, Virginia	30.23	767.8	30.25	768.3	27.4	— 2.6	73	ne.	1	0.4		0	0			0.05	1.3	clear	C. F. Dickens
Cincinnati, Ohio	29.42	747.3	30.11	764.8	42.0	5.6	78	sw.	6	2.7		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.21	741.9	30.00	762.0	35.0	1.7	69	sw.	16	7.2		0	2 s		nw.	0.01	0.3	clear	W. Line.
Columbus, Ohio	29.16	740.7	30.06	763.5	33.2	0.7	78	s.	6	2.7		5 ck	0	sw.		0	0	fair	F.T. Williams
Concho, Fort, Texas	28.11	714.0	30.13	765.3	51.2	10.7	86	sw.	3	1.3		0	0			0	0	clear	C. E. King.
Custer, Fort, Montana	26.62	676.1	29.98	761.5	26	— 3.3	76	se.	3	1.3		0	3 ks			0	0	clear	W.J.Daily.
Davenport, Iowa	29.38	746.2	30.08	764.0	31	— 0.6	74	nw.	4	1.8		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	30.21	767.3	47.1	8.4	73	calm	0	0		0	6 s			0	0	fair	J. Williams.
Dayton, Washington T'y	28.08	713.2	29.90	759.4	46	7.8	49	sw.	16	7.2		0	2 s			0	0	clear	H.S.Blandford.
Deadwood, Dakota	25.18	639.6	30.10	764.5	30.8	— 0.7	78	sw	2	0.9		0	0			0	0	clear	G.Kingsbury.
Delaware Breakwater, Del.	30.24	768.1	30.26	768.6	28.1	— 2.2	72	se.	7	3.1		0	0			inap.	inap.	clear	G.A.Martin.
Denver, Colorado	24.67	626.6	30.19	766.8	33.5	0.8	70	s.	4	1.8		0	0			inap.	inap.	clear	F. M. Neal.
Des Moines, Iowa	29.14	740.1	30.12	765.0	32	0.0	78	ne.	8	3.6			10 s			0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.22	742.2	29.97	761.2	36.1	2.3	79	sw.	6	2.7			10 s			0.10	2.5	cloudy	N.B.Conger.
Dodge City, Kansas	27.39	695.7	30.13	765.3	32.7	0.4	57	w.	3	1.3		0	0			0	0	clear	J.E.Lanouette.
Dubuque, Iowa	29.32	744.7	30.08	764.0	28.7	— 1.8	66	w.	3	1.3		0	0			0.03	0.8	clear	J. Harvey Smith
Duluth, Minnesota	29.33	745.0	30.14	765.5	7.5	—13.6	87	nw.	2	0.9		2 c	0			0.16	4.1	clear	E.R.Brace.
Eastport, Maine	30.02	762.5	30.09	764.3	8.0	—13.3	76	nw.	11	4.9		0	0			0.37	9.4	clear	D. C. Murphy.
Elliott, Fort, Texas	27.19	690.6	30.09	764.3	32.3	0.2	82	nw.	3	1.3		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.33	668.8	30.21	767.3	48.3	9.1	86	w.	4	1.8		0	2 s		w.	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.19	741.4	29.96	761.0	34.6	1.4	88	sw.	14	6.3			10 s		sw.	0.03	0.8	cloudy	C. A. Shaw.
Escanaba, Michigan	29.32	744.7	30.04	763.0	10.0	—12.2	85	w.	4	1.8		10 ck	0	nw.		0.15	3.8	cloudy	L.M.Pindell.
Fort Smith, Arkansas	29.50	749.3	30.00	762.0	44.2	6.8	68	e.	6	2.7			10 s			0	0	cloudy	J. B. Campbell.
Galveston, Texas	30.06	763.5	30.10	764.5	59.6	15.3	100	s.	4	1.8		0	4 s; fg		s.	0.01	0.3	fair	E. O'C. Macilrney
Grand Haven, Michigan	29.31	744.5	30.02	762.5	28.0	— 2.2	77	w.	13	5.8			10 s		w.	0.04	1.0	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.27	641.8	30.13	765.3	47.3	8.5	89	e.	3	1.3			10 s		e.	0.20	5.1	cloudy	Chas. A. Read.
Hatteras, North Carolina	30.26	768.6	30.27	768.8	39.0	3.9	82	ne.	6	2.7		0	0			0.07	1.8	clear	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.65	651.5	30.00	762.0	29.5	— 1.4	78	ne.	4	1.8		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	28.62	726.9	30.14	765.5	23.8	— 4.6	92	ne.	5	2.2			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.21	741.9	30.06	763.5	36.0	2.2	58	sw.	3	1.3		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.04	763.0	30.07	763.8	62.2	16.8	99	s.	4	1.8			10 s		s.	inap.	inap.	cloudy	I. A. Reed.
Jacksonville Florida	30.16	766.1	30.22	767.6	49.2	9.6	73	calm	0	0		0	fg.			0.33	8.4	clear	J. W. Smith.
Keokuk, Iowa	29.36	745.7	30.06	763.5	34.5	1.4	74	w.	3	1.3		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.15	765.8	30.17	766.3	68.5	20.3	92	ne.	4	1.8		0	0			0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.26	768.6	30.28	769.1	36.6	2.6	80	e.	4	1.8		0	0			0.06	1.5	clear	Wesley Blake.
Knoxville, Tennessee	29.16	740.7	30.24	768.1	29.5	— 1.4	92	ne.	3	1.3		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.08	764.0	23	— 5.0	73	nw.	1	0.4		0	0			0.01	0.3	clear	S. C. Emery
Leavenworth, Kansas	29.14	740.1	30.09	764.3	34	1.1	78	ne.	1	0.4		0	sk.			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.03	737.3	29.90	759.4	41.0	5.0	48	se.	1	0.4			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.72	754.9	30.04	763.0	44.0	6.7	83	calm	0	0			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.56	750 8	29.96	761.0	56.0	13.3	96	e.	11	4.9			10 n			3.31	84.1	heavy rain	T. S. Collins.
Louisville, Kentucky	29.51	749.5	30.10	764.5	42.0	5.6	63	sw.	10	4.5		0	0			0	0	clear	L. M Dey.
Lynchburg, Virginia	29.49	749.0	30.21	767.3	29.0	— 1.7	77	ne.	1	0.4		0	fg.			0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.27	743.4	29.97	761.2	17.2	— 8.2	87	nw.	17	7.6			10 s		nw.	0.24	6.1	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.24	768.1	30.25	768.3	37.8	3.2	85	n.	10	4.5		0	hz.			inap.	inap.	clear	William Daly.
Maginnis, Fort, Montana	25.47	646.9	30.22	767.6	18.4	— 7.6	42	nw.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.26	743.2	30.04	763.0	16.0	— 8.9	74	nw.	16	7.2			10 s		nw.	0.01	0.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.76	755.9	30.10	764.5	45.6	7.6	68	se	5	2.2			10s;fg		se.	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.26	743.2	30.06	763.5	30.2	— 1.0	80	nw.	5	2.2		0	1 s		nw.	0.05	1.3	clear	S. W. Rhode.
Mobile, Alabama	30.11	761.8	30.15	765.8	52.9	11.6	83	calm	0	0		6 k	3 s	w.	w.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.97	761.2	30.21	767.3	39	3.9	82	calm	0	0		7 cs	fg.			0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.18	741.2	30.28	769.1	— 8	—22.2	100	n.	15	6.7			10 s		n.	0.02	0.5	cloudy	H. Bessant.
Mt. Washington, N. H.	23.45	595 6	30.07	763.8	1.5	—16.9	64	nw.	20	8.9			10 s		nw.	0.03	0.8	cloudy	Edwd. A. Beals.
Nashville, Tennessee	29.55	750.6	30.16	766.1	37.3	2.9	74	se.	3	1.3		6 c	0	w.		inap.	inap.	fair	L. N. Jesunofsky
New Haven, Connecticut	30.06	763.5	30.18	766.6	15.3	— 9.3	83	n.	2	0.9		4 cs	0			0	0	fair	J. H. Sherman.
New London, Connecticut	30.16	766.1	30.21	767.3	19.0	— 7.2	76	sw.	1	0.4		0	2 s		sw.	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.09	764.3	63.0	17.2	93	calm	0	0			fg.			0.04	1.0	dense fog	M. Herman.
New York, New York	30.02	762.5	30.21	767.3	21.5	— 5.8	65	calm	0	0		0	7 s			0	0	fair	H. J. Peurod.
Norfolk, Virginia	30.22	767.0	30.25	768.3	34.0	1.1	88	calm	0	0		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.02	686.3	30.12	765.0	28.8	— 1.8	84	w.	3	1.3		0	0			0	0	clear	J. J. Mc Lean.
Olympia, Washington Ter	29.88	758.9	29.92	760 0	33.0	0.6	88	calm	0	0		0	1 s			0	0	clear	J. Dascomb
Omaha, Nebraska	28.84	732.5	30.11	764.8	35.0	1.7	79	e.	1	0.4		0	0			0	0	clear	A. Pollak
Oswego, New York	29.59	751.6	29.94	760.5	22.7	— 5.2	65	s.	14	6.3			10 n			0.01	0.3	light snow	J. G. Linsley.
Palestine, Texas	29.48	748.8	30.06	763.5	62.5	16.9	93	s.	14	6.3			10 ks		s.	0	0	threatening	P. T. Jenkins.
Pensacola, Florida	30.16	766.1	30.18	766.6	54.3	12.4	62	ne.	7	3.1		2 cs	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.12	765 0	30.23	767.8	26	— 3.3	64	sw.	4	1.8		2 cs	0	w.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.69	449.3	30.41	772.4	11.0	—11.7	73	w.	31	13.9		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.19	741.4	30.05	763.3	34.8	1.6	69	sw.	10	4.5		8 cs	0	sw.		inap.	inap.	cloudy	O. D. Stewart.
Poplar River, Montana					1.9	—16.7	100	ne.			2		10 s			0	0	threatening	G. A. Carden.
Port Huron, Michigan	29.19	741.4	29.92	760 0	30 0	— 1.1	81	sw.	4	1.8			10 s			0.04	1.0	cloudy	M. H. Perry
Portland, Maine	30.08	764.0	30.13	765.3	17.0	— 8.3	74	n.	2	0.9		0	4s;sk		w.	0.08	2.0	fair	W. W. Eichelberger.
Portland, Oregon	29.86	758.4	29.93	760.2	33.4	0.8	87	nw.	2	0.9			10 s			0	0	cloudy	M. L. Hearn.
Prescott, Arizona	24.82	630.4	30.18	766.6	36.0	2.2	92	s.	1	0.4		0	6 s		s	0.07	1.8	fair	N. D. Lane.
Provincetown, Mass	30.16	766.1	30.19	766.8	19.7	— 6.8	71	nw.	7	3.1		10 c	0	w.		0.04	1.0	cloudy	C. N. Kitchel.
Red Bluff, California	29.64	752.8	30.01	762.2	47	8.3	100	n.	2	0.9			10 n		n.	0.20	6.6	light rain	J. R. Williams.
Rio Grande City, Texas	29.84	757.9	30.08	764.0	62.0	16.7	96	se.	3	1.3		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.20	741.7	29.91	759.7	26	— 3.3	88	sw.	16	7.2			10 n			0.04	1.0	light snow	E. W. McGann.
Roseburg, Oregon	29.35	745.5	29.92	760.0	39.6	4.2	86	calm	0	0		0	fg.			0	0	clear	J. J. Nanry.
Sacramento, California	29.89	759.2	29.96	761.0	47.5	8.6	96	n.	5	2.2			10 s			0.40	10.2	cloudy	J. A. Barwick
St. Louis, Missouri	29.45	748.0	30.11	764.8	43.5	6.4	70	sw.	7	3.1		0	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.50	774.7	30.54	775.7	12	—11.1	100	s.			1		10 s			0	0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.18	741.2	30.10	764.5	15.1	— 9.4	55	nw.	8	3.6		1 cs	0			0.01	0.3	clear	P. F Lyons.
St. Vincent, Minnesota	29.40	746.7	30.38	771.6	—15	—26.1	90	n.	8	3.6		0	0			0.01	0.3	clear	C. B. Dilley.
Salt Lake City, Utah	25.64	651.2	30.20	767.1	40.4	4.7	57	nw.	2	0.9			10 s			0	0	cloudy	J. Craig.
San Diego, California	29.89	759.2	29.96	761.0	61.0	16.1	92	s.	12	5.4			10 s		s.	0.14	3.6	cloudy	F. R. Day.
Sandusky, Ohio	29.27	743.4	29.99	761.7	34	1.1	72	sw.	8	3.6		0	0			0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.20	767.1	30.22	767.6	23.4	— 4.8	73	calm	0	0		8 c	0			0	0	cloudy	V. P. Chappel.
Sanford, Florida	30.13	765.3	30.18	766.6	56.0	13.3	95	ne.	5	2.2		0	0			0.01	0.3	clear	J. B. Marbury
San Francisco, California	29.86	758.4	29.93	760.2	51.0	10.6	93	nw.	5	2.2			9 s		s.	0.17	4.3	cloudy	N. Gorom.
Savannah, Georgia	30.10	764.5	30.19	766.8	45	7.2	60	nw	3	1.3		0	0			0.01	0.3	clear	R. M. Geddings.
Shaw, Fort, Montana	26.43?	671.3?	30.28?	769.1?	10	—12.2	80	nw.	7	3.1			10 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.81	757.2	29.99	767.1	55.0	12.8	90	s.	5	2.2			10 s		s.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	30.23	767 8	30.30	769.6	23	— 5.0	61	e.	15	6.7		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	30.18	766.6	30.22	767 6	38.5	3.6	87	ne.	6	2.7		0	0			0.04	1.0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.74	704.6	29.87	758.8	26.0	— 3.3	88	nw.	1	0.4			10 s			0	0	cloudy	D. Moore.
Springfield, Illinois	29.36	745.7	30.09	764.3	38.0	3.3	81	nw.	8	3.6		0	0			0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.02	686.3	30.16	766.1	49.0	9.4	66	s.	3	1.3		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.77	756.1			38.5	3.6	95	calm	0	0			10 s			0.09	2.3	cloudy	R. Connor.
Thomas, Camp, Arizona	27.34	694.4	30.17	766.3	44	6.7	96	calm			0		10 s			0.02	0.5	cloudy	R. C. Lord.
Toledo, Ohio	29.23	742.4	29.97	761.2	33.8	1.0	73	sw.	6	2.7			10 s		sw.	0	0	cloudy	A. Buell.
Unalashka, Alaska	30.47	773.9	30.49	774.4	38	3.3	89	s.	8	3.6			10 s			0.07	1.8	cloudy	Samuel Applegate
Vicksburg, Mississippi	29.86	758.4	30.13	765.3	52	11.1	93	se.	10	4.5			fg.			0	0	dense fog	C. Dill.
Washington, D. C.	30.14	765.5	30.26	768.6	26.2	— 3.2	86	se.	2	0.9		0	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.02	660.9	30.14	765.5	19.5	— 6.9	76	w.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N Carolina	30.19	766.8	30.25	768.3	30.5	2.5	75	ne.	4	1.8		0	0			0.03	0.8	clear	L. H. Albrecht.
Yankton, Dakota	28.68	728.5	30.10	764.5	23.4	— 4.8	82	ne.	5	2.2		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.88	758.9	30.03	762.7	54.7	12.6	84	calm	0	0			10 s		sw.	inap.	inap.	cloudy	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.28	743.7	29.30	744.2	28.5	— 1.9	96	sw.	36	16.1			10 n		sw.	0.04	1.0	snowing	George Cherwick.
Bluefields, Nicaragua, C. A.					76	24.4		ne.			3		10 n		ne.	0.64	16.3	raining	W. H. Jackson.
Bogota, U. S. C.	22.02	559 2			49.1	9.5	85	calm	0	0		0	1 k			0	0		Joaquin Gomez.
Chimo, Fort, Ungava	29.73	755.1	29.90	759.4	—31	—35.0	100	calm	0	0		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.09	764.3	67.0	19.4	88	n.	1	0.4		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78.5	25.8	84	e.			2	5 k	7 ks	e.	e	0	0	cloudy	Dr C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.93	760.2	88	31.1	69	calm			0		10 ks		s.	0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75	23.9	90	ne			1	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	30.04	763.0	30.11	764.8	—34.0	—36.7		nw.	13	5.8		1 c	0	nw.		0	0		Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.94	760.5	29.95	760.7	79.4	26.4	81	n.	9.4	4.2		0	5 k		n.	0	0	fair	P. Fasiani.
Naós, Bay of Panama	29.89	759.3	29.96	761.0	75.2	24.0	90	nw.			4	0	2 ks		n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Alvo, N. 31° 20′, W. 73° 40′ *	30.18	766.6	64	17.8		ne.			3–4		9		nne.	0	0	high	ne.	
S. S. Andes, N. 37° 30′, W. 73° 47′ *†	30.20	767.1	34	1.1		n.			1		0			4 h'r	4 h'r	mod.	n.	clear.
S. S. Ailsa, Kingston, Jamaica, W. I.			72.5	22.5	91	ne.			1		2		ne	0	0	sm'h		fine.
S. S. Arizona, N. 45° 57′, W. 44° 54′	30.15	765.8	48	8.9		ssw.			5		10		s.			mod.	ssw.	showery.
Schr. Arthur Burton, N. 27° 35′, W. 79° 50′ †	30.17	766.3				ne.			3		2		ne.	0	0	r'gh	ne.	fine.
S. S. Alps, Mayagues, Porto Rico W.I	30.15	765.8	79	26.1		e.			1				e.	0	0	short		clear.
S. S. Adriatic, N. 49° 30′, W. 25° 00′			52	11.1		wnw.			4		5		ne.			mod	e.	fair.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W.I†	30.10	764.5	66	18.9		nne.			1		0			0	0			clear.
S. S. Circassian, N. 53° 28′, W. 24° 45′	30.41	772.4	49	9.4	85	wsw.			6		8		wsw.			4	wsw.	overcast.
S. S. Caracas, Curacao, W.I *†	30.10	764.5	77.5	25.3	86	e.			3		2		ene.	0	0	sm'h		fine.
S. S. Chalmette, Mississippi river *†	30.07	763.8	62	16.7		ese.			1					0	0			foggy.
S. E. J. Spicer, N. 43° 54′, W. 21° 30′	30.74	780.8	52	11.1	93	n.			4		7		nw.	rain	rain	mod.	n.	squally
S. S. England, N. 44° 33′ W. 48° 32′	29.85	758 2				s.			5		10		s.			mod	s.	dense fog.
S. S. France, N. 49° 38′, W. 60° 32′	30.04	763.0				nne.			6		6		ne.	rain	rain	large	ne.	gloomy.
S. S. Grecian, N. 50° 23′, W. 2° 03′	29.93	760.2	44	6.7	84	ne.			6		10		ne.	2 h'r	2 h'r	high	con.	cloudy.
Bg. George, N. 32° 50′, W. 71° 40′ *†	30.20	767.1				nne.			3		0			2 h'r	2 h'r	mod.	con.	clear.
S. S. Hermann, N. 48° 15′, W. 29° 29′	30.71	780.0	54.3	12.4	79	wsw.			4		10		sw.	0	0	mod.	w.	cloudy.
S. S. Holland, N. 44° 24′ W. 53° 20′ *	29.74	755.4	42	5.6		wsw.			5					3 h'r	3 h'r	cross	s.nw.	foggy.
Bg. L & W. Armstrong, N. 18° 49′, W. 65° 39′ *†	30.18	766.6				ne.			2		6		nne.	0	0	long	n.	fair.
S. S. Lessing, N. 49° 20′ W. 11° 36′			45	7.2		nnw.			6		5		ne.	0	0	h'vy	n.	fair.
S. S. Main, N. 49° 34′, W. 23° 55′	30.70	779.8	51.8	11		w.			3		6		wnw.	1 h'r	1 h'r	mod.	w.	fair.
S. S. Mentmore, N. 50° 17′, W. 34° 26′ *†	30.46	773.7				sw.			9		5		sw.	2 h'r	2 h'r	mod.	sw.	fair.
S. S. Marengo, N. 49° 47′ W. 6° 16′ *†	30.08	764.0	41	5.0		nnw.			6		7		nnw.	2 h'r	2 h'r	con.	var.	squally.
Schr. Maria Matilda, N. 25° 00′, W. 77° 07′						w.			1–2		8			0	0			fine
S. S. Neckar, N. 49° 13′, W 6° 54′	30.05	763.3	45.5	7.5	72	var.			6–8		7		var.	rain	rain	h'vy	var.	cloudy.
S. S. Orinoco, N. 37° 26′, W. 76° 20′			44	6.7		nne.			3		6		nne.	1 h'r	1 h'r	long	ssw.	fair.
S. S. Ohio, (Am) N. 41° 30′, W. 58° 45′*†	29.91	759.7	46	7.8	92	nw.			3		9		nw.	14 h'r	14 h'r	mod.	ese.	cloudy.
S. S. Pennsylvania, Fastnet, Ireland			45	7.2	53	nnw.			4		2		nw.	2 h'r	2 h'r	h'vy	nnw.	clear.
S. S Polynesian, Cape Sable, N.S.	30.10	764.5	22	— 5.6		nw.			3		2		nw.	0	0	sm'h		clear.
S. S. Rhaeti, N. 46° 46′, W. 43° 20′			49	9.4		ssw.			6		9		ssw.	0	0	long	s.	cloudy.
S. S. Rhein, N. 43° 31′, W. 55° 31′	29.80	756.9				w.			6		10		w.	12 h'r	12 h'r	high	w.	raining.
S. S. Rhynland. Antwerp, Belgium	29.83	757.7	41	5.0	82	s.			2		8		s.	2 h'r	2 h'r			cloudy.
S. S. Republic, N. 50° 50′, W. 21° 34 *†	30.56	776.2	51	10.6		nnw.			4		7		nw.	0	0	mod.	nw.	fair.
S. S. Scandinavian, N. 51° 02′, W. 31° 28′	30.51	774.9	51	10.6		sw.			6		6		sw.	0	0	mod.	sw.	d. clouds.
S. S. Samaria, N. 51° 00′, W. 18° 45′	30.53	775.4	50	10.0		w.			4		9		wnw.	3 h'r	3 h'r	r'gh	wnw.	cloudy.
S. S. Salier, N. 49° 48′, W. 8° 35′						n.			7		9		nne.	6 h'r	6 h'r	h'vy	n.	stormy.
S. Salisbury, N. 18° 08′, W. 57° 07′	30.10	764 4	76.1	24.5	71	nw.			1–2		2 k		nw.	0	0	long	nw.	clear.
Bk. Tuck Sing, N. 23° 23′, W 83° 47 *†	30.14	765.5				ene.			3		0			0	0	sm'h		clear.
S. S. Zeeland, N. 43° 09′, W. 58° 24′*†	29.80	756.9	34	1.1		wnw.			5		8		wnw.			short	w.	foggy
S. S. Belgenland, off Sandy Hook, N. J *†	30.16	766.1				w.			3				wsw.	0	0	small		clear.
S. S. State of Georgia, N. 41° 32′, W. 62° 41′†	30.05	763 3	34	1.1		wnw.			6		5		nnw.	light	light	mod.	var.	fair.
Schr. Adda Doane, Kingston, Jamaica, W. I†	30.11	764.8				calm			0		2		ne.	0	0			clear.
Bg. Alcira, Maracaybo, Venezuela*	30.02	762.5	79	26.1		nne.			2		4		ne.	0	0			clear.
S. S. Britannic, N. 42° 50′ W. 58° 10′ *†	29.87	758 7	37	2.8		wnw.			6		4		nw.	0	0	high	wnw.	d. clouds.
Bk. Chas. Stewart, N. 36° 28′, W. 16° 00′	30.48	774.2				nne.			6		2		nw.	0	c	r'gh	nw	clear.
Bk. Cato, N. 39° 43′, W. 70° 35′†	30.16	766.1	42	5.6	79	nne.			2		2		nne.	0	0	mod.	wnw.	fair.
S. S. Donau, N. 43° 11′, W. 56° 38′	29.85	758.2	35.6	2.0		w.			5		10		nw.			mod.	s.nw.	covered.
S. S. Gellert, New York, N. Y			25	— 3.9	87	nnw.			2		2		w.	1 h'r	1 h'r			clear.
S. S. Gallia, N. 44° 26′, W. 47° 30′			50	10.0		sw.			6		10			light	light	long	s.	light rain.
S. S. Labrador, N. 43° 42′, W. 58° 58′ *†	29.80	757.0	37.4	3		nw.			6		10		s.	0	0	r'gh	s.	covered.
S. S. Habsburg, N. 49° 13′, W. 16° 13′	30.61	777.5				nnw.			5		6		nw.	0	0	cross	var.	fair.
S. S. New York, N. 33° 00′, W. 78° 30′ *†	30.16	766.1				ne.			4		5		ne.	0	0	sm'h	ne.	fair.
S. Parker M. Whitmore, N. 29° 39′, W. 39° 00′ *†	30.36	771.1	69	20.6		ese.			6		6		ese.	1 h'r	1 h'r	high	ese.	fair.
S. S. Rialto, N. 46° 44′, W. 19° 31′			54	12.2		nnw.			3				n.	0	0	mod.	ne.	fine.
Bk. Saga, N. 36° 54′, W. 75° 49′†	30.22	767.7	42	5.6		var.			1–8		2		nw.	3 h'r	3 h'r	r'gh	var.	clear.
S. S. Virginian, N 47° 19′, W. 43° 00′*	30.21	767.3	50	10.0		wnw.			2				sse.	0	0	long	sse.	fair.
S. S. Wyoming, N. 40° 43′ W. 44° 19′	30.14	765.5	46	7.8		s.			6		8		sw.	2 h'r	2 h'r	mod.	s.	threatening.
S. S. W. A. Scholten, N. 42° 00′, W. 62° 51′	30.05	763.3	31.6	— 0.2	90	nw.			5		5		nw.	1 h'r	1 h'r	5	w.	
S. S. Westphalia, N. 41° 36′, W. 60° 12′	29.93	760.2	46	7.8	92	nw.			6		5		nnw.	6 h'r	6 h'r	r'gh	nw.	fair.
S. S. St. Laurent, N. 46° 30′, W. 40° 40′	30.26	768.6	57.2	14.		ssw.			7		10		s.	2 h'r	2 h'r	large	s.	overcast.
S. S. Crescent City, N. 20° 12′, W. 74° 07′*†	30.10	764.5	73	22.8		ene.			1								ene.	fine.
U. S. Navy Yard, Portsmouth, N. H*	30.09	764.3	12	—11.1	80	nw.	6	2.7			2		nw.	0.10	2.5			fair.
U. S. S. Alliance, Porto Plata, San Domingo, W.I	30.13	765.3	71	21.7	85	sw.			1		2		s.	0	0	sm'h		fair.
U. S. S. Kearsarge, Civita Vecchia, Italy	30.13	765.3	57	13.9	81	sse.			4		8		sse.					cloudy.
U. S. S. Lancaster, N. 43° 26′, E. 10° 17′	30.08	764.0	59	15.0	100	sw.			2		8		sw.	0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.20	767.1	17	— 8.3	83	nw.			2		0					sm'h		clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.06	763.5	57	13.9	81	s.			2		10		sw.			sm'h		cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W.I	30.05	763.3	73	22.8	76	ese.			1		0			0	0	sm'h		clear.
U. S. S. Tennessee, N. 21° 22′, W. 85° 25′	30.15	765.8	75	23.9	81	nne.	12	5.4			1		ne.	0	0	sli't	ne.	clear.
U. S. S. Trenton, Marseilles, France	30.07	763.8	56	13.3	87	w.			1		8		w.					fair.
U. S. S. Vandalia, La Guayra, Venezuela	30.01	762.2	74	23.3	81	ene.			1		8		calm					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.24	768.1	65	18.3	78	sw.			2		0							blue sky.
H. M. S. Alecto, N. 9° 35, W. 15° 05′	29.85	758.2	77	25.0		nnw.			2		1					3	sw.	blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.03	762.7	63	17.2	83	n.			4		8		nnw.					d. clouds.
H. M. S. Himalaya, N. 50° 03′, W. 4° 23′	30.05	763.3	44	6.7	92	nne.			3–6		8		nne.			5	nne.	d. clouds.
H. M. S. Monarch, N. 36° 00′ E. 14° 36′	30.17	766.3	66	18.9	68	ssw.			2		0					1	ssw.	blue sky.
H. M. S. Minotaur, Cagliari, Sardinia	30.14	765.5	54	12.2	93	s.			1		1		wsw.					blue sky
H. P. M. S. Douro, Ajuda, W. Africa	29.88	758.9	84.2	29.0	85	se.			4					0	0	2	sw.	
S. S. Lord Olive, N. 49° 36′, W. 28° 43′						wsw.			4		5		wsw.	shr's	shr's	mod.	wnw.	fair.
S. S. Nova Scotian, N 50° 22′ W. 14° 52′	30.54	775.7	46	7.8		nnw.			5		10		nnw.	0	0	high	nnw.	squally.
S. S. Prussian, Boston Light, Mass	30.21	767.3	17	— 8.3		nw.			3		5?		nw.	0	0	sm'h		clear.?
S. S. Dorian, N. 40° 42′, W. 70° 00′			27	— 2.8		ne.			2					0	0	long	se.	clear.
S. S. Llandaff City, New York, N. Y *†	30.26	768.6	28	— 2.2		sw.			2		10			0	0			cloudy.
S. S. Bothnia, N. 41° 31′, W. 55° 34′	29.85	758.2	62	16.7	100	nw.			3		10			4 h'r	4 h'r	con.	se.	heavy rain.
S. S. Hevelius, Liverpool, Eng*†	30.20	767.1	45	7.2		n.			7		5?		n.	12 h'r	12 h'r			clear.?
S. S. Archimede, (It) Palermo, Sicily			54	12.2		ne.			2		1		ne.	0	0			clear.
S. S. Dominion, N. 50° 46′ W. 13° 25′			48.5	9.2	74	n.			5		5		n.			r'gh	n.	fair.
S. S. Erin, Gravesend, Eng			46	7.8		ne.			5		6		e.	1 h'r	1 h'r			fine
S. S. Greece, N. 47° 10′ W. 36° 00′ †.	30.58	776.7	54	12.2		s.			5		9		s.	0	0	sli't	ssw.	hazy.
S. S. City of Augusta, New York, N. Y						wsw.			2		6		w.	0	0			cloudy.
S. S. Muriel, N. 31° 25′, W. 69° 50′	30.13	765.3	65	18.3		ne.			4		5		e.	0	0	r'gh	ne.	fair.
S. S. Waesland, N. 48° 32′, W. 34 20′	30.56	776.2	54	12.2		ssw.			6		10		sw.	0	0	r'gh		cloudy
S. S. Westernland, N. 47° 12′, W. 39° 18′	30.40	772.1	56	13.3	94	sse.			6		10		sse.	4 h'r	4 h'r	r'gh	s.	dull.
S. S. State of Nebraska, N. 52° 18,′ W. 30° 26′*†	30.35	770.9	53	11.7		sw.			4		6		sw.			mod.		d. clouds.
S. S. Saxon, Boston, Mass			20	— 6.7		wsw.			1		0			0	0			fine.
S. S. Celtic, Liverpool, Eng			44	6.7		n.			5		4		nnw.	7 h'r	7 h'r			fine.
S. S. Romano, N. 39° 31′, W. 64° 22′	30.10	764.5	46	7.8		nnw.			3		8		nnw.	0	0	mod.	nnw.	fine.
S. S. Salerno, N. 45° 37′, W. 41° 29′†	30.44	773.2	60	15.6		sw.			6		10		sw.	0	0	r'gh.	sw.	hazy.
S. S. Antonio Lopez, Cadiz, Spain	30.22	767.6				nw.			3		5			0	0			fair.
Bgt. Achsah, Clementsport, N. S.			20	— 6.7		nw.			2		4		nw.	0	0			clear.
Bk. Adelaide, N. 29° 57′, W. 45° 54′*†	30.23	767.8	72	22.2		s.			7		10		se.	8 h'r	8 h'r	long	se.	thnd'r st'rm.
Bk. Benjamin Dickerman, N. 26° 55′ W. 84° 15′ *†	30.18	766.6	72	22.2		nne.			4		2		nne.	0	0	short	sw.	smoky.
Bk. Bayonnaise, N. 36° 33′, W. 13° 40′			59.9	15.5		nne.			5		7		ne.	0	0	h'vy	ne.	
Bk. Celestina, N. 3° 58′ W 25° —′ *†	29.97	761.2				calm			0					4 h'r	4 h'r	sm'h		

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. Dora, N. 58° 13′, W. 27° 50′†	29.42	747.2	46.4	8.0		ssw.			7		8		sw.	3 h'r	3 h'r	mod.	sw.	misty.
Schr. Edith R. Seward, N. 36° 55′, W. 75° 56′			36	2.2		s.			1		4		calm	0	0			clear.
Bk. Gloire, N. 26° 13′, W. 24° 26′ *	30.20	767.1	72	22.2		ne.			6		3		e.	0	0	short	ne.	fair.
Bk. George Davis, Savannah, Ga						nnw.			1				n.	0	0		ne.	clear.
S. Hedwig, N 38° 22′ E. 17° 43′	30.20	767.1	60.4	15.8	91	ssw.			2		8		sw.	0	0	1	sw.	fair.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.16	766.1	62	16.7		e.			2					0	0			foggy.
S. Henry, N. 37° 32′. E 2° 19′*	30.13	765.3	59.0	15.0		wsw.			4		10					3	wsw.	cloudy.
Schr. John L. Thomas, South Hobbles Cays, C. A†	30.02	762.5	77	25.0	86	ene.			3		6		ene.	10 minutes		mod.	ene.	squally.
Bg. Lillan, N 24° 09′, W. 59° 40′ †	30.14	765.5	71	21.7		n.			2		10		n.	0	0	mod.	nne.	cloudy.
S. O. Laurel, Key West, Fla†	30.15	765.8	69	20.6		nne.			2		2		nne.	0	0			clear.
Bg. L. F. Munson, Halifax, N. S			20	— 6.7		nw.			5		2		nw.	8 h'r	8 h'r			clear.
S. S. Madrid, Shields, Eng†	30.09	764.3	39	3.9	91	n.			2		8		n	8 h'r	8 h'r			fair.
Schr. Minnie A. Bonsall, Jacksonville, Fla*†	30.14	765.5				s.			2					0	0			foggy.
Schr. Norena. N. 22° 40′, W. 63° 30′ †	30.11	764.8				ne.			2		4		e.	2 h'r	2 h'r	light	nne.	
S. Stephen D. Horton, N. 47° 31′. W. 26° 25′ †	30.66	778.7				nw.			2		10		ne.	0	0	long	nne.	cloudy.
Bk. Silica, N. 39° 29′. W. 47° 37′*	30.15	765.8				sse.			6		8		s.	sh'rs	sh'rs	r'gh	se.	showery.
Bg. Teneriffe, N. 28° 56′, W. 71° 42′	30.17	766.3				sw.			3		5		nne.	0	0	2	nne.	
S. S. City of Alexandria, N. 20° 39′, W. 94° 21′ *†	30.08	764.0	73	22.8		ne.			1								ene.	d. clouds.
S. S. City of Washington, N. 19° 50′, W. 90° 45′ *†	30.10	764.5	82	27.8		e.			2							sm'h		fine.
S. S. Schiedam, N. 45° 08′, W. 44° 02′			54	12.2		s.			5–6							5	w.	heavy rain.
S. S. Strathleven, N. 32° 48′, W. 77° 00′*	30.15	765.8	59.5	15.3	68	ne.			4		1					4	ene.	blue sky.
District No. 2—South Atlantic.																		
U. S. S. Pinta, S. 33° 56′, W. 51° 56′	29.81	757.2	70	21.1	80	w.			2		5		nw.			long	se.	fair.
H. M. S. Amethyst, S. 35° 48′, W. 56° 15′	29.61	752.1	75.5	24.2	79	nnw.			3		8	nw.				2	nnw.	overcast.
H. M. S. Boadicea, S 2° 57′, W. 15° 08′	29.88	758.9	83	28.3	87	e.			2		3	ene.				2	ene.	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	29.91	759.7	75	23.9	60	se.			8		3	se.						d. clouds.
S. S. George S. Homer, S. 56° 35′ W. 69° 56′ *†	29.55	750.6				sw.			6		3		sw.	3 h'r	3 h'r	r'gh	ssw.	squally.
Bk. Godeffroy, S. 24° 07′, W. 23° 44′	29.98	761.5	79.2	26.2	76	ne.			4		5		ne.	rain	rain	mod.	var.	fair.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.05	763.3	81	27.2		wnw.			2		2		w.	0	0			clear.
Bkt. Levanter, S. 34° 45′. W. 51° 59′*	29.77	756.1	74	23.3		nw.			2		3		n.	0	0	long	sse.	fair.
S. St. David, S 21° 16′, W. 25° 40′ *†	30.07	763.8	81	27.2	70	nne.			4		1		ne	0	0			fine.
Bk. Winifred, S. 23° 13′, W. 41° 25′ *†	29.86	756.9											s.	0	0		se.	clear.
S. David Stewart, S. 4° 59′, W 35° 02′ †	29.75	755.6	82	27.8		ene.			3		3		ese.	0	0	mod.	se.	hazy.
S. S. Teniers, S. 24° 24′, W. 41° 12′	29.78	756.4	82.0	27.8	74	var.			0–2	0	3 k	s.	s.	0	0	2	sw.	blue sky.
S. Oreola, S. 15° 37′, W. 30° 30′*	29.90	759.4				ese.			5		3		e.	1 h'r	1 h'r	sm'h		clear.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 19° 12′, E. 151° 42′	30.09	764.3	75	23.9	91	ne.			2		2		ne.			sm'h		clear.
U. S. S. Essex, Canton, China	30.14	765.5			93	n.			3		10		n.					overcast.
U. S. S. Juniata, Shanghai, China	30.49	774.4	38	3.3	81	ne.			1		10			light	light			light snow.
U. S. S. Monocacy, Shanghai, China	30.52	775.2	38	3.3	72	ene.			2		10		calm					cloudy.
U. S. S. Palos, Tientsin, China	30.51	774.9	26	— 3.3		w.			1		0							clear.
U. S. S. Ranger, Corinto, Nicaragua	29.97	761.2	76	24.4	82	e.			1		0			0	0	light	s.	clear.
H. M. S. Audacious, Victoria harbor, Hong Kong, China	30.15	765.8	61	16.1	88	e.			3		4	ene.						d. clouds.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.13	765.3	60	15.6	76	ne.			2		10					sm'h		overcast.
H. M. S. Champion, Shanghai, China			40	4.4	73	ne.			1		10							overcast.
H. P. M. S. Tamega, Macao, China	30.14	765.5	64.0	17.8	82	nne.			4		10			2 h'r	2 h'r			overcast.
S. S. Oregon, Columbia river. Oregon †	29.94	760.5	34	1.1	90	calm			0		10		sw.					cloudy.
S. S. Alameda, N 24° 15′, W. 156° 01′ †	29.82	757.4	69	20.6		ene.			6		2		ene.	0	0	mod.	ne.	clear.
S. S. Ancon, San Francisco, Cal	29.91	759.7	52	11.1	93	calm			0		0			0	0			clear.
S. S. City of Chester, Eureka, Cal†	29.93	760.2	44	6.7	100	calm			0		0			0	0			clear.
S. S. Queen of the Pacific, N. 46° 58′, W. 124° 50′	29.83	757.7	44	6.7	68	wnw.			2		3?		w.	1 h'r	1 h'r	sm'h		cloudy.?
S. S. State of California, San Francisco, Cal †	29.99	761.7	50	10.0	100	calm			0		0							clear.
S. S. City of Rio de Janeiro, N 28° 46′, E. 160° 58′ †	30.01	762.2				w.			5		6		wnw.			mod.	w.	fair.
S. S. Colima, N. 35° 30′, W 121° 50 †	29.93	760.2	54	12.2	100	se.			3		10		se.	0.15	3.8	mod.	sse.	overcast.
S. S. Granada, N. 8° 40′, W. 84° 00′ †	29.89	759.2	79	26.1	86	calm			0		0			0	0	light	wnw	clear.
S. S. San Blas, N. 9° 09′, W. 84° 58′†	29.86	758.4	77	25.0	95	calm			0		4		calm	0	0	small	wsw.	hazy.
S. S. Zealandia, N. 1° 12′, W. 165° 24′	30.01	762.2	79	26.1	74	e.			4		2		e.	0	0	mod	ene.	clear.
S. Carondelet, N. 3° 55′, E 138° 44′*†	29.94	760.5				nne.			5		2		nne.	3 h'r	3 h'r	mod.	nne.	clear.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 3° 32′, W 109° 44′	29.90	759.4	77	25.0	95	ese.			3		5		ese.	0	0	sm'h	e.	fair.
U. S. S. Onward, Callao, Peru*†	30.04	763.0	71	21.7	95	calm			0		10					sm'h		foggy.
U. S. S. Wachusetts, Callao, Peru*	29.93	760.2	71	21.7	100	se.			1		8		calm			sm'h		cloudy.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	30.06	763.5	59	15.0	76	ne.			2		4							d. clouds.
H. M. S. Lark. S. 36° 50′, E. 174° 48′	30.25	768.3	61.3	16.3	88	calm			0		6					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.91	759.7	59	15.0	88	calm			0		8							raining.
S. S. Australia, S. 34° 14′, E. 163° 47′	30.22	767.6	66	18.9	94	n.			6		6?		n.	0	0	h'vy	nnw.	overcast?
S. Grecian, S. 55° 16′, W. 82° 32′ †	29.91	759.7	50	10.0	79	w.			6		10	s.	w.	1 h'r	1 h'r	mod.	sw.	overcast.
S. Ismir, S. 31° 34′, W. 89° 10′*†	30.30	769.0				ese.			5		1		ese.	2 h'r	2 h'r	rg'h	sse.	clear.
S. St. Francis, S. 8° 00′, W. 107° 00′*†	30.05	763.3	74	23.3	81	se.			4		3		se.	¼h'r	¼h'r	mod.	se.	clear.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.89	759.2	68	20.0		calm			0		4	n.				sm'h		
H. M. S. Sylvia, off Sandy Point, Patagonia	29.60	751.8	47.5	8.6	64	sw.			5–8		5							squally.
S. Henry Falling, S. 56° 18′, W. 76° 46′ *†	29.78	756.4	47	8.3	100	wsw.			4		8		w.	2 h'r	2 h'r	sm'h	w.	cloudy.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, S. 27° 23′, E. 45° 38′	29.93	760.2	78	25.6	82	se.			5		8		se.	0.25	6.3	mod.	se.	cloudy.
H. M. S. Euryalus, Suakin, Egypt	30.09	764.3	73	22.8	76	n.			4		3	n.						d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.77	756.1	83	28.3	79	ese.			1		3							d. clouds.
S. S. Port Phillip, S. 34° 38′, E. 113° 18′*	29.94	760.5	69	20.6	95	e.			2–3							con.	se.	cloudy.
S. S. Radnorshire, Suez Egypt						nne.			1		0			0	0			clear.
S. S. Lepanto, Suez Bay, Egypt	30.30	769.6	62	16.7		calm			0		3		n.	0	0			fine.
H. M. S. Magpie, N. 6° 32′, E. 99° 16′	29.83	757.7	84.9	29.4	76	w.			1		0							blue sky.

International Chart I. February 2, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 3, 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.17	766.2	63.3	17.4	76	w.			1		0			0	0	clear	Roziere.
Algiers			30.18	766.5	57.9	14.4	65	ene.			3		1			0	0	very fair	Thève.
La Galle			30.22	767.6	60.4	15.8	73	ne.			3		2			0	0	fair	Fonfrède.
Tunis			30.24	768.0	57.2	14.0	63	sw.			3		3			0	0		Delord.
Geriville					60.8	16.0	24	se.			1		0			0	0	clear	Forfert.
Laghouat			30.31	769.8	66.9	19.4	87	calm			0		0			0	0	clear	Abraham.
Biskra			30.36	771.1	68.4	20.2	57	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.15	765.8	55.7	13.2	57	calm	0	0			1 k			0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.88	751.3	29.77	756.1	44	6.7	77	s.	27	12.1			7		ssw.	0.18	4.6	raining	Com. J. Shortt, R.N.
Melbourne, Victoria	29.88	758.9	29.97	761.2	53.0	11.7	70	sw.	11	4.9			7			1.000	25.4	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.63	752.5	30.19	766.9	45.7	7.6	79	ne.			1		10			0.012	0.3		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.46	748.3	30.26	768.7	36.1	2.3	65	nw.	6.3	2.8			9			0	0		Dr. Wierzbiski
Eperies	29.27	743.4	30.19	766.8	35.2	1.8	82	se.			3		10 s			0.051	1.3		Julius Mikolik.
Gratz	28.92	734.6	30.21	767.2	45.1	7.3	67	sw.			1		5			0	0		Andreas Rospini.
Hermannstadt	28.67	728.2	30.13	765.4	47.3	8.5	61	nw.			3		6			0.008	0.2		Prof. A. Gottschling
Kremsmunster, Obs'y	28.88	733.6	30.26	768.7	43.0	6.1	71	wnw.			2		10			0	0		The Staff.
Lemberg	29.08	738.6	30.11	764.7	36.0	2.2	75	nw.			3		10			0.043	1.1		Dr. T. Stanecki.
Pola	30.11	764.7	30.22	767.6	51.4	10.8	92	wnw.			2		5			0	0		I. R. Hydrographic Office.
Szathmar	29.62	752.4	30.10	764.6	39.4	4.1	90	n.			4		7			0	0		Joseph Midlinszky, S. J
Szegedin	29.89	759.1	30.17	766.4	50.4	10.2	78	calm			0		10			0	0		Karl Stancel.
Trieste	30.16	766.0	30.26	768.5	48.0	9.4	95	calm			0		10			0.071	1.8		Royal Academy.
Vienna	29.54	750.4	30.29	769.3	41.4	5.2	78	nnw.			2		10			0.028	0.7		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	29.00	736.6	30.46	773.6	37.0	2.8	82	ne.			1		1			0.472	12.0		
Brussels	30.25	768.4	30.47	773.8	39.0	3.9	62	wnw.			1		7			0.429	10.9		
Furnes	30.42	772.7	30.44	773.2	42.6	5.9	80	nnw.			0–1		2			0.028	0.7		
Maeseyck	30.27	768.9	30.40	772.1	42.3	5.7	67	nnw.			1		2			0.228	5.8		
British.																			
Aberdeen	29.82	757.4	29.92	760.0	47.5	8.6	96	wsw.	14	6.3			7			0	0	d. clouds	W. Boswell.
Bidston, Liverpool Obs'y			30.42	770.1	45.1	7.3	84	wsw.	23	10.3			10					overcast	John Hartnup.
Bolton, Sharples	29.76	755.9	30.31	769.9	34.7	1.5	90	w.	3	1.3			10					raining	Thomas Mackereth.
Bradford, Yorkshire																0.01	0.3		McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.07	763.8	30.10	764.5	78	25.6	70	ne.			2		3					blue sky	Corp'l C. McGregor, A.H.C
Cardington					35.6	2.0	85	sw.			1.0		8					overcast	John McLaren.
Chatham, School M. E.	30.27	768.8	30.45	773.4	39.6	4.2	64	w			2		8			blank	blank	misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.33	770.4	30.57	776.5	43.4	6.3	67	wsw.			1		5					d. clouds	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.74	755.4	29.97	761.2	82	27.8	83	ne.			3		0?					d. clouds ?	J. W. Smith.
Galway, Queen's College	30.31	769.9	30.35	770.9	48	8.9	92	wsw.			2		8			0.01	0.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.10	764.5	30.16	766.1	56.4	13.6	97	e.			2		10					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	30.29	769.4	30.47	773.9	37.0	3.3	58	wsw.					10					overcast	The Staff.
Guernsey	30.26	768.6	30.47	773.9	43.1	6.2	67	n			1		1					blue sky	A. Collenette, F.R.M.S.
Kew, Observatory	30.45	773.4	30.49	774.4	37.1	2.8		wsw.	11	4.9			10					overcast	The Staff.
Leicester, Museum	30.13	765.3	30.40	772.1	36.0	2.2	90	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.15	765.8	30.23	767.8	63.6	17.6	75	sw.			2					0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.19	766.8	69.0	20.6	77	ne.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.22	767.6	30.45	773.4	37.7	3.2	74	sw.			2		4					misty	The Staff.
Plymouth	30.45	773.4	30.53	775.4	42.3	5.7	80	wsw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.61	752.1	29.71	754.6	46.2	7.9	96						10					raining	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.08	764.0	30.15	765.8	52.4	11.3	73	calm			0		8					d. clouds	W. H. Lyne.
Sheffield	29.99	761.7	30.28	769.1	43.0	6.1	75	wsw.			2		9					overcast	W. F. Cooper.
Silloth Rectory	30.17	766.3	30.20	767.1	43.8	6.6	97	sw.			3		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.31	769.9	39.9	4.4	96	w.	18	8.0			10			0.197	5.0	raining	Rev. S. J. Perry.
Strathfield Turgiss					38.3	3.5	76	sw.			1.0		10					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.46	773.7	30.48	774.2	50.5	10.3	79	w.	16	7.2			9					d. clouds	The Met'r'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.85	758.2	30.24	768.1	61.5	16.4	83	sw.	5.0	2.2		0	3 n		sw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.08	764.0	30.12	765.0	12.0	−11.1		calm	0	0		3 cs	0	nw.		0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	763.0	30.09	764.3	16	− 8.9	75	w.	12	5.4		0	0			0.060	1.5	clear	H. J. Caudall, C. E.
Chatham, N. B*	30.06	763.5	30.13	765.3	0	−17.8	100	sw.	1	0.4		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.19	766.8	30.41	772.4	3.4	−15.9	97	e.			1		10 s			0.300	7.6	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.05	763.3	30.10	764.5	7.0	−13.9		w.			3	0	3 ks			0	0	d. clouds	H. A. Johnson.
Father Point, Quebec*	30.14	765.5	30.17	766.3	5	−15.0	91	nw.	25	11.2			10 n		nw.	inap.	inap.	cloudy	J. McWilliams
Fort Garry, Manitoba*	29.70	754.4	30.70	779.8	−24	−31.1	100	calm	0	0			10 n			0	0	hazy	James Stewart.
Fredericton, N. B	30.14	765.5	30.22	767.6	6.1	−14.4	98	calm	0	0		0	0			0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B	30.19	766.8	30.25	768.3	22	− 5.6	73	w.	14	6.3		5 k	0	w.		0.02	0.5	fair	J. Chipman Seeley
Granton, Ontario	29.15	740.4	30.34	770.6	20.3	− 6.5	96	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.03	762.7	30.17	766.3	27	− 2.8	70	nw.	14	6.3		2 k	0	w.		inap.	inap.	clear	A. Allison.
Hamilton, Ontario	29.84	757.9	30.28	769.1	22.1	− 5.5	81	ne.			1	9 ck	0	ne.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	30.02	762.5	30.40	772.1	2	−16.7	76	nw.	12	5.4			10 n		w.	0.03	0.8	light snow	A. P. Knight, M. A.
Little Glace Bay, N. S	29.99	761.7	30.04	763.0	23.0	− 5.0	73	w.	2	0.9		3 k	0	w.		0	0	fair	C. H. Rigby.
London, Ontario	29.34	745.2	30.31	769.9	22.8	− 5.1	89	e.			1		10 ks			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.92	709.2	30.54	775.7	−11	−23.9	100	n	4	1.8			10 n			0.14	3.6	cloudy	John Ewart.
Minnedosa, N. W. T	28.40	721.3	30.69	779.5	−22	−30.0	100	nw.	3	1.3		0	0			0.01	0.3	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	30.22	767.0	30.45	773.4	1	−17.2	83	w.	1	0.4		0	2 s			0.09	2.3	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.20	767.1	30.45	773.4	1.9	−16.7	73	n.					10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.64	752.8	30.42	772.7	3	−16.1	72	n.	10	4.5			10 n		ne.	0.04	1.0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.59	751.0	30.40	772.1	12.9	−10.6	78	e.			1		10 kn					snowing	Wm. O'Connor, M.A.
Port Arthur	29.77	756.1	30.59	777.0	−12	−24.4	90	w.	4	1.8		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.55	750.6	30.30	769.6	22	− 5.6	100	ne.	3	1.3			10 n			0	0	cloudy	E. Morgan
Port Stanley, Ontario	29.58	751.3	30.27	768.8	24	− 4.4	80	e.	5	2.2			10 n		e.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	28.02	711.7	30.70	779.8	−20	−28.9		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.95	760.7	30.36	771.1	− 4	−20.0	83	calm	0	0		5 c	0	w.		0.05	1.3	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.95	760.7	30.49	774.4	− 3	−19.4	83	ne.	8	3.6			10 n			0	0	hazy	W. H. McIntyre
St. Andrews, N. B	30.16	766.1	30.21	767.3	20	− 6.7	97	nnw.	3	1.3		0	0			0	0	clear	
St. John, N. B	30.06	763.5	30.22	767.6	17.0	− 8.3	91					0	5 k			0.700	17.8	fair	G. Hutchinson.
St. Pierre, N. F			30.04	763.0	24.8	− 4.0		nw.			3								The Commandant.
Saugeen, Ontario*	29.57	751.1	30.35	770.9	13	−10.6	83	ne.	12	5.4			10 s			0.01	0.3	cloudy	
Stratford, Ontario	28.93	734.8	30.31	769.9	17.1	− 8.3	72	calm	0	0			10 s			0	0	overcast	W. McBride, M.A.
Sydney, C. B*	29.95	760.7	30.02	762.5	21	− 6.1	91	sw.	6	2.7			10 n			0.03	0.8	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.96	761.0	30.37	771.4	18	— 7.8	87	n.	10	4.5			10 n			0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.20	741.7	30.35	770.9	19.6	— 6.9	87	ne.	10	4.5		0	8 s			0	0	d. clouds	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.18	766 6	30.25	768.3	28	— 2.2	77	nw.	14	6.3			10 k		nw.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.92	760.0	29.95	760.7	76.5	24.7	88	calm				0	0			0	0	clear	I. Garfelt.
Cape Town, The Castle	29.84	757.9			77.0	25.0	59	ssw.				0	3 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.82	706.6			87	30.6	39									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.83	757.6	29.90	759.5	65.3	18.5	87	n.			3	10						cloudy	Samuel Redolez.
Iquique	29.80	756.9	29.83	757.6	76.8	24.9	68	sw.			2							foggy	Rafael Moreno.
Niebla	29.79	756.6	29.89	759.3	54.3	12.4	59	e.			3	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.78	756 4	29.87	758.6	70.7	21.5	86	sw.			1	8 c		sw.				fair	Manuel Tobar.
Punta Corona	30.14	765.6	30.33	770.3				s.			3	0				0	0	clear	Francisco Alvarado.
Valparaiso	29.72	755.0	29.86	758.5	65.3	18.5	87	sw.			1	4 c	0					fair	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.23	767.8	30.25	768.4	33.3	0.7	93	nne.	13.0	5.8			10 n			1.339	34.0	snowing	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.07	763.8	30.12	765.0	35.4	1.9	86	sw.	18	8			10					hazy	Oversergent Fischer.
Fanöe	30.06	763.6	30.08	764.1	38.3	3.5	80	w.			6		10						Overloerer Lauridsen.
Godthaab, Greenland	29.57	751.1	29.61	752.2	— 8.9	—22.7	100	nw.			2		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.61	752.0	29.63	752.5	— 4.4	—20.2		calm			0		5						
Jacobshavn, Greenland	29.48	748.9	29.53	750 1	—11.9	—24.4		s.			4		10						
Stykkisholm, Iceland	28.45	722.5	28.49	723.6	37.4	3.0	91	sw.			4		10					snowing	A. O. Thorlacius.
Thorshavn	29.23	742.4	29.25	743.0	45.7	7.6	94	w.	27	12			10					raining	Overloerer Bergh.
Upernavik, Greenland	29.34	745.1	29.38	746 3	—15.0	—26.1		e.			2		3					misty	
Vestervig	29 86	758.4	29.95	760.7	38.3	3.5	78	wsw.			7		10					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	30.13	765.2			63.0	17.2		n.	0.9	0.4		0	0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.82	757.4	30.48	774.3	47.1	8.4	94	ssw.			1		10 cn		sw.	0.047	1.2		M. Labroue, Director.
Alençon, Normal School	30.10	764.5	30.65	778.5	39.2	4	90	se.			1		1		nw.	0	0	clear	M. Nicot, Director.
Arras, Normal School					41.0	5	64	n.			1		2			0.228	5.8	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	30.19	766.9	30.27	768.9	54.0	12.2	56	nnw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.87	758 8	30.46	773.7	37.8	3.2	93	se.			1		10		sw.	0.165	4.2	covered	M. Saillard, Director.
Beauvais, Normal School	30.25	768.4	30.53	775.5	40.3	4.6	71	nne.			1		2			0.008	0.2	slightly cl'dy	M. Frère Eugène Marlè.
Besançon, Normal School	29.45	748.0	30.38	771.6	40.3	4.6	93	sw.			1		n		ne.	0	0		M. Gobin, Director.
Bordeaux, Observatory	30.12	765.1	30.39	771.9	45.7	7.6	87	ne.			1		10		ne.	0.091	2.3	covered	M. Rayet, Director.
Bourges, Normal School	29.95	760.8	30.53	775.5	40.3	4.6	93	n.			4		n		n.	0.079	2.0		M. Sauvageot, Director.
Brest, Naval Observatory	30.35	771.0	30.60	777.1	44.2	6.8	70	ne.			1		2		ne.	0.118	3.0		M. de Kermarrée, Dir.
Caen, Normal School	30.56	776.1	30.63	778.1	43.9	6.6	97	nnw.			1		2		nnw.	0.024	0.6	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch	30.09	764.3	30.42	772.7	43.3	6.3	89	sw.			2		5		w.	0.051	1.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.96	760.9	30.49	774.5	40.3	4.0	79	ne.			1		5			0.16	4.	½ covered	M. Noël, Director.
Clermont-Ferrand Obs'y	29.02	737.2	30.45	773.3	39.2	4.0	83	n.			2		10			0.020	0.5		M. Alluard, Director.
Cluny, Normal School	29.53	750.0	30.41	772.4	41.4	5.2	85	ne.			1		10			0	0	foggy	M. de Villemontée, Dir.
Commercy, Normal School	29.54	750.2	30.43	773.0	41.2	5.1	77	n.			1		5 n	n.	n.	0.063	1.6	cloudy	Dr. Coulet, Director.
Gap, Normal School	27 69	703 4	30.28	769.0	45.0	7.2	69	n.			4		4 kn			0	0		M. Jarach, Director.
Grésasque, du Rhone	29.13	739 9	30.28	769.0	51.1	10.6	84	sw.			1		2		sw.	0.157	4.0		M. Klua, Director.
Grenoble, Normal School	29.53	750.1	30.32	770.0	49.3	9.6	92	e.			1		kn		se.	0	0		M. Ablard, Director.
Guéret, Normal School	28 82	732.1	30.46	773.6	34.7	1.5	89	w.			1		n		sw.	0.08	2.		M. Delorme, Dir.
Lescar, Normal School	29.82	757.4	30.39	771.9	54.1	12.3	61	ese.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.48	774.3	30.59	776.9	44.2	6.8	44	ne.			2		5		ne.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.32	744.8	30.38	771 7	42.3	5.7	87	nne.			2		8 n			0	0	very cloudy	M. André, Director.
Mans, Normal School	30.22	767.5	30.54	775.7	41.0	5		e.			1		5 k		e.	0.256	6.5	cloudy	M. Richard, Director
Marseille, Observatory	29.98	761.5	30.26	768.5	55.0	12.8	64	wnw.			1		3		wsw.	0	0		M. Stephan, Director.
Montlouis	25.01	635.2	29.85	758.2	37.0	2.8	69	e.	9.4	4.2			5	se.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.12	765.1	30.23	767.0	57.6	14.2	74	n.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.58	751.2	30.39	771.8	40.6	4.8	77	nnw.			1		n			0.232	5.9		M. Hasse, Director.
Nantes, Observatory	30.39	772.0	30.56	776 1	43.2	6.2	56	ne.			1–2		9 k; kn		ese.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.24	768.0	30.35	770.9	54.9	12.7	47	nw.	13.0	5.8			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.24	539.5			19.4	— 7.0							5			0.079	2.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.25	743.0	30.34	770.6	51.1	10.6	62	n.			1		k		n.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.36	644.2			28.4	— 2.0	100	nw.			2		10			0.102	2.6		M. Alluard.
Rochefort, Naval Obs'y	30.45	773.4	30.48	774.2	45.3	7.4	61	ne.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.88	758 9	30.50	774.6	40.6	4.8	74	ne.			4				sw.	0	0		M. Brotier, Director.
Rodez, Normal School	28.18	715 7	30.39	772 0	43.7	6.5		nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.49	774.5	30.54	775.7	42.1	5.6	70	n.			1		5	n.		0	0	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	30.34	770.6	30.50	774.8	40.1	4.5	73	n.			1		2		nne.	0.024	0.6	slightly cl'dy	M. Renou, Director.
Toulouse, Observatory	29.69	754.0	30.42	772 6	50.7	10.4	74	ene.			1		2	w.		0	0	slightly cl'dy	M. Baillard, Director.
Tours	30.33	770.3	30.52	775.1	42.4	5.8	69	nne.			1			ne.	ne.	0.177	4.5		M. de Tastes.
Versailles, Observatory	30.00	761.9	30.49	774.4	40.3	4.6	54	ne.			2		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.26	768.5	30.41	772.3	50.2	10.1	79	n.	5.8	2.6			5 k		e.	0.256	6.5		M. Cartier, Director.
German.																			
Ansbach	28.87	733.2	30.39	771.9	37.2	2.9	82	ne.			2		10	ne.		0.079	2.0		Prof. Jnedt.
Bamberg	29.43	747.6	30.29	769 3	37.4	3.0	73	ne.			1		6 ks			0.071	1.8		Prof. Dr. Hoh.
Berlin	30.18	766.5	30.33	770.3	36.3	2.4	61	w.			2		1			0.075	1.9		Meteorological Institute
Breslau	29.76	755.9	30.30	769.5	33.8	1.0	60	nw.			3		1			0.039	1.0		Royal University Obs'y
Carlsruhe	29.92	760.0	30.40	772.2	40.6	4.8	84	ne.			1		9	ne.		0.055	1.4		Albert Senz.
Cassel	29.65	753.1	30.37	771.3	36.3	2.4	66	nw.			1		3	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.00	762 1	30.39	771.8	41.7	5.4	68	nw.			1		5			0.213	5.4		Physical Society.
Friedrichshafen	28.89	733.8	30.36	771.2	41.4	5.2	84	sw.			2		10	w.		0.102	2.6		Wilhelm, Chief Tel.
Hamburg	30.23	767.9	30.32	770.2	34.0	1.1	77	wsw.			3		6			0	0		E. Preller.
Kiel	30.21	767.3	30.22	767.7	35.4	1.9	77	w.			2		10			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.93	760.3	30.37	771.5	35.1	1.7	68	wnw.			1		6	wnw.		0	0		H. Leppig, Asst.
Magdeburg	30.16	766.1	30.36	771.2	34.9	1.6	71	w.			2		6 k	sw.		0.016	0.4		Weather Observatory.
Memel	30.00	762.0	30.05	763.2	34.0	1.1	75	nw.			6		3 k						Issermann.
Munich	28.44	722.3	30.32	770.1	42.6	5.9	75	nw.			2		8	nw.		0.016	0.4		Central Station.
Neufahrwasser	30.15	765.8	30.17	766.2	35.1	1.7	71	w.			1		0			0.024	0.6		A. Lothes.
Neustadt, Palatinate	29.81	757.1	30.34	770.6	42.1	5.6	71	ne.			1		8	nw.		0.122	3.1		Prof. Dicknether.
Stuttgart	28.98	736.1	30.30	769.7	40.1	4.5	87	n.			1		10			0.035	0.9		Prof. Dr. Schoder.
Wustrow	30.21	767.2	30.23	767.9	34.5	1.4	82	sw.			5		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.82	757.4	30.21	767.3	58.3	14.6		s.			1.0	0	0			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.84	758.0	29.90	759.3	69.7	20.9	67	wnw.	27.0	12.1			10		nw.	0.04	1.0	overcast	
Deesa	29.43	747.4	29.90	759.5	78.5	25.8	32	wsw.	13.0	5.8			4	sw.		0	0	d. clouds	
Bombay	29.87	758.6	29.91	759 6	79.1	26.2	63	w.	11.0	4.9			0			0	0	blue sky	
Poona, Yarrowda	28.04	712.1	29.88	758.9	83.8	28.8	19	ssw.	9.0	4.0			0			0	0	blue sky	
Belgaum	27.37	695.2	29.89	759.1	80.6	27.0	29	calm	0	0			0			0	0	blue sky	
Lahore	29.08	738.7	29.86	758.4	59.8	15.4	79	calm	2.0	0.9			10			0	0	overcast	
Roorkee	29.02	737.0	29.94	760.5	67.7	19.8	47	calm	0.5	0.2			10	w.		0	0	overcast	
Agra	29.33	745.0	29.90	759.4	79.2	26.2	32	sw.					2		w.	0	0	d. clouds	
Nagpur	28.91	734.3	29.96	761.0	77.7	25.4	24	calm	1.0	0.4			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.61	726.6	29.98	761.4	77.0	25.0	23	sw.	2.0	0.9			0			0	0	blue sky	
Lucknow	29.55	750.6	29.93	760.3	74.2	23.4	31	calm	0	0			0			0	0	blue sky	
Allahabad	29.60	751.8	29.92	760.0	70.4	21.3	58	calm	0	0			2			0	0	d. clouds	
Patna	29.74	755.5	29.94	760.3	70.5	21.4	43	calm	1.8	0.8			4			0	0	d. clouds	
Hazaribagh	27.89	708.5	29.94	760 5	69.1	20.6	25	w.	4.0	1.8			1			0	0	d. clouds	
Cuttack	29.99	761.8	30.08	763 9	73.2	22.9	41	nnw.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	29.94	760 6	29.97	761.2	69.0	20.6	52	w.	0.5	0.2			0			0	0	blue sky	
Dhubri	29.88	758.8	30.00	762.0	64.7	18.2	53	calm	3.7	1.6			0			0	0	blue sky	
Chittagong	29.91	759.6	30.00	762.0	65.6	18.7	49	wsw.	2.7	1.2			0			0	0	misty	
Sibsagar	29.70	754.2	30.05	763.3	58.3	14.6	81	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.44	722.4	29.89	759 3	76.7	24.8	44	wsw.	4.5	2.0			3	w.		0	0	d. clouds	
Zanzibar	29.82	757 4	29.84	758.0	85.5	29.7	55	ne.	7.7	3.4			0			0	0	blue sky	
Bellary	28.42	721.9			83.5	28.6	25	ne.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.69	754.1			79.4	26.3	42	e.	0.3	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.82	757.4	30.24	768.2	51.8	11.0	85	s.	0.7	0.3			8			0	0		Prof. Giovanni Olodig.
Milan	29.74	755.3	30.28	769 0	46.4	8.0	83	sw.	3.8	1.7			3	ssw.		0.012	0.3		Prof. G.V.Schiapparelli
Padua	30.13	765.3	30.24	768.2	47.8	8.8	58	nw.	0.7	0.3			0	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.33	744.9	30.26	768.7	44.6	7.0	72	nnw.	0.7	0.3			0			0	0		Prof. F. F. Denza.
Genoa	30.03	762.7	30.22	767.7	56.3	13.5	70	s.	3.8	1.7			4	n.		0.031	0.8		Prof. G. M. Garibaldi.
Pesaro	30.20	767.1	30.25	768.4	45.0	7.2	90	n.	13.0	5.8			10	sw.		0	0		Prof. Luigi Guidi.
Florence	29.97	761.3	30.23	767.9	53.6	12.0	81	s.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	30.10	764.5	30.16	766.1	56.7	13.7	82	s.	2.5	1.1			8	wsw.		0	0		Prof. P. Monte.
Rome	30.06	763.5	30.24	768.0	58.6	14.8	66	ene.	0	0			10			0	0		Prof. P. Tacchini.
Lecce	29.96	760.9	30.22	767.5	57.6	14.2	63	sse.	6.9	3.1			10	se.		0	0		Prof. C. de Giorgi.
Cosenza	29.31	744.5	30.23	767.8	46.4	8.0	74	sse.	2.5	1.1			6	se.		0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	30.01	762.3	30.27	768.8	59.7	15.4	65	ne.	4.3	1.9			3			0	0		Prof. G. Cacciatore
Syracuse	30.15	765 8	30.20	767.0	54.3	12.4	63	wsw.	1.3	0.6			0			0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.71	754.7	30.25	768.3	55.2	12.9	71	wsw.	3.8	1.7			4	nw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.03	762 8	30.06	763.7	31.1	— 0.5	99	nw.			6		10 k;s		nw.	0.130	3.3	cloudy	H. Hattori.
Awomori	29.95	760.7	29.99	761.7	27.5	— 2.5	88	wnw	28.9	12.9			9ks;n		wnw.	0.207	0.8	overcast	K. Ogawa.
Hakodate	29.95	760.6	29.96	760 9	25.4	— 3.7	80	w	24.0	10.7		10 cs	10 s			0.015	0.4	covered	Y. Souma.
Hamamatsu	30.05	763.3	30.15	765.8	37.8	3.2	63	w.			6	0	0			0	0	clear	Sekigawa & Yamasaki.
Hiroshima, I. M. Obs'y	30.22	767.7	30.24	768.1	39.7	4.3	66	n.	3.6	1.6		10 cs	0	w.		0	0	cloudy	Y. Okamoto.
Kagoshima	30.14	765.5	30.15	765.8	43.9	6.6	72	ene.			4		10 n		e.	1.154	29.3	light rain	
Kanazawa	30.10	764.5	30.20	767.2	37.0	2.8	81	s.	5.8	2.6			10s;ks		w.	0.360	9.1	overcast	S. Endo.
Kioto	30.05	763.3	30.22	767.7	31.9	— 0.1	92	n.	0.1	0.04		1 ck	1 s	w.		0.052	1.3	clear	M. Tojima.
Kochi	30.19	766.9	30.21	767.4	41.1	5.1	77	e.	0.9	0.4			10 s			0.552	14.0	overcast	K. Kusunose.
Miasaka	30.17	766.3	30.20	767.0	43.0	6.1	84	nnw.			1		10 n		w.	1.046	41.8	raining	K. Masusaki.
Miyako	29.89	759.1	29.99	761.7	29.9	— 1.2	70	sw.	3.7	1.6			10 s			0	0	cloudy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.99	761.7	30.20	767.1	34.9	1.6	91	ne.	3.3	1.5			10 n			1.200	30.5	sleeting	
Nemuro	29.80	756 9	29.85	758.2	21.9	— 5.6	71	sw.	9.0	4.0		1 k	0			0	0	clear	A Shibuya.
Niigata	30.09	764.3	30.12	765.0	36.0	2.2	86	w.	12.4	5.5			10s;ks		w.	0.180	4.6	cloudy	Satoo & Tomikawa.
Nobiru	30.01	762 3	30.03	762.7	31.5	— 0.3	78	nw.	2.0	0.9			9k;ks		nw.			light snow	Yoshino & Midzushina.
Numadzu	30.02	762.5	30.06	763.5	35.3	1.8	70	ene.			4	0	0			0	0	clear	T. Ohgi.
Osaka	30.21	767.4	30.23	767.8	35.4	1.9	80	e.	3.1	1.3		0	0			0.065	1.6	clear	H. Omura.
Sakai	30.23	767.9	30.24	768.1	35.9	2.2	80	calm			0		10 ks		w.	0.232	5.9	cloudy	Yamawchi & Sakamoto.
Sapporo	29.83	757.8	29.90	759.6	17.0	— 8.3	78	calm	0	0			9 ns			0	0	overcast	S. Kimura.
Shimonoseki	30.11	764.9	30.25	768.4	38.4	3.6	73	nne.			1		10 n			0.681	17.3	raining	S. Sakano.
Wakayama	30.16	766.1	30.22	767.5	35.8	2.1	76	calm	0	0		5 cs	0	w.		0.091	2.3	fair	K. akai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.70	754 4	29.89	759.2	82.4	28.0	68	ene.	12.5	5.6		2 c	4 k		ese.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.36	618.7	30.17	766.3	47.8	8.8	70	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.80	756.8	30.06	763.5	68.0	20.0	90	ese.	1.6	0.8			10 n		se.	0	0	foggy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.46	773.6	30.46	773.6	41.4	5.2		sw.			3					0.028	0.7		
Groningen	30.34	770.7	30.40	772.1	37.2	2.9		sw.								0.004	0.1		
Helder	30.34	770 6	30.34	770.6	40.5	4.7		sw.			5					0.043	1.1		
Hellevoetsluis	30.43	772.8	30.43	772.8	48.2	9.0	76	wsw.			3					0	0		
Utrecht	30.39	771.8	30.44	773 2	39.9	4.4	76	wsw.			2		7			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.7			81.3	27.4	80	nne	0	0			3			0.079	2.0		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.53	750.1	29.60	751.7	41 7	5.4	97	sw.	22	10			10			1.165	29.6	raining	
Brono	29.13	739.9	29.17	740.9	35.6	2.0	82	sw.			2		8			0	0		
Christiania	29.45	748.1	29.61	752.0	28.8	— 1.8	78	nw.	7	3			8			0	0		
Gjæsvær	29.19	741.3	29.21	741 9	27.0	— 2.8		ssw.			4		0			0.209	5.3		
Lodingen	29.07	738 4	29.12	739.6	28.2	— 2.1	54	calm			0		8			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.06	763.6	30.15	765.9	55.4	13.0	58	nw.	4.9	2.2			2			0.701	17.8		Capt. D. A. de Cunha.
Lisbon, Observatory	29.90	759.4	30.25	768.3	45.5	7.5	77	nne.	17.4	7.8			7			0	0		The Staff.
Ponta Delgada, Azores	30.58	776.8	30.65	778.0	57.2	14.0	67	ne.	18.6	8.3			3	wnw		0.039	1.0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	29.93	760.1	29.96	760.9	70.5	21.4	75	e.			6		7			0	0	hazy	
San Salvador, Congo	28.02	711.8	29.83	757.6	86.0	30.0	56	sw.			2		6			0	0		
Serra da Estrella	25.38	644.6	30.35	770 8	29.1	— 1.6	96	ese.			4		7			0	0		
RUSSIAN.																			
Akmolinski	28.72	729 5	29.93	760.3	— 6.0	—21.1	86	ese.	7	3		0	0			0.004	0.1		Major K. Lasarew.
Archangel	29.48	748.8	29.50	749.3	17.6	— 8.0	91	e.	2	1			10			0.079	2.0	snowing	Capt. Sselliwerstow
Ashurada	30.07	763.7	29.97	761.3	49.8	9.9	80	nnw.	13	6			10 kn			blank	blank		
Astrakhan	29.79	756.7	29.72	754.8	35.6	2.0	85	w.	18	8			10			0.098	2.5	h'vy clouds	Capt. Wisganow.
Baku	30.02	762.4	29.97	761.2	47.8	8.8	78	calm	0	0		0	2 s			0.008	0.2		
Barnaul	29.67	753 7	30.24	768.0	— 1.7	—18.7	77	calm	0	0			0			0	0		Meteorological Office.
Bielosersk	28.85	732.9	29.34	745.3	19.8	— 6.8	93	e.	9	4			10 n			0.252	6.4	snowing	
Dorpat	29.49	749.1	29.75	755.6	24.4	— 4.2	81	w.	9	4		0	0			0.157	4.0		Observatory.
Ekaterinburg	28.93	734.9	30.00	761.9	1.9	—16.7	80	calm	0	0		0	0			0	0		Meteorological Obs'y
Elisawetgrad	29.41	747.0	29.87	758.8	38.3	3.5	80	w.	13	6			10 s			0.010	0.4		
Kasan	29.33	744.9	29.61	752.1	19.9	— 6.7	92	se.	7	3			10			0.024	0.6	light snow	Observatory.
Kem	29.52	749.7	29.57	751.0	10.2	— 8.8	94	w.	4	2			10			0	0	h'vy clouds	
Kertch	29.98	761.4	30.00	762.0	46.6	8.1	86	calm	0	0		0	5 k			0	0		Lagorio & Sastyres.
Kieff	29.13	740.0	29.80	756.8	32.0	0.0	92	nw.	11	5			10 n			0.024	0.6	snowing	Observatory.
Koslov	28.95	735 3	29.47	748.5	27.1	— 2.7	75	wnw.	18	8			10 s			0	0		
Igov	29.10	739.0	29.70	754.3	32.9	0.5	89	w.	9	4			9			0.122	3.1		R. I. Ssaweljew, Engin'r.
Libau	29.96	761.0	29.98	761.0	34.3	1.3	65	wnw.	18	8			2			0.024	0.6		Quass.
Lugan	29.53	750.0	29.74	755.3	39.2	4.0	82	wsw.	9	4			10			0.189	4.8		Meteorological Obs'y
Moscow	28.92	734.6	29.42	747.3	22.8	— 5.1	81	wnw.	7	3			10 n			0.091	2.3	light snow	Meteorological Obs'y
Nertschinsk	27.82	706.5	30.41	772.3	— 6.9	—21.6	76	calm	0	0			0			0	0		
Nikolaiev	29.91	759.7	29.98	761.5	46.0	7.8	79	sw.	4	2		0	0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor	29.78	756.4	29.87	758.6	—15.9	—26.6	69	w.	2	1	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.41	772.3	30.55	775.9	23.0	— 5.0	41	n.	2.2	1.0	.....	0	0	.....	.....	.....	.....	.....	Siang.
Petro-Alexandrovsk	29.62	752.3	29.99	761.7	35.1	1.7	80	sw.	1.1	0.5	.....	.....	8	.....	.....	.....	.....	.....	Walter.
Petrozavodsk	29.25	743.0	29.46	748.3	16.7	— 8.5	85	nne.	9	4	.....	.....	10	.....	.....	0.079	2.0	light clouds	Dr. Bergmann.
Pinsk	29.50	749.2	30.02	762.4	31.8	— 0.1	65	nw.	27	12	.....	.....	10 ks	.....	.....	0.016	0.4	.....	
Poti	30.04	763.0	30.07	763.8	46.2	7.9	99	sw.	9	4	.....	.....	10 n	.....	.....	0.028	0.7	raining.	
St. Petersburg	29.56	750.9	29.59	751.5	17.2	— 8.2	82	wnw.	13	6	.....	0	8 s;n	.....	.....	0.287	7.3	.....	Central Physical Obs'y.
Samarkand	27.46	697.5	30.03	762.8	32.4	0.2	98	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	snowing	Dresch.
Semipalatinsk	29.39	746.6	30.11	764.7	14.5	— 9.7	81	se.	9	4	.....	.....	3	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.80	756.9	30.02	762.4	50.2	10.1	72	w.	11	5	.....	5 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	29.19	741.4	29.77	756.1	28.8	— 1.8	60	nw.	29	13	.....	0	5 k	.....	.....	0.102	2.6	light clouds	Carl Hagen.
Tashkend, Laboratory	28.26	717.9	30.00	761.9	35.8	2.1	100	nw.	7	3	.....	.....	10 n	.....	.....	.....	.....	.....	Terch, A. M.
Tiflis	28.54	724.9	29.98	761.6	45.3	7.4	63	nw.	31	14	.....	.....	10	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.27	692.6	29.88	758.9	27.3	— 2.6	69	calm	0	0	.....	0	2 k	.....	.....	.....	.....	.....	Sariono.
Viatka	28.99	736.4	29.65	753.1	22.6	— 5.2	79	se.	4	2	.....	.....	10	.....	.....	0	0	.....	
Vladivostock	30.05	763.3	30.12	765.0	12.4	—10.9	78	nw.	18	8	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.76	755.8	30.20	767.1	32.4	0.2	69	nw.	16	7	.....	0	7 kn	.....	.....	.....	.....	h'vy clouds	Astronomical Obs'y.
Yeniseisk	30.25	768.3	30.59	776.9	—18.2	—27.9	81	nw.	2	1	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.78	731.0	29.29	744.0	22.2	— 5.4	80	wnw.	27.2	12.2	.....	.....	10 n	.....	w.	inap.	inap.	light snow.	Bachmetieff.
Spanish.																			
Barcelona, Met. Obs'y	29.98	761.5	30.21	767.3	58.3	14.6	64	ese.	.....	.....	.....	0	7 kn	.....	.....	0	0	.....	B.J.Elin.
Bilbao, Met. Obs'y	30.37	771.4	30.43	772.9	49.8	9.9	89	se.	1.1	0.5	.....	.....	10	.....	.....	0.496	12.6	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.35	694.6	30.44	773.1	40.5	4.7	74	ne.	3.8	1.7	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	28.03	712.0	30.34	770.7	43.9	6.6	61	ne.	16.3	7.3	.....	.....	9	.....	.....	0.067	1.7	almost cov'd	The Staff.
Murcia, Met. Obs'y	30.10	764.4	30.23	767.8	54.7	12.6	80	nw.	1.3	0.6	.....	5	5	se.	.....	0	0	covered	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.42	747.3	30.34	770.6	49.8	9.9	69	ne.	16.1	7.2	.....	.....	8	.....	.....	0.681	17.3	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.09	764.2	30.15	765.9	65.1	18.4	92	e.	1.1	0.5	.....	0	3 k	.....	ne.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.95	760.6	30.00	762.0	77.5	25.3	85	se.	4.4	2.0	.....	0	7 ks	.....	.....	0	0	cloudy	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.6	30.17	766.2	54.0	12.2	64	e.	11.7	5.3	.....	.....	9	.....	e.	0.026	0.7	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.02	762.6	30.11	764.9	74.8	23.8	75	n.	2.5	1.1	.....	.....	10 kn	.....	se.	0	0	overcast	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.48	748.8	29.52	749.8	2.5	—16.4	100	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	29.41	746.9	29.46	748.2	9.0	—12.8	100	nw.	.....	.....	2	.....	10	.....	.....	0.094	2.4	.....	
Hernosand	29.41	747.1	29.47	748.4	21.9	— 5.6	90	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	29.54	750.2	29.71	754.7	30.6	— 0.8	73	wsw.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Wisby	29.80	756.8	29.85	758.3	33.8	1.0	92	w.	.....	.....	6	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.58	751.4	29.67	753.6	24.8	— 4.0	91	sw.	14.5	6.5	.....	.....	10	.....	.....	0.004	0.1	.....	H.H.Hildebrandesson
Swiss.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.20	767.0	56.5	13.6	75	sw.	2	1.0	.....	.....	10	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.28	769.1	61.7	16.5	.....	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.26	768.5	63.7	17.6	64	wsw.	.....	.....	1	.....	1 k	.....	se.	0	0	.....	F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.26	768.6	30.35	770.6	32.5	0.3	54	nw.	1	0.4	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.68	753.9	30.39	770.9	11.2	—11.6	80	ne.	5	2.2	.....	.....	10 n	.....	.....	0.11	2.8	light snow.	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.89	632.2	29.99	761.7	49.3	9.6	93	sw.	12	5.4	.....	.....	10 n	.....	.....	0.11	2.8	light rain.	J. B. Turton.
Assinnaboine, Ft., Montana	27.32	693.9	30.36	771.1	2.0	—10.7	75	ne.	2	0.9	.....	.....	10 n	.....	ne.	0.05	1.3	light snow.	F. Newman.
Atlanta, Georgia	29.09	738.9	30.31	769.9	44.6	7.0	52	se.	8	3.6	.....	0	9 k	.....	nw.	0	0	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.32	770.1	30.33	770.4	30.0	— 1.1	77	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	B.A.Blundon.
Augusta, Georgia	30.14	765.5	30.34	770.6	39	3.9	82	w.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	W.J.Evans.
Baltimore, Maryland	30.31	769.9	30.36	771.1	32.5	0.3	74	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	Geo. W Felger.
Barnegat City, New Jersey	30.31	769.9	30.33	770.4	31.0	— 0.6	88	nw.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	F.L.Johnson.
Bennett, Fort, Dakota	28.77	730.7	30.50	774.7	— 6.0	—21.1	100	ne.	5	2.2	.....	.....	10 n	.....	ne.	0.01	1.0	light snow.	A. Pritchard.
Benton, Fort, Montana	27.35	694.7	30.35	770.9	— 1.0	—18.3	72	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.56	725.4	30.54	775.7	— 7.5	—21.9	100	ne.	6	2.7	.....	.....	10 n	.....	nw.	0.05	1.3	light snow.	B. O. Lenoir.
Block Island, Rhode Island	30.31	769.9	30.34	770.6	32.0	0.0	83	nw.	5	2.2	.....	6 cs	0	nw.	.....	0	0	fair	J. T. Elker.
Boise City, Idaho	27.07	687.6	30.03	762.7	22	— 5.6	87	n.	5	2.2	.....	0	5 s	.....	.....	0.05	1.3	fair	James Kenealy.
Boston, Massachusetts	30.15	765.8	30.31	769.9	26.0	— 3.3	82	sw.	6	2.7	.....	6 cs	0	sw.	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.03	762.7	66.0	18.9	93	se.	13	5.8	.....	0	0	.....	.....	0	0	clear	John McGlone.
Buffalo, New York	29.56	750.8	30.35	770.9	24	— 4.4	74	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.33	719.6	30.54	775.7	— 7.9	—22.2	100	ne.	6	2.7	.....	6 c	0	.....	.....	0.03	0.8	fair	A. Schneider.
Cairo, Illinois	29.70	754.4	30.12	765.0	51.7	10.9	89	s.	4	1.8	.....	.....	10 ks	.....	sw.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.57	751.1	29.77	756.1	38.7	3.7	98	se.	4	1.8	.....	.....	10 n	.....	.....	0.12	3.0	light rain	J.H.Young.
Cape Henry, Virginia	30.31	769.9	30.33	770.4	34.0	1.1	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. K. Alderson
Cape May, New Jersey	30.33	770.4	30.36	771.1	36.0	2.2	79	e.	7	3.1	.....	0	hz.	.....	.....	0	0	clear	W.E.Smith.
Cape Mendocino, California	29.11	739.4	29.81	757.2	47	8.3	93	ne.	.....	.....	1	0	0	.....	.....	0.03	0.8	clear	A. P. Leavitt.
Cedar Keys, Florida	30.25	768.3	30.27	768.8	55.0	12.8	70	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	46.5	8.1	83	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.42	747.3	30.31	769.9	38.0	3.3	85	sw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.42	747.3	30.28	769.1	41.5	5.3	73	e.	7	3.1	.....	0	8 k	.....	sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.90	607.0	30.17	766.3	38.2	3.4	52	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.47	748.5	30.22	767.6	30.2	— 1.0	75	ne.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.31	769.9	30.33	770.4	35.0	1.7	94	e.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	O. F. Dickens
Cincinnati, Ohio	29.50	749.3	30.19	766.8	36.1	2.3	89	calm	0	0	.....	3 c	2 s	w.	.....	0	0	fair	L.Dunne.
Cleveland, Ohio	29.44	747.8	30.23	767.8	27.0	— 2.8	88	sw.	7	3.1	.....	0	1 s	.....	sw.	0	0	clear	W.Line.
Columbus, Ohio	29.29	744.0	30.19	766.8	33.3	0.7	75	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	F.T. Williams
Concho, Fort, Texas	28.09	713.5	30.11	764.8	50.5	10.3	96	w.	2	0.9	.....	0	8 k	.....	w.	0	0	cloudy	C. E. King.
Custer, Fort, Montana	27.00	685.8	30.36	771.1	0	—17.8	72	n.	4	1.8	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	W.J.Daily.
Davenport, Iowa	29.46	748.3	30.16	766.1	30.3	— 0.9	76	e.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	30.16	766.1	44.2	6.8	68	se.	1	0.4	.....	6 cs	0	.....	.....	0	0	fair	J. Williams.
Dayton, Washington T'y	28.04	712.2	29.86	758.4	39.5	4.2	92	sw.	4	1.8	.....	.....	10 n	.....	.....	0.38	9.7	light rain	H.S.Blandford.
Deadwood, Dakota	25.36	644.1	30.28	769.1	4.0	—15.6	83	calm	0	0	.....	.....	10 n	.....	.....	inap.	inap.	light snow.	G.Kingsbury.
Delaware Breakwater, Del.	30.36	771.1	30.38	771.6	32.6	0.3	87	ne.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	G.A.Martin.
Denver, Colorado	24.02	625.3	30.14	765.5	33.0	0.0	72	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	F. M. Neal.
Des Moines, Iowa	29.21	741.9	30.18	766.6	27	— 2.8	64	ne.	8	3.6	.....	7 cs	0	w.	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.53	750.0	30.28	769.1	29.0	— 1.7	77	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	N.B.Conger.
Dodge City, Kansas	27.34	694.4	30.08	764.0	36.3	2.4	61	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J.E.Lanouette.
Dubuque, Iowa	29.44	747.8	30.20	767.1	28.2	— 2.1	70	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.65	753.1	30.46	773.7	— 1.0	—18.3	83	nw.	14	6.3	.....	0	8 s	.....	w.	0.09	2.3	cloudy	E.R.Brace.
Eastport, Maine	30.15	765.8	30.22	767.6	20.0	— 6.7	70	w.	5	2.2	.....	0	0	.....	.....	0.11	2.8	clear	D. C. Murphy.
Elliott, Fort, Texas	27.15	689.6	30.05	763.3	39.2	4.0	65	sw.	4	1.8	.....	0	2 s	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas *	26.29	667.8	30.17	766.3	49.0	9.4	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.52	749.8	30.29	769.4	29.0	— 1.7	88	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.72	754.9	30.44	773.2	1.6	—16.9	82	n.	10	4.5	.....	4 cs	0	n.	.....	0.06	1.5	fair	L.M.Pindell.
Fort Smith, Arkansas	29.52	749.8	30.02	762.5	50.0	10.0	93	e.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Campbell.
Galveston, Texas	30.06	763.5	30.10	764.5	63.8	17.7	100	s.	4	1.8	.....	.....	10 s	.....	s.	0.03	0.8	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.55	750.6	30.25	768.6	19.0	— 7.2	84	ne.	11	4.9	.....	.....	10 s	.....	n.	0	0	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.18	639.6	30.04	763.0	49.7	9.8	89	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	Chas. A. Read.
Hatteras, North Carolina	30.29	769.4	30.30	769.6	44.0	6.7	93	ne.	3	1.3	.....	hz.	0	.....	.....	0	0	clear	R. M. Crawford.

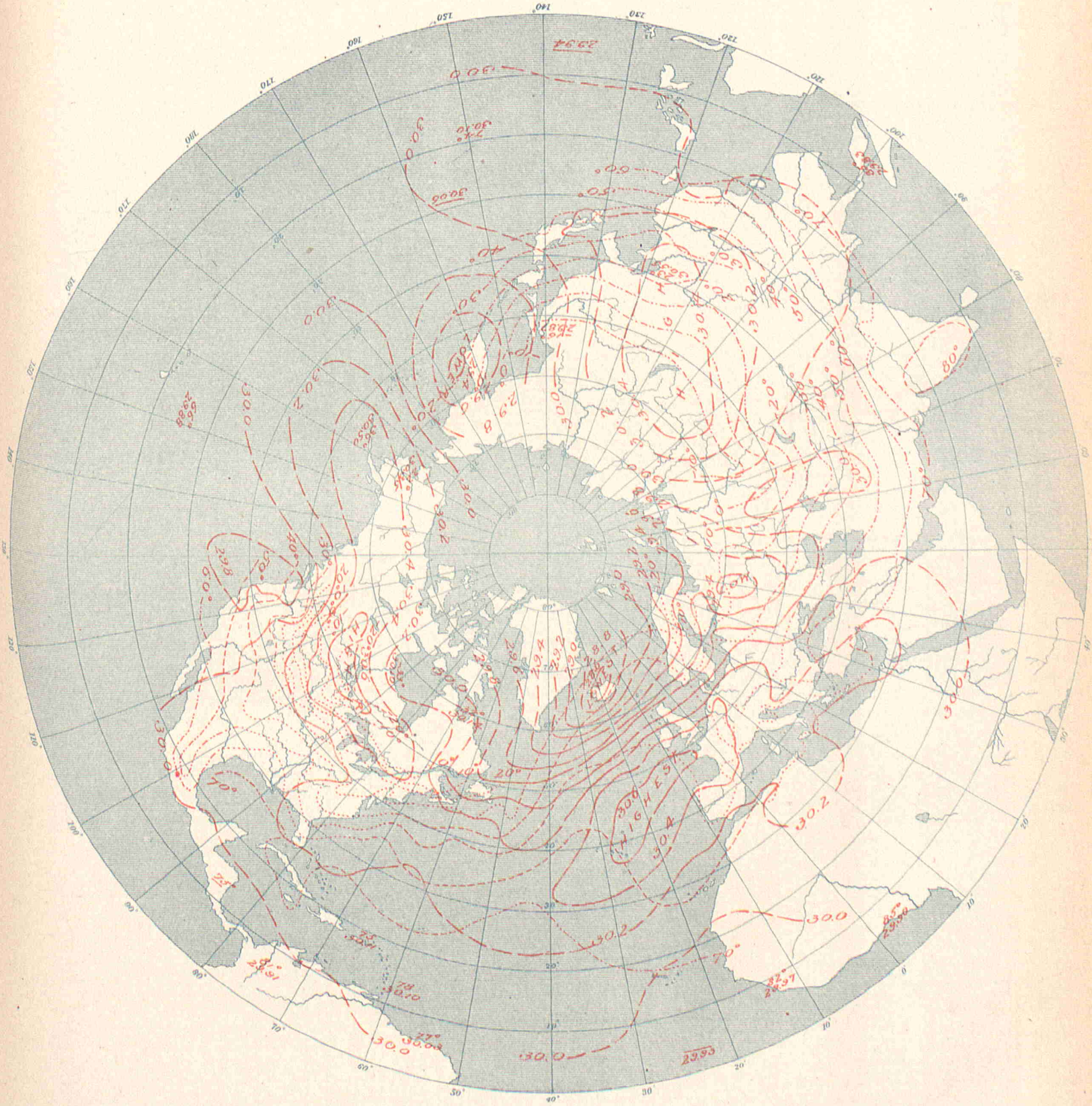
* Observation taken thirty-eight minutes late.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.82	655.8	30.17	766.3	2	—16.7	75	calm	0	0		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	28.90	734.0	30.42	772.7	— 2.3	—19.1	79	n.	13	5.8			10 n			0.02	0.5	light snow	S. W. Glenn.
Indianapolis, Indiana	29.27	743.4	30.12	765.0	40.2	4.6	67	se.	2	0.9			10 s		se.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.02	762.5	30.05	763.3	64.9	18.3	96	s.	8	3.6		0	8 s		s.	0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.22	767.6	30.27	768.8	45.5	7 5	96	calm	0	0		0	fg.			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.40	746.7	30.10	764.5	31.2	— 0.4	80	ne.	3	1.3		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.16	766.1	30.18	766.6	67.3	19.6	92	ne.	6	2.7		0	0			0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.32	770.1	30.34	770.6	35.5	1.9	85	calm	0	0		0	0			0	0	clear	Wesley Blake.
Knoxville, Tennessee	29.22	742.2	30.30	769.6	33	0.6	90	e.	3	1.3		5 k	0	sw.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.44	747.8	30.28	769.1	21.2	— 6.0	84	ne.	7	3.1			10 s			0	0	cloudy	S. C. Emery
Leavenworth, Kansas	29.13	739.9	30.08	764.0	35	1.7	79	n	1	0.4		2 c	fg.			0	0	clear	T. S. Outram.
Lewiston, Idaho	28.97	735 8	29.84	757.9	37.0	2.8	82	calm	0	0		7 k	0			0.10	2.5	fair	C. E. Butler.
Little Rock, Arkansas	29.72	754.9	30.05	763.3	55.0	12.8	93	calm	0	0			fg.			0	0	dense fog	W. U. Simons.
Los Angeles, California	29.44	747.8	29.84	757.9	58.2	14.6	94	e.	8	3.6			10 n		se.	0.53	13.5	light rain	T. S. Collins.
Louisville, Kentucky	29.55	750.6	30.14	765.5	41.2	5.1	73	calm	0	0			10 s		sw.	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.60	751.8	30.32	770.1	32.0	0.0	78	calm	0	0		0	1s;fg			0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.72	754.9	30.42	772.7	11.0	—11.7	85	nw.	1	0.4			10 s			0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.31	769.9	30.32	770.1	43.1	6.2	96	n.	5	2.2		hz.	0			inap.	inap.	clear	William Daly.
Maginnis, Fort, Montana	25.54	648.7	30.29	769.4	— 4.3	—20.2	36	n.	2	0.9		0	0			0.05	1.3	clear	F. Burke.
Marquette, Michigan	29.70	754.4	30.48	774.2	3.6	—15.8	83	ne.	4	1.8			10 n			0.02	0.5	light snow	J. Gilligan.
Memphis, Tennessee	29.72	754.9	30.08	764.0	52.5	11.4	90	calm	0	0			fg.			inap.	inap.	dense fog	D. T. Flannery
Milwaukee, Wisconsin	29.48	748.8	30.28	769.1	25.9	— 3.4	87	ne.	13	5.8			10 s		ne.	0	0	cloudy	S. W. Rhode.
Mobile, Alabama	30.16	766.1	30.20	767.1	59	15.0	96	calm	0	0			fg.			0	0	dense fog	H. U. Jones.
Montgomery, Alabama	30.01	762.2	30.25	768.3	49	9.4	63	e.	1	0.4		3 cs	6 s	s.		0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.43	747.5	30.53	775.4	—20	—28.9	100	n.	15	6.7		0	0			0.13	3.3	clear	H. Bessant.
Mt. Washington, N. H.	23.48	596.4	30.10	764 5	— 4.5	—20.3	84	nw.	68	30.4			fg.		nw.	0.11	2.8	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.55	750.6	30.16	766.1	45.5	7.5	72	e.	3	1.3		5 ck	4 ks	w.	sw.	inap.	inap.	cloudy	L. N. Jesunofsky
New Haven, Connecticut	30.21	767.3	30.33	770.4	23	— 5.0	94	calm	0	0		4 cs	sk.	sw.		0	0	dense smoke	J. H. Sherman.
New London, Connecticut	30.28	769.1	30.32	770.1	26.0	— 3.3	88	w.	1	0.4		2 cs	0	w.		0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.11	764.8	30.17	766.3	63.3	17.4	93	s.	2	0.9			fg.			0	0	dense fog	M. Herman.
New York, New York	30.18	766.6	30.37	771.4	28.0	— 2.2	64	w.	3	1.3		0	6 s			0	0	fair	H. J. Penrod.
Norfolk, Virginia	30.27	768.8	30.30	769.6	39.0	3.9	82	calm	0	0		0	hz			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.10	688.3	30.20	767.1	19.6	— 6.9	76	ne.	11	4.9			10 s			0	0	cloudy	J. J. Mc Lean.
Olympia, Washington Ter	29.75	755.6	29.79	756.7	36.5	2.5	94	calm	0	0			10 n			0.10	2.5	light rain	J. Dascomb
Omaha, Nebraska	28 94	735.1	30.21	767.3	29.4	— 1.4	77	ne.	12	5.4			10 s			0	0	cloudy	A. Pollak
Oswego, New York	30.00	762.0	30.35	770.9	19.0	— 7.2	76	ne.	11	4.9			10 s		w.	0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.49	749.0	30.07	763.8	63.5	17.5	90	s.	14	6.3			10 ks		sw.	0	0	cloudy	P. T. Jenkins.
Pensacola, Florida	30.18	766.6	30.22	767.6	59.1	15.1	100	e.	4	1.8			fg.			0	0	dense fog	M. McGauran.
Philadelphia, Pa	30.23	767.8	30.31	770.6	36	2.2	89	sw.	1	0.4		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.64	448.0	30.36	771.1	10.0	—12.2	73	w	42	18.8		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.39	746.5	30.25	768.3	27.2	— 2.7	88	ne.	3	1.3		0	fg.			0	0	clear	O. D. Stewart.
Poplar River, Montana					—10.3	—23.5	88	e.			2		10 s			0.27	6.9	cloudy	G. A. Carden.
Port Huron, Michigan	29.55	750.6	30.28	769.1	23.0	— 5.0	88	ne.	8	3.6			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	30.23	767 8	30.28	769.1	23.0	— 5.0	80	s.	1	0.4		0	sk.			inap.	inap.	clear	W. W. Eichelberger.
Portland, Oregon	29.69	754.1	29.76	755.9	36.5	2.5	91	nw.	1	0.4			10 n			0.51	13.0	light rain	M. L. Hearne.
Prescott, Arizona	24.61	625.1	29.97	761.2	44.0	6.7	93	calm	0	0			10 n			1.06	26.9	light rain	N. D. Lane.
Provincetown, Mass	30.26	768.6	30.29	769.4	30.2	— 1.0	79	w.	9	4.0		5 c	0	w.		0	0	fair	O. N. Kitchel.
Red Bluff, California	29.44	747 8	29.82	757.4	41	5.0	100	nw.	4	1.8			0			0.18	4.6	clear	J. R. Williams.
Rio Grande City, Texas	29.80	756.9	30.05	763.3	62.5	16.9	96	se.	8	3.6		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.63	752.6	30.34	770.6	23	— 5.0	73	nw.	4	1.8			10s;hz			inap.	inap.	cloudy	E. W. McGann.
Roseburg, Oregon	29.22	742 2	29.79	756.7	42.9	6.1	89	e.	1	0.4		0	7 s		s.	0.01	0.3	fair	J. J. Naury.
Sacramento, California	29.70	754.4	29.78	756.4	46.0	7.8	93	nw	9	4.0			8 s		sw.	0.01	0.3	cloudy	J. A. Barwick
St. Louis, Missouri	29.45	748.0	30.11	764.8	47.0	8.3	76	se.	1	0.4		8 cs	sk.			0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.31	769.9	30.35	770.9	22	— 5.6	100	s.			4		10 s		s.	0	0	cloudy	Fred. H. Clarke
St. Paul, Minnesota	29.41	747.0	30.34	770.6	11.2	—11.6	75	n.	5	2.2			10 s			0.01	0.3	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.65	753.1	30.62	777.7	—14	—25.6	78	nw.	2	0.9			10 ks			inap.	inap.	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.52	648.2	30.08	764.0	35.5	1.9	64	se.	1	0.4		2 k	0	sw		inap.	inap.	clear	J. Craig.
San Diego, California	29.76	755.9	29.83	757.7	59.0	15.0	95	s.	5	2.2			10 n		s.	1.89	48.0	light rain	F. R. Day.
Sandusky, Ohio	29.50	749.3	30.22	767.6	34	1.1	78	e.	4	1.8		0	3 s		e.	0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.32	770.1	30.36	771.1	30.7	— 0.7	57	w.	7	3.1		4 cs	0			0	0	fair	V. P. Chappel.
Sanford, Florida	30.17	766.3	30.22	767.6	55.0	12.8	93	w.	5	2.2		3 k	0	sw.		0	0	clear	J. B. Marbury
San Francisco, California	29.71	754 6	29.78	756.4	52.0	11.1	92	se.	9	4.0			10 n		s.	0.14	3.6	heavy rain	N. Gorom.
Savannah, Georgia	30.19	766.8	30.28	769.1	45	7.2	93	nw.	4	1.8		0	0			0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.46	672.1	30.31	769.9	— 5	—20.6	83	ne.	2	0.9		0	0			0.02	0.5	clear	A. L. Mathews.
Shreveport, Louisiana	29.82	757.4	30.00	762.0	62.6	17.0	88	s.	4	1.8			10 s		s.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	30.33	770.4	30.40	772.1	23.5	— 4.7	80	ne.	5	2.2		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	30.25	768.3	30.29	769.4	45.3	7.4	95	ne.	9	4.0		0	1 ks			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.76	705.1	29.89	759.2	31.0	— 0.6	100	nw.	1	0.4			10 n			0.10	2.5	heavy snow	D. Moore.
Springfield, Illinois	29.39	746.5	30.12	765.0	38.0	3.3	82	ne.	1	0.4		0	4 s		w.	0	0	fair	T. B. Jennings.
Stockton, Fort, Texas	26.97	685.0	30.10	764.5	45.0	7.2	86	calm	0	0		0	4 s			0	0	fair	J. W. Byram.
Tatoosh Id., Wash. Ter	29.64	752.8			34.2	1.2	95	calm	0	0			10 n			0.29	7.4	light rain	R. Connor.
Thomas, Camp, Arizona	27.22	691.4	30.06	763.5	51.5	10.8	96	calm			0		10 s			0	0	cloudy	R. C. Lord.
Toledo, Ohio	29.51	749.5	30.25	768.3	26	— 3.3	88	ne.	10	4.5			10 s		ne.	0	0	cloudy	A. Buell.
Unalashka, Alaska	30.48	774.2	30.50	774.7	36	2.2	69	s.	26	11.6			9 s			0	0	cloudy	Samuel Applegate
Vicksburg, Mississippi	29.87	758.7	30.14	765.5	62	16.7	87	se.	8	3.6			10 s		s.	0	0	cloudy	C. Dill.
Washington, D. C.	30.24	768.1	30.36	771.1	30.0	— 1.1	88	ne.	1	0.4		0	fg.			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.93	658.6	30.05	763.3	29.5	— 1.4	60	nw.	5	2.2		0	9 s			0	0	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	30.26	768.6	30.32	770.1	42.2	5.7	82	e.	2	0.9		0	0			0	0	clear	L. H. Albrecht.
Yankton, Dakota	28 91	734.3	30.33	770.4	15.8	— 9.0	85	ne.	12	5.4			10 s			inap.	inap.	cloudy	E. H. Thompson.
Yuma, Arizona	29.71	754.6	29.86	758.4	58.0	14.4	96	calm	0	0			10 n		sw.	0.32	8.1	light rain	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.31	744.5	29.33	745.0	29.4	— 1.4	74	sw.	12	5.4		0	7k;n		sw.	0	0	fair	George Cheruick.
Bluefields, Nicaragua, C. A.					75	23.9		n.			3	4 k	4 n	ne.	n.	0.28	7.1	cloudy	W. H. Jackson.
Bogota, U. S. C.	21.98	558.4			51.8	11.0	80	calm	0	0		0	1 k		s.	0	0		Joaquin Gomez.
Chimo, Fort, Ungava	29.98	761.5	30.14	765.5	—32	—35.6	100	sw.	17	7.6		8 c	0	sw.		0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.			30.06	763.5	68.0	20.0	80	n.	2	0.9		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.03	762.7	77	25.0	82	e.			1		8 ks		e.	0.050	1.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.35	745.5	29.91	759 7	81	27.2	85	calm			0	0	6 k		s.	0	0	fair	Francisco J. Olsnero.
Rivas, Nicaragua, C. A.					75	23.9	90	ne.			1	0	8 ks		ne.	0.01	0.3	cloudy	Earl Flint.
York Factory, B. A.	30.03	762.7	30.10	764.5	—33.0	—36.1		nw.	14	6.3		1 c	2 s	nw.	nw.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.89	759.3	29.91	759.6	79.2	26.2	82	n.	12.1	5.4		0	4 k		n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.85	758.3	29.92	760.0	75.6	24.2	88	nw.			4	0	3 ks		n.	0	0	clear	Antonio Fabre.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
S. S. Alvo, N. 26° 55′ W. 73° 50′ *	30.23	767.8	70	21.1		ne.			3		5		ne.	0	0	short	n.	fair.
S. S. Alleghany, Vineyard sound, Mass			32	0.0		n.			2		10		se.	0	0			overcast.
S. S. Ailsa, N. 18° 38′, W. 74° 28′			73.5	23.1	93	ne.			2		2		ne.	0	0	sm'h		fine.
S. S. Arizona, N. 49° 21′, W. 36° 59′	30.06	763.5	57	13.9		var.			2		10		w.	12 h'r	12 h'r	high	cf'd	overcast.
Schr. Arthur Burton, N. 29° 00′, W. 79° 45′ †	30.27	768.8				n.			1		5			0	0	mod.	ne.	fine.
S. S. Alps, Mayaguez, Porto Rico *†	30.10	764.5	80	26.7		e.			1		2		e.	0	0	short		
S. S. Adriatic, off Saltees Lt, Ireland			52	11.1		wnw.			3		2		w.			light	w.	clear
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I †	30.10	764.5	68	20.0		nne.			1		0			0	0			clear.
S. S. Anchoria, N. 40° 23′, W. 67° 29′ †	30.38	771.6				nw.			3		0			0	0	sm'h		fine.
S. S. Circassian, N. 54° 30′ W. 15° 50′	30.24	768.1	50	10.0	93	sw.			6		8		sw.			5	wsw.	cloudy.
S. S. Caracas, Curacoa, W.I *†	30.01	762.2	78	25.6	82	ene.			3		2		ene.	0	0	sm'h		fine.
S. S. Canada, (Fr) N. 49° 42′, W. 9° 05′			44.6	7		n.			6	c		n.		0	0	sm'h	n.	clear.
S. S. Chalmette, Algiers, La *†	30.18	766.6	62	16.7		se			1					0	0			foggy.
S. E. J. Spicer, N. 42° 52′, W. 24° 50′	30.73	780.5	54	12.2	93	ne.			3		10		ne.	0	0	mod.	nne.	cloudy.
S. S. England, N. 43° 17′, W. 54° 09′	30.26	768.6				wnw			5		5 k		wnw.	0	0	mod.	w.	fair.
S. S. France, Havre, France						ne.			2		2		ne.	0	0	sm'h	ne.	clear.
S. S. Grecian, N. 52° 20′, W. 5° 44′	30.42	772.7	47	8.3	92	w			3		0			0	0	sm'h		clear.
Bg. George, N. 33° 32′. W. 72° 50′ *†	30.31	769.9				e.			1		8		sw.	0	0	sm'h		threatening.
S. S. Hermann, N. 47° 18′, W. 34° 29′	30.26	768.6	57.2	14.0	89	sw.			6		10		sw.	3 h'r	3 h'r	r'gh	sw.	cloudy.
S. S. Holland, N. 43° 24′, W. 57° 24′			30	— 1.1		wsw.			4		2		wsw.	0	0	cross	var.	clear.
S. S. Iowa, off Ballycott n, Ireland			51	10.6		wsw.			4		8		wsw.	0	0	sm'h	wsw.	cloudy.
Bg. L. & W. Armstrong, N. 20° 35′, W. 67° 10′ *†	30.18	766.6				ne.			3		4		ne.	0	0	long	nne.	fine.
S. S. Main, N. 49° 41′ W. 15° 20′	30.61	777.5	59.0	15.0		wnw.			2		3		wnw.	0	0	light	wnw.	fair.
S. S. Mentmore, N. 51° 14′, W. 27° 04′ *†	30.24	768.1				sw.			9		10			0	0	h'vy		cloudy.
S. S. Marengo, N. 50° 02′, W. 11° 00′ *†	30.63	778.0	56	13.3		wnw.			4		4		calm	0	0	sm'h		fair.
Schr. Maria Matilda, N. 24° 54′, W. 79° 01′					51	e.			4		4		e.	0	0		e.	fine.
S. S. Neckar, N. 49° 15′, W. 15° 00′	30.57	776.5	54.0	12.2	67	nw.			3–6		2		nw.	rain	rain	mod	nnw.	clear.
S. S. Orinoco, Sandy Hook, N J			32	0.0		wnw.			2		7			0	0			hazy.
S. S. Oregon, (Br) N. 43° 27′, W. 64° 57′ *	30.21	767.3	34	1.1		nw.			3		9		nw.	0	0	long	se.	cloudy.
S. S. Ohio, (Am) N. 42° 37′, W. 51° 53′ *†	30.22	767.6	34	1.1	90	nnw.			1		10		nw.	0	0	cross	var.	cloudy.
S. S Pennsylvania, Mersey River, Eng			45	7.2	84	ese.			4		10		se.	1 h'r	1 h'r			drizzling.
S. S. Polynesian, N. 43° 48′, W. 60° 47′			37	2.8		wsw.			3		10		sw.	0	0	sm'h	sw.	cloudy.
S. S. Rhaetia, N. 45° 03′, W. 49° 18′	30.17	766.2	30	— 1.1	89	nnw.			1–2		10			0	0	long	s.	overcast.
S. S. Rhein, N. 45° 14′, W. 48° 13′						nw.			1		6			0	0	mod.		fair.
S. S. Rhynland, Antwerp, Belgium	30.42	772.7			74	calm			0		2			0	0			clear.
S. S. Republic, N. 50° 05′, W. 28° 50′ *†	30.26	768.6	53	11.7		ssw.			6		7		sw.	0	0	r'gh	sw.	misty.
S. S. Scandinavian, N. 52° 54′, W. 23° 59′	30.16	766.1	51	10.6		sw.			6		9		sw.	0	0	high	sw.	showery.
S. S. Switzerland, N. 50° 27′, W. 0° 45′ *†	30.52	775.2				w.			2		5		w.	0	0	sm'h		threatening.
S. S. Samaria, N. 50° 10′, W. 25° 15′	30.47	773.9	52	11.1		sw.			5		7		wsw.	4 h'r	4 h'r	h'vy	wsw.	fair.
S. S. Salier, N. 50° 13′, W. 1° 43′						nw.			4		2		nw.			sm'h	nw.	clear.
S. Salisbury, N. 18° 08′, W. 58° 09′	30.09	764.2	75.0	23.9	76	nne.			3-4	3 ck		n.	nne.	0	0	long		clear
Bk. Tuck Sing, N. 23° 17′, W. 82° 07′ *†	30.14	765.5				ene.			3		2		ene.	0	0	sm'h		clear.
S. S. Zeeland, N. 41° 47′, W. 62° 38′ *†	30.24	768.1	34	1.1		w			4		1		w.	0	0	light	sw.	clear.
S. S. Belgenland, N. 40° 30′, W. 67° 09′ *†	30.38	771.6	38	3 3	90	n.			2				nw.	0	0	sm'h		clear.
S. S. State of Georgia, N. 43° 05′ W. 56° 33′ †	30.22	767.6	35	1.7		w.			4		8		w.	0	0	long	var.	cloudy.
Schr Adda Doane, Kingston, Jamaica, W.I †	30.06	763.5				calm			0		2		ne.	0	0			clear.
Bg, Alcira. Maracaybo, Venezuela*	30.03	762.7	79	26.1		nne.			1		2		ne.	0	0			clear.
S. S. Britannic, N. 41° 40′ W. 65° 30′			38	3.3		wsw.			4		3		nw.	0	0	mod.	w w.	blue sky.
Bk. Chas. Stewart, N. 36° 00′, W. 14° 00′ *†	30.26	768.6				ne.			6		10		n; e.	snow	snow	r'gh	nw.	cloudy.
Bk. Cato, N. 39° 09′, W. 68° 32′ †	30.31	769.9	48	8.9	81	nnw.			2		1		nne.	0	0	sm'h	w.	hazy.
S. S Donau, N. 42° 00′, W. 62° 22′	30.22	767.6	39.2	4.0		wnw.			4		4?		wnw.	0	0	sm'h	w.	cloudy?
S. S. Gellert, N. 40° 23′, W. 68° 22′	30.31	769.9	43	6.1	83	nw.			1		0			0	0			clear
S. S. Gallia, N. 43° 13′, W. 54° 58′	30.20	767.1	37	2.8		w.			5		2			0	0	mod.	w.	clear.
S. S. Labrador. N. 45° 34′, W. 51° 52′ *†	30.16	766.0	37.4	3		w.			2		2		nw.	0	0	sm'h	nw.	clear.
S. S. Habsburg, N. 48° 35′, W. 23° 15′						sw.			6		10		sw.	2 h'r	2 h'r	r'gh	nw.w	squally.
S. S. New York, N. 29° 37′ W. 80° 30′ *†	30.20	767.1	62	16.7		ne.			2		2		ne.	0	0	sm'h		clear.
S. Parker M. Whitmore, N. 33° 40′, W. 38° 25′ *†	30.45	773.4	67	19.4		ese.			6		3		ese	0	0	high	ese.	fair.
S. S. Rialto, N. 48° 06′, W. 15° 30′ †	30.62	777.7	53	11.7		nne.			2				ne.	0	0	sm'h	ne.	fine.
Bk. Saga, N. 37° 01′, W. 76° 14′ †	30.28	769.1	48	8.9					0–1		0			0	0	mod.	ene.	clear.
S. S. Virginian, N. 45° 12′ W. 47° 50′			30	— 1.1		nne.			3				nnw.	0	0	sm'h		
S. S. Wyoming, N. 44° 36′, W. 50° 25′	30.15	765.8	32	0.0		wsw.			3		9		n.	0	0	long	sw.	cloudy.
S. S. W. A. Scholten, N. 43° 54′ W. 57° 06′			30.2	— 1.0	90	wsw.			5		3		nw.	3 h'r	3 h'r	5	wnw.	squally.
S. S. Westphalia, N. 43° 00′, W. 53° 49′			40	4.4	82	ene.			1		9		n.	0	0	long	nw.	covered.
S. S. St. Laurent, N. 45° 00′, W. 44° 30′						n.			3		10		s.	3 h'r	3 h'r	r'gh	s.	misty.
S. S. Crescent City, N. 17° 33′, W. 75° 05′	30.08	764.0	72	22.2		ese.			1								se.	cloudy.
U. S. Navy Yard, Portsmouth, N.H*	30.21	767.3	23	— 5.0	86	wnw.	2	0.9			0			0	0			clear.
U. S. S. Alliance, Porto Plata, San Domingo, W. I	30.11	764.8	72	22.2	85	se.			3		8		se.	0	0	mod		fair.
U. S. S. Kearsarge, Civita Vecchia, Italy	30.24	768.1	58	14.4	82	se.			1		8							cloudy.
U. S. S. Lancaster, N. 41° 31′, E. 12° 21′			57	13.9	94	s.			2		5			0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.30	769.6	28	— 2.2	100	w.			1		2					sm'h		fair.
U. S. S. Quinnebaug, Leghorn, Italy	30.16	766.1	58	14.4	82	ssw.			2		8		w.			sm'h		fair.
U. S. S. Swatara, Port au Prince, Hayti, W.I	30.05	763.3	72	22.2	76	e.			1		0			0	0	sm'h		clear.
U. S. S. Tennessee, N. 23° 10′, W. 86° 23′	30.15	765.8	75	23.9	81	ne.	11	4.9			2		ne.	0	0	sl't	ne.	fair.
U. S. S. Trenton, N. 41° 36′, E. 8° 40′	30.24	768.1	62	16.7	72	ssw.			1		8		ssw.			sm'h		fair.
U. S. S. Vandalia, off Curacoa, W. I	29.98	761.5	76	24.4	86	ene.			4		0							clear.
H. M. S. Alexandra, Malta, Mediterranean	30.26	768.6	67	19.4	74	ssw.			1		0							blue sky.
H. M. S. Alecto, N. 10° 35′, W. 16° 49′	29.83	757.7	76	24.4		wnw.			2		1					2	nw.	blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.18	766.6	60	15.6	76	n.			3		4		nnw.					d. clouds.
H. M. S. Himalayn, N. 46° 10′, W. 7° 46′			51	10.6	86	ene.			4		7		ene.			4	nne.	d. clouds.
H. M. S. Monarch, N. 36° 04′, E. 15° 22′	30.19	766.8	60	15.6	65	ssw.			2		0					1	ssw.	blue sky.
H. M. S. Minotaur, Cagliari, Sardinia	30.26	768.6	54.5	12.5	87	calm			0		0							blue sky.
H. P. M. S. Douro, Ajuda, W. Africa	29.90	759.4	85.1	29.5	89	se.			2					0	0	1	sw.	
S. S. Lord Clive, N. 48° 56′, W. 33° 10′						ssw.			6		10			sh'rs	sh'rs	high	wsw.	rainy.
S. S. Nova Scotian, off Mine Head, Ireland	30.51	774.9	48	8.9		wsw.			3		10		sw.	0	0	sm'h		cloudy.
S. S. Prussian, Boston, Mass	30.28	769.1	27	— 2.8		calm			0		3			0	0			hazy.
S. S. Dorian, N. 40° 30′, W. 65° 30′	30.34	770.6	39	3.9		wnw.			2		4		n.	0	0	long	ne.	fine.
S. S. Carroll, N. 43° 10′, W. 65° 25′ *†	30.30	769.6	34	1.1		nw.			2		9		nw.	0	0	long	w.	cloudy.
S. S. Llandaff City, N. 40° 29′, W. 72° 13′ *†	30.35	770.9	40	4.4		w.			3		2			0	0	sm'h		clear.
S. S Bothnia, N. 42° 47′, W. 48° 28′	30.11	764.8	41	5.0	100	nne.			4		10			8 h'r	8 h'r	con.	sse.	misty.
S. S. Hevelius, N. 51° 00′, W. 7° 00′ *†	30.54	775.7	48	8.9		w.			6		7		wsw.	0	0			cloudy.
S. S. Rosse, N. 47° 00′, W. 80 28			49.5	9.7	61	e.			3		5?		e.	0	0	mod.	nne.	clear?
S S. Archimede, (It.) Palermo, Sicily †	30.27	768.8	52	11.1		ne.			2		4		ne.	0	0			clear.
S. S. Dominion, N. 50° 23′, W 19° 40′ *†	30.41	772.4	54	12.2	100	wsw.			6		10		w.			mod.	w.	cloudy.
S. S. Erin, N. 51° 16′, E. 1° 28′ *	30.44	773.2	48	8.9		wnw.			5		0			0	0	sm'h		clear.
S. S. Greece, N. 48° 36′, W. 29° 11′ †	30.47	773.9	55	12.8		ssw.			5		6		sw.	0	0	mod.	ssw.	fair.
S. S. Leipzig. N. 44° 59′, W. 8° 58′ *	30.56	776.2	53.0	11.7	93	ne.			4		6		ne.	8 h'r	8 h'r	rg'h	ne.	cloudy
S. S. City of Augusta, N. 37° 23′ W. 74° 40′						wsw.			2		3?		w.	0	0	sm'h		cloudy.?
S. S. Muriel, N. 34° 30′ W. 71° 15′	30.32	770.1	61	16.1		e.			2		0			0	0	long	ene.	clear.
S. S. Waesland, N. 49° 27′, W. 26° 35′	30.42	772.7	55	12.8		ssw.			6		6		w.	0	0	r'gh	w.	clearing.
S. S. Westernland, N 45° 52′, W. 46° 09′	30.10	764.5	37	2.8	90	wnw.			2		10		nw.	4 h'r	4 h'r	r'gh	s.	dull.
S. S. Zaandam, New York, N. Y			48.9?	9.4?	80	nw.			3				nw.	0	0			fair.
S. S. State of Nebraska, N. 51° 02′, W. 34° 45′ *†	29.98	761.5	54	12.2		w.			4		10		w.			con.	w.	cloudy.
S. S. Saxon, N. 41° 00′, W. 71° 35′			34	1.1		nw.			1		5			0	0	sm'h		fine.
S. S. Celtic, Liverpool, Eng*†			49	9.4		sw.			5		10		sw.	5 h'r	5 h'r			gloomy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Lepanto, Suez Canal, Egypt	30.22	767.6	61	16.1		n.			3		3		n.	0	0			fine.
S. S. Romano, N. 39° 36′, W. 59° 01′	30.30	769.6	52	11.1		nnw.			3		5?		n.	0	0	sm'h		clear.?
S. S. Salerno, N 44° 38′, W. 44° 47′†	30.07	763.8	44	6.7		wnw.			2		10		w.	0.5	13.	h'vy	sw.	foggy.
S. S. Antonio Lopez, Cadiz, Spain	30.14	765.5				ese.			4		8			2 h'r	2 h'r			squally.
Bgt Achsah, Clementsport, N.S			28	— 2.2		nw.			3		4		nw.	0	0			clear.
Bk. Adelaide, N. 30° 24′. W. 44° 35′ *†	30.32	770.1	72	22.2		s.			6		3		s.	6 hr	6 hr	long	ese.	fair.
Bk. Benjamin Dickerman, N. 25° 40′, W. 83° 15′*†	30.21	767.3	70	21.1		ne.			4		0			0	0	sm'h		clear.
Bk. Bayonnaise, N. 35° 50′, W. 12° 10′			55.4	13		ene.			4		5		e.	0	0	sm'h	e.	fair.
Bk. Celestina, N. 3° 14′, W. 24° 18′ *†	29.93	760.2				n.			0–1					3 h'r	3 h'r	light	ne;se	
S. Dora, N. 59° 15′, W. 28° 27′†	29.16	740.7	41.9	5.5		w.			8		5		w.	4 h'r	4 h'r	h'vy	wnw.	heavy gale.
Schr. Edith R. Seward, N. 36° 27′, W. 74° 50′			46	7.8		calm			0		3		calm	0	0	sm'h	ene.	clear.
Bk. Gloire, N. 23° 43′, W. 27° 45′ *	30.12	765.0	64	17.8		ene.			6		4		e.	0	0	long	ne.	fair.
Bk. George Davis, N. 31° 26′, W. 79° 20′						ne.			4				ne.	c	0		ne.	d. clouds.
S. Hedwig, N. 39° 28′, E. 18° 50′	30.25	768.3	58.8	14.9	86	s.			3		9		s.	0	0	sm'h		fine.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.17	766.3	63	17.2		ese.			2					0	0			foggy.
S Henry, N. 37° 52′. E 3° 34′*	30.24	768.1	58.3	14.6		e.			3	4 ck	0					3	wsw.	fair.
Schr. John L. Thomas, South Hobbles Cays, C. A †	30.00	762.0	75	23.9	77	nne.			3		1		nne.	0	0	mod.	ne.	clear.
Bg. John Welsh, jr., Mobile bay, Ala †	30.22	767.6				sse.			3		5		se.					fair.
Bg. Lillian, N. 22° 50′, W. 58° 50′†	30.14	765.5	71	21.7		n.			1		3		ne.	0	0	mod.	n;ne.	fair.
S. S. Laurel, Key West, Fla†	30.15	765.8	68	20.0		n.			2		2		nne.	0	0			clear.
Bg. L. F. Munson, N. 41° 45′, W. 63° 30′*†	30.30	769.6	42	5.6		wnw.			5		6		nw.	0	0	long	sse.	fair.
S. S. Madrid, Shields, Eng			47	8.3	85	nne.			4		9		nne.	6 h'r	6 h'r			fair.
Schr. Minnie A. Bonsall, Jacksonville, Fla						calm			0					0	0			clear.
Schr. Norena, N. 20° 25′, W. 63° 30′†	30.07	763.8				ene.			3		3		ene.	0	0	light	ne.	
S. Stephen D. Horton, N. 48° 05′, W. 23° 08′†	30.58	776.7				wsw.			4		10		wnw.	0	0	mod.	wnw.	cloudy.
Bk. Silica, N. 40° 30′, W. 43° 35′*	30.20	767.1				s.			6		10		s.	rain	rain	r'gh	var.	raining.
Bg. Teneriffe, N. 27° 41′, W. 71° 20′	30.19	766.8				se.			1		10		ne.	rain	rain	3	ne.	showery.
S. S. City of Alexandria, N. 21° 10′, W 90° 28′ *†	30.07	763.8	72	22.2		nne.			1								ene.	d. clouds.
S. S. Schiedam, N. 43° 58′, W. 49° 31′						nw.			4							4	w.	cloudy.
S. S. Strathleven, N. 34° 35′, W. 72° 09′*	30.30	769.6	58.5	14.7	56	sse.			2		0					2	ene.	blue sky.
District No. 2—South Atlantic.																		
U. S. S. Pinta, S. 35° 00′, W. 54° 34′	29.73	755.1	66	18.9	68	sw.			4		5		sw.			r'gh	sw.	squally.
H. M. S. Amethyst, Montevideo, Uruguay	29.71	754.6	67.5	19.7	76	sw.			5		1	ssw.				4	sw.	squally.
H. M. S. Boadicea, S. 0° 08′, W. 15° 46′	29.85	758.2	82	27.8	91	calm			0		6	nne.				1	nne.	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	29.96	761.0	74	23.3	68	se.			4		3	se.						d. clouds.
H. P. M. S. Bengo, S. 8° 34′, E. 13° 04′	29.98	761.6	82.4	28.0	88	calm			0		5			0	0	2		blue sky.
S. S. George S. Homer, S. 55° 48′, W. 64° 45′*†	29.62	752.3				wsw.			1		4		wsw.	0	0	mod.	s.;w.	fine.
Bk. Godeffroy, S. 23° 18′, W. 25° 36′	29.91	759.7	76.8	24.9	78	nne.			4–5		6			rain	rain	mod.	e.	squally.
Bk. Horace Scudder, St Paul de Loando, Benguela*†	30.10	764.5	80	26.7		w.			4		2		wnw.	0	0			clear.
Bkt. Levanter, S. 34° 42′, W. 53° 44′*	29.71	754.6	72	22.2		s.			7		5		sw.	0	0	mod.	sw.	fair.
S. St. David, S. 19° 30′, W. 27° 21′ *†	30.01	762 2	81	27.2	74	nne.			4		4		ne.	0	0	mod.	nne.	fine.
Bk. Winifred, S. 22° 50′, W. 39° 42′ *†	29.85	758.2											s.	0	0		sse.	clear.
S. David Stewart, S. 3° 14′, W. 37° 11′†	29.70	754.4	83	28.3		ne.			5		4		ene.	0	0	mod.	e.	hazy.
S. S. Teniers, S. 27° 01′, W. 44° 11′	29.81	757.2	76.8	24.9	61	nnw.			2		3 k			0	0	2	sw.	blue sky.
S. Orealia, S. 18° 08′, W. 29° 28′*	29.86	758.4				ese.			5		3		ene.	0	0	mod.	sw.	clear.
District No. 3—North Pacific.																		
U. S. S Alert, N. 19° 12′, E. 149° 30′	30.10	764.5	74	23.3	81	nne.			4		2		n.			mod.		fair.
U. S. S. Essex, Canton, China	30.00	762.0	52	11.1	86	nnw.			3		10							raining.
U. S. S. Juniata, Shanghai China	30.23	767.8	35	1.7	100	ne.			3		10			snow	snow			snowing.
U. S. S. Monocacy, Shanghai, China			34	1.1	90	n.			4		10		n.					cloudy.
U. S. S. Palos, Tientsin, China	30.51	774.9	24	— 4.4		calm			0		0							clear.
U. S. S. Ranger, Corinto, Nicaragua	29.92	760.0	78	25.6	61	nne.			3		8			0	0	mod		cloudy.
H.M.S. Audacious, Victoria harbor, Hong Kong, China			59	15.0	94	nnw			1		7	nw.						raining.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	29.89	759.2	60	15.6	94	nw.			2		10					sm'h		raining.
H. M. S. Champion, Shanghai, China			37	2.8	81	ne.			2		10							snowing.
H. P. M. S. Tamega, Macao, China	30.02	762.4	54.5	12.5	88	n.			5		10			20 h'r	20 h'r			raining.
S. S. Oceanic, near Tokio, Japan	30.11	765.3	47	8.3	62	calm			0		4			0	0	sm'h		clear.
S. S. Columbia, N. 43° 42′, W. 124° 40′*†	29.70	754.4	40	7.8	100	n			1		10		calm			sm'h	w.	raining.
S. S. Oregon, Portland, Oregon †	29.75	755.6	37	2.8	90	calm			0		10		s.					raining.
S. S. Alameda, N. 25° 24′, W. 152° 34′†	29.88	758.9	66	18.9		nne.			3		1		nne.	0	0	mod.	ne.	clear.
S. S. Ancon, San Francisco, Cal	29.77	756.1	51	10.6	100	se.			2		9		ne.	1 h'r	1 h'r			cloudy.
S. S. City of Chester, near Point Arenas, Cal	29.78	756.4	51	10.6	86	ese.			4		0			0	0	light	se.	clear.
S. S. Queen of the Pacific, Port Townsend, Wash Ter.	29.72	754.9	41	5.0	91	sse.			4		4?		s.	3 h'r	3 h'r	sm'h		cloudy.?
S. S State of California, San Francisco, Cal. †	29.82	757.4	50	10.0	100	se.			2		10		se.					raining.
S. S. City of Rio de Janeiro, N. 29° 07′, E. 156° 36′ †	30.06	763.5				wnw.			6		6		wnw.			mod.	w.	fair.
S. S. Colima, N. 31° 57′, W. 119° 29′†	29.90	759.4	59	15.0	82	ssw.			3		7		sw.	0.05	1.3	mod	s.	fair.
S. S. Granada, N. 10° 14′, W. 86° 06′†	29.85	758.2	78	25.6	73	nne.			6		0			0	0	mod	nne.	clear.
S. S. San Blas, N. 7° 07′ W. 81° 32′ †	29.83	757.7	78	25.6	91	n.			4		0			0	0	small	ne.	clear.
S. Carondelet, N. 6° 32′, E. 136° 36′ *†	29.94	760.5				ne.			5		2		ne.	8 h'r	8 h'r	mod.	ene.	clear.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 2° 13′, W. 111° 20′	29.88	758.9	77	25.0	95	ese.			4		10		ese.	0	0	sm'h	ese.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.02	762.5	71	21.7	100	e.			2		10		e.			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru *	29.93	760.2	69	20.6	95	ese.			1		10		calm			mod.	nnw.	misty.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	29.99	761.7	63	17.2	67	ne.			2		0							blue sky.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.29	769.4	64.3	17.9	89	ne.			4		5					sm'h		squally
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.75	755.6	47	8.3	85	sse.			1		8							d. clouds.
S. S. Australia, S. 34° 25′, E. 169 59′	30.29	769.4	67	19.4	95	n.			5		4		n.	0	0	mod.	n.	fair.
S. S. Zealandia, S. 3° 31′, W. 167° 16′	29.71	754.6	83	28.3	79	e.			5		10		se.	1 h'r	1 h'r		se.	hazy.
S. Grecian, S. 55° 53′, W. 78° 28′ †	29.77	756.1	48	8.9	100	wsw.			5		10		sw.			mod.	ssw.	rainy.
S. Ismir, S. 33° 58′, W. 89° 42′ *†	30.35	770.9				se.			5		2		se.	0	0	r'gh	se.	clear.
S. St. Francis, S. 5° 00′, W. 108° 30′ *†	30.00	762.0	74	23.3	81	ese.			5		2		se.	0	0	mod.	se.	clear.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.81	757.2	67	19.4		n.			2		8	n.				4	n.	
H. M. S. Sylvia, off Sandy Point, Patagonia	29.65	753.1	53	11.7	73	wsw.			2–4		7	wsw.						squally.
S. Henry Failing, S. 56° 47′, W. 70° 47′ *†	29.62	752.3	49	9.4	93	wsw.			6		10		sw.	15 h'r	15 h'r	sm'h	ssw.	showery.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, S. 28° 02′, E. 42° 22′	29.84	757.9	80	26.7	78	e.			4		8		calm	0.04	1.0	mod.	ese.	cloudy.
H. M. S. Euryalus, Suakin, Egypt	30.00	762.0	75	23.9	68	n.			6		0							blue sky.
H. M. S. Tourmaline, Tamatave, Madagascar	29.82	757.4	82	27.8	75	nnw.			1		5							d. clouds.
S. S. Port Phillip, S. 35° 18′, E. 117° 05′	29.81	757.2	73	22.8	76	ene.			1								se.	gloomy.
S. S. Radnorshire, Suez, Egypt *†	30.28	769.1				nnw.			1		0							clear.
H. M. S. Magpie, N. 6° 32′, E. 99° 16′	29.83	757.7	84.5	29.2	76	calm			0		0							blue sky.

International Chart I. February 3, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 4, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.16	766.1	64.8	18.2	88	w.			1		4			0	0	cloudy	Roziere.
Algiers			30.29	769.3	59.0	15.0	87	ne.			3		3			0	0	pretty fair	Thève.
La Calle			30.31	769.9	54.7	12.6	82	w.			2		6			0	0	cloudy	Fonfrède.
Tunis			30.34	770.6	56.5	13.6	60	n.			3		1			0	0		Delord.
Geriville					56.1	13.4	13	s.			1		0			0	0	clear	Forfert.
Laghouat			30.36	771.2	67.3	19.6	78	w.			1		0			0	0	clear	Abraham.
Biskra			30.41	772.3	66.6	19.2	53	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.05	763.3	67.2	19.6	44	ese.	5	2.2		1 cs				0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.92	760.0	30.11	764.8	52	11.1	81	calm	2	0.9			7		w.	0	0	cloudy	Com. J. Shortt, R.N.
Melbourne, Victoria	30.07	763.8	30.16	766.0	54.0	12.2	75	se.	5	2.2			1			0.06	1.5	fine	R. L. J. Emery.
Austro-Hungarian.																			
Agram	29.88	759.0	30.45	773.5	44.8	7.1	55	sw.			3		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.39	746.4	30.19	766.7	34.9	1.6	82	wsw.	17.4	7.8			10			0.106	2.7		Dr. Wierzbiski
Eperies	29.34	745.3	30.27	768.9	47.1	8.4	78	se.			4		10 s			0	0		Julius Mikolik.
Gratz	29.14	740.2	30.44	773.1	41.9	5.5	69	s.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.85	732 8	30.35	770.8	38.1	3.4	49	nw.			3		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	29.09	738.9	30.48	774.2	43.5	6.4	68	w.			3		8			0	0		The Staff.
Lemberg	29.07	738.3	30.10	764.5	32.9	0.5	80	w.			6		10			0.146	3.7		Dr. T. Stanecki.
Pola	30.36	771.1	30.47	774.0	44.6	7.0	92	wnw.			3		fg.			0.098	2.5		I. R. Hydrographic Office.
Szathmar	29.82	757.3	30.30	769.7	36.1	2.3	59	sw.			5		6			0	0		Joseph Midlinszky, S. J
Szegedin	30.11	764.7	30.40	772.1	43.3	6.3	63	nw.			3		4			0	0		Karl Stancel.
Trieste	30.39	771.9	30.49	774 4	50.4	10.2	76	w.			1		0			0.004	0.1		Royal Academy.
Vienna	29.67	753.5	30.41	772.3	46.0	7 8	55	w.			5		7			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	29.07	738.3	30.54	775.7	32.9	0.5	98	sw.			2		4			0.012	0.3		
Brussels	30.28	769.2	30.49	774.5	42.8	6.0	87	sw.			2		10		wsw.	0	0	light fog	
Furnes	30.45	773.3	30.47	773.8	47.5	8.6	85	w.			1		10			0	0		
Maeseyck	30.34	770.5	30.46	773.7	43.5	6.4	87	w.			2		10			0	0		
British.																			
Aberdeen	30.02	762.5	30.12	765.0	46.7	8.2	74	sse.	7	3.1			2			blank	blank	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			30.33	770.4	50.3	10.2	80	wsw.	19	8.5			9					overcast	John Hartnup.
Bolton, Sharples	29.77	756 1	30.32	770.1	46.2	7.9	94	wsw.	18	8.0			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.90	759.4	30.30	769.6	48.1	8.9	92	nw.			4		9			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.04	763.0	30.07	763.8	80	26.7	66	ne.			4		2					blue sky	Corp'l O. McGregor, A.H.C
Oardington					48.0	8.9	81	w.			0.6		7					d. clouds	John McLaren.
Chatham, School M. E.	30.28	769.1	30.46	773.7	48.1	8.9	79	w.			1		7					gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.31	769.9	30.55	776.0	48.9	9.4	82	wsw.			2		9					d. clouds	The Staff.
Fort Napier, Natal																			Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.77	756.1	30.00	762.0	81	27.2	91	se.			4		1					d. clouds	J. W. Smith.
Galway, Queen's College	30.24	768.1	30.28	769.1	49	9.4	93	wsw.			3		10			0.04	1.0	drizzling	Wm. Ryan.
Gibraltar, Mediterranean	30.11	764.8	30.16	766.1	58.9	14.9	92	se.			5		10					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	30.28	769.1	30.45	773.4	47.7	8.7	79	w.					10					overcast	The Staff.
Guernsey	30.21	767.3	30.52	775.2	47.5	8.6	90	wsw.			1		10					misty	A. Collenette, F.R.M.S.
Kew, Observatory	30.43	772.9	30.46	773.7	48.2	9.0	76	w.	11	4.9			9					d. clouds	The Staff.
Leicester, Museum	30.10	764.5	30.36	771.1	50.4	10.2	80	sw			2		10					overcast	J. C. Smith.
Malta, Mediterranean	30.24	768.1	30.32	770.1	58 0	14.4	73	ne.			3		2			0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.19	766.8	72.0	22.2	74	e.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.21	767.3	30.44	773.2	48.6	9.2	80	wsw.			3		9					overcast	The Staff.
Plymouth	30.44	773.2	30.52	775.2	47.4	8.6	92	calm			0		10					misty	John Merrifield.
Sandwick Manse, Orkneys	29.90	759.4	30.00	762.0	44.5	6.9	82						8					d clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.21	767.3	30.28	769.1	41.6	5.3	89	ne.			2		10					raining	W. H. Lyne.
Sheffield	30.05	763.3	30.34	770.6	49.1	9.5	85	wsw.			2		7					overcast	W. F. Cooper.
Silloth Rectory	30.22	767.6	30.25	768.3	46.0	7.8	99	sw.			3		8			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.37	770.1	45.4	7.4	96	w.	24	10.7			10			0.574	14.6	overcast	Rev. S. J. Perry.
Strathfield Turgiss					48.6	9.2	78	w.			1.0		9					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.40	772.1	30.42	772.7	51.2	10.1	89	wsw.	20	8.9			10			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.98	761.5	30.37	771.4	57.2	14.0	73	e.	9.3	4.2		0	5 k		e.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.58	776.7	30.62	777.7	−23.0	−30.6		calm	0	0		3 cs	0	nw.		0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.54	775.7	30.59	777.0	2	−16.7	92	nw.	3	1.3			8 s		w.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.59	777.0	30.66	778.7	−20	−28.9		calm	0	0		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.26	768.6	30.49	774.4	− 8.0	−22.2	100	ne.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	30.58	776.7	30.63	778.0	−21.5	−29.7		calm			0	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.61	777.5	30.64	778.2	−20	−28.9	68	s.	2	0.9		2 cs	2 ks	calm	calm	0	0	clear	J. McWilliams
Fort Garry, Manitoba*	29.29	746.5	30.35	770.9	− 9	−22.8	100	s.	8	3.6			10 n			0	0	fair	James Stewart.
Fredericton, N. B	30.58	776.7	30.66	778.7	− 8.4	−22.4	100	calm	0	0		0	9 s			0	0	d. clouds	Prof. Thos. Harrison.
Grand Manan, N. B	30.48	774.2	30.54	775.7	15	− 9.4	96	ne.	14	6.3			10 s		ne.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	29.13	739.9	30.33	770 4	15.5	− 9.2	97	ne.	5	2.2			10 n			inap.	inap.	overcast	Jas. Grant.
Halifax, N. S*	30.44	773.2	30.58	776.7	16	− 8.9	91	ne.	4	1.8		8 k	0			inap.	inap.	cloudy	A. Allison.
Hamilton, Ontario	29.89	759.2	30.34	770.6	12.7	−10.7	90	ne.			1	10 cs	0	ne.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.08	764.0	30.46	773.7	4	−15.6	76	nw.	7	3.1		0	0			0.02	0.5	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	30.48	774.2	30.52	775 2	16.0	− 8.9	83	w.	2	0.9		4 ck	0	w.		0	0	fair	C. H. Rigby.
London, Ontario	29.35	745.5	30.34	770.6	16.8	− 8.5	90	ne.			2		10 ks			inap	inap.	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.65	702.6	30.26	768.6	−10	−23.3	100	nw.	0	0			10 n			0.06	1.5	cloudy	John Ewart.
Minnedosa, N. W. T	28.11	714.0	30.31	769 9	−10	−23.3	100	w.	9	4.0		hz.	0			0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	30.33	770.4	30.58	776.7	−11	−23.9	100	n.	9	4.0		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.28	769.1	30.54	775.7	−16.9	−27.2	100	n.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.67	753.6	30.47	773.9	− 6	−21.1	65	e.	7	3.1		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.62	752.3	30.45	773.4	2.6	−16.3	67	w.			1		10 k			inap.	inap.	overcast	Wm. O'Connor, M.A.
Port Arthur	29.60	751.8	30.40	772.1	− 3	−19.4	65	n.	2	0.9		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.57	751.1	30.33	770.4	16	− 8.9	100	ne.	10	4.5			10 cs			0.04	1 0	cloudy	B. Morgan
Port Stanley, Ontario	29.61	752 1	30.30	769.6	19	− 7.2	87	e.	8	3.6			10 n		e.	0.02	0.5	cloudy	M. Payne.
Qu Appelle, N. W. T	27.71	703.8	30.32	770.1	−14	−25.6		calm	0	0		8 ck	0	w.		0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	30.19	766.8	30.61	777.5	−11	−23.9	74	calm	0	0		10 c	0			0	0	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	30.03	762.7	30.58	776.7	−25	−31.7	100	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B	30.50	774.7	30.55	776.0	7	−13.9	95	ne.	7	3.1		0	hz			0	0	clear	
St. John, N. B	30.43	772.9	30.59	777.0	5.3	−14.8	85	n.	8	3.6		3 k	2 k	nw.		0	0	fair	G. Hutchinson.
St. Pierre, N. F			30.35	771.0	19.4	− 7.0		nw.			3								The Commandant.
Saugeen, Ontario*	29.60	751.8	30.30	769.6	7	−13.9	91	e.	6	2.7		10 cs	0			0.20	5.1	cloudy	
Stratford, Ontario	28.96	735.6	30.37	771.4	11.1	−11.6	92	se.	1	0.4			10 s			0.070	1.8	snowing	W. McBride, M.A.
Sydney, C. B*	30.48	774.2	30.55	776.0	9	−12.8	96	calm	0	0		8 c	0	w.		0	0	fair	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
Toronto, Ontario*	30.00	762.0	30.43	772.9	7	—13.9	83	ne.	12	5.4			10 ks		e.	0.02	0.5	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.20	741.7	30.36	771.1	14.6	— 9.7	93	ne.	16	7.2			10 s			0.050	1.3	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.44	773.2	30.51	774.9	19	— 7.2	73	e.	8	3.6			10 n			0.01	0.3	light snow	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	29.92	760 0	29.95	760.7	74.5	23.6	86	ssw.				0	4 k			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.86	758.4			76.2	24.6	67	ne.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			82	27.8	44									0	0		J. F. Eustace
CHILIAN.																			
Coquimbo	29.82	757.3	29.89	759.2	66.2	19.0	88	ne.			2	10						cloudy	Samuel Redolez.
Iquique	29.77	756.1	29.80	756.8	75.6	24.2	73	sw.			2	5 c						foggy	Rafael Moreno.
Niebla	29.57	751.1	29.68	753.8	56.8	13.8	72	e.			3	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.76	755.8	29.84	758.0	71.2	21.8	83	nw.			1	8 s		nw.				fair	Manuel Tobar.
Punta Corona	29.90	759.5	30.09	764.2				e.			3	6 s		nw.		0.850	21.6	cloudy	Francisco Alvarado.
Valparaiso	29.72	755.0	29.86	758.5	63.9	17.7	88	sw.			1	0	0					cloudy	Paez-i-Ampuero.
CHINESE (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.26	768 6	30.28	769.2	26.6	— 3.0	87	w.	11.6	5.2			5			0.217	5.5	cloudy	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.83	757.6	29.87	758.8	45.1	7.3	82	wnw.	27	12			0						Oversergent Fischer.
Fanöe	30.04	763.1	30.06	763.6	42.6	5.9	93	w.			6		1						Overloerer Lauridsen.
Godthaab, Greenland	29.58	751.2	29.62	752.3	—14.3	—25.7	100	nne.			2–4		5						S. Kleinschmidt.
Ivigtut, Greenland	29.43	747.5	29.45	748.0	— 2.6	—19.2		n.			2		2					snowing	
Jacobshavn, Greenland	29.53	750.0	29.58	751 2	—28.8	—33.8		calm			0		0						
Stykkisholm, Iceland	29.06	738.0	29.10	739.1	28.8	— 1.8	90	se.			6		10					snowing	A. O. Thorlacius.
Thorshavn	29.68	753.8	29.70	754.4	42.1	5.6	71	ssw.	20	9			7						Overloerer Bergh.
Upernavik, Greenland	29.58	751 3	29.63	752.5	—19.5	—28.6		e.			2		0						
Vesterviig	29.84	757.8	29.93	760.1	43.3	6.3	74	w.			6		0						Loerer Oesterhol.
EGYPTIAN.																			
Cairo	30.08	764.1			60.1	15.6		ne.	4.0	1.8			5?			0	0	covered?	Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.94	760.5	30.61	777 5	44.6	7.0	85	ene.			1		0			0	0	misty	M. Labroue, Director.
Alencon, Normal School	30.06	763.5	30.61	777 5	40.3	4.6	90	ne.			1		10 k		sw.	0	0	covered	M. Nicot, Director.
Arras, Normal School					44.4	6.9	86	sw.			1		10			0	0	covered	M. Ungerer, Director.
Avignon, Normal School	30.47	773.8	30.54	775.8	51.4	10.8	61	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.06	763.6	30.66	778.7	34.0	1.1	99	se.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.32	770.2	30.60	777.2	45.5	7.5	77	s.			1		10		wnw.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.77	756.2	30.71	779.9	45.3	7.4	91	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.24	768.2	30.52	775.1	43.5	6.4	78	e.			1		0			0.004	0.1	misty	M. Rayet, Director.
Bourges, Normal School	30.06	763.4	30.63	778.1	44.6	7	97	e.			1		1		e.	0	0	clear	M. Sauvageot, Director.
Brest, Naval Observatory	30.37	771.4	30.61	777.6	46.8	8.2	83	s.			1		10		s.	0	0		M. de Kermarrée, Dir.
Caen, Normal School	30.50	774.8	30.58	776 8	47.5	8.6	94	ssw.			1		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch	30.27	768.8	30.60	777.3	37.2	2.9	82	ssw.			1		8		w.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	30.05	763 2	30.58	776.8	36.5	2.5	80	ne.			1		10			0	0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	29.17	740.8	30.59	776.9	41.4	5.2	66	s.			2		10			0	0		M. Allnard, Director.
Cluny, Normal School	29.74	755.4	30.63	777.9	43.2	6.2	82	ne.			1		2		ne.	0	0	slightly cl'dy	M. de Villemontée, Dir.
Cominercy, Normal School	29.73	755.1	30.64	778.2	37.8	3.2	76	w.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.89	708.3	30.49	774.5	45.0	7.2	77	s.			1		0			0	0		M. Jarach, Director.
Grèasque, du Rhone	29.34	745.3	30.49	774.4	54.9	12.7	63	n.			1		1		sw.	0	0		M. Klua, Director.
Grenoble, Normal School	29.58	751.3	30.37	771.5	44.2	6.8	76	ese.			1		0			0	0	clear	M. Abland, Director.
Guéret, Naval Observatory	28.92	734 6	30.55	776 0	40.3	4.6	74	se.			1		1		se.	0.08	2.		M. Delorme, Dir.
Lescar, Normal School	29.94	760.4	30.51	775.0	54.5	12.5	62	ese.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.54	775.6	30.64	778.2	50.0	10.0	58	se.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.33	744.9	30.40	772 2	37.6	3.1	80	n.			1		10 n			0	0	covered	M. André, Director.
Mans, Normal School	30.30	769 7	30.52	775 3	38.7	3.7		ese.			1		2 k		ese.	0	0	slightly cl'dy	M. Richard, Director
Marseille, Observatory	30.20	767.1	30.48	774.1	57.2	14.0	65	wsw.			1		4		se.	0	0		M. Stephan, Director.
Montlouis	25.13	638.3	29.97	761.3	41.9	5.5	48	s.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.40	772.1	30.51	774.9	52.2	11.2	69	n.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.80	757.0	30.63	777.9	38.8	3.8	87	wnw.			1	c				0	0		M. Hasse, Director.
Nantes, Observatory	30.48	774.2	30.64	778 3	42.4	5.8	67	ese.			0–1		0			0	0		M. Larocque, Director.
Perpignan, Observatory	30.43	772 9	30.55	775 9	51.4	10.8	58	e.	5.6	2.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.36	543.0			24.8	— 4.0		sw.			1		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.48	748.8	30.60	777.1	42.8	6.0	67	n.			4		n		n.	0	0		M. Tailleu.
Puy de Dôme Obs'y, Summit	25 48	647.1			27.3	— 2.6	98	sse.			2		0			0.039	1.0		M. Alluard.
Rochefort, Naval Obs'y	30.57	776.4	30.60	777 2	43.2	6.2	67	ne.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.39	771.8	30.61	777.6	41.5	5.3	87	e.			1					0	0		M. Brotier, Director.
Rodez, Normal School	28.34	719 8	30.59	776.9	39.6	4.2							0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.54	775.7	30.59	776.9	45.0	7.2	88	e.			1		10		ne.	0.008	0.2	foggy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	30.44	773.1	30.61	777.5	41.9	5.5	75	sw.			1		8		w.	0	0	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.83	757.7	30.56	776.3	47.8	8.8	92	ene.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.44	773 1	30.63	777.9	41.7	5.4	66	nne.			1					0	0		M. de Tastes.
Versailles, Observatory	30.09	764.3	30.58	776.8	42.1	5.6	75	sw.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.39	772.0	30.54	775.8	42.3	5.7	91	e.	5.8	2.6			6 k		e.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	29.04	737.5	30.57	776.5	35.2	1.8	83	w.			4		5	w.		0	0		Prof. Jnedt.
Bamberg	29.59	751.0	30.45	773.4	36.0	2.2	80	se.			2		8 ks			0.008	0.2		Prof. Dr. Hoh.
Berlin	30.02	762 6	30.17	766.4	41.7	5.4	82	w.			3		10			0.035	0.9		Meteorological Institute
Breslau	29.66	753.8	30.21	767.4	39.4	4.1	77	w.			5		6			0	0		Royal University Obs'y
Carlsruhe	30.05	763 2	30.61	777.6	42.1	5.6	64	sw.			2		5	sw.		0	0		Albert Senz.
Cassel	29.67	753.7	30.39	771.8	37.8	3.2	89	s.			4		8	s.		0.031	0.8	snowing	Dr. H. Möhl.
Frankfort-on-the-Main	30.13	765.3	30.52	775 1	39.2	4.0	82	ssw.			1		10			0	0		Physical Society.
Friedrichshafen	29.11	739.5	30.60	777.2	41.0	5.0	78	wnw.			1		6	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.10	764.5	30.19	766.8	43.2	6.2	96	w.			6		10			0.028	0.7	raining	E. Preller.
Kiel	30.08	764 0	30.10	764.4	43.7	6.5	94	w.			4		10			0.047	1.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.91	759.6	30.34	770.7	41.5	5.3	74	sw.			3		9	wsw.		0	0		H. Leppig, Asst.
Magdeburg	30.06	763.5	30.26	768.5	44.1	6.7	80	w.			5		10	wnw.		0	0		Weather Observatory.
Memel	29.52	749.7	29.56	750 8	39.7	4.3	93	nw.			7		10 s					raining	Issermann.
Munich	28.67	728.1	30.56	776.3	41.5	5.3	65	w.			2		4	sw.		0	0		Central Station.
Neufahrwasser	29.70	754.3	29.71	754.7	41.7	5.4	91	w.			6		10			0.031	0.8	raining	A. Lothes.
Neustadt, Palatinate	29 99	761.8	30.53	775.4	40.1	4.5	76	calm			0		10			0	0		Prof. Dicknether.
Stuttgart	29.62	752 3	30.55	776.0	42.8	6.0	59	n.			2		3	nw.		0	0		Prof. Dr. Schoder.
Wustrow	29.97	761.2	30.00	761.9	41.0	5.0	87	w.			5		10			0.150	3.8		Profs. Brandes & Reimer
GREEK.																			
Athens	29.82	757 5	30.21	767.4	58.6	14.8		ne.			1.0	0	6			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.98	761.4	30.03	762.8	69.1	20.6	45	wnw.	21.0	9.4			6			0	0	d. clouds	
Deesa	29.48	748.7	29.96	761.0	74.1	23.4	29	wnw.	10.0	4.5			3	wnw.		0	0	d. clouds	
Bombay	29.94	760.5	29.98	761.5	76.8	24.9	59	nnw.	17.0	7.6			0			0	0	blue sky	
Poona, Yarrowda	28.06	712.8	29.92	759.8	80.3	26.8	25	nw.	20.0	8.9			0			0	0	blue sky	
Belgaum	27.37	695.2	29.89	759.2	81.1	27 3	28	e.	4.0	1.8			1	n.	w.	0	0	d. clouds	
Lahore	29.19	741.4	29.97	761.2	58.6	14.8	73	ne.	2.0	0.9			6			1.56	39.6	d. clouds	
Roorkee	29.03	737 2	29.96	761.0	60.8	16.0	82	calm	0	0			8	w.		0.17	4.3	overcast	
Agra	29.31	744.5	29.88	759.0	77.2	25.	32	w.	8.0	3.6			8		w.	0	0	d. clouds	
Nagpur	28.89	733.9	29.94	760 5	78.5	25.8	33	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.59	726.2	29.96	761.0	76.4	24.7	30	w	6.0	2.7			0			0	0	blue sky	
Lucknow	29.52	749.8	29.90	759 5	73.2	22.9	41	ene.	1.0	0.4			0			0	0	blue sky	
Allahabad	29.57	751.0	29.89	759.1	76.2	24.6	56	ene.	2.0	0.9			0			0	0	blue sky	
Patna	29.73	755.1	29.92	760.0	70 5	21.4	49	nnw.	3.9	1.7			0			0	0	blue sky	
Hazaribagh	27.88	708.1	29.92	760.0	70.6	21.4	31	nw.	2.0	0.9			0			0	0	blue sky	
Cuttack	29.87	758.6	29.95	760.8	76.6	24.8	38	nw.	6.0	2.7			0			0	0	blue sky	
Calcutta, Alipore	29.89	759.2	29.91	759.8	71.7	22.1	54	s.	3.0	1.3			2			0	0	d. clouds	
Dhubri	29.81	757.2	29.94	760.3	65.7	18.7	52	calm	1.1	0.5			0			0	0	blue sky	
Chittagong	29.87	758.8	29.97	761.1	68.1	20.1	67	sw.	3.1	1.4			2			0	0	misty	
Sibsagar	29.61	752.0	29.96	760 9	60.1	15.6	82	e.	1.0	0.4			5	sw.	sw.	0	0	d. clouds	
Jeypore	28.48	723.3	29.96	760.9	68.7	20.4	57	nw.	19.5	8.7			4	nw.		0	0	d. clouds	
Zanzibar	29.86	758.5	29.89	759.1	83.9	28.8	60	ene.	10.0	4.5			1	ne.		0	0	d. clouds	
Bellary	28.44	722.4			82.0	27.8	31	se.	4	1.8		4 c	0			0	0	d. clouds	
Trichinopoly	29.69	754.1			83.9	28.8	26	ene.	0.2	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	30.06	763.4	30.48	774.2	50.9	10.5	52	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.97	761.3	30.51	775.0	45.9	7.7	68	sse.	1.8	0.8			2			0	0		Prof. G. V. Schiapparelli
Padua	30.38	771.6	30.49	774.5	49.6	9.8	60	ne.	0.7	0.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.57	751.1	30.51	774.9	48.6	9.2	46	ne.	1.8	0.8			0			0	0		Prof. F. F. Denza.
Genoa	30.28	769.0	30.47	774.0	56.5	13.6	53	sw.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.45	773.5	30.50	774.8	42.8	6.0	97	n.	10.5	4.7			10			0.205	5.2		Prof. Luigi Guidi.
Florence	30.18	766.6	30.44	773.2	53.2	11.8	62	n.			2		0			0.055	1.4		Prof. Costantino Pittei.
Leghorn	30.32	770.0	30.39	771.8	54.9	12.7	62	nne.	2.5	1.1			0			0	0		Prof. P. Monte.
Rome	30.22	767.6	30.40	772.1	57.2	14.0	51	n.	3.8	1.7			0			0	0		Prof. P. Tacchini.
Lecce	30.07	763.7	30.33	770.3	53.2	11.8	85	nw.	15.4	6.9			8	sw.		0.043	1.1		Prof. C. de Giorgi.
Cosenza	29.43	747.6	30.35	770.9	50.4	10.2	74	se.	3.1	1.4			3	s.		0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	30.14	765.5	30.39	772.0	57.6	14.2	77	ne.	6.3	2.8			0			0	0		Prof. G. Cacciatore
Syracuse	30.29	769.3	30.34	770.5	56.3	13.5	70	nne.	7.4	3.3			6	nne.		0	0		Sig. V. Giuliani.
Sub-series.																			
Naples, Astron'l Obs'y	29.85	758.2	30.39	771.8	56.1	13.4	53	nnw.	4.3	1.9			4	se.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.90	759.3	29.93	760.2	26.0	— 3.3	78	calm			0		10 ks		w.	0.209	5.3	cloudy	H. Hattori.
Awomori	29.93	760.2	29.90	761.0	21.5	— 5.8	69	s.	0.7	0.3			10 s;n			inap.	inap.	overcast	K. Ogawa.
Hakodate	29.97	761.2	29.98	761.5	17.4	— 8.1	97	nne.	9.0	4.0			10 n			0	0	covered	Y. Souma.
Hamamatsu	29.41	747.0	29.51	749.5	41.7	5.4	85	e.			7		10 s		se.	0.744	18.9	overcast	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	29.79	756.5	29.80	756.9	33.3	0.7	96	n.	1.2	0.5			10 n		n.	0.422	10.7	fair	Y. Okamoto.
Kagoshima	20.85	758.0	29.86	758.4	42.9	6.1	81	wnw.			2		9 s		nw.	0.355	9.0	cloudy	
Kanazawa	29.65	753.0	29.75	755.8	33.4	0.8	96	ne.	1.3	0.5			10 n			0.880	22.3	snowing	S. Endo.
Kioto	29.50	749.3	29.67	753.7	31.3	1.3	97	calm	0	0			10 n			0.813	20.6	light rain	M. Tojima.
Kochi	29.65	753.1	29.67	753.6	41.6	5.3	89	e.	9.2	4.1			10 n			0.725	18.4	raining	K. Kusunose.
Miasaka	29.76	755.8	29.78	756.5	44.1	6.7	76	wnw.			2		10 s		sw.	0.449	11.4	cloudy	K. Masusaki.
Miyako	29.86	758.5	29.97	761.3	31.8	— 0.1	67	e.	2.7	1.2			10 s			0.453	11.5	cloudy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.68	753.9	29.89	759.2	40.5	4.7	91	n.	3.3	1.5		6 cs	2 cs	w.	n.	0.330	8.4	cloudy	
Nemuro	29.99	761.7	30.04	763.0	20.0	— 6.7	58	nw.	0.0	2.7			9 s		nw.	0	0	cloudy	A Shibuya.
Niigata	29.78	756.4	29.81	757.2	30.4	— 0.9	94	ne.	5.6	2.5			10 n			0.685	17.4	heavy snow	Satoo & Tomikawa.
Nobiru	29.89	759.2	29.91	759.6	28.1	— 2.2	100	nnw.	3.4	1.5			10 n			0.645	16.4	snowing	Yoshino & Midzushina.
Numadzu	29.68	753.9	29.72	754.9	36.2	2.3	89	e.			6		10 n			1.504	38.2	snowing	T. Ohgi.
Osaka	29.69	754.0	29.70	754.4	34.8	1.6	92	n.	12.5	5.6			10 n			0.785	19.9	light rain	H. Omura.
Sakai	29.81	757.2	29.82	757.4	37.8	3.2	91	ne.			6		10 n		ene.	1.118	28.4	raining	Yamawehi & Sakainoto.
Sapporo	29.96	761.0	30.03	762.8	19.8	— 6.8	84	calm	0	0			10 ns			0.120	3.0	covered	S. Kimura.
Shimonoseki	29.69	754.2	29.84	757 9	36.2	2.3	93	sw.			1		10 s		nw.	0.650	16.5	cloudy	S. Sakano.
Wakayama	29.65	753.2	29.71	754.6	35.9	2.2	91	nw.	5.6	2.5			10 n			1.027	26.1	raining	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.74	755.4	29.92	760.0	83.0	28.3	66	ene.	15.0	6.7		2c;cs	4 k;n		e.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.31	617.5	30.11	764.8	48.0	8.9	69	n	0.9	0.4		6 c	0			0	0	cloudy	M. Leal & M. Pina.
Mazatlan	29.79	756.6	30.05	763.3	68.0	20.0	90	ne.	1.6	0.8		9 cs	0	se.		0	0	foggy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.45	773.4	30.45	773.4	46.2	7.9		wsw.			4					0	0		
Groningen	30.20	768.7	30.32	770.1	45.3	7.4		w.								0.004	0.1		
Helder	30.31	769.8	30.31	769.8	43.9	6.6		sw.			5					0.024	0.6		
Hellevoetsluis	30.41	772.4	30.41	772.4	49.3	9.6	83	w.			5					0	0		
Utrecht	30.35	771.0	30.41	772.4	40.8	8.2	85	sw.			4		9			0.016	0.4	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.2			74.5	23.6	93	sw.	0	0			8			0.185	4.7		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.73	755.2	29.80	756.8	42.8	6.0	85	nw.	20	9			10			2.492	63.3	raining	
Brono	28.88	733.6	28.92	734.6	35.2	1.8	85	w.			9		10			0.470	12.1	raining	
Christiania	29.40	746.8	29.55	750.5	45.1	7.3	33	wnw.	31	14			0			0	0		
Gjæsvær	28.92	734.5	28.94	735.1	19.4	— 7.0		s.			6		0			0	0		
Lodingen	28.58	720.0	28.63	727.2	29.1	— 1.0	72	e.			2		10			0.083	2.1		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.92	760.0	30.01	762.3	55.4	13.0	64	ese.	4.9	2.2			8			0.220	5.6		Capt. D. A. de Cunha.
Lisbon, Observatory	29.86	758.5	30.21	767.3	50.0	10.0	89	ne.	13.6	6.1			6			0.035	0.9		The Staff.
Ponta Delgada, Azores	30.32	770.2	30.39	772.0	56 5	13.6	75	ne.	11.9	5.3			3			0.311	7.9		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	29.94	760.4	29.98	761.4	69.6	20.9	73	ene.			5		3			0	0	hazy	
San Salvador, Congo	28.00	711.1	29.83	757.6	88.3	31.3	59	sw.			1		0			0	0		
Serra da Estrella	25.36	644.0	30.26	768.5	33.8	1.0	100	ese.			9		10			0.126	3.2	foggy	
RUSSIAN.																			
Akmolinski	28.76	730.4	29.93	760.2	9.1	—12.7	96	calm	0	0			10 n			0.051	1.3		Major K. Lasarew.
Archangel	29.37	745.9	29.39	746.4	17.6	— 8.0	91	ese.	4	2			10			blank	blank	light clouds	Capt. Sselliwerstow
Ashuruda	30.05	763.2	29.95	760.8	57.0	13.9	65	ene.	9	4		0	1 s			0	0	light clouds	
Astrakhan	29.84	757.9	29.76	755.9	30.6	— 0.8	81	w.	34	15			10 ks			0.031	0.8		Capt. Wisganow.
Baku	29.93	760.2	29.88	759.0	45.9	7.7	94	ssw.	13	6		0	S k			0	0		
Barnaul	29.67	753.7	30.22	767.7	7.9	—13.4	65	sw.	4	2			10			0	0		Meteorological Office.
Bielosersk	28.97	735.8	29.47	748.6	9.3	—12.6	100	calm	0	0			10 s			0.004	0.1	light snow	
Dorpat	28.96	735.5	29.20	741.7	33.4	0.8	96	sw.	7	3			10 n			0.173	4.4	snowing	Observatory.
Ekaterinburg	28.84	732.5	29.91	759.6	— 1.8	—18.8	90	calm	0	0		0	0			0	0		Meteorological Obs'y
Elissawetgrad	29.64	752.8	30.11	764.8	33.1	0.6	66	w.	18	8		3 cs	0			inap.	inap.	light clouds	
Kasan	29.23	742.4	29.51	749.6	20.5	— 6.4	90	se.	9	4			10			blank	blank		Observatory.
Kem	29.32	744.8	29.37	746.1	11.1	—11.6	85	calm	0	0			10 n			0.098	2.5		
Kertch	30.18	766.6	30.21	767.2	33.6	0.9	94	nw.	7	3		0	4 k			0	0		Lagorio & Sastyres.
Kieff	29.22	742.1	29.88	758.9	32.0	0.0	63	wsw.	27	12		0	8ks;n			0.083	2.1		Observatory.
Koslov	29.03	737.4	29.56	750.8	20.7	— 6.3	73	wnw.	9	4			10 s			0.067	1.7		
Igov	29.18	741.1	29.79	750.6	27.9	— 2.3	83	wsw.	20	9			10			0	0		R. I. Ssaweljew, Engin'r.
Libau	29.41	747.1	29.44	747.7	39.9	4.4	93	wsw.	9	4			10			0.165	4.2		
Lugan	29.66	753.4	29.87	758.8	27.7	— 2.4	75	w.	45	20			10			0	0		Meteorological Obs'y
Moscow	29.02	737.0	29.53	750.0	16.3	— 8.7	80	nw.	7	3			10 s			0.004	0.1		Meteorological Obs'y
Nertschinsk	27.67	702.9	30.28	769.0	—11.2	—24.0	84	calm	0	0			1			0	0		
Nikolaiev	30.10	764.6	30.17	766.4	36.0	2.2	65	w.	9	4		0	0			0	0		Capt. Kurdakow.

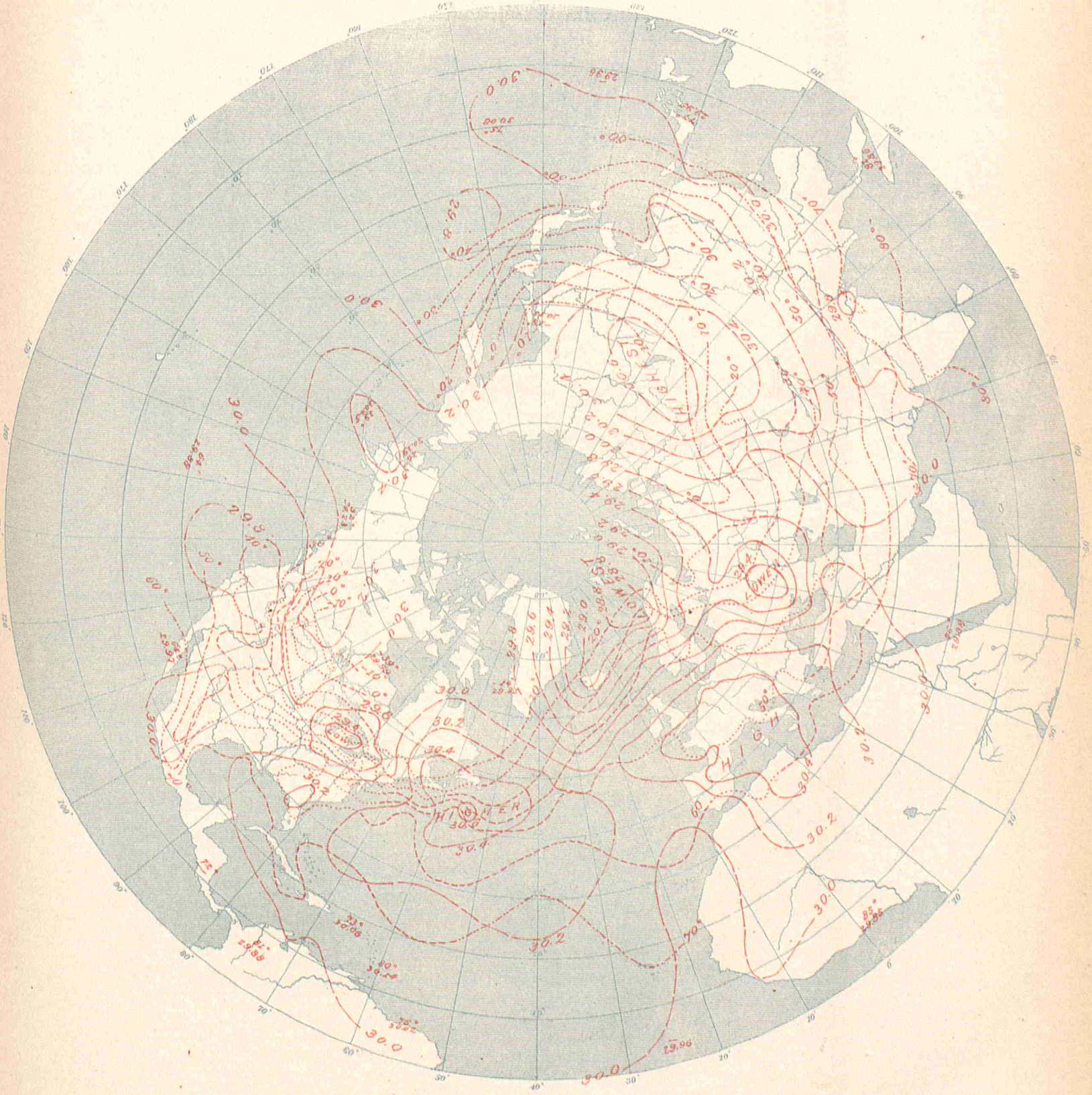
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiewsk-on-the-Amoor	29.98	761.5	30.07	763.7	—22.0	—30.0	73	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	.....
Pekin, China	30.02	762.6	30.17	766.2	27.3	— 2.6	38	sw.	2.2	1.0	.....	0	7 n	.....	.....	.....	.....	.....	Iwanow.
Petro-Alexandrovsk	29.72	755.0	30.09	764.3	39.6	4.2	87	sw.	2.2	1.0	.....	.....	10	.....	.....	.....	.....	.....	**Siang.**
Petrozavodsk	29.17	740.8	29.38	746.2	7.5	—13.6	83	se.	7	3	.....	0	3 ks	.....	.....	0	0	.....	**Walter.**
Pinsk	29.32	744.7	29.84	757.8	30.2	— 1.0	95	wsw.	34	15	.....	.....	10 n	.....	.....	0.016	0.4	snowing	Dr. Bergmann.
Poti	30.13	765.2	30.16	766.0	46.8	8.2	92	nw.	9	4	.....	.....	10 n	.....	.....	0.087	2.2	raining	.....
St. Petersburg	29.23	742.5	29.26	743.1	21.7	— 5.7	93	sse.	13	6	.....	.....	10 n	.....	.....	0.012	0.3	.....	Central Physical Obs'y.
Samarkand	27.02	701.6	30.16	766.1	41.4	5.2	49	sw.	7.8	3.5	.....	0	8 k	.....	.....	.....	.....	.....	**Dresch.**
Semipalatinsk	29.47	748.4	30.17	766.4	19.9	— 6.7	73	e.	9	4	.....	.....	10	.....	.....	0.063	1.6	.....	Major Lasarew
Sevastopol	30.04	763.1	30.27	768.8	36.5	2.5	60	ne.	7	3	.....	.....	9 s	.....	.....	0.063	1.6	.....	.....
Staroi Bykhov	29.06	738.1	29.63	752.7	30.0	— 1.1	76	w.	25	11	.....	.....	10	.....	.....	.....	.....	light snow	**Carl Hagen.**
Tashkend, Laboratory	28.47	723.0	30.20	767.1	39.2	4.0	78	s.	7	3	.....	.....	10 kn	.....	.....	.....	.....	.....	**Terch, A. M**
Tiflis	28.54	724.9	29.98	761.6	44.2	6.8	68	nw.	2	1	.....	.....	10	.....	.....	0.051	1.3	.....	Physical Observatory.
Vernoe	27.55	699.8	30.17	766.4	30.6	— 0.8	82	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	snowing	**Sariono.**
Viatka	28.86	733.0	29.52	749.8	19.0	— 7.2	84	se.	2	1	.....	.....	10	.....	.....	0	0	.....	.....
Vladivostock	30.06	763.5	30.13	765.2	11.3	—11.5	56	n.	13	6	.....	.....	0	.....	.....	0	0	.....	.....
Warsaw	29.51	749.6	29.95	760.7	34.2	1.2	91	w.	31	14	.....	.....	10 kn	.....	.....	.....	.....	heavy clouds	Astronomical Obs'y.
Yeniseisk	30.39	771.9	30.72	780.2	— 4.2	—20.1	78	ene.	2	1	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.88	733.5	29.39	746.5	16.0	— 8.9	91	w.	10.5	4.7	.....	0	8 ks	.....	w.	0.06	1.5	fair	**Bachmetieff.**
Spanish.																			
Barcelona, Met. Obs'y	30.38	771.7	30.49	774.5	57.4	14.1	61	ese.	.....	.....	.....	0	0	.....	.....	0	0	clear	**B. J. Elin.**
Bilbao, Met. Obs'y	30.45	773.3	30.50	774.8	53.1	11.7	79	se.	1.1	0.5	.....	0	0	.....	.....	0.122	3.1	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.42	696.4	30.49	774.4	45.5	7.5	69	ne.	8.1	3.6	.....	0	1	.....	.....	0	0	almost clear.	Domingo Martin.
Madrid, Royal Obs'y	28.16	715.3	30.46	773.6	49.5	9.7	69	se.	14.8	6.6	.....	.....	10	.....	.....	0	0	covered	The Staff.
Murcia, Met. Obs'y	30.24	768.2	30.37	771.5	53.4	11.9	81	ne.	4.7	2.1	.....	4	6	se.	.....	0	0	covered	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.37	746.1	30.29	769.3	53.1	11.7	74	se	8.7	3.9	.....	.....	8	.....	.....	0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.07	763.8	30.14	765.5	64.0	17.8	90	e.	1.1	0.5	.....	0	k	.....	e.	0	0	clear	**Benito Vines, S. J.**
Manilla, Philippine Islands	29.91	759.6	29.97	761.1	78.0	25.6	100	sw.	6.6	3.0	.....	.....	9 ks	.....	.....	0	0	cloudy	**F. F. Faura, S. J.**
San Fernando, Naval Obs'y	30.05	763.4	30.15	765.9	62.1	16.7	66	ese.	30.5	13.6	.....	1	5	e.	e.	0.044	1.1	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I.	30.01	762.2	30.10	764.5	76.3	24.6	78	ne.	.....	.....	.....	.....	10 kn	.....	.....	0.394	10.0	overcast	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	28.97	735.8	29.01	736.8	16.2	— 8.8	100	s.	.....	.....	6	.....	10	.....	.....	0.146	3.7	.....	.....
Umea	28.89	733.8	28.94	735.1	32.0	0.0	78	ssw.	.....	.....	2	.....	8	.....	.....	0	0	.....	.....
Hernosand	29.03	737.3	29.08	738.6	38.8	3.8	60	wnw.	.....	.....	2	.....	6	.....	.....	0.051	1.3	.....	.....
Stockholm	29.12	739.0	29.30	744.1	42.8	6.0	65	wnw.	.....	.....	6	.....	0	.....	.....	0.020	0.5	.....	.....
Wisby	29.35	745.4	29.41	746.9	42.1	5.6	85	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....
Sub-series.																			
Upsala	29.15	740.3	29.23	742.5	42.6	5.9	68	wnw.	9.8	4.4	.....	.....	0	.....	.....	0	0	.....	H. H. Hildebrandsesson
Swiss.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.33	770.4	42.1	5.6	97	ene.	10	4.5	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.34	770.7	62.2	16.8	.....	ne.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.17	766.2	60.8	16.0	56	sw.	.....	.....	2	.....	10 n	.....	sw.	0	0	.....	**F. Nimr, B. A., Dir.**
United States.																			
Albany, New York	30.35	770.9	30.44	773.2	17	— 8.3	67	n.	6	2.7	.....	.....	10 n	.....	.....	0.10	2.5	light snow	**J. O. Barnes.**
Alpena, Michigan	29.66	753.4	30.37	771.4	11.8	—11.2	80	ne.	5	2.2	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.89	632.2	29.99	761.7	40.7	4.8	92	sw.	9	4.0	.....	.....	10 n	.....	.....	1.11	28.2	light rain	**J. B. Turton.**
Assinnaboine, Ft., Montana	27.11	688.6	30.15	765.8	— 4.2	—20.1	68	ne.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	**F. Newman.**
Atlanta, Georgia	29.02	737.1	30.24	768.1	53.4	11.9	68	s.	9	4.0	.....	0	5 s	.....	w.	0	0	fair	**S. W. Beall.**
Atlantic City, New Jersey	30.20	767.1	30.21	767.3	40.0	4.4	73	e.	1	0.4	.....	.....	10 k	.....	w.	inap.	inap.	cloudy	**B. A. Blundon.**
Augusta, Georgia	30.09	764.3	30.29	769.4	47	8.3	89	s.	1	0.4	.....	0	fg	.....	.....	0	0	clear	**W. J. Evans.**
Baltimore, Maryland	30.21	767.3	30.20	768.6	41	5.0	73	n.	4	1.8	.....	0	8 s	.....	ne.	0.01	0.3	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.20	767.1	30.22	767.6	38.0	3.3	86	n	6	2.7	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	**F. L. Johnson.**
Bennett, Fort, Dakota	28.53	724.6	30.26	768.6	— 4.0	—20.0	77	se.	1	0.4	.....	2 c	3 s	.....	.....	0.10	2.5	fair	A. Pritchard.
Benton, Fort, Montana	27.13	689.1	30.13	765.3	— 3.0	—19.4	36	calm	0	0	.....	.....	10 n	.....	.....	0.05	1.3	light snow	**Thomas Morgan.**
Bismarck, Dakota	28.30	718.8	30.28	769.1	—12.0	—24.4	100	ne.	2	0.9	.....	0	0	.....	.....	0.06	1.5	clear	**B. O. Lenoir.**
Block Island, Rhode Island	30.29	769.4	30.32	770.1	33.5	0.8	100	ne.	20	8.9	.....	.....	10 n	.....	sw.	0.03	0.8	light rain	J. T. Elker.
Boise City, Idaho	26.86	682.2	29.82	757.4	35	1.7	89	s.	10	4.5	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	**James Kenealy.**
Boston, Massachusetts	30.22	767.6	30.38	771.6	26.5	— 3.1	100	ne.	10	4.5	.....	.....	10 n	.....	n.	0.20	5.1	light snow	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.96	761.0	67.2	19.6	93	se.	20	8.9	.....	0	5 s	.....	se.	0	0	fair	**John McGlone.**
Buffalo, New York	29.57	751.1	30.30	771.1	15.1	— 9.4	80	ne.	12	5.4	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.99	710.9	30.20	767.1	— 3	—19.4	86	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	A. Schneider.
Cairo, Illinois	29.60	751.8	30.02	762.5	58.6	14.8	89	s	10	4.5	.....	.....	10 s	.....	s.	0.07	1.8	threatening	W. H. Ray.
Canby, Fort, Washington Ter	29.41	747.0	29.61	752.1	35.0	1.7	89	e.	13	5.8	.....	.....	10 n	.....	.....	0.70	17.8	light rain	**J. H. Young.**
Cape Henry, Virginia	30.26	768.6	30.28	769.1	54.5	12.5	86	sw.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.19	766.8	30.22	767.6	40.0	4.4	89	se.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	**W. E. Smith.**
Cape Mendocino, California	29.08	738.6	29.78	756.4	39	3.9	73	se.	.....	.....	2	.....	10 s	.....	se.	0.22	5.6	cloudy	**A. P. Leavitt.**
Cedar Keys, Florida	30.23	767.8	30.25	768.3	55.2	12.9	100	ne.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	G. W. Davis.
Charleston, S. Carolina	30.19	766.8	30.25	768.3	51.0	10.6	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.27	768.8	50.0	10.0	93	sw.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.36	745.7	30.22	767.6	48.5	9.2	86	ne.	3	1.3	.....	.....	10 ks	.....	sw.	0.01	0.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.68	601.5	29.95	760.7	23.0	— 4.7	75	w.	6	2.7	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	E. McGovern.
Chicago, Illinois	29.38	746.2	30.12	765.0	28.6	— 1.9	83	ne.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.22	767.6	30.24	768.1	44.5	6.9	94	sw.	8	3.6	.....	.....	10 s	.....	w.	inap.	inap.	threatening	C. F. Dickens
Cincinnati, Ohio	29.43	747.5	30.12	765.0	44.0	6.7	89	e.	2	0.9	.....	.....	10 n	.....	e.	0.01	0.3	light rain	**L. Dunne.**
Cleveland, Ohio	29.46	748.3	30.25	768.3	25.0	— 3.9	94	e.	3	1.3	.....	.....	10 s	.....	e.	0.01	0.3	cloudy	**W. Line.**
Columbus, Ohio	29.27	743.4	30.17	766.3	36.3	2.4	81	nw.	3	1.3	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	**F. T. Williams**
Concho, Fort, Texas	27.93	709.4	29.95	760.7	62.7	17.1	90	s.	10	7.2	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	C. E. King.
Custer, Fort, Montana	26.64	676.6	30.00	762.0	— 3	—19.4	68	calm	0	0	.....	0	8 s	.....	.....	0	0	cloudy	**W. J. Daily.**
Davenport, Iowa	29.36	745.7	30.00	763.5	29.5	— 1.4	82	ne.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.13	638.3	30.09	764.3	48.0	8.9	74	se.	4	1.8	.....	.....	10 ks	.....	se.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	27.91	708.9	29.73	755.1	24.5	— 4.2	88	sw.	8	3.6	.....	.....	10 n	.....	.....	0.04	1.0	light snow	**H. S. Blandford.**
Deadwood, Dakota	25.09	637.3	30.01	762.2	5.2	—14.9	76	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear	**G. Kingsbury.**
Delaware Breakwater, Del.	30.22	767.6	30.24	768.1	38.1	3.4	90	e.	1	0.4	.....	.....	10s; fg	.....	s.	0	0	cloudy	**G. A. Martin.**
Denver, Colorado	24.44	620.8	29.96	761.0	27.4	— 2.6	97	n.	1	0.4	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.10	764.5	24	— 4.4	73	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.54	750.3	30.29	769.4	25.2	— 3.8	73	ne.	9	4.0	.....	.....	10 s	.....	e.	0.08	2.0	cloudy	**N. B. Conger.**
Dodge City, Kansas	27.30	693.4	30.04	763.0	19.5	—6.9	91	nw.	9	4.0	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	**J. E. Lanouette.**
Dubuque, Iowa	29.40	746.7	30.16	766.1	21.5	— 5.8	64	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.52	749.8	30.33	770.4	1.5	—16.9	85	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	**E. R. Brace.**
Eastport, Maine	30.48	774.2	30.55	776.0	12.5	—10.8	70	ne.	14	6.3	.....	4 c	6 s	w.	ne.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.08	687.8	29.98	761.5	31	— 0.6	100	ne.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.17	664.7	30.05	763.3	56.8	13.8	64	w.	10	4.5	.....	.....	10 n	.....	w.	0.11	2.8	light rain	J. O'Dowd.
Erie, Pennsylvania	29.51	749.5	30.28	769.1	22.3	— 5.4	87	ne.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.65	753.1	30.37	771.4	— 2.5	—19.2	73	n.	13	5.8	.....	10 ck	0	s.	.....	0	0	cloudy	**L. M. Pindell.**
Fort Smith, Arkansas	29.40	740.7	29.90	759.4	59.5	15.3	93	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Campbell.
Galveston, Texas	30.02	762.5	30.00	763.5	63.8	17.7	97	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.50	749.3	30.21	767.3	20.0	— 6.7	76	ne.	16	7.2	.....	.....	10 s	.....	ne.	0.05	1.3	cloudy	**Joseph E. Muelle**
Grant, Fort, Arizona	25.12	638.0	29.98	761.5	42.8	6.0	86	nw.	5	2.2	.....	.....	10 s	.....	nw.	1.48	37.6	cloudy	Chas. A. Read.
Hatteras, North Carolina	30.27	768.8	30.28	769.1	58.0	14.4	81	s.	5	2.2	.....	0	7 s	.....	nw.	0	0	fair	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.62	650.7	29.97	761.2	0	—17.8	72	calm	0	0		4 cs	0			0	0	fair	S. W. Morrison.
Huron, Dakota	28.73	729.7	30.25	768.3	— 4.0	—20.0	71	n.	3	1.3			10 s			0.05	1.3	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	30.07	763.8	38.0	3.3	82	e.	6	2.7			10 n		e.	0.01	0.3	light rain	C. F. R. Wappenhans.
Indianola, Texas	29.94	760 5	29.98	761.5	66.0	18.9	100	s.	13	5.8		8 k	0	s.		0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.21	767.3	30.26	768.6	47.3	8.5	100	calm	0	0			fg.			inap.	inap.	dense fog	J. W. Smith.
Keokuk, Iowa	29.31	744.5	30.01	762.2	31.0	— 0.6	84	ne.	7	3.1			10 s		ne.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.15	765.8	30.17	766.3	70	21.1	78	ne.	13	5.8		0	2 k		ne.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.27	768.8	30.29	769.4	53.0	11.7	86	sw.	11	4.9		0	8 k			0.04	1.0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.13	739.9	30.21	767.3	44.8	7.1	100	ne.	4	1.8			10n;fg			0.19	4.8	light rain	J. A. Cody.
La Crosse, Wisconsin	29.34	745.2	30.18	766.6	13	—10.6	80	ne.	8	3.6			10 s			0.20	5.1	cloudy	S. C. Emery
Leavenworth, Kansas	29.02	737.1	29.97	761.2	32.8	0.4	88	ne.	4	1.8			10 n			0.22	5.6	light rain	T. S. Outram.
Lewiston, Idaho	28.76	730.5	29.63	752.6	36.0	2.2	79	nw.	6	2.7		0	8 k		se.	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.64	752.8	29.97	761.2	65.0	18.3	90	s.	5	2.2			10 s			inap.	inap.	cloudy	W. U. Simons.
Los Angeles, California	29.53	750.0	29.93	760.2	52.2	11.2	93	e.	12	5.4			10 n			0.39	9.9	light rain	T. S. Collins.
Louisville, Kentucky	29.43	747.5	30.02	762.5	49.0	9.4	93	e.	4	1.8			10n;fg			0.22	5.6	heavy rain	L. M Dey.
Lynchburg, Virginia	29.50	749 3	30.22	767.6	48.0	8.9	82	calm	0	0			10s;fg		sw.	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.69	754.1	30.39	771.9	5.5	—14.7	86	calm	0	0			10 n			0.17	4.3	light snow	D. B. Notson.
Macon, Fort, North Carolina	30.27	768.8	30.28	769.1	45.1	7.3	88	se.	13	5 8		5 ck	4 s	nw.	s.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.32	643.1	30.07	763.8	— 9.8	—23.2	58	e.	2	0.9			10 s			0.01	0.3	cloudy	F. Burke.
Marquette, Michigan	29.62	752.3	30.40	772.1	— 2.2	—19.0	61	nw.	2	0.9		1 c	0	nw.		inap.	inap.	clear	J. Gilligan.
Memphis, Tennessee	29.66	753.4	30.01	762.2	63.5	17.5	81	sw.	6	2.7			10 n			inap.	inap.	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.39	746.5	30.19	766.8	24.8	— 4.0	80	e.	17	7.6			10 s			0.04	1.0	cloudy	S. W. Rhode.
Mobile, Alabama	30.14	765 5	30.18	766.6	57.4	14.1	96	calm	0	0		0	2s;fg		sw.	0	0	clear	H. U. Jones.
Montgomery, Alabama	29.97	761.2	30.21	767.3	57	13.9	86	calm	0	0		8ck;cs	fg.	sw.		0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.29	744.0	30.39	771.9	—15	—26.1	100	ne.	5	2.2		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.77	603.7	30.39	771.9	11.8	—11.2	100	nw.	20	8.9			fg.		nw.	0.03	0.8	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.45	748.0	30.06	763.5	59.8	15.4	92	s.	10	4.5			10 ks		sw.	0.04	1.0	cloudy	L. N. Jesunofsky
New Haven, Connecticut	30.19	766.8	30.31	769.9	30.6	— 0.8	98	ne.	15	6.7			10 s		ne.	0.05	1.3	cloudy	J. H. Sherman.
New London, Connecticut	30.28	769.1	30.34	770.6	34.0	1.1	88	nw.	5	2.2			10 n		w.	0.08	2.0	light rain	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.14	765.5	60.7	15.9	90	s.	3	1.3			fg.			0	0	dense fog	M. Herman.
New York, New York	30.10	764.5	30.29	769.4	36.0	2.2	94	ne.	14	6.3			10s;fg			0.01	0.3	threatening	H. J. Penrod.
Norfolk, Virginia	30.19	766.8	30.22	767.6	51.0	10.6	86	sw.	5	2.2			10 s		s.	0.02	0.5	cloudy	Wm. Davis.
North Platte, Nebraska	26.98	685.3	30.08	764.0	14.2	— 9.9	80	ne.	4	1.8			10 s			0	0	cloudy	J. J. Mc Lean.
Olympia, Washington T'y	29.67	753.6	29.71	754.6	32.0	0.0	88	calm	0	0			10 n			0.26	6.6	light snow	J. Dascomb.
Omaha, Nebraska	28.86	733.0	30.13	765 3	19.2	— 7.1	88	n	12	5.4			10 n			0.01	0.3	sleeting	A. Pollak
Oswego, New York	30.02	762.5	30.38	771.6	16.0	— 8.9	93	ne.	7	3.1			10 s		ne.	0.02	0.5	cloudy	J. G. Linsley.
Palestine, Texas	29.46	748 3	30.04	763.0	67.5	19.7	90	s.	12	5.4			10 s		sw.	0	0	cloudy	P. T. Jenkins.
Pensacola, Florida	30.17	766.3	30.20	767.1	57.3	14.1	100	se.	4	1.8			fg.			0	0	dense fog	M. McGauran.
Philadelphia, Pa	30.16	766.1	30.27	768.8	37.2	2.9	100	ne.	9	4.0			10s;fg			0.05	1.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.46	443.5	30.18	766.6	11.0	—11.7	87	nw.			1		fg.		w.	inap.	inap.	dense fog	H. Hall.
Pittsburg, Pennsylvania	29.35	745.5	30.21	767.3	39.0	3.9	82	nw.	5	2.2			10 s		w.	inap.	inap.	cloudy	O. D. Stewart.
Poplar River, Montana					—10.8	—23.8	100	e.			2		10 n			0.01	0.3	light snow	G. A. Carden.
Port Huron, Michigan	29.54	750.3	30.27	768.8	19.4	— 7.0	91	ne.	4	1.8			10 s			0.01	0.3	cloudy	M. H. Perry
Portland, Maine	30.42	772.7	30.47	773.9	19.0	— 7.2	76	ne.	15	6.7			10 n		ne.	0.18	4.6	light snow	W. W. Eichelberger.
Portland, Oregon	29.60	751.8	29.67	753.6	36.0	2.2	89	s	5	2.2		0	4 s			0.46	11.7	fair	M. L. Hearne.
Prescott, Arizona	24.60	621.8	29.96	761.0	37.3	2.9	83	sw.	8	3.6		0	3 s		sw.	0.98	24.9	clear	N. D. Lane.
Provincetown, Mass	30.32	770.1	30.35	770.9	34.1	1.2	99	se.	5	2.2			10 n			0.07	1.8	light snow	O. N. Kitchel.
Red Bluff, California	29.35	745.5	29.72	754.9	49	9.4	96	s.	11	4.9			10 ks		s.	0	0	cloudy	J. R. Williams.
Rio Grande City, Texas	29.71	754.6	29.96	761.0	67.6	19.8	89	se.	16	7.2		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.68	753.9	30.39	771.9	15	— 9.4	83	ne.	10	4.5			10s;hz		ne.	0.02	0.5	threatening	E. W. McGann.
Roseburg, Oregon	29.17	740.9	29.74	755.4	34.2	1.2	87	e.	2	0.9		0	8 s		sw.	0.11	2.8	cloudy	J. J. Neary.
Sacramento, California	29.71	754.6	29.78	756.4	50.5	10.3	96	sw.	8	3.6			10 n		sw	0.09	2.3	light rain	J. A. Barwick
St. Louis, Missouri	29.31	744.5	29.97	761.2	38.7	3.7	100	e.	6	2.7			10n;fg			0.02	0.5	heavy rain	J. H. Weber.
St. Michael, Fort, Alaska	30.37	771.4	30.41	772.4	26	— 3.3	100	s.			2		10 s			0	0	cloudy	Fred. H. Clarke
St. Paul, Minnesota	29.30	744.2	30.22	767.6	15.0	— 9.4	81	n.	2	0.9			10 s			0.11	2.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.34	745.2	30.31	769.9	— 4.9	—20.5	75	s.	5	2.2			10 n			inap.	inap.	light snow	C. B. Dilley.
Salt Lake City, Utah	25.35	643.9	29.91	759.7	32.3	0.2	62	nw.	1	0.4			10 s			0	0	cloudy	J. Craig.
San Diego, California	29.85	758.2	29.92	760.0	54.8	12.7	91	se.	7	3.1			10 n		s.	0.32	8.1	light rain	F. R. Day.
Sandusky, Ohio	29.53	750.0	30.25	768 3	25	— 3.9	73	ne.	13	5.8			10 s			0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.25	768.3	30.28	769.1	35.1	1.7	89	ne.	16	7.2			10 s			0.06	1.5	cloudy	V. P. Chappel.
Sanford, Florida	30.18	766.6	30.23	767.8	52.1	11.2	93	n.	4	1.8		0	fg.			0	0	clear	J. B. Marbury
San Francisco, California	29.72	754.9	29.79	756.7	52.0	11.1	92	W.	5	2.2			10 n		W.	0.60	15.2	light rain	N. Gorom.
Savannah, Georgia	30.18	766.6	30.26	768.6	48.5	9.2	95	n.	2	0.9		0	fg.			0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.22	665.0	30.07	763.8	— 5	—20.6	83	e.	2	0.9		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.78	756.4	29.96	761.0	67.6	19.8	79	s.	7	3.1			10 s		s.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	30.19	766.8	30.26	768.6	28.5	— 1.9	77	ne.	3	1.3		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	30.23	767.8	30.27	768.8	54.5	12.5	91	W	1	0.4		5 ck	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.54	699.5	29.67	753.6	30.2	— 1.0	85	e.	8	3.6			10 s			0.21	5.3	cloudy	D. Moore.
Springfield, Illinois	29.28	743 7	30.01	762.2	36.0	2.2	92	ne.	9	4 0			10n;fg			0.04	1.0	light rain	T. B. Jennings.
Stockton, Fort, Texas	26.87	682 5	30.00	762.0	52.0	11.1	74	sw.	3	1.3		0	6 s			0	0	fair	J. W. Byram.
Tatoosh Id., Wash. Ter	29.51	749.5			31.3	— 0.4	74	e.	24	10 7		0	0			0.30	7.6	clear	R. Connor.
Thomas, Camp, Arizona	27.20	690.9	30.03	762.7	45	7.2	93	calm			0	0	9 s			1.71	43.4	cloudy	R. O. Lord.
Toledo, Ohio	29.50	749.3	30.24	768.1	23.2	— 4.9	85	ne.	15	6.7			10 s		ne.	inap.	inap.	cloudy	A. Buell.
Unalashka, Alaska	30.39	771.9	30.41	772.4	39	3.9	65	se.	24	10.7			10 s		se.	0.01	0.3	cloudy	Samuel Applegate.
Vicksburg, Mississippi	29.84	757.9	30.11	764.8	65	18.3	90	se.	6	2.7			10 s		w.	0	0	cloudy	C. Dill.
Washington, D. C.	30.13	765.3	30.25	768.3	37.2	2.9	87	n.	2	0.9		5 cs	4 s	nw.		0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.82	655.8	29.94	760.5	21.5	— 5.8	100	e.	4	1.8			10 s			0	0	cloudy	F. H. Brandenburg
Wilmington, N Carolina	30.24	768.1	30.30	769.6	54.0	12.2	93	nw.	2	0.9		6 ck	8ks;ak			0	0	cloudy	L. H. Albrecht.
Yankton, Dakota	28.82	732.0	30.24	768.1	10.7	—11.8	77	ne.	7	3.1			10 s			0.01	0.3	cloudy	E. H. Thompson.
Yuma, Arizona	29.74	755.4	29.89	759.2	49.6	9.8	94	calm	0	0		0	1 s		sw.	0.52	13.2	clear	W. S Delano.
Sub-series.																			
Behringsland, Kamchatka	29.63	752.6	29.65	753.1	17.4	— 8.1	97	e.	5	2.2		0	7 k			inap.	inap.	fair	George Cheruick.
Bluefields, Nicaragua, C.A.					73	22.8		n			4		10 n		n.	0.64	16.3	raining	W. H. Jackson.
Bogota, U. S. C.	21.96	557.9			53.6	12.0	83	n.	2	1			10 k		ne.	0	0	covered	Joaquin Gomez.
Chimo, Fort, Ungava	30.12	765.0	30.28	769.1	—27	—32.8	100	sw.	18	8.0		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.05	763.3	66.4	19.1	93	n.	2	0.9		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	77	25.0	86	e.			2	4 c	3 s	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.35	745.5	29.91	759.7	80	26.7	85	calm			0		10 ks		s.	0	0	cloudy	Francisco J. Olsner s.
Rivas, Nicaragua, C. A.					73	22.8	88	ne.			2		10 n		ne.	0	0	cloudy	Earl Flint.
York Factory, B. A.	29.95	760.7	30.02	762.5	—35.0	—37.2		nw.	22	9.8		0	1 s		nw.	0	0		Portescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.90	759.4	29.91	759.7	76.3	24.6	88	n.	13.0	5.8		0	4 k		n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.85	758.3	29.92	760.0	74.8	23.8	85	n.			4	0	4 ks		n	0	0	fair	Antonio Fabro.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic																		
S. S. Alvo, N. 23° 28′, W. 74° 20′ *	30.21	767.3	72	22.2		e.			5–6		3		ene.	0	0	sm'h	e.	fine.
S. S. Ailsa, Port au Prince, Hayti, W.I			73.8	23.2	85	ene.			1		0			0	0	sm'h		fine.
S.S. Arizona, N. 50° 28′, W. 27° 30′	30.06	763.5	53	11.7		sw.			6		10		w.	12 h'r	12 h'r	high	sw.	rainy.
Schr. Arthur Burton, N. 31° 00′, W. 79° 35′†	30.29	769 4				se.			1		3		calm	0	0	mod.	ne.	fine.
S. S. Alps, Mayagues, Porto Rico. W. I*†	30.10	764.5	79	26.1		nne.			2		5		nne.	rain	rain	short		
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I†	30.08	764.0	66	18.9		nne.			2		0			0	0			clear.
S. S. Anchoria, N. 41° 59′, W. 61° 31′ †	30.51	774.9				ene.			4		8		e.	0	0	sm'h		cloudy.
S. S. Circassian, N. 55° 32′, W. 7° 15′	30.15	765.8	47	8.3	100	sw.			4		10		sw.			4	wsw.	rainy.
S. S. Caracas, Puerto Cabello, Venezuela *†	30.00	762.0	76.5	24.7	86	sw.			1		2			0	0	light	nne.	fine.
S. S. Canada, (Fr) N. 49° 32′, W. 17° 01′	30.51	775.0	50	10		w.			3		n.		w.	0	0	r'gh	w.	cloudy.
S. S. Chalmette, Algiers, La *†	30.07	763.8	61	16.1		se.			1					0	0			foggy.
S. S. Devonia, N. 55° 26′, W. 9° 35′†	30.24	768.1	48	8.9		sw.			5		10		sw.	7 h'r	7 h'r	h'vy	w.	misty.
S. E. J. Spicer, N 42° 40′, W. 26° 16	30.55	776.0	54	12.2	87	ne.			2		10		ne.	0	0	mod.	ne.	cloudy.
S. S. England, N. 42° 02′, W. 60° 58′						e.			3		10		e.	0	0	sm'h		cloudy.
S. S. Grecian, Glasgow, Scotland	30.19	766.8	56	13.3	87	wsw.			4		8		wsw.	2 h'r	2 h'r			cloudy.
Bg. George. N. 34° 56′, W. 73° 48′ *†	30.34	770.6				ssw.			2		2			0	0	sm'h		hazy.
S. S. Hermann, N 46° 38′, W. 40° 00′	30.31	769.9	43.5	6.4	74	wnw.			4		8		w.	4 h'r	4 h'r	mod.	wnw.	cloudy.
S. S. Holland, N. 42° 22′, W 62° 47′			37	2.8		ene.			3		10		wsw.	0	0	sm'h		cloudy.
S. S. Iowa, N. 51° 07′, W. 14° 14′			52	11.1		sw.			5		7		sw.	1 h'r	1 h'r	long	wnw:	fair.
Bg. L. & W. Armstrong, N. 22° 25′, W 68° 38′*†	30.20	767.1				ene.			2		5		ne.	1 h'r	1 h'r	mod	nne.	showery.
S. S. Lone Star, N. 27° 44′, W. 87° 19′*†	30.22	767.6	71	21.7		ese.			2		0			0	0	sm'h		clear.
S. S. Main, N. 49° 51′, W. 6° 37′	30.54	775.7	51.8	11.0		ssw.			2		3		ssw.	0	0	sm'h	sw.	fair.
S. S. Mentmore, N. 51° 28′, W. 19° 44′ *†	30.28	769.1				wsw.			7		10			4 h'r	4 h'r	mod		cloudy.
S. S. Marengo, N. 50° 12′, W. 15° 53′*†	30.50	774.7	52	11.1		wsw.			6		8		wsw.	2 h'r	2 h'r	long	wnw.	raining.
S. S. Neckar, N. 49° 29′, W. 22° 19′	30 33	770.4	53.0	11.7	86	wnw.			3–5		4		nw.	0	0	mod.	nw.	fair.
S. S. Orinoco, Sandy Hook, N. J†	30.26	768.6	41	5.0		ne.			3		1		ne.	0	0			clear.
S. S. Oregon, (Br) N. 45° 07′, W. 58° 58′ *	30.52	775.2	20	— 6.7		nw.			1		9		nw.	0	0	long	se.	cloudy.
S. S. Ohio, (Am.) N. 44° 32′, W. 46° 00′			35	1.7	90	n.			2		8		ene.	0	0	mod.	ese.	light haze.
S. S. Pennsylvania, Liverpool, Eng †	30.29	769.4	47	8.3	85	w.			3		5		wsw.	0	0			fair.
S. S. Polynesian, N. 43° 30′, W. 53° 41′	30.54	775.7	34	1.1		calm			0		0			0	0	sm'h		clear.
S. S. Rhein, N. 47° 18′, W. 40° 41′						nw.			6		6		n.	0	0	high	nw.	fair.
S. S. Rhynland, Antwerp, Belgium	30.46	773.7	50	10.0	72	s.			2		2		s.	0	0			clear.
S. S. Republic, N. 49° 05′, W. 34° 49′*†	30.12	765.0	47	8.3		nw.			6		6		nw.	shr's	shr's	r'gh	var.	fair.
S. S. Scandinavian, N. 54° 22′, W. 16° 26′	30.06	763.5	50	10.0		sw.			6		10		sw.	2 h'r	2 h'r	high	sw.	drizzling.
S. S. Switzerland, N. 49° 58′ W. 7° 06′ *†	30.56	776.2				w.			2		0			0	0	long	w.	clear.
S. S. Samaria, N. 49° 32′, W. 29° 30′	29.96	761.0	54	12.2		sw.			6		10		wsw.	2 h'r	2 h'r	h'vy	wsw.	misty.
S. S. Scythia, N. 51° 17′, W. 14° 12′	30.44	773.2	53	11.7		sw.			3		8		sw.	0	0	h'vy	wnw	hazy.
S Salisbury, N. 19° 03′, W. 60° 05′	30.04	763.1	75.4	24.1	60	ne.			2		4 k		n;ne	0	0	long	ne.	fair.
Bk. Tuck Sing, N. 24° 31′, W. 80° 55′†*	30.14	765.5				ene.			3		2		ene.	1 h'r	1 h'r	sm'h		clear.
S. S. Zeeland, N. 40° 33′, W. 67° 46′ *†.	30.40	772.1	36	2.2		se.			3		1c		se.	10 h'r	10 h'r	sm'h		drizzling.
S. S. Belgenland, N. 41° 49′, W. 61° 18′			39	3.9	90	e.			3				e.	0	0	sm'h		overcast.
S. S. State of Georgia, N. 44° 45′, W. 50° 14′†	30.48	774.2	33	0.6		wnw.			4		5		n.	0	0	long	ese.	fair.
Schr. Adda Doane, Kingston, Jamaica, W.I†	30.06	763.5				calm			0		2		e.	0	0			clear.
Bg. Alcira Maracaybo, Venezuela*	30.01	762.2	78	25.6		nne.			2		3		ne	0	0			clear.
S.S. Britannic, N. 40° 13′, W. 73° 13′ *†	30.25	768.3	40	4.4		nne.			2		6			0	0.	sm'h		d. clouds.
Bk. Chas. Stewart, N. 35° 07′, W. 13° 43′*†.	30.10	764.5				s.			5		10		s.;e.	now	snow	r'gh	n.	cloudy.
Bk. Cato, N. 39° 07′, W. 67° 15′ †	30.36	771.1	55	12.8	81	s.			2		1		se.	0	0	sm'h	e.	fair.
S. S. Donau, N. 40° 37′, W. 69° 02′	30.30	769.6	42.8	6.0		se.			2		10			2 h'r	2 h'r	sm'h	se.	raining.
S. S. Gellert, N. 40° 41′, W. 61° 51′	30.46	773.7	41	5.0		e.			1		10			6 h'r	6 h'r			overcast.
S. S. Gallia, N. 42° 00′, W. 62° 47′			43	6.1		ne.			3		10			0	0	sm'h		overcast.
S. S. Labrador, N 46° 49′, W. 44° 50′ *†	30.32	770.0	33.8	1		nw.			4		10?		nw.	0	0	r'gh	se.	clear.?
S. S. Habsburg, N. 48° 09′. W. 29° 13′						ssw.			7		10		sw.	2 h'r	2 h'r	h'vy	var.	raining.
S. S. New York. N 25° 37′ W. 80° 00′ *†	30.20	767.1	75	23.9		e.			3		3		ese.	0	0	sm'h		clear.
S. Parker M. Whitmore, N. 36° 16′, W. 36° 52′*†	30.42	772.7	64	17.8		ese.			3		3		e.	0	0	sm'h		fair.
S. S. Rialto, N. 49° 22, W. 10° 48′ †	30.54	775.7	57	13.9		ssw.			2		2		s.	0	0	sm'h	n.	fine.
Ft. Saga, Hampton roads, Va †.	30.24	768.0	43	6.1		var.			0–2		6		wsw.	5 h'r	5 h'r	sm'h		raining.
S. S. Virginian, N. 42° 59′, W. 52° 00′			31	— 0.6		e.			3		0			0	0	sm'h		clear.
S. S. Wyoming, N. 43° 22′, W. 56° 56′	30.53	775.4	33	0.6		w.			1		8		w.	0	0	long	se.	cloudy.
S. S. W. A Scholten, N. 45° 39′, W. 50° 53′	30.51	774.9	30.2	— 1.0	90	nw.			4		8		nw.	3 h'r	3 h'r	3	wnw.	squally.
S. S. Westphalia, N. 44° 32′, W. 48° 05′	30.39	771.9	36	2.2	100	e.			4		6		n.	0	0	mod.	nnw.	fair.
S. S. St. Laurent, N. 43° 45′, W. 51° 20′			59.0	15.0		nnw.			2		1		s.	0	0	sm'h		clear.
S. S. Crescent City, N. 14° 40′, W. 76° 45′*†	29.99	761.7	70	24.4		ene.			5								ene.	fine.
S. S. Nurnberg, N. 37° 17′ W. 73° 16′	30.28	769.1	62.6?	17.0?		calm			0		7		s.	0	0	sm'h	se.	fair.
U. S. Navy Yard, Portsmouth, N. H.*	30.42	772.7	20	— 6.7	85	ne.	18	8.0			10		ne.	0	0			cloudy
U. S. S. Alliance, Porto Plata, San Domingo, W.I	30.10	764.5	78	25.6	85	se.			2		8		se.	light	light			cloudy.
U. S. S. Kearsarge, Civita Vecchia, Italy	30.41	772.4	58	14.4	64	n.			3		0							clear.
U. S. S. Lancaster, Naples, Italy	30.38	771.6	58	14.4	100	w.			2		5		w.	0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.31	769.9	33	0.6	89	nne.			1		10					sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.37	771.4	58	14.4	70	ene.			1		0					sm'h		clear.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.05	763.3	73	22.8	72	e.			1		0			0	0	sm'h		clear.
U. S. S. Tennessee, N 25° 17′, W. 87° 25′	30.17	766.3	75	23.9	77	ene.	10	4.5			2		ne.	0	0			fair.
U. S. S. Trenton, N. 40° 47′, E. 14° 08′	30.39	771.9	64	17.8	67	ene.			2		2		calm			sm'h		hazy
U. S. S. Vandalia. Curacoa, W.I	29.99	761.7	77	25.0	82	e.			1		2		calm					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.38	771.6	60	15.6	76	ne.			1		10		ne.					d. clouds.
H. M. S. Alecto, N. 12° 33′, W. 17° 20′	29.87	758.7	73	22.8		n.			2		9					4	nnw.	d. clouds.
H. M. S. Boadicea, N 2° 49′, W. 16° 08′	29.86	758.4	82	27.8	91	calm			0		8					sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.25	768.3	62	16.7	66	n.			4		4		nne.					d. clouds.
H. M. S. Himalaya, N 42° 04′, W. 10° 35′			59	15.0	82	ene.			6		6		ene.			2	nne.	d. clouds.
H. M. S Monarch, N. 36° 50′, E. 15° 28′	30.34	770.6	52	11.1	73	nne.			3		6					1	nne.	d. clouds.
H. M. S. Minotaur, Cagliari, Sardinia	30.43	772 9	56	13.3	90	calm			0		0							misty.
H. P. M. S. Douro, Ajuda, W. Africa	29.88	758.9	86.9	30.5	82	se.			2					0	0	1	sw.	
S. S. Lord Clive, N. 48° 21′, W. 37° 51′						wnw.			5		7		wnw.	12 h'r	12 h'r	mod.	var.	cloudy.
S. S. Nova Scotian, Mersey river, Eng	30.38	771.6	50	10.0		ssw.			4		8		sw.	0	0			cloudy.
S. S. Prussian, Boston, Mass	30.36	771.1	28	—2.2		nne.			4		10		nne.					snowy.
S. S. Dorian, N. 42° 16′, W. 61° 30′	30.52	775.2	40	4.4		ene.			3		10		e.	0	0	long	se.	overcast.
S. S. Carroll, Halifax, N. S *†	30.65?	778.5?	24?	—4.4?		ese.			1		10		ese.	light	light			light snow.
S S. Llandaff City, N. 40° 29′, W. 67° 23′*†	30.32	770.1	44	6.7		e.			4		8		e.	0	0	sm'h		cloudy.
S. S. Bothnia, N. 45° 03′, W. 41° 22′	30.30	769 6	51	10.6	93	n.			4		10		n.	0	0	mod.	sse.	gloomy.
S. S. Hevelius, N. 47° 04′. W. 10° 00′ *†	30.56	776.2	49	9.4		se.			4		3		sse.	0	0	long	nw.	clear.
S. S. Rosse, N. 42° 54′, W. 9° 50′			57	13.9	61	ene.			5		3		s.	0	0	sm'h		clear
S. S. Archimede, (It) Palermo, Sicily †.	30.44	773.2	54	12.2		ene.			2		3		ene.	0	0			clear
S. S. Dominion, N 50° 04′, W. 24° 36′*†.	30.15	765.8	54	12.2	100	ssw.			6		10		ssw.			mod.	ssw.	cloudy.
S. S. Denmark, New York, N. Y †	30.27	768.8	36	2.2	90	n.			2		8		calm	shr's	shr's			smoky
S. S. Erin, N. 49° 53′, W. 5° 01′ *.	30.49	774.4	48	8.9		w.			3		1		w.	0	0	sm'h		clear
S. S. Greece, N. 49° 11′, W. 22° 12′ †.	30.38	771.6	54	12.2		ssw.			4		10		ssw.	0	0	sm'h	ssw.	cloudy.
S. S. Leipzig, N. 40° 36′, W. 9° 51′*.	30.27	768.8	56.5	13.6	97	e.			4		5?		e.	0	0	long	e.	cloudy.?
S. S. City of Augusta, N. 33° 29′, W. 77° 34′*†.	30.24	768.1				se.			6		8		se.	0	0			cloudy.
S. S. Muriel, N. 38° 00′, W. 73° 04′	30.28	769.1	57	13.9		w.			3		5		nw.	0	0	sm'h		fair.
S. S. Waesland, N. 49° 52′, W. 19° 00′	30.35	770.9	54	12.2		ssw.			6		6		w.	½ h'r	½ h'r	long	wnw.	fair.
S. S. Westernland, N. 44° 13′, W. 51° 46′	30.53	775.4	34	1.1	79	nw.			3		4		nw.	0	0	mod.	w.	fair.
S. S. Zaandam, New York, N. Y					73	e.			4					0	0			foggy.
S. S. State of Nebraska, N. 49° 22′, W. 39° 30′ *†	30.09	764.3	44	6.7		w.			7		6		w.			mod.	w.	d. clouds.
S. S. State of Nevada, N. 55° 27′ W. 10° 47′*†	30.18	766.6	50	10.0		wsw.			6		10		wsw.	4 h'r	4 h'r	high	wnw.	hazy.
S. S. Saxon, N. 39° 08′, W. 75° 15′			35	1.7		calm			0		10			0	0			threatening.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
U. S. Celtic, Liverpool, Eng*†..	30.34	770.6	52	11.1	.....	sw.	.....	.....	4	.....	5	.....	wsw.	3 h'r	3 h'r	.....	.....	fine.
S. S. Lepanto, Suez Canal, Egypt	30.13	765.3	74?	23.3?	.....	n.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Romano, N 40° 02′, W. 53° 51′	30.52	775.2	54	12.2	.....	ene.	.....	.....	3	.....	2	.....	ne.	1 h'r	1 h'r	sm'h	.....	clear.
S. S. Salerno, N. 44° 19′, W. 49° 05′ †	30.45	773.4	30	— 1.1	.....	wnw.	.....	.....	1	.....	5	.....	wnw.	0	0	sm'h	wnw.	fine.
S. S. Antonio Lopez, Cadiz, Spain	30.13	765.3	.....	.....	.....	e.	.....	.....	6	3 c	.....	.....	.....	4 h'r	4 h'r	.....	.....	hazy.
Bgt. Achsah, Clementsport, N. S..	.....	.....	20	— 6.7	.....	ene.	.....	.....	1	.....	8	.....	ene.	2 h'r	2 h'r	.....	.....	cloudy.
Bk. Adelaide, N. 31° 03′, W. 43° 21′ *†	30.38	771.6	70	21.1	.....	sse.	.....	.....	6	.....	4	.....	se.	0	0	r'gh	ese.	fair.
Bk. Benjamin Dickerman, N. 24° 00′, W. 82° 30′*†	30.20	767.1	74	23.3	.....	nne.	.....	.....	5	.....	8	.....	ne.	0	0	short	ne.	cloudy.
Bk. Bayonnaise, N. 35° 49′ W. 11° 17′	.....	.....	59.0	15	.....	ese.	.....	.....	4	.....	6	.....	e.	0	0	sm'h	se.	fair.
Bk. Celestina, N. 2° 56′, W. 24° 11′ *†	29.95	760.7	.....	.....	.....	calm	.....	.....	0	.....	3	.....	.....	1 h'r	1 h'r	light	var.	
S. Dora, N. 59° 04′, W. 28° 10′ †	29.09	738.9	40.1	4.5	.....	wsw.	.....	.....	8–9	.....	8	.....	wsw.	2 h'r	2 h'r	long	w.	heavy squ'lls
Schr. Edith R. Seward, N. 35° 35′, W. 72° 10′†	30.30	769.6	56	13.3	.....	ssw.	.....	.....	2	.....	4	.....	s.	0	0	sm'h	ssw.	clear
Bk. Gloire, N. 22 30′, W. 40° 55′ *	30.11	764.8	68	20.0	.....	ne.	.....	.....	5	.....	4	.....	ene.	0	0	short	ene.	clear.
Bk. George Davis, N. 31° 55′, W. 78° 55′*†	30.27	768.8	.....	.....	.....	sse.	.....	.....	4	.....	.....	.....	se.	½ h'r	½ h'r	.....	e.	d. clouds.
S. Hedwig, N. 40° 11′, E. 18° 44′	30.32	770.0	57.2	14.0	98	n.	.....	.....	3	.....	4	.....	n.	0	0	1	nw.	
Bk. Hattie G. McFarland, Ship Island, Miss†	30.15	765.8	63	17.2	.....	se	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	foggy.
S. Henry, N. 38° 19′, E. 4° 15 *..	30.42	772.7	57.4	14.1	.....	ene.	.....	.....	4	5 ck	0	.....	.....	.....	.....	3	ene.	fair.
Schr. John L. Thomas, South Hobbies Cays, C. A †....	29.98	761.5	77	25.0	82	nne.	.....	.....	4	.....	1	.....	ne.	0	0	mod.	ne.	clear.
Bg. John Welsh, jr, Mobile Bay, Ala †	30.22	767.6	.....	.....	.....	se.	.....	.....	2	.....	1	.....	se.	.....	.....	.....	.....	clear.
Bg. Lillian, N. 21° 56′, W. 59° 00′†	30.09	764.3	76	24.4	.....	se.	.....	.....	1	.....	2	.....	calm	0	0	mod.	var.	clear.
S. S. Laurel, Key West, Fla †	30.14	765.5	69	20.6	.....	ne.	.....	.....	3–4	.....	3	.....	ne.	0	0	.....	.....	clear.
Bg. L. F. Munson, N. 39° 55′, W. 61° 30′*†	30.50	774.7	50	10.0	.....	ne.	.....	.....	4	.....	8	.....	w.	0	0	long	e.	light rain.
S. S. Madrid, Shields, Eng†	30.21	767.3	52	11.1	86	wsw.	.....	.....	5	.....	8	.....	wsw.	0	0	.....	.....	fair.
Schr. Minnie A. Bonsall, Jacksonville, Fla	.....	.....	.....	.....	.....	se.	.....	.....	1	.....	.....	.....	sw.	0	0	.....	.....	fair.
Schr. Norena, N. 18° 20′, W. 64° 15′	.....	.....	.....	.....	.....	ne.	.....	.....	1	.....	3	.....	nne.	4 h'r	4 h'r	light	ne.	clear.
S. Stephen D. Horton, N. 48° 45′ W. 18° 45′†	30.39	771.9	.....	.....	.....	sw.	.....	.....	4	.....	5	.....	w.	0	0	mod.	nw.	fair.
Bk. Silica, N. 41° 00′, W. 40° 10 *	30.34	770.6	.....	.....	.....	nne.	.....	.....	6	.....	10	.....	.....	rain	rain	r'gh	var.	light rain.
Bg. Teneriffe, N. 26° 58′, W. 72° 50′	30.25	768.3	.....	.....	.....	ene.	.....	.....	5	.....	1	.....	ene.	0	0	3	ene.	
S. S. City of Alexandria, Progreso Roads, Mexico*†	30.04	763.0	73	22.8	.....	e.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	ene.	d. clouds.
S. S. Schiedam, N. 42° 36′, W. 55° 05′ *	30.48	774.2	42	5.6	.....	var.	.....	.....	2–3	.....	.....	.....	.....	.....	.....	sm'h	.....	
S. S. Strathleven, N. 35° 50′, W. 66° 40′*	30.39	771.9	59.5	15.3	62	calm	.....	.....	0	.....	9	.....	ese.	.....	.....	2	se.	gloomy.
District No. 2—South Atlantic.																		
U. S. S. Pinta, S. 34° 00′ W. 55° 52′	29.97	761.2	66	18.9	64	sw.	.....	.....	2	.....	5	.....	sw.	.....	.....	sm'h	.....	fair.
H. M. S. Amethyst, Montevideo, Uruguay	29.90	759.4	66.5	19.2	76	sw.	.....	.....	3	.....	1	ssw.	.....	.....	.....	2	ssw.	blue sky
H. M. S. Opal, Simons Bay, Cape Colony	29.94	760.5	72	22.2	92	se.	.....	.....	3	.....	3	se.	.....	.....	.....	.....	.....	d. clouds.
H. P. M. S. Benbo, S. 8° 02′, E. 12° 31′	29.87	758.6	83.3	28.5	85	se.	.....	.....	2	.....	3	.....	se.	0	0	2	.....	blue sky.
S. S. George S. Homer, S. 55° 08′, W. 61° 35′*†	29.51	749.5	.....	.....	.....	sw.	.....	.....	1	.....	10	.....	w.	4 h'r	4 h'r	mod.	s.	rain & fog.
Bk Godeffroy, S. 22° 19′, W. 27° 10′	29.97	761.2	78.8	26.0	70	nne.	.....	.....	4	cs	5 k	.....	ne.	rain	rain	mod.	w.	fair.
S. Henry Failing, S. 56° 06′, W. 66° 20′ *†..	29.45	748.0	52	11.1	66	wnw.	.....	.....	3	.....	5	.....	s.	7 h'r	7 h'r	sm'h	ssw	showery.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†...	30.10	764.5	80	26.7	.....	wsw.	.....	.....	4	.....	2	.....	wsw.	0	0	.....	.....	clear.
Bkt. Levanter, S. 34° 29′, W. 53° 33′*	29.97	761.2	72	22.2	.....	sw.	.....	.....	3	.....	2	.....	s.	0	0	mod.	ssw.	clear.
S. St. David, S. 18° 01′, W. 28° 39′*†	30.05	763.3	82	27.8	79	ne.	.....	.....	4	.....	4	.....	ene.	1 h'r	1 h'r	mod.	ne.	fine.
Bk. Winifred, S. 22° 23′, W. 39° 08′*†	29.90	759.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	sse.	clear.
S. David Stewart, S. 1° 29′, W. 39° 06′ †	29.74	755.4	78	25.6	.....	var.	.....	.....	5	.....	5?	.....	n	5 h'r	5 h'r	mod.	nne.	overcast ?
S. S. Feniers, S. 29° 52′, W. 47° 01′	29.91	759.7	72.2	22.3	70	s.	.....	.....	6	cs	9 k	sw.	.....	1.14	29.0	4	sw.	gloomy.
S. Orealia, S. 20° 56′, W. 28° 27′*.	29.90	759.4	.....	.....	.....	ne.	.....	.....	5	.....	5	.....	ne	0	0	mod.	sw.	fair.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 20° 06′, E. 147° 36′	30.10	764.5	75	23.9	77	ene.	.....	.....	3	.....	5	.....	se.	.....	.....	sm'h	.....	fair.
U. S. S. Essex, Canton, China	30.12	765.0	45	7.2	68	nne.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Juniata, Shanghai, China	30.25	768.3	32	0.0	79	se.	.....	.....	1	.....	2	.....	.....	snow	snow	.....	.....	clear.
U. S. S. Monocacy, Shanghai, China	30.26	768.6	30	— 1.1	89	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Palos, Tientsin, China	30.20	767.1	25	— 3.9	.....	w.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Ranger, Cape Desolado, Nicaragua	29.96	761.0	75	23.9	68	ene.	.....	.....	4	.....	0	.....	.....	0	0	mod.	.....	clear.
H.M.S. Audacious, Victoria harbor, Hong Kong, China	.....	.....	56	13.3	81	nnw.	.....	.....	2	.....	1	nw.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, 24° 26′, E. 118° 05′	30.00	762.0	57	13.9	75	ene.	.....	.....	1–4	.....	4	nw.	.....	.....	.....	sm'h	.....	squally.
H. M. S. Champion, Shanghai, China	30.31	769.9	33	0.0	89	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
H. P. M. S. Tamega, Macao, China	30.13	765.2	50.0	10.0	74	n.	.....	.....	1	.....	0	.....	.....	8 h'r	8 h'r	.....	.....	blue sky.
S. S. Oceanic, N. 37° 07′, E. 147° 30′	30.05	763.3	44	6.7	68	e.	.....	.....	3	.....	4	.....	e.	0	0	3	n.	clear.
S. S. Columbia, N. 38° 52′, W. 123° 50′ *†	29.75	755.6	48	8.9	70	nw.	.....	.....	3	.....	9	.....	nw.	.....	.....	sm'h	nw.	cloudy.
S. S. Oregon, Portland, Oregon†	29.66	753.4	30	2.2	90	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Alameda, N. 28° 06′, W. 147° 50′ †	29.84	757.9	66	18.9	.....	nne.	.....	.....	3	.....	7	.....	nne.	0	0	mod.	ne.	fair.
S. S. Ancon, San Francisco, Cal.	29.76	755.9	53	11.7	86	sw.	.....	.....	2	.....	9	.....	sw.	1 h'r	1 h'r	.....	.....	cloudy.
S. S. City of Chester, San Francisco, Calif	29.81	757.2	51	10.6	100	calm	.....	.....	0	.....	10	.....	.....	hv'y	hv'y	.....	.....	
S. S. Queen of the Pacific, New Tacoma, Wash. Ter...	29.63	752.6	35	1.7	80	nne.	.....	.....	1	.....	4?	.....	n.	11 h'r	11 h'r	.....	.....	cloudy.?
S. S. State of California, San Francisco, Cal. †	29.82	757.4	50	10.0	100	se.	.....	.....	2	.....	10	.....	se.	.....	.....	.....	.....	raining.
S.S. City of Rio de Janeiro, N 30° 05′, E. 152° 08′†.	30.05	763.3	.....	.....	.....	sw.	.....	.....	3	.....	4	.....	w.	.....	.....	mod.	w.	fair.
S. S. Colima, N. 28° 40′, W. 116° 41′†	29.98	761.5	60	15.6	100	var.	.....	.....	2	.....	3	.....	wnw.	0	0	mod.	w.	clear.
S. S. Granada, N. 12° 58′, W. 89° 05′†	29.88	758.9	79	26.1	58	ne.	.....	.....	4	.....	0	.....	.....	0	0	light	ne.	clear.
S. S. San Blas, N. 8° 49′, W. 79° 29′ †	29.85	758.2	75	23.9	90	n.	.....	.....	6	.....	9	.....	nw.	0	0	mod	n.	cloudy.
S. Carondelet, N. 9° 14′, E. 135° 22′ *†	29.95	760.7	.....	.....	.....	ne.	.....	.....	4	.....	1	.....	ne.	1 h'r	1 h'r	r'gh	ene.	clear.
District No. 4—South Pacific.																		
U. S. S. Hartford, S. 0° 59′, W. 112° 30′	29.87	758.7	77	25.0	95	ese.	.....	.....	3	.....	5	.....	e.	0	0	sm'h	ese.	fair.
U. S. S. Onward, Callao, Peru*†	30.00	762.0	71	21.7	95	se.	.....	.....	2	.....	10	.....	se.	.....	.....	mod.	w.	cloudy
U. S. S. Wachusetts, Callao, Peru.*	29.95	760.7	71	21.7	100	se.	.....	.....	1	.....	8	.....	calm	.....	.....	sm'h	.....	hazy.
H. M. S. Espeigle, S. 43° 37′, E. 172° 44′	29.84	757.9	71	21.7	49	n.	.....	.....	3–5	.....	10	.....	.....	.....	.....	.....	.....	overcast.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.20	767.1	65.3	18.5	84	nne.	.....	.....	4	.....	4	.....	.....	.....	.....	sm'h	.....	squally.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	30.11	764.8	58	14.4	54	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Australia, S. 35° 48′, E. 174° 38′	30.41	772.4	66	18.9	94	n.	.....	.....	5	.....	3	.....	n.	0	0	mod	n.	clear.
S. S. Zealandia, S. 8° 38′, W 169° 11′	29.86	758.4	82	27.8	75	e.	.....	.....	5	.....	5	.....	ese.	0	0	mod.	e.	clear.
S. Grecian, S. 56° —′, W. 74° 21′†...	29.42	747.3	46	7.8	77	w.	.....	.....	2	.....	6	.....	sw.	2 h'r	2 h'r	sm'h	w.	rainy.
S. Ismir, S. 34° 17′, W. 90° 54′*†	30.40	772.1	.....	.....	.....	ese.	.....	.....	1	.....	1	.....	se.	0	0	sm'h	.....	clear.
S. St. Francis, S. 4° 00′, W. 110° 30′ *†	29.90	759.4	75	23.9	81	se.	.....	.....	5	.....	3	.....	ese.	0	0	mod.	se.	clear.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.81	757.2	70	21.1	.....	n.	.....	.....	1	.....	8	n.	.....	.....	.....	2	n.	
H. M. S. Sylvia, off Sandy Point, Patagonia	29.45	748.0	49	9.4	78	w.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, S. 28° 31′, E. 40° 26′	29.75	755.6	78	25.6	78	wsw.	.....	.....	3	.....	2	.....	wsw.	2.34	59.4	mod.	wsw.	clear.
H. M. S. Euryalus, Suakin, Egypt	29.95	760.7	70	24.4	77	n.	.....	.....	5	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tourmaline, Tamatave, Madagascar	29.81	757.2	84	28.9	79	ne.	.....	.....	3	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Port Phillip, S. 35° 10′, E. 121° 07′	29.80	756.9	69	20.0	85	ese.	.....	.....	2–3	.....	.....	.....	.....	.....	.....	.....	s.	gloomy.
S. S. Radnorshire, Suez, Egypt*†.	30.18	766.6	.....	.....	.....	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
H. M. S. Magpie, N. 6° 18′, E. 99° 37′	29.85	758.2	83.1	28.4	75	ssw.	.....	.....	1	.....	2	sw.	.....	.....	.....	.....	.....	d. clouds.

International Chart I. February 4, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 5, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.21	767.4	70.5	21.4	80	w.			1		6			0	0	cloudy	Roziere.
Algiers			30.38	771.6	58.3	14.6	72	e.			3		10			0	0	covered	Thève.
La Galle			30.41	772.5	59.0	15.0	76	ne.			4		1			0	0	very fair	Fonfrède.
Tunis			30.45	773.5	53.6	12.0	76	w.			2		4			0	0		Delord.
Geriville					53.6	12.0	15	se			5		3			0	0	pretty fair	Forfert.
Laghouat			30.39	772.0	59.4	15.2	93	nne.			3		0			0	0	clear	Abraham.
Biskra			30.46	773.7	60.1	15.6	64	calm			0		2			0	0	fair	Gouzon.
Australian.																			
Adelaide, South Australia			29.88	758.9	84.0	28.9	18	ne.	12	5.4			2 k			0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.91	759.7	30.10	764.5	57	13.9	76	ssw.	10	4.5			10		s.	0	0	cloudy	Com. J. Shortt, R.N.
Melbourne, Victoria	29.97	761.2	30.06	763.5	65.0	18.3	74	ese.	6	2.7			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.90	759.4	30.47	773.9	45.0	7.2	55	e.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.51	749.6	30.30	769.7	42.1	5.6	79	wsw.	11.9	5.3			10			0.075	1.9		Dr. Wierzbiski
Eperies	29.35	745.4	30.24	768.0	42.3	5.7	58	n.			3	2 cs				0	0		Julius Mikolik.
Gratz	29.16	740.7	30.45	773.5	45.1	7.3	58	sw.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.82	732.0	30.30	769.6	41.5	5.3	71	nw.			4		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	29.11	739.3	30.50	774.7	42.1	5.6	75	nw.			1		7			0	0	fair	The Staff.
Lemberg	29.12	739.7	30.15	765.7	38.8	3.8	72	nw.			5		7			0.102	2.6		Dr. T. Stanecki.
Pola	30.34	770.6	30.45	773.5	45.3	7.4	91	wnw.			4		0			0	0		I. R. Hydrographic Office.
Szathmar	29.80	756.8	30.27	768.9	44.1	6.7	63	nw.			4		3			0	0		Joseph Midlinszky, S. J
Szegedin	30.07	763.7	30.35	771.0	47.8	8.8	63	nw.			2		4			0	0		Karl Stancel.
Trieste	30.38	771.6	30.48	774.1	42.8	6.0	86	calm			0		0			0.004	0.1		Royal Academy.
Vienna	29.73	755.1	30.47	773.9	46.0	7.8	64	w.			3		5			0.016	0.4		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	29.01	737.6	30.50	774.6	37.4	3.0	98	sw.			0.1		4			0.012	0.3		
Brussels	30.28	769.0	30.48	774.3	45.0	7.2	76	ssw.			3		10		w.	0	0	light fog	
Furnes	30.42	772.7	30.44	773.2	46.2	7.9	88	sw.			1		10			0	0		
Maeseyck	30.36	771.2	30.49	774.4	45.9	7.7	82	sw.			1		10			0.012	0.3		
British.																			
Aberdeen	29.93	760.2	30.03	762.7	49.1	9.5	78	sw.	12	5.4			7			0	0	d. clouds	W. Boswell.
Bidston, Liverpool Obs'y			30.29	769.4	49.0	9.4	71	wsw.	15	6.7			9					overcast	John Hartnup.
Bolton, Sharples	29.74	755.4	30.29	769.4	46.4	8.0	86	wsw.	12	5.4			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.87	758.7	30.26	768.6	48.5	9.2	79	sw.			2		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.11	764.8	30.14	765.5	80	26.7	74	ne.			3		6					d. clouds	Corp'l C. McGregor, A.H.C
Cardington					45.5	7.5	92	sw.			0.6		10					overcast	John McLaren.
Chatham, School M. E.	30.24	768.1	30.42	772.7	47.1	8.4	79	w.			1		10					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.22	767.6	30.45	773.4	46.0	7.8	78	wsw.			1		10					overcast	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.77	756.1	30.00	762.0	83	28.3	83	sw.			2		3					d. clouds	J. W. Smith.
Galway, Queen's College	30.18	766.6	30.22	767.6	48	8.9	92	sw.			2		9			0.03	0.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	68.8	20.4	90	e.			5		7					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	30.24	768.1	30.42	772.7	46.5	8.1	85	w.					10					overcast	The Staff.
Guernsey	30.15	765.8	30.46	773.7	45.2	7.3	82	wsw.			1		10					overcast	A. Collenette, F.R.M.S.
Kew, Observatory	30.38	771.6	30.42	772.7	46.5	8.1	84	wsw.	9	4.0			9					d. clouds	The Staff.
Leicester, Museum	30.09	764.3	30.35	770.9	47.3	8.5	86	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.29	769.4	30.37	771.4	59.2	15.1	73	ne.			2		8			0	0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.15	765.8	30.19	766.8	71.0	21.7	75	e.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.17	766.3	30.40	772.1	45.8	7.7	88	sw.			3		10					overcas	The Staff.
Plymouth	30.37	771.4	30.44	773.2	46.5	8.1	86	calm			0		10					showery	John Merrifield.
Sandwick Manse, Orkneys	29.82	757.4	29.93	760.2	44.4	6.9	80						4					gloomy	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.14	765.5	30.20	767.1	42.0	5.6	81	sw.			2		9					d. clouds	W. H. Lyne.
Sheffield	30.00	762.0	30.29	769.4	52.1	11.2	67	ssw.			2		6					d. clouds	W. F. Cooper.
Silloth Rectory	30.17	766.3	30.20	767.1	45.7	7.6	90	sw.			4		8			0.045	1.2	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.29	769.4	47.2	8.4	86	w.	18	8.0			7			0	0	d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					46.8	8.2	86	w.			1.3		10					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.28	769.1	30.30	769.6	48.9	9.4	87	sw.	24	10.7			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	30.02	762.5	30.42	772.7	58.6	14.8	62	nw.	3.7	1.7		0	4 k		nw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.46	773.7	30.50	774.7	3.0	—16.1		calm	0	0			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.43	772.9	30.48	774.2	13	—10.6	100	e.	4	1.8			10 n		calm	0.020	0.5	snowy	H. J. Cundall, C. E.
Chatham, N. B*	30.41	772.4	30.48	774.2	5	—15.0	100	w.	3	1.3			10 n		w.	0.01	0.3	cloudy	G. A. Blair.
Cornwall, Ontario	29.60	751.8	29.81	757.2	14.0	—10.0	92	ne.			2		10 n			0.060	1.5	hailing	Jas. Smith, M. A.
Dalhousie, N. B	30.43	772.9	30.49	774.4	3.0	—16.1		se.			2		10 ks			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.31	769.9	30.33	770.4	4	—15.6	91	e.	5	2.2			10 n					light snow	J. McWilliams
Fort Garry, Manitoba*	29.07	738.4	30.01	762.2	0	—17.8	100	nnw.	7	3.1			10 n			0.18	4.6	fair	James Stewart.
Fredericton, N. B	30.34	770.6	30.41	772.4	9.1	—12.7	98	ne.	2	0.9			10 s			0.040	1.0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B	30.24	768.1	30.29	769.4	29	— 1.7	77	se	16	7.2			10 n		se.	0.23	5.8	cloudy	J. Chipman Seeley
Granton, Ontario	28.46	722.9	29.59	751.6	32.1	0.1	97	calm	0	0			10 n					sleeting	Jas. Grant.
Halifax, N. S*	30.28	769.1	30.42	772.7	21	— 6.1	100	e.	9	4.0			10 n			0.280	7.1	light snow	A. Allison.
Hamilton, Ontario	29.25	742.9	29.66	753.4	32.7	0.4	95	ne.			1	10 cs	0		ne.	0.250	6.3	raining	Geo. Dickson, B. A.
Kingston, Ontario*	29.94	760.5	30.31	769.9	17	— 8.3	83	ne.	9	4.0			10 n			0.03	0.8	hailing	A. P. Knight, M. A.
Little Glace Bay, N. S	30.43	772.9	30.47	773.9	21.5	— 5.8	93	e.	1	0.4		0	0		ne.	0	0	blue sky	O. H. Rigby.
London, Ontario	28.69	728.7	29.62	752.3	32.8	0.4	90	e.			1		10 n					raining	E. B. Reed.
Medicine Hat, N. W. T	27.74	704.6	30.36	771.1	—11	—23.9	67	sw.	3	1.3		0	8 n			0.02	0.5	cloudy	John Ewart.
Minnedosa, N. W. T	27.88	708.1	30.05	763.3	— 8	—22.2	100	n.	15	6.7		hz	0			0.025	0.6	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.74	755.4	29.96	761.0	11	—11.7	96	ne.	2	0.9			10 n			0.04	1.0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.62	752.3	29.86	758.4	13.7	—10.2	93	ene.					10 s			0.20	5.1	overcast	A. McGill, M. A.
Parry Sound, Ontario*	28.90	734.0	29.61	752.1	27	— 2.8	96	e.	8	3.6			10 n		e	0.02	0.5	sleeting	Rev. R. Mosley.
Peterboro, Ontario	28.89	733.8	29.70	754.4	15.6	— 9.1	85	sw.			1		10 kn			0	0	foggy	Wm. O'Connor, M.A.
Port Arthur	29.16	740.7	29.92	760.0	9	—12.8	76	sw.	3	1.3		c	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	28.91	734.3	29.92	752.3	31	— 0.6	100	calm	0	0			10 n			0.35	8.9	light rain	I. Morgan.
Port Stanley, Ontario	28.95	735.3	29.61	752.1	33	0.6	88	e.	8	3.6			fg.			0.47	11.9	light rain	M. Payne.
Qu Appelle, N. W. T	27.68	703.1	30.30	769.6	—16	—26.7		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.75	755.6	30.14	765.5	12	—11.1	80	n.	16	7.2			10 s		n.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.32	744.7	29.82	757.4	7	—13.9	83	se.	5	2.2			10 n			inap.	inap.	light snow	W. H. McIntyre.
St. Andrews, N. B	30.22	767.6	30.27	768.8	21	— 6.1	95	e.	8	3.6			10 n			0.04	1.0	cloudy	
St. John, N. B	30.20	767.1	30.35	770.9	19.7	— 6.8	97	ne.	16	7.2			10 n			inap.	inap.	overcast	G. Hutchinson.
St. Pierre, N. F			30.51	775.0	22.6	— 5.2		ne.			2								The Commandant.
Saugeen, Ontario*	28.83	732.3	29.56	750.8	31	— 0.6	92	calm	0	0			10 s			0.10	2.5	cloudy	
Stratford, Ontario	28.26	717.8	29.55	750.6	32.5	0.3	94	calm	0	0			10 s			0.050	1.3	drizzling	W. McBride, M.A.
Sydney, C. B*	30.49	774.4	30.56	776.2	15	— 9.4	91	calm	0	0		10 k	hz.	w.		0	0	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian—Continued.																			
Toronto, Ontario*	29.24	742.7	29.64	752.8	30	— 1.1	100	e.	15	6.7	.....	.....	10 n	.....	.....	0.32	8.1	heavy rain..	Magnetic Observatory.
Woodstock, Ontario	28.55	725.2	29.64	752.8	30.7	— 0.7	96	ne.	2	0.9	.....	.....	10 n	.....	.....	0.050	1.3	raining.	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.18	766.6	30.25	768.3	29	— 1.7	84	e.	18	8.0	.....	.....	10 s	.....	e.	0.12	3.0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.72	754.9	29.75	755.6	73.0	22.8	81	sw.	.....	.....	.....	0	7 k	.....	.....	0	0	fine	I. Garfelt.
Cape Town, The Castle	29.82	757.4	.....	.....	72.2	22.3	56	n.	.....	.....	.....	8 c;k	.....	.....	.....	0	0	.....	Capt. R. Gardner Warton
Springbok Fontein	27.82	706.6	.....	.....	80	26.7	48	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	J. T. Eustace
Chilian.																			
Coquimbo	29.79	756.6	29.86	758.5	63.5	17.5	90	s.	.....	.....	1	0	.....	.....	.....	.....	.....	clear	Samuel Redolez.
Iquique	29.76	755.8	29.78	756.5	69.3	20.7	88	sw.	.....	.....	2	4 c	.....	.....	.....	.....	.....	foggy	Rafael Moreno.
Niebla	29.33	744.9	29.43	747.6	54.3	12.4	72	w.	.....	.....	5	.....	4	.....	w.	0.386	9.8	cloudy	Federico Köhling.
Punta Caldera	29.80	757.0	29.89	759.2	68.9	20.5	83	se.	.....	.....	1	6 ns	.....	se.	.....	.....	.....	fair	Manuel Tobar.
Punta Corona	29.57	751.1	29.76	755.8	.....	.....	.....	.....	.....	.....	3	10 n	.....	.....	.....	0	0	cloudy	Francisco Alvarado.
Valparaiso	29.72	754.8	29.85	758.3	74.8	23.4	60	sw.	.....	.....	0	0	0	.....	.....	.....	.....	clear	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.23	767.9	30.26	768.5	24.6	— 4.1	86	nw.	1.6	0.7	.....	6 cs	0	w.	.....	0	0	cloudy	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.04	763.0	30.09	764.2	45.0	7.2	96	wnw.	20	9.	.....	.....	10	.....	.....	.....	.....	foggy	Oversergent Fischer.
Fanöe	30.15	765.8	30.17	766.3	43.0	6.1	96	wsw.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.89	759.2	29.93	760.3	—13.9	—25.5	100	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Ivigtut, Greenland	29.87	758.8	29.89	759.3	—14.3	—25.7	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Jacobshavn, Greenland	29.89	759.1	29.93	760.3	—32.8	—36.0	.....	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.94	735.1	28.98	736.2	23.9	— 4.5	90	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.60	751.8	29.62	752.4	38.8	3.8	100	w.	22	10.	.....	.....	5	.....	.....	.....	.....	.....	Overloerer Bergh.
Upernavik, Greenland	29.89	759.1	29.93	760.3	—23.6	—30.9	.....	e.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	
Vestervig	29.93	760.3	30.02	762.6	43.3	6.3	94	wsw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	Loerer Oesterbol.
Egyptian.																			
Cairo	29.98	761.4	.....	.....	61.7	16.5	.....	ne.	4.5	2.0	.....	0	8 k	.....	.....	0	0	.....	Albert Ismalun.
French.																			
Agen, Normal School	29.84	757.9	30.50	774.8	49.6	9.8	84	sse.	.....	.....	1	.....	1	.....	.....	0	0	.....	M. Labrone, Director.
Alençon, Normal School	29.95	760.8	30.50	774.8	43.2	6.2	79	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	M. Nicot, Director.
Arras, Normal School	.....	.....	.....	.....	45.0	7.2	76	ssw.	.....	.....	1	.....	5	.....	.....	0.016	0.4	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.45	773.4	30.53	775.4	48.2	9.0	63	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.95	760.8	30.54	775.6	40.6	4.8	72	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.25	768.3	30.53	775.4	46.2	7.9	70	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.58	751.4	30.50	774.8	33.1	0.6	88	ne.	.....	.....	2	.....	.....	.....	sw.	0	0	foggy	M. Gobin, Director.
Bordeaux, Observatory	30.11	764.7	30.37	771.5	49.5	9.7	64	ese.	.....	.....	1	.....	0	.....	.....	0	0	misty	M. Rayet, Director.
Bourges, Normal School	29.92	760.0	30.51	774.9	35.2	1.8	97	ene.	.....	.....	1	.....	8	.....	ene.	0	0	.....	M. Sauvageot, Director.
Brest, Naval Observatory	30.22	767.6	30.47	773.8	49.3	9.6	76	se.	.....	.....	1	.....	1	.....	se.	0	0	.....	M. de Kermarée, Dir.
Caen, Normal School	30.39	771.8	30.47	773.8	48.2	9	89	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch	30.21	767.3	30.54	775.7	45.9	7.7	71	n.	.....	.....	1	.....	2	.....	ese.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.99	761.7	30.52	775.3	41.5	5.3	69	ne.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	29.08	738.6	30.49	774.4	42.1	5.6	58	nw.	.....	.....	1	.....	0	.....	.....	0	0	misty	M. Allnard, Director.
Cluny, Normal School	29.63	752.6	30.52	775.1	43.2	6.2	75	sw	.....	.....	1	.....	0	.....	.....	0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.66	753.4	30.57	776.4	40.8	4.9	77	w.	.....	.....	1	.....	2 kn	w.	w.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.90	708.7	30.51	774.9	45.3	7.4	46	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Jarach, Director.
Grenasque, du Rhone	29.36	745.8	30.51	775.0	53.4	11.9	56	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.52	749.8	30.32	770.2	41.0	5.	66	ese.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.83	732.3	30.45	773.4	42.8	6	73	se.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Delorme, Dir.
Lescar, Normal School	29.80	756.8	30.36	771.2	59.4	15.2	50	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.35	771.0	30.46	773.6	45.7	7.6	55	e.	.....	.....	2	.....	0	.....	.....	0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.44	747.7	30.54	775.8	40.6	4.8	76	e.	.....	.....	1	.....	0	.....	.....	0	0	misty	M. André, Director.
Mans, Normal School	30.18	766.6	30.50	774.8	38.8	3.8	.....	ese.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Richard, Director
Marseille, Observatory	30.21	767.2	30.48	774.2	55.4	13.0	61	wsw.	.....	.....	0–1	.....	0	.....	.....	0	0	.....	M. Stephan, Director.
Montlouis	25.13	638.2	29.97	761.2	44.6	7.0	46	sw.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	M. Cave for Dr. Fines.
Montpellier, Normal School	30.37	771.3	30.48	774.1	51.8	11	80	nnw.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.74	755.4	30.56	776.2	41.0	5.0	71	w.	.....	.....	1	ck	.....	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	30.33	770.4	30.49	774.5	40.6	4.8	78	ene.	.....	.....	0–1	.....	0	.....	.....	0	0	misty	M. Larocque, Director.
Perpignan, Observatory	30.38	771.6	30.49	774.5	50.7	10.4	71	n.	5.6	2.5	.....	.....	7	.....	se.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	544.0	.....	.....	28.9	— 1.7	.....	sw.	.....	.....	1	.....	1	.....	sw.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.42	747.2	30.54	775.6	40.3	4.6	84	.....	.....	.....	.....	.....	.....	.....	.....	0	0	foggy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.47	646.8	.....	.....	38.1	3.4	47	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Allnard.
Rochefort, Naval Obs'y	30.44	773.2	30.47	774.0	45.3	7.4	75	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.22	767.6	30.45	773.4	42.4	5.8	78	e.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Brotier, Director.
Rodez, Normal School	28.27	718.0	30.45	773.5	49.5	9.7	.....	.....	.....	.....	.....	.....	0	.....	.....	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.46	773.7	30.51	774.9	44.6	7	85	w.	.....	.....	1	.....	10	w.	.....	0	0	covered	M. Mouillot, Dir.
St. Lô, Normal School	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Delaplanche, Dir.
Saint Maur, Observatory	30.35	770.9	30.52	775.1	46.6	8.1	55	ese.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.73	755.2	30.47	773.8	51.4	10.8	65	sse.	.....	.....	4	.....	2	.....	.....	0	0	slightly cl'dy	M. Baillard, Director.
Tours	30.30	769.5	30.48	774.3	40.6	4.8	80	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. de Tastes.
Versailles, Observatory	29.99	761.7	30.48	774.2	44.6	7.0	71	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.24	768.0	30.39	771.8	52.9	11.6	71	e.	7.8	3.5	.....	.....	0	.....	.....	0	0	misty	M. Cartier, Director.
German.																			
Ansbach	29.93	737.3	30.56	776.1	38.1	3.4	82	w.	.....	.....	2	.....	9	w.	.....	0.016	0.4	.....	Prof. Jnedt.
Bamberg	29.60	751.7	30.45	773.4	41.4	5.2	73	calm	.....	.....	0	.....	10	.....	.....	0.024	0.6	.....	Prof. Dr. Hoh.
Berlin	30.17	766.4	30.32	770.2	45.7	7.6	91	w.	.....	.....	3	.....	10	.....	.....	0.012	0.3	raining	Meteorological Institute
Breslau	29.82	757.4	30.35	771.0	43.0	6.1	90	wnw.	.....	.....	5	.....	10	.....	.....	0.012	0.3	.....	Royal University Obs'y
Carlsruhe	30.06	763.5	30.54	775.7	43.5	6.4	71	sw.	.....	.....	1	.....	6	nw.	.....	0	0	.....	Albert Senz.
Cassel	29.71	754.7	30.43	772.8	44.2	6.8	83	s.	.....	.....	3	.....	8	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	30.11	761.9	30.50	774.6	42.8	6.0	85	wsw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	29.08	738.5	30.58	776.7	33.1	0.6	96	ne.	.....	.....	1	.....	0	.....	.....	0	0	foggy	Wilhelm, Chief Tel.
Hamburg	30.23	767.9	30.32	770.2	45.0	7.2	90	wsw.	.....	.....	4	.....	10	.....	.....	0.031	0.8	rainy	E. Preiler.
Kiel	30.22	767.7	30.24	768.1	44.6	7.0	93	wsw.	.....	.....	5	.....	10	.....	.....	0.004	0.1	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.99	761.7	30.43	772.8	45.3	7.4	82	wsw.	.....	.....	2	.....	9	w.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.19	766.7	30.38	771.6	46.6	8.1	83	w.	.....	.....	4	.....	10	w.	.....	0	0	.....	Weather Observatory.
Memel	29.94	760.4	29.98	761.6	38.8	3.8	88	w.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	Issermann.
Munich	28.65	727.6	30.54	775.7	37.9	3.3	76	calm	.....	.....	0	.....	1	ne.	.....	0	0	.....	Central Station.
Neufahrwassee	30.08	763.9	30.09	764.3	41.4	5.2	92	sw.	.....	.....	3	.....	10	.....	.....	0.004	0.1	.....	A. Lothes.
Neustadt, Palatinate	29.98	761.6	30.52	775.2	43.5	6.4	83	w.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. Dicknether.
Stuttgart	29.53	750.0	30.46	773.7	41.0	5.0	69	n.	.....	.....	1	.....	1	.....	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.16	766.1	30.19	766.7	41.4	5.2	94	sw	.....	.....	3	.....	10	.....	.....	0	0	foggy	Profs. Brandes & Reimer
Greek.																			
Athens	29.84	757.9	30.23	767.8	56.1	13.4	.....	n.	.....	.....	0.5	0	0	.....	.....	0	0	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.01	762.2	30.06	763.5	74.5	23.6	36	ne.	16.0	7.2	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.52	749.8	30.00	762.0	75.3	24.1	7	n.	10.0	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.89	759.2	29.93	760.1	76.5	24.7	64	nnw.	25.0	11.2	.....	.....	3	wnw.	.....	0	0	d. clouds	
Poona, Yarrowda	28.04	712.1	29.88	759.0	82.6	28.1	23	ese.	5.0	2.2	.....	.....	2	.....	.....	0	0	d. clouds	
Belgaum	27.35	694.6	29.86	758.5	81.4	27.4	29	ene.	2.0	0.9	.....	.....	3	w.	.....	0	0	d. clouds	
Lahore	29.28	743.6	30.06	763.5	58.6	14.8	50	n.	4.0	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.00	736.6	29.93	760.3	62.8	17.1	47	nw.	7.0	3.1	.....	.....	0	.....	.....	0	0	blue sky	
Agra	29.40	746.7	29.98	761.6	65.8	18.8	28	w.	12.0	5.4	.....	.....	0	.....	.....	0	0	blue sky	
Nagpur	28.86	732.9	29.90	759.4	79.9	26.6	38	nnw.	7.0	3.1	.....	.....	2	sw.	.....	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.58	725.9	29.96	761.0	71.0	21.7	42	nw.	2.0	0.9			9	w.		0	0	gloomy	
Lucknow	29.54	750.4	29.94	760.4	63.3	17.4	45	wnw.	14.0	6.3			0			0	0	misty	
Allahabad	29.57	751.1	29.89	759.3	70.4	21.3	47	wnw.	2.0	0.9			0			0	0	blue sky	
Patna	29.62	752.5	29.81	757.3	74.5	23.6	32	w.	3.4	1.5			0			0	0	blue sky	
Hazaribagh	27.80	706.1	29.84	758.0	69.6	20.9	34	wnw.	4.0	1.8			4	w.		0	0	d. clouds	
Cuttack	29.79	756.7	29.88	758.8	78.2	25.7	41	nw.	2.0	0.9			0			0	0	blue sky	
Calcutta, Alipore	29.80	756.8	29.82	757.4	75.5	24.2	46	sw.	2.0	0.9			0			0	0	blue sky	
Dhubri	29.68	753.8	29.80	756.9	67.9	19.9	56	calm	0.4	0.2			0			0	0	blue sky	
Chittagong	29.90	759.3	29.99	761.7	72.1	22.3	84	s.	4.7	2.1			5		s.	0	0	d. clouds	
Sibsagar	29.54	750.3	29.89	759.3	55.7	13.2	94	ne.	1.0	0.4			10	sw.	sw.	0	0	overcast	
Jeypore	28.85	725.2	30.05	763.3	62.9	17.2	49	n.	7.2	3.2			0			0	0	blue sky	
Zanzibar	29.82	757.4	29.84	758.0	83.0	28.3	63	ne.	10.6	4.7			3	ne.		0	0	d. clouds	
Bellary	28.39	721.1			83.5	28.6	28	e.	4	1.8		2 c	0			0	0	d. clouds	
Trichinopoly	29.63	752.6			84.5	29.2	27	e.	0.3	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	30.04	763.1	30.47	773.9	49.5	9.7	56	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.95	760.7	30.49	774.4	46.8	8.2	54	sw.	2.5	1.1			0			0	0		Prof. G. V. Schiapparelli
Padua	30.36	771.2	30.48	774.1	43.7	6.5	79	nne.	1.8	0.8			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.54	750.3	30.48	774.1	46.4	8.0	49	e.	2.5	1.1			0			0	0		Prof. F. F. Denza.
Genoa	30.29	769.4	30.49	774.4	54.1	12.3	71	s.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.43	772.9	30.48	774.2	45.3	7.4	90	n.	11.2	5.0			0			0	0		Prof. Luigi Guidi.
Florence	30.21	767.4	30.47	774.0	47.8	8.8	73	n.			2		0			0	0		Prof. Costantino Pittei.
Leghorn	30.35	770.8	30.42	772.6	52.7	11.5	70	w.	0.7	0.3			0			0	0		Prof. P. Monte.
Rome	30.27	768.9	30.45	773.4	53.8	12.1	41	n.	2.5	1.1			0			0	0		Prof. P. Tacchini.
Lecce	30.10	764.4	30.35	771.0	57.2	14.0	59	nnw.	19.2	8.6			1	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.49	749.1	30.41	772.4	51.1	10.6	75	se.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	30.21	767.3	30.47	773.8	56.3	13.5	57	ne.	4.3	1.9			2	nne.		0	0		Prof. G. Cacciatore
Syracuse	30.32	770.2	30.37	771.4	57.4	14.1	66	nne.	4.9	2.2			3	nne.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.99	759.5	30.44	773.2	54.7	12.6	43	nw.	3.8	1.7			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.01	762.2	30.04	763.0	28.0	— 2.2	100	n.			2		10 k		s.	0	0	cloudy	H. Hattori.
Awomori	30.01	762.2	30.05	763.3	23.9	— 4.5	71	se.	1.6	0.7		0	3 ck		w.	0	0	fair	K. Ogawa.
Hakodate	30.07	763.8	30.08	764.1	21.7	— 5.7	84	nne.	2.4	1.1			10 s			0	0	covered	Y. Souma.
Hamamatsu	29.89	759.2	29.99	761.7	37.3	2.9	77	w.			4	0	0			0	0	clear	Sekigawa & Yamasaki.
Hiroshima, I. M. Obs'y	30.09	764.2	30.10	764.6	34.7	1.5	77	n.	6.2	2.8			10ck;s		w.	0.638	16.2	cloudy	Y. Okamoto.
Kagoshima	30.10	764.6	30.11	764.8	40.4	4.7	88	nnw.			2		9 s		nw.	0.028	0.7	cloudy	
Kanazawa	29.96	761.0	30.07	763.8	33.3	0.7	97	s.	2.2	1.0			10n;ks			0.144	3.7	raining	S. Endo.
Kioto	29.90	759.5	30.07	763.9	32.9	0.5	93	calm	0	0		0	0			0	0	clear	M. Tojima.
Kochi	30.05	763.4	30.08	764.0	40.3	4.6	67	ene.	8.5	3.8		10 cs	0			0	0	cloudy	K. Kusunose.
Miasaka	30.06	763.6	30.09	764.3	42.3	5.7	79	wnw.			2		9 s		w.	0	0	cloudy	K. Masusaki.
Miyako	29.98	761.4	30.09	764.2	29.0	— 1.7	82	ne.	0.5	0.2			10 s;n		ne.	0.528	13.4	cloudy	N. Homno & K. Suwa.
Nagasaki, I. M. Obs'y	29.88	758.9	30.10	764.5	40.2	4.6	89	calm	0	0			10 cs		nw.	0.190	4.8	overcast	
Nemuro	30.07	763.8	30.12	765.0	14.5	— 9.7	57	wnw.	15.0	6.7		2 ck	0			0	0	clear	A Shibuya.
Niigata	30.00	762.0	30.04	763.0	33.0	0.6	93	se.	2.0	0.9			10n;ks		nw.	0.045	1.1	light snow	Satoo & Tomikawa.
Nohiru	30.03	762.7	30.04	763.1	29.6	— 1.3	100	nnw.	2.2	1.0			10n;ks		w.	0.005	0.1	light snow	Yoshino & Midzushina.
Numadzu	29.96	761.0	30.00	761.9	36.6	3.7	87	se.			2		10 n			0.012	0.3	light rain	T. Ohgi.
Osaka	30.07	763.9	30.09	764.3	35.0	1.7	72	nw.	2.7	1.2		0	0			0	0	clear	H. Omura.
Sakai	30.08	764.1	30.09	764.3	35.5	1.9	76	nne.			2	0	0			0	0	clear	Yamawchi & Sakamoto.
Sapporo	30.04	763.1	30.11	764.9	11.5	— 11.4	84	se.	12.5	5.5		0	3 s			0.015	0.4	clear	S. Kimura.
Shimonoseki	29.91	759.7	30.06	763.4	39.0	3.9	87	e.			1		10 s		w.	0.299	7.6	cloudy	S. Sakano.
Wakayama	30.04	763.0	30.09	764.4	37.5	3.1	73	calm	0	0		4 cs	0	w.		0	0	fair	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.71	754.6	29.90	759.4	81.0	27.2	74	ese.	13.0	5.8			9 ks;kn		ese.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.27	616.4	30.04	763.0	50.0	10.0	71	e.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.76	756.0	30.03	762.7	68.0	20.0	90	nnw.	1.0	0.8		3 cs	0	se.		0	0	foggy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.45	773.4	30.45	773.4	46.4	8.0		sw.			4					0	0		
Groningen	30.35	770.8	30.40	772.2	44.8	7.1		wsw.								0.012	0.3		
Helder	30.35	770.9	30.35	770.9	44.4	6.9		sw.			4					0	0		
Hellevoetsluis	30.43	773.0	30.43	773.0	50.7	10.4	85	wsw.			2					0	0		
Utrecht	30.39	771.8	30.44	773.2	46.9	8.3	86	wsw.			2		9			0.008	0.2	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.86	758.5			79.5	26.4	87	nw.	0	0			9			0.138	3.5		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.79	756.7	29.85	758.3	43.5	6.4	79	sw.	11	5			10			0.846	21.5		
Brono	29.11	739.4	29.15	740.4	40.6	4.8	95	wsw.			9		8			0	0		
Christiania	29.55	750.5	29.70	754.3	38.5	3.6	80	wnw.	4	2			4			0	0	foggy	
Gjesvær	28.86	733.1	28.89	733.7	19.6	— 6.9		sse.			9		0			0	0		
Lodingen	28.69	728.7	28.74	729.9	35.4	1.9	75	sw.			9		10			0.350	8.9	raining	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.81	757.2	29.90	759.4	57.9	14.4	55	sw.	4.9	2.2			1			0.063	1.6		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	756.8	30.14	765.5	52.5	11.4	67	ene.	16.8	7.5			10			0.063	1.6		The Staff.
Ponta Delgada, Azores	30.13	765.3	30.20	767.1	59.0	15.0	58	ne.	9.4	4.2			4			0.192	4.9		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.03	762.8	30.07	763.7	68.2	20.1	62	ne.			4		6			0	0		
San Salvador, Congo	28.07	711.4	29.82	757.4	81.9	27.7	66	sw.			1		7			1.969	50.0		
Serra da Estrella	25.33	643.3	30.18	766.6	37.9	3.3	72	ese.			7		10			0	0		
RUSSIAN.																			
Akmolinski	28.78	730.9	29.91	759.7	24.3	— 4.3	100	ssw.	11	5			10 n			0.020	0.5		Major K. Lasarew.
Archangel	29.45	747.9	29.47	748.4	11.5	—11.4	97	se.	2	1			10			0	0		Capt. Seelliwerstow
Ashurada	30.12	765.0	30.02	762.6	48.0	9.2	84	nnw.	7	3		0	5 k			0	0		
Astrakhan	29.80	757.0	29.72	755.0	32.5	0.3	94	ssw.	16	7			10 n			0.031	0.8	h'vy clouds	Capt. Wisganow.
Baku	29.96	761.0	29.91	759.8	45.7	7.6	55	ssw.	22	10		0	0			0	0		
Barnaul	29.82	757.5	30.36	771.2	21.4	— 5.9	93	sw.	9	4			10			0.004	0.1		Meteorological Office.
Bielosersk	29.12	739.6	29.62	752.3	11.8	—11.2	87	se.	2	1			10 n			0.047	1.2	snow & fog	
Dorpat	29.47	748.5	29.72	754.8	34.5	1.4	66	wnw.	9	4		0	0			blank	blank		Observatory.
Ekaterinburg	28.84	732.5	29.90	759.4	2.3	—16.5	92	e.	9	4		7 ck	0			0.020	0.5		Meteorological Obs'y.
Elissawetgrad	29.28	743.8	29.75	755.6	33.6	0.9	94	nw.	20	9			10 n			0.004	0.1		
Kasan	29.30	744.2	29.59	751.5	17.1	— 8.3	76	ese.	2	1			4			0	0	light clouds	Observatory.
Kem	29.42	747.2	29.47	748.5	8.2	—13.2	96	s.	4	2			10			0.067	1.7	h'vy clouds	
Kertch	29.70	754.3	29.72	754.9	39.2	4.0	84	w.	9	4			9 n			0.154	3.9	light rain	Lagorio & Sastyrea.
Kief	29.06	738.1	29.71	754.7	30.3	2.4	60	nw.	22	10			10ks;n			0.051	1.3		Observatory.
Koslov	28.74	729.9	29.25	743.0	25.3	— 3.7	86	ene.	13	6			10 s			0	0		
Lgov	28.84	732.5	29.43	747.6	33.4	0.8	83	wnw.	45	20			10			0.114	2.9		R. I. Ssaweljew, Engin'r.
Libau	29.89	759.3	29.92	759.9	39.0	3.9	88	wsw.	11	5			0			0	0		L. Jukas.
Lugan	29.15	740.3	29.35	745.6	36.0	2.2	89	wsw.	22	10			10			0.028	0.7		Meteorological Obs'y
Moscow	28.98	736.2	29.49	749.0	21.2	— 6.0	87	ene.	2	1			10 s			0.063	1.6	light snow	Meteorological Obs'y
Nertschinsk	27.99	711.0	30.62	777.8	—10.5	—23.6	68	nw.	4	2			0			0	0		
Nikolaiev	29.76	756.0	29.84	757.8	42.8	6.0	65	nnw.	45	20		0	0			0	0		Capt. Kurdakow.

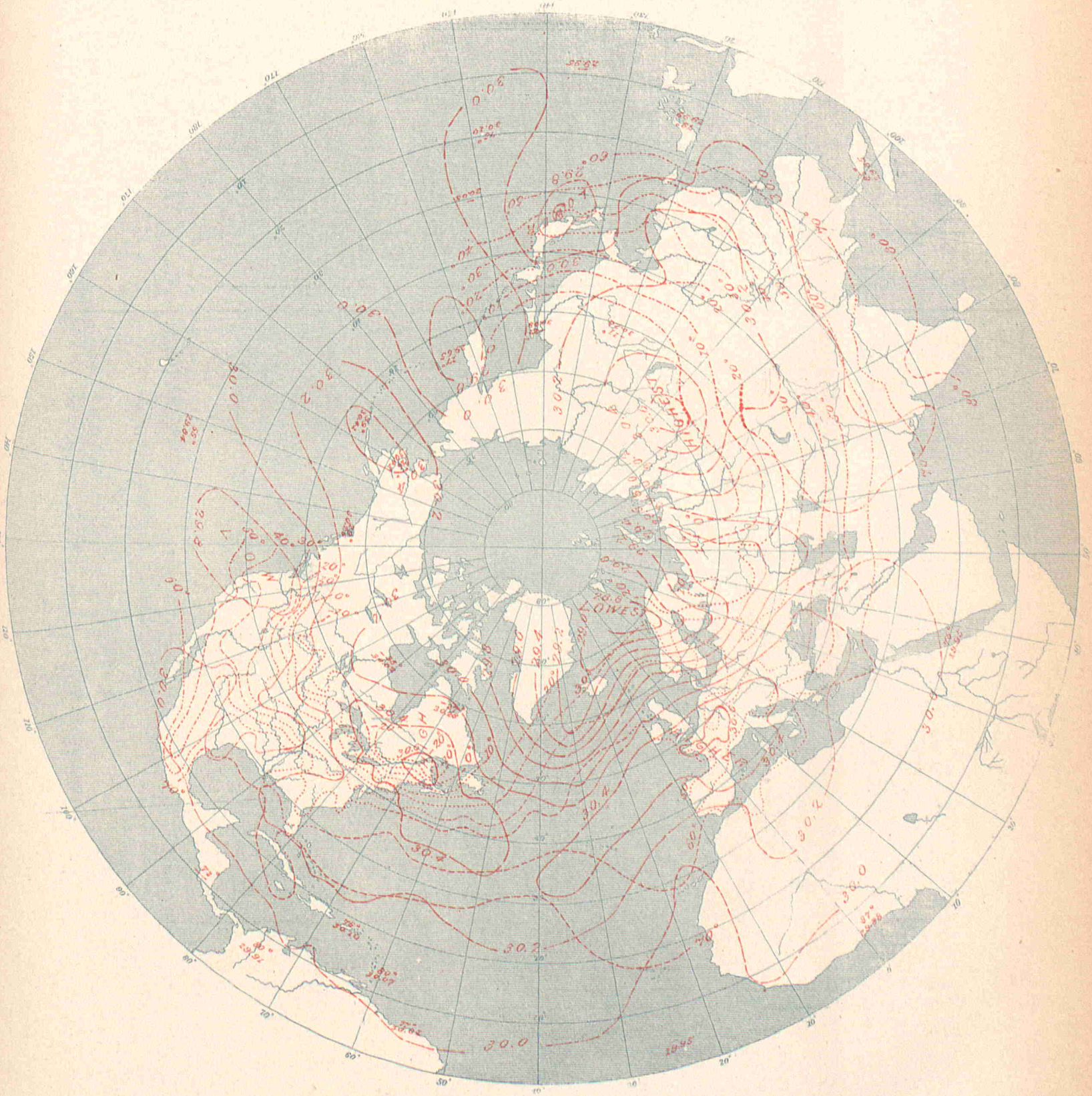
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10.	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	30.18	766 5	30.26	768.7	—18.4	—28.0	75	calm	0	0		1 c	0						Iwanow.
Pekin, China	30.05	763.2	30.19	766.8	26.1	— 3.3	33	calm	0	0		0	0						Siang.
Petro-Alexandrovsk	29.69	754.1	30.06	763.4	38.7	3.7	82	n.	9	4			10						Walter.
Petrozavodsk	29.33	744.9	29.54	750.3	13.8	—10.1	83	ese.	7	3			10			0.079	2.0	light clouds	Dr. Bergmann.
Pinsk	29.46	748 2	29.97	761.2	37.9	3.3	70	wnw.	22	10		0	3 ks			0.087	2.2		
Poti	30.05	763.2	30. 08	764 0	43.0	6.1	66	s.	9	4			10 n			0.098	2.5	raining	
St. Petersburg	29.56	750.8	29.58	751 4	28.2	— 2.1	85	w.	4	2			10 n			0.197	5.0		Central Physical Obs'y.
Samarkand	27.59	700.7	30.07	763.8	51.1	10.6	30	calm	0	0		2 cs	0						Dresch.
Semipalatinsk	29.65	753 1	30.36	771 2	19.6	— 6.9	84	s.	9	4			8			0	0		Major Lasarew
Sevastopol	29.68	753.9	29.90	759.5	41.9	5.5	67	nw.	40	18			10 n			0.063	1.6	heavy clouds	
Staroi Bykhov	29.11	739.4	29.68	753.9	34.2	1.2	65	nw.	34	15			10			0.201	5.1	light snow	Carl Hagen.
Tashkend, Laboratory	28.44	722 4	30.16	766.0	43.9	6.6	57	ne.	9	4			7 k					light clouds	Terca, A. M
Tiflis	28.59	726 2	30.06	763.5	38.5	3.6	45	wnw.	27	12		10 cs	0			0	0		Physical Observatory.
Vernoe	27.63	701.8	30.28	769.0	27.7	— 2.4	70	calm	0	0		3 c	0						Sariono.
Viatka	29.00	736.7	29.67	753.6	17.2	— 8.2	79	se.	2	1			10						
Vladivostock	30.05	763.3	30.12	765.0	11.7	—11.3	96	se.	9	4			0			0	0		
Warsaw	29.75	755.6	30.19	766.7	39.9	4.4	79	wnw.	22	10		0	5 k						Astronomical Obs'y.
Yeniseisk	30.41	772.3	30.74	780.7	— 7.4	—21.9	77	e.	4	2			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.84	732.5	29.36	745.7	18 6	— 7.4	92	nne.	9.3	4.2		7 ck	7 n		ne.	inap.	inap.	light snow	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.37	771.3	30.48	774.1	58.3	14.6	68	sse.				0	0			0	0	clear	B.J.Elin.
Bilbao, Met. Obs'y	30.31	769.9	30.37	771.4	59.0	15.0	55	se.	1.8	0.8		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.37	695.3	30.48	774.1	39.7	4.3	87	ne.	4.2	1.9		0	8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.14	714 8	30.43	772.9	51.4	10.8	64	ne.	11.4	5.1		0	7			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	30.23	767.8	30.35	770.9	54.7	12.6	82	ne.	2.2	1.0		4	5	wsw.		0	0	almost cov'd	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.27	743.5	30.18	766.6	54.5	12.5	59	se.	6.3	2.8			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.08	763.9	30.14	765.6	70.0	21.1	78	ese.	2.2	1.0		1 ck	1 k;s	s.	se.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759 2	29.95	760.7	76.5	24.7	90	se.	8.8	3.9		0	0			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761 2	30.07	763.8	61.5	16.4	57	ese.	41.3	18.4		2	8	se.	se.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.97	761.2	30.06	763.5	73.4	23.0	69	se.	2.9	1.3		3 c	1 k		se.	0.008	0.2	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.30	744 1	29.34	745.1	10.4	—12.0	100	s.			2		10			0.169	4.3		
Umea	29.31	744.4	29.36	745 7	33.1	0.6	89	sw.			4		9			0	0		
Hernosand	29.32	744 7	29.37	746.0	35.2	1.8	67	calm			0		0			0	0		
Stockholm	29.49	749.0	29.67	753.5	40.6	4.8	84	wsw.			4		10			0	0		
Wisby	29.73	755.2	29.79	756.7	40.3	4.6	87	wsw.			4		10			0	0		
Sub-series.																			
Upsala	29.50	749.3	29.59	751.5	38.3	3.5	87	sw.	16.1	7.2			9		wsw.	0	0		H.H.Hildebrandsson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.24	768.1	43.2	6.2	67	wsw.	6	2.5			10		sw.	0	0	foggy	The Observatory.
Valona			30.38	771.6	57.6	14.2		ne.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.04	763.1	60.6	15.9	72	wsw.			2		10 n		sw.	0	0		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.91	759.7	30.00	762 0	29.4	— 1.4	83	se.	1	0.4			10s;fg			0.31	7.9	cloudy	J. O. Barnes.
Alpena, Michigan	28.89	733.8	29.60	751.8	25.8	— 3.4	88	e.	13	5.8			10 n			0.51	13.0	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.85	631.2	29.95	760.7	41.1	5.1	86	sw.	13	5.8			10 s			0.07	1.8	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.21	691.1	30.25	768.3	1.0	—17.2	72	ne.	10	4.5			10 n		ne.	0.05	1.3	light snow	F. Newman.
Atlanta, Georgia	28.95	735.3	30.17	766.3	54.4	12.4	72	sw.	10	4.5		0	hz.			0	0	clear	S. W. Beall.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	41.0	5.6	100	sw.	9	4.0			fg.			1.19	30.2	dense fog	B.A.Blundon.
Augusta, Georgia	30.01	762.2	30.21	767.3	51	10.6	86	se.	4	1.8			hz.			0	0	dense haze	W.J.Evans.
Baltimore, Maryland	29.95	760.7	30.00	762.0	39.7	4.3	92	n.	1	0.4			fg.			0.64	16.3	dense fog	Geo. W Feiger.
Barnegat City, New Jersey	29.94	760.5	29.96	761.0	41.0	5.0	100	w.	16	7.2			fg.			0.10	2.5	dense fog	F.L.Johnson.
Bennett, Fort, Dakota	28.44	722 4	30.17	766.3	4.0	—15.6	100	nw.	15	6.7			10 n		nw.	0.06	1.5	light snow	A. Pritchard.
Benton, Fort, Montana	27.29	693.2	30.29	769.4	0.0	—17.8	48	sw.	4	1.8			10 s			0.06	1.5	cloudy	Thomas Morgan.
Bismarck, Dakota	28.15	715.0	30.13	765.3	0.0	—17.8	100	nw.	10	2.5			10 n		nw.	0.09	2.3	light snow	B. O. Lenoir.
Block Island, Rhode Island	29.97	761.2	30.00	762.0	34.0	1.1	100	ne.	7	3.1			10 n		ne.	0.26	6.6	light rain	J. T. Elker.
Boise City, Idaho	26.78	680.2	29.74	755.4	29.5	— 1.4	94	nw.	2	0.9			10 s			0.39	9.9	cloudy	James Kenealy.
Boston, Massachusetts	29.88	758.9	30.04	763.0	31.0	— 0.6	100	ne.	8	3.6			10 n		ne.			light rain	O. B. Cole.
Brownsville, Texas	29.82	757.4	29.88	758.9	66.8	19.3	93	se.	10	4.5		0	0			0	0	clear	John McGlone.
Buffalo, New York	28.84	732.5	29.63	752.6	40	4.4	92	sw.	5	2.2			10 n			0.32	8.1	light rain	Wm. Finn.
Buford, Fort, Dakota	27.97	710.4	30.18	766.6	— 0.4	—18.0	100	w.	7	3.1			10 s			0.01	0.3	cloudy	A. Schneider.
Cairo, Illinois	29.44	747.8	29.86	758.4	63.1	17.3	85	sw.	22	9.8			10 n		sw.	0.05	1.3	light rain	W. H. Ray.
Canby, Fort, Washington Ter	29.60	751.8	29.80	756.9	32.3	0.2	85	s.	7	3.1		0	0			0.02	0.5	clear	J.H.Young.
Cape Henry, Virginia	30.07	763.8	30.09	764.3	59.5	15.3	87	s.	16	7.2			10 s			0.32	8.1	cloudy	A. K. Alderson.
Cape May, New Jersey	29.96	761.0	29.99	761.7	44.3	6.8	86	s.	16	7.2		3 ck	4 s	se.		0.19	4.8	fair	W.E.Smith.
Cape Mendocino, California	28.97	735.8	29.67	753.6	35.5	1.9	75	e.			2		10 n		ne.	0.50	12.7	sleeting	A. P. Leavitt.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	60.4	15.8	100	e.	5	2.2		0	0			inap.	inap.	clear	G. W. Davis.
Charleston, S. Carolina	30.13	765.3	30.19	766.8	59.0	15.0	87	sw.	3	1.3		0	3 s		sw.	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.26	743.2	30.15	765.8	53.0	11.7	79	sw	4	1.8			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.25	742.9	30.11	764.8	59.0	15.0	74	s.	3	1.3		0	9 ks		sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.56	601.0	29.93	760.2	29.1	— 1.6	69	nw.	1	0.4			10 s			0.01	0.3	cloudy	E. McGovern.
Chicago, Illinois	28 85	732.8	29.60	751 8	35.9	2.2	90	sw.	16	7.2			10 s			0.92	23.4	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.02	762 5	30.04	763.0	45.0	7.2	100	s.	12	5.4			fg.			0.20	5.1	dense fog	C. F. Dickens
Cincinnati, Ohio	29.11	739.4	29.80	756.9	62.3	16.8	81	sw.	12	5.4			10 s		sw.	1.39	35.3	cloudy	L.Dunne.
Cleveland, Ohio	28.90	734.0	29.69	754.1	35.0	1.7	100	sw.	15	6.7			10 n		sw.	1.32	33.5	heavy rain	W.Line.
Columbus, Ohio	28.88	733.5	29.78	756.4	57	13.9	83	se.	12	5.4			10 s		sw.	0.70	17.8	cloudy	F.T. Williams
Concho, Fort, Texas	27.92	709.2	29.94	760.5	55.3	12.9	100	nw.	2	0.9			10 s			inap.	inap.	cloudy	C. E. King.
Custer, Fort, Montana	26.84	681.7	30.20	767.1	0	—17.8	100	n.	1	0.4			10 n			0.04	1.0	heavy snow	W.J.Daily.
Davenport, Iowa	29.06	738.1	29.76	755.9	33	0.6	81	nw.	14	6.3			10 s		nw.	0.22	5.6	cloudy	R. R. Martin.
Davis, Fort, Texas	25 06	636 5	30.02	762 5	43.6	6.4	72	se.	1	0.4			10 ks		se.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.11	714.0	29.93	760.2	18.5	— 7.5	93	sw.	4	1.8			10 n			0.03	0.8	light snow	H.S.Blandford.
Deadwood, Dakota	25.17	639.3	30.09	761.3	3.0	—16.1	79	w.	1	0.4			10 s			0.05	1.3	cloudy	G.Kingsbury.
Delaware Breakwater, Del.	29.97	761.2	29.99	761.7	54.4	12.4	79	sw.	28	12.5			10s;fg		sw.	0.24	6.1	cloudy	G.A.Martin.
Denver, Colorado	24.37	619.0	29.89	759.2	32.2	0.1	72	s.	2	0.9		0	3 s			inap.	inap.	clear	F. M. Neal.
Des Moines, Iowa	28.93	734.8	29.90	759.4	21	— 6.1	70	nw.	10	4.5			10 s		nw.	0.42	10.7	cloudy	F. W. Conrad.
Detroit, Michigan	28 87	733.3	29.62	752.3	41.0	5.0	92	calm	0	0			10 n			0.14	3.0	light rain	N.B.Conger.
Dodge City, Kansas	27.21	691.1	29.95	760.7	25.5	— 3.6	100	e.	9	4.0			fg			0	0	dense fog	J.E.Lanouette.
Dubuque, Iowa	29.00	736.6	29.76	755 9	25.7	— 3.5	84	w.	3	1.3			10 s			0.20	5.1	cloudy	J. Harvey Smith
Duluth, Minnesota	29.06	738.1	29.87	758.7	13.0	—10.6	89	nw.	11	4.9			10 s			0.04	1.0	cloudy	E.R.Brace.
Eastport, Maine	30.22	767.6	30.28	769.1	19.0	— 7.2	76	e.	14	6.3			10 s		e.	0.08	2.0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	26.99	685.5	29.89	759.2	38.5	3.6	78	e.	2	0.9			10 s			0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.21	665.7	30.09	764.3	54.0	12.2	69	calm	0	0		0	0			inap.	inap.	clear	J. O'Dowd.
Erie, Pennsylvania	28.90	734.0	29.67	753 6	50.8	10.4	93	sw.	14	6.3			10 n			1.06	26.9	light rain	C. A. Shaw.
Escanaba, Michigan	28.97	735 8	29.69	754 1	13.5	—10.3	91	n.	17	7.6			10 n		n.	0.27	6.9	heavy snow	L.M.Pindell.
Fort Smith, Arkansas	29.32	744.7	29.82	757.4	60.5	15.8	82	nw.	4	1.8			10 s		n.	0.10	2.5	cloudy	J. B. Campbell.
Galveston, Texas	29.95	760.7	29.99	761.7	64.0	17.8	100	s.	8	3.6			10 s		s.	inap.	inap.	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	28.80	731.5	29.51	749.5	36.0	2.2	61	calm	0	0			fg			0.38	9.7	dense fog	Joseph E. Mueller
Grant, Fort, Arizona	25.09	637.3	29.95	760.7	43.2	6.2	74	n.	1	0.4			10 s		nw.	0	0	cloudy	Chas. A. Read.
Hatteras, North Carolina	30.16	766.1	30.17	766.3	61.0	16.1	87	sw.	10	4.5		0	5 s		sw.	0.03	0.8	fair	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.78	654.8	30.12	765.0	1	—17.2	72	n.	2	0.9			10 n			0.14	3.6	light snow	S. W. Morrison.
Huron, Dakota	28.56	725.4	30.08	764.0	7.8	—13.4	72	n.	8	3.6			10 s			0.11	2.8	cloudy	S. W. Glenn.
Indianapolis, Indiana	28.85	732.8	29.70	754.4	57.0	13.9	86	sw.	10	4.5			10 s		sw.	1.07	27.2	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.89	759.2	29.92	760 0	65.1	18.4	99	s.	14	6.3		0	fg.			0	0	clear	I. A. Reed.
Jacksonville Florida	30.16	766.1	30.21	767.3	54.3	12.4	96	calm	0	0		0	fg.			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.11	739.4	29.81	757.2	33.5	0.8	94	w.	8	3.6			10 s		w.	0.41	10.4	cloudy	F. Z. Gosewisch.
Key West, Florida	30.12	765 0	30.14	765.5	70.2	21.2	75	e.	6	2.7		0	0			0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.13	765.3	30.15	765.8	58.0	14.4	93	sw.	17	7.6		2 k	0	sw.		0.10	2.5	clear	Wesley Blake.
Knoxville, Tennessee	29.00	736.6	30.08	764.0	60.9	16.1	62	sw.	9	4.0			10 s		sw.	0.16	4.1	threatening	J. A. Cody.
La Crosse, Wisconsin	28.92	734.6	29.76	755.9	19	— 7.2	84	nw.	12	5.4			10 s			0.35	8.9	cloudy	S. C. Emery
Leavenworth, Kansas	28.99	736.3	29.94	760.5	25	— 3.9	68	nw.	10	4.5		0	2 k		nw.	0.22	5.6	clear	T. S. Outram.
Lewiston, Idaho	29.02	737.1	29.89	759.2	30.0	— 1.1	78	nw.	7	3.1			10 s			0.04	1.0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.54	750.3	29.86	758.4	66.0	18.9	84	s.	11	4.9			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.50	749.3	29.90	759.4	50.5	10.3	90	w.	2	0.9		0	8 s		sw.	0.60	15.2	clearing	T. S. Collins
Louisville, Kentucky	29.22	742.2	29.81	757.2	64.0	17.8	80	sw.	16	7.2			10 s		sw.	0.69	17.5	cloudy	L. M Dey.
Lynchburg, Virginia	29.33	745.0	30.05	763.3	48.0	8.9	86	s.	1	0.4		0	4s;fg			0.33	8.4	fair	Jno. Healy.
Mackinaw City, Michigan	28.92	734.6	29.62	752.3	18.2	— 7.7	87	e.	18	8.0			10 n		e.	0.29	7.4	light snow	D. B. Notson.
Macon, Fort, North Carolina	30.18	766.6	30.19	766.8	56.1	13.4	96	sw.	13	5.8		2 cs	3 k		sw.	inap.	inap.	fair	William Daly.
Maginnis, Fort, Montana	25.36	644.1	30.11	764.8	— 8.4	—22.4	29	nw.	10	4.5			10 s		nw.	0.07	1.8	cloudy	F. Burke.
Marquette, Michigan	28.97	735.8	29.75	755.6	16.2	— 8.8	93	n.	8	3.6			10 n			0.16	4.1	light snow	J. Gilligan.
Memphis, Tennessee	29.56	750.8	29.91	759.7	65.5	18.6	97	s.	8	3.6			10 s		s.	inap.	inap.	cloudy	D. T. Flannery
Milwaukee, Wisconsin	28.79	731.3	29.59	751.6	31.8	— 0.1	90	nw.			2		10 n			0.30	7.6	sleeting	S. W. Rhode.
Mobile, Alabama	30.05	763.3	30.09	764.3	60.9	16.1	90	s.	5	2.2			fg.			0.01	0.3	dense fog	H. U. Jones.
Montgomery, Alabama	29.90	759.4	30.14	765.5	57.2	14.0	93	calm	0	0			10 s;fg		s	inap.	inap.	dense fog	Geo. E. Franklin.
Moorhead, Minnesota	28.03	734.8	30.03	762.7	4.1	—15.5	72	n.	10	4.5			10 s		n.	0.03	0.8	cloudy	H. Bessant.
Mt. Washington, N. H.	23.63	600.2	30.25	768.3	27.0	— 2.8	100	se.	65	29.0			10n;fg		se.	0.12	3.0	light snow	Edwd. A. Beals.
Nashville, Tennessee	29.35	745.5	29.96	761.0	62.8	17.1	82	s.	11	4.9		5 ck	0	sw.		inap.	inap.	fair	L. N. Jesunofsky
New Haven, Connecticut	29.90	759.4	30.02	762.5	29	— 1 7	100	ne.	10	4.5			10 n			0.34	8.6	light rain	J. H. Sherman.
New London, Connecticut	29.98	761.5	30.03	762.7	33.0	0.6	100	nw.	2	0.9			10 n		n.	0.16	4.1	light rain	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.07	763.8	62.0	16.7	90	calm	0	0			fg.			0	0	dense fog	M. Herman.
New York, New York	29.81	757.2	30.00	762.0	31.5	— 0.3	100	calm	0	0			10n;fg			0.11	2.8	light rain	H. J. Penrod.
Norfolk, Virginia	30.05	763.3	30.08	764.0	57.2	14.0	86	sw.	8	3.6		4 cs	0			0.09	2.3	cloudy	Wm. Davis.
North Platte, Nebraska	26.90	683.2	30.00	762.0	17.8	— 7.9	70	w.	8	3.6			10 s			0.01	0.3	cloudy	J. J. Mc Lean.
Olympia, Washington Ter	29.84	757.9	29.88	758.9	31.0	— 0.6	88	calm	0	0		0	0			0.02	0.5	clear	J. Descombe
Omaha, Nebraska	28.76	730.5	30.03	762.7	10.7	—11.8	73	nw.	13	5.8		0	0			0.44	11.2	clear	A. Pollak
Oswego, New York	29.38	746.2	29.72	754.9	35.9	2.2	81	s.	15	6.7			10 n			0.10	2.5	light rain	J. G. Linsley.
Palestine, Texas	29.33	745.0	29.91	759.7	66.2	19.0	89	s.	11	4.9		0	8 s		s.	0	0	cloudy	P. T. Jenkins.
Pensacola, Florida	30.10	764.5	30.13	765 3	62.4	16.9	100	se	2	0.9			fg.			0	0	dense fog	M. McGauran.
Philadelphia, Pa	29.90	759.4	30.01	762.2	37.0	2.8	100	ne.	5	2.2			fg.			0.32	8.1	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.38	441.4	30.10	764.5	4.0	—15.6	83	sw.	25	11.2		0	0			0.01	0.3	clear	H. Hall.
Pittsburg, Pennsylvania	28.92	734.6	29.78	756.4	60.2	15.7	82	s.	14	6.3			10 s		sw.	0.56	14.2	cloudy	O. D. Stewart
Poplar River, Montana					— 9.1	—22.8	76	w.			1	0	8 s			0.02	0.5	cloudy	G. A. Carden.
Port Huron, Michigan	28.86	733.0	29.59	751.6	32.0	0.0	100	s	4	1.8			10 n			0.25	6.3	light rain	M. H. Perry
Portland, Maine	30.06	763.5	30.11	764.8	19.0	— 7.2	84	n.	13	5.8			10 n		n.	0.11	2.8	light snow	W. W. Eichelberger.
Portland, Oregon	29.73	755.1	29.80	756.9	32.7	0.4	63	ne.	6	2.7		0	0			0.09	2.3	clear	M. L. Hearn.
Prescott, Arizona	24.54	623.3	29.90	759.4	36.8	2.7	92	s.	10	4.5			10 n			0.27	6.9	light rain	N. D. Lane.
Provincetown, Mass	29.97	761.2	30.00	762.0	38.0	3.3	100	se.	11	4.9			10n;fg		se.	0.37	9.4	light rain	C. N. Kitchel.
Red Bluff, California	29.31	744.5	29.68	753.9	41	5.0	96	s.	12	5.4			10 n		s.	0.02	0.5	light rain	J. R. Williams.
Rio Grande City, Texas	29.65	753.1	29.90	759.4	65.6	18.7	91	se.	8	3.6		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	28.99	736.3	29.70	754.4	36	2.2	79	se.	16	7.2			10 n			0.13	3.3	light rain	E. W. McGann.
Roseburg, Oregon	29.14	740.1	29.70	754.4	35	1.7	85	n.	1	0.4			10 s			0.01	0.3	cloudy	J. J. Nanry.
Sacramento, California	29.67	753.6	29.74	755.4	41.5	5.3	92	s.	9	4.0		0	0			0.43	10.9	clear	J. A. Barwick
St. Louis, Missouri	29.19	741.4	29.85	758.2	48.0	8.9	86	w.	17	7.6			10ks;sk		w.	1.55	39.4	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.36	771.1	30.39	771.9	26	— 3.3	100	s.			2		10 n			0	0	cloudy	Fred. H. Clarke
St. Paul, Minnesota	28.92	734.6	29.85	758.2	16.0	— 8.9	57	nw.	8	3.6		3 cs	0			0.25	6.3	clear	P. F Lyons.
St. Vincent, Minnesota	29.11	739.4	30.08	764.0	—10	—23.3	74	nw.	5	2.2		5 cs	0			0.04	1.0	fair	C. B. Dilley.
Salt Lake City, Utah	25.17	639.3	29.73	755.1	40.6	4.7	89	se.	12	5.4			10 s			0	0	threatening	J. Craig.
San Diego, California	29.83	757.7	29.90	759.4	55.7	13.2	87	sw.	4	1.8			10 s		sw.	0.45	11.4	cloudy	F. R. Day.
Sandusky, Ohio	28.94	735.1	29.66	753.4	51	10.6	93	sw.	12	5.4			10 n		sw.	1.23	31.2	light rain	B. F. Hough.
Sandy Hook, New Jersey	29.98	761.5	30.01	762.2	32.8	0.4	88	ne.	6	2.7			fg.			0.26	6.6	dense fog	V. P. Chappel.
Sanford, Florida	30.12	765.0	30.16	766.1	59.0	15.0	100	e.	1	0.4			fg.			inap.	inap.	dense fog	J. B. Marbury
San Francisco, California	29.68	753.9	29.75	755.6	46.0	7.8	85	sw.	7	3.1		0	5 s		sw.	0.38	9.7	fair	N. Gorom.
Savannah, Georgia	30.11	764.8	30.20	767.1	52.7	11.5	85	s.	2	0.9			fg.			0	0	dense fog	R. M. Geddings.
Shaw, Fort, Montana	26.37	669.8	30.22	767 6	1	—17.2	72	w.	6	2.7			10 s			0.06	1.5	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.70	754.4	29.88	758.9	65.8	18.8	91	s.	6	2.7		0	2 ks		s.	0	0	clear	E. N. Meekins.
Sitka, Alaska	30.16	766.1	30.23	767.8	32	0.0	78	e	4	1.8		0	0			0	0	clear	F. W. Pickett.
Smithville North Carolina	30.15	765 8	30.19	766.8	58.4	14.7	92	sw.	14	6.3		0	1 s			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.78	705.6	29.91	759 7	21.5	— 5.8	80	calm	0	0		0	0			0.32	8.1	clear	D. Moore.
Springfield, Illinois	29.10	739.1	29.84	757.9	37.5	3.1	85	w.	19	8.5			10 s		w.	0.90	22.9	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.80	680.7	29.93	760.2	55.0	12.8	64	s.	3	1.3			10 s			0.01	0.3	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	29.84	757.9			33.2	0.9	66	e.	27	12.1		0	0			0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.15	689.6	29.98	761.4	49	9.4	71	w.			1		10 s			0.02	0.5	cloudy	R. C. Lord.
Toledo, Ohio	28.88	733.5	29.62	752.3	40	4.4	89	w.	12	5.4			10n;fg			0.94	23.9	light rain	A. Buell.
Unalashka, Alaska	30.43	772.9	30.45	773.4	39	3.9	82	se.	24	10.7		0	4 s		se.	0.68	17.3	fair	Samuel Applegate
Vicksburg, Mississippi	29.74	755.4	30.01	762.2	65	18.3	90	s.	12	5.4			10 s		s.	0.02	0.5	cloudy	C. Dill.
Washington, D. C.	29.89	759.2	30.01	762.2	37.9	3.3	100	calm	0	0			fg.			0.36	9.1	dense fog	T. B. Harrison.
West Las Animas, Colorado	25.72	653.3	29.84	757.9	23	— 5.0	88	w.	2	0.9		0	8 k		w.	0	0	cloudy	F. H. Brandenburg
Wilmington, N Carolina	30.14	765.5	30.20	767.1	59.0	15.0	87	s.	4	1.8		1 c	1 ks;sk		s.	0	0	clear	L. H. Albrecht.
Yankton, Dakota	28.65	727.7	30.07	763.8	5.8	—14.6	73	n.	14	6.3			10 s		n.	1.02	25.9	cloudy	E. H. Thompson.
Yuma, Arizona	29.69	754.1	29.84	757.9	56.0	13.3	85	se.	12	5.4			10 s		sw.	0	0	cloudy	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.98	761.5	30.00	762.0	22.3	— 5.4	72	se.	8	3.6		4 cs	3s;k		w.	0.01	0.3	fair	George Cheruick.
Bluefields, Nicaragua, C. A.					78	25.6		ne.			4	0	3 ks		ne.	0.34	8.6	fair	W. H. Jackson.
Bogota, U. S. C.	21.96	557.7			53.6	12.0	83	se.	4	2		0	2 k		s.	0	0		Joaquin Gomez.
Chimo, Fort, Ungava	29.85	758.2	30.01	762.2	—11	—23.9	100	calm	0	0		10 cs	0	sw.		0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.			30.04	763.0	70.2	21.2	81	n.	2	0.9		0	8 s		ene.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	78	25.6	86	e.			2	3 c	3 s	e.		0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.32	744.7	29.88	758.9	81	27.2	85	calm			0		10 ks		s.	0.94	23.9	cloudy	Francisco J. Olsnarc s.
Rivas, Nicaragua, C. A.					72	22.2	90	ne.			1	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	29.92	760.0	29.99	761.7	—39.0	—39.4		nw.	18	8.0		0	2 s		nw.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.87	758.6	29.87	758.8	76.3	24.6	90	n.	13.0	5.8		0	6 k		n.	0	0	fair	P. Faslani.
Naôs, Bay of Panama	29.85	758.1	29.91	759.8	73.8	23.2	86	n.			4	0	2 ks		n.	0	0	clear	Antonio Fabre.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Alvo, off Gonaives, Hayti, W.I*	30.15	765.8	70	21.1		ene.			6		3		ene.	0	0	sm'h	e.	fine.
S. S. Ailsa, Port au Prince, Hayti, W. I			74.5	23.6	86	e.			1		0			0	0	sm'h		clear.
S. S. Arizona, N. 51° 20′, W. 18° 00′	30.22	767.6	47	8.3		nnw.			2		10		ese.	6 h'r	6 h'r	mod.	wnw.	hazy.
Schr. Arthur Burton, N. 31° 40′, W. 80° 40′ †	30.21	767.3				calm			0					0	0	sm'h		smoky.
S. S. Alps, Ponce, Porto Rico W.I			80	26.7		calm			0		0			0	0	short		clear.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W.I†	30.08	764.0	70	21.1		calm			0					0	0			clear.
S. S. Anchoria, N. 43° 07′, W. 55° 48′ †	30.62	777.7				sse.			4		10		s.	12 h'r	12 h'r	sl't	e.	rainy.
S. S. Caracas, La Guayra, Venezuela *†	30.00	762.0	76.5	24.7	88	ene.			4				ene.	shr's	shr's	mod.	ne.	cloudy.
S. S. Canada, (Fr.) N. 49° 33′, W. 24° 15′	30.09	764.2	51.8	11		ssw.			5		10		wsw.	0	0	large	ssw.	overcast.
S. S. Chalmette, Algiers, La			61	16.1		sse.			1					0	0			foggy.
S. S. Devonia, N. 54° 59′, W. 16° 00′†	30.12	765.0	48	8.9		wsw.			5		10		sw.	8 h'r	8 h'r	h'vy	wsw.	cloudy.
S. E. J. Spicer, N. 42° 20′, W. 27° 25′	30.23	767.8	54	12.2	87	wnw.			1		10		ne.	0	0	mod.	ne.	cloudy.
S. S. England, N. 40° 55′ W. 67° 01′	30.18	766.6				sw.			4		10		sw.	4 h'r	4 h'r	sm'h		foggy.
S. S. Grecian, Glasgow, Scotland	30.15	765.8	51	10.6	93	sw.			5		10		sw.	14 h'r	14 h'r			overcast.
Bg. George, N. 37° 20′, W. 74° 15′ *†	30.12	765.0				ssw.			5		10		sw.	4 h'r	4 h'r	mod.	ssw.	raining.
S. S. Hermann, N. 44° 54′, W. 45° 22′	30.57	776.5	36.5	2.5	92	n.			2		3		n.	0	0	sm'h	n	fair.
S. S. Holland, N. 40° 47′ W. 68° 07′			41	5.0		sw.			4					7 h'r	7 h'r	mod.	sw.	foggy
S. S. Iowa, N. 50° 45′. W. 19° 49′			49	9.4		ne.			3					3 h'r	3 h'r	con.		drizzling.
Bg. L. & W. Armstrong, N. 24° 31′, W. 70° 02′						ne.			5		2		nne.	½h'r	½hr	mod	ne.	clearing.
S. S. Lone Star, N. 24° 48′, W. 83° 35′*†	30.14	765.5	73	22.8		e.			3		0			0	0	small	e.	clear.
S. S. Mentmore, N. 51° 28′. W. 12° 39′ *†	30.26	768.6				wsw.			7		10			0	0	mod.	wsw.	cloudy.
S. S. Marengo, N. 50° 22′ W. 20° 48′ *†	30.18	766.6	51	10.6		ssw.			6		10		wsw.	3 h'r	3 h'r	mod	sw.	overcast.
Schr. Maria Matilda, N. 23° 46′, W. 80° 56′					58	ne.			5		5		ne	0	0			
S. S. Neckar, N. 48° 20′, W 29° 20′	30.17	766.3	48.0	8.9	70	nw.			3–5		2		nw.	rain	rain	long	nw.	clear.
S. S. Orinoco, Sandy Hook, N.J			42	5.6		ene.			1		10			4 h'r	4 h'r			rain & fog.
S. S. Oregon, (Br.) N. 45° 12′, W. 52° 10′*	30.57	776.5	28	— 2.2		ne.			1		10		ne.	4 h'r	4 h'r	mod.	ene.	overcast.
S. S. Ohio, (Am) N. 47° 02′, W. 39° 30′*†	30.39	771.9	37	2.8	81	nnw.			2		9		nne.	1 h'r	1 h'r	mod.	n.	cloudy.
S. S. Pennsylvania, Liverpool, Eng			45	7.2	92	se.			5		7		sse.	1 h'r	1 h'r			drizzling.
S. S Polynesian, N. 43° 46′, W. 46° 27′			33	0.6		nne.			3		8		ne.	0	0			cloudy.
S. S. Rhein, N. 49° 02′, W. 33° 12′						nw.			6		8		nw.	4 h'r	4 h'r	high	nw.	snowing
S. S. Rhynland. Antwerp, Belgium	30.46	773.7	50	10.0	79	s.			4		2		s.	0	0			clear.
S. S. Republic, N. 49° 20′, W. 41° 58 *†	30.31	769.9	29	— 1.7		nnw.			5		8		nw.	0	0	mod.	nw.	fair.
S. S. Scandinavian, N. 55° 16′, W. 8° 21′	30.05	763 3	49	9.4		sw.			6		10		sw.	18 h'r	18 h'r	mod	sw.	drizzling.
S. S. Switzerland, N. 49° 49′, W. 13° 35′*†	30.32	770.1				ssw.			3		10		sw.	0	0	long	w.	overcast.
S. S. Samaria, N. 48° 10′, W. 35° 15′	30.19	766.8	43	6.1		w.			5		9		wsw.	3 h'r	3 h'r	r'gh	w.	cloudy.
S. S. Scythia, N. 50° 57′, W. 21° 10′	30.22	767.6	51	10.6		calm			0		8		wsw.	7 h'r	7 h'r	h'vy	wsw.	hazy.
S. Salisbury, N. 19° 05′, W. 62° 00′	30.02	762 4	75.2	24.0	81	nnw.			4		4 k		nne.	0	0	long	n.	fair.
Bk. Tuck Sing, N. 26° 56′, W 79° 51′*†	30.15	765.8				e.			3		10			0	0	light	e.	cloudy.
S. S. Zeeland, N. 40° 28′, W. 73° 20′*†	30.06	763.5	47	8.3		se.			3		fg.		se.			sm'h		foggy.
S. S. Belgenland, N. 43° 04′, W. 55° 48′			40	4.4	91	se.			4				s.	0	0	long	sw.	overcast.
S. S. State of Georgia, N. 46° 22′, W. 44° 24′ †	30.53	775.4	32	0.0		nnw.			5		5		n.	0	0	light	n.	fair.
Schr. Adda Doane, Kingston, Jamaica, W. I†	30.04	763.0				wnw.			1		2		ne.	0	0			clear.
Bg. Alcira, Maracaybo, Venezuela*	30.00	762.0	79	26.1		nne.			2		3		ne.	0	0			clear.
Bk. Chas. Stewart, N. 35° 50′, W. 12° 10′*†	29.99	761.7				sse.			5		8		sse	0	0	r'gh	n.	fair.
Bk. Cato, N. 39° 17′, W. 64° 05′†	30.35	770.9	62	16.7	72	s.			5		2		ssw.	0	0	mod.	ssw.	clear.
S. S. D. J. Foley, N. 39° —′, W. 74° —′*†	30.05	763.3				ssw.			6		10			0	c	mod.	s.	raining.
S. S. Gellert, N. 42° 39′, W 55° 04′			61	16.1		ese.			4		10		sw.	0	0			overcast.
S. S. Gallia, N. 40° 18′, W 70° 49′	30.03	762.7	45	7.2		ssw.			5		10					sm'h		light rain.
S. S. Labrador, N. 48° 19′, W. 37° 45′ *†	30.28	769.0	27.4	3		nw.			4		5		nnw.	12 minutes		r'gh	nw.	fair.
S. S Habsburg, N. 47° 20′, W. 35° 32′						n.			5		10		n.	8 h'r	8 h'r	mod.	wsw.	overcast.
S. S. New York, N. 25° 05′, W. 83° 45′ *†	30.16	766.1	72	22.2		ese.			4		2		ese.	0	0	sm'h	e	clear.
S. Parker M. Whitmore, N. 38° 00′, W. 35° 40′ *†	30.26	768.6	63	17.2		s.			3		4		ssw.	1 h'r	1 h'r	sm'h		fair.
S. S. Rialto, N. 49° 55′. W. 5° 30′ †	30.47	773 9	52	11.1		se.			2		2?		se.	0	0	sm'h	s.	cloudy?
Bk. Saga, Hampton Roads, Va†	30.08	764.0	56	13.3		ssw.			2–3		3							light rain.
S. S. Virginian, N 42° 44′, W. 57° 00′			56	13.3		s.			6				sw.	0	0	r'gh	ssw.	overcast.
S. S. Wyoming, N. 41° 51′ W. 63° 44′	30.31	769.9	31	— 0.6		se.			2		8		wsw.	2 h'r	2 h'r	mod.	ene.	cloudy.
S. S. W. A. Scholten, N. 47° 04′, W. 44° 47′			26.6	— 3.0	100	nw.			5		4		nw.	1 h'r	1 h'r	3	nw.	squally.
S. S. Westphalia, N. 46° 28′, W. 40° 27′	30.35	770.9	37	2.8	81	n.			5		9		e.	0	0	sm'h	nw.	cloudy
S. S. St. Laurent, N. 42° 45′. W. 57° 30′			64.4	?18.?		ssw.			3		4		s.	5 h'r	5 h'r	sm'h		fair.
S. S. Crescent City, N. 12° 17′, W. 78° 10′*†	29.91	759.7	76	24.4		ne.			5								ne.	fine
S. S. Nurnberg, N. 37° 57′, W. 67° 00′	30.27	768.8	62.6	17.0		se.			2		9		se.	0	0	mod.	se.	fair.
U. S. Navy Yard, Portsmouth, N. H*	30.02?	762.5?	22	— 5.6	86	ne.	20	8.9			10		ne.					sleeting.
U. S. S. Alliance, N. 21° 02′, W. 71° 41′	30.08	764.0	75	23.9	77	ne.			6		8		ne.	light	light	mod.	e.	cloudy.
U. S. S. Kearsarge, Civita Vecchia, Italy	30.45	773.4	55	12.8	68	nw.			3		0							clear.
U. S. S. Lancaster, Gaples, Italy	30.41	772.4	59	15.0	82	n.			0–1		0			0	0	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	30.08	764.0	30	— 1.1	100	nne.			1		10							sleeting.
U. S. S. Quinnebaug, Leghorn, Italy	30.41	772.4	55	12.8	81	calm			0		0					sm'h		clear.
U. S. S. Swatara, Port au Prince, Hayti, W.I	30.05	763.3	74	23.3	72	e.			2		2		e.	0	0	sm'h		clear.
U. S. S. Tennessee, N. 27° 11′, W. 88° 20′	30.07	763.8	73	22.8	76	se.	13	5.8			1		calm	0	0	sl't	ese.	clear.
U. S. S. Trenton, Naples, Italy	30.42	772.7	59	15.0	54	n.			1		2		ne.					clear.
U. S. S. Vandalia, Curacao, W.I	29.97	761.2	79	26.1	78	ene.			2		2		ene.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.44	773.2	60	15.6	49	nne.			1		4		ssw.					d. clouds.
H. M. S. Alecto, N. 13° 28, W. 16° 30′	29.90	759.4	73	22.8		nne.			2		5		nnw.				4	nnw. d. clouds
H. M. Dockyard, Bermuda, Atlantic	30.23	769.1	63	17.2	67	ne.			3		2		ene.					d. clouds.
H. M. S. Himalaya, N. 38° 10′, W. 9° 40′			56	13.3	94	sse.			4		6		sse				5	ese. d. clouds.
H. M. S. Monarch, Syracuse, Sicily	30.40	772.1	59	15.0	65	n.			2		2							
H. M. S. Minotaur, Cagliari, Sardinia	30.49	774.4	54.5	12.5	90	calm			0		0							misty.
H. P. M. S. Douro, Ajuda, W. Africa	29.85	758.1	85.1	29.5	78	s.			3					0	0	1	sw.	
S. S. Lord Olive, N. 46° 54′. W. 43° 16′						nw.			4		8		nw.	0	0	sl't	nw.	cloudy.
S. S. Prussian, Boston Light, Mass	30.08	764.0	30	— 1.1		nnw.			3		10		nnw.	2 h'r	2 h'r			drizzling.
S. S. Dorian, N. 42° 58′, W. 57° 20′	30.44	773.2	38	3.3		e.			5		10		e.	6 h'r	6 h'r	long	se.	overcast.
S. S. Carroll, Halifax, N. S*†	30.46	773 7	30?	—1.1?		ese.			2		10		ese.	snow	snow			he'vy snow.
S. S. Llandaff City, N. 41° 00′, W. 62° 39′ *†	30.30	769.6				s.			2		7		ssw.			mod.	sw.	showery.
S. S. Bothnia, N. 47° 23′, W. 34° 18′	30.28	769.1	51	10.6	93	n.			4		8		ne.	0	0	mod.	n.	gloomy.
S. S. Hevelius, N. 42° 46′, W. 12° 45′ *†	30.14	765.5	52	11.1		se.			6		8		sse.	0	0	sm'h		cloudy.
S. S. Archimede, (It) Messina, Sicily			66	18.9		n.			3		3		n.	0	0			clear.
S. S. Dominion, N. 49° 29′ W. 30° 18′ *†	30.10	764.5	48	8.9	78	w.			4		5		w.			mod.	w.	fair.
S. S. Erin, N. 49° 54′, W. 11° 41′			48	8.9		sw.			4		10		wsw.	0	0	mod.	w.	cloudy.
S. S. Greece, N. 49° 26′ W. 14° 54′ †	30.36	771.1	49	9.4		sse.			4		10		sse.	0	0	mod.	w.	overcast.
S. S. City of Augusta, Savannah, Ga*†	30.20	767.1				wsw.			4		3		sw.	0	0			clear.
S. S. Muriel, off Barnegat, N. J	30.05	763.3	42	5.6		ne.			4		10			4 h'r	4 h'r	r'gh	ene.	foggy.
S. S. Waesland, N. 49° 53′. W. 11° 50′	30.30	769.6	51	10.6		ssw.			5		10		se.	0	0	mod.	wnw.	cloudy.
S. S. Westernland, N. 43° 00′, W. 58° 51′	30.41	772.4	47	8.3	85	ne.			4		10		ne.	6 h'r	6 h'r	light	ne.	cloudy
S. S. Zaandam, New York, N. Y					75	e.			3		fg.			0	0			foggy.
S. S. State of Nebraska, N. 47° 02′, W. 44° 47′*†	30.42	772.7	27	— 2.8		nnw.			4		3		nw.			sm'h		d. clouds.
S. S. State of Nevada, N. 55° 06′, W. 16° 19′ *†	30.11	764.8	47	8.3		wnw.			6		10		w.	7 h'r	7 h'r	high	wnw.	rainy.
S. S. Saxon, Philadelphia, Pa			36	2.2		calm			0		10			0	0			hazy.
S. S. Celtic, Liverpool, Eng*†	30.26	768.6	52	11.1		wsw.			3		10		sw.	2 h'r	2 h'r			gloomy.
S. S. Lepanto, Suez Canal, Egypt	30.08	764.0	72	22.2		n.			2		0			0	0			clear.
S. S. Romano, N. 40° 38′, W. 48° 53′	30.43	772.9	50	10.0		ne.			4		1		ne.	0	0	mod.	se.	clear.
S. S. Salerno, N. 43° 39′, W. 53° 25′†	30.60	777.2	36	2.2		sse.			2		10		wnw.			sm'h	w.	snowy.
S. S. Antonio Lopez, Cadiz, Spain	30.05	763.3				ese.			7	10 c				0	0			hazy.
Bgt. Achsah, N. 43° 25′, W. 66° 56′			42?	5.6?		ese.			7		10		ese.	2 h'r	2 h'r	r'gh	ese.	light rain.
Bk. Adelaide, N. 31° 05′, W. 40° 09′*†	30.39	771.9	70	21.1		sse.			5		2		sse.	0	0	mod.	se.	fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Benjamin Dickerman, N. 24° 20′, W. 81° 00′*†	30.16	766.1	75	23.9		e.			5		1		e.	0	0	short	e.	clear.
Bk. Bayonnaise, N. 35° 58′, W. 11° 02′			59.0	15.0		se.			1		8		e.	0	0	h'vy	se.	covered.
Bk. Celestina, N. 2° 14′ W 24° 25′ *†	29.96	761.0				n.			2		7		var.	0	0	long	nne.	cloudy.
S. Dora, N. 58° 59′, W 27° 00′†	29.47	748.5	32.9	0.5		w.			7		9		w.	8 h'r	8 h'r	h'vy	w.	squally.
S. David Stewart, N. 0° 44′, W 41° 35′			82	27.8		e.			6		5?		nne.	4 h'r	4 h'r	mod.	nne.	overcast?
Schr. Edith R. Seward, N. 34° 49′, W. 69° 43′†	30.32	770.1	60	15.6		s.			2		4		s.	0	0	sm'h	sse.	clear.
Bk. Fred. W. Carlon, Progreso roads, Mexico			80	26.7		ese.			5				ese.	0	0	sm'h	ese.	clear.
Bk. Gloire, N. 21° 30′, W. 33° 39′*	30.09	764.3				ene.			3		0			0	0	long	ne.	clear.
Bk. George Davis, N. 32° 40′, W. 75° 20′*†	30.19	766.8				sse.			4				sse.	0	0	mod	se.	
S. Hedwig, N 40° 31′, E. 18° 40′	30.36	771.1	56.3	13.5	75	nnw.			4		0?			0	0	2	nw.	fair.?
Bk. Hattie G. McFarland, Ship Island, Miss†	30.08	764.0	60	15.6		se.			2					0	0			foggy.
S. Henry, N, 39° 03′, E 5° 21′*	30.49	774.4	57.0	13.9		ese.			3	10 0	0					3	ese.	cloudy.
Schr. John L. Thomas, South Hobbies Cays, C. A †	29.94	760.5	76	24.4	82	ene.			3		1		e.	0	0	mod.	ene.	clear.
Bg. John Welsh, jr., Mobile Bay †	30.07	763.8				se.			2		5		se.					fair.
Bg. Lillian, N 21° 15′, W. 59° 00′†	30.04	763.0	69	20.6		e.			2		7			3 h'r	3 h'r	mod.	ne.	squally.
S. S. Laurel, Key West, Fla †	30.11	764.8	69	20.6		e.			2		3		ese.	0	0			clear.
Bg. L. F. Munson, N. 39° 18′, W. 61° 31′			56	13.3		wsw.			2		1		wsw.	0	0	sm'h		clear.
S. S. Madrid, Shields, Eng †	30.17	766.3	52	11.1	86	wsw.			3		7		wsw.	0	0			fair.
Schr. Minnie A. Bonsall, Jacksonville, Fla*†	30.20	767.1				sw.			1					0	0			clear.
Schr. Norena, N. 18° 15′, W. 65° 24′						nne.			4		1		ene.	0	0	sm'h		clear.
S. S. Radnorshire, Port Said, Egypt *†	30.10	764.5				nw.			2		2		nw.	0	0	mod.	nw.	clear.
S. Stephen D. Horton, N. 49° 00′, W. 14° 30′†	30.30	769.6				s.			4		10		sw.	1 h'r	1 h'r	sm'h	w.	cloudy.
Bk. Silica, N. 39° 56′, W. 40° 19′*	30.25	768.3				nne.			7		10		nne.	rain	rain	h'vy	var.	threatening.
Bg. Teneriffe, N. 26° 20′, W. 75° 10′	30.19	766.8				e.			4		1		e.	0	0	2	ene.	fine.
S. S. City of Alexandria, Progreso Roads, Mexico*†	29.95	760.7	70?	21.1?		ene.			3								ene.	d. clouds.
S. S. D. J. Foley, N. 39° 00′, W. 74° 00′*†	30.05	763.3				ssw.			6								s.	rainy.
S. S. Mansdam, N. 49° 30′, W. 9° 30′*	30.41	772.4	52.7	11.5		ssw.			2							small	sw.	fair.
S. S. Schiedam, N. 41° 48′, W. 60° 13′			48	8.9		var.			2							sm'h		hazy.
S. S. Strathleven, N. 37° 10′, W. 63° 00′*	30.38	771.6	62.0	16.7	61	se.			1		4		s.			3	se.	d. clouds.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.85	758.2	69	20.6	64	ne.			2		0							clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.80	756.9	67.5	19.7	72	n			3		0					1	n.	misty.
H. M. S. Opal, Simons Bay, Cape Colony	29.83	757.7	68	20.0	90	w.			4		6	w.						squally.
H. P. M. S. Bengo, S. 7° 23′, E. 11° 16′	29.86	758.5	83.3	28.5	89	sw.			3		2		sw.	5 minutes		2	sw.	d. clouds.
S. S. George S. Homer, S. 53° 57′ W. 57° 11′ *†	29.58	751.3				s.			6		9		sw.	0	0	rg'h	ssw.	overcast.
Bk. Godeffroy, S. 20° 59′, W. 28° 20′	30.05	763.3	80.6	27.0	72	nne.			4		3 k		ne.	rain	rain	med.	e;n.	clear.
S. Henry Failing, S. 54° 35′, W. 61° 29′*†	29.61	752.1	43	6.1		s.			4		9		sw.	2 h'r	2 h'r	sm'h	sw.	cloudy.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.10	764.5	82	27.8		w.			3		2		w.	0	0			clear.
Bkt. Levanter, S. 34° 54′, W. 54° 18′*	30.02	762.5	68	20.0		wnw.			4		0			0	0	sm'h		clear.
S. St. David, S. 15° 32′, W. 29° 24′*†	30.12	765.0	82	27.8	79	nne.			4		2		ne	½ h'r	½ h'r	light	ne.	fine.
Bk. Winifred, S. 21° 30′, W. 38° 38′*†	30.00	762.0											nne.	0	0		ene.	
S. Orealia, S. 22° 31′, W. 27° 37′*	30.05	763.3				nne.			3		5		ne.	1 h'r	1 h'r	sm'h		fair.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 20° 30′, E. 146° 30′	30.08	764.0	75	23.9	81	ssw.			1		2					sm'h		clear.
U. S. S. Essex, Canton, China	30.02	762.5	49	9.4	78	nnw.			2		8							cloudy.
U. S. S. Hartford, N. 0° 09′, W. 113° 50′	29.80	756.9	78	25.6	95	ne.			3		2		ne.	0	0	sm'h		fair.
U. S. S. Juniata, Shanghai, China	30.26	768.6	31	— 0.6	79	nnw.			1		0			0	0			clear.
U. S. S. Monocacy, Shanghai, China	30.24	768.1	33	0.6	61	nw.			1		0							clear.
U. S. S. Palos, Tientsin, China	30.17	766.3	27	— 2.8		w.			1		0							clear.
U. S. S. Ranger, Corinto, Nicaragua	29.90	759.4	75	23.9	77	ne.			4		0			0	0	sm'h		clear.
H. M. S. Audacious, Victoria harbor, Hong Kong, China			60	15.6	82	e.			7		5		ne.					d. clouds.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	29.99	761.7	56	13.3	87	ne.			1-3		10		calm			sm'h		overcast.
H. M. S. Champion, Shanghai, China	30.31	769.9	30	— 1.1	89	calm			0		10							overcast.
H. P. M. S. Tamega, Macao, China	30.02	762.4	55.4	13.0	82	n.			3		10			0	0			overcast.
S. S. Oceanic, N. 38° 11′, E. 151° 09′	29.72	754.9	43	6.1	92	nne.			6		4		ne.	24 h'r	24 h'r	7	ne.	clear.
S. S. Oregon, Portland, Oregon†	29.82	757.4	37	2.8	?	calm			0		0							clear.
S. S. Willamette, N. 46° 42′, W. 124° 36′†	29.83	757.7	37	2.8	90	ene.			5		0			snow	snow	long	e.	clear.
S. S. Alameda, N. 30° 47′, W. 142° 42′†	29.88	758.9	64	17.8		e.			5		4		e.	0	0	mod.	e.	fair.
S. S. Ancon, San Francisco, Cal	29.68	753.9	46	7.8	77	nw.			2		0			0	0			clear.
S. S. City of Chester, San Francisco, Cal †	29.73	755.1	45	7.2	100	sw.			2		10			h'vy	h'vy			
S. S. Queen of the Pacific, Seattle, Wash. Ter	29.86	758.4	29	— 1.7	89	nnw.			1		0			2 h'r	2 h'r			clear.
S. S. State of California, N. 41° 06′, W. 124° 30′†	29.66	753.4	43	6.1	75	n.			2		0					long	nw.	clear.
S. S. City of Rio de Janeiro, N. 30° 32′, E. 148° 33′†	29.83	757.7				wnw.			6		6		wnw.			cross	w.	fair.
S. S. Colima, N. 25° 37′, W. 113° 22′†	29.97	761.2	64	17.8	73	nw.			2		9		calm	0	0	small	nw.	cloudy.
S. S. Granada, Acajutla, San Salvador	29.86	758.4	73	22.8	63	ne.			1		0			0	0	light		clear.
S. S. San Blas, Panama, Panama†	29.86	758.4	74	23.3	95	nw.			2		5		n.	0	0			fair.
S. Carondelet, N. 11° 47′, E. 134° 05′ *†	29.96	761.0				ene.			4		0			0	0	mod.	ene.	clear.
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru *†	29.96	761.0	71	21.7	100	calm			0		10		sse.			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru*	29.89	759.2	72	22.2	95	calm			0		8		calm			long	nw.	foggy.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	30.04	763.0	58	14.4	70	ssw.			1		4							d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.17	766.3	62.3	16.8	89	calm			0		10					sm'h		raining.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	30.05	763.3	57	13.9	88	calm			0		8							d. clouds.
S. S. Australia, S. 35° 55′, E. 170° 00′	30.33	770.4	66	18.9	100	nnw.			4		3		n.	0	0	mod.	n.	threatening.
S. S. Zealandia, S. 13° 40′, W. 170° 54′	30.09	764.3	83	28.3	83	nw.			6		7		nw.	12 h'r	12 h'r	hv'y	w.	squally.
S. Grecian, S. 56° 04′, W. 71° 49′†	29.83	757.7	48	8.9	78	s.			4		10		sw.	0	0	long	w.	cloudy.
S. Ismir, S. 35° 26′, W. 91° 58′*†	30.44	773.2				sse.			5		3		sse.	0	0	r'gh	sse.	clear.
S. St. Francis, S. 2° 30′, W. 112° 00′*†	29.85	758.2	75	23.9	86	ese.			4		5		e.	4 h'r	4 h'r	mod.	se.	fair.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.81	757.2	67	19.4		calm			0		4		nw.			sm'h		
H. M. S. Sylvia, off Sandy Point, Patagonia	29.73	755.1	50	10.0	72	sw.			3		2							d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, S. 28° 31′, E. 38° 59′	29.86	758.4	79	26.1	70	e.			1		0			0	0	light	se.	clear.
H. M. S. Euryalus, Suakin, Egypt	29.88	758.9	76	24.4	86	n.			4		0							blue sky.
H. M. S. Tourmaline, Tamatave, Madagascar	29.84	757.9	83	28.3	67	nne.			2		2							d. clouds.
S. S. Port Phillip, S. 35° 29′, E. 125° 12′	29.91	759.7	68	20.0	90	se.			3								ne.	cloudy.
H. M. S. Magpie, N. 6° 10′, E. 99° 36′	29.86	758.4	81.5	27.5	83	sw.			1		6							d. clouds.

International Chart I. February 5, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 6, 1884,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.98	761.5	73.4	23.0	85	n.			3		6			0	0	cloudy	Roziere.
Algiers			30.35	770.9	65.1	18.4	57	s.			3		10			0	0	covered	Théve.
La Galle			30.47	773.8	59.7	15.4	75	e.			2		3			0	0	pretty fair	Fonfrède.
Tunis			30.48	774.3	58.3	14.6	78	nw.			2		2			0	0		Delord.
Geriville					48.2	9.0	48	se.			4		4			0	0	cloudy	Forfert.
Laghouat			30.42	772.7	59.4	15.2	78	calm			0		0			0	0	clear	Abraham.
Biskra			30.50	774.6	59.7	15.4	81	w.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.95	760.7	66.7	19.3	85	calm	0	0			8 s			0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.94	760.5	30.13	765.3	58.5	14.7	85	se.	5	2.2			1		n.	0	0	clear	Com. J. Shortt, R.N.
Melbourne, Victoria	29.88	758.9	29.97	761.2	70.3	21.3	64	ene.	6	2.7			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.81	757.2	30.38	771.6	46.6	8.1	53	ne.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.49	749.0	30.28	769.0	44.4	6.9	81	w	5.6	2.5			10			0.004	0.1		Dr. Wierzbiski
Eperies	29.40	746.7	30.30	769.7	43.9	6.6	71	calm			0	1 cs				0	0		Julius Mikolik.
Gratz	29.09	738.8	30.38	771.7	43.8	6.4	68	s.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.89	733.8	30.37	771.3	46.8	8.2	67	wnw.			2		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.95	735.4	30.35	770.9	39.0	3.9	84	ese.			1		0			0	0	clear	The Staff.
Lemberg	29.23	742.5	30.26	768.5	40.8	4.9	94	n.			3		10			0.020	0.5		Dr. T. Stanecki.
Pola	30.24	768.0	30.35	770.9	43.7	6.5	98	wnw.			3		5			0	0		I. R. Hydrographic Office.
Szathmar	29.84	758.0	30.42	770.2	44.6	7.0	78	w.			4		7			0	0		Joseph Midliuszky, S. J
Szegedin	30.06	763.4	30.34	770.7	46.4	8.0	76	w.			1		2			0	0		Karl Stancel.
Trieste	30.29	769.4	30.39	771.9	41.0	5.0	90	calm			0		10			0	0		Royal Academy.
Vienna	29.62	752.3	30.36	771.1	43.5	6.4	75	e.			1		2			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.84	732.4	30.29	769.4	30.7	— 0.7	98	e.			0–1		2					raining	
Brussels	30.10	764.4	30.30	769.6	42.1	5.6	71	wsw.			1	2		wsw.		0	0		
Furnes	30.28	769.1	30.30	769.6	45.0	7.2	81	sw.			0–1		10			0	0		
Maeseyck	30.18	766.5	30.30	769.7	45.0	7.2	74	sw.			1		3			0	0		
British.																			
Aberdeen	29.86	758.4	29.96	761.0	45.5	7.5	80	sw.	5	2.2			10			0	0	misty	W. Boswell.
Bidston, Liverpool Obs'y			30.15	765.8	46.5	8.1	65	sw.	14	6.3			9					overcast	John Hartnup.
Bolton, Sharples	29.61	752.1	30.15	765.8	43.6	6.4	88	ssw.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.73	755.1	30.12	765.0	46.5	8.1	77	w			3		9			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I.	30.00	762.0	30.03	762.7	77	25.0	77	ne.			2		6					d. clouds	Corp'l C. McGregor, A.H.C
Cardington					43.6	6.4	84	w.			0.6		10					overcast	John McLaren.
Chatham, School M. E.	30.10	764.5	30.27	768.8	46.1	7.8	78	s.			1		10					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	30.01	762.2	30.24	768.1	55.7	13.2	79	se.			3		9					d. clouds	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.68	753.9	29.92	760.0	85	29.4	76	e.			1		2					d. clouds	J. W. Smith.
Galway, Queen's College	29.99	761.7	30.03	762.7	46	7.8	84	sw.			1		4			0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	63.9	17.7	94	e.			4		8					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	30.08	764.0	30.26	768.6	44.9	7.2	73	wsw.					10					overcast	The Staff.
Guernsey	29.96	761.0	30.26	768.6	43.0	6.1	94	s.			1		1					blue sky	A. Collenette, F.R.M.S.
Kew, Observatory	30.23	767.8	30.27	768.8	45.2	7.3	72	sw.	6	2.7			10					misty	The Staff.
Leicester, Museum	29.94	760.5	30.20	767.1	45.4	7.4	84	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.26	768.6	30.34	770.6	63.0	17.2	64	nw.			3					0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.18	766.6	71.0	21.7	72	se.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	30.01	762.2	30.24	768.1	45.8	7.7	69	wsw.			2		10					overcast	The Staff.
Plymouth	30.14	765.5	30.22	767.6	47.4	8.6	75	sse.			1		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.77	756.1	29.88	758.9	42	5.6	83						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.22	767.6	30.29	769.4	41.4	6.9	64	ne.			2		9					d. clouds	W. H. Lyne.
Sheffield	29.86	758.4	30.15	765.8	48.2	9.0	68	ssw.			2		2					blue sky	W. F. Cooper.
Silloth Rectory	30.04	763.0	30.07	763.8	45.8	7.7	92	ssw.			3		10			0.040	1.0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.16	766.1	45.3	7.4	80	sw.	15	6.7			10			0.085	2.2	overcast	Rev. S. J. Perry.
Strathfield Turgiss					44.6	7.0	86	sw.			1.0		10					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.04	763.0	30.06	763.5	49.0	9.4	82	ssw.	23	10.3			8					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	30.01	762.2	30.41	772.4	58.3	14.6	66	sw.	3.1	1.4		0	0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.67	753.6	29.72	754.9	18.0	— 7.8		calm	0	0		10 c	0	w.		0.600	15.2	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.81	757.2	29.85	758.2	38	3.3	94	w.	5	2.2			10 n		w.	0.070	17.0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.81	757.2	29.87	758.7	23	— 5.0	92	w.	1	0.4		2 k	8 ks	w.	w.	0.30	7.6	cloudy	G. A. Blair.
Cornwall, Ontario	29.68	753.9	29.88	758.9	19.0	— 7.2	90	nw.			1		10 s			0.230	5.8	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.85	758.2	29.90	759.4	19.5	— 6.9		w.			1		10 s			0.500	12.7	overcast	H. A. Johnson.
Father Point, Quebec*	29.84	757.9	29.86	758.4	17	— 8.3	67	nw.	8	3.6			8 n		calm	0.43	10.9	cloudy	J. McWilliams
Fort Garry, Manitoba*	29.47	748.5	30.43	772.9	—33	—36.1	100	n.	8	3.6			10 n			0	0	fair	James Stewart.
Fredericton, N. B.	29.86	758.4	29.93	760.2	30.0	— 1.1	89	ne.	2	0.9			10 s			0.600	15.2	overcast	Prof. Thos. Harrison.
Grand Manan, N. B.	29.86	758.4	29.91	759.7	38	3.3	96	calm	0	0		0	8 s		nw.	0.98	24.9	light fog	J. Chipman Seeley
Granton, Ontario	28.70	729.0	29.85	758.2	26.2	— 3.2	98	calm	0	0			10 n			inap.	inap.	snowing	Jas. Grant.
Halifax, N. S*	29.78	756.4	29.92	760.0	41	5.0	92	sw.	1	0.4		10 k	0			1.117	28.3	cloudy	A. Allison.
Hamilton, Ontario	29.41	747.0	29.83	757.7	32.2	0.1	89	sw.			1	10 cs	0	sw.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.51	749.5	29.87	758.7	25	— 3.9	88	w.	10	4.5			10 n			0.22	5.6	heavy snow	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.76	755.9	29.80	756.9	43.0	6.1	92	e.	2	0.9		10 c	0			inap.	inap.	overcast	C. H. Rigby.
London, Ontario	28.89	733.8	29.83	757.7	28.8	— 1.8	94	n.			1		10 n			0.78	19.8	rainy	E. B. Reed.
Medicine Hat, N. W. T.	27.80	706.1	30.51	774.9	—24	—31.1	68	s.	0	0		0?	0?			0	0	cloudy?	John Ewart.
Minnedosa, N. W. T	28.23	717.0	30.58	776.7	—33	—36.1	100	nw.	5	2.2		0	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	29.68	753.9	29.90	759.4	25	— 3.9	96	nw.	1	0.4			10 s			0.45	11.4	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.68	753.9	29.92	760.0	19.2	— 7.1	84	nnw.					10 s			inap.	inap.	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.18	741.2	29.92	760.0	17	— 8.3	83	e.	10	4.5			10 n		e.	0.03	0.8	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.09	738.9	29.86	758.4	24.3	— 4.3	86	w.			1		10 k					snowing	Wm. O'Connor, M.A.
Port Arthur	29.44	747.8	30.22	767.0	4	—15.6	79	n	3	1.3			10 n			0	0	cloudy	W. P. Cooke,
Port Dover, Ontario	29.11	739.4	29.83	757.7	31	— 0.6	100	n.	5	2.2			10 n			0.17	4.3	light rain	J. Morgan.
Port Stanley, Ontario	29.16	740.7	29.83	757.7	32	0.0	92	e.	4	1.8			10 n		e.	0.24	6.1	light rain	M. Payne.
Qu Appelle, N. W. T	27.90	708.6	30.65	778.5	—32	—35.6		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.52	749.8	29.90	759.4	20	— 6.7	96	sw.	16	7.2		10 ck	0	sw.		0.40	10.2	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.47	748.5	29.95	760.7	15	— 9.4	83	se.	4	1.8			10 n			0.20	5.1	cloudy	W. H. McIntyre.
St. Andrews, N. B.	29.82	757.4	29.87	758.7	34	1.1	99	calm	0	0			fg.			0.35	8.9	dense fog	
St. John, N. B	29.76	755.9	29.91	759.7	35.0	1.7	100	sw.	4	1.8			10 n			0.515	13.0	foggy	G. Hutchinson.
St. Pierre, N. F.			29.76	756.0	41.0	5.0		sw.			2								The Commandant.
Saugeen, Ontario*	29.12	739.6	29.87	758.7	22	— 5.6	96	ne.	8	3.6			10 s			0.25	6.3	cloudy	
Stratford, Ontario	28.51	724.1	29.85	758.2	25.1	— 3.8	97	calm	0	0			10 s					snowing	W. McBride, M.A.
Sydney, C. B*	29.72	754.9	29.78	756.4	42	5.6	96	w	8	3.6			10 n		w.	0.86	21.8	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.47	748.5	29.88	758.9	27	— 2.8	92	ne.	2	0.9			10 n			0.13	3.3	light snow..	Magnetic Observatory.
Woodstock, Ontario	28.75	730.2	29.86	758.4	27.5	— 2.5	92	w.	9	4.0			10 n			0	0		Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.88	758.9	29.95	760.7	38	3.3	96	sw.	5	2.2		10 k	hz	w.		1.42	36.1	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.86	758.4	29.89	759.2	70.5	21.4	73	sw.				0	5 ks			0.080	2.0	fine	I. Garfelt.
Cape Town, The Castle	29.78	756.4			70.0	21.1	50	s.				7 c;k	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.81	706.4			70.	21.1	39									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.80	756.8	29.87	758.7	63.1	17.3	87	n.			3	3						fair	Samuel Redolez.
Iquique	29.80	756.8	29.82	757.5	69.6	20.9	84	nw.			2							foggy	Rafael Moreno.
Niebla	29.65	753.2	29.76	755.9	48.2	9.0	86	e.			4		8		e.	0	0	misty	Federico Köhling.
Punta Caldera	29.74	755.4	29.83	757.6	66.2	19.0	85	nw.			2	10 c	c	nw.	nw.			cloudy	Manuel Tobar.
Punta Corona	30.02	762.5	30.21	767.2				sw.			3	6 n		nw.		0	0	fair	Francisco Alvarado.
Valparaiso	29.70	754.4	29.84	757.9	68.4	20.2	87	sw.			0	0	0					clear	Paez-i-Ampuero.
Chinese (sub-series).																			
Zi-Ka-Wei, near Shanghai	30.33	770.3	30.35	770.9	27.0	— 2.8	90	wnw.	6.7	3.0		ck	8 k	w.		0	0	almost cov'd	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.04	763.1	30.09	764.3	44.1	6.7	88	w.	16	7			10					foggy	Oversergent Fischer.
Fanöe	30.08	763.9	30.10	764.4	41.7	5.4	95	wsw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.56	750.7	29.60	751.8	— 6.9	—21.6	100	ene.			4		10						S. Kleinschmidt.
Ivigtut, Greenland	29.61	752.2	29.63	752.7	— 8.1	—22.3		calm			0		10						
Jacobshavn, Greenland	29.85	758.2	29.90	759.4	—29.2	—34.0		calm			0		0						
Stykkisholm, Iceland	29.20	741.6	29.24	742.7	20.5	— 6.4	87	sw.			2		10					snowing	A. O. Thorlacius.
Thorshavn	29.68	753.9	29.71	754.5	35.1	1.7	84	w.	9	4.			6						Overloerer Bergh.
Upernavik, Greenland	29.94	760.4	29.98	761.6	—29.4	—34.1		e.			2		1						
Vestervig	29.88	758.9	29.97	761.2	42.1	5.6	97	sw.			6		10					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	29.88	758.9			63.5	17.5		n.	2.2	1.0		0	8 k			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.62	752.4	30.28	769.2	55.4	13.	57	se.			1		6			0	0	misty	M. Labroue, Director.
Alençon, Normal School	29.74	755.4	30.29	769.4	36.0	2.2	97	calm			0		0			0	0	clear	M. Nicot, Director.
Arras, Normal School					35.6	2	88	e.			1		10			0	0	covered	M. Ungerer, Director.
Avignon, Normal School	30.33	770.3	30.41	772.3	54.7	12.6	59	nnw.			1				se.	0	0		M. Giraud, Director.
Bar-sur-Seine	29.73	755.1	30.31	769.8	40.1	4.5	73	se.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.06	763.5	30.34	770.6	36.0	2.2	89	se.			1		10			0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.37	746.0	30.29	769.3	46.4	8	77	s.			4		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.92	759.9	30.18	766.6	52.3	11.3	71	se.			2		2			0.004	0.1	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.75	755.7	30.32	770.2	44.1	6.7	97	ene.			1		1		ene.	0	0	clear	M. Sauvageot, Director.
Brest, Naval Observatory	30.00	762.0	30.24	768.2	48.2	9.0	83	se.			1		2		se.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.22	767.7	30.31	769.8	34.5	1.4	93	sse.			1		10			0	0	foggy	M. Berson, Director.
Châlons-sur-Marne, N.Sch	30.02	762.5	30.35	771.0	28.9	— 1.7	82	s.			1		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.78	756.5	30.34	770.5	32.7	0.4	88	e.			1		10			0	0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	29.88	733.5	30.24	768.2	54.5	12.5	41	nw.			1		0			0	0	light mist	M. Alluard, Director.
Cluny, Normal School	29.45	747.9	30.33	770.3	37.8	3.2	93	e.			1		0			0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.43	747.6	30.34	770.6	34.3	1.3	78	nw.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.89	708.5	30.48	774.2	49.1	9.5	64	n.			1		1			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.24	742.8	30.40	772.1	51.6	10.9	70	n.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.57	751.0	30.35	771.0	46.4	8	72	nw.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.66	728.0	30.28	769.1	50.0	10	74	se.			1	c			se.	0	0		M. Delorme, Dir.
Lescar, Normal School	29.60	751.8	30.16	766.1	59.2	15.1	48	ese.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.14	765.5	30.24	768.1	46.8	8.2	59	ene.			1		2		ne.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.21	742.0	30.29	769.4	50.4	10.2	55	s.			4	2 c			w.	0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	30.03	762.7	30.35	771.0	32.4	0.2		ese.			1		10			0	0	foggy	M. Richard, Director
Marseille, Observatory	30.11	764.7	30.38	771.7	57.6	14.2	59	e.			0–1		3		wsw.	0	0		M. Stephan, Director.
Montlouis	25.03	635.8	29.87	758.8	40.0	4.8	49	w.	13.0	5.8			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.26	768.5	30.37	771.3	51.4	10.8	82	e.			2		5	nw.		0	0	cloudy	M. Galzin, Director.
Nantes, Observatory	29.53	750.0	30.35	771.0	32.0	0.0	89	wsw.			1					0	0	foggy	M. Hasse, Director.
Perpignan, Observatory	30.12	765.0	30.28	769.1	34.9	1.6	97	ene.			0–1		10			0	0	foggy	M. Larocque, Director.
Pic-du-Midi, Summit	30.18	766.6	30.30	769.5	54.3	12.4	59	e.	5.6	2.5			1			0	0		Dr. Fines, Director.
Privas, Normal School	21.34	541.9			33.4	0.8		sw.			2		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Puy de Dôme Obs'y, Summit	29.28	743.8	30.37	771.5	49.3	9.6	66	s.			4		n		s.	0	0		M. Tailleu.
Rochefort, Naval Obs'y	25.34	643.7			44.8	7.1	25	sw.			1		2			0	0		M. Alluard.
Roche-sur-Yon, N. School	30.21	767.2	30.24	768.0	50.7	10.4	70	ese.			1		0			0	0	clear	Lt. E. Decante, Director.
Rodez, Normal School	30.01	762.2	30.23	767.8	47.8	8.8	81	se.			1					0	0		M. Brotier, Director.
Rouen, Normal School	28.09	713.6	30.27	768.8	48.4	9.1		se			1		1 ks		nw.	0	0	clear	M. Seger, Director.
St. Lô, Normal School	30.28	769.1	30.33	770.3	36.7	2.6	89	w.			1		10			0	0	foggy	M. Mouillot, Dir.
Saint Maur, Observatory																			M. Delaplanche, Dir.
Toulouse, Observatory	30.16	766.0	30.32	770.2	31.6	— 0.2	100	ese.			1		10			0	0	covered	M. Renou, Director.
Tours	29.52	749.7	30.24	768.2	53.4	11.9	75	sse.			6		2	w.		0	0	slightly cl'dy	M. Baillard, Director.
Versailles, Observatory	30.13	765.2	30.32	770.0	36.0	2.2	89	ene.			1					0	0	misty	M. de Tastes.
Sub-series.	29.81	757.2	30.30	769.7	32.7	0.4	92	e.			1		10			0	0	misty	Dr. A. Berigny, Director.
St. Martin du Hinx	30.03	762.8	30.18	766.6	46.4	8.0	89	n.	5.8	2.6		c	9 k	se.		0	0		M. Cartier, Director.
German.																			
Ansbach	28.83	732.3	30.31	770.7	39.6	4.2	65	calm			0		0			0	0		Prof. Jnedt.
Bamberg	29.43	747.4	30.28	769.0	41.4	5.2	70	calm			0		4 ks			0	0		Prof. Dr. Hoh.
Berlin	30.12	765.0	30.27	768.8	43.2	6.2	74	w.			2		10			0.008	0.2		Meteorological Institute
Breslau	29.77	756.2	30.31	769.8	43.3	6.3	79	w.			2		10			0.004	0.1		Royal University Obs'y
Carlsruhe	29.86	758.5	30.35	770.9	34.7	1.5	71	calm			0		1	sw.		0	0		Albert Senz.
Cassel	29.56	750.7	30.27	768.8	41.0	5.0	71	s.			1		7	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.94	760.4	30.32	770.1	39.7	4.3	84	sw.			1		6			0	0		Physical Society.
Friedrichshafen	28.90	734.1	30.40	772.1	33.8	1.0	79	w.			1		10			0	0	misty	Wilhelm, Chief Tel.
Hamburg	30.14	765.5	30.23	767.8	41.2	5.1	90	wsw.			3		10			0.043	1.1		E. Preller.
Kiel	30.17	766.3	30.19	766.7	43.0	6.1	90	wsw.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.87	758.8	30.31	769.9	40.6	4.8	87	w.			2		10	w.				rainy	H. Leppig, Asst.
Magdeburg	30.09	764.3	30.29	769.3	42.3	5.7	79	wsw.			2		10			0	0	foggy	Weather Observatory.
Memel	30.03	762.8	30.08	764.0	38.1	3.4	100	nw.			4		10					foggy	Issermann.
Munich	28.47	723.0	30.35	770.8	43.7	6.5	70	ne.			1		1	n.		0	0	misty	Central Station.
Neufahrwasser	30.13	765.2	30.14	765.6	43.9	6.6	90	w.			3		10			0	0		A. Lothes.
Neustadt, Palatinate	29.78	756.3	30.31	769.8	35.6	2.0	86	calm			0		10			0	0	dense fog	Prof. Dicknether.
Stuttgart	29.33	744.9	30.25	768.4	41.9	5.5	70	n.			1		1	nw.		0	0		Prof. Dr. Schoder.
Wustrow	30.14	765.6	30.17	766.2	40.3	4.6	94	sw.			4		10			0	0	foggy	Profs. Brandes & Reimer
Greek.																			
Athens	29.92	759.9	30.31	769.8	55.4	13.0		n.			2.0	0	2			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.95	760.8	30.01	762.1	70.9	21.6	61	sw.	23.0	10.3			0			0	0	blue sky	
Deesa	29.46	748.3	29.94	760.6	74.2	23.4	18	nne.	6.0	2.7			0			0	0	blue sky	
Bombay	29.84	758.0	29.88	758.9	76.9	24.9	74	nnw.	17.0	7.6			0			0	0	blue sky	
Poona, Yarrowda	28.00	711.0	29.83	757.6	84.7	29.3	25	wsw.	4.0	1.8			0			0	0	blue sky	
Belgaum	27.33	694.2	29.84	758.0	82.0	27.8	22	ese.	4.0	1.8			0			0	0	blue sky	
Lahore	29.18	741.1	29.95	760.8	60.1	15.6	47	wnw.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.94	734.9	29.86	758.5	63.8	17.7	34	nw.	3.0	1.3			0			0	0	blue sky	
Agra	29.34	745.2	29.92	760.1	63.3	17.4	34	w.	6.0	2.7			0			0	0	blue sky	
Nagpur	28.85	732.8	29.90	759.5	75.9	24.4	34	ese.	5.0	2.2			2	w.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.57	725.7	29.96	761.0	69.0	20.6	28	nw.					0			0	0	blue sky	
Lucknow	29.51	749.6	29.91	759.6	61.3	16.3	43	n.	10.0	4.5			0			0	0	misty	
Allahabad	29.60	751.8	29.92	760.1	63.8	17.7	53	calm	0	0			0			0	0	blue sky	
Patna	29.70	754 4	29.89	759.2	66.0	18.9	43	w.	6.9	3.1			0			0	0	blue sky	
Hazaribagh	27 85	707.4	29.93	760.1	62.2	16.8	28	wnw	6.0	2.7			0			0	0	blue sky	
Cuttack	29.81	757.2	29.89	759 3	77.8	25.4	42	nw.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	29.88	759.0	29.90	759.6	67.5	19.7	56	wnw.	1.0	0.4			0			0	0	blue sky	
Dhubri	29.78	756.3	29.90	759.4	65.4	18.6	53	calm	0	0			0			0	0	blue sky	
Chittagong	29.81	757 2	29.90	759.6	70.6	21.4	82	calm	5.7	2.6			1			0	0	d. clouds	
Sibsagar	29.60	751.8	29.95	760 7	59.3	15.2	85	ne.	2.0	0.9			10	w.	w.	0	0	overcast	
Jeypore	28.49	723.7	29.98	761.4	66.7	19.3	43	nnw.	9.5	4.2			0			0	0	blue sky	
Zanzibar	29.82	757 4	29.84	758.0	82.8	28.2	60	ne.	10.1	4.5			4	n.	nne.	0	0	d. clouds	
Bellary	28.35	720.1			84.0	28.9	26	e.	2	0.9		0	0			0	0	blue sky	
Trichinopoly	29.61	752.1			86.3	30.2	21	ene.	0.3	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.94	760.5	30.37	771.3	45.1	7.3	69	calm	0	0			0			0	0		Prof. Giovanni Olodig.
Milan	29.85	758.1	30.39	771.8	47.3	8.5	59	sw.	5.6	2.5			0			0	0		Prof. G. V. Schiapparelli
Padua	30.25	768.4	30.37	771.3	37.9	3.3	93	sw.	0.7	0.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.44	747.7	30.37	771.5	46.8	8.2	45	e.	0.7	0.3			0			0	0		Prof. F. F. Denza.
Genoa	30.20	767.0	30.39	772.0	53.2	11.8	71	se.	6.3	2.8			10	e.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.33	770.3	30.38	771.6	46.4	8.0	62	n.	9.4	4.2			0			0	0		Prof. Luigi Guidi.
Florence	30.15	765.7	30.41	772.3	46.8	8.2	78	ne.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	30.29	769.3	30.36	771.1	51.8	11.0	76	n.	2.5	1.1			3			0	0		Prof. P. Monte.
Rome	30.19	766.9	30.37	771 4	55.0	12.8	49	n.	0	0			0			0	0		Prof. P. Tacchini.
Lecce	30.06	763.6	30.32	770 2	56.5	13.6	73.	nw.	15.0	6.7			1	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.43	747.6	30.35	770.9	52.2	11.2	75	se.	1.8	0.8			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	30.16	766.0	30.41	772.5	55.9	13.3	64	ne.	3.1	1.4			0			0	0		Prof. G. Cacciatore
Syracuse	30.32	770.0	30.36	771.2	56.8	13.8	65	wnw.	4.3	1.9			0			0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.84	758.0	30.38	771.7	54.3	12.4	64	se.	0	0			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.06	763.4	30.09	764.3	32.0	0.0	87	calm			0		10 k		sw.	0	0	cloudy	H. Hattori.
Awomori	30.06	763.5	30.09	761.3	27.6	— 2.4	89	sw.	0.8	0.4			10s;ck		sw.	0	0	overcast	K. Ogawa.
Hakodate	30.11	764.7	30.12	765.0	30.0	— 1.1	86	n.	6.0	2.7			9 s		s.	0	0	overcast	Y. Souma.
Hamamatsu	29.96	761.0	30.06	763.5	39.1	3.9	94	calm			0		10 n			0.110	2.8	raining	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.08	764.1	30.10	764.5	38.7	3.7	84	n.	5.5	2.4			10 s		w.	0	0	cloudy	Y. Okamoto.
Kagoshima	30.09	764.2	30.10	764.5	43.7	6.5	67	nnw.			2		10 s			0	0	overcast	
Kanazawa	29.96	760 9	30.07	763.8	35.0	1.7	80	e.	6.5	2.9		5 cs	4 s			0	0	cloudy	S. Endo.
Kioto	29.90	759.4	30.07	763.8	35.1	1.7	94	nw.	0.1	0.04		gck;cs	1 ck	sw.		0.003	0.1	cloudy	M. Tojima.
Kochi	30.04	763.1	30.07	763.6	44.1	6.7	68	ene.	6.5	2.9			10 ck		w.	0	0	cloudy	K. Kusunose.
Miasaki	30.07	763.7	30.09	764.4	44.6	7.0	78	n.			1		10 n		w.	0.012	0.3	raining	K. Masusaki.
Miyako	30.03	762.8	30.14	765 5	32.0	0.0	100	calm	0	0		2 ck	6 s	sw.		0.099	2.5	cloudy	N. Homo & K. Suwa.
Nagasaki, I. M. Obs'y	29.93	760.2	30.14	765.5	40.3	4.6	72	n.	2.4	1.1		0	1 c			0	0	fair	
Nemuro	30.23	767 8	30.28	769 1	13.0	—10.6	66	calm	0	0		1 k	0			0	0	clear	A Shibuya.
Niigata	30.03	762 7	30.06	763.5	32.2	0.1	85	se.	0.6	0.4		10 cs	0	w.		0	0	cloudy	Satoo & Tomikawa.
Nobiru	30.08	764.1	30.10	764.5	35.6	2.0	91	n.	7.0	3.1		4 ck	5 ks		sw.	0.010	0.3	cloudy	Yoshino & Midzushina.
Numadzu	30.03	762.7	30.06	763.6	40.9	4.9	79	ese.			2		10 n			0.020	0.5	light rain	T. Ohgi.
Osaka	30.07	763.7	30.08	764.1	36.5	2.5	87	ne.	4.5	2.0			10s;ck		sw.	0	0	cloudy	H. Omura.
Sakai	30.07	763 8	30.08	764.0	36.6	2.6	93	w.			2	0	7 ks		w.	0.150	3.8	fair	Yamawehi & Sakamoto.
Sapporo	30.14	765.5	30.21	767.3	11.5	—11.4	99	calm	0	0			10 s		w.	0	0	covered	S. Kimura.
Shimonoseki	29.98	761.4	30.12	765.1	38.0	3.3	92	ne.			1		10s;ks		w.	0.007	1.7	cloudy	S. Sakano.
Wakayama	30.02	762.6	30.08	764.0	38.4	3.6	89	calm	0	0			10 ck		sw.	0.009	0.2	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.71	754.6	29.89	759.2	83.3	28.5	59	ese.	18.5	8.3		2 cs	3 k		ese.	0.03	0.8	fair	The Staff.
MEXICAN.																			
Leon	24.22	615.2	30.00	762.0	48.9	9.4	71	calm	0	0		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.73	755.0	29.99	761.7	68.0	20.0	95	e.	0.9	0.4		2 cs	2 ks	w.	w.	0	0	foggy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.30	769.5	30.30	769 5	43.9	6.6		sw.			2					0	0		
Groningen	30.22	767.7	30.28	769.1	42.1	5.6		sw.								0.004	0.1		
Helder	30.22	767.5	30.22	767.5	43.5	6.4		sw.			2					0	0		
Hellevoetsluis	30.28	769.2	30.28	769.2	50.4	10.2	84	wsw.			2					0	0		
Utrecht	30.24	768.1	30.30	769 5	42.8	6.0	82	sw.			2		10			0	0	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.8			79.7	26.5	86	nne	1.5	0.7			10			0	0		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.82	757.3	29.88	758.9	42.1	5.6	74	s.	16	7			10			0.079	2.0	raining	
Brono	29.41	746.9	29.45	747 9	37.4	3.0	74	sw.			6		8			0.102	2.6		
Christiania	29.71	754.7	29.86	758.5	39.2	4.0	72	ssw.	4	2			9			0	0		
Gjæsvær	28.79	731 3	28.82	731.9	27.9	— 2.3		wsw.			2		10			0	0		
Lodingen	29.19	741.4	29.24	742.6	34.0	1.1	42	nw.			5		7			0.079	2.0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.78	756 4	29.87	758.7	57.2	14.0	74	nw.	2.5	1.1			10			0.252	6.4		Capt. D. A. de Cunha.
Lisbon, Observatory	29.73	755.2	30.08	763.9	53.4	11.9	88	ene.	8.7	3.9			10			0.287	7.3		The Staff.
Ponta Delgada, Azores	30.07	763.7	30.14	765.5	57.9	14.4	53	n.	4.9	2.2			4			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.07	763 7	30.10	764.6	68.2	20.1	62	e.			3		5			0	0		
San Salvador, Congo	28.02	711.6	29.84	757.8	81.0	27.2	68	sw.			2		7			0.087	2.2		
Serra da Estrella	25.33	643.3	30.23	767.9	33.1	0.6	100	ese.			5		10			0.004	0.1	foggy	
RUSSIAN.																			
Akmolinski	28.83	732.2	30.01	762.2	7.7	—13.5	96	wsw.	11	5		3 ck	0			0	0		Major K. Lasarew.
Archangel	28.96	735 5	28 98	736.0	22.3	— 5.4	96	ssw.	4	2			10			0.228	5.8		Capt. Sselliwerstow
Ashurada	30.01	762.2	29.91	759.8	52.2	11.2	81	wnw.	13	6		0	1 k			0.055	1.4		
Astrakhan	29.89	759.3	29.82	757.3	32.9	0.5	85	w.	27	12			10 n			blank	blank	h'vy clouds	Capt. Wisganow.
Baku	30.01	762.2	29.96	761 0	42.4	5.8	72	n.	13	6		0	7k;ks			0	0		
Barnaul	29.67	753 7	30.21	767.3	19.8	— 6.8	73	e.	4	2			10			0.004	0.1		Meteorological Office.
Bielosersk	28.91	734.3	29.39	746.5	29.8	— 1.2	88	wsw.	11	5			9 s			blank	blank		
Dorpat	29.64	752.9	29.89	759.3	33.8	1.0	68	wsw.	9	4		0	0			0	0		Observatory.
Ekaterinburg	28.63	727 2	29.67	753.6	5.9	—14.5	92	ne.	4	2			10			0.024	0.6	snowing	Meteorological Obs'y
Elisawetgrad	29.69	754 1	30.16	766.1	34.3	1.3	91	wsw.	9	4			10 n			0.004	0.1		
Kasan	29.35	745.5	29.64	752.9	9.0	—12.8	100	wnw.	2	1			10			0	0		Observatory.
Kem	28.99	736.3	29.04	737.6	29.8	— 1.2	80	w.	18	8			5 ks			0	0		
Kertch	30.16	766.0	30.18	766.6	32.2	0.1	73	nw.	7	3		0	0 k			blank	blank		Lagorio & Sastyrea.
Kieff	29.38	746.2	30.04	762.9	37.8	3.2	93	nw.	9	4			10 n			0.004	0.1	raining	Observatory.
Kostov	29.18	741 1	29.71	754.0	19.6	— 6.9	85	wsw.	18	8			10 s			0	0		
Lgov	29.31	744.5	29.92	760.0	31.3	— 0.4	87	wsw.	20	9			10			0.028	0.7	snowing	R. I. Ssaweljew, Engin'r.
Libau	30.01	762.3	30.04	762 9	39.4	4.1	93	w.	4	2			10			0	0		[illegible] Quass.
Lugan	29.78	750.3	29.99	761.8	26.2	— 3.2	76	wsw.	18	8			8			0.004	0.1		Meteorological Obs'y
Moscow	29.09	738.9	29.58	751.4	30.4	— 0.9	88	nw.	7.8	3.5		0	5 ks			0.020	0.5		Meteorological Obs'y
Nertschinsk	28.05	712.5	30.69	779.6	—11.2	—24.0	70	calm	0	0			0			0	0		
Nikolaiev	30.13	765.2	30.20	767.0	41.9	5.5	65	wsw.	13	6		0	0			0	0		Capt. Kurdakow.

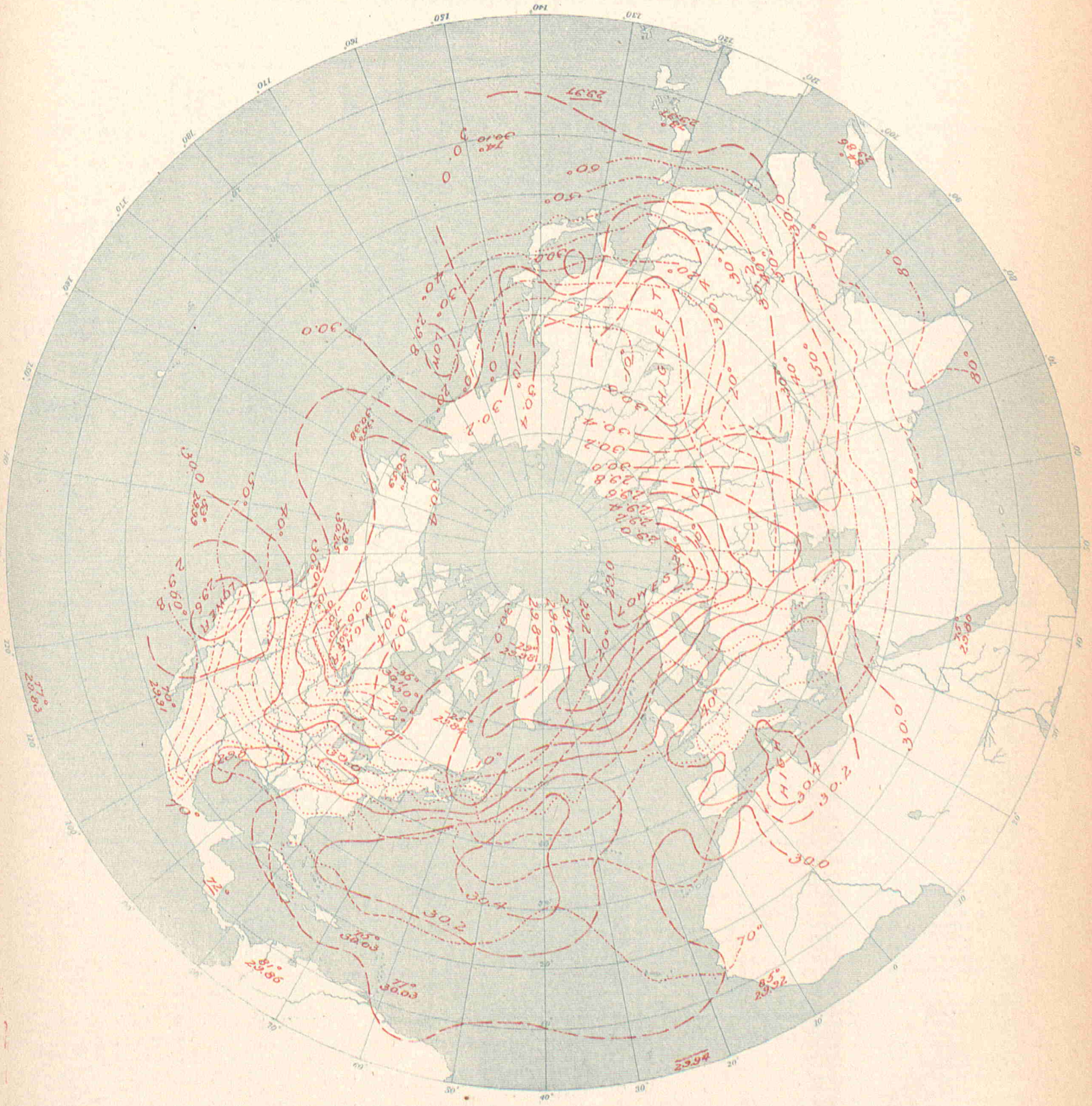
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Nikolcisevsk-on-the-Amoor.	30.33	770 3	30.41	772.5	—21.3	—29.6	76	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.46	773.7	30.60	777.3	14.2	— 9.9	30	nw.	7.8	3.5	.....	0	0	.....	.....	.....	.....	.....	Siang.
Petro-Alexandrovsk	29.67	753.7	30.04	762 9	45.3	7.4	73	ne.	1.1	0.5	.....	.....	6	.....	.....	.....	.....	.....	Walter.
Petrozavodsk	29.08	738.7	29.28	743.8	31.3	— 0.4	70	wnw.	45	20	.....	0	8 ks	.....	.....	inap.	inap.	.....	Dr. Bergmann.
Pinsk	29.60	751.8	30.11	764.7	41.0	5.0	84	wnw.	18	8	.....	.....	10	.....	.....	0.020	0.5	.....	
Poti	30.08	763 9	30.11	764.7	43.2	6.2	87	sw.	4	2	.....	.....	10 n	.....	.....	0.398	10.1	.....	
St. Petersburg	29.63	752.5	29.65	753.1	30.4	— 0.9	78	wnw.	18	8	.....	0	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.54	699.6	30.01	762.3	54.0	12.2	44	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Dresch.
Semipalatinsk	29.50	749 3	30.21	767 4	17.8	— 7.9	83	se.	11	5	.....	.....	10	.....	.....	inap.	inap.	.....	Major Lasarew
Sevastopol	30.02	762 4	30.24	768.0	41.9	5.5	62	n.	11	5	.....	0	3 s	.....	.....	0.071	1.8	.....	
Staroi Bykhov	29.37	746.0	29.95	760.6	36.1	2.3	89	w.	9	4	.....	.....	10	.....	.....	0.004	0.1	light rain ...	Carl Hagen.
Tashkend, Laboratory	28 37	720.6	30.06	763.6	49.5	9.7	50	ne.	11	5	.....	.....	1 k	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	28.60	726 4	30.06	763.6	40.1	4.5	56	nw.	22	10	.....	6 ck	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.54	699.5	30.18	766.5	27.7	— 2.4	60	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Sariono.
Viatka	28.94	735.0	29.62	752.3	7.9	—13.4	91	se.	2	1	.....	.....	10	.....	.....	0.067	1.7	.....	
Vladivostock	29.87	758.7	29.94	760.4	16.3	— 8.7	96	calm	0	0	.....	.....	5 s	.....	.....	0	0	.....	
Warsaw	29.78	756.5	30.22	767.6	42.6	5.9	96	wnw.	13	6	.....	.....	10 kn	.....	.....	.....	.....	h'vy clouds	Astronomical Obs'y.
Yeniseisk	30.30	769.6	30.63	777 9	— 4.5	—20.3	74	ese.	2	1	.....	.....	3	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.95	735.3	29.46	748.3	30.9	— 0.6	90	w.	26.0	11.6	.....	0	7 ks	.....	w.	inap.	inap.	fair	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.24	768.1	30.35	770.9	50.9	10.5	85	ese.	.....	.....	.....	0	6	.....	.....	0	0	½ covered	B. J. Elin.
Bilbao, Met. Obs'y	30.11	764.7	30.17	766.2	61.3	16.3	49	se.	4.0	1.8	.....	3	4	w.	.....	0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.24	692.0	30.25	768.4	50.0	10.0	51	s.	6.3	2.8	.....	0	2	.....	.....	0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.02	711.7	30 30	709.7	49.6	9.8	68	ne.	12.8	5.7	.....	.....	10	.....	.....	0	0	covered	The Staff.
Murcia, Met. Obs'y	30.13	765.2	30.26	768.7	55.2	12.9	87	ene.	2.7	1.2	.....	5	5	w.	.....	0	0	foggy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.16	740.7	30.06	763.5	55.9	13.3	61	se.	0.7	0.3	.....	.....	10	.....	.....	0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761 7	30.06	763.4	69.4	20.8	82	e.	5.6	2.5	.....	0	6 k;s	.....	s.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.91	759.6	29.97	761.1	78.2	25.7	94	ssw.	6.6	3.0	.....	0	s	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.03	762.9	30.13	765.4	61.9	16.6	62	se.	14.0	6.3	.....	2	8	se.	se.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.94	760.4	30.03	762.7	75.2	24.0	64	e.	7.8	3.5	.....	5 c	1 k	.....	e.	0	0	.....	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.29	743.9	29.33	744 9	30.6	— 0.8	96	w.	.....	.....	4	.....	0	.....	.....	0.020	0.5	.....	
Umea	29.50	749.2	29.55	750.5	36.5	2.5	85	nw.	.....	.....	4	.....	1	.....	.....	0	0	.....	
Hernosand	29.61	752.2	29.67	753.5	40.6	4.8	42	w.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Stockholm	29.71	754.6	29.89	759.1	37.0	2.8	79	wsw.	.....	.....	2	.....	9	.....	.....	0	0	.....	
Wisby	29.87	758.8	29.93	760.3	40.3	4.6	87	w.	.....	.....	4	.....	3	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.76	756.0	29.85	758.2	36.7	2.6	81	sw.	11.0	4.9	.....	.....	8	w.	.....	0.004	0.1	.....	H.H. Hildebrandesson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.34	770.5	43.5	6.4	64	n.	22	10.0	.....	.....	8	.....	n.	0	0	foggy	The Observatory.
Valona	.....	.....	30.35	770.9	60.4	15.8	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.86	758.4	57.0	13.9	69	n.	.....	.....	2	.....	9 n	.....	sw.	0.52	13.2	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.78	756.4	29.87	758.7	40.7	4.8	80	calm	0	0	.....	.....	10s;fg	.....	.....	0.16	4.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.26	743 2	29.97	761.2	17	— 8.3	83	n.	5	2.2	.....	.....	10 n	.....	.....	0.06	1.5	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.74	628 4	29.84	757 9	37.3	2.9	92	se.	3	1.3	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.26	692.4	30.30	769.6	—10.0	—23.3	57	nw.	2	0.9	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	F. Newman.
Atlanta, Georgia	28.80	733 0	30.08	764.0	55.0	12.8	91	sw.	12	5.4	.....	.....	fg.	.....	.....	0	0	dense fog	S. W. Beall.
Atlantic City, New Jersey	29.91	759.7	29.92	760.0	42.0	5.6	100	s.	15	6.7	.....	.....	fg.	.....	.....	0	0	dense fog	B. A. Blundon.
Augusta, Georgia	29.93	760.2	30.13	765.3	58	14.4	86	s.	1	0.4	.....	1 ck	fg.	w.	.....	0	0	clear	W. J. Evans.
Baltimore, Maryland	29.84	757.9	29.89	759.2	54	12.2	86	w.	8	3.6	.....	.....	10s;fg	.....	sw.	0	0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	29.88	758.9	29.90	759.4	45.6	7.6	98	sw.	23	10.3	.....	5 c	fg.	w.	.....	0	0	fair	F. L. Johnson.
Bennett, Fort, Dakota	28.59	726.2	30.32	770.1	— 7.8	—22.1	82	nw.	1	0.4	.....	0	3 s	.....	nw.	0.06	1.5	clear	A. Pritchard.
Benton, Fort, Montana	27.36	694.9	30.30	771.1	— 7.0	—21.7	26	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.36	720.3	30.34	770.6	— 9.5	—23.1	100	n.	5	2.2	.....	0	1 s	.....	nw.	0 02	0.5	clear	B. O. Lenoir.
Block Island, Rhode Island	29.90	759.4	29.94	760 5	46.0	7.8	88	sw.	22	9.8	.....	4 cs	fg.	sw.	.....	0.06	1.5	fair	J. T. Eiker.
Boise City, Idaho	26.82	681.2	29.78	756.4	20.0	— 6.7	93	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	James Kenealy.
Boston, Massachusetts	29.74	755.4	29.90	759.4	45.0	7.2	93	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.16	4.1	cloudy	O. B. Cole.
Brownsville, Texas	29.69	754.1	29.75	755.6	66.0	18.9	90	se.	12	5.4	.....	0	5 s	.....	.....	0	0	fair	John McGlone.
Buffalo, New York	29.06	738 1	29.85	758.2	31	— 0.6	94	ne.	7	3.1	.....	.....	10 n	.....	.....	0.25	6.3	light rain	Wm. Finn.
Buford, Fort, Dakota	28.14	714.7	30.35	770.9	— 8.8	—22.7	91	n.	4	1.8	.....	8 c	0	.....	.....	0	0	cloudy	A. Schneider.
Cairo, Illinois	29.43	747.5	29.85	758.2	49.2	9.6	95	n.	4	1.8	.....	.....	10 n	.....	n.	1.71	43.4	light rain	W. H. Ray.
Canby, Fort, Washington Ter	29.75	755.6	29.95	760.7	30.9	— 0.6	86	n.	18	8.0	.....	0	0	.....	.....	0	0	clear	J. H. Young.
Cape Henry, Virginia	30.04	763.0	30.06	763.5	02.5	16.9	87	s.	14	6.3	.....	0	4 s	.....	.....	0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.91	759.7	29.94	760.5	43.5	6.4	93	s.	25	11.2	.....	.....	fg	.....	.....	0	0	dense fog	W. E. Smith.
Cape Mendocino, California	28.90	734.0	29.60	751.8	37	2.8	89	nw.	.....	.....	6	.....	10 ks	.....	nw.	0.07	1.8	threatening	A. P. Leavitt.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	65.0	18.3	97	e.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	G. W. Davis.
Charleston, S. Carolina	30.08	764.0	30.14	765.5	62.0	16.7	93	sw.	6	2.7	.....	0	8 s	.....	sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.08	764.0	55.3	12.9	94	sw.	4	1.8	.....	10 cs	fg.	sw.	.....	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.15	740.4	30.01	762.2	59.5	15.3	91	s.	6	2.7	.....	.....	10 ks	.....	sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.68	601.5	29.95	760.7	0.8	—17.3	89	se.	7	3.1	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	E. McGovern.
Chicago, Illinois	29.11	739.4	29.86	758.4	31.6	— 0.2	82	n.	2	0.9	.....	.....	10 n	.....	.....	0.03	0.8	heavy snow	Wm. Norrington.
Chincoteague, Virginia	30.00	762.0	30.02	762 5	45.8	7.7	100	s.	12	5.4	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	C. F. Dickens
Cincinnati, Ohio	29.12	739.6	29.81	757.2	45.6	7.0	95	ne.	6	2.7	.....	.....	10 n	.....	.....	2.50	63.5	light rain	L. Dunne.
Cleveland, Ohio	29.02	737.1	29.81	757.2	33.5	0.8	94	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.61	15.5	heavy rain	W. Line.
Columbus, Ohio	28.79	731.3	29.69	754.1	38.5	3.6	88	nw.	4	1.8	.....	.....	10 n	.....	nw.	1.33	33.8	light rain	F. T. Williams
Concho, Fort, Texas	27.91	708 9	29.93	760.2	52.0	11.1	86	nw.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	threatening	C. E. King.
Custer, Fort, Montana	26.86	682.2	30.22	767.6	— 6	—21.1	62	calm	0	0	.....	0	0	.....	.....	0.17	4.3	clear	W. J. Daily.
Davenport, Iowa	29.20	741.7	29.90	759.4	29	— 1.7	77	nw.	5	2.2	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.00	635 0	29.96	761 0	45.9	7.7	75	se.	8	3.6	.....	.....	10 ks	.....	se.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.12	714.2	29.94	760.5	15	— 9.4	91	sw.	4	1.8	.....	0	0	.....	.....	0.25	6.3	clear	H. S. Blandford.
Deadwood, Dakota	25.22	740.6	30.14	765.5	—10.0	—23.3	100	calm	0	0	.....	0	0	.....	.....	0.05	1.3	clear	G. Kingsbury.
Delaware Breakwater, Del.	29.92	760.0	29.94	760.5	56.9	13.8	87	sw.	27	12.1	.....	8 cs	0	sw.	.....	0	0	cloudy	G. A. Martin.
Denver, Colorado	24.45	621 0	29.97	761.2	11.0	—11.7	83	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear	F. M. Neal.
Des Moines, Iowa	29.04	737.6	30.01	762.2	12.1	—11.1	61	n.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear	F. W. Conrad.
Detroit, Michigan	29.14	740 1	29.89	759.2	32.0	0.0	78	n	9	4.0	.....	.....	10 s	.....	.....	0.05	1.5	cloudy	N. B. Conger.
Dodge City, Kansas	27.33	694 2	30.07	763.8	13.5	—10.3	91	n.	11	4.9	.....	.....	10 s	.....	n.	0	0	cloudy	J. E. Lanouette.
Dubuque, Iowa	29.16	740.7	29.92	760.0	22.5	— 5.3	67	nw.	4	1.8	.....	.....	10 s	.....	ne.	0.04	1.0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.31	744 5	30.12	765.0	10.5	—11.9	89	n.	12	5.4	.....	.....	10 n	.....	.....	0.20	5.1	light snow	E. R. Brace.
Eastport, Maine	29.84	757.9	29.91	759.7	36.5	2.5	94	w.	1	0.4	.....	.....	fg.	.....	w.	0.57	14.5	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.08	687.8	29.98	761 5	22.8	— 5.1	100	ne.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.07	662.2	29.95	760 7	43.3	6.3	93	calm	0	0	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.06	738.1	29.83	757.7	35.0	1.7	94	ne.	4	1.8	.....	.....	10 n	.....	.....	0.25	6.3	light rain	C. A. Shaw.
Escanaba, Michigan	29.32	744.7	30.04	763.0	12.0	—11.1	89	n.	6	2.7	.....	.....	10 n	.....	n.	0.32	8.1	light snow	L. M. Pindell.
Fort Smith, Arkansas	29.34	745.2	29.84	757.9	40.0	4.4	89	w.	8	3.6	.....	.....	10 n	.....	.....	1.25	31.7	light rain	J. B. Campbell.
Galveston, Texas	29.82	757.4	29.86	758.4	65.5	18.6	93	s.	8	3.6	.....	0	3 s	.....	s	0.01	0.3	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.18	741.2	29.89	759 2	25.0	— 3.9	88	n.	9	4.0	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	24.96	634.0	29.82	757 4	38.4	3.6	94	se.	4	1.8	.....	.....	10 s	.....	se.	0.09	2.3	cloudy	Chas. A. Read.
Hatteras, North Carolina	30.12	765.0	30.13	765.3	60.0	15.6	92	sw.	5	2.2	.....	3 cs	4 k	se.	w.	0	0	fair	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.74	653.8	30.09	764.3	— 1	—18.3	72	calm	0	0	.....	0	0	.....	.....	0.24	6.1	clear	S. W. Morrison.
Huron, Dakota	28.71	729.2	30.23	767.8	— 6.3	—21.3	74	nw.	12	5.4	.....	0	1 s	.....	.....	0.10	2.5	clear	S. W. Glenn.
Indianapolis, Indiana	28.94	735.1	29.78	756.4	37.0	2.8	82	e.	2	0.9	.....	.....	10 n	.....	e.	0.68	17.3	light rain	C. F. R. Wappenhans.
Indianola, Texas	29.74	755.4	29.77	756.1	65.0	18.3	93	s.	8	3.6	.....	0	4 s	.....	s.	0	0	fair	I. A. Reed.
Jacksonville Florida	30.10	764.5	30.15	765.8	62.0	16.7	93	se.	5	2.2	.....	2 cs	3 k	.....	se.	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.20	741.7	29.90	759.4	26.0	— 3.3	84	nw.	9	4.0	.....	.....	10 s	.....	nw.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	72	22.2	83	e.	6	2.7	.....	0	2 k	.....	e.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.11	764.8	30.13	765.3	60.1	15.6	92	sw.	11	4.9	.....	0	4 ks	.....	ne.	0.05	1.3	fair	Wesley Blake.
Knoxville, Tennessee	28.90	734.0	29.98	761.5	62	16.7	71	sw.	13	5.8	.....	.....	10 s	.....	sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.09	738.9	29.93	760.2	22	— 5.6	88	nw.	4	1.8	.....	.....	10 s	.....	.....	0.64	16.3	cloudy	S. C. Emery.
Leavenworth, Kansas	29.06	738.1	30.01	762.2	22	— 5.6	88	nw	8	3.6	.....	.....	10 n	.....	.....	inap.	inap.	light snow	T. S. Outram.
Lewiston, Idaho	29.09	738.9	29.96	761.0	29.0	— 1.7	78	sw.	1	0.4	.....	0	0	.....	.....	0.09	2.3	clear	C. E. Butler.
Little Rock, Arkansas	29.43	747.5	29.76	755.9	60.0	15.6	93	s.	2	0.9	.....	.....	10 n	.....	.....	1.48	37.6	heavy rain	W. U. Simons.
Los Angeles, California	29.18	741.2	29.58	751.3	50.5	10.3	89	w.	16	7.2	.....	7 k	0	nw.	.....	0.78	19.8	clearing	T. S. Collins.
Louisville, Kentucky	29.17	740.9	29.76	755.9	53.1	11.8	92	calm	0	0	.....	.....	10n;fg	.....	.....	3.28	83.3	light rain	L. M. Dey.
Lynchburg, Virginia	29.27	743.4	29.99	761.7	58.0	14.4	86	sw.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.30	744.2	30.00	762.0	15.0	— 9.4	83	ne.	3	1.3	.....	.....	10 s	.....	.....	0.24	6.1	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.14	765.5	30.15	765.8	58.1	14.5	93	sw.	23	10.3	.....	0	9 s	.....	sw.	0.09	2.3	cloudy	William Daly.
Maginnis, Fort, Montana	25.58	649.7	30.33	770.4	—11.1	—23.9	54	n.	2	0.9	.....	0	0	.....	.....	0.07	1.8	clear	F. Burke.
Marquette, Michigan	29.29	744.0	30.07	763.8	14.3	— 9.8	83	n.	6	2.7	.....	.....	10 n	.....	.....	0.18	4.6	light snow	J. Gilligan.
Memphis, Tennessee	29.51	749.5	29.86	758.4	58.0	14.4	96	se.	2	0.9	.....	.....	10 n	.....	.....	1.27	32.3	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.10	739.1	29.90	759.4	25.8	— 3.4	92	ne.	13	5.8	.....	.....	10 n	.....	ne.	0.04	1.0	light snow	S. W. Rhode.
Mobile, Alabama	29.94	760.5	29.98	761.5	63.8	17.7	83	s.	6	2.7	.....	4 k	6 s	s.	s.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.78	756.4	30.02	762.5	62	16.7	87	s.	4	1.8	.....	.....	10n;fg	.....	s.	inap.	inap.	light rain	Geo. E. Franklin.
Moorhead, Minnesota	29.18	741.2	30.28	769.1	—15.1	—26.2	100	n.	13	5.8	.....	0	0	.....	.....	0.01	0.3	clear	H. Bessant.
Mt. Washington, N. H.	23.49	596.6	30.11	764.8	30.5	— 0.8	96	w.	72	32.2	.....	.....	fg.	.....	w.	0.43	10.9	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.22	742.2	29.83	757.7	64.3	17.9	76	nw.	17	7.6	.....	.....	10 n	.....	w.	inap.	inap.	light rain	L. N. Jesunofsky
New Haven, Connecticut	29.78	756.4	29.90	759.4	38.5	3.6	100	calm	0	0	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	J. H. Sherman.
New London, Connecticut	29.89	759.2	29.94	760.5	38.5	3.6	100	s.	3	1.3	.....	.....	10 ks	.....	sw.	0.11	2.8	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.89	759.2	29.95	760.7	67.4	19.7	93	s.	7	3.1	.....	.....	10s;fg	.....	s.	0	0	cloudy	M. Herman.
New York, New York	29.70	754.4	29.89	759.2	48.1	8.9	86	calm	0	0	.....	.....	10s;fg	.....	se.	0.11	2.8	cloudy	H. J. Penrod.
Norfolk, Virginia	30.01	762.2	30.04	763.0	60.0	15.6	93	s.	10	4.5	.....	6 c	2 s	w.	s.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	26.99	685.5	30.09	764.3	— 3.6	—19.8	81	nw.	.....	.....	2	0	0	.....	.....	0.09	2.3	clear	J. J. Mc Lean.
Olympia, Washington Ter	29.94	760.5	29.98	761.5	31.0	— 0.6	68	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.86	733.0	30.13	765.3	10.0	—12.2	77	n	12	5.4	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	A. Pollak.
Oswego, New York	29.52	719.8	29.87	758.7	34.6	1.4	74	ne.	4	1.8	.....	.....	10 n	.....	.....	0.44	11.2	sleeting	J. G. Linsley.
Palestine, Texas	29.21	741.9	29.79	756.7	67.4	19.7	89	s.	15	6.7	.....	.....	10 s	.....	s.	0	0	cloudy	P. T. Jenkins.
Pensacola, Florida	29.97	761.2	30.00	762.0	65.4	18.6	99	se.	11	4.9	.....	.....	10 s	.....	s.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.77	756.1	29.88	758.9	54.0	12.2	95	sw.	8	3.6	.....	7 ck	fg.	w.	.....	0.02	0.5	fair	T. F. Townsend.
Pike's Peak, Colorado	17.30	439.4	30.02	762.5	0.0	—17.8	83	s.	20	8.9	.....	0	0	.....	.....	inap.	inap.	clear	H. Hall.
Pittsburg, Pennsylvania	28.92	734.6	29.78	756.4	39.2	4.0	89	e.	4	1.8	.....	.....	10 n	.....	sw.	1.07	27.2	light rain	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	—10.8	—23.8	100	e.	.....	.....	1	.....	10 n	.....	.....	0.02	0.5	light snow	G. A. Garden.
Port Huron, Michigan	29.14	740.1	29.87	758.7	26.2	— 3.2	88	n.	12	5.4	.....	.....	10 n	.....	.....	0.06	1.5	light snow	M. H. Perry.
Portland, Maine	29.80	756.9	29.85	758.2	41.0	5.0	92	sw	10	4.5	.....	.....	10s;fg	.....	sw.	0.21	5.3	cloudy	W. W. Eichelberger.
Portland, Oregon	29.82	757.4	29.89	759.2	29.6	— 1.3	63	ne.	11	4.9	.....	0	2 s	.....	.....	0	0	clear	M. L. Hearn.
Prescott, Arizona	24.36	618.7	29.72	754.9	37.0	2.8	92	s.	13	5.8	.....	.....	10 n	.....	sw.	0.35	8.9	light rain	N. D. Lane.
Provincetown, Mass	29.88	758.9	29.91	759.7	41.4	5.2	97	sw.	9	4.0	.....	.....	10ks;fg	.....	sw.	0.18	4.6	cloudy	C. N. Kitchel.
Red Bluff, California	29.20	741.7	29.57	751.1	33	0.6	88	nw.	8	3.6	.....	0	0	.....	.....	0.05	1.3	clear	J. R. Williams.
Rio Grande City, Texas	29.52	749.8	29.77	756.1	67.0	19.4	88	se.	6	2.7	.....	0	4 s	.....	.....	0	0	fair	L. G. Schultz.
Rochester, N. Y	29.16	740.7	29.87	758.7	31	— 0.6	100	e.	7	3.1	.....	.....	10n;fg	.....	.....	0.20	5.1	light rain	E. W. McGann.
Roseburg, Oregon	29.13	739.9	29.70	754.4	30.9	— 0.6	66	nw.	5	2.2	.....	0	8 s	.....	nw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.43	747.5	29.50	749.3	40.5	4.7	90	nw.	16	7.2	.....	.....	10 n	.....	.....	0.40	10.2	light rain	J. A. Barwick.
St. Louis, Missouri	29.22	742.2	29.88	758.9	32.2	0.1	98	ne.	10	4.5	.....	.....	10s;fg	.....	.....	0.52	13.2	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.55	776.0	30.59	777.0	15	— 9.4	91	n.	.....	.....	1	3 cs	0	.....	.....	inap.	inap.	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.08	738.6	30.01	762.2	16.6	— 8.6	65	n.	8	3.6	.....	.....	10 s	.....	nw.	0.03	0.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.46	748.3	30.43	772.9	—27.5	—33.1	80	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.20	640.1	29.76	755.9	24.8	— 4.0	61	calm	0	0	.....	0	0	.....	.....	0.82	20.8	clear	J. Craig.
San Diego, California	29.52	749.8	29.59	751.6	56.4	13.6	94	sw.	26	11.6	.....	.....	10 n	.....	sw.	0.45	11.4	light rain	F. R. Day.
Sandusky, Ohio	29.12	739.6	29.84	757.9	35	1.7	79	ne.	4	1.8	.....	.....	10 n	.....	.....	0.46	11.7	light rain	B. F. Hough.
Sandy Hook, New Jersey	29.96	761.0	29.99	761.7	45.0	7.2	83	calm	0	0	.....	6 k	fg.	nw.	.....	0	0	fair	V. P. Chappel.
Sanford, Florida	30.06	763.5	30.11	764.8	61.0	16.1	95	se.	2	0.9	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	J. B. Marbury
San Francisco, California	29.46	748.3	29.53	750.0	43.0	6.1	88	nw.	13	5.8	.....	.....	10 s	.....	nw.	0.87	22.1	threatening	N. Gorom.
Savannah, Georgia	30.04	763.0	30.13	765.3	61	16.1	90	s.	5	2.2	.....	0	5ks;fg	.....	sw.	0	0	fair	R. M. Geddings.
Shaw, Fort, Montana	26.41	670.8	30.26	768.6	—14	—25.6	100	w	2	0.9	.....	6 k	0	.....	.....	0.06	1.5	fair	A. L. Mathews.
Shreveport, Louisiana	29.54	750.3	29.72	754.9	67.8	19.9	85	s.	9	4.0	.....	.....	10 s	.....	s.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	30.18	766.6	30.25	768.3	28.5	— 1.9	77	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. W. Fickett.
Smithville North Carolina	30.10	764.5	30.14	765.5	59.3	15.2	92	sw.	9	4.0	.....	3 c	3 s	w.	sw.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.88	708.1	30.02	762.5	13.1	—10.5	83	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.15	740.4	29.88	758.9	34.3	1.3	92	n.	8	3.6	.....	.....	10 n	.....	n.	0.03	0.8	light rain	T. B. Jennings.
Stockton, Fort, Texas	26.78	680.2	29.91	759.7	53.0	11.7	61	se.	10	4.5	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	29.94	760.5	.....	.....	33.0	0.6	76	e.	18	8.0	.....	0	0	.....	.....	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.01	686.0	29.84	757.9	43.5	6.4	96	se.	.....	.....	1	.....	10 s	.....	.....	0.05	1.3	cloudy	R. C. Lord.
Toledo, Ohio	29.11	739.4	29.85	758.2	33	0.6	89	ne.	5	2.2	.....	.....	10 n	.....	ne.	0.22	5.6	light rain	A. Buell.
Unalashka, Alaska	30.36	771.1	30.38	771.6	35	1.7	79	s.	16	7.2	.....	0	3 s	.....	s.	0.03	0.8	clear	Samuel Applegate.
Vicksburg, Mississippi	29.62	752.3	29.88	758.9	65.5	18.6	90	se.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	C. Dill.
Washington, D. C.	29.80	756.9	29.92	760.0	56.8	13.8	84	sw.	12	5.4	.....	6 cs	0	sw.	.....	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	25.82	665.8	29.94	760.5	13	—10.6	100	e.	14	6.3	.....	.....	10 n	.....	e.	0.02	0.5	sleeting	F. H. Brandenburg.
Wilmington, N. Carolina	30.09	764.3	30.15	765.8	61.5	16.4	90	sw.	6	2.7	.....	5c;cs	4 s	sw.	.....	0.01	0.3	cloudy	L. H. Albrecht.
Yankton, Dakota	28.74	730.0	30.16	766.1	3.8	—15.7	85	n.	14	6.3	.....	.....	10 n	.....	.....	0.29	7.4	light snow	E. H. Thompson.
Yuma, Arizona	29.46	748.3	29.61	752.1	54.5	12.5	90	se.	20	8.9	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.71	754.6	29.73	755.1	29.3	— 1.5	86	n.	30	13.4	.....	.....	10 n	.....	.....	.....	.....	snowing	George Cherulck.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	76	24.4	.....	ne.	.....	.....	3	1 cs	3 k	ne.	ne.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	21.92	556.9	.....	.....	52.7	11.5	77	calm	0	0	.....	3 ck	6 k	ne.	nw.	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.08	753.9	29.84	757.9	—25	—31.7	100	sw.	22	9.8	.....	0	0	.....	.....	0.04	1.0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.00	762.0	76.2	24.2	83	n	4	1.8	.....	0	9 s	.....	e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.00	762.0	30.00	762.0	76	24.4	83	ne.	.....	.....	2	3 c	3 s	e.	.....	0	0	clear	Dr. C. J. Herme.
Puerto Berrio, U. S. C.	29.30	744.2	29.86	758.4	81	27.2	85	n	.....	.....	1	0	7 ks	.....	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	72	22.2	90	ne.	.....	.....	1	0	5 ks	.....	ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.04	763.0	30.11	764.8	—36.0	—37.8	.....	nw.	19	8.5	.....	2 c	0	w.	.....	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.82	757.3	29.82	757.5	78.1	25.6	82	n.	13.0	5.8	.....	0	4 k	.....	n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.80	756.9	29.87	758.6	73.8	23.2	84	n.	.....	.....	4	0	1 k	.....	n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
S. S. Alvo, Port au Prince, Hayti, W.I*	30.10	764.5	72	22.2		ne.			3		4		ne.	0	0			fine.
S. S. Ailsa, Petit Goave, Hayti, W.I			79.2	26.2	78	e.			1		0			0	0	sm'h		clear
Schr. Arthur Burton, Tybee Roads, Ga †	30.15	765.8				se			1		6		calm	0	0	sm'h		smoky.
S. S. Alps, Ponce, Porto Rico			79	26.1		ne.			1		4		ne.	0	0	short		fair.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I †	30.02	762.5	66	18.9		n.			2		0			0	0			clear.
S. S. Anchoria, N. 44° 19′, W. 49° 30′†	30.38	771.6				s.			4		10		sw.	2 h'r	2 h'r	sli't	s.	light rain.
S. S. Caracas, La Guayra, Venezuela *†	29.91	759 7	75	23.9	90	e.			3		10		ene.	3 h'r	3 h'r	mod.	nne.	raining.
S. S. Canada, (Fr) N. 49° 12′, W. 31° 29′	30.36	771.2				nnw.			4		k		nnw.	0	0	large	nnw.	overcast.
S. S. Chalmette, Algiers, La *†	29.88	758.9	67	19.4		s.			3					½ h'r	½ h'r			foggy.
S. S. Devonia, N. 53° 57′, W. 22° 10′ †	30.06	763.5	38	3 3		wnw.			6		4		wnw.	7 h'r	7 h'r	h'vy	nw.	hail squ'lls.
S. E. J. Spicer, N. 41° 44′, W. 30° 25′	30.28	769.1	53	11.7	93	n.			6		10		n.	4 h'r	4 h'r	mod.	nr.w.	cloudy.
S. S. England, N. 40° 28′, W. 72° 52′						sw.			4		fg.		sw.			sm'h		dense fog.
S. S. Grecian, Glasgow, Scotland	30.05	763.3	45	7.2	92	sw.			3		10		sw.	10 h'r	10 h'r			overcast.
Bg. George, N. 39° 40′. W 73° 30′ *†	29.97	761.2				ssw.			5		5			0	0	mod.	ssw.	foggy.
S. S. Hermann, N. 43° 14′, W. 51° 46′	30.32	770.1	42.8	6 0	97	ssw.			5		10		w.	1 h'r	1 h'r	mod.	ssw.	raining.
S S. Holland, N. 40° 33′, W. 73° 01′ *	29.87	758.7	42	5.6		s.			4					0	0	mod.	s.	foggy.
S. S. Iowa, N. 49° 50′, W. 26° 00′			43	6.1		nnw.			5		5		nnw.	4 h'r	4 h'r	mod.	wnw.	fair.
Bg. L. & W. Armstrong, N. 27° 00′, W. 71° 22′*†	30.28	769.1				ne.			4		3		ne.	½h'r	½h'r	mod.	ne.	squally.
S. S. Lone Star, N. 26° 10′, W. 79° 53′*†	30.16	766 1	73	22.8		ese.			3		10		ese	½ h'r	½ h'r	sm'h	ese.	squally.
S. S. Mentmore, N. 52° 22′, W. 6° 02′ *†	30.20	767.1				s.			6		10			0	0			cloudy.
S. S. Marengo, N. 50° 17′, W. 26° 00′ *†	30.20	767.1	41	5.0		n.w.			6		7		nw.	2 h'r	2 h'r	long	wnw.	squally.
S. S. Neckar, N. 47° 00′, W. 36° 10′	30.43	772.9	41.0	5.0	100	nw.			3-4		6		nnw.	snow	snow	mod	nw.	fair.
S. S. Orinoco, Sandy Hook, N J			42	5.6		nw.			1		fg.			0	0			dense fog.
S. S. Oregon, (Br) N. 46° 00′, W. 45° 20′ *	30.34	770.6	42	5.6		sse.			4		10		ssw.	6 h'r	6 h'r	mod	sse	cloudy.
S. S. Ohio, (Am) N. 49° 11′, W. 31° 45′*†	30.38	771.6	38	3.3	90	nnw.			2		9		n.	3 h'r	3 h'r	mod.	nnw.	cloudy.
S. S Pennsylvania, Liverpool, Eng			47	8.3	77	w			3		8		wsw.	0	0			cloudy.
S. S. Polynesian, N. 46° 22′, W. 40° 40′			39	3.9		wsw.			2		9		w.	0	0	sm'h	ne.	cloudy.
S. S. Rhein, N. 49° 54′, W. 25° 00′						n.			6		4		n.	0	0	high	n.	fair.
S. S. Rhynland, Antwerp, Belgium			50	10.0	86	calm			0		0			0	0			clear
S. S. Republic, N. 45° 23′, W. 48° 48′			39	3.9		sw.			6		9		wsw.	sh'rs	sh'rs	mod.	w.	misty.
S. S. Scandinavian, off Greenock, Scot'd	29.98	761.5	48	8.9		ssw.			5		10		ssw.	24 h'r	24 h'r			drizzling.
S. S. Switzerland, N. 49° 16′, W. 19° 56′ *†	30.07	763.8				nw.			5		10		nw.	7 h'r	7 h'r	r'gh	w w.	raining.
S. S. Samaria, N. 46° 40′, W. 40° 30′	30.43	772.9	39	3.9		sw.			3		5		wsw.	2 h'r	2 h'r	sm'h	w.	fair.
S. S. Scythia, N. 50° 00′, W. 28° 40′	30.30	769.6	53?	11.7?		nw.			3		6		nw.	1 h'r	1 h'r	mod.	nw.	fair.
S. Salisbury, N. 20° 05′. W. 64° 05′	30.02	762.6	73.8	23.2	78	nne.			5		5 k		nne.	0	0	long	nne.	fair.
Bk. Tuck Sing, N. 30° 31′, W. 79° 44′*†	30.15	765.8				s.			2		0			0	0	long	ese.	clear.
S. S. Belgenland, N. 44° 23′, W. 49° 02′ *†	30.42	772.7	38	3.3	81	ssw.			6				sw.	rain	rain	h'vy	wsw.	overcast.
S. S. State of Georgia, N. 49° 08′ W. 38° 42′†	30.42	772.7	38	3.3		sw.			2		10		sw.	3 h'r	3 h'r	long	nnw.	cloudy.
Schr Adda Doane, Kingston, Jamaica, W.I †	29.99	761.7				n.w.			2		5		ne.	0	0			fair.
Bg, Alcira. Maracaybo, Venezuela*	29.96	761.0	78	25.6		nne.			1		6		ne; sw	0	0			fair.
Bk. Chas. Stewart, N. 36° 17′, W. 11° 30′*†	30.08	764.0				s.			6		8		s;e.	0	0	r'gh	e.	fair.
Bk. Cato, N. 39° 30′, W. 59° 07′ †	30.38	771.6	64	17.8	86	ssw.			5		3?		ssw.	0	0	long		cloudy?
S. S. D. J. Foley, N. 37° —′, W. 74° 15′ *†	30.10	764 5				ssw.			4		2		sw.	0	0	mod.	s.	hazy.
S. S. Gellert, N. 43° 47′, W. 48° 36′	30.40	772.1	45	7.2	92	ssw.			4		10		sw.	4 h'r	4 h'r		se.	overcast.
S. S. Labrador, N. 49° 41′, W. 30° 23′ *†	30.28	769 0	39.2	4		nw.			5		4		nw.	0	0	r'gh	nw.	fair.
S. S. Habsburg, N. 46° 07′, W. 41° 45′	30.46	773 7				wsw.			6		8		sw.	0	0	mod	wsw.	cloudy.
S. S. New York, N. 27° 40′ W. 87° 15′ *†	30.06	763.5	75	23.9		s.			4		3		sw	0	0	sm'h	sw.	fair.
S. Parker M. Whitmore, N. 39° 08′, W. 35° 00′ *†	30.26	768.6	58	14.4		nne.			6		8		nne.	4 h'r	4 h'r	high	nne.	cloudy.
S. S. Rialto, N. 50° 35′, W. 0° 51′ †	30.30	769.6	49	9.4		sse.			2		5		se.	0	0	sm'h	s.	fair.
S. S. Vaderland, River Scheide, Germany	30.21	767.3	44	6.7		w.			3		5		w.	2 h'r	2 h'r	sm'h		
S. S. Virginian, N. 41° 36′ W. 62° 00′*	30.10	764.5	54	12.2		ssw.			6				sw.			mod.	sw.	foggy.
S. S. Wyoming, N. 40° 47′. W. 67° 50′	30.06	763.5	45	7.2		sw.			4		8		w.	0	0	mod.	s.	hazy.
S. S. W. A. Scholten, N. 48° 05′ W. 38° 21′			40.5	4.7	69	wsw.			7		2		nw.	17 h'r	17 h'r	3	w.	squally.
S. S. Westphalia, N. 48° 09′, W. 33° 52′	30.34	770.6	37	2.8		nne.			2		8			2 h'r	2 h'r	mod.	sw.	cloudy.
S. S. St. Laurent, N. 41° 35′, W. 64° 30′			50.0	10.0		wsw.			6					light	light	r'gh	sw.	misty.
S. S. Crescent City, N. 9° 30′, W. 79° 50′*†	29.80	756.9	76	24.4		ne.			5								ne.	fine.
S. S. Nurnberg, N. 39° 24, W. 60° 22′	30.30	769.6	66.2	19.0		ssw.			6		8		ssw.	0	0	mod.	ssw.	fair.
U. S. Navy Yard, Portsmouth, N.H*	29.83	757.7	35	1.7	90	sw.	3	1.3			10		sw.	0.2	5.			raining.
U. S. S. Alliance, Salt Key, Turk's Id, Bahamas	30.07	763.8	72	22.2	80	ne.			2		8		ne.	0	0	sm'h		cloudy.
U. S. S. Kearsarge, N. 40° 46′ E. 14° 08′	30.38	771.6	59	15.0	65	ese.			1		0					sm'h		clear.
U. S. S. Lancaster, Naples, Italy	30.37	771.4	57	13.9	100	sw.			2		5		sw.	0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	29.92	760.0	40	4.4	100	sw.			2		10		sw.			sm'h		cloudy
U. S. S. Quinnebaug, Leghorn, Italy	30.35	770.9	55	12.8	74	wnw.			1		2		w.			sm'h		fair.
U. S. S. Swatara, N. 18° 44′, W. 73° 55′	30.02	762.5	76	24.4	77	ne.			2		8		ne.	0	0	sm'h		cloudy.
U. S. S. Tennessee, N. 28° 43′, W. 89° 05′	29.96	761.0	72	22.2	90	se.	10	4.5			2			0	0	sli't	se.	clear.
U. S. S. Trenton, Naples, Italy	30.37	771.4	57	13.9	81	s.			1		2							clear.
U. S. S. Vandalia, Curacoa, W. I	29.95	760.7	78	25.6	73	ene.			2		2		e.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.42	772.7	61	16.1	71	sw.			1		0							blue sky.
H. M. S. Alecto, N. 13° 35′, W. 16° 51′	30.00	762.0	69	20.6		n.			3		9					3	nnw.	d. clouds.
H. M. S. Boadicea, N 8° 18′, W. 17° 23′			81	27.2	91	nne.			4		6	nne.				4	nne.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.28	769.1	63	17.2	67	ene.			3		4	ene.						d clouds.
H. M. S. Himalaya, N. 35° 47′, W. 6° 25′	30.14	765.5	66	18.9	79	e.			4		3	ene.				6	ene.	d. clouds.
H. M. S. Monarch, Syracuse, Sicily	30.34	770.6	62	16.7	51	nne.			1		3							d. clouds.
H. M. S. Minotaur, Cagliari, Sardinia	30.43	772.9	54	12.2	87	wsw.			1		3	w.						misty.
S. S. Lord Clive, N. 44° 05′, W. 48° 17′						ssw.			5		7		w.	0	0	sli't	nw.	cloudy.
S. S. Prussian, Boston, Mass	29.90	759.4	42	5.6		ssw.			2		8					mod.		misty.
S. S. Dorian, N. 43° 49′, W. 53° 34′	30.13	765.3	39	3.9		s.			6		10		sw.	14 h'r	14 h'r	long	sw.	overcast.
S. S. Carroll, N. 43° 36′, W. 64° 52′			40	4.4		wsw.			2		10		wsw.	h'vy	h'vy	long	sw.	dense fog.
S S. Llandaff City, N. 41° 53′, W. 57° 58′ *†	30.25	768.3	60	15.6		wsw.			6		10		wsw.	rain	rain	high	wsw.	squally
S. S Bothnia, N. 49° 01′, W. 26° 19′	30.25	768.3	46	7.8	84	nnw.			5		5		nnw.	6 h'r	6 h'r	long	nw.	fair.
S. S. Hevelius, N. 38° 28′, W. 14° 18′ *†	30.00	762.0	53	11.7		s.			4		3		s.	6 h'r	6 h'r	sm'h		clear.
S. S. Archimede, (It.) Messina, Sicily			70	21.1		nne.			2		2		nne.	0	0			clear.
S. S. Dominion, N. 48° 45′, W 36° 09			41	5.0	65	nw.			4		10		nnw.			rg'h	nnw.	cloudy.
S. S. Denmark, New York, N Y†	29.86	758 4	40	4.4	100	calm			0		fg.			4 h'r	4 h'r			foggy.
S. S. Erin, N. 49° 40′, W. 18° 10′			43	6.1		nnw.			6		10		w.	2 h'r	2 h'r	mod.	wnw.	light rain.
S. S. Greece, N. 49° 36′, W. 8° 00′ †	30.23	767.8	48	8.9		ese.			2		10		ese.	0	0	sm'h	wnw.	cloudy.
S. S. City of Augusta, Savannah, Ga*†	30.16	766.1				nw.			4		3		nw.	0	0			clear
S. S. Muriel, Lower bay, N.Y	29.96	761.0	41	5.0		ne.			2		6?			0	0			fair?
S. S. Waesland, N. 49° 58′, W. 4° 42′	30.15	765.8	47	8.3		ese.			4		2		se.	0	0	sm'h		fair.
S. S. Westernland, N 41° 28′, W. 65° 28′	30.08	764.0	49	9.4	93	sw.			5		10			4 h'r	4 h'r	high	sw.	foggy.
S. S. Zaandam, New York, N. Y			54.7	12.6	82	calm			0		fg.			0	0			foggy.
S. S. State of Nebraska, N. 44° 08′, W. 47° 30′*†	30.34	770.6	45	7.2		sw.			6		8		w.			sm'h		cloudy.
S. S. State of Nevada, N. 53° 54′ W. 22° 38′			37	2.8		nw.			5		8		nnw.	5 h'r	5 h'r	high	wnw.	snow sh'rs.
S. S. Saxon, Philadelphia, Pa *†	29.91	759.7	55	12.8		sw.			1		5			0	0			
S. S. Celtic, Liverpool, Eng*†	30.12	765.0	53	11.7		sw.			4		8		sw.	0	0			fine.
S. S. Lepanto, Port Said, Egypt	29.95	760.7	62	16.7		wnw.			5		5		w.	2 h'r	2 h'r	mod.	nw.	squally.
S. S. Romano, N. 41° 31′, W. 44° 18′			54	12.2		se.			3		5		se.	0	0	sm'h		fine.
S. S. Salerno, N 43° 18′, W. 58° 16′†	30.15	765.8	48	8.9		sw.			4		10		w.	0.5	13.	mod.	sw.	raining.
S. S. Antonio Lopez, Cadiz, Spain	30.08	764.0				ese.			5	10 c				0	0			hazy.
Bgt. Achsah, N. 42° 48′, W. 66° 55′			41	5.0		sw.			3		10		wsw.	5 h'r	5 h'r	mod.	sw.	light rain
S. Armenia, Casket Ids, Eng			52	11.1	79	se.			4		1			0	0	sm'h	w.	clear.
Bk. Adelaide, N. 30° 44′, W. 39° 16′ *†	30.44	773.2	70	21.1		ssw.			3		2		ssw.	0	0	mod.	se.	fair.
Bk. Benjamin Dickerman, N. 25° 50′, W. 80° 00′*†	30.14	765.5	76	24.4		e.			5		8		e.	0	0	short	e.	smoky.
Bk. Bayonnaise, N. 36° 28′, W. 10° 43′			59.0	15		s.			2		8		sse.	20 minutes		h'vy	se.	covered.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Celestina, N. 1° 20′, W. 24° 31′ *†	29.94	760.5				e.			1		7		var.	0	0	long	nne.	fair.
S. Dora, N. 57° 22′, W. 26° 22′†	29.74	755.4	34.7	1.5		w.			6		5		nw.	12 h'r	12 h'r	cross	nw.	h'vy squalls
S. David Stewart, N. 2° 50′, W. 44° 04′			83	28.3		ene.			6		5		ne.	8 h'r	8 h'r	mod.	ene.	squally.
Schr. Edith R. Seward, N. 34° 20′, W. 67° 20′ †	30.33	770.4	65	18.3		sse.			1		5?		sse.	0	0	sm'h	ese.	clear.?
Bk. Fred W. Carlon, Progreso Roads, Mexico			80	26.7		e.			5				e.	0	0	sm'h	e.	clear.
Bk. Gloire, N. 20° 35′, W. 36° 00′ *	30.09	764.3	72	22.2		e.			3		8		e.	rain	rain	long	ne.	cloudy.
Bk. George Davis, N. 33° 00′, W. 71° 45′*†	30.20	767.1				sse.			4				s.	0	0		e.	d. clouds.
S. Hedwig, N. 40° 52′, E. 18° 31′	30.35	770.8	56.8	13.8	80	n.			1		2		n.	0	0	3	nw.	fair.
Bk. Hattie G. McFarland, Ship Island, Miss†	29.95	760.7	62	16.7		se.			2					c	0			
S. Henry, N. 38° 35′, E. 6° 08′*	30.34	770.6	57.2	14.0		ese.			4	5 ck	0					4	sse.	hazy.
Schr. John L. Thomas, South Hobbies Cays, C. A †	29.90	759.4	77	25.0	82	e.			3		1		e.	0	0			clear.
Bg. John Welsh, jr., Mobile bay, Ala †	30.01	762.2				se.			2		5		se.					fair.
Bg. Lilian, N. 19° 40′, W. 59° 10′†	29.99	761.7	74	23.3		n.			1		4			0	0	mod.	var.	clear.
S. S. Laurel, Key West, Fla†	30.07	763.8	71	21.7		ese.			2-3		6		se.	0	0			fair.
S. S. Madrid, Shields, Eng †	30.05	763.3	52	11.1	86	sw.			3		5		sw.	0	0			fair.
Schr. Minnie A. Bonsall, Jacksonville, Fla			70?	21.1?		calm			0					0	0			dense fog.
Schr. Norena, Fajardo, Porto Rico, W. I†	29.98	761.5				nne.			3		3		ene.	2 h'r	2 h'r			clear.
S. S. Radnorshire, N. 32° 38′, E. 29° 38′ *†	30.00	762.0				nw.			4		2		nw.	0	0	mod.	nw.	clear.
S. Stephen D. Horton, N. 49° 22′, W. 11° 40′†	30.10	764.5				sse.			5		10		s.	0	0	long	nw.	cloudy.
Bk. Silica, N. 39° 36′, W. 38° 15′						ne.			6		8		ne.	0	0	r'gh		cloudy.
Bg. Teneriffe, N. 25° 58′, W. 77° 50′	30.18	766.6				ese.			4		2		e.	0	0	sm'h		fine.
S. S. City of Alexandria, Progreso roads, Mexico*†	29.88	758.9	72	22.2		e.			4								ene.	d. clouds.
S. S. Maasdam, N. 49° 28′, W. 16° 00′			54	12.2		sw.			4-5							high	w.	squally.
S. S. Schiedam, N. 41° 06′, W. 64° 32′*	30.02	762.5	40?	4.4?		sw.			5							sm'h		dense fog.
S. S. Strathleven, N. 38° 52′, W. 58° 10′*	30.14	770.6	59.5	15.3	68	s.			4		7		s.			4	sse.	d. clouds.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.62	752.3	67	19.4	74	sw.			5		8		sw.					cloudy.
H. M. S. Amethyst, Montevideo, Uruguay	29.54	750.3	70	21.1	64	sw.			6		6	s.				2	sw.	squally.
H. M. S. Opal, Simons Bay, Cape Colony	29.94	760.5	68	20.0	79	se.			1		6	se.						d. clouds.
H. P. M. S. Bengo, S. 7° 07′, E. 10° 30′	29.87	758.8	85.1	29.5	89	sw.			3		2		sw.	½ h'r	½ h'r	3	sw.	blue sky.
S. S. George S. Homer, S. 52° 23′, W. 51° 03′*†	29.50	749.3				ssw.			6		8		s.nw.	8 h'r	8 h'r	cross	var.	raining.
Bk. Godeffroy, S. 19° 24′, W. 29° 07′	30.07	763.8	80.8	27.1	77	ene.			4		3 k		ene.	0	0	mod.	ne.	clear.
S. Grecian, S. 56° 04′, W. 66° 10′ †	29.76	755.9	45	7.2	84	ssw.			6		10		s.	sq'lls	sq'll's	long	sw.	squally.
S. Henry Failing, S. 52° 50′, W. 56° 14′ *†	29.54	750.3	47	8.3	77	s.			5		5		ssw.	1 h'r	1 h'r	long	ssw.	fair.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.05	763.3	81	27.2		wnw.			2		2			0	0			clear.
Bkt. Levanter, Montevidéo, Uruguay *	29.65	753.1	68	20.0		sw.			6		4		w.	0	0	light	sw.	fair.
S. St. David, S. 12° 39′, W. 28° 55′ *†	30.07	763.8	82	27.8	79	ene.			4		3		e.	½ h'r	½ h'r	light	ene.	fine.
Bk. Winifred, S. 21° 45′, W. 37° 15′ *†	30.00	762.0											ne.	0	0		ne.	
S. Orealia, S. 23° 36′, W. 27° 36′*	30.04	763.0				ne.			2		2		ne.	0	0	sm'h		clear.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 21° 12′, E. 145° 48′	30.10	764.5	74	23.3	86	ene.			4		5					sm'h		fair.
U. S. S. Essex, Canton, China	30.15	765.8	46	7.8	77	n.			3		8							cloudy.
U. S. S. Hartford, N. 2° 02′, W. 115° 48′	29.83	757.7	77	25.0	95	var.			1		8		e.	light	light	sm'h		cloudy.
U. S. S. Juniata, Shanghai China			33	0.6	80	nw.			2		8		nw.	0	0			cloudy.
U. S. S. Monocacy, Shanghai, China	30.33	770.4	31	— 0.6	79	nw.			2		8		nw.					fair.
U. S. S. Palos, Tientsin, China	30.52	775.2	18	— 7.8		n.			4		0							clear.
U. S. S. Ranger, Corinto, Nicaragua	29.90	759.4	75	23.9	72	ene.			1		2			0	0	sm'h		fair.
H.M.S. Audacious, Victoria harbor, Hong Kong, China			53	11.7	80	n.			1		2	ne.						blue sky.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.03	762.7	56	13.3	87	ese.			4		10	e.				2		showery.
H. M. S. Champion, Shanghai, China	30.36	771.1	30	— 1.1		nw.			1		10							overcast.
H. M. S. Magpie, N. 5° 25′, E. 100° 20′	29.86	758.4	84.3	29.1	74	nw.			2		5	sse.						d. clouds.
H. P. M. S. Pamega, Macao, China	30.06	763.5	50.0	10.0	86	n			6		10			1 h'r	1 h'r			overcast.
S. S. Oceanic, N. 39° 32′, E. 155° 36′	30.02	762.5	38	3.3	72	n.			4-5		5		ne.	hail	hail	4	nne.	fair.
S. S. Oregon, Portland, Oregon †	29.92	760.0	27	— 2.8	88	e.			2		0							clear.
S. S. Willamette, N. 42° 51′, W. 124° 50′ †.	29.70	754.4	41	5.0	91	nne.			4		6		nnw.	0	0	long	nw.	squally
S. S. Alameda, N. 33° 02′, W. 137° 44′†	29.99	761.7	53	11.7		ene			5		9		ene.	0	0	mod.	nw.	cloudy.
S. S. Ancon, Piedra Blanca, Cal	29.47	748.5	51	10.6	65	nw.			5		0			0	0	mod.	sw.	clear.
S. S. City of Chester, San Francisco, Cal †	29.59	751.6	53	11.7	86	ne.			4		10			h'vy	h'vy			
S. S. Queen of the Pacific, Utsalady, Wash Ter	30.00	762.0	31	— 0.6	89	ne.			2		0			0	0			clear.
S. S. State of California, N. 46° 00′, W. 124° 10′†	29.89	759.2	34	1.1	71	ne.			4		0					sm'h	nw.	clear.
S. S. Eureka N. 39° 18′, W. 123° 55′			46	7.8	77	nw.			5		10			4 h'r	4 h'r	r'gh	w.	squally.
S. S. City of Rio de Janeiro, N. 32° 21′, E. 144° 10′ †.	30.06	763.5				sw.			4		5		w.			cross	w.	fair.
S. S. Colima, N. 22° 52′, W. 110° 00′†	29.91	759.7	70	21.1	70	sw.			1		8		sw.	0	0	small	wsw.	cloudy.
S. S. Granada, San Jose, Guatamala†	29.83	757.7	74	23.3	86	ne.			1		0			0	0	light		clear.
S. S. San Blas, Panama, Panama †	29.82	757.4	73	22.8	95	nw.			2		2		nw.	0	0			clear.
S. Carondelet, N. 14° 30′, E. 133° 27′ *†	29.97	761.2				ene.			4		1		ene.	0	0	mod.	ene.	clear.
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru*†	29.98	761.5	71	21.7	100	sse.			1		10		s.			mod	w.	foggy.
U. S. S. Wachusetts, Callao, Peru *.	29.88	758.9	71	21.7	100	se.			1		10		calm			long	wnw.	foggy.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	30.27	768.8	58	14.4	76	calm			0		2							d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 46′	30.24	768.1	59.3	15.2	88	ssw.			1		0					sm'h		blue sky.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	30.09	764.3	66	18.9	64	calm			0		1							blue sky.
S. S. Australia, S. 31° 20′, E. 179° 32′	30.23	767.8	69	20.6	75	ne.			5		6?		ene.	2 h'r	2 h'r	mod.	ene.	overcast.?
S. S. Zealandia, S. 18° 17′, W. 172° 53′	29.82	757.4	79	26.1	78	e.			6		6		e.	1 h'r	1 h'r	cf'd	se.	squally.
S. Ismir, S. 36° 34′, W. 92° 26′ *†	30.50	774.7				se.			1		6		se.	0	0	long	sse	fair.
S. St. Francis, S. 0° 45′, W. 113° 15′*†	29.86	758.4	74	23.3	86	se.			3		5		se.	0	0	mod.	se.	fair.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.79	756.7	67	19.4		n.			1		6	n.				1	n.	
H. M. S. Sylvia, off Sandy Point, Patagonia	29.85	758.2	51.2	10.7	79	wsw.			2		7	calm						d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, S. 29° 05′, E. 36° 42′	29.80	756.9	81	27.2	74	n.			0		5		n.	0	0	mod.	ne.	fair.
H. M. S. Euryalus, Suakin, Egypt	29.80	756.9	75	23.9	86	ne.			4		0							blue sky.
H. M. S. Tourmaline, Tamatave, Madagascar	29.88	758.9	84	28.9	79	nne.			2		2							d. clouds.
S. S. Port Phillip, S. 35° 34′, E. 129° 46′	30.05	763.3	64	17.8	100	se.			3								e.	cloudy

International Chart I. February 6, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 7, 1884,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.15	765.8	76.3	24.6	73	n.	.....	.....	8	.....	6	.....	.....	0	0	cloudy	Roziere.
Algiers	.....	.....	30.26	768.7	65.5	18.6	60	s	.....	.....	1	.....	9	.....	.....	0	0	covered	Théve.
La Galle	.....	.....	30.39	771.8	64.0	17.8	74	w.	.....	.....	1	.....	7	.....	.....	0	0	very cloudy	Fonfrède.
Tunis	.....	.....	30.41	772.5	57.9	14.4	70	w.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	Delord.
Geriville	.....	.....	.....	.....	50.0	10.0	39	s.	.....	.....	6	.....	4	.....	.....	0	0	cloudy	Forfert.
Laghouat	.....	.....	30.47	773.9	64.8	18.2	86	nw	.....	.....	3	.....	0	.....	.....	0.071	1.8	clear	Abraham.
Biskra	.....	.....	30.44	773.1	57.2	14.0	71	calm	.....	.....	0	.....	8	.....	.....	0	0	very cloudy	Gouzon.
Australian.																			
Adelaide, South Australia	.....	.....	30.02	762.5	61.6	16.4	74	s.	13	5.8	.....	.....	0	.....	.....	0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.79	756.7	29.98	761.5	65	18.3	87	n.	10	4.5	.....	.....	1	.....	n.	0	0	hazy	Com. J. Shortt, R.N.
Melbourne, Victoria	29.85	758.2	29.95	760.7	75.5	24.2	62	n.	7	3.1	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.69	754.1	30.26	768.5	44.8	7.1	54	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.42	747.3	30.21	767.4	40.3	4.6	81	wsw.	4.3	1.9	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski
Eperies	29.33	744.9	30.24	768.2	36.7	2.6	91	calm	.....	.....	0	.....	10	.....	.....	0	0	foggy	Julius Mikolik.
Gratz	28.98	736.0	30.26	768.6	45.0	7.2	69	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.77	730.7	30.24	768.0	46.4	8.0	75	s.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. A. Gottschling
Kremsmunster, Obs'y	28.89	733.9	30.29	769.3	39.0	3.9	80	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.17	740.8	30.19	766.7	40.6	4.8	87	nw.	.....	.....	4	.....	10	.....	.....	0.004	0.1	.....	Dr. T. Stanecki.
Pola	30.21	767.4	30.33	770.3	41.0	5.0	97	calm	.....	.....	0	.....	fg.	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.74	755.5	30.22	767.7	42.4	5.8	87	e.	.....	.....	3	.....	9	.....	.....	0	0	.....	Joseph Midlinszky, S. J
Szegedin	29.96	761.0	30.25	768.4	42.8	6.0	88	e.	.....	.....	1	.....	2	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.27	768.8	30.37	771.3	36.0	2.2	93	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Royal Academy.
Vienna	29.56	750.7	30.31	769.9	34.3	1.3	78	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.78	731.0	30.23	767.9	32.0	0.0	100	se.	.....	.....	1	.....	8	.....	.....	0	0	.....	
Brussels	29.96	761.0	30.17	766.3	42.8	6.0	73	ssw.	.....	.....	1	6	.....	sw.	.....	0	0	.....	
Furnes	30.14	765.5	30.32	770.0	38.1	3.4	87	s.	.....	.....	0–1	.....	10	.....	.....	0	0	.....	
Maeseyck	30.06	763.5	30.19	766.7	39.6	4.2	80	sw.	.....	.....	1	.....	10	.....	.....	0	0	dense fog	
British.																			
Aberdeen	29.96	761.0	30.06	763.5	39.4	4.1	50	w.	19	8.5	.....	.....	1	.....	.....	0	0	blue sky	W. Boswell.
Bidston, Liverpool Obs'y	.....	.....	30.09	764.3	42.8	6.0	92	nnw.	6	2.7	.....	.....	10	.....	.....	.....	.....	raining	John Hartnup.
Bolton, Sharples	29.55	750.6	30.09	764.3	38.6	3.7	95	ssw.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth.
Bradford, Yorkshire	29.69	754.1	30.08	764.0	43.9	6.6	87	w.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.00	762.0	30.03	762.7	79	26.1	82	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	overcast	Corp'l C. McGregor, A.H.C
Cardington	.....	.....	.....	.....	38.4	3.6	90	n.	.....	.....	0.4	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.94	760.5	30.12	765.0	41.1	5.1	89	calm	.....	.....	0	.....	10	.....	.....	.....	.....	misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.84	757.9	30.08	764.0	47.5	8.6	85	nne.	.....	.....	1	.....	9	.....	.....	.....	.....	misty	The Staff.
Fort Napier, Natal	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.68	753.9	29.91	759.7	84	28.9	75	sw.	.....	.....	4	.....	0?	.....	.....	.....	.....	d. clouds ?	J. W. Smith.
Galway, Queen's College	30.07	763.8	30.11	764.8	40	4.4	91	n.	.....	.....	1	.....	6	.....	.....	0.06	1.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.06	763.5	30.12	765.0	60.0	15.6	94	w.	.....	.....	3	.....	10	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A.H.C.
Greenwich, Royal Obs'y	29.93	760.2	30.11	764.8	41.0	5.0	87	e.	.....	.....	.....	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.76	755.9	30.06	763.5	44.1	6.7	99	s.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F.R.M.S.
Kew, Observatory	30.07	763.8	30.11	764.8	41.3	5.2	84	s.	2	0.9	.....	.....	.....	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	29.82	757.4	30.09	764.3	41.0	5.0	87	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	30.23	767.8	30.31	769.9	59.2	15.1	68	sw.	.....	.....	2	.....	2	.....	.....	0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.19	766.8	71.0	21.7	71	e.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.88	758.9	30.11	764.8	39.6	4.2	89	calm	.....	.....	0	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.98	761.5	30.06	763.5	44.8	7.1	86	calm	.....	.....	0	.....	10	.....	.....	.....	.....	misty	John Merrifield.
Sandwick Manse, Orkneys	29.84	757.9	29.94	760.5	39.4	4.1	70	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.20	767.1	30.27	768.8	49.6	9.8	66	sw	.....	.....	1	.....	1	.....	.....	blank	blank	blue sky	W. H. Lyne.
Sheffield	29.89	759.2	30.09	764.3	44.0	6.7	90	calm	.....	.....	0	.....	10	.....	.....	.....	.....	drizzling	W. F. Cooper.
Silloth Rectory	30.06	763.5	30.09	764.3	45.0	7.2	86	nw.	.....	.....	1	.....	4	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.10	764.5	42.2	5.7	96	w.	2	0.9	.....	.....	10	.....	.....	0.031	0.8	overcast	Rev. S. J. Perry.
Strathfield Turgiss	.....	.....	.....	.....	41.8	5.4	87	se.	.....	.....	1.0	.....	10	.....	.....	.....	.....	foggy	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.09	764.3	30.11	764.8	43.9	6.6	64	ne.	15	6.7	.....	.....	8	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.98	761.5	30.37	771.4	56.8	13.8	69	sw.	5.0	2.2	.....	0	8 k	.....	sw.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.07	763.8	30.11	764.8	20.0	— 6.7	.....	calm	0	0	.....	10 os	0	w.	.....	0.200	5.1	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.05	763.3	30.10	764.5	18	— 7.8	97	n.	6	2.7	.....	.....	10 n	.....	calm	0.682	17.3	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.05	763.3	30.12	765.0	16	— 8.9	96	sw.	1	0.4	.....	.....	10 s	.....	sw.	0.21	5.3	cloudy	G. A. Blair.
Cornwall, Ontario	29.94	760.5	30.15	765.8	21.2	— 6.0	77	nw.	.....	.....	1	.....	10 s	.....	.....	0.300	7.6	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.03	762.7	30.08	764.0	16.5	— 8.6	.....	calm	.....	.....	0	.....	10 s	.....	.....	0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.04	763.0	30.06	763.5	12	—11.1	91	e.	8	3.6	.....	.....	10 n	.....	.....	0.10	2.5	light snow	J. McWilliams
Fort Garry, Manitoba*	29.51	749.5	30.54	775.7	—37	—38.3	95	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton, N. B.	30.05	763.3	30.12	765.0	20.1	— 6.1	99	e.	4	1.8	.....	.....	10 s	.....	.....	0.550	14.0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B.	30.03	762.7	30.09	764.3	29	— 1.7	88	calm	0	0	.....	.....	10 s	.....	.....	0.31	7.9	cloudy	J. Chipman Seeley
Granton, Ontario	29.13	739.9	30.31	769.9	20.3	— 6.5	96	n.	2	0.9	.....	.....	10 n	.....	.....	inap	inap.	overcast	Jas. Grant.
Halifax, N. S*	29.91	759.7	30.04	763.0	33	0.6	100	n.	2	0.9	.....	.....	10 n	.....	.....	0.226	5.7	light rain	A. Allison.
Hamilton, Ontario	29.80	756.9	30.24	768.1	21.9	— 5.6	88	sw.	.....	.....	1	8 ck	0	sw.	.....	0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.96	761.0	30.32	770.1	21	— 6.1	87	calm	0	0	.....	.....	10 k	.....	.....	0.09	2.3	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.94	760.5	29.98	761.5	26.5	— 3.1	94	ne.	3	1.3	.....	10 c	0	.....	.....	0	0	overcast	C. H. Rigby.
London, Ontario	29.31	744.5	30.28	769.1	22.3	— 5.4	90	n.	.....	.....	2	.....	10 ks	.....	.....	0.25	6.3	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.64	702.0	30.31	769.9	—21	—29.4	80	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	John Ewart.
Minnedosa, N. W. T	28.22	716.8	30.56	776.2	—33	—36.1	100	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	29.92	760.0	30.15	765.8	17	— 8.3	83	e.	1	0.4	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.83	757.7	30.08	764.0	10.8	— 8.4	86	nw.	.....	.....	.....	.....	10 s	.....	.....	0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario	29.55	750.6	30.32	770.1	8	—13.3	76	w.	4	1.8	.....	0	0	.....	.....	0.03	0.8	clear	Rev. R. Mosley.
Peterboro, Ontario	29.10	739.1	29.88	758.9	20.4	— 6.4	82	sw.	.....	.....	1	8 c	0	.....	.....	inap	inap.	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.79	756.7	30.60	777.2	— 7	—21.7	65	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.51	749.5	30.24	768.1	26	— 3.3	100	nw.	5	2.2	.....	.....	10 n	.....	.....	0.21	5.3	threatening	H. Morgan.
Port Stanley, Ontario	29.53	750.0	30.24	768.1	24	— 4.4	88	ne.	5	2.2	.....	.....	10 n	.....	n.	0.12	3.0	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.75	704.8	30.43	772.9	—26	—32.2	.....	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.70	754.4	30.09	764.3	15	— 9.4	87	calm	0	0	.....	.....	10 s?	.....	.....	0.35	8.9	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.73	755.1	30.24	768.1	10	—12.2	80	nw.	8	3.6	.....	.....	10 k	.....	w.	0.14	3.6	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.02	762.5	30.07	763.8	27	— 2.8	90	n.	4	1.8	.....	.....	10 n	.....	.....	0.73	18.5	cloudy	
St. John, N. B	29.93	760.2	30.08	764.0	24.0	— 4.4	100	ne.	8	3.6	.....	.....	10 n	.....	.....	0.86c	21.8	overcast	G. Hutchinson.
St. Pierre, N. F	.....	.....	29.96	761.0	35.2	1.8	.....	w.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	The Commandant.
Saugeen, Ontario*	29.52	749.8	30.29	769.4	17	— 8.3	87	n.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	
Stratford, Ontario	28.93	734.8	30.31	769.9	18.1	— 7.7	94	w.	2	0.9	.....	.....	10 s	.....	.....	0.140	3.6	overcast	W. McBride, M.A.
Sydney, C. B*	29.97	761.2	30.04	763.0	26	— 3.3	92	calm	0	0	.....	.....	10 n	.....	.....	0.13	3.3	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
Toronto, Ontario*	29.86	758.4	30.27	768.8	21	— 6.1	87	n.	16	7.2			10 ks		w.	0.10	2.5	cloudy	Director Observatory.
Woodstock, Ontario	29.15	740.4	30.29	769.4	21.6	— 5.8	86	w.	12	5.4			10 s			0.150	3.8	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.98	761.5	30.05	763.3	34	1.1	96	n.	1	0.4		10 k	hz	w.		0.27	6.9	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	30.21	767 3	30.24	768.1	70.0	21.1	87	ne.				0	8 s			0.040	1.0	fine	I. Garfelt.
Cape Town, The Castle	29.93	760.2			78.5	25.8	37	s.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.84	707.1			83	28.3	43									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.80	756.8	29.87	758.7	61.7	16.5	85	nw.			2	10						cloudy	Samuel Redolez.
Iquique	29.85	758.1	29.87	758.8	69.8	21.0	85	nw.			2							cloudy	Rafael Moreno.
Niebla	29.60	751.7	29.70	754.4	56.1	13.4	62	e.			5	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.80	756.8	29.88	759.0	65.5	18.6	81	sw.			1	10 c		sw.				cloudy	Manuel Tobar.
Punta Corona	30.00	762.1	30.19	766.8				s.			4	0				0	0	clear	Francisco Alvarado.
Valparaiso	29.71	754.5	29.84	758.0	68.4	20.2	87	sw.			0	0	0					clear	Paez-I-Ampuero.
CHINESE (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.48	774 1	30.50	774.7	23.5	— 4.7	75	nw.	7.4	3.3		0	0			0	0	clear	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	29.95	760.8	30.00	762.0	42.1	5 6	86	sw.	18	8			10					foggy	Oversergent Fischer.
Fanöe	30.00	762.1	30.02	762.6	41.5	5.3	91	wsw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.11	739.5	29.16	740.6				ssw.			8		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.52	749.8	29.54	750 3	3.6	—15.8		calm			0		10						
Jacobshavn, Greenland	28.93	734.8	28.98	736.0	—17.5	—27.5		calm			0		5						
Stykkisholm, Iceland	29.07	738.4	29.11	739.5	21.2	— 6.0	87	e.			7		10					snowing	A. O. Thorlacius.
Thorshavn	29.66	753.4	29.69	754 0	34.2	1.2	73	wnw.	20	9			5					raining	Overloerer Bergh.
Upernavik, Greenland	29.22	742.2	29.27	743.4	—33.0	—36.1		ne.			2		1						
Vestervig	29.78	756.4	29.87	758.7	41.4	5.2	94	w.			7		10					raining	Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.91	759.7			53.6	12.0		n.	4.5	2.0			10			inap.	inap.	covered	Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.56	750.9	30.22	767.7	55.8	13 2	88	sse.			2	1 ck			se.	0	0		M. Labroue, Director.
Alençon, Normal School	29.57	751.0	30.12	765.0	39.2	4.0	96	s.			1		1		n.	0	0		M. Nicot, Director.
Arras, Normal School	29.46	748.2			36.9	2.7	85	ese.			2		0			0	0	clear	M. Ungerer, Director.
Avignon, Normal School	30.23	767.9	30.31	769.9	50.0	10	62	nne.			1		5		se.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.63	752.7	30.21	767.3	41.7	5.4	80	se.			1		5			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.90	759.5	30.18	766.5	38.7	3.7	80	se.			1		8		se.	0	0	very cloudy	M. Frère Eugène Mariè.
Besançon, Normal School	29.30	744.2	30.17	766.4	56.1	13.4	80	sw.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.87	758.6	30.13	765.3	54.9	12.7	72	se.			1		2			0	0	misty	M. Rayet, Director.
Bourges, Normal School	29.63	752.7	30.20	767.0	50.0	10.	97	ene.			1		1		ene.	0.012	0.3	clear	M. Sauvageot, Director.
Brest, Naval Observatory	29.87	758.8	30.12	765 0	48.2	9.0	92	calm			0		10			0	0	misty	M. de Kermarrée, Dir.
Caen, Normal School	30.00	761.9	30.07	763 8	46.0	7.8	97	s.			1		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.87	758.8	30.21	767.3	37.9	3.3	52	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.67	753.6	30.22	767.6	33.6	0.9	85	se.			1		10			0	0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.79	731.2	30.15	765.8	55.0	12.8	57	nw.			1		5			0	0		M. Allnard, Director.
Cluny, Normal School	29.36	745.7	30.20	767.0	48.6	9.2	86	e.			1		2		e.	0	0	slightly cl'dy	M. de Villemontée, Dir.
Commercy, Normal School	29.34	745 3	30.24	768.2	37.0	2.8	86	sw.			1		2 n	sw.	sw.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.67	702.8	30.25	768.4	45.7	7.6	46	calm			0		5 n		ene.	0	0		M. Jarach, Director.
Gréasque, du Rhone	29.15	740.5	30.32	770.0	45.5	7.5	83	s.			1		7		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.51	749.6	30.31	769.9	41.7	5.4	78	nne.			1		k		ne.	0	0		M. Allard, Director.
Guéret, Normal School	28.56	725 3	30.16	766.1	53.6	12.1	57	se.			1					0	0		M. Delorme, Dir.
Lescar, Normal School	29.53	750.0	30.09	764.3	61.3	16.3	49	ese.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.00	762.1	30.11	764 7	55.4	13.0	81	ssw.			2		10	w.	ssw.	0.197	5.0	raining	L. T. Carre, Director.
Lyon, St. Genis-Laval	29.15	740.4	30.22	767.6	51.6	10.9	73	se.			1	5 ck			w.	0	0	fair	M. André, Director.
Mans, Normal School	29.82	757.5	30.14	765.6	43.2	6.2		ssw.			1		2 cs		ssw.	0	0	slightly cl'dy	M. Richard, Director
Marseille, Observatory	30.02	762 4	30.29	769.4	52.7	11.5	70	e.			0–1		10		sw.	0	0		M. Stephan, Director.
Montlouis	24.95	633.6	25 79	756.6	44.6	7.0	55	w.	11.2	5.0			6	sw.		0	0		M. Cuve for Dr. Fines.
Montpellier, Normal School	30.18	766.6	30.29	769.4	55.4	13	79	ese.			2		5		nw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.45	748.1	30.28	769.1	29.5	— 1.4	92	wsw.			1					0	0	foggy	M. Hasse, Director.
Nantes, Observatory	29.99	761.8	30.15	765 9	56.3	13.5	75	s.			1–2	3 c				0	0		M. Larocque, Director.
Perpignan, Observatory	30.11	764.8	30.22	767 6	56.5	13.6	67	ne.	1.8	0.8			8		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.20	540.8			36.3	2.3							5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.18	741.1	30.26	768.5	54.7	12.6	66						n			0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25 25	641.4			39.2	4.0	64	sw.			2		2			0	0	foggy	M. Allnard.
Rochefort, Naval Obs'y	30.13	765.4	30.17	766.2	55.4	13.0	81	s.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.91	759.7	30.13	765 3	49.6	9.8	84	se.			1					0	0		M. Brotier, Director.
Rodez, Normal School	28.02	711 8	30.19	766.9	49.1	9.5		se.			4		ks		nw.	0	0		M. Seger, Director.
Rouen, Normal School	30.10	764 5	30.15	765.7	41.0	5	81	se.			1		0			0	0	clear	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	30.02	762.4	30.18	766.6	39.4	4.1	84	ssw.			1			wsw.	wsw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.45	748.0	30.18	766.5	57.0	13.9	74	sse.			6		2	ese.		0	0	slightly cl'dy	M. Baillard, Director.
Tours	29.98	761.5	30.16	766 1	49.3	9.6	76	ese.			1					0	0		M. de Tastes.
Versailles, Observatory	29.67	753.6	30.17	766.2	40.3	4.6	87	s.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29 97	761.1	30.11	764.9	53.2	11.8	71	ne.	7.8	3.5			9 ks			0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.78	731 0	30.28	769 1	41.4	5.2	63	calm			0		0			0	0		Prof. Jnedt.
Bamberg	29.37	746.1	30.22	767.7	33.8	1.0	73	calm			0		10			0	0	dense fog	Prof. Dr. Hoh.
Berlin	30.04	762 9	30.19	766.7	45.0	7.2	58	sw.			2		3			0	0		Meteorological Institute
Breslau	29.71	754.6	30.24	768.2	41.9	5.5	62	wnw.			2		5			0.004	0.1		Royal University Obs'y
Carlsruhe	29.82	757 4	30.31	769.8	30.9	— 0.6	100	calm			0		10			0	0		Albert Senz.
Cassel	29.49	749.0	30.20	767.1	36.5	2.5	68	s.			3		3	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.89	759.2	30.28	769.1	34.3	1.3	92	s			1		10			0	0		Physical Society.
Friedrichshafen	28.83	732.2	30.32	770 0	34.2	1.2	72	nw.			1		10			0	0	foggy	Wilhelm, Chief Tel.
Hamburg	30.11	764.7	30.20	767.0	40.3	4.6	86	sw.			3		10			0	0	misty	E. Preiter.
Kiel	30.10	764 4	30.11	764 8	41.9	5.5	81	wsw.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.80	756.9	30.24	768.0	40.6	4.8	74	sw.			2		7	sw.		0	0		H. Leppig, Asst.
Magdeburg	30.01	762.3	30.21	767.3	42.8	6.0	69	s.			1		0			0	0		Weather Observatory.
Memel	29.98	761.5	30.03	762 7	39.4	4.1	100	w.			4		10					foggy	Issermann.
Munich	28.41	721.5	30.28	769.2	45.1	7.3	47	n.			1		2	n.		0	0		Central Station.
Neufahrwasser	30.08	764.0	30.10	764 4	42.1	5.6	89	sw.			3		10			0	0		A. Lothes.
Neustadt, Palatinate	29.73	755.2	30.26	768.7	31.6	— 0.2	90	w.			1		10			0	0	foggy	Prof. Dicknether.
Stuttgart	29.26	743 2	30.18	766.6	43.3	6.3	74	ne.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.07	763.8	30.10	764.4	39.6	4.2	84	sw.			5		10			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens																			Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.89	759.1	29.94	760.4	72.8	22.7	67	sw.	25.0	11.2			0			0	0	blue sky	
Deesa	29.42	747.3	29.90	759.4	80.1	26.7	14	wnw.	4.0	1.8			0			0	0	blue sky	
Bombay	29.86	758.6	29.90	759 5	76.8	24.9	73	nw.	14.0	6.3			0			0	0	blue sky	
Poona, Yarrowda	28.02	711.8	29.87	758.6	82.3	27.9	28	wnw.	18.0	8.0			2			0	0	d. clouds	
Belgaum	27 36	694 9	29.90	759.3	76.8	24.9	50	wsw.	6.0	2.7			4	w.	e.	0	0	d. clouds	
Lahore	29.23	742 4	30.00	762.1	62.6	17.0	46	calm	0	0			0			0	0	blue sky	
Roorkee	28.97	735 8	29.90	759 3	63.8	17.7	39	w.	2.0	0.9			0			0	0	blue sky	
Agra	29.36	745 8	29.94	760.6	68.2	20.1	27	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.85	732.9	29.90	759.6	77.5	25.3	35	wsw.	3.0	1.3			7	w.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.56	725.4	29.94	760.5	70.2	21.2	29	calm	0	0			0			0	0	blue sky	
Lucknow	29.53	750.2	29.93	760.1	62.3	16.8	30	n.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.60	751.9	29.92	760.0	66.8	19.3	46	calm	0	0			0			0	0	blue sky	
Patna	29.72	754.8	29.91	759.7	66.8	19.3	34	wnw.	3.9	1.7			0			0	0	blue sky	
Hazaribagh	27.87	707.8	29.94	760.4	62.7	17.1	23	wnw.	6.0	2.7			0			0	0	blue sky	
Cuttack	29.82	757.4	29.90	759.6	75.0	23.9	42	nw.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	29.89	759.2	29.91	759.8	67.5	19.7	47	calm	0	0			0			0	0	blue sky	
Dhubri	29.81	757.1	29.93	760.3	65.4	18.6	52	calm	0	0			0			0	0	blue sky	
Chittagong	29.93	760.2	30.02	762.6	68.8	20.4	52	w	2.6	1.2			0			0	0	misty	
Sibsagar	29.62	752.3	29.97	761.3	57.8	14.3	84	ne.	1.0	0.4			8	w.	w.	0.01	0.3	d. clouds	
Jeynore	28.48	723.2	29.96	761.0	68.6	20.3	38	nw.	6.0	2.7			0			0	0	blue sky	
Zanzibar	29.89	759.2	29.91	759.8	81.9	27.7	69	nnw.	7.5	3.4			2	nne.	ene.	0	0	d. clouds	
Bellary	28.38	720.8			86.0	30.0	22	e.	2	0.9		5 c	0			0	0	d. clouds	
Trichinopoly	29.64	752.8			84.6	29.2	25	ne.	0.2	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.91	759.6	30.33	770.4	40.1	4.5	84	calm	0	0			1			0	0		Prof. Giovanni Olodig.
Milan	29.78	756.4	30.32	770.1	46.9	8.3	66	ne.	1.3	0.6			3			0	0		Prof. G.V.Schiapparelli
Padua	30.22	767.6	30.34	770.5	33.8	1.0	98	ne.	0.7	0.3			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.36	745.7	30.30	769.5	43.7	6.5	70	ne.	0.7	0.3			1	s.		0	0		Prof. F. F. Denza.
Genoa	30.12	765.0	30.32	770.0	52.0	11.1	72	se.	7.4	3.3			10	se.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.27	768.9	30.32	770.2	46.9	8.3	82	w.	5.6	2.5			3			0	0		Prof. Luigi Guidi.
Florence	30.06	763.6	30.32	770.2	46.0	7.8	77	e.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	30.20	767.1	30.27	768.9	58.4	10.8	74	wnw.	3.8	1.7			10			0	0		Prof. P. Monte.
Rome	30.15	765.8	30.33	770.3	52.5	11.4	64	nnw.	0	0			7			0	0		Prof. P. Tacchini.
Lecce	30.02	762.6	30.28	769.2	57.9	14.4	65	nne.	2.5	1.1			0			0	0		Prof. C. de Giorgi.
Cosenza	29.41	747.0	30.33	770.3	54.3	12.4	77	s.	2.5	1.1			1	sw.		0	0		Prof. D. Conti.
Cagliari																0	0		Prof. A. Pacinotti.
Palermo	30.08	764.1	30.34	770.5	56.5	13.6	70	ne.	1.8	0.8			5			0	0		Prof. G. Cacciatore
Syracuse	30.28	769.1	30.33	770.3	56.5	13.6	71	nne.	1.8	0.8			0			0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.80	756.8	30.33	770.4	54.1	12.3	75	se.	1.3	0.6			8	sse.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.75	755.7	29.78	756.6	36.7	2.6	86	calm			0		10 n			0.380	9.8	raining	H. Hattori.
Awomori	29.76	755.9	29.79	756.6	35.3	1.8	86	e.	16.6	7.4			10 n		e.	0.123	3.1	light rain	K. Ogawa.
Hakodate	29.85	758.1	29.86	758.4	31.5	— 0.3	94	ene.	42.0	18.8			10 n			0.142	3.6	snowing	Y. Souma.
Hamamatsu	29.70	754.4	29.80	756.9	39.4	4.1	81	w			4	0	1 s		w.	0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.01	762.2	30.02	762.6	31.8	1.6	77	nw.	6.3	2.8			9 s;n		w.	0	0	cloudy	Y. Okamoto.
Kagoshima	30.10	764.4	30.11	764.7	38.0	3.8	63	n.			4		10 s		nw.	0	0	overcast	
Kanazawa	29.76	755.9	29.87	758.6	36.8	2.7	92	s.	9.7	4.3			10 n			0.371	9.4	raining	S. Endo.
Kioto	29.72	754.8	29.89	759.2	32.1	0.1	97	s.	0.2	0.1		0	3ck;s		nw.	inap.	inap.	fair	M. Tojima.
Kochi	29.92	759.9	29.94	760.4	37.6	3.1	71	w.	4.7	2.1		7 ck	0	nw.		0	0	cloudy	K. Kusunose.
Miasaka	30.05	763.2	30.07	763.9	37.0	2.8	60	w.			2	1 ck	1 ks	w.	w.	0	0	fair	K. Masusaki.
Miyako	29.75	755.8	29.87	758.6	32.7	0.4	100	calm	0	0			10 n			2.284	58.0	snowing	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.95	760.7	30.17	766.3	31.3	1.3	71	nw.	6.6	2.9			10 s		nw.	0.020	0.5	overcast	
Nemuro	30.13	765.3	30.18	766.6	21.5	— 5.8	51	ne.	6.0	2.7		10 k?	0			0	0	clear ?	A Shibuya.
Niigata	29.76	755.9	29.79	756.6	36.5	2.5	90	sw.	3.0	1.3			10 n		sw.	0.170	4.3	light rain	Satoo & Tomikawa.
Nobiru	29.71	754.7	29.73	755.1	34.6	1.4	95	nnw.	14.7	6.6			10ks;n			0.190	4.8	covered	Yoshino & Midzushina.
Numadzu	29.73	755.1	29.76	756.0	42.0	5.6	92	nne.			2		10 ks			0.012	0.3	overcast	T. Ohgi.
Osaka	29.89	759.2	29.91	759.6	32.8	0.4	94	ssw.	0.2	0.1		5 ck	5ck;s	w.		0	0	cloudy	H. Omura.
Sakai	29.07	761.3	29.98	761.5	32.6	0.3	61	w.			2		10 n		w.	0.079	2.0	snowing	Yamawchi & Sakamoto.
Sapporo	29.89	759.1	29.96	760.9	23.0	— 5.0	88	e.	11.5	5.1			10 s			0.048	1.2	covered	S. Kimura.
Shimonoseki	29.95	760.7	30.09	764.3	33.8	1.0	84	w.			4		10 n			0.043	1.1	snowing	S. Sakano.
Wakayama	29.86	758.5	29.92	759.9	35.4	1.9	90	calm	0	0			10n;ck		nw.	0.010	0.3	raining	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.75	755.6	29.94	760.5	81.5	27.5	70	e.	15.5	6.9			10n;ks		ese.	0.36	9.1	overcast	The Staff.
MEXICAN.																			
Leon	24.25	615.9	30.04	763.0	48.2	9.0	73	calm	0	0		0	1 s			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.70	754.4	29.96	761.1	68.0	20.0	70	nne.	1.6	0.8		3 cs	0	w.		0	0	light haze	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.17	766.3	30.17	766.3	39.4	4.1		sse.			3					0.012	0.3		
Groningen	30.17	766.3	30.22	767.7	42.4	5.8		wsw.								0	0		
Helder	30.16	766.0	30.16	766.0	40.8	4.9		ssw.			2					0	0		
Hellevoetsluis	30.19	766.7	30.19	766.7	49.6	9.8	84	sw.			2					0	0		
Utrecht	30.14	765.6	30.20	767.0	39.4	4.1	84	sw.			2		5			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	758.9			74.8	23.8	96	ne.	0.5	0.2			10			0.173	4.4		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.67	753.5	29.73	755.1	39.2	4.0	67	wnw.	27	12			5			0.984	25.0		
Brono	29.11	739.5	29.15	740.5	32.4	0.2	90	calm			0		10			0.118	3.0	snowing	
Christiania	29.36	745.8	29.51	749.5	41.9	5.5	77	ssw.	11	5			10			0	0		
Gjesvær	29.01	736.9	29.04	737.5	29.7	— 1.3		wsw.			7		2			0.067	1.7		
Lodingen	29.11	739.4	29.16	740.6	31.1	— 0.5	85	sw.			4		10			0.244	6.2	snowing	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.86	758.4	29.95	760.6	61.0	16.1	69	calm	0	0			3	n.		1.098	27.9		Capt. D. A. de Cunha.
Lisbon, Observatory	29.72	754.8	30.06	763.4	55.2	12.9	84	e.	6.9	3.1			10			0.016	0.4		The Staff.
Ponta Delgada, Azores	30.05	763.2	30.12	765.0	53.6	12.0	88	nne.	46.1	20.6			3			0.567	14.4		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.06	763.6	30.10	764.5	68.9	20.5	67	ene.			5		3			0	0		
San Salvador, Congo	28.06	712.6	29.88	759.0	79.2	26.2	72	sw.			1		8			0.449	11.4		
Serra da Estrella	25.22	640.5	30.08	763.9	35.6	2.0	100	ese			5		10			0.787	20.0	rain & fog	
RUSSIAN.																			
Akmolinski	28.48	723.3	29.61	752.2	18.9	— 7.3	90	sse.	7	3		0	6			0	0		Major K. Lasarew.
Archangel	29.22	742.2	29.24	742.7	23.7	— 4.6	93	w.	13	6			10			0.126	3.2	snowing	Capt. Sselliwerstow
Ashuruda	30.32	770.2	30.23	767.8	50.4	10.2	82	e.	2	1			10 ku			0.004	0.1		
Astrakhan	30.12	765.1	30.04	763.1	35.4	1.9	71	wnw.	22	10		0	8 k			0	0		Capt. Wisganow.
Baku	30.28	769.2	30.24	768.0	45.1	7.3	62	nne.	9	4		0	1 s			0	0		
Barnaul	29.58	751.4	30.12	765.1	15.8	— 9.0	85	calm	0	0			10			0.287	7.3		Meteorological Office.
Bielosersk	29.16	740.6	29.64	752.9	25.9	— 3.4	89	wsw.	13	6			10 s			0.071	1.9		
Dorpat	29.56	750.7	29.81	757.1	35.2	1.8	100	sw.	7	3			10 n			0.071	1.8	foggy	Observatory.
Ekaterinburg	28.46	722.9	29.50	749.3	4.8	—15.1	86	w.	4	2		7ck;cs	0			blank	blank		Meteorological Obs'y
Elisawetgrad	29.76	750.0	30.23	767.9	37.6	3.1	88	sw.	4	2			10 s;n			inap.	inap.		
Kasan	29.28	743.7	29.56	750.9	10.4	— 7.0	92	calm	0	0			10			0.020	0.5	light snow	Observatory.
Kem	29.31	745.2	29.39	746.5	25.2	— 3.8	78	w.	18	8		0	1 ks			blank	blank		
Kertch	30.19	766.8	30.21	767.4	41.4	5.2	90	calm	0	0			10 n			0.094	2.4		Lagorio & Sastyrez.
Kieff	29.45	748.0	30.11	764.8	35.4	1.9	96	sse.	4	2			10 n			0.094	2.4	raining	Observatory.
Koslov	29.43	747.4	29.95	760.8	28.6	— 1.9	48	wnw.	16	7			0			0	0		
Lgov	29.60	751.9	30.22	767.6	29.7	— 1.3	95	wsw.	7	3			10			blank	blank		R. I. Ssaweljew, Engin'r.
Libau	29.92	760.0	29.95	760.6	39.0	3.9	98	sw.	11	5			10			0	0		F. Junas
Lugan	29.95	760.8	30.17	766.2	36.0	2.2	72	w.	9	4			3			0	0		Meteorological Obs'y
Moscow	29.36	745.8	29.87	758.6	25.2	— 3.8	78	w.	18	8		5 cs	0			0	0		Meteorological Obs'y
Nertschinsk	28.08	713.1	30.73	780.5	—13.5	—25.3	78	calm	0	0			0			0	0		
Nikolaiev	30.15	765.8	30.22	767.6	40.5	4.7	90	calm	0	0			10 n			0	0		Capt. Kurdakow.

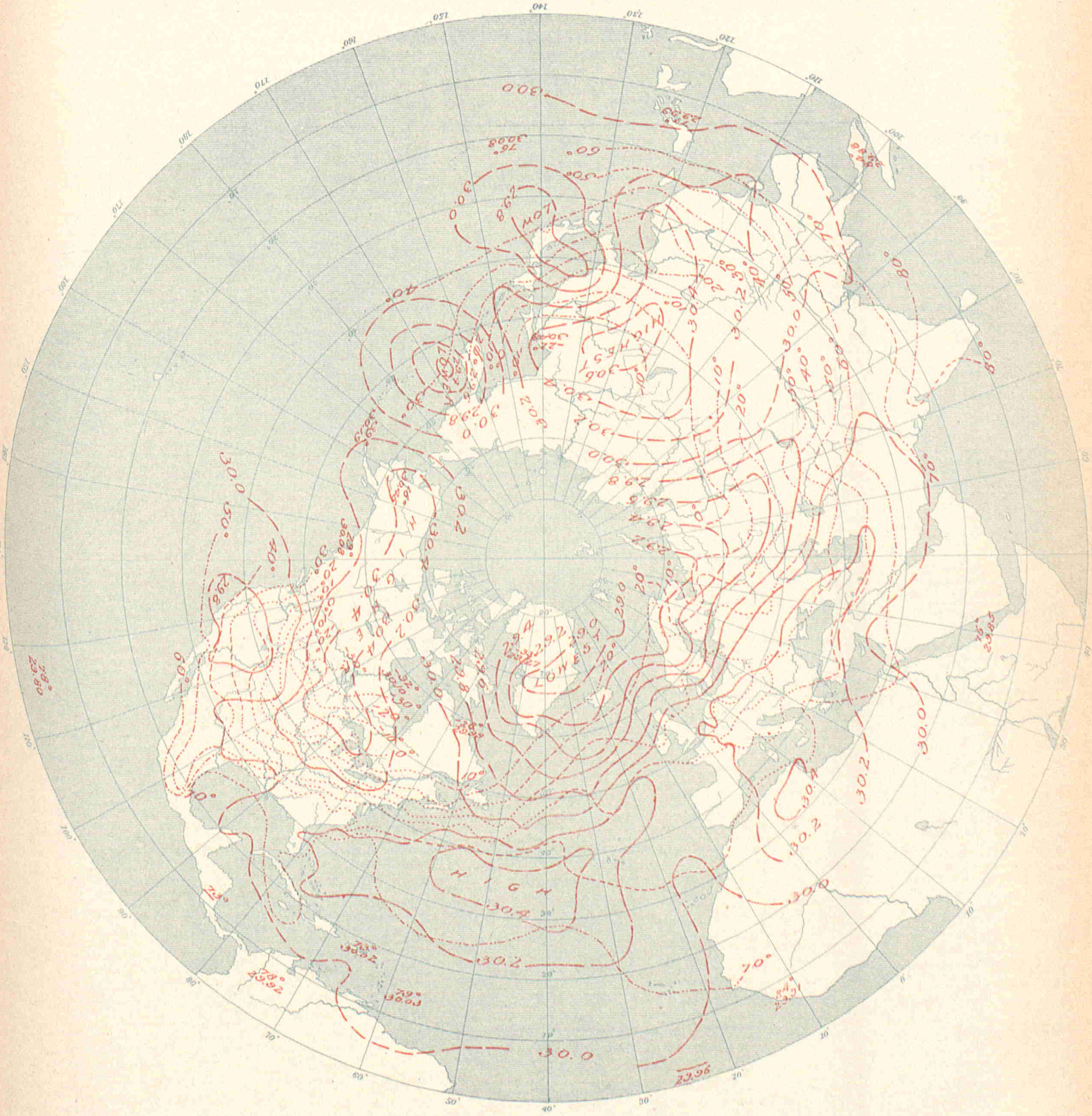
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	30.40	772.1	30.48	774.3	—22.0	—30.0	79	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.34	770 5	30.48	774.1	19.2	— 7.1	27	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Siang.
Petro-Alexandrovsk	29.76	755.9	30.13	765 2	37.4	3.0	59	w.	9	4	.....	.....	10	.....	.....	.....	.....	.....	Walter.
Petrozavodsk	29.38	746.2	29.58	751.4	27.5	— 2.5	79	wnw.	22	10	.....	0	7 ks	.....	.....	0.106	2.7	.....	Dr. Bergmann.
Pinsk	29.60	751.9	30.11	764.9	38.1	3.4	95	w.	13	6	.....	.....	10 n	.....	.....	0.272	6.9	raining	
Poti	30.31	769.9	30.34	770.7	45.0	7.2	90	calm	0	0	.....	0	5 ks	.....	.....	0.165	4.2	.....	
St. Petersburg	29.72	755.0	29.75	755.6	33.8	1.0	87	w.	9	4	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.51	698.8	29.98	761.6	52.7	11.5	50	sw.	7.8	3.5	.....	.....	9 n	.....	.....	.....	.....	.....	Dresch.
Semipalatinsk	29.32	744.8	30.02	762.5	23.5	— 4.7	95	se.	9	4	.....	.....	10	.....	.....	0.024	0.6	.....	Major Lasarew
Sevastopol	30.01	762.3	30.23	767.9	45.0	7.2	80	n.	4	2	.....	.....	10 n	.....	.....	0 012	0.3	.....	
Starol Bykhov	29.45	748 0	30.02	762.6	35.6	2.0	93	se.	4	2	.....	.....	10	.....	.....	blank	blank	.....	Carl Hagen.
Tashkend, Laboratory	28.28	718.2	29.92	760.3	56.8	13.8	32	s.	7	3	.....	.....	10 n	.....	.....	.....	.....	.....	Terca, A. M
Tiflis	28 79	731.2	30.20	768.0	40.6	4.8	44	nw.	38	17	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.26	692.4	29.87	758.7	27.3	— 2.6	64	calm	0	0	.....	0	6 k	.....	.....	.....	.....	.....	Sariono.
Viatka	28.79	731.3	29.46	748.3	11.8	—11.2	100	se.	2	1	.....	.....	10	.....	.....	0.031	0.8	.....	
Vladivostock	29.07	753.6	29.74	755.3	8.8	—12.9	90	nne.	45	20	.....	.....	10 n	.....	.....	0	0	.....	
Warsaw	29.74	755.3	30.17	766.4	40.6	4.8	86	wnw.	13	6	.....	.....	10 n	.....	.....	.....	.....	heavy clouds	Astronomical Obs'y.
Yeniseisk	30.03	762.7	30.35	770.9	— 3.8	—19.9	73	e.	2	1	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.23	742 4	29.75	755.6	27.1	— 2.7	64	wsw.	23.5	10.5	.....	3 ck	0	w.	.....	0.03	0.8	clear	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.09	764.3	30.20	767.1	55.8	13.2	70	ese.	.....	.....	.....	.....	9 kn	.....	.....	0	0	.....	B.J.Elin.
Bilbao, Met. Obs'y	30.02	762.6	30.08	764.1	60.8	10.0	59	s.	5.6	2.5	.....	2	5	s.	.....	0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.13	689.2	30.21	767.2	40.6	4.8	84	n.	6.9	3.1	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.88	708.1	30.14	765.5	52.0	11.1	62	ne.	11.6	5.2	.....	.....	9	.....	.....	0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.99	761.7	30.09	764.2	56.8	13.8	84	ene.	2.5	1.1	.....	2	7	wsw.	.....	0	0	foggy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.09	738.8	29.99	761.7	54.0	12.2	74	se.	3.8	1.7	.....	.....	10	.....	.....	0.228	5.8	sprinkling	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.05	763 3	30.12	765.0	66.3	19.1	88	e.	0.9	0.4	.....	0	k;s	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.94	760.4	29.99	761.8	77.2	25.1	79	n.	15.4	6.9	.....	0	1 ks	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	762.1	30.10	764.0	53.1	11.7	90	wsw.	5.8	2.6	.....	.....	10	.....	sw.	0.998	24.3	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.93	760.2	30.02	762.5	72.3	22.4	80	ne.	7.2	3.2	.....	3 s	2 kn	.....	ne.	0.126	3.2	cloudy	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.40	746.7	29.44	747.7	17.1	— 8.3	97	s.	.....	.....	2	.....	7	.....	.....	0	0	.....	
Umea	29.33	745.0	29.38	746.3	31.3	— 0.4	96	sw.	.....	.....	4	.....	10	.....	.....	0.059	1.5	.....	
Hernosand	29.25	742 9	29.30	744.2	33.1	0.6	92	sw.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Stockholm	29.45	747 9	29.02	752.4	38.1	3.4	100	sw.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Wisby	29.76	755.8	29.82	757.3	42.8	0.0	88	wsw.	.....	.....	6	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.47	748.5	29.56	750.7	38.3	3.5	92	sw.	21.5	9.6	.....	.....	10	.....	sw.	0.020	0.5	.....	H.H.Hildebrandesson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.34	770.6	47.3	8.5	55	ene.	0	0	.....	.....	2	.....	n.	0	0	foggy	The Observatory.
Valona	.....	.....	30.35	770.8	61.3	16.3	.....	ne.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.92	759.9	57.2	14.0	57	nw.	.....	.....	1	cs	9 n	sw.	se.	0.068	1.7	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.02	762.5	30.10	764.5	38	3.3	84	n	3	1.3	.....	.....	10n;fg	.....	.....	0.23	5.8	light rain	J. O. Barnes.
Alpena, Michigan	29.66	753.4	30.36	771.1	5.2	—14.9	76	nw.	6	2.7	.....	0	0	.....	.....	0.15	3.8	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.78	629.4	29.88	758.9	33.5	0.8	92	sw.	2	0.9	.....	.....	10 n	.....	sw.	0.84	21.3	light snow	J. B. Turton.
Assiniaboine, Ft., Montana	27.37	695 2	30.41	772.4	—23.2	—30.7	100	s	3	1.3	.....	0	0	.....	.....	0	0	clear	F. Newman.
Atlanta, Georgia	28.92	734.6	30.14	765.5	62.0	10.7	93	sw.	7	3.1	.....	.....	10s;fg	.....	sw.	0.28	7.1	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.01	762 2	30.02	762.5	45.0	7.2	93	s.	5	2.2	.....	.....	10 s	.....	.....	0.40	10.2	cloudy	B.A.Blundon.
Augusta, Georgia	29.97	761.2	30.17	766.3	62.5	16.9	88	s.	3	1.3	.....	10 ck	hz.	sw.	.....	0	0	cloudy	W.J.Evans.
Baltimore, Maryland	30.02	762 5	30.06	763.5	54	12.2	86	n.	5	2.2	.....	.....	10 n	.....	s.	0.04	1.0	light rain	Geo. W Fisher.
Barnegat City, New Jersey	30.02	762 5	30.04	763.0	45.0	7.2	93	s.	3	1.3	.....	.....	10n;fg	.....	.....	0.01	0.3	light rain	F.L.Johnson.
Bennett, Fort, Dakota	28.73	729 7	30.46	773.7	— 8.0	—22.2	100	calm	0	0	.....	.....	10 n	.....	.....	0.06	1.5	light snow	A. Pritchard.
Benton, Fort, Montana	27.18	690.4	30.18	766.0	—19.0	—28.3	35	w.	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.47	723 1	30.45	773.4	—25.4	—31.9	100	calm	0	0	.....	0	0	.....	.....	0.04	1.0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.06	763.5	30.09	764 3	44.0	0.7	100	w.	4	1.8	.....	.....	10n;fg	.....	w.	0.20	5.1	light rain	J. T. Elker.
Boise City, Idaho	26.85	682 0	29.81	757.2	15.0	— 9.4	74	sw.	1	0.4	.....	3 cs	0	.....	.....	inap.	inap.	clear	James Kenealy.
Boston, Massachusetts	29.88	758.9	30.04	763.0	42.0	5.0	92	e.	1	0.4	.....	.....	10n;fg	.....	.....	0.16	4.1	light rain	O. B. Cole.
Brownsville, Texas	29.80	756.9	29.86	758.4	68.8	20.4	90	se	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	John McGlone.
Buffalo, New York	29.46	748.3	30.24	768.1	29	— 1.7	95	nw.	10	4.5	.....	.....	10 n	.....	.....	0.35	8.9	light snow	Wm. Finn.
Buford, Fort, Dakota	28.16	715.3	30.36	771 1	—28.9	—33.8	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Cairo, Illinois	29.74	755.4	30.16	766.1	34.5	1.4	98	n.	16	7.2	.....	.....	10 n	.....	n.	0.82	20.8	light rain	W. H. Ray.
Canby, Fort, Washington Ter	29.79	756.7	29.99	761 7	27.0	— 2.8	85	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	J.H.Young.
Cape Henry, Virginia	30.12	765.0	30.14	765.5	03.5	17.5	100	s.	12	5.4	.....	.....	10 n	.....	.....	0.18	4.6	light rain	A. K. Alderson.
Cape May, New Jersey	30.01	762 2	30.04	763.0	45.5	7.5	96	s.	14	6.3	.....	.....	10s;fg	.....	.....	0.04	1.0	cloudy	W.E.Smith.
Cape Mendocino, California	28.99	736.3	29.69	754.1	31.5	— 0.3	81	n.	.....	.....	1	0	0	.....	.....	0.09	2.3	clear	A. P. Leavitt.
Cedar Keys, Florida	30.18	766.6	30.20	767.1	05.0	18.3	97	e.	12	5.4	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.11	764.8	30.17	766.3	62.5	16.9	93	sw.	7	3.1	.....	3 ck	6 s	.....	sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.24	742.7	30.13	765.3	60.1	15.6	93	sw.	5	2.2	.....	.....	10 s	.....	sw.	0.04	1.0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.18	741.2	30.04	763.0	63.0	17.2	100	s.	5	2.2	.....	.....	10 n	.....	sw.	1.84	46.7	heavy rain	B. L. Goulding.
Cheyenne, Wyoming	23.66	601.0	29.93	760.2	0.5	—17.5	100	s.	20	8.9	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	E. McGovern.
Chicago, Illinois	29.52	749.8	30.27	768.8	28.7	— 1.8	76	ne.	14	6.3	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	50.0	10.0	100	s.	13	5.8	.....	.....	10 ;fg	.....	w.	0.06	1.5	light rain	C. F. Dickens
Cincinnati, Ohio	29.47	748.5	30.16	766.1	40.0	4.4	87	n.	9	4.0	.....	.....	10 n	.....	n.	1.33	33.8	light rain	L. Dunne.
Cleveland, Ohio	29.44	747.8	30.23	767.8	29.0	— 1.7	88	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.24	6.1	cloudy	W. Line.
Columbus, Ohio	29.25	742.9	30.15	765.8	36	2.2	84	nw.	8	3.6	.....	.....	10 s	.....	n.	0.56	14.2	cloudy	F.T. Williams
Concho, Fort, Texas	28.15	715.0	30.17	766.3	34.0	1.1	100	ne.	8	3.6	.....	.....	10 n	.....	.....	0.09	2.3	light rain	C. E. King.
Custer, Fort, Montana	26.79	680.5	30.15	765.8	—19	—28.3	100	sw.	1	0.4	.....	.....	10 n	.....	.....	0.01	0.3	light snow	W.J.Daily.
Davenport, Iowa	29.55	750.6	30.25	768.3	27	— 2.8	84	e.	9	4.0	.....	.....	10 n	.....	ne.	inap.	inap.	light snow	R. R. Martin.
Davis, Fort, Texas	25.09	637.3	30.05	763.3	39.6	4.2	78	s.	3	1.3	.....	0	6 s	.....	s.	0	0	fair	J. Williams.
Dayton, Washington Ty	28.19	716.0	30.01	762.2	7	—13.9	89	e.	4	1.8	.....	0	2 ks	.....	.....	0	0	clear	H.S.Blandford.
Deadwood, Dakota	25.20	640.1	30.12	765.0	— 4.0	—20.0	100	sw.	1	0.4	.....	.....	10 n	.....	.....	inap.	inap.	light snow	G.Kingsbury.
Delaware Breakwater, Del	30.01	762.2	30.03	762.7	55.8	13.2	100	sw.	20	8.9	.....	.....	10s;fg	.....	sw.	0.01	0.3	cloudy	G.A.Martin.
Denver, Colorado	24.44	620.8	29.90	761.0	3.6	—15.8	66	calm	0	0	.....	0	0	.....	.....	0.13	3.3	clear	F. M. Neal.
Des Moines, Iowa	29.33	745.0	30.30	769.6	0.7	—14.1	61	ne.	7	3.1	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.51	749.5	30.26	768.0	27.0	— 2.8	77	n.	9	4.0	.....	.....	10 s	.....	n.	0.28	7.1	cloudy	N.B.Conger.
Dodge City, Kansas	27.46	697.5	30.20	767.1	5	—15.0	91	n.	12	5.4	.....	.....	10 n	.....	n.	0.12	3.0	light snow	J.E.Lanouette.
Dubuque, Iowa	29.55	750 6	30.31	769.9	20.3	— 6.5	73	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.66	753.4	30.47	773.9	— 5.5	—20.8	84	nw.	7	3.1	.....	0	0	.....	.....	0.08	2.0	clear	E.R.Brace.
Eastport, Maine	30.01	762.2	30.08	764.0	28.5	— 1.9	88	calm	0	0	.....	.....	10 s	.....	.....	0.73	18.5	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.25	692 1	30.15	765.8	19.0	— 7.2	94	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.14	663.9	30.02	762.5	46.1	7.8	63	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.46	748.3	30.24	768.1	33.0	0.6	88	n.	2	0.9	.....	.....	10 n	.....	.....	0.26	6.6	light snow	C. A. Shaw.
Escanaba, Michigan	29.73	735.1	30.45	773.4	0.0	—17.8	79	nw.	7	3.1	.....	2 ck	0	w.	.....	0.05	1.3	clear	L.M.Pindell.
Fort Smith, Arkansas	29.59	751.6	30.09	764.3	35.0	1.7	89	n.	2	0.9	.....	.....	10 s	.....	.....	0.16	4.1	cloudy	J. B. Campbell.
Galveston, Texas	29.90	759 4	29.94	760.5	05.8	18.8	99	s.	5	2.2	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	E. O'O. Macinerney
Grand Haven, Michigan	29.60	751.8	30.31	769.9	18.0	— 7.8	74	n.	9	4.0	.....	2 c	0	.....	.....	0.02	0.5	clear	Joseph E. Muelle
Grant, Fort, Arizona	25.04	636.0	29.90	759.4	37.6	3.1	76	se.	5	2.2	.....	0	8 ks	.....	sw.	0.45	11.4	cloudy	Chas. A. Read.
Hatteras, North Carolina	30.17	766.3	30.18	766.6	64.2	17.9	93	sw.	9	4.0	.....	3 c	3 k	s.	w.	0	0	fair	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.68	652.3	30.03	762.7	−12	−24.4	74	nw.	4	1.8		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	28.94	735.1	30.46	773.7	−10.6	−23.7	72	n.	6	2.7			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.32	744.7	30.17	766.3	34.0	1.1	79	ne.	6	2.7			10 s		ne.	0.13	3.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.88	758.9	29.91	759.7	66.0	18.9	100	s.	7	3.1		0	4 s			inap.	inap.	fair	I. A. Reed.
Jacksonville Florida	30.14	765.5	30.19	766.8	64.5	18.1	92	sw.	6	2.7		2 cs	fg.			inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	29.52	749.8	30.22	767.6	24.0	− 4.4	84	calm	0	0			10 s			inap.	inap.	cloudy	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	72	22.2	82	e.	6	2.7		0	3 k		e.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.15	765.8	30.17	766.3	61.4	16.3	86	sw.	12	5.4		3 ck	5 s	sw.		0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	28.97	735.8	30.05	763.3	62	16.7	96	sw.	10	4.5			10 n		sw.	0.48	12.2	light rain	J. A. Cody.
La Crosse, Wisconsin	29.49	749.0	30.33	770.4	8	−13.3	76	nw.	8	3.6			10 s		nw.	inap.	inap.	cloudy	S. C. Emery.
Leavenworth, Kansas	29.27	743.4	30.22	767.6	17	− 8.3	51	n.	4	1.8			10 s			inap.	inap.	cloudy	T. S. Outram.
Lewiston, Idaho	29.12	739.6	29.99	761.7	9.0	−12.8	55	se.	2	0.9		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.76	755.9	30.09	764.3	41.0	5.0	92	ne.	8	3.6			10 n			2.32	58.9	light rain	W. U. Simons.
Los Angeles, California	29.45	748.0	29.85	758.2	45.0	7.2	96	n.	4	1.8			10 n			0.64	16.3	light rain	T. S. Collins.
Louisville, Kentucky	29.51	749.5	30.10	764.5	39.0	3.9	94	n.	13	5.8			10 n		n.	1.24	31.5	light rain	L. M. Dey.
Lynchburg, Virginia	29.33	745.0	30.05	763.3	61.0	16.1	87	calm	0	0			10 n		w.	0.01	0.3	light rain	Jno. Healy.
Mackinaw City, Michigan	29.71	754.6	30.41	772.4	0.0	−17.8	68	nw.	8	3.6		0	0			0.42	10.7	clear	D. B. Notson.
Macon, Fort, North Carolina	30.18	766.6	30.19	766.8	57.8	14.3	96	sw.	15	6.7		5 cs	3 ks	sw.	sw.	0.01	0.3	cloudy	William Daly.
Maginnis, Fort, Montana	25.29	642.4	30.04	763.0	−15.8	−26.6	49	nw.	3	1.3		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.67	753.6	30.45	773.4	5.3	−14.8	81	nw.	6	2.7			10 n		nw.	0.08	2.0	light snow	J. Gilligan.
Memphis, Tennessee	29.71	754.6	30.06	763.5	39.5	4.2	100	ne.	11	4.9			10 n			2.11	53.6	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.53	750.0	30.33	770.4	17.4	− 8.1	86	n.	13	5.8			10 s			0.01	0.3	cloudy	S. W. Rhode.
Mobile, Alabama	30.01	762.2	30.05	763.3	64.3	17.9	96	s.	5	2.2			fg.			0.01	0.3	dense fog	H. U. Jones.
Montgomery, Alabama	29.84	757.9	30.08	764.0	66.9	19.4	93	s.	8	3.6		5 cs	4k;fg	sw.	sw.	0.11	2.8	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.40	746.7	30.50	774.7	−27	−32.8	100	n.	5	2.2		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.60	599.4	30.22	767.6	26.4	− 3.1	100	w.	60	26.8			fg.		w.	0.91	23.1	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.45	748.0	30.06	763.5	46.3	7.9	90	n.	5	2.2			10 n		n.	2.32	58.9	light rain	L. N. Jesunofsky
New Haven, Connecticut	29.93	760.2	30.05	763.3	42	5.6	100	nw.	4	1.8			10n;fg			0.21	5.3	light rain	J. H. Sherman.
New London, Connecticut	30.05	763.3	30.10	764.5	42.5	5.8	100	w.	1	0.4			10 n		sw.	0.11	2.8	light rain	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.02	762.5	69.0	20.6	92	s.	4	1.8			10s;fg		s.	inap.	inap.	cloudy	M. Herman.
New York, New York	29.89	759.2	30.08	764.0	49.5	9.7	96	calm	0	0			10n;fg			0.09	2.3	light rain	H. J. Peurod.
Norfolk, Virginia	30.06	763.5	30.09	764.3	62.0	16.7	90	s	5	2.2			10 s		s.	0.01	0.3	cloudy	Wm. Davis.
North Platte, Nebraska	27.15	689.6	30.25	768.3	− 4.3	−20.2	88	ne.	7	3.1			10 n		ne.	0.03	0.8	light snow	J. J. Mc Lean.
Olympia, Washington Ter	29.94	760.5	29.98	761.5	22.0	− 5.6	73	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.06	738.1	30.33	770.4	− 4.0	−20.0	68	n.	10	4.5		0	0			0	0	clear	A. Pollak
Oswego, New York	29.86	758.4	30.21	767.3	28.8	− 1.8	81	n.	4	1.8			10 n			0.31	7.9	light snow	J. G. Linsley.
Palestine, Texas	29.42	747.3	30.00	762.0	40.5	4.7	100	ne.	9	4.0			10 n		ne.	0.50	12.7	light rain	P. T. Jenkins.
Pensacola, Florida	30.05	763.3	30.08	764.0	66.3	19.1	97	se.	10	4.5		3 cs	6 s	w.	sw.	0.04	1.0	cloudy	M. McGauran.
Philadelphia, Pa.	29.96	761.0	30.07	763.8	54.3	12.4	93	nw.	5	2.2			10s;fg			inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.15	435.6	29.87	758.7	− 6.0	−21.1	100	s	10	4.5			10 s			0.03	0.8	cloudy	H. Hall.
Pittsburg, Pennsylvania	29.29	744.0	30.15	765.8	39.3	4.1	89	nw.	5	2.2			10 n		nw.	0.70	17.8	light rain	O. D. Stewart.
Poplar River, Montana					−39.7	−39.8	100	e.			1	0	0			inap.	inap.	clear	G. A. Garden.
Port Huron, Michigan	29.53	750.0	30.26	768.6	21.0	− 6.1	84	n.	18	8.0			10 s		n.	0.02	0.5	cloudy	M. H. Perry
Portland, Maine	30.02	762.5	30.07	763.8	37.0	2.8	85	ne.	4	1.8			fg.			0.29	7.4	dense fog	W. W. Eichelberger.
Portland, Oregon	29.87	758.7	29.94	760.5	26.0	− 3.3	88	ne.	4	1.8		0	0			0	0	clear	M. L. Hearn.
Prescott, Arizona	24.45	621.0	29.81	757.2	30.5	− 0.8	80	s.	18	8.0		0	1 s		sw.	1.20	30.5	clear	N. D. Lane.
Provincetown, Mass.	30.03	762.7	30.06	763.5	43.3	6.3	100	nw.	4	1.8			10n;fg			0.42	10.7	light rain	C. N. Kitchel.
Red Bluff, California	29.37	746.0	29.74	755.4	34	1.1	71	n.	8	3.6			10 s		n	0	0	cloudy	J. R. Williams.
Rio Grande City, Texas	29.69	754.1	29.94	760.5	67.0	19.4	84	n.	5	2.2			10 s			0	0	cloudy	L. G. Schultz.
Rochester, N. Y.	29.52	749.8	30.23	767.8	28.5	− 1.9	100	ne.	3	1.3			10n;fg			0.23	5.8	light snow	E. W. McGann.
Roseburg, Oregon	29.29	744.0	29.86	758.4	21	− 6.1	76	nw.	1	0.4		0	0			0	0	clear	J. J. Naury.
Sacramento, California	29.68	753.9	29.75	755.6	33.5	0.8	94	n.	9	4.0		0	7 s			inap.	inap.	fair	J. A. Barwick
St. Louis, Missouri	29.56	750.8	30.22	767.6	29.0	− 1.7	84	n.	12	5.4			10 s			inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.43	772.9	30.46	773.7	16	− 8.9	100	calm	0	0			10 s			0	0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.45	748.0	30.38	771.6	1.7	−16.8	56	n.	2	0.9		1 cs	0			0.06	1.5	clear	P. F. Lyons.
St. Vincent, Minnesota	29.50	749.3	30.47	773.9	−29	−33.9	67	sw.	4	1.8		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.12	638.0	29.68	753.9	25.2	− 3.8	53	calm	0	0		0	8 s			0.22	5.6	cloudy	J. Craig.
San Diego, California	29.81	757.2	29.88	758.9	52.2	11.2	71	sw.	2	0.9			10 k		sw	0.70	17.8	cloudy	F. R. Day.
Sandusky, Ohio	29.53	750.0	30.25	768.3	29	− 1.7	77	ne.	9	4.0			10 ks		ne.	0.25	6.3	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.03	762.7	30.06	763.5	46.1	7.8	100	nw.	2	0.9			10 n			0.02	0.5	light rain	Y. P. Chappel.
Sanford, Florida	30.14	765.5	30.19	766.8	61.0	16.1	93	calm	0	0		0	fg.			0	0	clear	J. B. Marbury
San Francisco, California	29.64	752.8	29.72	754.9	37.5	3.1	91	w.	4	1.8			10 s		nw.	0.16	4.1	cloudy	N. Gorom.
Savannah, Georgia	30.09	764.3	30.18	766.6	62.5	16.9	88	s.	4	1.8		7 c	fg.	w.		c	0	fair	R. M. Geddings.
Shaw, Fort, Montana	26.28	667.5	30.13	765.3	−20	−28.9	100	w.	4	1.8		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.74	755.4	29.92	760.0	50.0	10.0	96	nw.	7	3.1			10 n		nw.	0.64	16.3	light rain	E. N. Meekins.
Sitka, Alaska	30.01	762.2	30.08	764.0	28.5	− 1.9	76	e.	3	1.3		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	30.15	765.8	30.19	766.8	60.2	15.7	95	sw.	4	1.8		3 cs	6 ks		sw.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.83	706.9	29.96	761.0	1.0	−17.2	72	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.49	749.0	30.22	767.6	33.0	0.6	85	n.	7	3.1			10 s		n.	inap	inap.	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.88	682.7	30.00	762.0	45.0	7.2	86	calm	0	0		0	5 s			0.82	20.8	fair	J. W. Byram.
Tatoosh Id., Wash. Ter	29.92	760.0			32.4	0.2	72	e.	14	6.3		0	0			0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.14	689.3	29.97	761.2	36.2	2.3	64	s.			1	0	5 s			0.21	5.3	fair	R. O. Lord.
Toledo, Ohio	29.50	749.3	30.24	768.1	28	− 2.2	82	ne.	12	5.4			10 s		ne.	0.06	1.5	cloudy	A. Buell.
Unalaskha, Alaska	30.17	766.3	30.10	766.8	39	3.9	82	se.	16	7.2			10 n		se.	0.19	4.8	light rain	Samuel Applegate.
Vicksburg, Mississippi	29.71	754.6	29.98	761.5	67	19.4	93	s.	5	2.2			10 n		s.	0.68	17.3	light rain	C. Dill.
Washington, D. C.	29.97	761.2	30.09	764.3	52.5	11.4	92	nw	6	2.7			10 n		nw.	0.02	0.5	light rain	T. B. Harrison.
West Las Animas, Colorado	25.90	657.8	30.02	762.5	1	−17.2	92	e.	10	4.5		0	0			0.11	2.8	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.14	765.5	30.20	767.1	62.0	16.7	93	s.	6	2.7		5cjcs	4 s	s.		inap.	inap.	cloudy	L. H. Albrecht.
Yankton, Dakota	28.92	734.6	30.34	770.6	− 9.8	−23.2	74	nw.	2	0.9			10 s			inap.	inap.	cloudy	E. H. Thompson.
Yuma, Arizona	29.64	752.8	29.79	756.7	43.9	6.6	88	calm	0	0		0	0			0.39	9.9	clear	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.36	745.7	29.38	746.2	30.3	− 0.9	95	n.	30	13.4			10 n			inap.	inap.	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.					78	25.6		ne.			3	0	9 n		ne.	0.12	3.0	cloudy	W. H. Jackson.
Bogota, U. S. C.	21.95	557.5			53.6	12.0	75	s.	2	1			9 pk		s.	0	0	covered	Joaquin Gomez.
Chimo, Fort, Ungava	29.82	757.4	29.99	761.8	−28	−33.3	100	s.	9	4.0			10 s		s.	0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.			30.05	763.3	65.0	18.3	87	n.	3	1.3		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	76	24.4	83	ne.			2	4 c	5 k	e.	e.	0.050	1.3		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.36	745.7	29.92	760.0	78	25.6	89	s.			1		10			0.95	24.1	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					73	22.8	90	ne.			1	5 cs	4 ks	se.	ne.	0	0		Earl Flint.
York Factory, B. A.	30.03	762.7	30.10	764.5	−32.0	−35.6		sw.	16	7.2		0	1 s		sw.	0.01	0.3		Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.85	758.3	29.87	758.6	77.7	25.4	88	n.	13.0	5.8		0	4 k		n.	0	0	fair	P. Fasiani.
Nuós, Bay of Panama	29.83	757.7	29.90	759.4	73.4	23.0	86	nw.			4	0	2 k		nw.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic																		
S. S. Alvo, Port au Prince, Hayti, W.I	30.14	765.5	74	23.3		nne.			3-4		4		ne.	0	0			fine.
S. S. Alleghany off Cape Cod, Mass†	30.14	765.5	50	10.0		s			2		10			rain	rain			
S. S. Ailsa, St. Mar , Hayti, W. I			68.5	20.3	80	nne.			1		0			0	0			clear.
Schr. Arthur Burton, Tybee Roads, Ga †	30.17	766.3				calm			0		0			0	0	sm'h		smoky
S. S. Alps, Arroyo, Porto Rico. W. I.			80	26.7		ne.			1		2		ne.	0	0	short		clear
Schr. Annie R Lewis, Cienfuegos, Cuba, W. I†	30.06	763.5	66	18.9		n.			2		0			0	0			clear.
S. S. Anchoria, N. 45° 46′, W. 42° 49′						wsw.			5		10		wsw.			sl't	wsw.	raining.
S. S. Caracas, La Guayra, Venezuela *†	30.00	762.0	76	24.4	86	ne.			2		3		ene.	14 h'r	14 h'r	mod.	ne.	hazy
S. S. Canada, (Fr) N. 45° 15′, W. 37° 38′			53.6	12		wsw.			5		s.		wsw.	0	0	large	wsw.	overcast.
S. S. Chalmette, Mississippi river *†	29.94	760.5	67	19.4		ssw.			3				ssw.	0	0			foggy.
S. S. Devonia, N 52° 48′, W. 28° 36′†	29.78	756.4	44	6.7		ssw.			6		10		ssw.	3 h'r	3 h'r	h'vy	sw.	cloudy.
S. E. J. Spicer, N 40° 56′, W. 33° 30	30.48	774.2	54	12.2	87	w.			3		10		n.	0	0	mod.	nne.	cloudy.
S. S. England, off Fire Id, N. Y	30.13	765.3				var.					fg.					sm'h		dense fog.
S. S. Grecian, Glasgow, Scotland	30.13	765 3	41	5.0	82	wnw.			2		2		wnw.	1 h'r	1 h'r			clear.
Bg. George. N. 40° 50′. W. 72° 25′ *†	30.10	764.5				calm			0		10			1 h'r	1 h'r	mod.	ssw.	foggy.
S. S. Hermann, N 43° 36′, W. 57° 05′	30.17	766.3	53.6	12.0	88	wsw.			5		9		s.	0	0	mod	sw.	cloudy.
S. S. Iowa, N. 49° 00′, W 31° 22′			50	10.0		wsw.			6		10			10 h'r	10 h'r	r'gh	wsw.	drizzling.
Bg. L. & W. Armstrong, N. 29° 26′, W 72° 27′*†	30.32	770 1				ene.			3		3		ne	0	0	long	ne.	fine.
S. S. Lone Star, N. 30° 44′, W. 79° 22′*†	30.24	768.0	73	22.8		sse.			2		5		sse.	0	0	mod.	se.	fair.
S. S. Marengo, N. 50° 07′. W. 30° 05′*†	29.79	756.7	50	10.0		ssw.			7		10		sw.	2 h'r	2 h'r	con.	var.	raining.
S. S. Neckar, N. 45° 29′, W. 41° 40′	30.08	764.0	41.0	5 0	91	nw.			5		7		nw.	0	0	long	w.	cloudy.
S. S. Orinoco, Sandy Hook, N. J			50	10.0		ne.			1		fg		ne.	5 h'r	5 h'r			dense fog.
S. S. Oregon, (Br) N. 47° 58′, W. 38° 52′ *	29.96	761.0	54	12.2		wsw.			6		10		wsw.	20 h'r	20 h'r	long	wsw.	cloudy.
S. S. Ohio, (Am.) N. 50° 22′, W. 23° 45′			35?	1.7?	90	sw.			3		9		sw.	0	0	mod	var.	cloudy.
S. S. Pennsylvania, Liverpool, Eng			42	5.6	100	ese.			2		8		se.	1 h'r	1 h'r			cloudy.
S. S. Polynesian, N. 49° 23′, W. 33° 48′	29.93	760.2	55	12.8		wsw.			4		9		w.	0	0	mod.	sw.	cloudy
S. S. Rhein, N. 50° 08′. W. 16° 35′						ne.			4		4		ne.	0	0	mod.	ne.	hazy.
S. S. Rhynland, Antwerp, Belgium	30.18	766.6	48	8.9	85	se.			3		5		se.	0	0			fair.
S. S. Republic, N. 44° 01′, W. 55° 08′*†	30.02	762.5	46	7.8		sw.			5		9		w			mod.	wsw.	misty.
S. S. Switzerland, N. 49° 12′ W. 26° 34′ *†	30.09	764.3				s.			5		10		s.	4 h'r	4 h'r	r'gh	sw.	cloudy.
S. S. Samaria, N. 45° 20′, W. 44° 15′	29.98	761.5	53	11.7		wsw.			6		10		wsw.	9 h'r	9 h'r	h'vy	wsw.	rainy.
S. S. Scythia, N. 48° 56′, W. 33° 55′	29.87	758.7	57	13.9		wsw.			6		8		wsw.	5 h'r	5 h'r	h'vy	wsw.	hazy.
S Salisbury, N. 21° 05′, W. 67° 00′	29.99	761 8	73.4	23.0	90	nne.			6		6kn		ne.	1 h'r	1 h'r	r'gh	ne.	fair.
Bk. Tuck Sing, N. 32° 56′, W. 76° 49′*†	30.21	767.3				ssw.			3		2		w.	0	0	long	se.	clear.
S. S. Belgenland, N. 45° 37′, W. 41° 56′			45	7.2	84	w.			6				wsw.	rain	rain	mod.	wnw.	overcast.
S. S. State of Georgia, N. 51° 32′, W. 31° 39′†	29.78	756.4	50	10.0		wsw.			3		10			8 h'r	8 h'r	sharp	sw.	overcast.
Schr. Adda Doane, Kingston, Jamaica, W I†	30.01	762.2				nne.			1		2		ne.	0	0			clear.
Bg. Alcira Maracaybo, Venezuela*	29.99	761.7	79	26.1		nne.			1		6		ne.	0	0			fair.
Bk. Chas. Stewart, N. 36° 17′, W. 8° 54′*†	30.08	764.0				sw.			4		8		s.	0	0	mod.	e.	fair
Bk. Cato, N. 40° 10′, W. 54° 50′†	30.43	772.9	65	18.3	84	sw.			5		4?		sw.	0	0	long	sw.	cloudy.?
S. S. D. J. Foley, N. 35° 23′, W. 73° 45′*†	30.20	767.1	72	22.2	80	sw.			6		9		sw.	0	0	r'gh	sw.	cloudy.
S. S. Labrador, N 50° 20′, W. 23° 07′ *†	30.08	764.0	42.8	6		wsw.			3		5		sw.	0	0	r'gh	sw.	fair.
S. S. Habsburg, N. 45° 15′. W. 46° 39′						wsw.			6		10		wsw.	16 h'r	16 h'r	cross	wsw.	drizzling.
S. S. Pavonia, N. 40° 13′, W. 69° 36′	30.13	765.3	52	11.1	93	s.			4		9		ssw.	0	0	sl't	s.	misty.
S. Parker M. Whitmore, N. 39° 31′, W. 35° 21′*†	30.48	774.2	58	14.4		nw.			1		2		nw.	0	0	long	nw.	clear.
S. S. Rialto, N. 53° 00, E. 1° 26′ †	30.10	764.5	40	4.4		wnw.			3		8		nw.	0	0	sm'h	nw.	cloudy.
S. S. Vaderland, English Channel	30.12	765.0	48	8.9		calm			0		6		w.	0	0	sm'h		fair.
S. S. Virginian, N. 42° 22′, W. 68° 00′			32?	0.0?		ese.			4				sse.	3 h'r	3 h'r	mod	ese.	clear
S. S. Wyoming, Sandy Hook, N.J	30.08	764.0	40?	4.4?		nw.			1		fg			0	0	sm'h		dense fog.
S. S. Wieland, N. 50° 00′, W. 10° 52′			54	12.2		w.			1-2		10		w.	2 h'r	2 h'r	short	w.	raining.
S. S. W. A Scholten, N. 49° 01′, W. 31° 10′			51.8	11.0	81	n.			6		10		w.	12 h'r	12 h'r	8	wsw.	squally.
S. S. Westphalia, N. 49° 15′, W. 25° 46′	30.04	763.0	47	8.3		wsw.			6		10			12 h'r	12 h'r	h'vy	sw.	overcast.
S. S. St. Laurent, N. 40° 35′. W. 71° 00′	30.03	762.8	44.6	7.		calm			0							sm'h		misty.
S. S. Nurnberg, N. 40° 39′ W. 53° 44′			62.6	17.0		ssw.			6		8		ssw.	0	0	r'gh	ssw.	cloudy.
U. S. Navy Yard, Portsmouth. N. H.*	30.01	762.2	35	1.7	90	s.	4	1.8			10		sw.	0.15	3.8			raining.
U. S. S. Alliance, Turk's Id, Bahamas, W. I	30.06	763.5	74	23.3	76	ne.			3		5?		ne.	0	0	sm'h		cloudy ?
U. S. S. Kearsarge, Naples, Italy	30.34	770.6	57	13.9	75	ssw.			1		5		w.					fair.
U. S. S. Lancaster, Naples, Italy	30.34	770.6	56	13.3	94	se.			1-2		2			0	0	sm'h		fair.
U. S. S New Hampshire, Newport. R. I	30.00	762 0	41	5.0	100	sw.			2		10					sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.26	768.6	53	11.7	80	ne.			1		10					sm'h		cloudy.
U. S. S. Swatara, N. 17° 50′, W. 76° 19′	30.02	762.5	76	24.4	77	ene.			1		0			0	0	sm'h		clear.
U. S. S. Tennessee, mouth of Mississippi river	30.04	763.0	64	17.8	94	se.	11	4.9			5		se.	0.01	0.3			foggy.
U. S. S. Trenton, Naples, Italy	30.34	770.6	58	14.4	64	s.			1		2		s.					fair.
U. S. S. Vandalia, Curacoa, W. I	29.94	760.5	76	24.4	77	ene.			2		2		e.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.39	771.9	58	14.4	76	wsw.			1		4	wsw.						d. clouds.
H. M. S. Alecto, N. 13° 35′, W. 16° 51′	29.95	760.7	67	19.4		n.			2		8	nw.				4	wnw.	d. clouds.
H. M. S. Boadicea, N 10° 39′, W. 17° 48′			75	23.9	81	nne.			4		9					4	nne.	overcast.
H. M. Dockyard, Bermuda, Atlantic	30.27	768.8	65	18.3	73	ene.			3		4	e.						d. clouds.
H. M. S. Himalaya, N 36° 07′, W. 5° 21′	30.14	765.5	69	20.6	39	nne.			1		4	ene.						d. clouds.
H. M. S Monarch, Syracuse, Sicily	30.32	770.1	67	19.4	50	ene.			1		0							blue sky
H. M. S. Minotaur, Cagliari, Sardinia	30.28	769.1	56	13.3	84	se.			1		3	wsw.						d. clouds.
S. S. Lord Olive, N. 42° 59′. W. 53° 33′						ssw.			4		6		wsw.	2 h'r	2 h'r	mod.	wsw.	fine.
S. S. Prussian, N 42° 30′, W. 68° 30′	30.10	764.5	42	5.6		nne.			3		10			10 h'r	10 h'r		sse.	drizzling.
S. S. Dorian, N. 44° 49′, W. 49° 04′	30.13	765.3	43	6.1		wsw.			6		10		w.	5 h'r	5 h'r	long	wsw.	overcast.
S. S. Carroll, N. 42° 40′, W. 68° 50′*†	30.10	764.5	43	6.1		wnw.			1		10		wnw.	hv'y	hv'y	long	s;sw.	raining.
S S. Llandaff City, N. 42° 39′, W. 53° 30′*†	30.21	767.3	48	8.9		sw.			6		8		wsw.	0	0	mod.	sw.	hazy.
S. S. Bothnia, N. 50° 22′, W. 18° 06′	30.22	767.6	56	13.3	81	ne.			2		5		ne.	0	0	long	nw.	fair.
S. S. Hevelius, N. 34° 07′. W. 15° 45′			58	14.4		nne.			4		3		wnw.	0	0			clear.
S. S. Rosse, N. 38° 32′. W. 9° 28′			59	15.0	82	ese.			4		9		e.	4 h'r	4 h'r	mod.	sse.	overcast.
S. S. Archimede, (It) Messina, Sicily			68?	20.0?		ne.			2		2		ne.	0	0			clear.
S. S. Picqua, New York, N. Y *†	30.08	764.0	40	4.4	91	ene.			1		fg.			0	0			foggy.
S. S. Dominion, N 48° 00′, W. 40° 13′			51	10.6	100	wsw.			4		10		wsw.			mod	sw.	cloudy.
S. S. Denmark, N. 40° 24′, W. 70° 46′			47	8.3	85	ssw.			4		fg			5 h'r	5 h'r			foggy.
S. S. Erin, N. 49° 04′, W. 24° 51′			44	6.7		sw.			5		10		wsw.	2 h'r	2 h'r	sl't	wsw.	cloudy.
S. S. City of Augusta, Savannah, Ga *†	30.20	767.1				calm			0		2			0	0			foggy.
S S. Waesland, off East Goodwin, Eng	30.07	763.8	43	6.1		ese.			4		3		ese.	0	0	sm'h		hazy.
S. S. Westernland, N. 40° 46′, W. 71° 10′	30.06	763.5	51	10.6	100	sw.			4		10			24 h'r	24 h'r	mod.	sw.	foggy.
S. S. Zaandam, N. 40° 37′, W. 71° 01′			50.4	10.2	85	sw.			3		10			3 h'r	3 h'r	mod.	sw.	dense fog.
S. S. State of Nebraska, N. 42° 41′, W. 53° 27′ *†	30.26	768.6	47	8.3		s.			4		5		w.			sm'h		d. clouds.
S. S. State of Nevada, N. 52° 35′ W. 28° 21′ *†	29.79	756.7	46	7.8		sw.			5		hz.		sw.	7 h'r	7 h'r	high	nw.	hazy.
S. S. Saxon, Philadelphia, Pa *†	30.11	764.8	48	8.9		calm			0		10			rain	rain			rain & fog.
L. S. Celtic, Liverpool, Eng*†	30.05	763.3	54?	12.2?		wnw.			4		10		w.	10 h'r	10 h'r			heavy rain.
S. S. Lepanto, N. 32° 11′, E. 36° 02′	30.06	763.5	54	12.2		nne.			6		8		n.	10 h'r	10 h'r	r'gh	n.	rain squalls.
S. S. Romano, N 42° 36′, W. 33° 00′			63	17.2		sw.			4		9		w.	6 h'r	6 h'r	mod	sw.	hazy.
S. S. Salerno, N. 42° 32′, W. 61° 46′ †	30.20	767.1	50	10.0		sw.			3		10		sw.	0.5	13.	r'gh	wsw.	raining.
S. S. Antonio Lopez, Cadiz, Spain	30.04	763.0				wsw.			1	10 c				4 h'r	4 h'r			light rain.
Bgt. Achsah, N. 41° 34′, W. 65° 31′ †	30.08	764 0	51	10.6		sw.			2		10		sw.	0	0	mod	wsw.	dense fog.
S. Armenia, N. 49° 25′, W. 4° 43′			58	14.4	82	calm			0		3			0	0	sm'h	w.	hazy.
Bk. Adelaide, N. 29° 44′, W. 38° 19′ *†	30.45	773.4	70	21.1		ne.			3		4		ne.	2 h'r	2 h'r	mod.	n.	hazy.
Bk. Benjamin Dickerman, N. 28° 40′, W. 78° 15′*†	30.21	767.3	72	22.2		ese.			4		3		ese.	0	0	long	ese.	fair.
Bk. Bayonnaise, N. 36° 17′ W. 10° 07′			59.0	15.		s.			3		6		sse.	0	0	sm'h	s.	fair.
Bk. Celestina, N. 0° 07′, W. 24° 47′ *†	29.96	761.0				ese.			1		7		se;n.	3 h'r	4 h'r	light	se.	
S. Dora, N. 57° 08′, W. 26° 27′ †	29.32	744.7	42.8	6.0		wsw.			7		9		w.	4 h'r	4 h'r	long	w.	cloudy.
S. David Stewart, N. 5° 10′, W. 46° 20′			82	27.8		e.			6		10			12 h'r	12 h'r	mod	ene.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Edith R. Seward, N. 34° 20′, W. 66° 20′†	30.34	770.6	68	20.0		sse.			1		3		calm	0	0	sm'h	ese.	clear.
Bk. Fred W. Carlon, Progreso Roads, C. A.	30.01	762.2	80	26.7		e.			5				e.	0	0	sm'h	e.	clear.
Bk. Gloire, N. 20° 05′, W. 49° 20′ *	30.08	764.0	72	22.2		e.			4		8		e.	rain	rain	long	ne.	cloudy.
Bk. George Davis, N. 33° 25′, W. 69° 29′ *†	30.27	768.8				sse.			1				sse.	0	0	mod.	e.	fair.
S. Hedwig, N. 41° 02′, E. 18° 39′	30.33	770.3	57.2	14.0	83	wnw.			1		1		ssw.	0	0	sm'h		clear.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.07	763.8	63	17.2		s.			2		6		se.	0	0			
S. Henry, N. 38° 54′, E. 7° 22 *	30.26	768.6	55.9	13.3		ese.			4–5	5 c	0					4	var.	hazy.
Schr. John L. Thomas, South Hobbies Cays, C. A †	29.94	760.5	75	23.9	77	e.			2		2		e.	0	0			clear.
Bg. John Welsh, jr, Mobile Bay, Ala †	30.01	762.2				s.			2		8		s.					fair.
Bg. Lillian, N. 19° 05′, W. 59° 20′†	30.03	762.7	76	24.4		se			1		4			0	0	mod.	var.	clear.
S. S. Laurel, Key West, Fla †	30.12	765.0	72	22.2		ese.			2		7		ese.	sh'rs	sh'rs			fair.
Bg. L. F. Munson, N 38° 13′, W. 58° 14′ *†	30.54	775.7	66	18.9		wsw.			5		8		wnw.	0	0	long	nw.	fair.
S. S. Madrid, Shields, Eng†	30.07	763.8	46	7.8	86	n.			2		4		n.	2 h'r	2 h'r			fair.
Schr. Minnie A. Bonsall, Jacksonville, Fla*†	30.18	766.6	70?	21.1?		se.			1				e.	0	0			clear.
Schr. Norena, Fajardo, Porto Rico, W. I.						w.			2		1		ene.	1 h'r	1 h'r			
S. S. Radnorshire, N. 33° 36′, E. 26° 13′ *†	30.16	766.1				nne.			6		2		nne.	0	0	mod.	nne.	clear.
S. Stephen D. Horton, N. 49° 45′, W. 10° 18′†	30.08	764.0				e.			2		10		nne.	2 h'r	2 h'r	long	nnw.	cloudy.
Bk. Silica, N. 39° 14′, W. 37° 15						calm			0		0			0	0	long	ne.	clear.
Bg. Teneriffe, N. 25° 15′, W. 79° 17′	30.14	765.5				ese.			5		3		e.	0	0	2		fine.
S. S. City of Alexandria, N. 22° 09′, W. 87° 03′ *†	29.97	761.2	76	24.4		e.			5							mod.	e.	d. clouds.
S. S. Maasdam, N. 49° 20′, W. 21° 45′*	30.19	766.8	50.0	10		var.			3							high	w.	fair.
S. S. Schiedam, N. 40° 35′, W. 68° 20′ *	30.04	763.0	43?	6.1?		sw.			5–6							sm'h		dense fog.
S. S. Strathleven, N. 40° 03′, W. 53° 10′*	30.37	771.4	65.2	18.4	78	sw.			4		9		w.			3	sw.	cloudy.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	30.00	762.0	62	16.7	66	sw.			3		2		sw.					clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.90	759.4	63.5	17.5	62	ssw.			5		5	s.				4	ssw.	squally.
H. M. S. Opal, Simons Bay, Cape Colony	30.05	763.3	67	19.4	74	se.			7		3	se.						squally.
H. P. M. S. Bengo, S. 6° 39′, E. 9° 51′	29.91	759.7	84.2	29.0	92	wsw.			2		0			12 mi	nutes	1		blue sky.
S. S. George S. Homer, S. 50° 4′, W. 45° 37′*†	29.25	742.9				s.			5		9		s.	4 h'r	4 h'r	r'gh	s.	raining.
Bk Godeffroy, S. 17° 48′, W. 29° 41′	30.02	762.5	82.2	27.9	71	e.			3		3 k		e.	0	0	mod.	e.	clear.
S. Grecian, S 54° 36′, W. 60° 50′†	29.68	753.9	43	6.1	84	s.			6		5	sse.	s.	rain	rain	cross	var.	squally.
S. Henry Failing S. 50° 40′, W. 51° 18′*†	29.38	746.2	47	8.3	85	ssw.			6		8		ssw.	4 h'r	4 h'r	long	ssw.	cloudy.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.00	762.0	82	27.8		nw.			2		2		wnw.	0	0			clear.
Bkt. Levanter, Montevideo, Uruguay*	30.00	762.0	64	17.8		s.			4		2		s.	0	0	mod.	ssw.	clear.
S. St. David, S. 9° 24′, W. 28° 04′*†	30.05	763.3	81	27.2	83	e.			4		2		e.	0	0	mod.	e.	fine.
Bk. Winifred, S. 21° 15′, W. 36 58′ *†	30.00	762.0												0	0		ne.	
S. Orealia, S. 24° 21′, W. 27° 48′*.	29.98	761.5				s. to e.			1		2		ne	0	0	long	sw.	clear.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 22° 00′, E. 144° 12′	30.08	764.0	76	24.4	91	ssw.			4		5?					sm'h		clear.?
U. S. S. Essex, Canton, China	30.26	768.6	50	10.0	72	n.			1		2							clear.
U. S. S. Hartford, N. 4° 15′, W. 117° 19′	29.80	756.9	78	25.6	95	ne.			3		2?		ne.	light	light	sm'h	n.;e.	cloudy.?
U. S. S. Juniata, Shanghai, China	30.50	774.7	30	— 1.1	78	nw.			3		0?			0	0			clear.?
U. S. S. Monocacy, Shanghai, China	30.50	774.7	29	— 1.7	66	sse.			2		10?		sse.					cloudy.?
U. S. S. Palos, Tientsin, China	30.44	773.2	22	— 5.6		w.			1		0							clear.
U. S. S. Ranger, Corinto, Nicaragua	29.90	759.4	75	23.9	72	ese.			1		2			0	0	sm'h		fair.
H.M.S. Audacious, Victoria harbor, Hong Kong, China	30.21	767.3	53	11.7	61	n.			1		0							blue sky.
H. M. S. Cleopatria, 24° 26′, E. 118° 05′	30.23	767.8	53	11.7	73	ne.			3		0					2		blue sky.
H. M. S. Champion, Shanghai, China			27	— 2.8		nw.			3		10?							blue sky.?
H. M. S. Magpie, N. 5° 25′, E. 100° 20′	29.88	758.9	83.7	28.7	64	nw.			2		8							d. clouds.
H. P. M. S. Tamega, Macao, China	30.29	769.4	50.9	10.5	86	nnw.			3		0			0	0			blue sky.
S. S. Oceanic, N. 40° 45′, E. 161° 40′	30.14	765.3	40	4.4	64	n.			5		7		ne.	hail	hail	5	nne.	fair.
S. S. Oregon, N. 43° 48′, W. 124° 30′†	29.94	760.5	33.5	0.8	65	ne.			3		0					mod.	nnw.	clear.
S. S. Williametta, N. 38° 48′, W. 123° 50′†	29.62	752.3	42	5.6	91	nne.			4		6		nne.	0.06	1.5	mod.	n.	squally.
S. S. Alameda, N. 35° 20′, W. 131° 50′ †	29.95	760.7	49	9.4		nne.			3		7		ne.	0	0	mod.	nnw.	fair.
S. S. Ancon, Point Duma, Cal	29.76	755.9	54	12.2	80	wsw.			4		9			1 h'r	1 h'r	sm'h	sw.	cloudy
S. S. City of Chester, near Point Arenas, Cal †	29.71	754.6	41	5.0	74	nw.			6		10			snow	snow	h'vy	nw.	squally.
S. S. Queen of the Pacific, Seattle, Wash Ter.	29.92	760.0	27	— 2.8	88	nnw.			1		0			0	0			clear.
S. S. State of California, Portland, Oregon			25	— 3.9	75	calm			0		0							clear.
S. S. Eureka, N. 41° 40′ W. 124° 40′*†	29.84	757.9	38	3.3	54	nnw.			4		0			8 h'r	8 h'r	r'gh	nw.	clear.
S. S. City of Rio de Janeiro, Yokahama, Japan†	29.61	752.1				nnw.			6		7		nw.			cross	nnw.	fair.
S. S. Colima, Mazatlan, Mexico †	29.90	759.4	71	21.7	71	nne.			2		6		sw.	0	0	small	w.	fair.
S. S. Granada, Champerico, Gautemala †	29.86	758.4	72	22.2	90	ne.			1		0			0	0	mod.		clear.
S. S. San Blas, Panama, Panama†	29.87	758.7	73	22.8	95	nw.			2		5		w.	0	0			fair.
S. Carondelet, N. 16° 32′, E. 133° 21′ *†	29.99	761.7				e.			2		1			0	0	sm'h	ene.	clear.
S. St. Francis, N. 0° 15′, W. 114° 15′ *†	29.84	757.9	75	23.9	86	se.			2		5		ne.	0	0	sm'h	se.	fair.
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru *†	30.00	762.0	71	21.7	100	calm			0		8					mod	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru *	29.90	759.4	71	21.7	100	se.			1		5		calm			sm'h		fair.
H. M. S. Espeigle, S. 43° 37′, E. 172° 44′	30.28	769.1	54	12.2	87	calm			0		6							d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.11	764.8	62.3	16.8	89	sw.			1		6					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.93	760.2	62	16.7	89	calm			0		8							d. clouds.
S. S. Australia, S. 27° 07′, W. 177° 15′	30.18	766.6	73	22.8	76	ne.			1		6?		n	2 h'r	2 h'r	r'gh	ne.	overcast.?
S. S. Zealandia, S. 23° 07′, W 175° 51′	29.90	759.4	78	25.6	78	e.			4		8		e.	2 h'r	2 h'r	mod.	se.	cloudy.
S. Ismir, S. 37° 20′, W. 92° 26′ *†	30.40	772.1				se.			1		4		se.	0	0	long	sse.	fine.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.81	757.2	67	19.4		n.			1		5	n.				1	n.	
H. M. S. Sylvia, off Sandy Point, Patagonia	29.84	757.9	51.5	10.8	93	calm			0		10							overcast.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, S. 30° 05′, E. 34° 35′	29.96	761.0	75	23.9	81	sse.			6		10		calm	0.26	6.6	mod.	sse.	cloudy
H. M. S. Euryalus, Suakin, Egypt	29.85	758.2	76	24.4	82	ne.			3		3	se.						d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.98	761.5	84	28.9	75	sw.			1		6							showery.
S. S. Port Phillip, S. 35° 41′, E. 133° 59′	30.02	762.5	66	18.9	84	ese.			2							sm'h		clear.

International Chart I. February 7, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 8, 1884,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.10	764.6	60.4	15.8	77	se			1		3			0	0	pretty fair	Roziere.
Algiers			30.20	767.1	72.0	22.2	36	ssw.			4		8			0	0	very cloudy	Thève.
La Calle			30.25	768.4	66.6	19.2	72	ne.			1		2			0	0	fair	Fonfrède.
Tunis			30.28	769.1	55.4	13.0	64	w.			4		4			0	0		Delord.
Geriville					61.2	16.2	14	sw.			5		3			0	0	pretty fair	Forfert.
Laghouat			30.48	774.2	66.6	19.2	81	calm			0		0			0	0	clear	Abraham.
Biskra			30.36	771.2	65.5	18.6	68	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.02	762.5	77.0	25.0	28	e.	11	4.9			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.91	759.7	30.10	764.5	60	15.6	83	s.	10	4.5			10		s.	0.01	0.3	cloudy	Com. J. Shortt, R.N.
Melbourne, Victoria	30.02	762.5	30.11	764.8	63.2	17.3	96	ssw.	7	3.1			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.61	752.2	30.19	766.7	41.0	5.0	61	e.			2		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.35	745.5	30.14	765.6	38.7	3.7	78	wsw.	3.8	1.7			1			0	0		Dr. Wierzbiski
Eperies	29.32	744.7	30.24	768.0	37.8	3.2	85	calm			0		10			0	0	foggy	Julius Mikolik.
Gratz	28.85	732.9	30.15	765.8	41.7	5.4	70	s.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.75	730.3	30.22	767.6	45.7	7.6	64	se.			1		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.74	730.0	30.16	766.0	29.5	− 1.4	96	nne.			1		10			0	0	foggy	The Staff.
Lemberg	29.15	740.5	30.18	766.5	38.8	3.8	73	n.			1		10			0	0		Dr. T. Stanecki.
Pola	30.13	765.4	30.25	768.3	44.8	7.1	87	nnw.			1		10			0.047	1.2		I. R. Hydrographic Office.
Szathmar	29.73	755.1	30.21	767.4	39.0	3.9	92	w.			2		10			0	0		Joseph Midlinszky, S. J
Szegedin	29.93	760.3	30.22	767.7	37.6	3.1	91	se.			1		10			0	0		Karl Stancel.
Trieste	30.19	766.8	30.29	769.3	45.0	7.2	82	calm			0		10			0	0		Royal Academy.
Vienna	29.46	748.2	30.21	767.4	31.5	− 0.3	96	se.			2		10			0.004	0.1	foggy	I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.59	726.1	30.02	762.6	37.2	2.9	100	se.			0–1		8			0	0		
Brussels	29.78	756.5	29.98	761.6	47.3	8.5	82	ssw.			1		4			0	0		
Furnes	29.95	760.6	29.97	761.1	45.7	7.6	91	ssw.			0–1		10			0	0		
Maeseyck	29.87	758.6	29.99	761.8	45.7	7.7	88	w.			1		10			0	0	dense fog	
British.																			
Aberdeen	29.67	753.6	29.78	756.4	36.6	2.6	81	s.	10	4.5			6			0.095	2.4	misty	W. Boswell.
Bidston, Liverpool Obs'y			29.83	757.7	41.6	5.3	87	se.	13	5.8			5					d. clouds	John Hartnup.
Bolton, Sharples	29.31	744.5	29.85	758.2	36.6	2.6	93	sse.	0	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.44	747.8	29.83	757.7	42.9	6.1	85	se.			2		10			0.06	1.5	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.01	762.2	30.01	763.0	79	26.1	78	ne.			2		6					overcast	Corp'l O. McGregor, A.H.C
Cardington					38.6	3.7	89	s.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	29.77	756.1	29.95	760.7	41.3	5.2	91	calm			0		10					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory					48.2	9.0	89	s.			1		10					overcast	The Staff.
Fort Napier, Natal																			Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	29.67	753.6	29.90	759.4	87	30.6	62	n.			5		1					d. clouds	J. W. Smith.
Galway, Queen's College	29.62	752.3	29.66	753.4	45	7.2	92	s.			2		7			0.03	0.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.10	764.5	30.15	765.8	60.2	15.7	92	nw.			3		8					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.76	755.9	29.94	760.5	41.2	5.1	91	ssw.					10					overcast	The Staff.
Guernsey	29.52	749.8	29.82	757.4	47.7	8.7	98	sse.			1		10					drizzling	A. Collenette, F.R.M.S.
Kew, Observatory	29.90	759.4	29.93	760.2	41.3	5.2	87	ne.	1	0.4			10					misty	The Staff.
Leicester, Museum	29.63	752.6	29.90	759.4	38.7	3.7	90	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.16	766.1	30.24	768.1	64.4	18.0	60	sw.			2		6			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.20	767.1	30.24	768.1	71.5	21.9	69	e.			1		8					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.69	754.1	29.92	760.0	40.2	4.6	89	s.			1		10					overcast	The Staff.
Plymouth	29.81	757.2	29.88	758.9	48.5	9.2	85	calm			0		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.50	749.3	29.60	751.8	38.9	3.8	77						1					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.10	764.5	30.17	766.3	45.2	7.3	78	sw.			1		9					gloomy	W. H. Lyne.
Sheffield	29.57	751.1	29.86	758.4	40.8	4.9	91	sw.			2		7					overcast	W. F. Cooper.
Stilloth Rectory	29.76	755.9	29.79	756.7	43.6	6.4	88	s.			1		10			0.065	1.6	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.87	758.7	39.8	4.3	84	s.	11	4.9			10			0	0	overcast	Rev. S. J. Perry.
Strathfield Turgiss					42.1	5.6	92	se.			1.0		10					foggy	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.63	752.6	29.66	753.4	49.0	9.8	86	s.	32	14.3			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.89	759.2	30.27	768.8	60.1	15.6	81	sw.	5.0	2.2		8 ck	0	w.		0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.78	781.8	30.83	783.1	0.0	−17.8		calm	0	0		1 cs	0			0.300	7.6	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.73	780.5	30.78	781.8	0	−17.8	91	n.	12	5.4		2 c	0			0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.76	781.3	30.83	783.1	− 9	−22.8	100	w.	1	0.4		5 k	2 k	w.	w.	0	0	fair	G. A. Blair.
Cornwall, Ontario	30.21	767.3	30.42	772.7	3.0	−16.1	89	e.			3		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.78	781.8	30.83	783.1	− 7.0	−21.7		w.			1	5 cs	0			0.300	7.6	blue sky	H. A. Johnson.
Father Point, Quebec*	30.82	782.8	30.84	783.3	−15	−26.1	73	se.	8	3.6		0	2 n		calm	0.30	7.6	clear	J. McWilliams
Fort Garry, Manitoba*	29.25	742.9	30.21	767.3	−11	−23.9	100	s.	7	3.1		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.74	780.8	30.82	782.8	− 2.9	−19.4	100	calm	0	0		0	0			0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	30.63	778.0	30.69	779.5	16	− 8.9	83	ne.	22	9.8			10 s		ne.			light snow	J. Chipman Seeley
Granton, Ontario	29.11	739.4	30.28	769.1	25.2	− 3.8	98	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.57	776.5	30.71	780.0	15	− 9.4	91	n.	13	5.8		5 k	5 ks			0.020	0.5	cloudy	A. Allison.
Hamilton, Ontario	29.78	756.4	30.21	767.3	29.7	− 1.3	89	ne.			1	10 cs	0	ne.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.09	764.3	30.38	771.6	12	−11.1	83	nw.	10	4.5			10 n					hazing	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.62	777.7	30.66	778.7	6.0	−14.4	88	w.	6	2.7		10 cs	0			0	0	overcast	C. H. Rigby.
London, Ontario	29.31	744.5	30.27	768.8	25.8	− 3.4	94	calm			0		10 ks			0.10	2.5	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.79	705.9	30.36	771.1	− 3	−19.4	83	w.	2	0.9			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	28.00	711.2	30.22	767.6	− 15	−26.1	100	w.	10	4.5		c	2 ks		w.	0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	30.28	769.1	30.52	775.2	− 2	−18.9	79	e.	6	2.7		5 ck	5 s	w.		0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.19	766.8	30.44	773.2	5.9	−14.5	78	e				0	8 ks			0.05	1.3	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.56	750.8	30.32	770.1	14	−10.0	91	se.	8	3.6			10 n		se.	0.01	0.3	light snow	Rev. R. Mosley.
Peterboro, Ontario	29.52	749.8	30.33	770.4	13.6	−10.2	84	e.			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.39	746.5	30.16	766.1	7	−13.9	76	s.	3	1.3			10 n			0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.54	750.3	30.28	769.1	25	− 3.9	100	ne.	2	0.9			10 n			0.05	1.3	threatening	R. Morgan.
Port Stanley, Ontario	29.58	751.3	30.27	768.8	27	− 2.8	92	ne.	3	1.3			10 n		e	0.07	1.8	cloudy	M. Payne.
Qu Appelle, N. W. T	27.82	706.6	30.49	774.4	−22	−30.0		nw.	4	1.8		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	30.26	768.6	30.66	778.7	1	−17.2	91	n.	28	12.5		10 ck	0	w.		0	0	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	29.87	758.7	30.37	771.4	7	−13.9	83	e.	15	6.7			10 n			0	0	threatening	W. H. McIntyre.
St. Andrews, N. B.	30.66	778.7	30.72	780.3	10	−12.2	92	ne.	9	4.0		0	0			0	0	clear	
St. John, N. B	30.59	777.0	30.75	781.0	8.0	−13.3	89	ne.	8	3.6		0	2 k			inap.	inap.	fair	G. Hutchinson.
St. Pierre, N. F			30.43	773.0	12.2	−11.0		n.			4								The Commandant.
Saugeen, Ontario*	29.51	749.5	30.28	769.1	21	− 6.1	96	n.	5	2.2			10 s			0	0	cloudy	
Stratford, Ontario	28.91	734.3	30.27	768.8	24.1	− 4.4	97	calm	0	0			10 s			0	0	d. clouds	W. McBride, M.A.
Sydney, C. B*	30.62	777.7	30.69	779.5	6	−14.4	83	n.	16	7.2		0	0			0	0	clear	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.89	759.2	30.30	769.6	24	— 4.4	92	e.	12	5.4			10 n					sleeting	Director Observatory.
Woodstock, Ontario	29.18	741.2	30.31	769.9	24.8	— 4.0	96						10 s			0	0	gloomy	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.57	776.5	30.65	778.5	19	— 7.2	70	e.	11	4.9		8 ck	0	w.		0.05	1.3	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.11	764.8	30.14	765.5	72.5	22.5	90	ne.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	30.01	762.2			76.2	24.6	58	se.				0	1 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4			91	32.8	39									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.92	755.9	29.99	761.8	63.0	17.2	84	nw.			3	10						cloudy	Samuel Redolez.
Iquique	29.83	757.6	29.85	758.3	73.4	23.0	77	w.			2	4 c						foggy	Rafael Moreno.
Niebla	29.49	749.1	29.60	751.8	59.0	15.0	66	e.			5	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.84	757.9	29.93	760.1	68.9	20.5	77	nw.			1	4 c		nw.				fair	Manuel Tobar.
Punta Corona	29.85	758.1	30.03	762.8				e.			1	0				0	0	clear	Francisco Alvarado.
Valparaiso	29.83	757.6	29.97	761.1	60.4	15.8	89	n.			0		10					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.45	773.3	30.47	773.9	21.0	— 6.1	74	w.	1.6	0.7		3 ck	0	w.		0	0	fair	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.06	763.4	30.10	764.6	36.9	2.7	85	s.	9	4.			6						Oversergent Fischer.
Fanöe	29.98	761.6	30.00	762.1	39.4	4.1	92	se.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.52	749.8	29.56	750.9	—11.7	—24.3	100	nw.			4		10						S. Kleinschmidt.
Ivigtut, Greenland	29.28	743.8	29.30	744.3	— 3.5	—19.7		calm			0		8						
Jacobshavn, Greenland	29.66	753.4	29.71	754.6	—26.0	—32.2		calm			0		1						
Stykkisholm, Iceland	28.71	729.1	28.75	730.2	21.6	— 5.8	93	ne.			7		8						A. O. Thoriacius.
Thorshavn	29.17	740.8	29.19	741.4	41.7	5.4	92	ssw.	29	13			10					raining	Overloerer Bergh.
Upernavik, Greenland	29.60	751.9	29.65	753.1	—26.7	—32.6		e.			2		1					misty	
Vestervig	29.89	759.3	29.98	761.6	36.5	2.5	80	sse.			4		8						Loerer Oesterbol.
Egyptian.																			
Cairo	30.06	763.6			59.9	15.5		n.	4.0	1.8		0	8 k			0.039	1.0		Albert Ismalun.
French.																			
Agen, Normal School	29.43	747.4	30.08	764.0	57.2	14	86	ese.			1		5 kn	se.	se.	0	0		M. Labroue, Director.
Alençon, Normal School	29.39	746.6	29.95	760.6	43.2	6.2	88	calm			0		10 n			0	0	covered	M. Nicot, Director.
Arras, Normal School	29.80	756.9			46.0	7.8	83	ese.			1		2			0	0	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.08	764.0	30.16	766.0	55.4	13	62	e.			2		5		se.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.48	748.8	30.06	763.4	41.9	5.5	87	sse.			1		8		w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.72	754.8	29.99	761.8	44.2	6.8	83	e.			1		10			0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.16	740.7	30.03	762.7	53.6	12	65	s.			1		kn		n.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.71	754.7	29.98	761.4	54.1	12.3	76	se.			1		8		se.	0.012	0.3	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.46	748.3	30.02	762.5	50.2	10.1	97	se.			1		8		se.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.71	754.7	29.96	760.9	48.9	9.4	92	s.			1		10		s.	0	0	misty	M. de Kermarrée, Dir.
Caen, Normal School	29.87	758.8	29.95	760.7	47.1	8.4	94	s.			1		10			0.08	2.	rain & fog	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.72	754.8	30.05	763.2	43.3	6.3	91	calm			0		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.49	749.0	30.02	762.4	40.6	4.8	79	se.			1					0	0	foggy	M. Noël, Director.
Clermont-Ferrand Obs'y	28.65	727.7	30.02	762.5	49.3	9.6	77	s.			1		10			0	0		M. Alluard, Director.
Cluny, Normal School	29.21	741.8	30.07	763.8	50.9	10.5	69	s.			4		10	n.		0	0	covered	M. de Villemontés, Dir.
Commercy, Normal School	29.17	740.8	30.04	763.1	40.8	4.9	81	ese.			1		8 n	ese.	ese.	0	0	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.58	700.4	30.15	765.9	47.3	8.5	63	e.			1		4 kn			0	0		M. Jarach, Director.
Grasque, du Rhone	29.02	737.0	30.15	765.8	55.9	13.3	55	se.			1		5		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.40	746.7	30.20	767.0	40.3	4.6	90	ne.			1		k		ne.	0	0		M. Abland, Director.
Guéret, Normal School	28.39	721.0	29.95	760.8	51.8	11	63	sw.			1		n		sw.	0	0		M. Delorme, Dir.
Lescar, Normal School	29.42	747.3	29.98	761.6	63.0	17.2	53	ese.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.84	757.8	29.94	760.4	48.2	9.0	84	ese.			1		10		se.	0.252	6.4	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.01	736.8	30.08	763.9	50.5	10.3	71	s.			4		8 n			0	0	very cloudy	M. André, Director.
Mans, Normal School	29.66	753.3	29.97	761.3	45.3	7.4		s.			1		8		s.			light rain	M. Richard, Director
Marseille, Observatory	29.88	758.9	30.15	765.8	57.6	14.2	54	e.			2		7		sw.	0	0		M. Stephan, Director.
Montlouis	24.83	630.7	29.67	753.7	46.4	8.0	46	sw.	20.6	9.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.99	761.8	30.10	764.6	51.1	10.6	95	e.			4		5		nw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.26	743.3	30.07	763.8	39.2	4.0	77	ssw.			1					0	0	foggy	M. Hasse, Director.
Nantes, Observatory	29.80	757.0	29.97	761.2	48.9	9.4	92	se.			0–1		10 u;kn		ssw.	0.059	1.5		M. Larocque, Director.
Perpignan, Observatory	29.93	760.2	30.04	763.0	62.2	16.8	48	se.	3.8	1.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.14	537.0			24.3	— 4.3		sw.			2		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.04	737.7	30.13	765.4	50.4	10.2	70	s.			1		n		n.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.11	637.7			35.1	1.7	98	ssw.			4		10			0	0	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.95	760.6	29.98	761.4	51.4	10.8	77	s.			1		10		sw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.74	755.4	29.96	761.0	49.3	9.6	86	se.			1					inap.	inap.		M. Brotier, Director.
Rodez, Normal School	27.94	709.7	30.11	764.8	49.5	9.7		se.			2		10 ks		nw.	0.012	0.3	raining	M. Seger, Director.
Rouen, Normal School	29.93	760.2	29.98	761.4	46.4	8	86	se.			1		10			0	0	covered	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.83	757.7	30.00	761.9	46.4	8.0	77	nne.			1		8	sw.		0	0	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.32	744.7	30.04	763.1	59.5	15.3	62	sse.			2		1	se.		0	0	clear	M. Baillaud, Director.
Tours	29.80	756.9	29.98	761.5	50.0	10.0	84	ene.			1		8	sw.	ssw.			light rain	M. de Tastes.
Versailles, Observatory	29.48	748.8	29.97	761.3	49.3	9.6	74	s.			1		0			0.020	0.5	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.85	758.3	30.00	762.1	61.5	16.4	53	sw.	11.9	5.3			7 k		sw.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.62	726.9	30.11	764.8	41.7	5.4	65	calm			0		2			0	0		Prof. Jnedt.
Bamberg	29.19	741.3	30.03	762.7	38.5	3.6	75	calm			0		6 ks			0	0		Prof. Dr. Hoh.
Berlin	29.95	760.6	30.10	764.4	42.4	5.8	70	e.			2		9			0	0		Meteorological Institute
Breslau	29.61	752.2	30.15	765.7	40.6	4.8	70	ese.			2		2	w.		0	0		Royal University Obs'y
Carlsruhe	29.64	752.9	30.13	765.2	30.6	— 0.8	94	calm			0		10			0.035	0.9		Albert Senz.
Cassel	29.30	744.3	30.02	762.4	38.5	3.6	80	s.			1		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.73	755.1	30.11	764.9	33.3	0.7	85	s.			1		10			0	0		Physical Society.
Friedrichshafen	28.66	727.9	30.14	765.6	33.4	0.8	94	sw			1		10			0	0	dense fog	Wilhelm, Chief Tel.
Hamburg	29.97	761.2	30.06	763.5	41.2	5.1	73	se.			3		7	w.		0	0		E. Preller.
Kiel	30.02	762.6	30.04	763.0	42.4	5.8	78	ese.			2		9			0.024	0.6		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.64	752.9	30.07	763.8	43.2	6.2	74	se.			1		7			0	0		H. Leppig, Asst.
Magdeburg	29.87	758.6	30.06	763.6	42.4	5.8	75	ese.			1		4 k	sw.		0	0		Weather Observatory.
Memel	30.06	763.6	30.11	764.8	36.3	2.4	93	nw.			3	1 cs							Issermann.
Munich	28.22	716.9	30.09	764.3	46.4	8.0	53	n.			1		5	n.		0	0		Central Station.
Neufahrwasser	30.14	765.6	30.16	766.0	39.9	4.4	65	w.			2		1	sw.		0	0		A. Lothes.
Neustadt, Palatinate	29.55	750.5	30.08	763.9	30.0	— 0.6	92	calm			0		10			0	0	foggy	Prof. Dicknether.
Stuttgart	29.10	739.2	30.02	762.5	43.2	6.2	67	ne.			1		4	sw.		0.067	1.7		Prof. Dr. Schoder.
Wustrow	30.06	763.6	30.09	764.2	39.7	4.3	96	se.			1		10			0	0		Profs. Brandes & Reimer
Greek.																			
Athens																			Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.90	759.5	29.95	760.8	76.4	24.7	47	w.	16.0	7.2			4			0	0	d. clouds	
Deesa	29.46	748.2	29.94	760.4	77.9	25.5	11	nnw.	9.0	4.0			0			0	0	blue sky	
Bombay	29.92	759.9	29.96	760.8	75.7	24.3	56	nw.	13.0	5.8			0			0	0	blue sky	
Poona, Yarrowda	28.04	712.3	29.90	759.5	78.7	25.9	25	w.	15.0	6.7			0			0	0	blue sky	
Belgaum	27.36	695.0	29.91	759.6	75.5	24.2	51	wsw.	7.0	3.1			1		w.	0	0	d. clouds	
Lahore	29.18	741.2	29.96	760.8	62.6	17.0	53	calm	0	0			0			0	0	blue sky	
Roorkee	28.99	736.3	29.91	759.8	66.8	19.3	34	calm	0	0			0			0	0	blue sky	
Agra	29.37	746.1	29.95	760.8	70.2	21.2	18	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.80	731.6	29.85	758.1	79.9	26.6	44	e.	6.0	2.7			5		sw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.55	725.2	29.93	760.2	72.4	22.4	26	ne.	2.0	0.9			10		sw.	0	0	overcast	
Lucknow	29.58	751.2	29.96	761.1	67.3	19.6	23	wnw.	6.0	2.7			0			0	0	blue sky	
Allahabad	29.64	752.9	29.96	761.1	67.3	19.6	44	calm	0	0			0			0	0	blue sky	
Patna	29.75	755.6	29.94	760.4	68.2	20.1	32	sw.	2.7	1.2			0			0	0	blue sky	
Hazaribagh	27.88	708.2	29.94	760.4	66.1	18.9	22	ssw.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.84	757.9	29.92	760.0	76.8	24.9	60	ese.	1.0	0.4			8			0	0	d. clouds	
Calcutta, Alipore	29.94	760.4	29.96	761.0	67.2	19.6	52	sw.	1.0	0.4			1			0	0	d. clouds	
Dhubri	29.83	757.6	29.95	760.8	67.0	19.4	46	calm	0	0			0			0	0	blue sky	
Chittagong	29.87	758.8	29.97	761.1	68.1	20.1	63	w.	3.2	1.4			1			0	0	d. clouds	
Sibsagar	29.64	752.8	29.99	761.7	60.8	16.0	85	ne.	2.0	0.9			5	w.	w.	0	0	d. clouds	
Jeypore	28.47	723.2	29.95	760.7	69.7	20.9	44	wsw.	5.0	2.2			0			0	0	blue sky	
Zanzibar	29.91	759.7	29.93	760.3	82.8	28.2	61	wsw.	6.3	2.8			4	nnw.		0	0	d. clouds	
Bellary	28.39	721.1			86.0	30.0	34	ne.				3 ck	0			0	0	d. clouds	
Trichinopoly	29.64	752.8			86.7	30.4	31	ne.	0.2	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.85	758.1	30.27	768.9	38.3	3.5	90	calm	0	0			10			0	0		Prof. Giovanni Clodig.
Milan	29.72	755.0	30.26	768.7	47.1	8.4	73	s.	1.3	0.6			8	sw.		0	0		Prof. G.V.Schiapparelli
Padua	30.15	765.9	30.27	768.8	34.3	1.3	92	nne.	1.8	0.8			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.30	744.1	30.23	767.9	47.3	8.5	74	nnw.	1.8	0.8			10			0	0		Prof. F. F. Denza.
Genoa	30.03	762.7	30.22	767.7	52.9	11.6	69	se.	6.3	2.8			10	s.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.20	767.1	30.25	768.4	43.5	6.4	94	n.	8.7	3.9			10			0	0		Prof. Luigi Guidi.
Florence	29.98	761.5	30.24	768.1	48.9	9.4	74	ene.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	30.11	764.8	30.18	766.6	51.6	10.9	76	ne.	3.8	1.7			10	sw.		0	0		Prof. P. Monte.
Rome	30.06	763.6	30.24	768.1	54.0	12.2	60	ene.	1.3	0.6			3			0	0		Prof. P. Tacchini.
Lecce	29.96	761.0	30.22	767.6	56.1	13.4	71	nnw.	4.9	2.2			4			0.020	0.5		Prof. C. de Giorgi.
Cosenza	29.30	744.1	30.21	767.4	51.8	11.0	75	sse.	1.8	0.8			2	se.		0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.99	761.7	30.24	768.2	57.0	13.9	68	ne.	3.8	1.7			0			0	0		Prof. G. Cacciatore
Syracuse	30.20	767.0	30.24	768.2	56.1	13.4	77	e.	0.7	0.3			6	wnw.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.71	754.5	30.24	768.1	54.0	12.2	75	ese.	1.3	0.6			7	wsw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.72	754.9	29.75	755.8	29.8	— 1.2	72	w.			4	2 ck	2 s;k	w.	w.	0.087	2.2	fair	H. Hattori.
Awomori	29.67	753.6	29.70	754.4	27.0	— 2.8	94	n.	3.2	1.4		0	8ck;s		w.	0.163	4.1	cloudy	K. Ogawa.
Hakodate	29.68	753.9	29.69	754.2	26.2	— 3.2	96	nne.	12.0	5.4		0	7 ks			0.198	5.0	cloudy	Y. Souma.
Hamamatsu	29.90	759.4	30.00	761.9	32.1	0.1	59	w.			4	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.14	765.5	30.15	765.9	29.9	— 1.2	69	w.	3.0	1.3		0	4ck;s		w.	0	0	fair	Y. Okamoto.
Kagoshima	30.22	767.5	30.23	767.8	34.0	1.1	62	ne.			2		10 s		nw.	0.008	0.2	overcast	
Kanazawa	29.87	758.7	29.98	761.5	31.0	— 0.6	100	sw.	14.8	6.6			10ks;s		sw.	1.160	29.5	overcast	S. Endo.
Kioto	29.89	759.2	30.06	763.6	30.3	— 0.9	67	w.	6.5	2.9		2 cs	0			0	0	clear	M. Tojima.
Kochi	30.11	764.8	30.13	765.3	33.5	0.8	57	w.	9.1	4.0		1 ck	0			0	0	clear	K. Kusunose.
Miasaka	30.18	766.7	30.22	767.5	31.3	— 0.4	57	nw.			2	0	1 s		wnw.	0	0	clear	K. Masusaki.
Miyako	29.61	752.1	29.72	755.0	30.4	— 0.9	66	wsw.	0.3	0.1		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.03	762.7	30.25	768.3	31.0	— 0.6	72	n.	2.7	1.2			10 n			0.090	2.3	snowing	
Nemuro	29.58	751.3	29.63	752.6	27.5	— 2.5	86	nnw.	12.0	5.4			10 n					snowing	A Shibuya.
Niigata	29.81	757.2	29.84	757.9	30.7	— 0.7	89	wnw.	32.9	14.7			10 n		w.	0.375	9.5	light snow	Satoo & Tomikawa.
Nobiru	29.75	755.7	29.77	756.1	26.6	— 3.3	100	calm	0	0		0	0			0.020	0.5	clear	Yoshino & Midzushina.
Numadzu	29.84	757.9	29.87	758.7	38.2	3.4	55	sw.			6	0	0			0	0	clear	T. Ohgi.
Osaka	30.06	764.1	30.10	764.5	30.8	— 0.7	57	w.	12.5	5.5		10 cs	0	w.		0	0	cloudy	H. Omura.
Sakai	30.06	763.5	30.07	763.7	29.8	— 1.2	86	sw.			4		10 n		nw.	0.153	3.9	snowing	Yamawchi & Sakamoto.
Sapporo	29.64	752.7	29.70	754.4	21.8	— 5.7	97	e.	4.2	1.9			9 n		sw.	0.142	3.6	overcast	S. Kimura.
Shimonoseki	30.03	762.6	30.17	766.3	31.8	— 0.1	74	wnw.			6		10 n		wnw.	0.091	2.3	snowing	S. Sakano.
Wakayama	30.06	763.5	30.11	764.9	32.4	0.2	63	var.	5.6	2.5		4 cs	1 ck	w.	w.	inap.	inap.	fair	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.70	754.4	29.89	759.2	82.0	27.8	65	se.	10.5	4.7			8ks;kn		se.	0.13	3.3	cloudy	The Staff.
MEXICAN.																			
Leon	24.31	617.5	30.09	764.3	50.0	10.0	76	nnw.	0.9	0.4		5 c	0			0	0	fair	M. Leal & M. Pina.
Mazatlan	29.76	756.0	30.03	762.7	68.0	20.0	90	e.	1.0	0.8		1 cs	1 n		se.	0	0	hazy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.97	761.3	29.97	761.3	46.0	7.8		ssw.			2					0	0		
Groningen	29.98	761.4	30.03	762.8	42.1	5.6		s.								0	0		
Helder	29.95	760.6	29.95	760.6	40.6	4.8		se.			1					0	0		
Hellevoetsluis	29.98	761.4	29.98	761.4	49.3	9.6	86	sw.			1					0	0		
Utrecht	29.94	760.5	30.00	761.9	44.4	6.9	85	sse.			2		10			0.004	0.1	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.92	759.9			74.8	23.8	91	wsw.	1.0	0.4			10			1.327	33.7		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.83	757.6	29.89	759.2	38.1	3.4	73	s.	20	9			10			0	0		
Brono	29.48	748.9	29.52	749.9	39.2	4.0	77	sw.			6		10			0.138	3.5	raining	
Christiania	29.79	756.7	29.95	760.6	35.2	1.8	67	wnw.	0	0			0			0	0		
Gjæsvær	28.98	736.1	29.00	736.7	35.6	2.0		w.			9		10			0.079	2.0		
Lodingen	29.29	744.0	29.34	745.2	28.8	— 1.8	98	s.			6		10			0.598	15.2	snowing	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.04	763.0	30.13	765.3	61.0	16.1	74	calm	0	0			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.6	30.05	763.2	55.2	12.9	85	sw.	11.2	5.0			9			0.815	20.7		The Staff.
Ponta Delgada, Azores	30.21	767.3	30.28	769.1	56.5	13.6	75	nw.	4.3	1.9			3			0.071	1.8		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.02	762.4	30.05	763.3	68.2	20.1	64	ene.			4		7			0	0		
San Salvador, Congo	28.07	712.9	29.89	759.1	81.9	27.7	62	w.			1		5			0.079	2.0		
Serra da Estrella	25.17	639.2	30.03	762.8	33.8	1.0	100	ese.			3		10			0.575	14.6	snow & fog	
RUSSIAN.																			
Akmolinski	28.39	721.2	29.56	750.8	6.3	—14.3	96	w.	27	12		5 ck	0			0.047	1.2		Major K. Lasarew.
Archangel	29.25	742.9	29.27	743.4	8.6	—13.0	88	e.	4	2			10			blank	blank		Capt. Sselliwerstow
Ashurada	30.34	770.6	30.24	768.2	53.6	12.0	58	ene.	16	7		0	2 k			0	0	light clouds	
Astrakhan	30.25	768.3	30.17	766.3	31.3	— 0.4	89	wsw.	7	3			10			0	0		Capt. Wisganow.
Baku	30.30	769.6	30.25	768.4	44.4	6.9	84	ssw.	9	4			9 ks			0.102	2.6		
Barnaul	29.23	742.4	29.75	755.6	28.4	— 2.0	92	sw.	18	8			10			0.157	4.0		Meteorological Office.
Bielosersk	28.65	727.6	29.12	739.7	29.5	— 1.4	88	wsw.	11	5			10 s			0.122	3.1	light snow	
Dorpat	29.54	750.2	29.79	756.6	33.4	0.8	59	wnw.	20	9		0	2 ks			0	0		Observatory.
Ekaterinburg	28.51	724.1	29.53	750.1	12.4	—10.9	87	nw.	9	4			10			0	0		Meteorological Obs'y
Elissawetgrad	29.05	753.1	30.12	765.0	36.9	2.7	91	nw.	13	6			10 n			0.059	1.5		
Kasan	29.29	743.9	29.57	751.0	23.0	— 5.0	90	ssw.	11	5			10			blank	blank		Observatory.
Kem	29.30	744.2	29.35	745.5	22.3	— 5.4	80	n.	13	6			10 ks			0	0		
Kertch	30.08	763.9	30.10	764.5	44.2	6.8	82	calm	0	0			10 n			0	0		Lagorio & Sastyres.
Kieff	29.37	745.9	30.02	762.6	37.8	3.2	81	wnw.	13	6			10 ks			blank	blank	light fog	Observatory.
Kosloy	29.16	740.7	29.68	753.8	31.0	1.1	94	wsw.	20	9			10 s			0	0		
Lgov	29.32	744.6	29.92	760.0	34.5	1.4	94	w.	16	7			10			0.004	0.1		R. I. Saaweljew, Engin'r.
Libau	30.04	763.0	30.06	763.6	37.8	3.2	76	w.	7	3			0			0	0		L. Junge.
Lugan	29.78	756.5	29.99	761.8	37.2	2.9	85	sw.	13	6			10			0	0		Meteorological Obs'y
Moscow	29.02	737.0	29.50	749.3	36.3	2.4	72	nw.	9	4		0	0			0.012	0.3		Meteorological Obs'y
Nertschinsk	28.06	712.6	30.71	779.9	—13.0	—25.0	69	calm	0	0			0			0	0		
Nikolaiev	30.06	763.5	30.13	765.3	41.2	5.1	88	nw.	9	4			10 n			0.098	2.5		Capt. Kurdakow.

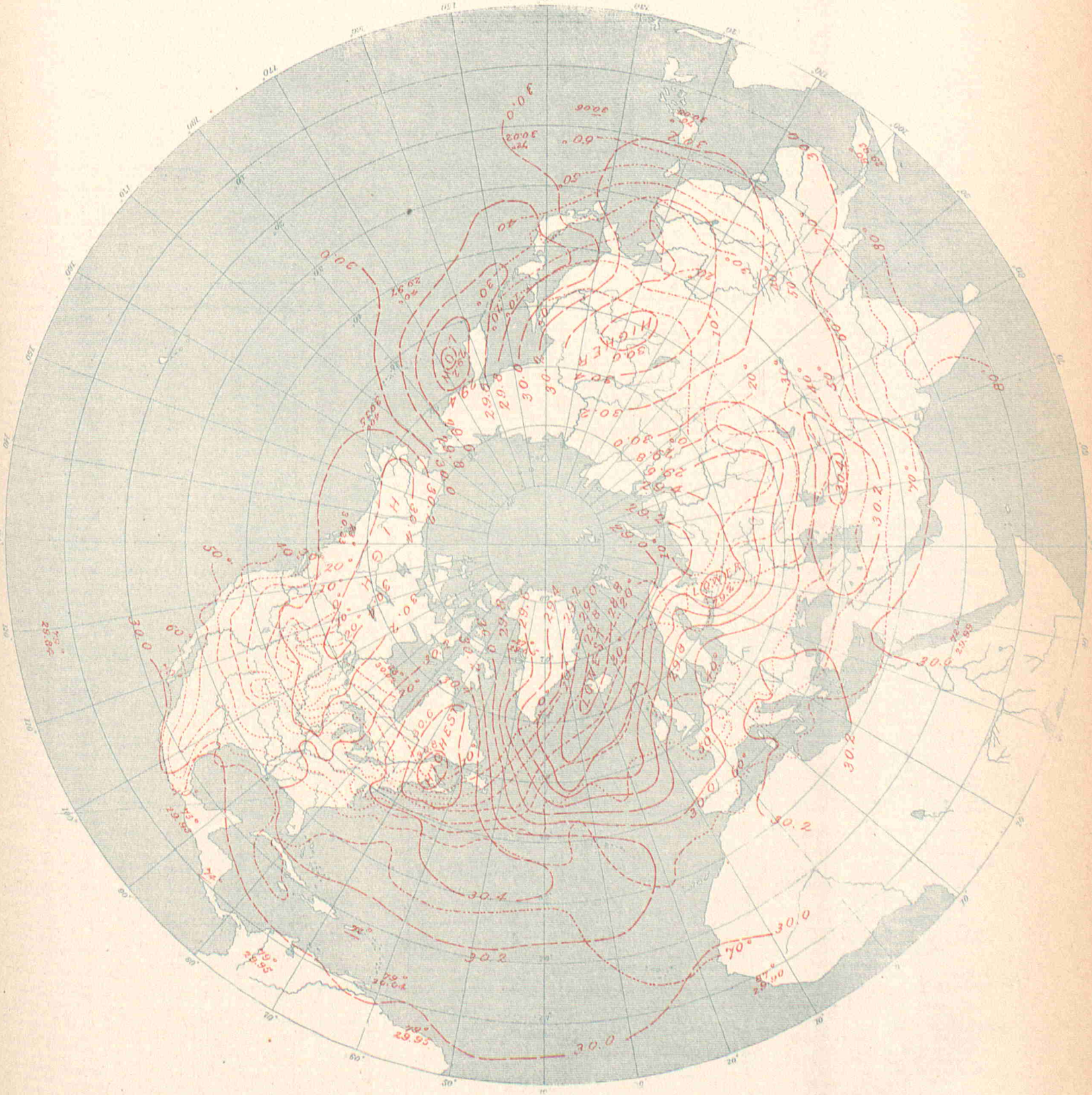
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.																			Iwanow.
Pekin, China	30.22	767.6	30.36	771.2	21.2	— 6.0	29	nw.	2.2	1.0		0	0						Siang.
Petro-Alexandrovsk	30.04	763.0	30.41	772.5	34.9	1.6	53	w.	2	1			3						Walter.
Petrozavodsk	28.87	733.3	29.07	738.3	31.1	— 0.5	90	nw.	22	10			10			0.197	5.0	light clouds	Dr. Bergmann.
Pinsk	29.61	752.0	30.12	765.0	38.5	3.6	73	nw.	18	8		0	6 k			0.031	0.8		
Poti	30.12	765.0	30.15	765.8	46.0	7.8	89	e.	4	2		0	2 k			0.024	0.6		
St. Petersburg	29.43	747.4	29.45	748.0	30.7	— 0.7	71	w.	27	12			10 n			0.094	2.4		Central Physical Obs'y.
Samarkand	27.80	706.2	30.41	772.5	31.3	— 0.4	89	sw.	27	12		0	2 k						Dresch.
Semipalatinsk	29.23	742.5	29.93	760.3	22.8	— 5.1	80	sw.	16	7			8			0	0		Major Lasarew
Sevastopol	29.96	761.0	30.18	766.6	44.2	6.8	84	sw.	4	2			10 n			0.016	0.4	heavy clouds	
Starol Bykhov	29.35	745.8	29.93	760.3	37.0	2.8	69	w.	22	10		0	2 k			0.004	0.1	light clouds	Carl Hagen.
Tashkend, Laboratory	28.60	726.5	30.38	771.7	29.8	— 1.2	100	calm	0	0			10 n					h'vy clouds.	Teren, A. M
Tiflis	28.83	732.3	30.30	769.6	42.1	5.6	39	se.	4	2		0	0			0	0		Physical Observatory.
Vernoe	27.56	699.9	30.19	766.8	28.0	— 2.2	73	calm	0	0			10 n						Sariono.
Viatka	28.79	731.3	29.45	748.0	20.8	— 6.2	80	s.	4	2			10			0.197	5.0		
Vladivostock	29.77	756.1	29.84	757.8	6.6	—14.1	64	nw.	22	10			8 n			0.020	0.5		
Warsaw	29.74	755.5	30.19	766.7	37.9	3.3	87	w.	4	2			10					heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.69	754.2	30.01	762.3	— 2.7	—19.3	80	ese.	2	1			1			0.071	1.8		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.89	733.8	29.40	746.7	34.0	1.1	58	w.	33.4	14.9		0	1 ks			0	0	clear	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.96	761.0	30.07	763.8	57.6	14.2	78	se.				5 ck	0			0	0		B.J.Elin.
Bilbao, Met. Obs'y	29.93	760.1	29.98	761.6	65.1	18.4	47	s.	2.2	1.0		3	3	w.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.08	687.8	30.08	763.9	49.5	9.7	53	s.	3.8	1.7		0	8			0.047	1.2	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.83	706.9	30.10	764.5	48.9	9.4	86	se.	8.1	3.6			10			0.142	3.6	covered	The Staff.
Murcia, Met. Obs'y	29.97	761.3	30.11	764.8	62.1	16.7	84	se.	0.9	0.4		3	5	w.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.01	736.9	29.91	759.6	56.7	13.7	73	s.	6.3	2.8			9			0.012	0.3	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.12	765.0	30.19	766.6	70.0	21.1	83	e.	8.9	4.0		0	1 k;s		ese.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.01	762.2	30.06	763.6	75.5	24.2	71	ne.	0	0		2 ck		sse.		0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.8	30.17	766.3	61.0	16.1	76	wsw.	11.7	5.3		1	5	w.	w.	0.078	2.0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I.	29.85?	758.2?	29.94?	760.5?	72.0	22.2	83	se.	3.6	1.6		3 s	1 k		se.	0.181	4.6		Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.58	751.2	29.61	752.2	15.8	— 9.0	94	calm			0		0			0.193	4.9		
Umea	29.70	754.4	29.75	755.7	29.7	— 1.3	67	nw.			4		6			0	0		
Hernosand	29.80	756.9	29.85	758.2	34.5	1.4	59	calm			0		0			0.039	1.0		
Stockholm	29.80	757.0	29.98	761.5	35.1	1.7	69	w.			2		0			0.012	0.3		
Wisby	29.96	760.9	30.02	762.4	36.3	2.4	75	w.			4		0			0	0		
Sub-series.																			
Upsala	29.87	758.8	29.96	761.0	35.4	1.9	64	w.	1.8	0.8			0			0	0		H.H.Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.21	767.4	46.0	7.8	77	sw.	2	1.0			10		sw.	0	0	foggy	The Observatory.
Valona			30.28	769.1	59.4	15.2		ne.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.98	761.5	59.0	15.0	66	nw.			2		2 k		nw.	0	0		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.41	772.4	30.50	774.7	27	— 2.8	88	n.	1	0.4			10 n			0.05	1.3	sleeting	J. O. Barnes.
Alpena, Michigan	29.53	750.0	30.24	768.1	20	— 6.7	70	se.	4	1.8			10 s			0.02	0.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.91	632.7	30.01	762.2	38.0	3.3	85	sw.	8	3.6			10 s		sw.	0.11	2.8	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.24	691.9	30.28	769.1	— 8.0	—22.2	61	se.	1	0.4		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.04	737.6	30.26	768.6	61.2	16.2	89	w.	7	3.1			10 s		w.	0.38	9.7	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.29	769.4	30.30	769.6	39.0	3.9	100	n.	19	8.5			10 n			0.69	17.5	light rain	B.A.Blundon.
Augusta, Georgia	30.09	764.3	30.29	769.4	60.5	15.8	87	s.	2	0.9		10 c	hz.	sw.		0	0	cloudy	W.J.Evans.
Baltimore, Maryland	30.30	769.6	30.35	770.9	42	5.6	83	ne.	4	1.8			10 n		n.	0.52	13.2	light rain	Geo. W. Feiger.
Barnegat City, New Jersey	30.32	770.1	30.34	770.6	39.0	3.9	100	e.	28	12.5			10n;fg		e.	0.12	3.0	light rain	F.L.Johnson.
Bennett, Fort, Dakota	28.58	725.9	30.31	769.9	—21.0	—29.4	100	ne.	5	2.2			0			0.08	2.0	clear	A. Pritchard.
Benton, Fort, Montana	27.31	693.7	30.31	769.9	—16.5	—26.9	45	w.			2		10 s		sw.	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.28	718.3	30.26	768.6	—18.2	—27.9	100	calm	0	0		0	0			0.06	1.5	clear	B. O. Lenoir.
Block Island, Rhode Island	30.44	773.2	30.40	773.7	34.0	1.1	100	ne.	36	16.1			10 n		ne.	0.44	11.2	light rain	J. T. Elker.
Boise City, Idaho	27.22	691.4	30.18	766.6	14.0	—10.0	74	calm	0	0		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	30.38	771.6	30.54	775.7	30.0	— 1.1	82	e.	27	12.1			10 s		e.	0.05	1.3	cloudy	O. B. Cole.
Brownsville, Texas	29.94	760.5	30.00	762.0	67.0	19.4	93	e.	7	3.1			10 s			0	0	cloudy	John McGlone.
Buffalo, New York	29.48	748.8	30.27	768.8	25	— 3.9	94	ne.	7	3.1			10 n			inap.	inap.	light rain	Wm. Finn.
Buford, Fort, Dakota	28.07	713.0	30.28	769.1	—27.4	—33.0	100	calm	0	0		5 c	0			inap.	inap.	fair	A. Schneider.
Cairo, Illinois	29.78	756.4	30.20	767.1	43.0	6.1	96	n.	6	2.7			10 s		n.	0.02	0.5	threatening.	W. H. Ray.
Canby, Fort, Washington Ter	29.86	758.4	30.06	763.5	31.3	— 0.4	85	ne.	20	8.9		0	0			0	0	clear	J.H.Young.
Cape Henry, Virginia	30.25	768.3	30.27	768.8	43.0	6.1	100	w.	4	1.8			fg.			inap.	inap.	dense fog	A. K. Alderson.
Cape May, New Jersey	30.26	768.6	30.29	769.4	43.3	6.3	93	ne.	10	4.5			10 n			0.71	18.0	light rain	W.E.Smith.
Cape Mendocino, California	29.38	746.2	30.08	764.0	32.2	0.1	68	ne.			1		10 s			inap.	inap.	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.28	769.1	30.30	769.6	66.0	18.9	97	e.	3	1.3		1 c	0	s.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	61.0	16.1	98	calm	0	0		4 cs	fg			0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.35	745.5	30.24	768.1	60.6	15.9	89	sw.	7	3.1			10s;fg		sw.	0.11	2.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.30	745.7	30.22	767.6	58.0	14.4	96	nw.	2	0.9			10m;fog			1.69	42.9	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.77	603.7	30.04	763.0	8.2	—13.2	80	e.	4	1.8		hz.	hz.			0	0	dense haze	E. McGovern.
Chicago, Illinois	29.44	747.8	30.19	766.8	37.0	2.8	74	se.	1	0.4			10 s			0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.24	768.1	30.26	768.6	44.0	6.7	100	n.	13	5.8			10n;fg		ne.	0.66	16.8	light rain	C. F. Dickens
Cincinnati, Ohio	29.55	750.6	30.24	768.1	43.0	6.1	100	ne.	1	0.4			10 s		ne.	0.02	0.5	cloudy	L.Dunne.
Cleveland, Ohio	29.48	748.8	30.27	768.8	30.0	— 1.1	100	n.	2	0.9			fg.			0	0	dense fog	W.Line.
Columbus, Ohio	29.35	745.5	30.25	768.3	37.5	3.1	88	n.	2	0.9			10 n			0.01	0.3	light rain	F.T. Williams.
Concho, Fort, Texas	28.10	713.7	30.12	765.0	43.2	6.2	100	ne.	4	1.8			10m;fog			0.01	0.3	light rain	C. E. King.
Custer, Fort, Montana	26.86	682.2	30.22	767.6	—24	—31.1	68	se.	4	1.8		0	2 s			0.03	0.8	clear	W.J.Daily.
Davenport, Iowa	29.51	749.5	30.21	767.3	31.3	— 0.4	76	w.	4	1.8			10 s		nw.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.13	638.3	30.09	764.3	45.2	7.3	75	se.	8	3.6		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.31	719.1	30.13	765.3	13	—10.6	91	ne.	5	2.2		9 k	0			0	0	cloudy	H.S.Blandford.
Deadwood, Dakota	25.26	641.6	30.18	766.6	— 2.0	—18.9	83	calm	0	0		2 c	0			0.03	0.8	clear	G.Kingsbury.
Delaware Breakwater, Del.	30.29	769.4	30.31	769.9	39.1	3.9	100	ne.	16	7.2			10m;fog		ne.	0.49	12.4	light rain	G.A.Martin.
Denver, Colorado	24.49	622.0	30.01	762.2	24.4	— 4.2	72	s.	6	2.7			10 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.28	743.7	30.25	768.3	12	—11.1	61	n.	5	2.2			10 s		n.	0.10	2.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.52	749.8	30.27	768.8	35.0	1.7	89	calm	0	0			10 n			0.05	1.3	light rain	N.B.Conger.
Dodge City, Kansas	27.26	692.4	30.00	762.0	30.7	— 0.7	94	se.	9	4.0			10s;fg			inap.	inap.	cloudy	J.E.Lanouette.
Dubuque, Iowa	29.42	747.3	30.18	766.6	27	— 2.8	80	calm	0	0			10 s			0.05	1.3	cloudy	J. Harvey Smith
Duluth, Minnesota	29.33	745.0	30.14	765.5	7.0	—13.9	76	ne.	4	1.8			10 n			0.14	3.6	light snow	E.R.Brace.
Eastport, Maine	30.63	778.0	30.70	779.8	12.0	—11.1	70	ne.	27	12.1		3 c	3 s	w.	ne.	0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.18	690.4	30.08	764.0	31.8	— 0.1	100	se.	5	2.2			10 s			0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.22	666.0	30.10	764.5	44.0	6.7	68	w.	2	0.9		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.49	749.0	30.26	768.6	32.0	0.0	83	ne.	1	0.4			10 s			inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.47	748.5	30.19	766.8	15.5	— 9.2	83	se.	8	3.6			10 n		s.	0.07	1.8	light snow	L.M.Pindell.
Fort Smith, Arkansas	29.52	752.3	30.12	765.0	42.2	5.7	92	e.	4	1.8			10 s			0.03	0.8	cloudy	J. B. Campbell.
Galveston, Texas	30.03	762.7	30.07	763.8	66.2	19.0	99	s.	6	2.7			fg.		s.	0.01	0.3	dense fog	E. O'C. Macinerney
Grand Haven, Michigan	29.49	749.0	30.20	767.1	24.0	— 4.4	88	ne.	4	1.8			10 s		ne.	0.02	0.5	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.16	639.1	30.02	762.5	41.4	5.2	75	nw.	4	1.8		0	8 s		nw.	0.05	1.3	cloudy	Chas. A. Read.
Hatteras North Carolina	30.26	768.6	30.28	769.1	62.8	17.1	100	sw.	7	3.1			fg.			0	0	dense fog	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.88	657.3	30.23	767.8	-13	-25.0	63	w.	4	1.8		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	28.79	731.3	30.31	769.9	-18.0	-27.8	100	nw.	11	4.9		0	0			0.09	2.3	clear	S. W. Glenn.
Indianapolis, Indiana	29.34	745.2	30.19	766.8	38.0	3.3	86	e.	2	0.9			10 s; fg		e.	0.05	1.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.01	762.2	30.04	763.0	57.2	14.0	99	ne.	6	2.7			10 s			0	0	cloudy	I. A. Reed.
Jacksonville, Florida	30.24	768.1	30.29	769.4	62.4	16.9	92	calm	0	0		7 k	0	se.		inap.	inap.	fair	J. W. Smith.
Keokuk, Iowa	29.50	749.3	30.20	767.1	30.5	-0.8	85	calm	0	0			10 s			inap.	inap.	cloudy	F. Z. Gosewisch.
Key West, Florida	30.18	766.6	30.20	767.1	71	21.7	76	e.	7	3.1		0	6 k		e.	inap	inap.	fair	A. W. Browne.
Kittyhawk, North Carolina	30.26	768.6	30.28	769.1	60.3	15.7	92	sw.	12	5.4			10 s		sw.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.17	740.9	30.25	768.3	58	14.4	98	calm	0	0			10n; fg			1.08	27.4	light rain	J. A. Cody.
La Crosse, Wisconsin	29.34	745.2	30.18	766.6	23	-5.0	73	s.	4	1.8			10 s			0.03	0.8	cloudy	S. C. Emery.
Leavenworth, Kansas	29.26	743.2	30.20	767.1	24.2	-4.3	73	n.	4	1.8			10 s			0.06	1.5	cloudy	T. S. Outram.
Lewiston, Idaho	29.36	745.7	30.23	767.8	6.0	-14.4	76	se.	2	0.9		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.80	756.9	30.13	765.3	44.0	6.7	93	n.	4	1.8			10 s			1.02	25.9	cloudy	W. U. Simons.
Los Angeles, California	29.68	753.9	30.08	764.0	41.7	5.4	78	ne.	8	3.6		5 cs	0	nw.		0.18	4.6	fair	T. S. Collins.
Louisville, Kentucky	29.63	752.6	30.22	767.6	46.0	7.8	93	n.	2	0.9			fg.			0.20	5.1	dense fog	L. M. Dey.
Lynchburg, Virginia	29.56	750.8	30.28	769.1	47.0	8.3	86	ne.	3	1.3			10 n		ne.	0.61	15.5	light rain	Jno. Healy.
Mackinaw City, Michigan	29.46	748.3	30.16	766.1	18.0	-7.8	83	e.	1	0.4			10 s			0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.27	768.8	30.28	769.1	56.9	13.8	100	sw.	4	1.8			fg.			0.01	0.3	dense fog	William Daly.
Maginnis, Fort, Montana	25.49	647.4	30.24	768.1	1.1	-17.2	72	n.	15	6.7		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.40	746.7	30.18	766.6	18.0	-7.8	84	s.	4	1.8			10 n			0.02	0.5	light snow	J. Gilligan.
Memphis, Tennessee	29.78	756.4	30.13	765.3	48.5	9.2	100	se.	10	4.5			10 n			0.91	23.1	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.38	746.2	30.18	766.6	34.3	1.3	82	sw.	5	2.2			10 s			0.07	1.8	cloudy	S. W. Rhode.
Mobile, Alabama	30.15	765.8	30.19	766.8	65.3	18.5	95	s.	7	3.1			fg.			0	0	dense fog	H. U. Jones.
Montgomery, Alabama	29.96	761.0	30.20	767.1	65	18.3	93	s.	4	1.8			10k; ks		sw.	0.10	2.5	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.17	740.9	30.27	768.8	-10.2	-23.4	100	n.	7	3.1		0	0			inap.	inap	clear	H. Bessant.
Mt. Washington, N. H.	23.95	608.3	30.57	776.5	19.5	-6.9	74	nw.	24	10.7		3 cs	4 s	nw.	nw.	0.01	0.3	fair	Edwd. A. Beals.
Nashville, Tennessee	29.59	751.6	30.20	767.1	46.5	8.1	96	e.	3	1.3			10 n		e	0.46	11.7	heavy rain	L. N. Jesunofsky
New Haven, Connecticut	30.32	770.1	30.44	773.2	30.7	-0.7	100	ne.	15	6.7			10 n		ne.	0.22	5.6	light rain	J. H. Sherman.
New London, Connecticut	30.42	772.7	30.46	773.7	32.5	0.3	100	ne.	15	6.7			10 n		ne.	0.20	5.1	light rain	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.16	766.1	69.2	20.7	96	s.	4	1.8			fg.			0.01	0.3	dense fog	M. Herman.
New York, New York	30.24	768.1	30.43	772.9	33.1	0.6	87	ne.	20	8.9			10n; fg			0.34	8.6	light rain	H. J. Penrod.
Norfolk, Virginia	30.22	767.6	30.25	768.3	48.0	8.9	86	n.	4	1.8			10 s			0.04	1.0	cloudy	Wm. Davis.
North Platte, Nebraska	27.05	687.1	30.15	765.8	7.4	-13.7	80	calm	0	0			10 s			0.01	0.3	cloudy	J. J. Mc Lean.
Olympia, Washington Ter	30.00	762.0	30.04	763.0	27.5	-2.5	70	s	7	3.1			10 s			0	0	cloudy	J. Dascomb
Omaha, Nebraska	29.00	736.6	30.27	768.8	6.8	-12.3	81	calm	0	0			10 s			0.20	5.1	cloudy	A. Pollak
Oswego, New York	29.99	761.7	30.34	770.6	29.3	-1.5	79	se.	8	3.6			10 s			0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.52	749.8	30.10	764.5	46.8	8.2	92	ne.	3	1.3			10 n			0.23	5.8	light rain	P. T. Jenkins.
Pensacola, Florida	30.18	765.6	30.21	767.3	66.3	19.1	99	se.	1	0.4			fg.			0	0	dense fog	M. McGauran.
Philadelphia, Pa.	30.27	768.8	30.38	771.6	37.0	2.8	100	ne.	16	7.2			10 n		ne.	0.29	7.4	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.35	440.7	30.07	763.8	0.0	-17.8	83	sw.	16	7.2			10 n			0.02	0.5	light snow	H. Hall.
Pittsburg, Pennsylvania	29.39	746.5	30.25	768.3	41.5	5.3	92	n.	4	1.8			10 n		n.	0.03	0.8	light rain	O. D. Stewart
Poplar River, Montana					-33.9	-36.6	100	w.			1	0	0			0	0	clear	G. A. Carden.
Port Huron, Michigan	29.53	750.0	30.26	768.6	24.0	-4.4	73	calm	0	0			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	30.60	777.2	30.65	778.5	18.0	-7.8	67	ne.	19	8.5		2 ck	3 s	s.	ne.	0.03	0.8	fair	W. W. Eichelberger.
Portland, Oregon	30.04	763.0	30.12	765.0	20.0	-6.7	84	calm	0	0		0	0			0	0	clear	M. L. Hearn.
Prescott, Arizona	24.66	626.4	30.02	762.5	33.0	0.6	90	sw.	7	3.1		0	5 s		sw.	inap.	inap.	fair	N. D. Lane.
Provincetown, Mass.	30.50	774.7	30.53	775.4	31.1	-0.5	81	ne.	15	6.7			10 n			0.17	4.3	light hail	O. N. Kitchel.
Red Bluff, California	29.81	757.2	30.18	766.6	28	-2.2	96	n.	6	2.7		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.80	756.9	30.05	763.3	71.0	21.7	89	se.	4	1.8			10 ks		se.	0	0	cloudy	L. G. Schultz.
Rochester, N. Y.	29.60	751.8	30.31	769.9	24	-4.4	94	e.	10	4.5			10s; fg		e	inap.	inap.	threatening	E. W. McGann.
Roseburg, Oregon	29.56	750.8	30.13	765.3	22	-5.6	84	calm	0	0		0	0			0	0	clear	J. J. Naury.
Sacramento, California	30.08	764.0	30.15	765.8	34.0	1.1	94	se.	2	0.9		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	30.55	776.0	30.21	767.3	37.5	3.1	85	ne.	5	2.2			10 n			0.02	0.5	light rain	J. H. Weber.
St. Michael, Fort, Alaska	30.37	771.4	30.41	772.4	6	-14.4	100	sw			1		10 s			0	0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.26	743.2	30.19	766.8	5.6	-14.7	60	sw.	10	4.5			10 s		w.	0.07	1.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.33	745.0	30.30	769.6	-17	-27.2	77	sw.	4	1.8		0	0			0.03	0.8	clear	C. B. Dilley
Salt Lake City, Utah	25.00	650.2	30.16	766.1	13.3	-10.4	46	calm	0	0		0	0			0.04	1.0	clear	J. Craig.
San Diego, California	29.98	761.5	30.05	763.3	50.0	10.0	77	ne.	5	2.2		0	8 k		w.	0.04	1.0	cloudy	F. R. Day.
Sandusky, Ohio	29.53	750.0	30.25	768.3	34	1.1	78	e.	1	0.4			10 s			0.06	1.5	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.38	771.6	30.41	772.4	34.3	1.3	99	e.	30	13.4			10 n		e.	0.45	11.4	light rain	V. P. Chappel.
Sanford, Florida	30.21	767.3	30.26	768.6	61.0	16.1	93	calm	0	0		0	fg.			inap.	inap.	dense fog	J. B. Marbury
San Francisco, California	30.06	763.5	30.13	765.3	40.0	4.4	85	e.	3	1.3		0	0			0.05	1.3	clear	N. Gorom.
Savannah, Georgia	30.19	766.8	30.28	769.1	60.5	15.8	87	s.	4	1.8		3 c; ck	fg.	sw.		0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.44	671.6	30.29	769.4	6	-14.4	76	w.	4	1.8		9 k	0			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.85	758.2	30.03	762.7	51.2	10.7	99	e.	5	2.2			10 n			2.07	52.6	light rain	E. N. Meekins.
Sitka, Alaska	30.26	768.6	30.33	770.4	22.5	-5.3	80	e.	8	3.6		0	0			0	0	clear	F. W. Fickett.
Smithville, North Carolina	30.24	768.1	30.28	769.1	59.8	15.4	94	s.	9	4.0		7 cs	0			0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	30.14	765.5	3.5	-15.8	83	calm	0	0			10 s			0	0	cloudy	D. Moore.
Springfield, Illinois	29.47	748.5	30.20	767.1	37.3	2.9	91	se.	2	0.9			10 s			0.03	0.8	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.92	683.8	30.04	763.0	53.0	11.7	93	calm	0	0		6 cs	0			0	0	fair	J. W. Byram.
Tatoosh Id., Wash. Ter	29.86	758.4			32.6	0.3	93	se.	2	0.9			10 n		se.	0.09	2.3	light snow	R. Connor.
Thomas, Camp, Arizona	27.25	692.1	30.08	764.0	41.2	5.1	82	calm				0	4 s			0	0	fair	R. C. Lord.
Toledo, Ohio	29.51	749.5	30.25	768.3	34	1.1	90	se.	2	0.9			10 s			0.02	0.5	threatening	A. Buell.
Unalaska, Alaska	30.13	765.3	30.15	765.8	40	4.4	82	se.	16	7.2			10 n		se.	0.15	3.8	light rain	Samuel Applegate.
Vicksburg, Mississippi	29.87	758.7	30.14	765.5	62.5	16.9	93	sw.	1	0.4			10n; fg			1.66	42.2	light rain	C. Dill.
Washington, D. C.	30.23	767.8	30.35	770.9	38.5	3.6	95	ne.	5	2.2			10 n		ne.	0.47	11.9	light rain	T. B. Harrison.
West Las Animas, Colorado	25.81	655.6	29.93	760.2	2	-16.7	100	nw.	7	3.1		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.24	768.1	30.30	769.6	61.0	16.1	96	calm	0	0			fg.			inap.	inap.	dense fog	L. H. Albrecht.
Yankton, Dakota	28.84	732.5	30.26	768.6	-11.6	-24.2	78	nw.	4	1.8		2 c	0	nw.		0.23	5.8	clear	E. H. Thompson.
Yuma, Arizona	29.88	758.9	30.03	762.7	47.1	8.4	64	ne.	4	1.8		0	2 s		sw.	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.15	740.4	29.17	740.9	23.5	-4.7	95	n.	29	13.0			10 n		nw.	0	0	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.					78	25.6		ne.			3	0	6 ks		ne.	0	0	cloudy	W. H. Jackson.
Bogota, U. S. C.	21.99	558.6			55.4	13.0	83	n.	4	2		2 ck	7 k	sw.	se.	0	0		Joaquin Gomez.
Chimo, Fort, Ungava	30.55	776.0	30.72	780.3	-34	-36.7	100	sw.	26	11.6		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.08	764.0	68.3	20.2	81	n.	1	0.4		0	2 s		ene.	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	29.98	761.5	29.95	760.7	79	26.1	82	e.			1	5 ck	2 s	e.		0.050	1.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.95	760.7	79	26.1	89	s.			1	0	9 ks		s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	90	ne.			1	0	6 ks		ne.	0	0	cloudy	Earl Flint.
York Factory, B. A.	29.94	760.5	30.02	762.5	-33.0	-36.1		s.	14	6.3		1 c	0	sw.		0	0		Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.93	760.2	29.94	760.4	78.1	25.6	76	n.		13.0	5.8		9 ck	0	n.		0	0	fair	P. Fasiant.
Naos, Bay of Panama	29.90	759.4	29.97	761.1	73.4	23.0	84	n.			4	2 ck	0	n.		0	0	clear	Antonio Fabre.

Vessels with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.																		
S. S. Alvo, Petit Goave, Hayti, W.I*	30.07	763.8	74	23.3		ene.			3		4		calm	0	0			fine.
S. S. Alleghany, near Barnegat, N.J†.	30.38	771.6	42	5.6		ene.			6		10		s.	h'vy	h'vy	long	e.	stormy.
S. S. Ailsa, N. 18° 17′, W. 74° 25′			78.2	25.7	83	ene.			1		2		ne.	0	0	sm'h		clear.
Schr. Arthur Burton, Savannah, Ga†	30.27	768.8				calm			0					0	0			smoky.
S. S. Alps, Arroyo, Porto Rico W.I			80	26.7		nne.			1		1		nne.	rain	rain	short		clear.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W.I†	30.14	765.5	66	18.9		nne.			2		3		ese.	0	0			clear.
S. S. Anchoria, N. 49° 23′, W. 36° 23′						wsw.			7		5?		w.	shr's	shr's	con.		cloudy.?
S. S. British Crown, N. 51° 15′, W. 15° 00′ †	29.39	746.5	51	10.6		sw.			6		7		sw.	0	0			
S. S. Caracas, La Guayra, Venezuela *†	30.00	762.0	75.5	24.2	86	ne.			3				ene.	0	0	mod.	ne.	overcast.
S. S. Canada, (Fr.) N. 47° 11′, W. 43° 03′	29.71	754.6	35.6	2.		w.			6		s.		w.	0	0	h'vy	w.	overcast.
S. S. Chalmette, N. 27° 13′, W. 86° 38′ *†.	30.13	765.3	74	23.3		ese.			6		6		se.	0	0	mod.	se.	fair.
S. S. Devonia, N. 51° 12′, W. 34° 57′†	29.12	739.6	44	6.7		ssw.			6		10		ssw.	5 h'r	5 h'r	short	ssw.	cloudy.
S. E. J. Spicer, N. 37° 52′, W. 35° 00′	30.37	771.4	60	15.6	94	w.			4		10		nw.	0	0	mod.	nne.	cloudy.
S. S. England, New York, N. Y.						ne.			4		10		ne	0	0			overcast.
S. S. Grecian, Glasgow, Scotland	29.81	756.9	39	3.9	82	e.			1		10		s.	0	0			hazy.
S. S. Hermann, N. 41° 50′, W. 62° 13′.	30.42	772.7	37.4	3.0	83	ne.			5		10		n.	5 h'r	5 h'r	mod	nne.	cloudy.
S. S. Iowa, N. 47° 43′. W. 36° 11′			49	9.4		wsw.			7		10		wsw.	6 h'r	6 h'r	r'gh	wsw.	cloudy.
Bg. L & W. Armstrong, N. 30° 47′, W. 73° 05′ *†	30.42	772.7				ne.			1		3		ne.	0	0	long	ene.	fine
S. S. Lone Star, N. 34° 15′. W. 75° 55′*†	30.33	770.4	72	22.2		sw.			2		5			0	0	mod.	e.	fair.
S. S. Marengo, N. 49° 48′ W. 34° 05′ *†	29.06	738.1	49	9.4		ssw.			8		8		ssw.	1 h'r	1 h'r	high	sw.	raining.
S. S. Neckar, N. 43° 44′, W 46° 22′	30.11	764.8	46.0	7.8	92	var.			6–7		7		w.	rain	rain	r'gh	w.	cloudy.
S. S. Orinoco, N. 36° 30′ W. 71° 30′			54	12.2		e.			3		1g.			4 h'r	4 h'r	light	e.	foggy
S. S. Oregon, (Br.) N. 49° 01′, W. 31° 47′*	29.43	747.5	52	11.1		sw.			4		8		wsw.	4 h'r	4 h'r	mod.	sw.	cloudy.
S. S. Ohio, (Am) N. 51° 07′, W. 15° 15′			47	8.3	100	sw.			5		10		wsw.	7 h'r	7 h'r	mod.	sw.	rainy.
S. S. Pennsylvania, Liverpool, Eng			43	6.1	92	ese.			2		8		se.	1 h'r	1 h'r			misty.
S. S Polynesian, N. 51° 49′, W. 26° 31′			44	6.7		w.			1		10		wsw.	0	0	mod.	nw.	overcast.
S. S. Rhein, N. 49° 52′, W. 8° 22′						s.			5		5		s.	0	0	mod.	s.	hazy.
S. S. Rhynland, Antwerp, Belgium	29.93	760.2	48	8.9	92	s.			3		2		s.	0	0			clear.
S. S. Republic, N. 42° 09′, W. 61° 42 *†	30.45	773.4	38	3.3		ne.			6		9		n.	sh'rs	sh'rs	mod	n.	cloudy.
S. S. Switzerland, N. 47° 50′, W. 31° 50′*†	29.50	749.3				wnw.			6		10		sw.	0	cross	wsw.		cloudy.
S. S. Samaria, N. 44° 10′, W. 48° 30′	30.07	763.8	40	4.4		wnw.			6		10		nw.	10 h'r	10 h'r	r'gh	wnw.	cloudy.
S. S. Scythia, N. 47° 17′, W. 38° 57′	29.64	752.8	53	11.7		wsw.			6		10		wsw.	5 h'r	5 h'r	h'vy	wsw.	hazy.
S. Salisbury, N. 23° 07′, W. 69° 06′	30.11	764.8	74.1	23.4	86	ne.			6		6 kn		ne.	1 h'r	1 h'r	r'gh	ne.	fair.
Bk. Tuck Sing, N. 35° 27′, W 75° 10′*†	30.26	768.6				wsw.			3		0			0	0	long	se.	clear.
S. S. Valencia, N. 37° 54′, W. 73° 07′ †	30.27	768.8	57	13.9	75	s.			1					7 h'r	7 h'r	light	s.	dense fog.
S. S. Belgenland, N. 47° 28′, W. 34° 11′			51	10.6	93	nw.			6				nw.	hail	hail	mod.	wnw.	cloudy.
S. S. State of Georgia, N. 53° 17′, W. 24° 16′†	29.35	745.5	42	5.6		nw.			3		10			4 h'r	4 h'r	r'gh	var.	overcast.
Schr. Adda Doane, Kingston, Jamaica, W. I†	30.07	763.8				calm			0		3		ne.	0	0			clear.
Bg. Alcira, Maracaybo, Venezuela*	29.99	761.7	79	26.1		nne.			2		2		ne.	0	0			hazy.
S. S. British Prince, N. 38° 47′ W. 75° 04′			46	7.8		ene.			5		10		ne.			r'gh	ne.	foggy.
Bk. Chas. Stewart, N. 35° 58′, W. 82° 20′*†	30.19	766.8				sw.			4		2		w.	0	0	mod.	se.	clear.
Bk. Cato, N. 40° 25′, W. 51° 04′†	30.42	772.7	61	16.1	88	n.			3		8		ne.	0	0	mod.	sw.	cloudy
S. S. D. J. Foley, N. 32° 53′, W. 73° 45′*†	30.33	770.4	68	20.0	79	s.			2		0			0	0	sm'h	se.	cloudy.
S. S. Gellert, N. 49° 15′, W 34° 10′			65	18.3	89	w.			6		10			4 h'r	4 h'r	light	w.	overcast
S. S. Labrador, N. 50° 25′, W. 15° 25′ *†	29.45	748.0	50.0	10		ssw.			6		10		sw.	¼ hr	¼ hr	r'gh	sw.	covered.
S. S Habsburg, N. 44° 20′, W. 51° 53′						nnw.			6		9		nw.	10 h'r	10 h'r	long	nw.	overcast.
S. S. Pavonia, N. 40° 45′, W. 63° 11′	30.42	772.7	50	10.0	86	ene.			6		10		ene.	12 h'r	12 h'r	mod.	e.	raining.
S. Parker M. Whitmore, N. 41° 24′, W. 32° 38′ *†	30.20	767.1	63	17.2		wsw.			6		5		nw.	0	c	short	w.	fair.
S. S. Vaderland, N. 49° 52′, W. 8° 13′			52	11.1		ssw.			4		5		sw.	0	0	mod.	nw.	overcast.
S. S. Wieland, N. 50° 09′, W. 17° 00′*.	29.25	742.9	58	14.4		nnw.			5–6		10		var.	3 h'r	3 h'r	r'gh	var.	misty
S. S. W. A. Scholten, N. 49° 40′, W. 24° 37′	29.40	746.7	42.8	6	100	w.			8		9		w.	12 h'r	12 h'r	8	wsw.	squally.
S. S. Westphalia, N. 50° 11′, W. 17° 46′	29.19	741.4	52	11.1	86	w.			5		2		sw.	4 h'r	4 h'r	h'vy	w.	clear.
S. S. Reliance, N. 2° 04′, W. 47° 50′			77.5	25.3		ene.			6		10						wnw.	raining.
S. S. Nurnberg, N. 41° 38′, W. 47° 30′	30.29	769.4	57.2	14.0		nnw.			1		10		nw.	1½ hr	1½ hr	mod.	w.	cloudy.
U. S. Navy Yard, Portsmouth, N. H*			20	— 6.7	85	nne.	25	11.2			10		se.	c	o			cloudy
U. S. S. Alliance, Turk's Id, Bahamas, W.I	30.07	763.8	75	23.9	81	ne.			2		8		ne.	light	light	sm'h		cloudy.
U. S. S. Kearsarge, Naples, Italy	30.25	768.3	56	13.3	81	ssw.			1		2							clear.
U. S. S. Lancaster, Naples, Italy	30.26	768.6	57	13.9	94	calm			0		2			0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.47	773.9	33	0.6	100	ne.			4		10					sm'h		raining.
U. S. S. Quinnebaug, Leghorn, Italy	30.14	765.5	55	12.8	81	ene.			1		8		sw.			sm'h		fair.
U. S. S. Swatara, Kingston, Jamaica, W. I	30.04	763.0	74	23.3	76	n.			1		2		n.	0	0	sm'h		clear.
U. S. S. Tennessee, mouth Mississippi river	30.16	766.1	68	20.0	95	s.	6	2.7			8		calm	0	0			foggy.
U. S. S. Trenton, Naples, Italy	30.24	768.1	60	15.6	76	sw.			1		5		w.					fair.
U. S. S. Vandalia, Curacao, W.I	30.00	762.0	76	24.4	82	ne.			2		2		calm					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.30	769.6	64	17.8	78	ssw.			2		2		ssw.					d. clouds.
H. M. S. Alecto, N. 13° 35, W. 16° 51′	29.95	760.7	72	22.2		n.			3		10					4	nnw.	overcast.
H. M. S. Boadicea, N. 13° 07′, W. 17° 13′	29.96	761.0	72	22.2	80	n.			3		3		nne.			2	nne.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.32	770.1	65	18.3	89	ene.			3		5		e.					d. clouds.
H M. S. Himalaya, N. 35° 15′, W. 8° 31′	30.15	765.8	61	16.1	77	wsw.			4		2		ese.			2	ssw.	d. clouds.
H. M. S. Monarch, N. 35° 50′, E. 14° 50′	30.24	768.1	61	16.1	82	sw.			2		4					1	ssw.	d. clouds.
H. M. S. Minotaur, Cagliari, Sardinia	30.18	766.6	55	12.8	87	calm			0		1	wsw.						misty.
S. S. Lord Clive, N. 42° 04′. W. 59° 00′						nne.			5		10		var.	5 h'r	5 h'r	sl't	w.	cloudy.
S. S. Prussian, N. 42° 44′, W. 63° 13′	30.59	777.0	32	0.0		ne.			5		8		ne.	9 h'r	9 h'r		ne.	cloudy.
S. S. Scandinavian, Glasgow, Scotland	29.71	754.6	36	2.2		s.			3		9							misty.
S. S. Dorian, N. 46° 40′, W. 45° 16′			30	— 1.1		nw.			7		10		n.	6 h'r	6 h'r	r'gh	nnw.	heavy gale.
S. S. Llandaff City, N. 43° 35′, W. 48° 42′			32	0.0		nw.			6		10		nw.	4 h'r	4 h'r	high	nw.	overcast.
S. S. Bothnia, N. 51° 27′, W. 9° 14′	29.67	753.6	55	12.8	93	s.			3		10		s.	3 h'r	3 h'r	sm'h		misty.
S. S. Hevelius, N. 30° 06′, W. 18° 15′ *†	30.12	765.0	60	15.6		sw.			3		7?		wsw.	2 h'r	2 h'r	sm'h		clear.?
S. S. Rosse, N. 35° 34′, W. 12° 00′	30.12	765.0	59.5	15.3	79	sw.			3		0			0	0	long	nw;w	fine.
S. S. Archimede, (It) Messina, Sicily			64?	17.8?		se.			3		2		se.	0	0			clear.
S. S. Picqua, N. 39° 47′, W. 70° 30′ *†	30.35	770.9	40	4.4		nnw.			6				ene.	8 h'r	8 h'r	short	ene.	cloudy.
S. S. Dominion, N. 46° 56′ W. 44° 19′			37	2.8		w.			6		10		w.			r'gh	wnw.	cloudy.
S. S. Denmark, N. 40° 32′, W. 66° 10′ †	30.42	772.7	41	5.0	91	ene.			6		10		ene.	24 h'r	24 h'r	rg'h	ene.	drizzling.
S. S. Erin, N. 48° 36′, W. 31° 08′ †	29.40	746.7	50	10.0		sw.			5		9		wsw.	8 h'r	8 h'r	r'gh	wsw.	drizzling.
S. S. Leipzig, N. 38° 27′, W. 13° 02′*	30.07	763.8	57.0	13.9	90	nne.			2		5		nne.	0	0	long	nne.	fair.
S. S. City of Augusta, Savannah, Ga						calm			0		2			0	0			foggy.
S.S. Waesland, Antwerp, Belgium	29.94	760.5	47	8.3		s.			4		10			0	0			overcast.
S. S. Westernland, Sandy Hook, N. J	30.41	772.4	38	3.3	90	ne.			6		10		ne.	20 h'r	20 h'r	mod.	ne	rainy.
S. S. Zaandam, N. 40° 39′, W. 66° 14′			54.7?	12.6?	88	ene.			6		10			4 h'r	4 h'r	h'vy	ene.	hazy.
S. S. State of Nebraska, N. 42° 01′, W. 59° 32′			39	3.9		ne.			6		10		ne.			sm'h		cloudy.
S. S. State of Nevada, N. 50° 58′, W. 34° 13′			37	2.8		wnw.			6		8		wnw.	3 h'r	3 h'r	high	wnw.	cloudy.
S. S. Saxon, Philadelphia, Pa*†	30.40	772.1	30	— 1.1		ene.			1		10			0	0			threatening.
S. S. Celtic, Liverpool, Eng†						wsw.			5		10		w	10 h'r	10 h'r			fine.
S. S. Lepanto, N. 33° 00′. E. 26° 35′	30.16	766.1	59	15.0		wnw.			2		2		nw.	0	0	mod.	n.	clear.
S. S. Romano, N. 43° 52′, W. 33° 01′	30.01	762.2	62	16.7		wnw.			5		6		wnw.	0	0	h'vy	w.	hazy.
S. S. Salerno, N. 41° 45′, W. 66° 30′†	30.50	774.7	36	2.2		e.			4		10		e.	0.5	13.	mod.	e.	raining.
S. S. Antonio Lopez, Cadiz, Spain	30.11	764.8				w.			3	8c				0	0			squally.
Bgt. Achsah, N. 39° 50′, W. 64° 30′	30.37	771.4	55	12.8		ene.			5		10		ene.			r'gh	ene.	light rain.
S. Armenia, N. 49° 28′, W. 6° 30′ *	29.87	758.7	55	12.8	87	s.			4		5		ssw.	0	0		w.	hazy.
Bk. Adelaide, N. 28° 35′, W. 37° 37′			71	21.7		ene.			5		5		e.	3 h'r	3 h'r	long	ne.	showery.
Bk. Benjamin Dickerman, N. 30° 15′, W. 77° 00′*†	30.32	770.1	70	21.1		e.			4		10		e.	0	0	long	ene.	cloudy.
Bk. Bayonnaise, N. 35° 58′, W. 80° 30′			59.9	15.5		wnw.			4		5		w.	0	0	sm'h	w.	fair.
S. Dora, N. 56° 07′, W 26° 27′†	29.15	740.4	35.6	2.0		ssw.			2		10		ssw.	8 h'r	8 h'r	long	w.	overcast.
S. David Stewart, N. 7° 30′, W 48° 54′†	30.05	763.3	78	25.6		ene.			6		4		ne.	sh'rs	sh'rs	mod	ene.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Schr. Edith R. Seward, N. 34° 20′, W. 66° 12′†	30.33	770.4	70	21.1	.....	se.	.....	.....	1	.....	4	.....	se.	0	0	long	ese.	clear.
Bk. Fred. W. Carlon, Progreso roads, Mexico	.....	.....	80	26.7	.....	e.	.....	.....	5	.....	.....	.....	e.	0	0	sm'h	e.	clear.
Bk. Gloire, N. 20° 00′, W. 42° 00′*	30.08	764.0	.....	.....	.....	e.	.....	.....	6	.....	6?	.....	ene.	0	0	short	e.	clear.?
Bk. George Davis, N. 33° 31′, W. 69° 26′*†	30.29	769.4	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	sw.	0	0	mod.	e.	fair.
S. Hedwig, N 41° 10′ E. 18° 27′	30.26	768.5	57.6	14.2	84	nnw.	.....	.....	1	.....	3	.....	nnw.	0	0	sm'h	.....	clear.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.17	766.3	63	17.2	.....	se.	.....	.....	2	.....	8	.....	w.	0	0	.....	.....	
S. Henry, N, 38° 45′. E 7° 52*	30.21	767.3	57.6	14.2	.....	ese.	.....	.....	3–4	5 c	0	.....	.....	.....	.....	2–3	ese.	hazy.
Schr. John L. Thomas, South Hobbies Cays, C. A †	30.00	762.0	76	24.4	73	ene.	.....	.....	2	.....	1	.....	e.	0	0	.....	.....	clear.
Bg. John Welsh, jr., N. 29° 25′. W. 88° 10′	.....	.....	.....	.....	.....	se.	.....	.....	2	.....	10?	.....	se.	.....	.....	sm'h	se.	clear.?
Bg. Lilian, N 18° 03′. W. 59° 20′†	30.05	763.3	78	25.6	.....	e.	.....	.....	1	.....	2	.....	.....	0	0	mod.	ne.;e.	clear.
S. S. Laurel, Key West, Fla†	30.19	766.8	70	21.1	.....	e.	.....	.....	2–3	.....	8	.....	ese.	sh'rs	sh'rs	.....	.....	cloudy.
Bg. L. F. Munson, N. 36° 45′, W. 56° 50′*†	30.54	775.7	66	18.9	.....	wsw.	.....	.....	4	.....	3	.....	nw.	0	0	long	nw.	fair.
S. S. Madrid, Shields, Eng †	29.75	755.6	43	6.1	92	s.	.....	.....	2	.....	10	.....	s.	3 h'r	3 h'r	.....	.....	overcast.
Schr. Minnie A. Bonsall, Jacksonville, Fla*†	30.26	768.6	71?	21.7?	.....	s.	.....	.....	2	.....	.....	.....	sw.	.....	.....	.....	.....	fair.
Schr. Norena, Fajardo, Porto Rico, W. I†	29.99	761.7	.....	.....	.....	wnw.	.....	.....	1	.....	3	.....	nne.	4 h'r	4 h'r	.....	.....	showery.
S. S. Radnorshire, N. 34° 42′, E. 22° 20′*†	30.22	767.6	.....	.....	.....	nnw.	.....	.....	6	.....	5	.....	nnw.	0	0	mod.	nnw.	fair.
S. Stephen D. Horton, N. 49° 12′, W. 8° 38′†	29.87	758.7	.....	.....	.....	s.	.....	.....	5	.....	7	.....	s.	0	0	mod.	nw.	fair.
Bk. Silica, N. 40° 40′, W. 34° 30′	.....	.....	.....	.....	.....	w.	.....	.....	6	.....	10	.....	w.	0	0	mod.	n.	cloudy.
Bg. Teneriffe, N. 23° 50′, W. 80° 55′	30.26	768.6	.....	.....	.....	e.	.....	.....	6	.....	5	.....	ese.	0	0	2	ese.	
S. S. City of Alexandria, Havana, Cuba, W. I*†	30.11	764.8	74	23.3	.....	ese.	.....	.....	5	.....	.....	.....	.....	.....	.....	mod.	e.	squally.
S. S. Maasdam, N. 49° 09′, W. 27° 05′*	29.43	747.5	50.0	10	.....	sw.	.....	.....	5	.....	.....	.....	.....	.....	.....	high	sw.	cloudy.
S. S. Strathleven, N. 42° 09′, W. 47° 39′*	30.26	768.6	44.0?	6.7?	92	nw.	.....	.....	5	.....	10	.....	.....	.....	.....	3	nw.	raining.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	30.08	764.0	68	20.0	64	wnw.	.....	.....	3	.....	8	.....	sw.	.....	.....	.....	.....	cloudy.
H. M. S. Amethyst, Montevideo, Uruguay	29.93	760.2	66	18.9	59	wnw.	.....	.....	3	.....	4	s.	.....	.....	.....	1	w.	misty.
H. M. S. Opal, Simons Bay, Cape Colony	30.06	763.5	72	22.2	62	se.	.....	.....	4	.....	3	se.	.....	.....	.....	.....	.....	d. clouds.
H. P. M. S. Rainha de Portugal, Cabinda, Guinea	29.84	758.0	84.6	29.2	77	wsw.	.....	.....	3	.....	2	.....	.....	0	0	2	.....	blue sky.
H. P. M. S. Bengo, S. 6° 08′. E. 9° 04′	29.96	760.9	83.3	28.5	92	sw.	.....	.....	2	.....	0	.....	.....	0	0	2	sw.	blue sky.
Bk. Celestina, S. 1° 03′ W 25° 19′*†	29.94	760.5	.....	.....	.....	se.	.....	.....	3	.....	8	.....	s.	0	0	mod.	nnw.	
S. S. George S. Homer, S. 48° 06′ W. 41° 14′*†	29.18	741.2	.....	.....	.....	ssw.	.....	.....	4	.....	2	.....	ssw.	2 h'r	2 h'r	rg'h	var.	squally.
Bk. Godeffroy, S. 16° 42′, W. 29° 58′	30.00	762.0	85.6	29.8	71	se.	.....	.....	2	.....	5 k	.....	se.	rain	rain	mod.	e.	fair.
S. Grecian, S. 53° 17′, W. 56° 40′†	29.67	753.6	44	6.7	68	sw.	.....	.....	3	.....	10	.....	sw.	0	0	cross	var.	cloudy.
S. Henry Falling, S. 47° 23′, W. 46° 51′*†	29.62	752.3	48	8.9	92	sse.	.....	.....	6	.....	8	.....	sse.	rain	rain	cross	ssw.	cloudy.
Bk. Horace Scudder, St. Paul de Loando, Benguela*†	30.10	764.5	82	27.8	.....	wsw.	.....	.....	2	.....	2	.....	w.	0	0	.....	.....	clear.
Bkt. Levanter, Montevideo, Uruguay*	30.03	762.7	62	16.7	.....	w.	.....	.....	4	.....	1	.....	wsw.	0	0	sm'h	.....	clear.
S. St. David, S. 6° 11′, W. 27° 25′*†	30.02	762.5	84	28.9	75	ese.	.....	.....	4	.....	7	.....	ese.	0	0	light	e.	cloudy.
Bk. Winifred, S. 20° 49′, W. 35° 25′*†	30.00	762.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	nne.	0	0	.....	nne.	
S. Orealia, S. 24° 58′, W. 27° 50′*	29.91	759.7	.....	.....	.....	var.	.....	.....	1	.....	2	.....	e.	½ h'r	½ h'r	long	sw.	clear.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 22° 48′. E. 143° 18′	30.02	762.5	72	22.2	90	nnw.	.....	.....	1	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Essex, Canton, China	30.34	770.6	53	11.7	51	n.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Hartford, N. 6° 27′, W. 119° 40′	29.84	757.9	79	26.1	91	ne.	.....	.....	4	.....	2?	.....	ne.	0	0	sm'h	n.;e.	cloudy.?
U. S. S. Juniata, Shanghai, China	30.48	774.2	30	— 1.1	100	nw.	.....	.....	3	.....	2	.....	.....	0	0	.....	.....	clear.
U. S. S. Monocacy, Shanghai, China	.....	.....	29	— 1.7	66	sse.	.....	.....	2	.....	5	.....	nw.	.....	.....	.....	.....	fair.
U. S. S. Palos, Tientsin, China	30.33	770.4	20	— 6.7	.....	ssw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Ranger, Corinto, Nicaragua	29.99	761.7	76	24.4	77	e.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
H. M. S. Audacious, Victoria harbor, Hong Kong, China	30.27	768.8	55	12.8	68	n.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.31	769.9	53	11.7	80	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	2	.....	blue sky.
H. M. S. Champion, Shanghai, China	30.47	773.9	29	— 1.7	.....	calm	.....	.....	0	.....	10?	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Magpie, N. 5° 25′, E. 100° 20′	29.93	760.2	79.7	26.5	83	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	raining.
H. P. M. S. Tamega, Macao, China	30.33	770.4	53.6	12.0	65	n.	.....	.....	3	.....	5	.....	sw.;ne.	0	0	.....	.....	d. clouds.
S. S. Newbern, N. 35° 36′, W. 121° 20′	.....	.....	52	11.1	73	nw.	.....	.....	3	.....	0	.....	.....	0	0	mod.	nw.	clear.
S. S. Oceanic, N. 41° 58′, E. 167° 33′	29.97	761.2	40	4.4	73	ne.	.....	.....	3	.....	6	.....	se.	0	0	5	n.	fair.
S. S. Oregon, N. 39° 21′, W. 123° 51′†	30.18	766.6	44	6.7	100	e.	.....	.....	3	.....	8	.....	s.	.....	.....	light	nw.	squally.
S. S. Alameda, N 37° 29′, W. 125° 50′†	30.12	765.0	46	7.8	.....	var.	.....	.....	3	.....	6	.....	nne.	shr's	shr's	mod.	nnw.	fair.
S. S. Ancon, Point Loma, Cal	30.00	762.0	54	12.2	74	nne.	.....	.....	2	.....	9	.....	w.	0	0	sm'h	wsw.	cloudy.
S. S. City of Chester, Hookton, Calif	30.11	764.8	43	6.1	83	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	
S. S. Queen of the Pacific, Port Townsend, Wash. Ter	.....	.....	33	0.6	89	ne.	.....	.....	4	.....	4?	.....	ne.	0	0	.....	.....	overcast?
S. S. State of California, Portland, Oregon†	30.20	767.1	20	— 6.7	85	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Eureka, N. 44° 58′, W. 124° 15′*†	30.16	766.1	37	2.8	62	e.	.....	.....	1	.....	0	.....	.....	10 h'r	10 h'r	r'gh	nw.	clear.
S. S. City of Rio de Janeiro, Yokohama, Japan †	29.82	757.4	.....	.....	.....	calm	.....	.....	0	.....	3?	.....	wsw.	.....	.....	sm'h	.....	cloudy.?
S. S. Colima, N. 21° 19′, W 106° 02 †	29.97	761.2	74	23.3	72	sse.	.....	.....	3	.....	3	.....	ese.	0	0	small	nnw.	clear.
S. S. Granada, N. 15° 18′, W. 93° 07′†	29.93	760.2	73	22.8	81	ne.	.....	.....	1	.....	0	.....	.....	0	0	mod.	.....	clear.
S. S. San Blas, Panama, Panama†	29.84?	757.9?	74	23.3	90	nw.	.....	.....	3	.....	4	.....	w.	0	0	.....	.....	fair.
S. Carondelet, N. 16° 54′, E. 133° 07′*†	30.06	763.5	.....	.....	.....	nne.	.....	.....	2	.....	5	.....	w.	0	0	sm'h	se.	fair.
S St. Francis, N. 1° 30′, W. 115° 40′*†	29.92	760.0	76	24.4	82	sse.	.....	.....	2	.....	5	.....	ne.	0	0	sm'h	se.	fair.
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru *†	30.01	762.2	71	21.7	100	se.	.....	.....	1	.....	10	.....	se.	.....	.....	mod.	w.	misty.
U. S. S. Wachusetts, Callao, Peru*	29.98	761.5	71	21.7	100	sse.	.....	.....	1	.....	10	.....	calm	.....	.....	sm'h	.....	overcast.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	30.43	772.9	55	12.8	68	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.20	767.1	58.3	14.6	88	e.	.....	.....	3	.....	10	.....	.....	.....	.....	sm'h	.....	raining.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	30.05	763.3	60	15.6	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Australia, S. 22° 53′, W. 174° 55′	29.93	760.2	73	22.8	85	nne.	.....	.....	9	.....	10	.....	nne.	h'vy	h'vy	hv'y	n.	threatening.
S. Ismir, S. 38° 19′, W. 91° 22′*†	30.25	768.3	.....	.....	.....	sw.	.....	.....	2	.....	4	.....	sw.	0	0	long	sse.	fair.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.91	759.7	66	18.9	.....	nw.	.....	.....	2	.....	8	nw.	.....	.....	.....	2	nw.	
H. M. S. Sylvia, off Sandy Point, Patagonia	29.55	750.6	52	11.1	86	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, S. 31° 17′, E. 32° 54′	30.21	767.3	73	22.8	72	ene.	.....	.....	3	.....	8	.....	.....	0	0	light	e.	cloudy.
H. M. S. Euryalus, Suakin, Egypt	29.99	761.7	72	22.2	85	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tourmaline, Tamatave, Madagascar	29.93	760.2	83	28.3	79	s.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Port Phillip, S. 35° 00′, E. 138° 13′	29.96	761.0	75	23.9	56	s.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	cloudy.

International Chart I. February 8, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 9, 1884,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.14	765.6	63.7	17.6	78	se.			1		0			0	0	clear	Roziere.
Algiers			30.18	766.5	63.3	17.4	57	w.			5		5			0	0	cloudy	Thève.
La Calle			30.17	766.2	67.3	19.6	56	nnw.			1		2			0	0	fair	Fonfrède.
Tunis			30.19	766.8	54.7	12.6	70	nw.			4		4			0	0		Delord.
Geriville					62.6	17.0	18	sw.			1		2			0	0	fair	Forfert.
Laghouat			30.39	771.8	65.1	18.4	82	nw.			1		0			0	0	clear	Abraham.
Biskra			30.31	769.9	59.4	15.2	72	w.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.99	761.7	87.9	31.1	29	ese.	6	2.7			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.82	757.4	30.10	764.5	63	17.2	89	calm	2	0.9			9		calm	0.02	0.5		Com. J. Shortt, R.N.
Melbourne, Victoria	29.95	760.7	30.04	763.0	64.1	17.8	99	sw.	10	4.5			10			0	0	dense fog	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.51	749.5	30.07	763.8	43.9	6.6	66	e.			2		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.24	742.6	30.04	763.0	32.2	0.1	87	wsw.	0	0			10			0	0		Dr. Wierzbiski
Eperies	29.17	740.9	30.08	763.9	40.6	4.8	80	calm			0		10			0	0		Julius Mikolik.
Gratz	28.80	731.4	30.09	764.3	36.5	2.5	86	sw.			3		10			0	0		Andreas Rospini.
Hermannstadt	28.62	726.9	30.09	764.3	41.9	5.5	64	se.			1		7			0.016	0.4		Prof. A. Gottschling
Kremsmunster, Obs'y	28.65	727.7	30.05	763.2	34.2	1.2	78	ene.			1		10			0	0		The Staff.
Lemberg	29.09	738.8	30.11	764.7	39.9	4.4	76	se.			1		2			0	0		Dr. T. Stanecki.
Pola	30.02	762.5	30.13	765.4	49.5	9.7	83	ese.			2		7			0	0		I. R. Hydrographic Office.
Szathmar	29.56	750.9	30.04	762.9	45.9	7.7	75	e.			3		6			0	0		Joseph Midlinszky, S. J
Szegedin	29.78	756.5	30.08	763.9	36.7	2.6	96	w.			1		10			0	0		Karl Stancel.
Trieste	30.08	764.0	30.18	766.5	44.6	7.0	94	calm			0		10			0.031	0.8		Royal Academy.
Vienna	29.36	745.7	30.11	764.7	33.8	1.0	92	calm			0		10			0.008	0.2		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.49	723.6	29.89	759.1	45.0	7.2	100	sw.			1		3			0.039	1.0		
Brussels	29.57	751.1	29.77	756.2	51.1	10.6	79	sw.			3	3			sw.	0.008	0.2		
Furnes	29.69	754.2	29.71	754.7	53.4	11.9	79	ssw.			1		4			0.024	0.6		
Maeseyck	29.67	753.5	29.79	756.7	48.9	9.4	86	ssw.			1		10			0	0		
British.																			
Aberdeen	28.90	734.0	29.00	736.6	44.7	7.1	90	sse.	36	16.1			10			0.160	4.1	raining	W. Boswell.
Bidston, Liverpool Obs'y			29.16	740.7	50.0	10.0	86	sse.	24	10.7			10					overcast	John Hartnup.
Bolton, Sharples	28.67	728.2	29.20	741.7	48.2	9.0	89	ssw.	30	13.4			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	28.83	732.3	29.23	742.4	49.9	9.9	80	s.			5		10					drizzling	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.01	762.2	30.04	763.0	79	26.1	70	ne.			4		3					blue sky	Corp'l C. McGregor, A.H.C
Cardington					48.6	9.2	94	sw.			7.0		10					overcast	John McLaren.
Chatham, School M. E.	29.39	746.5	29.57	751.1	50.1	10.1	87	s.			4		10					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory					50.8	10.4	96	ssw.			6		10					raining	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.68	753.9	29.91	759.7	80	26.7	96	n			2		2					d. clouds	J. W. Smith.
Galway, Queen's College	29.90	759.4	29.94	760.5	50	10.0	86	sw.			4		5			0.12	3.0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.14	765.5	30.19	766.8	64.0	17.8	89	w			2		0					blue sky	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.36	745.7	29.53	750.0	50.6	10.3	80	sw.					10					overcast	The Staff.
Guernsey	29.25	742.9	29.55	750.6	49.5	9.7	96	ssw.			2		10					raining	A. Collenette, F.R.M.S
Kew, Observatory	29.48	748.8	29.52	749.8	50.5	10.3	80	ssw.	30	13.4			10					raining	The Staff.
Leicester, Museum	29.10	739.1	29.35	745.5	50.6	10.3	86	sw.			3		10					overcast	J. C. Smith.
Malta, Mediterranean	30.11	764.8	30.18	766.6	65.8	18.8	69	sw.			2		1			0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.19	766.8	30.23	767.8	73.2	22.9	77	ne.			2		3					blue sky	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.21	741.9	29.44	747.8	49.3	9.6	91	sse.			6		10					showery	The Staff.
Plymouth	29.32	744.7	29.39	746.5	50.8	10.4	95	ssw.			5		10					raining	John Merrifield.
Sandwick Manse, Orkneys	28.71	729.2	28.81	731.8	44	6.7	92						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.07	763.8	30.13	765.3	48.2	9.0	78	sw.			1		2					d. clouds	W. H. Lyne.
Sheffield	29.00	736.6	29.28	743.7	50.8	10.4	86	sw.			3		10					raining	W. F. Cooper.
Sillioth Rectory	29.00	736.6	29.03	737.3	48.7	9.3	96	s.			6		10			0.220	5.6	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.20	741.7	48.2	9.0	87	s.	39	17.4			10			0.297	7.5	raining	Rev. S. J. Perry.
Strathfield Turgiss					49.3	9.6	94	sw.			3.6		10					raining	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	28.91	734.3	28.94	735.1	48.7	9.3	71	sw.	45	20.1			6					misty	The Met'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.74	755.4	30.13	765.3	61.2	16.2	79	sw.	5.6	2.5		0	0			0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.29	769.4	30.34	770.6	6.0	—14.4		sw.	5	2.2			10 n			0.300	7.6	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.31	769.9	30.36	771.1	13	—10.6	100	e.	2	0.9			10 n		calm	0.100	2.5	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.30	769.6	30.37	771.4	4	—15.6	100	w.	1	0.4			10 n		w.	0.06	1.5	cloudy	G. A. Blair.
Cornwall, Ontario	29.85	758.2	30.05	763.3	18.4	— 7.6	97	e.			1		10 n			0.030	0.8	hailing	Jas. Smith, M. A.
Dalhousie, N. B	30.30	769.6	30.35	770.9	1.5	—16.9		e.			2		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.16	766.1	30.18	766.6	12	—11.1	91	s.	2	0.9			10 n			0.10	2.5	cloudy	J. McWilliams
Fort Garry, Manitoba*	29.57	751.1	30.56	776.2	—19	—28.3	100	calm	0	0			10 ks			0	0	fair	James Stewart.
Fredericton, N. B	30.31	769.9	30.38	771.6	4.9	—15.1	90	n.	1	0.4			10 s			0.060	1.5	overcast	Prof. Thos. Harrison.
Grand Manan, N. B	30.24	768.1	30.30	769.6	27	— 2.8	88	se.	8	3.6			10 k			0.06	1.5	dense haze	J. Chipman Seeley
Granton, Ontario	28.89	733.8	30.04	763.0	32.1	0.1	97	calm	0	0			10 n			inap.	inap.	hailing	Jas. Grant.
Halifax, N. S*	30.20	767.1	30.33	770.4	23	— 5.0	100	n.	6	2.7			10 k			0.150	3.8	cloudy	A. Allison.
Hamilton, Ontario	29.63	752.6	30.05	763.3	34.2	1.2	95	ne.			1		10 n			0.180	4.6	raining	Geo. Dickson, B. A.
Kingston, Ontario*	29.81	757.2	30.17	766.3	25	— 3.9	88	ne.	5	2.2			10 k			0.02	0.5	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.23	767.8	30.27	768.8	20.0	— 6.7	100	ne.	2	0.9		10 c	0			inap.	inap.	overcast	C. H. Rigby.
London, Ontario	29.16	740.7	30.10	764.5	32.8	0.4	99	calm			0		10 ks			0.03	0.8	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.94	709.7	30.60	777.2	—15	—26.1	81	nw.	0	0		10 cs	0			0.01	0.3	cloudy	John Ewart.
Minnedosa, N. W. T	28.29	718.6	30.54	775.7	—17	—27.2	100	w.	2	0.9		0	2 s		w.	0	0	hazy	Rev. J. M. Wellwood.
Montreal, Quebec*	29.90	759.4	30.13	765.3	14	—10.0	96	se.	1	0.4			10 n			0.18	4.6	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	29.87	758.7	30.11	764.8	18.6	— 7.4	95	e.					10 s			0.09	2.3	foggy	A. McGill, M. A.
Parry Sound, Ontario*	29.33	745.0	30.06	763.5	26	— 3.3	92	e.	2	0.9			10 n		e.	0.36	9.1	light snow	Rev. R. Mosley.
Peterboro, Ontario	29.24	742.7	30.02	762.5	23.3	— 4.8	85	calm			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.65	753.1	30.45	773.4	— 6	—21.1	95	w.	3	1.3		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.30	744.2	30.01	762.2	34	1.1	100	nw.	2	0.9			10 n			0.14	3.6	light rain	H. Morgan.
Port Stanley, Ontario	29.36	745.7	30.03	762.7	33	0.6	96	ne.	2	0.9			fg.			0.13	3.3	light rain	M. Payne.
Qu Appelle, N. W. T	27.91	708.9	30.57	776.5	—19	—28.3		sw.	8	3.6		8 cs	0		calm	0	0	fair	Leslie Gordon.
Quebec, Quebec*	29.80	756.9	30.19	766.8	12	—11.1	83	calm	0	0			10 s			0.10	2.5	light snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.61	752.1	30.11	764.8	14	—10.0	83	calm	0	0			10 n			inap.	inap.	light snow	W. H. McIntyre.
St. Andrews, N. B	30.24	768.1	30.29	769.4	17	— 8.3	93	e.	3	1.3			10 n			0.10	2.5	cloudy	
St. John, N. B	30.17	766.3	30.32	770.1	11.0	—11.7	90	n.	8	3.6			10 n			0.060	1.5	foggy	G. Hutchinson.
St. Pierre, N. F			30.39	772.0	24.8	— 4.0		sw.			2								The Commandant.
Saugeen, Ontario*	29.29	744.0	30.04	763.0	32	0.0	92	calm	0	0			10 s			0.30	7.6	heavy snow	
Stratford, Ontario	28.67	728.2	30.00	762.0	33.0	0.6	97	calm	0	0			10 s			0.800	20.3	raining	W. McBride, M.A.
Sydney, C. B*	30.34	770.6	30.41	772.4	14	—10.0	96	n.	1	0.4			10 n			0.02	0.5	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers.
Canadian.—Continued.																			
Toronto, Ontario*	29.64	752.8	30.04	763.0	32	0.0	96	e.	1	0.4			10 n			0.46	11.7	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.95	735.3	30.06	763.5	33.6	0.9	96	nw.	4	1.8			10 n			inap.	inap.	raining	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.23	767.8	30.30	769.6	28	— 2.2	84	calm	0	0			10 s		ne.	0.06	1.5	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.27	768.8	30.30	769.6	75.0	23.9	84	ssw.				0	0			0.020	0.5	fine	I. Garfelt.
Cape Town, The Castle	29.84	757.9			88.0	31.1	43	sse.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.86	707.6			96	35.6	37									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.85	758.2	29.93	760.1	64.0	17.8	87	sw.			1	0						clear	Samuel Redolez.
Iquique	29.89	759.2	29.92	759.9	68.9	20.5	85	sw.			2							foggy	Rafael Moreno.
Niebla	29.56	750.9	29.67	753.6	56.1	13.4	88	nw.			1		4		nw.	0	0	cloudy	Federico Köhling.
Punta Caldera	29.85	758.1	29.93	760.3	66.2	19.0	79	sw.			1	5 c		sw.				fair	Manuel Tobar.
Punta Corona	29.85	758.3	30.04	763.0				se.			1		10			0	0	misty	Francisco Alvarado.
Valparaiso	29.81	757.2	29.95	760.7	63.3	17.4	91	se.			0	0	0					clear	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.46	773.6	30.48	774.2	28.9	— 1.7	92	nne.	1.6	0.7		0	0			0	0	clear	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.79	756.7	29.84	757.9	39.9	4.4	90	s.	11	5.			7						Oversergent Fischer.
Fanöe	29.67	753.6	29.69	754.1	44.1	6.7	88	sse.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.79	756.7	29.84	757.8	—13.7	—25.4	100	nw.			4		10						S. Kleinschmidt.
Ivigtut, Greenland	29.51	749.6	29.53	750.1	— 9.6	—23.1		ne.			4		3						
Jacobshavn, Greenland	29.78	756.5	29.83	757.7	—24.5	—31.4		s.			4		8						
Stykkisholm, Iceland	28.90	734.0	28.94	735.1	21.6	— 5.8	87	ne.			7		8						A. O. Thorlacius.
Thorshavn	28.58	725.9	28.60	726.5	45.0	7.2	93	sse.	16	7			10					raining	Overloerer Bergh.
Upernavik, Greenland	29.81	757.2	29.86	758.4	—23.1	—30.6		e.			2		1					misty	
Vestervig	29.59	751.6	29.68	753.9	41.5	5.3	96	se.			6		10					foggy	Loerer Oesterbol.
Egyptian.																			
Cairo	29.94	760.5			62.6	17.0		sw.	4.3	1.9			10			0	0	covered	Albert Ismalun.
French.																			
Agen, Normal School	29.41	746.9	30.06	763.4	55.4	13	88	sw.			1		8 kn	s.	nw.	0.83	21.		M. Labroue, Director.
Alençon, Normal School	29.24	742.7	29.79	756.7	50.9	10.5	93				1		10 n			0.094	2.4	covered	M. Nicot, Director.
Arras, Normal School	29.48	748.8			52.7	11.5	76	ssw.			1		8			0	0	very cloudy	M. Ungerer, Director.
Avignon, Normal School	29.93	760.1	30.00	762.1	54.3	12.4	79	e.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.37	746.1	29.93	760.2	51.1	10.6	77	sse.			2		8		sw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.54	750.2	29.80	757.0	51.8	11.0	75	ssw.			4		8		sw.	0.043	1.1	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.08	738.7	29.91	759.8	52.7	11.5	50	s.			1	c			n.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.70	754.3	29.96	761.0	57.4	14.1	76	ssw.			1		5			0.110	2.8	cloudy	M. Rayet, Director.
Bourges, Normal School	29.41	747.1	29.96	761.0	56.1	13.4	97	sw.			4	ck	n		sw.	0.012	0.3		M. Sauvageot, Director.
Brest, Naval Observatory	29.38	746.3	29.63	752.5	51.8	11.0	97	sw.			6		10		sw.	0.031	0.8	raining	M. de Kermarée, Dir.
Caen, Normal School	29.62	752.4	29.70	754.3	54.7	12.6	93	w.			1		5		w.	0.16	4.	raining	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.59	751.5	29.91	759.7	51.6	10.9	86	ne.			6		5			0.043	1.1	cloudy	M. Jadot, Director.
Charleville, Normal School	29.52	749.9	29.85	758.1	52.9	11.6	72	se.			1		0			0	0	clear	M. Noël, Director.
Clermont-Ferrand Obs'y	28.61	726.8	29.98	761.4	50.7	10.4	79	wnw.			1		10		sw.	0.055	1.4		M. Allnard, Director.
Cluny, Normal School	29.20	741.7	30.01	762.2	53.8	12.1	78						2	ne.		0	0	slightly cl'dy	M. de Villemontée, Dir.
Commercy, Normal School	29.07	738.4	29.95	760.7	50.0	10	78	wsw.			4		8 kn	wsw.	wsw.	0.051	1.3	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.50	698.6	30.08	764.0	45.5	7.5	75	calm			0		6 n			0.04	1.		M. Jarach, Director.
Grénasque, du Rhone	28.89	733.8	30.02	762.6	52.3	11.3	75	se.			2		9		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.26	743.2	30.04	763.1	46.0	7.8	80	ese.			1		cn		ne.	0	0		M. Allard, Director.
Guéret, Normal School	28.35	720.0	29.91	759.8	50.0	10.	81	sw.			1		cn		sw.	0.08	2.		M. Delorme, Dir.
Lescar, Normal School	29.43	747.6	30.00	761.9	62.2	16.8	55	ene.			1		0			0.138	3.5	clear	M. Ohauvin, Director.
Lorient, Naval Observatory	29.60	751.7	29.70	754.3	52.2	11.2	80	ssw.			4		10		s.	0.472	12.0	raining	Lt. T. Oarré, Director.
Lyon, St. Genis-Laval	28.92	734.5	29.97	761.3	55.9	13.3	65	s.			4		5 n		wsw.	0	0	cloudy	M. André, Director.
Mans, Normal School	29.50	749.3	29.81	757.1	53.2	11.8		ssw.			4		10			0.020	0.5	covered	M. Richard, Director
Marseille, Observatory	29.75	755.6	30.02	762.4	57.2	14.0	69	e.			2		10		s.	inap.	inap.	sprinkling	M. Stephan, Director.
Montlouis	24.79	629.6	29.63	752.6	42.4	5.8	58	nw.	9.4	4.2			7	nw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.86	758.5	29.97	761.3	51.1	10.6	86	n.			2		5		w.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.16	740.7	29.95	760.7	48.6	9.2	84	s.			1		n		sw.	0.071	1.8		M. Hasse, Director.
Nantes, Observatory	29.69	754.0	29.85	758.1	54.5	12.5	86	ssw.			4		10 n;kn		sw.	0.098	2.5		M. Larocque, Director.
Perpignan, Observatory	29.89	759.2	30.00	762.1	56.8	13.8	73	ne.	7.4	3.3			10		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.11	536.3			22.8	— 5.1		w.			1		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.98	736.1	30.07	763.7	47.8	8.8	97						n		n.	0	0		M. Tailleu.
Puy de Dôme Obs'y, Summit	25.05	636.3			34.5	1.4	100	wsw.			6		10			0.024	0.6	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.90	759.4	29.93	760.2	57.6	14.2	76	s.			2		0			1.54	39.	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.64	752.8	29.85	758.2	56.1	13.4	73	wsw.			1				sw.	0	0		M. Brotier, Director.
Rodez, Normal School	27.86	707.6	30.04	762.9	47.1	8.4		se.			1		5 ks		nw.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.73	755.1	29.78	756.3	53.6	12	80	sw.			1		5	s.		0.035	0.9	cloudy	M. Moullilot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.68	753.9	29.85	758.1	52.0	11.1	76	sse.			1			nw.	ssw.	0.043	1.1		M. Renou, Director.
Toulouse, Observatory	29.34	745.1	30.06	763.5	52.9	11.6	90	s.			1		10	s.		0	0	covered	M. Baillaud, Director.
Tours	29.69	754.0	29.87	758.6	55.0	12.8	72	s.			2		8	sw.	ssw.	0.004	0.1	very cloudy	M. de Tastes.
Versailles, Observatory	29.34	745.2	29.83	757.6	51.1	10.6	80	sw.			4		8			0.083	2.1	very cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.85	758.2	30.00	762.0	60.6	15.9	53	sw.	9.8	4.4		2 c;ck		wsw.		0.039	1.0		M. Cartier, Director.
German.																			
Ansbach	28.50	724.0	29.98	761.4	47.3	8.5	75	sw.			2		6	sw		0.031	0.8		Prof. Jnedt.
Bamberg	29.09	738.8	29.93	760.2	43.3	6.3	77	calm			0		10			0.039	1.0		Prof. Dr. Hoh.
Berlin	29.74	755.5	29.89	759.2	44.6	7.0	71	s.			2		1			0	0		Meteorological Institute
Breslau	29.47	748.5	30.00	762.0	39.2	4.0	72	ssw.			1		0			0	0	misty	Royal University Obs'y
Carlsruhe	29.49	749.0	30.03	762.8	49.5	9.7	80	sw.			1		10	sw.		0.031	0.8		Albert Senz.
Cassel	29.15	740.4	29.86	758.5	42.4	5.8	91	s.			2		8	s.		0.024	0.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.54	750.4	29.92	759.9	39.9	4.4	89	s.			1		10			0	0		Physical Society.
Friedrichshafen	28.58	725.9	30.03	762.8	42.1	5.6	91	sw.			1		6	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.74	755.4	29.83	757.7	43.5	6.4	86	se.			2		0			0	0	misty	E. Prefler.
Kiel	29.78	756.3	29.79	756.7	45.5	7.5	84	ssw.			2		4			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.49	749.0	29.91	759.8	48.2	9.0	78	ssw.			2		4	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.67	753.6	29.86	758.4	50.4	10.2	74	ssw.			2		1 s	sw.		0	0		Weather Observatory.
Memel	30.11	764.8	30.16	766.0	29.7	— 1.3	88	se			3		9 k						Isermann.
Munich	28.15	715.0	30.01	762.3	50.9	10.5	58	sw.			2		4	sw.		0.012	0.3		Central Station.
Neufahrwasser	30.02	762.6	30.04	763.0	37.6	3.1	90	se.			2		10	sw.		0	0		A. Lothes.
Neustadt, Palatinate	29.39	746.4	29.91	759.8	51.6	10.9	68	w.			1		10			0	0	foggy	Prof. Dicknether.
Stuttgart	28.99	736.3	29.88	759.0	51.8	11.0	75	sw.			1		7	w.		0.008	0.2		Prof. Dr. Schoder.
Wustrow	29.79	756.6	29.81	757.2	39.7	4.3	82	s.			5		8 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens																			Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.96	760.9	30.01	762.2	80.2	26.8	39	ssw.	10.0	4.5			8			0	0	d. clouds	
Deesa	29.50	749.3	29.98	761.5	77.8	25.4	11	nne.	8.0	3.6			6	w.	w.	0	0	d. clouds	
Bombay	29.89	759.3	29.93	760.3	75.3	24.1	49	nw.	17.0	7.6			0			0	0	blue sky	
Poona, Yarrowda	28.02	711.7	29.86	758.5	82.3	27.9	19	ne.	4.0	1.8			0			0	0	blue sky	
Belgaum	27.36	694.9	29.90	759.5	76.0	24.4	40	ssw.	8.0	3.6			1		e.	0.01	0.3	d. clouds	
Lahore	29.22	742.3	30.00	761.9	63.1	17.3	42	calm	0	0			0			0	0	blue sky	
Roorkee	29.01	736.8	29.93	760.3	66.8	19.3	24	w.					0			0	0	blue sky	
Agra	29.40	746.6	29.98	761.4	71.2	21.8	23	nw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.83	732.4	29.88	758.9	78.5	25.8	35	calm	0	0			3	sw.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.56	725.4	29.54	760.6	69.7	20.9	34	calm	0	0			2	W.		0	0	d. clouds	
Lucknow	29.56	750.9	29.95	760.8	69.3	20.7	26	wnw	4.0	1.8			0			0	0	blue sky	
Allahabad	29.62	752.2	29.94	760.4	69.5	20.8	42	calm	0	0			0			0	0	blue sky	
Patna	29.74	755.3	29.93	760.1	67.4	19.7	34	wnw.	2.8	1.2			0			0	0	blue sky	
Hazaribagh	29.87	758.7	29.94	760.4	64.5	18.1	22	w.	8.0	3.6			0			0	0	blue sky	
Cuttack	29.81	757.2	29.90	759.3	78.3	25.7	63	wsw.	6.0	2.7			6			0	0	d. clouds	
Calcutta, Alipore	29.88	758.9	29.90	759.5	68.5	20.3	77	sse.	5.0	2.2			6			0	0	d. clouds	
Dhubri	29.79	756.6	29.91	759.7	66.8	19.3	43	calm	0	0			8		sw.	0	0	d. clouds	
Chittagong	29.88	759.0	29.97	761.3	68.6	20.3	52	wsw.	2.5	1.1			4			0	0	d. clouds	
Sibsagar	29.63	752.6	29.98	761.5	59.8	15.4	82	e.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.53	724.8	30.02	762.5	67.2	19.6	41	n.	7.5	3.4			7	n.		0	0	d. clouds	
Zanzibar	29.83	757.6	29.85	758.2	81.7	27.6	65	nne	4.8	2.0			7			0	0	d. clouds	
Bellary	28.39	721.1			86.0	30.0	34	se.				3 ck	0			0	0	d. clouds	
Trichinopoly	29.66	753.4			86.8	30.4	34	ne.	0.2	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.74	755.4	30.17	766.2	42.8	6.0	79	calm	0	0			10			0	0		Prof. Giovanni Olodig.
Milan	29.62	752.4	30.16	766.1	42.8	6.0	88	se.	2.5	1.1			10	se.		0.055	1.4		Prof. G. V. Schiapparelli
Padua	30.00	762.0	30.11	764.9	41.2	5.1	84	nne.	3.1	1.4			10	e.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.20	741.6	30.13	765.4	44.4	6.9	85	ese.	0.7	0.3			10			0	0		Prof. F. F. Denza.
Genoa	29.89	759.3	30.09	764.3	52.9	11.6	69	ne.	3.1	1.4			10	se.		0.193	4.9		Prof. G. M. Garibaldi.
Pesaro	30.10	764.5	30.15	765.8	41.4	5.2	97	n.	6.9	3.1			10			0	0		Prof. Luigi Guidi.
Florence	29.85	758.1	30.11	764.7	52.3	11.3	67	se.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.95	760.7	30.02	762.5	52.2	11.2	77	ne.	5.6	2.5			10			0	0		Prof. P. Monte.
Rome	29.95	760.8	30.13	765.3	55.8	13.2	56	n.	0.7	0.3			10			0	0		Prof. P. Tacchini.
Lecce	29.85	758.3	30.11	764.9	56.8	13.8	59	sse.	3.1	1.4			8	se.		0.020	0.5		Prof. C. de Giorgi.
Cosenza	29.26	743.3	30.18	766.6	46.8	8.2	72	se.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.86	758.4	30.11	764.9	59.5	15.3	56	ne.	2.5	1.1			0			0	0		Prof. G. Cacciatore
Syracuse	30.07	763.7	30.11	764.9	57.9	14.4	80	ne.	2.5	1.1			8	ne.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.61	752.1	30.14	765.5	55.4	13.0	68	wsw.	1.3	0.6			4	nnw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.84	757.9	29.87	758.8	26.2	— 3.2	100	nw.			7		10k;ks		W.	0.063	1.6	cloudy	H. Hattori.
Awomori	29.76	755.9	29.80	756.9	22.3	— 5.4	56	wsw.	24.8	11.1		3 cs	7s;ks		sw.	0.183	4.6	overcast	K. Ogawa.
Hakodate	29.77	756.1	29.78	756.4	24.5	— 4.2	61	w.	12.6	5.6		3 c	0	w.		0	0	clear	Y. Souma.
Hamamatsu	29.99	761.7	30.09	764.2	32.0	0.0	67	w.			6	0	1 ks			0	0	clear	Sekigawa & Yamasaki.
Hiroshima, I. M. Obs'y	30.25	768.3	30.26	768.7	29.1	— 1.6	100	w.	4.4	2.0		0	2 s		W.	0	0	clear	Y. Okamoto.
Kagoshima	30.31	769.8	30.32	770.1	35.0	1.7	76	calm			0		9 s		nw.	0.173	4.4	cloudy	
Kanazawa	29.97	761.2	30.08	764.0	27.0	— 2.8	100	sw.	22.8	10.2			10 n			0.681	17.3	snowing	S. Endo.
Kioto	29.99	761.7	30.16	766.1	29.1	— 1.6	98	wsw.	4.4	2.0		0	0			0	0	clear	M. Tojima.
Kochi	30.21	767.3	30.23	767.8	32.3	0.2	85	w.	7.2	3.2		0	0			0	0	clear	K. Kusunose.
Miasaka	30.27	768.8	30.30	769.6	32.9	0.5	68	wsw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.74	755.4	29.85	758.2	25.0	— 3.9	59	calm	0	0			10 s			0	0	cloudy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.12	765.0	30.34	770.6	33.7	0.9	82	nw.	4.5	2.0			10 n			0.030	0.8	snowing	
Nemuro	29.61	752.1	29.66	753.6	18.0	— 7.8	56	calm	0	0		1 k	0			0	0	clear	A Shibuya.
Niigata	29.89	759.2	29.93	760.2	30.0	— 1.1	80	n.	11.4	5.1			10 n			0.215	5.5	light snow	Satoo & Tomikawa.
Nobiru	29.85	758.3	29.87	758.7	26.8	— 2.9	86	nw.	2.7	1.2			10 ks			0.040	1.0	covered	Yoshino & Midsushina.
Numadzu	29.95	760.7	29.99	761.7	36.0	2.2	59	sw.			6	0	0			0	0	clear	T. Ohgi.
Osaka	30.18	766.6	30.20	767.0	30.0	— 1.1	56	wnw.	14.6	6.5		0	0			0	0	clear	H. Omura.
Sakai	30.19	766.7	30.20	766.9	27.5	— 2.5	68	w.			4		10 n		w.	0.153	3.9	snowing	Yamawchi & Sakamoto.
Sapporo	29.65	753.0	29.72	754.8	18.5	— 7.5	83	s.	6.5	2.9			10 s			0.205	5.2	covered	S. Kimura.
Shimonoseki	30.12	765.0	30.26	768.7	33.3	0.7	88	nnw.			6		10 ks		w.	0.024	0.6	cloudy	S. Sakano.
Wakayama	30.16	766.1	30.22	767.5	32.1	0.1	46	var.	13.3	5.9		0	2cloks		w.	0.003	0.1	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.64	752.8	29.83	757.7	78.4	25.8	82	e.	5.5	2.5			9 ks;ku		ssw.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.32	617.7	30.11	764.8	48.6	9.2	75	n.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina.
Mazatlan	29.79	756.6	30.05	763.3	69.0	20.6	85	n.	0.9	0.4		3 cs	0	sw.		0	0	light haze	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.71	754.7	29.71	754.7	49.5	9.7		s.			4					0.024	0.6		
Groningen	29.74	755.3	29.79	756.7	45.7	7.6		s.								0	0		
Helder	29.68	753.8	29.68	753.8	45.3	7.4		s.			4					0.071	1.8		
Hellevoetsluis	29.74	755.3	29.74	755.3	51.1	10.6	83	sw.			3					0.031	0.8		
Utrecht	29.71	754.7	29.77	756.1	45.1	7.3	89	s.			2		10			0.004	0.1	covered	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	759.0			78.8	26.0	88	w.	0	0			9			0.035	0.9		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.37	745.9	29.43	747.5	42.8	6.0	70	s.	29	13			10			0.039	1.0		
Brono	29.33	745.0	29.37	746.0	41.0	5.0	42	s.			4		8			0	0		
Christiania	29.57	751.1	29.72	754.9	36.1	2.3	94	s.	9	4			10			0.008	0.2	raining	
Gjesvær	28.99	736.3	29.01	736.9	35.1	1.7		wsw.			9		10					raining	
Lodingen	29.13	740.0	29.18	741.2	39.6	4.2	79	sw.			9		10			0.504	12.8	raining	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.15	765.9	30.24	768.1	63.7	17.6	66	se.	6.3	2.8			3	n.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.87	758.7	30.21	767.3	57.6	14.2	81	sw.	18.1	8.1			4			0.059	1.5		The Staff.
Ponta Delgada, Azores	30.17	766.3	30.24	768.1	63.0	17.2	80	wnw.	13.0	5.8			3			0.031	0.8		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.02	762.5	30.06	763.4	68.7	20.4	69	ene.			5		3			0	0		
San Salvador, Congo	28.00	711.3	29.80	757.0	86.7	30.4	55	e.			2		3			0	0		
Serra da Estrella	25.32	643.0	30.18	766.6	36.9	2.7	92	w.			5		10			0.567	14.4		
RUSSIAN.																			
Akmolinski	29.01	736.9	30.19	766.9	9.9	—12.3	96	ssw.	11	5		8 ck	0			0.028	0.7		Major K. Lasarew.
Archangel	29.52	749.9	29.54	750.4	25.2	— 3.8	84	wsw.	18	8			10			0	0		Capt. Sselliwerstow
Ashurada	30.02	762.6	29.93	760.2	30.9	10.5	72	wnw.	11	5		0	3 k			0.299	7.6		
Astrakhan	30.05	763.2	29.97	761.2	39.0	3.9	78	wsw.	7	3			10			0	0		Capt. Wisganow.
Baku	30.04	763.1	30.00	761.9	42.1	5.6	82	n.	18	8			9k;ks			0	0	light clouds	Meteorological Office.
Barnaul	29.85	758.3	30.41	772.4	6.6	—14.1	68	sw.	13	6			5			blank	blank		
Bieloserskr	29.58	751.4	30.08	764.1	21.9	— 5.6	65	sw.	7	3			9 ks			0	0		Observatory.
Dorpat	29.92	760.0	30.18	766.5	28.4	— 2.0	78	ssw.	4	2		0	0			0.059	1.5		Meteorological Obs'y
Ekaterinburg	28.54	725.0	29.55	750.6	20.7	— 6.3	87	wsw.	9	4			10			0	0		
Elissawetgrad	29.73	755.1	30.20	767.1	36.1	2.3	68	nnw.	9	4		0	2 k			0	0		Observatory.
Kasan	29.40	746.8	29.69	754.0	21.7	— 5.7	80	nw.	7	3			10			0	0	light clouds	
Kem	29.56	750.8	29.61	752.1	29.1	— 1.6	60	w.	31	14			9 ks			0	0		Lagorio & Sastyrez.
Kertch	30.09	764.3	30.11	764.9	36.1	2.3	93	n.	4	2			10 n			0	0		Observatory.
Kieff	29.50	749.2	30.17	766.2	32.9	0.5	73	nnw.	4	2		0	1 ks			0	0	light snow	
Koslov	29.37	746.0	29.90	759.4	26.6	— 3.0	81	wnw.	11	5			10 s						R. I. Ssaweljew, Engin'r.
Lgov	29.53	750.0	30.15	765.8	25.0	— 3.9	77	nw.	22	10			10			0	0		
Liban	30.10	764.4	30.12	765.0	33.3	0.7	80	se.	11	5			1			0	0		[illegible] Quass
Lugan	29.78	756.5	30.00	761.9	33.4	0.8	71	nw.	22	10			8			0	0		Meteorological Obs'y
Moscow	29.60	751.8	30.11	764.8	24.6	— 4.1	70	n.	4	2		0	0			0.008	0.2		Meteorological Obs'y
Nertschinsk	28.04	712.3	30.67	779.0	— 9.4	—23.0	79	calm	0	0			0			0	0		
Nikolaiev	30.13	765.2	30.20	767.0	39.6	4.2	68	n.	9	4		0	0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor	29.84	757.9	29.93	760.1	—19.7	—28.7	71	w.	2	1	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.41	772.3	30.55	775.9	19.9	— 6.7	36	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Siang.
Petro-Alexandrovsk	29.81	757.1	30.17	766.4	42.4	5.8	33	e.	2	1	.....	.....	7	.....	.....	.....	.....	.....	Walter.
Petrozavodsk	29.75	755.6	29.96	760.9	26.1	— 3.3	74	w.	22	10	.....	0	0	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.71	754.5	30.23	767.8	30.6	— 0.8	94	e.	4	2	.....	0	5 ks	.....	.....	0	0	.....	
Poti	30.09	764.3	30.12	765.1	40.8	4.9	92	s.	9	4	.....	.....	10 n	.....	.....	.....	.....	raining.	
St. Petersburg	30.11	764.8	30.13	765.4	26.8	— 2.9	70	sw.	7	3	.....	0	0	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.69	703.2	30.26	768.6	35.6	2.0	55	e.	18	8	.....	0	0	.....	.....	.....	.....	.....	Dresch.
Semipalatinsk	29.78	756.3	30.50	774.8	9.5	—12.5	81	calm	0	0	.....	.....	1	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.94	760.5	30.16	766.1	42.3	5.7	80	n.	7	3	.....	.....	9 n	.....	.....	0	0	.....	
Starol Bykhov	29.65	753.1	30.24	768.0	31.5	— 0.3	60	ese.	7	3	.....	0	2 k	.....	.....	0	0	light clouds	Carl Hagen.
Tashkend, Laboratory	28.61	726.8	30.39	771.9	31.1	— 0.5	56	ne.	11	5	.....	.....	0	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	28.54	725.0	29.99	761.7	43.9	6.6	43	n.	18	8	.....	7 ck	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.82	706.6	30.57	776.5	12.6	—10.8	68	calm	0	0	.....	0	2 k	.....	.....	.....	.....	.....	Sariono.
Viatka	29.11	739.5	29.78	756.4	19.0	— 7.2	74	n.	9	4	.....	.....	6	.....	.....	0	0	.....	
Vladivostock	29.97	761.2	30.04	762.9	5.5	—14.7	65	n.	13	6	.....	.....	3 s	.....	.....	0	0	.....	
Warsaw	29.65	753.1	30.09	764.2	39.6	4.2	76	sse.	16	7	.....	0	2 ks	.....	.....	.....	.....	light clouds	Astronomical Obs'y.
Yeniseisk	29.80	756.8	30.10	764.6	17.6	— 8.0	83	w.	16	7	.....	.....	7	.....	.....	0.035	0.9	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.47	748.5	30.00	762.0	21.7	— 5.7	75	nw.	13.6	6.1	.....	1 c	0	.....	.....	0	0	clear	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.86	758.4	29.97	761.2	62.6	17.0	57	wsw.	.....	.....	.....	0	3 k	.....	.....	0	0	.....	B.J.Elin.
Bilbao, Met. Obs'y	29.93	760.1	29.98	761.6	63.0	17.2	42	w.	2.2	1.1	.....	2	1	n.	.....	0.051	1.3	almost clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.11	688.6	30.15	765.7	45.0	7.2	84	sw.	9.4	4.2	.....	.....	9	.....	.....	0.197	5.0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.92	709.2	30.20	767.0	49.6	9.8	73	w.	11.6	5.2	.....	0	6	.....	.....	0	0	misty	The Staff.
Murcia, Met. Obs'y	30.00	761.9	30.12	765.0	64.2	17.9	72	s.	1.6	0.7	.....	0	3	.....	.....	0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.01	736.8	29.91	759.8	51.4	10.8	98	s.	21.0	9.4	.....	.....	10	.....	.....	0.374	9.5	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.12	764.9	30.18	766.6	64.9	18.3	86	e.	0.4	0.2	.....	0	k;s	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.03	762.8	30.09	764.3	77.0	25.0	69	e.	1.1	0.5	.....	0	ks	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.19	766.9	30.29	769.4	60.8	16.0	85	wsw.	5.4	2.4	.....	0	5	.....	w.	0.011	0.3	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.95	760.8	30.04	763.1	73.8	23.2	89	se.	4.5	2.0	.....	3 s	5 k	.....	s.	0.307	7.8	d. clouds	Enrique Gaden, Chf Eng
SWEDISH.																			
Haparanda	29.53	750.1	29.57	751.1	25.9	— 3.4	91	sw.	.....	.....	4	.....	4	.....	.....	0	0	.....	
Umea	29.64	752.9	29.69	754.2	29.5	— 1.4	80	ssw.	.....	.....	4	.....	4	.....	.....	0	0	.....	
Hernosand	29.68	753.9	29.73	755.2	33.1	0.6	75	sw.	.....	.....	2	.....	4	.....	.....	0	0	.....	
Stockholm	29.79	756.6	29.97	761.1	35.2	1.8	71	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	29.89	759.1	29.95	760.6	36.3	2.4	82	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.83	757.6	29.91	759.8	32.4	0.2	89	s.	11.9	5.3	.....	.....	8	.....	sw.	0.008	0.2	.....	H.H.Hildebrandesson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.17	766.4	47.5	8.6	84	sw.	0	0	.....	.....	4	.....	n.	0	0	foggy	The Observatory.
Valona	.....	.....	30.20	767.1	61.0	16.1	.....	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.90	759.4	59.7	15.4	67	sw.	.....	.....	2	.....	8ks;n	.....	nw.	0.44	11.2	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.13	765.3	30.22	767.6	36	2.2	79	s.	5	2.2	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. O. Barnes.
Alpena, Michigan	29.46	748.3	30.17	766.3	15	— 9.4	83	nw.	16	7.2	.....	.....	10 n	.....	.....	0.05	1.3	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	30.16	765.1	31.4	— 0.3	78	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.32	693.9	30.36	771.1	—13.0	—25.4	50	e.	12	5.4	.....	0	0	.....	.....	0	0	clear	F. Newman.
Atlanta, Georgia	29.05	737.9	30.27	768.8	59.3	15.2	91	sw.	11	4.9	.....	3 c	3 s	.....	sw.	0	0	fair	S. W. Beall.
Atlantic City, New Jersey	30.24	768.1	30.25	768.3	37.0	2.8	100	n.	5	2.2	.....	.....	10 n	.....	.....	0.98	24.9	light rain	B.A.Blundon.
Augusta, Georgia	30.11	764.8	30.31	769.9	59	15.0	84	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W.J.Evans.
Baltimore, Maryland	30.23	767.8	30.28	769.1	39	3.9	82	e.	4	1.8	.....	.....	10 n	.....	ne.	0.48	12.2	light rain	Geo. W Felger.
Barnegat City, New Jersey	30.25	768.3	30.27	768.8	37.5	3.1	100	e.	4	1.8	.....	.....	10n;fg	.....	.....	0.07	1.8	light rain	F.L.Johnson.
Bennett, Fort, Dakota	28.75	730.2	30.48	774.2	—24.0	—31.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Pritchard
Benton, Fort, Montana	27.39	695.7	30.39	771.9	— 8.2	—22.3	91	ne.	.....	.....	1	.....	10 n	.....	.....	.....	.....	light snow	Thomas Morgan.
Bismarck, Dakota	28.48	723.4	30.40	773.7	—17.0	—27.2	100	calm	0	0	.....	.....	10 s	.....	nw.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.28	769.1	30.32	770.1	30.0	— 1.1	92	ne.	9	4.0	.....	.....	10 s	.....	ne.	0.58	14.7	cloudy	J. T. Elker.
Boise City, Idaho	27.26	692.4	30.22	767.6	24.0	— 4.4	88	s.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	James Kenealy.
Boston, Massachusetts	30.12	765.0	30.28	769.1	24.5	— 4.2	94	n.	3	1.3	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.08	764.0	67.0	19.4	93	se.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	John McGlone.
Buffalo, New York	29.25	742.9	30.04	763.0	39.1	3.9	98	sw.	2	0.9	.....	.....	10 n	.....	.....	0.16	4.1	light rain	Wm. Finn.
Buford, Fort, Dakota	28.25	717.5	30.46	773.7	—24	—31.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Cairo, Illinois	29.83	757.7	30.25	768.3	39.8	4.3	87	n.	20	8.9	.....	.....	10 s	.....	n.	0.27	6.9	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.86	758.4	30.06	763.5	32.1	0.1	92	se.	4	1.8	.....	.....	10 s	.....	.....	0.61	15.5	cloudy	J.H.Young.
Cape Henry, Virginia	30.27	768.8	30.29	769.4	42.0	5.6	100	sw.	3	1.3	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	A. K. Alderson.
Cape May, New Jersey	30.21	767.3	30.24	768.1	39.0	3.9	94	e.	7	3.1	.....	.....	10 n	.....	.....	0.53	13.5	light rain	W.E.Smith.
Cape Mendocino, California	29.54	750.3	30.24	768.1	34.5	1.4	73	ne.	.....	.....	2	0	9 ks	.....	e.	0	0	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.28	769.1	30.30	769.6	65.0	18.3	95	se.	9	4.0	.....	.....	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.22	767.6	30.28	769.1	60.0	15.6	93	sw.	4	1.8	.....	0	3 s;fg	.....	sw.	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.36	745.7	30.25	768.3	56.4	13.6	90	sw.	4	1.8	.....	.....	10s;fg	.....	sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.34	745.2	30.20	767.1	59.5	15.3	96	ne.	2	0.9	.....	.....	10n;fg	.....	sw.	1.09	27.7	light rain	B. L. Gouldinz.
Cheyenne, Wyoming	23.90	607.0	30.18	766.6	14.3	— 9.8	70	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.46	748.3	30.20	767.1	22.0	— 5.6	75	nw.	6	2.7	.....	.....	10 s	.....	.....	0.16	4.1	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.24	768.1	30.26	768.6	40.5	4.7	100	ne.	6	2.7	.....	.....	fg.	.....	.....	0.27	6.9	dense fog	O. F. Dickens
Cincinnati, Ohio	29.38	746.2	30.07	763.8	57.8	14.3	83	sw.	7	3.1	.....	.....	10 n	.....	sw.	0.04	1.0	light rain	L.Dunne.
Cleveland, Ohio	29.24	742.7	30.02	762.5	45.0	7.2	100	se.	4	1.8	.....	.....	10 n	.....	se.	0.42	10.7	light rain	W.Line.
Columbus, Ohio	29.15	740.4	30.05	763.3	48.4	9.1	93	s.	6	2.7	.....	.....	fg	.....	.....	0.05	1.3	dense fog	F.T. Williams
Concho, Fort, Texas	28.28	718.3	30.30	769.6	41.1	5.1	100	ne.	12	5.4	.....	.....	10 n	.....	ne.	inap.	inap.	light rain	C. E. King.
Custer, Fort, Montana	26.89	683.0	30.25	768.3	—25	—31.7	68	se.	1	0.4	.....	0	8 s	.....	.....	0	0	cloudy	W.J.Daily.
Davenport, Iowa	29.63	752.6	30.33	770.4	8.5	—13.1	68	nw.	8	3.6	.....	0	0	.....	.....	0.07	1.8	clear	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	30.22	767.6	42.9	6.1	69	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.29	718.6	30.11	764.8	13.5	—10.3	91	w.	1	0.4	.....	.....	10 n	.....	.....	0.40	10.2	light snow	H.S.Blandford.
Deadwood, Dakota	25.31	642.9	30.23	767.8	— 4.0	—20.0	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	G.Kingsbury.
Delaware Breakwater, Del	30.26	768.6	30.28	769.1	36.6	2.6	100	ne.	4	1.8	.....	.....	10n;fg	.....	ne.	0.51	13.0	light rain	G.A.Martin.
Denver, Colorado	24.66	626.4	30.18	766.6	4.2	—15.4	75	s.	2	0.9	.....	0	0	.....	.....	0.02	0.5	clear	F. M. Neal.
Des Moines, Iowa	29.50	749.3	30.47	773.9	— 3	—19.4	65	n.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.09	764.3	36.1	2.3	89	n.	4	1.8	.....	.....	10 n	.....	.....	0.23	5.8	light rain	N.B.Conger.
Dodge City, Kansas	27.64	702.0	30.38	772.6	2.3	—16.5	76	nw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	J.E.Lanouette.
Dubuque, Iowa	29.59	751.6	30.35	770.9	10.2	—12.1	69	nw.	5	2.2	.....	0	1 s	.....	.....	inap.	inap.	clear	J. Harvey Smith
Duluth, Minnesota	29.00	751.8	30.41	772.4	— 4.0	—20.0	79	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear	E.R.Brace.
Eastport, Maine	30.25	768.3	30.32	770.1	20.8	— 6.2	91	ne.	11	4.9	.....	.....	10 s	.....	ne.	0.17	4.3	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.45	697.2	30.35	770.9	19.4	— 7.0	95	n.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	J. O. Rickli.
El Paso, Texas	26.33	668.8	30.21	767.3	39.2	4.0	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.26	743.2	30.03	762.7	45.5	7.5	96	s.	4	1.8	.....	.....	10 n	.....	.....	0.17	4.3	light rain	C. A. Shaw.
Escanaba, Michigan	29.58	751.3	30.30	769.6	0.0	—17.8	79	nw.	8	3.6	.....	0	0	.....	.....	0.11	2.8	clear	L.M.Pindell.
Fort Smith, Arkansas	29.79	756.7	30.29	769.4	37.2	2.9	89	n	7	3.1	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	J. B. Campbell.
Galveston, Texas	30.10	764.5	30.14	765.5	66.0	18.9	100	s.	6	2.7	.....	.....	fg.	.....	.....	0.15	3.8	dense fog	E. O'C. Macturney
Grand Haven, Michigan	29.41	747.0	30.12	765.0	29.0	— 1.7	88	nw.	5	2.2	.....	.....	10 s	.....	nw.	0.18	4.6	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.27	641.8	30.13	765.3	35.6	2.0	74	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	Chas. A. Read.
Hatteras North Carolina	30.26	768.6	30.27	768.8	58.5	14.7	100	e.	3	1.3	.....	hz.	k	.....	.....	0	0	fair	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.78	654.8	30.13	765.3	—10.4	—23.6	67	calm	0	0			10 s			0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.97	735.8	30.49	774.4	—25.3	—31.8	72	nw.	1	0.4		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.15	765.8	36.0	2.2	79	n.	7	3.1			10 s		n.	0.37	9.4	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.06	763.5	30.09	764.3	68.0	20.0	100	se.	7	3.1			10 s			0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.24	768.1	30.29	769.4	57.0	13.9	93	calm	0	0		0	fg.			inap.	inap.	clear.	J. W. Smith.
Keokuk, Iowa	29.67	753.6	30.37	771.4	10.0	—12.2	82	nw.	6	2.7		0	0			0.08	2.0	clear	F. Z. Gosewisch.
Key West, Florida	30.19	766.8	30.21	767.3	70	21.1	68	ne.	8	3.6		0	1 k		ne.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.26	768.6	30.28	769.1	44.2	6.8	100	calm	0	0			fg.			0	0	dense fog	Wesley Blake.
Knoxville, Tennessee	29.13	739.9	30.21	767.3	60.3	15.7	98	sw.	15	6.7			10 n		sw.	2.39	60.7	light rain	J. A. Cody.
La Crosse, Wisconsin	29.51	749.5	30.35	770.9	1	—17.2	72	n.	4	1.8		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.51	749.5	30.46	773.7	4	—15.6	47	nw.	6	2.7		0	0			0.02	0.5	clear	T. S. Outram.
Lewiston, Idaho	29.23	742.4	30.10	764.5	21.0	— 6.1	84	calm	0	0			10 n			0.08	2.0	light snow	C. E. Butler.
Little Rock, Arkansas	29.82	757.4	30.15	765.8	51.0	10.6	93	nw.	4	1.8			10 s			0.50	12.7	cloudy	W. U. Simons.
Los Angeles, California	29.79	756.7	30.19	766.8	40.7	4.8	82	ne.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.47	748.5	30.06	763.5	59.0	15.0	89	sw.	7	3.1			10 n			0.07	1.8	light rain	L. M. Dey.
Lynchburg, Virginia	29.53	750.0	30.25	768.3	44.0	6.7	85	ne.	1	0.4			10 s		ne.	0.62	15.7	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.54	750.3	30.24	768.1	12.0	—11.1	89	w.	6	2.7			10 s		w.	0.37	9.4	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.27	768.8	30.28	769.1	58.1	14.5	92	sw.	11	4.9		0	8 k		sw.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.59	650.0	30.34	770.6	—10.5	—23.6	57	ne.	4	1.8		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.55	750.6	30.33	770.4	3.0	—16.1	66	nw.	8	3.6		0	0			0.05	1.3	clear	J. Gilligan.
Memphis, Tennessee	29.81	757.2	30.16	766.1	53.5	11.9	100	nw	12	5.4			10 n			1.27	32.3	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.44	747.8	30.24	768.1	19.6	— 6.9	78	n.	13	5.8			10 s			0.14	3.6	cloudy	S. W. Rhode.
Mobile, Alabama	30.20	767.1	30.24	768.1	65.1	18.4	91	s.	5	2.2			fg.			0	0	dense fog	H. U. Jones.
Montgomery, Alabama	30.01	762.2	30.25	768.3	63	17.2	93	s.	8	3.6		3 cs	3k; fg		w.	0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.36	745.7	30.46	773.7	—21	—29.4	100	s.	5	2.2		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.75	603.2	30.37	771.4	31.5	— 0.3	100	nw.	52	23.2			fg.		nw.	0.08	2.0	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.54	750.3	30.14	765.5	58.0	14.4	97	s.	1	0.4			10 n		sw.	0.76	19.3	light rain	L. N. Jesunofsky
New Haven, Connecticut	30.14	765.5	30.26	768.6	27	— 2.8	100	n.	4	1.8			10 s			0.01	0.3	cloudy	J. H. Sherman.
New London, Connecticut	30.27	768.8	30.32	770.1	30.0	— 1.1	82	n	4	1.8			10 s		n.	0.13	3.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.15	765.8	30.21	767.3	65.0	18.3	90	calm	0	0			fg.			0	0	dense fog	M. Herman.
New York, New York	30.11	764.8	30.30	769.6	32.5	0.3	94	se.	2	0.9			10n; fg			0.08	2.0	light rain	H. J. Penrod.
Norfolk, Virginia	30.20	767.1	30.23	767.8	46.0	7.8	93	ne.	1	0.4			fg.			0.04	1.0	dense fog	Wm. Davis.
North Platte, Nebraska	27.24	691.9	30.34	770.6	—11.4	—24.1	74	calm	0	0		0	0			0	0	clear	J. J. Mc Lean.
Olympia, Washington Ter	29.98	761.5	30.02	762.5	24.0	— 4.4	88	calm	0	0			10 s			0.12	3.0	cloudy	J. Dascomb.
Omaha, Nebraska	29.25	712.9	30.52	775.2	— 5.0	—20.6	62	n.	4	1.8		0	0			0.10	2.5	clear	A. Pollak
Oswego, New York	29.71	754.0	30.06	763.5	39.0	3.9	75	se.	10	4.5			10n; fg			0.07	1.8	light rain	J. G. Linsley.
Palestine, Texas	29.61	752.1	30.19	766.8	54.5	12.5	93	ne.	4	1.8			10 s			0.08	2.0	cloudy	P. T. Jenkins.
Pensacola, Florida	30.21	767.3	30.24	768.1	66.0	18.9	99	se.	3	1.3		2 cs	0	w.		0	0	clear	M. McGauran.
Philadelphia, Pa	30.16	766.1	30.26	768.6	37.0	2.8	89	ne.	3	1.3			10 n		ne.	0.34	8.6	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.48	444.0	30.20	767.1	— 5.0	—20.6	75	sw.	44	19.7		0	0			inap.	inap.	clear	H. Hall.
Pittsburg, Pennsylvania	29.22	742.2	30.08	764.0	52.8	11.6	93	s.	6	2.7			10 n		s.	0.01	0.3	light rain	O. D. Stewart.
Poplar River, Montana					—28.7	—33.7	100	w			1		10 s			0	0	cloudy	G. A. Carden.
Port Huron, Michigan	29.34	745.2	30.07	763.8	32.7	0.4	92	w.	3	1.3			10 n			0.09	2.3	light snow	M. H. Perry
Portland, Maine	30.25	768.3	30.30	769.6	22.0	— 5.6	88	ne.	8	3.6			10s; sk		ne.	0.03	0.8	cloudy	W. W. Eichelberger.
Portland, Oregon	29.95	760.7	30.02	762.5	36.0	2.2	89	e.	1	0.4			10 s			0.04	1.0	cloudy	M. L. Hearn.
Prescott, Arizona	24.79	629.7	30.15	765.8	33.5	0.8	81	s.	8	3.6		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.25	768.3	30.28	769.1	36	2.2	100	calm	0	0			10s; fg			0.18	4.6	cloudy	C. N. Kitchel.
Red Bluff, California	29.91	759.7	30.28	769.1	29	— 1.7	88	n.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.83	757.7	30.08	764.0	69.0	20.6	90	se.	5	2.2			fg.		se.	0	0	dense fog	L. G. Schultz.
Rochester, N. Y	29.35	745.5	30.06	763.5	38	3.3	100	s.	10	4.5			10n; fg			0.06	1.5	light rain	E. W. McGann.
Roseburg, Oregon	29.57	751.1	30.14	765.5	36	2.2	79	se.	2	0.9			10 s		w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	30.19	766.8	30.26	768.6	34.0	1.1	88	n.	5	2.2		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.67	753.6	30.33	770.4	26.5	— 3.1	90	nw.	15	6.7			10 s		nw.	0.27	6.9	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.37	771.4	30.41	772.4	22	— 5.6	94	s.			2	0	5 s			0	0	fair	Fred. H. Clarke
St. Paul, Minnesota	29.49	749.0	30.42	772.7	— 8.4	—22.4	74	sw.	3	1.3		0	1 s			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.53	750.0	30.50	774.7	—17.5	—27.5	68	calm	0	0		4 cs	0			0	0	fair	C. B. Dilley
Salt Lake City, Utah	25.68	652.3	30.24	768.1	16.2	— 8.8	53	se.	4	1.8		0	0			inap.	inap.	clear	J. Craig.
San Diego, California	30.09	764.3	30.16	766.1	43.8	6.6	82	nw.	9	4.0		0	3 k		nw.	0	0	clear	F. R. Day.
Sandusky, Ohio	29.30	744.2	30.02	762.5	40.5	4.7	94	nw.	3	1.3			fg.			0.25	6.3	dense fog	B. F. Hough.
Sandy Hook, New Jersey	30.28	769.1	30.31	769.9	33.0	0.6	100	ne.	7	3.1			10 n		ne.	0.09	2.3	light rain	V. P. Chappel.
Sanford, Florida	30.20	767.1	30.25	768.3	65.0	18.3	81	se.	3	1.3		0	8 ks		se.	0	0	cloudy	J. B. Marbury
San Francisco, California	30.17	766.3	30.24	768.1	41.2	5.1	80	ne.	6	2.7		2 cs	0	w.		0	0	clear	N. Gorom.
Savannah, Georgia	30.19	766.8	30.28	769.1	57	13.9	86	s.	1	0.4		2 cs	fg.			0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.47	672.3	30.32	770.1	— 8	—22.2	78	n.	2	0.9			10 n			0.01	0.3	light snow	A. L. Mathews.
Shreveport, Louisiana	29.92	760.0	30.10	764.5	59.2	15.1	95	nw.	2	0.9			10 n		nw.	0.82	20.8	light rain	E. N. Meekins.
Sitka, Alaska	30.41	772.4	30.48	774.2	24.5	— 4.2	63	ne.	2	0.9		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	30.25	768.3	30.29	769.4	58.7	14.8	97	sw.	5	2.2		0	6 k		sw.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.95	709.9	30.08	764.0	14.0	—10.0	91	ne.	1	0.4			10 n			0.10	2.5	light snow	D. Moore.
Springfield, Illinois	29.60	751.8	30.33	770.4	25.0	— 3.9	82	n.	11	4.9			10 s		n.	0.28	7.1	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.08	687.8	30.21	767.3	49.0	9.4	80	n.	6	2.7		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.87	758.7			28.4	— 2.0	93	e.	17	7.6			10 n		e.	0.14	3.6	light snow	R. Connor.
Thomas, Camp, Arizona	27.38	695.4	30.21	767.3	34	1.1	74	s.			1	0	0			0.02	0.5	clear	R. C. Lord.
Toledo, Ohio	29.32	744.7	30.06	763.5	36	2.2	94	nw.	6	2.7			10n; fg			0.12	3.0	light rain	A. Buell.
Unalaska, Alaska	30.31	769.9	30.33	770.4	38	3.3	82	s.	18	8.0			10 n		s.	0.70	17.8	light rain	Samuel Applegate.
Vicksburg, Mississippi	29.91	759.7	30.18	766.6	67	19.4	78	s.	8	3.6			10 s		s.	0.05	1.3	cloudy	C. Dill.
Washington, D. C	30.16	766.1	30.28	769.1	37.2	2.9	100	ne.	2	0.9			10 n		ne.	0.70	17.8	light rain	T. B. Harrison.
West Las Animas, Colorado	26.10	662.9	30.22	767.6	— 4.5	—20.3	100	w.	7	3.1		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.24	768.1	30.30	769.6	59.5	15.3	90	s.	2	0.9		1 c	2s; fg			inap.	inap.	fair	L. H. Albrecht.
Yankton, Dakota	29.09	738.9	30.51	774.9	—20.5	—29.2	100	calm	0	0		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.98	761.5	30.14	765.5	44.5	6.9	57	ne.	3	1.3		0	0			0	0	clear	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.36	745.7	29.38	746.2	25.5	— 3.6	96	sw.	14	6.3		0	7k; n		sw.	inap.	inap.	fair	George Cheruick.
Bluefields, Nicaragua, C. A.					76	24.4		ne.			2	5 ck	1 k	s.	ne.	0.03	0.8	cloudy	W. H. Jackson.
Bogota, U. S. C	21.99	558.5			50.0	10.0	65	w.	2	1		2 cs	7 k	sw.	ne.	inap.	inap.		Joaquin Gomez.
Chimo, Fort, Ungava	29.87	758.7	30.03	762.7	—16	—26.7	100	calm	0	0			10 n		s.	0.01	0.3	light snow	L. M. Turner.
Kingston, Jamaica, W. I			30.03	762.7	71.0	21.7	83	calm	0	0		0	1 s			0	0	clear	Robert Johnstone.
Paramaribo, S. A	30.02	762.5	30.02	762.5	79	26.1	82	se.			3	5 ck	4 k	e.	e.	0.050	1.3		Dr. C. J. Hering.
Puerto Berrio, U. S. C	29.39	746.5	29.95	760.7	78	25.6	80	calm			0	0	9 ks		s.	0	0	cloudy	Francisco J. Olsnero.
Rivas, Nicaragua, C. A					74	23.3	90	ne.			1	0	0			0	0	clear	Earl Flint.
York Factory, B. A	30.19	766.8	30.26	768.6	—31.0	—35.0		nw.	15	6.7		1 c	1 s	nw.	nw.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.93	760.3	29.95	760.6	77.4	25.2	85	n.	11.2	5.0		0	6 ks		n.	0	0	fair	P. Fasiani.
Naôs, Bay of Panama	29.90	759.4	29.97	761.2	70.9	21.6	86	nw.			4	0	1 k		n.	0	0	clear	Antonio Fabre.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.																		
S. S. Alvo, Gonalves, Hayti, W. I*	30.11	764.8	72	22.2		e.			2–3		4		calm	2 h'r	2 h'r			fine.
S. S. Alleghany, Chesapeake Bay	30.28	769.1	42	5.6		calm			0		10							dense fog.
S. S. Ailsa, Aux Cayes, Hayti, W. I			68.5	20.3		ne.			3		0			0	0	sm'h		clear
S. S. America, N. 50° —', W. 2° —'			48	8.9	85	sw.			6		7		sw.	rain	rain	r'gh	sw.	rainy.
Schr. Arthur Burton, Savannah, Ga †	30.31	769.9				calm			0					0	0			smoky.
S. S. Alps, N. 17° 08', W. 68° 50'			81	27.2		e.			2		2		e.	rain	rain	short		clear.
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I †	30.12	765.0	66	18.9		nne.			3		3		ne.	0	0			clear
S. S. Anchoria, N. 51° 12', W. 28° 38'						w			9		5		w.			h'vy	cross	squally.
S. S. British Crown, N. 50° 38', W. 19° 00'†	28.79	731.3	39	3.9		wsw.			7		4		wsw.	0	0	h'vy	wsw.	
S. S. Caracas, La Guayra, Venezuela *†	30.00	762.0	75	23.9	84	ene.			1		3		ene.	0	0	light	ne.	fair.
S. S. Canada, (Fr) N. 46° 36', W. 46° 08'	30.41	772.3	21.2	— 6.		nw.			4		8.		nw.	0	0	large	nw.	cloudy.
S. S. Chalmette, N. 24° 25', W 82° 55' *†	30.14	765.5	73	22.8		e.			5		7		ese	0	0	mod.	e.	fair.
S. S. Devonia, N. 50° 10', W. 36° 19' *†	29.75	755.6	30	— 1.1		wnw.			9		10		wnw.	10 h'r	10 h'r	h'vy	wnw.	snow & hail.
S. E. J. Spicer, N. 36° 39', W. 36° 05'	30.36	771.1	62	16.7	94	w.			3		10		nw.	0	0	mod.	nne.	cloudy.
S. S. Frisia, N. 50° 00' W. 12° 20'	29.10	739.1	43.2	6.2		wsw.			8		10		wsw.	6 h'r	6 h'r	h'vy	wsw.	squally.
S. S. Grecian, Greenock, Scotland			49	9.4	93	ssw.			6		10			8 h'r	8 h'r			raining.
S. S. Hermann, N. 40° 25', W. 67° 44'	30.21	767.3	42.4	5.8	97	n.			2		10		n.	2 h'r	2 h'r	sm'h	nne.	foggy.
S. S. Iowa, N. 46° 57', W. 37° 52'			40	4.4		wnw.			7		9		wnw.	5 h'r	5 h'r	high	w.	squally.
Bg. L. & W. Armstrong, N. 31° 47', W. 73° 35'*†	30.42	772.7				e.			1				se.	0	0	long	ese.	fine.
S. S. Lone Star, N. 38° 30', W. 74° 00'*†	30.24	768.1	50?	10.0?		e.			1					0	0	mod.	e.	dense fog.
S. S. Marengo, N. 49° 07', W. 35° 51' *†	29.78	756.4	34	1.1		wnw.			9		6		wnw.	6 h'r	6 h'r	high	wnw.	hail squ'lls.
S. S. Neckar, N. 42° 37', W. 52° 40'	30.43	772.9	30.0	— 1.1		var.			4–7		7		var.	0	0	r'gh	var.	cloudy.
S. S. Orinoco, N. 35° 17' W. 67° 45' †	30.32	770.1	68	20.0		sw.			4		0			0	0	light	sw.	clear.
S. S. Oregon, (Br) N. 49° 56', W. 24° 15' *	29.01	736.8	36	2.2		wnw.			9		10		wnw.	20 h'r	20 h'r	h'vy	wnw.	hail & snow.
S. S. Ohio, (Am) off Saltees Light, Ireland*†	29.13	739.9	49	9.4	100	wsw.			4		9		wsw.	16 h'r	16 h'r	mod	sw.	cloudy.
S. S Pennsylvania, Liverpool, Eng †	29.23	742.4	49	9.4	85	ssw.			3		6		sw.	2 h'r	2 h'r			drizzling.
S. S. Polynesian, N. 54° 02', W. 17° 44'	28.46	722.9	44	6.7		sw.			7		7		wsw.	2 h'r	2 h'r	long	sw.	fair.
S. S. Rhein, N. 50° 41', — 0° 00'						ssw.			7		10		sw.	0	0			covered.
S. S. Rhynland, Antwerp, Belgium	29.71	754.6	46	7.8	100	ssw.			5		10		sw.	8 h'r	8 h'r			overcast.
S. S. Republic, N. 40° 30', W. 68° 48'			39	3.9		nzw.			4		9		nw.	sh'rs	sh'rs	sli't	ne.	misty.
S. S. Sardinian, N. 55° 13', W. 11° 59'			44	6.7		w.			9		10		w.	sh'rs	sh'rs	r'gh	w.	squally.
S. S. Switzerland, N. 47° 28', W. 34° 25' *†	29.88	758.9				nw.			8		10		nw.	8 h'r	8 h'r	h'vy	nw.	dull.
S. S. Samaria, N. 43° 00', W. 53° 00'	30.41	772.4	30	— 1.1		ese.			5		10		nw.	0	0	sm'h	wnw.	overcast.
S. S. Scythia, N. 45° 20', W. 43° 00'	30.41	772.4	35?	1.7?		nw.			4		8		nw.	3 h'r	3 h'r	h'vy	nnw.	cloudy.
S. Salisbury, N. 26° 09'. W. 72° 03'	30.19	766.9	73.4	23.0	86	ne.			6		4 k		ne.	½ h'r	½ h'r	long	ne.	fair.
Bk. Tuck Sing, N. 36° 41', W. 74° 23'*†	30.30	769.6				w.			2		1g.			0	0	long	nne.	foggy.
S. S. Valencia, N. 33° 48', W. 72° 03'†	30.39	771.9	69	20.6	75	wnw.			2		5		ssw.	0	0	long	se.	fair.
S. S. Belgenland, N. 47° 12', W. 25° 25' *†	29.42	747.3	42	5.6	91	wnw.			8				wnw.	hail	hail	h'vy	wnw.	overcast.
S. S. State of Georgia, N. 55° 02 W. 16° 32' †	28.37	720.6	41	5.0		sw.			8–9		7		sw.	hail	hail	r'gh	sw.	hail & snow
Schr Adda Doane, Kingston, Jamaica, W.I †	30.03	762.7				nw.			1		2		nne.	0	0			clear.
Bg, Alcira. Maracaybo, Venezuela*	29.98	761.5	78	25.6		nne.			2		3		ene.	0	0			hazy.
S. S. British Prince, N. 39° 45', W. 70° 01'			42	5.6		ne.			3		10		ne.			mod.	ne.	foggy.
Bk. Chas. Stewart, N. 35° 59', W. 7° 00'*†	30.30	769.6				w.			1		3		w.	0	0	sm'h	w.	fair.
Bk. Cato, N. 39° 25', W. 49° 21' †	30.41	772.4				ese.			3		8		se.	16 h'r	16 h'r	r'gh	ene.	raining.
S. S. D. J. Foley, N. 30° 00', W. 73° 45' *†	30.28	769.1	71	21.7	90	ene.			3		7		e.	0	0	mod.	se.	fair.
S. S. Gellert, N. 48° 37', W. 27° 11'			45	7.2	84	wnw.			7		8		nw.			long	w.	cloudy.
S. S. Labrador, N. 49° 51', W. 7° 40' *†	29.21	742.0	50.0	10		ssw.			6		10		sw.	½ h'r	½ h'r	rg'h	sw.	covered.
S. S. Habsburg, N. 43° 11', W. 57° 04'	30.36	771.1				ese.			5		10		ese.	3 h'r	3 h'r	mod.	ese.	overcast.
S. S. Pavonia, N. 41° 24', W. 57° 32'	30.19	766.8	55	12.8	93	ene.			6		0			17 h'r	17 h'r	mod.	e.	misty.
S. Parker M. Whitmore, N. 43° 03', W. 27° 40' *†	30.05	763.3	52	11.1		wnw.			7		6		wnw	2 h'r	2 h'r	high	nw.	squally.
S. S. Vaderland, N. 50° 05', W. 13° 45'	29.04	737.6	44	6.7		w.			8		8		wnw	0	0	high	nw.	squally.
S. S. Wieland, N. 50° 00', W. 22° 30'			33	0.6		nw.			8–9		4		nw.	hail	hail	h'vy	nw.	stormy.
S. S. W. A. Scholten, N. 49° 40' W. 17° 31'	28.91	734.3	43.5	6.4	91	w.			10		8		w.	rain	rain	7	sw.	squally.
S. S. Westphalia, N. 50° 15', W. 9° 37'			53	11.7	93	sw.			6		8		sw.	2 h'r	2 h'r	mod.	w.	cloudy.
S. S. Reliance, N. 6° 09' W. 51° 05'			80	26.7		ene.			4							r'gh	wnw.	fair.
S. S. Nurnberg, N. 42° 52, W. 41° 44'	30.39	771.9	41.0	5.0		nnw.			5–6		10		nnw.	0	0	mod	nw.	cloudy.
U. S. Navy Yard, Portsmouth, N.H*	30.23	767.8	22	— 5.6	86	ne.	5	2.2			10		ne.	0	0			cloudy.
U. S. S. Alliance, N. 21° 36', W. 70° 35'	30.13	765.3	75	23.9	77	ene.			4		2		ene.	0	0	r'gh.	e.	clear.
U. S. S. Kearsarge, Naples, Italy	30.13	765.3	57	13.9	75	sw.			1		5		nnw.					misty.
U. S. S. Lancaster, Naples, Italy	30.13	765.3	58	14.4	94	sw.			1		2		sw.	0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.29	769.4	28	— 2.2	100	nne.			3		10					sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.03	762.7	53	11.7	86	ene.			2		8		e.			sm'h		fair.
U. S. S. Swatara, Kingston, Jamaica, W.I	30.04	763.0	75	23.9	81	nne.			1		5?		nne.	0	0	sm'h		cloudy?
U. S. S. Tennessee, New Orleans, La	30.22	767.6	62	16.7	100	ne.	1	0.4			1g.			0	0			foggy.
U. S. S. Trenton, Naples, Italy	30.13	765.3	59	15.0	76	sw.			1		5		sw.					fair.
U. S. S. Vandalia, Curacoa, W. I	29.96	761.0	75	23.9	81	ene.			1		5		calm					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.16	766.1	73	22.8	63	sw.			1		0							blue sky.
H. M. S. Boadicea, off Gambia river, W. Africa	30.00	762.0	71	21.7	90	n.			1		4		n.			1	nne.	blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.32	770.1	66	18.9	89	e.			2		4		ene.					d. clouds.
H. M. S. Himalaya, N. 33° 54', W. 13° 15'	30.32	770.1	61	16.1	71	calm			0		1		ese.			1	ssw.	blue sky
H. M. S. Monarch, N. 34° 40', E. 19° 08'	30.16	766.1	63	17.2	78	ssw.			2		4		w.			1	wsw.	d. clouds.
H. M. S. Minotaur, Cagliari, Sardinia	30.10	764.5	55	12.8	93	calm			0		3		wsw.					misty.
H. P. M. S. Douro, St Thomas, Gulf of Guinea	29.87	758.7	84.2	29.0	85	ese.			3		5			0	0	1	se.	d. clouds.
S. S. Lord Clive, N. 41° 01', W. 65° 06'						n.			3		10		w.	4 h'r	4 h'r	sli't	ese.	misty.
S. S. Prussian, N. 43° 14', W. 59° 42'	30.27	768.8	40	4.4		e.			5		10		e.	10 h'r	10 h'r	cross	e.	drizzling.
S. S. Scandinavian, Glasgow, Scotland	28.93	734.8	46	7.8		ssw.			5		10		ssw.	22 h'r	22 h'r			raining.
S. S. Dorian, N. 46° 50', W. 42° 16'	30.44	773.2	26	—3.3		n.			6		8?		n.	0	0	long	n.	clear.?
S. S. Llandaff City, N. 44° 44', W. 44° 20' *†	30.45	773.4	32	0.0		n.			4		8		ne.	0	0	h'vy	n.	cloudy.
S. S. Hevelius, N. 26° 05', W. 20° 45' *†	30.20	767.1	63	17.2		sse.			2		5?		wsw.	1 h'r	1 h'r	long	nw.	clear?
S. S. Rosse, N. 32° 26', W. 14° 47'	30.23	767.8	64	17.8	81	se			3		0			0	0	long	nw.	fine.
S. S. Archimede, (It.) Messina, Sicily			64	17.8		se.			2		3		se.	0	0			clear.
S. S. Picqua, N. 39° 02', W. 67° 58' *†	30.28	769.1	49	9.4	100	nw.			2				n.	6 h'r	6 h'r	high	ne.	cloudy.
S. S. Dominion, N. 45° 35', W. 48° 00' *†	30.40	772.1	21	—6.1		w.			3		5		w.			sm'h	w.	fair.
S. S. Denmark, N. 41° 00', W. 62° 09'†	30.18	766.6	51	10.6	93	wnw.			4		10		wnw.	20 h'r	20 h'r		cl'd	clearing.
S. S. Erin, N. 48° 22', W. 33° 27'			31	— 0.6		nw.			9		7		wnw.	4 h'r	4 h'r	high	nw.	heavy gale.
S. S. Leipzig. N. 38° 17', W. 17° 50' *	30.15	765.8	65.0	18.3	97	nw.			5		6		nw.	3 h'r	3 h'r	long	nw.	light squalls
S. S. City of Augusta, Savannah, Ga*†	30.21	768.1				calm			0		0			0	0			foggy.
S. S. Waesland, Antwerp, Belgium			50	10.0		s.			4		0			1 h'r	1 h'r			clear
S. S. Westerniand, Jersey City, N. J	30.29	769.4	43?	6.1?	100	ese.			2		10		ese.	16 h'r	16 h'r			rainy.
S. S. Zaandam, N. 40° 44', W. 61° 47'			63.7	17.6?	93	nnw.			3		5?		nw.	16 h'r	16 h'r	long	ene.	cloudy.?
S. S. State of Nebraska, N. 41° 06', W. 65° 49'			39	3.9		n.			2–3		8		n.			sm'h		dense fog.
S. S. State of Nevada, N. 50° 22' W. 36° 13'			36	2.2		nnw.			7		8		nw.	snow	snow	high	wnw.	cloudy.
S. S. Saxon, N. 39° 45', W. 73° 45'			38	3.3		e.			1		10		ne.	0	0	gentle	ese.	overcast.
S. S. Celtic, Liverpool, Eng			55	12.8		sw.			6		10		wsw.	12 h'r	12 h'r			raining.
S. S. Lepanto, N. 33° 56', E. 23° 31'	30.13	765.3	56	13.3		wnw.			4		3		nw.	0	0	mod	nw.	clear.
S. S. Romano, N. 44° 49', W. 27° 10'			46	7.8		wnw.			6		8		nw.	hail	hail	h'vy	nw.	hazy.
S. S. Salerno, N. 40° 40', W. 71° 15'†	30.31	769.9	38	3.3		nnw.			2		10		nnw.	1.0	25.	sm'h	e.	raining.
S. S. Antonio Lopez, Cadiz, Spain	30.13	765.3				calm			0		3			0	0			fair.
Bgt. Achsah, N. 37° 52', W. 62° 50' †	30.22	767.6	69	20.6		sw.			5		10		sw.	light	light	mod.	sw.	cloudy.
S. Armenia, N. 49° 45', W. 9° 45' *	29.13	739.9	52	11.1	86	wsw.			7		3		wsw.	3 h'r	3 h'r	r'gh	w.	squally.
Bk. Adelaide, N. 25° 25', W. 36° 14' *†			72	22.2		e.			6		1		e.	0	0	r'gh	ene.	clear.
Bk. Bayonnaise, N. 35° 55', W. 7° 10'			59.9	15.5		w.			1		6		w.	0	0	sm'h	w.	fair.
S. Dora, N. 55° 03', W. 27° 20'†	28.08	713.2	38.3	3.5		nw.			8		10		w.	8 h'r	8 h'r	h'vy	var.	heavy gale.
S. David Stewart, N. 8° 56', W. 51° 47'†	30.07	763.8	78	25.6		ene.			7		3		ne.	0	0	mod.	ne.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity Miles p. hr.	Velocity Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
Schr. Edith R. Seward, N. 34° 08′, W. 68° 26′ †	30.34	770.6	70	21.1		sw.			1		5?		s.	0	0	long	ese.	clear.?
Bk. Fred W. Carlon, Progreso Roads, Mexico			80	26.7		e.			4				e.	0	0	sm'h	e.	clear.
Bk. Gloire, N. 19° 57′, W. 45° 00′ *	30.08	764.0	78	25.6		e.			4		4		e.	0	0	sm'h		clear.
Bk. George Davis, N. 33° 35′, W. 69° 12′*†	30.28	769.1				ssw.			1				s.	0	0	mod.	ese.	clear.
S. Hedwig, N. 41° 18′, E. 18° 14′	30.17	766.4	54.0	12.2	84	s.			2		7		var.	0	0	sm'h		fair.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.25	768.3	65	18.3		calm			0					0	0			foggy.
S. Henry, N. 38° 24′, E 8° 15′ *	30.13	765.3	60.4	15.8		s.			2	7 c	0					sm'h		foggy.
Schr. John L. Thomas, South Hobbies Cays, C. A †	30.00	762.0	76	24.4	86	ene.			3		1		ene.	0	0			clear.
Bg. John Welsh, jr., N. 29° 24′, W. 87° 40′ †	30.25	768.3				sse.			2		10		s.			sm'h	se.	
Bg. Lilian, N. 16° 00′, W. 59° 10′†	30.06	763.5	79	26.1		e.			1		1			0	0	mod.	n;ne.	clear.
S. S. Laurel, Key West, Fla †	30.20	767.1	71	21.7		ne.			2-3		4		ene.	0	0			fair.
Bg. L. F. Munson, N. 35° 25′, W. 55° 53′			67	19.4		wsw.			4		2		w.	0	0	long	se.	fair.
S. S. Madrid, Shields, Eng†	29.17	740.9	51	10.6	86	s.			7		10		s.	5 h'r	5 h'r			fair.
Schr. Minnie A. Bonsall, Mayport, Fla *†	30.29	769.4	70?	21.1?		nnw.			1					0	0			clear.
Schr. Norena, Fajardo, Porto Rico, W. I †	30.01	762.2				ne.			2		5		ne.	6 h'r	6 h'r			showery.
Bk. Orpheus, N. 50° 00′, W. 9° 38′*	29.08	738.6	52	11.1		wsw.			7		8 k		nw.			cross	var.	squally.
S. S. Radnorshire, N. 35° 42′, E. 17° 33′*†	30.18	766.6				wsw.			2		1		wnw.	0	0			hazy.
S. Stephen D. Horton, N. 50° 14′, W. 2° 34′†	29.64	752.8				sw.			7		10		sw.	6 h'r	6 h'r	r'gh	w.	drizzling.
Bk. Silica, N. 42° 18′, W. 29° 00′*	30.26	768.6				wnw.			6		8		nnw.	0	0	h'vy	nnw.	cloudy.
Bg. Teneriffe, N. 23° 15′, W. 82° 10′	30.18	766.6				e.			5		2			0	0	1	ese.	
S. S. City of Alexandria, Havana, Cuba, W. I *†	30.12	765.0	64	17.8		e.			3							mod.	e.	d. clouds.
S. S. City of Washington, N. 18° 40′, W. 95° 39′*†	30.00	762.0	80	26.7		e.			2							sm'h		fine.
S. S. Maasdam, N. 48° 35′, W 29° 00′*	29.35	745.5	37.9	3.3		nw.			9							high		stormy.
S. S. Strathleven, N. 43° 48′, W. 43° 05′*	30.44	773.2	34.4	1.3	92	wnw.			5		10		wnw.			6	n.	overcast.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	30.10	764.5	69	20.6	65	nnw			1		0							clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.98	761.5	67.5	19.7	72	n.			1		0							blue sky.
H. M. S. Opal, Simons Bay, Cape Colony	30.10	764.5	71	21.7	58	se.			9		3	se.						squally.
H. P. M. S. Rainha de Portugal, Cabinda, Guinea	29.80	757.0	83.7	28.7	79	ene			2		7			0	0	1		d. clouds.
H. P. M. S. Bengo, S. 5° 41′, E. 8° 13′	29.95	760.6	82.4	28.0	86	sse.			2		8		sse.	12 h'r	12 h'r	2		d. clouds.
Bk. Celestina, S. 2° 38′, W. 27° 52′ *†	29.96	761.0				se.			4		5		se.	0	0	mod.	sse.	fair.
S. S. George S. Homer, S. 45° 37′, W. 38° 57′*†	29.70	754.4				sse.			4		3		var.	3 h'r	3 h'r	r'gh	var.	raining.
Bk. Godeffroy, S. 16° 02′, W. 30° 25′	29.94	760.5	80.1	26.7	76	nne.			4		4 k		nne.	rain	rain	mod.	e.	fair.
S. Grecian, S. 51° 32′, W. 51° 32′ †	29.54	750.3	46	7.8	100	nnw.			6		10		sw.	2 h'r	2 h'r	long	s.	misty.
S. Henry Failing, S. 45° 08′, W. 42° 03′*†	29.80	756.9	49	9.4		sse.			5		10		se.	6 h'r	6 h'r	long	ssw.	misty.
Bk. Horace Scudder, St. Paul de Loanda, Benguela*†	30.10	764.5	84	28.9		w.			3		2		wsw.	0	0			clear.
Bkt. Levanter, Montevideo, Uruguay*	30.07	763.8	69	20.6		nnw.			2		0			0	0	sm'h		clear.
S. St. David, S. 3° 12′, W. 27° 12′*†	29.98	761.5	84	28.9	79	ese.			4		6		var.	1 h'r	1 h'r	long	var.	hazy.
Bk. Winifred, S. 20° 10′, W. 34° 13′*†	29.90	759.4											n.	0	0		ne.	
S. Orealia, S. 26° 14′, W. 27° 00′*	29.96	761.0				se.			2		5		se.	½ h'r	½ h'r	sm'h		fair.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 23° 18′, E. 142° 18′	30.11	764.8	71	21.7	71	nw.			3		10					mod.		cloudy.
U. S. S. Essex, Canton, China	30.31	769.9	57	13.9	63	calm			0		8							cloudy.
U. S. S. Hartford, N. 7° 56′, W. 121° 48′	29.90	759.4	79	26.1	91	ne.			4		5?		ne.	light	light	sm'h	n;e.	cloudy.?
U. S. S. Juniata, Shanghai, China	30.50	774.7	37	2.8	81	ne.			1		0			0	0			clear.
U. S. S. Monocacy, Shanghai, China	30.52	775.2	39	3.9	64	n.			1		0							clear.
U. S. S. Palos, Tientsin, China	30.52	775.2	24	— 4.4		n.			1		0							clear.
U. S. S. Ranger, N. 12° 07′, W. 86° 51′	30.00	762.0	76	24.4	73	e.			3		2			0	0	sm'h		fair.
H.M.S. Audacious, Victoria harbor, Hong Kong, China	30.28	769.1	57	13.9	69	e.			1		2		ene.					blue sky.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.29	769.4	55	12.8	74	e.			4		3		calm			4	var.	d. clouds.
H. M. S. Champion, Shanghai, China	30.46	773.7	33	0.6		ne.			1		10							misty.
H. M. S. Flying Fish, N. 22° 17′, E. 114° 14′	30.33	770.4	57.4	14.1	66	ene.			4		10					4	ene.	overcast.
H. P. M. S. Tamega, Macao, China	30.28	769.0	57.2	14.0	78	calm			0		10			0	0			overcast.
S. S. Newbern, N. 33° 06′, W. 118° 32′			53	11.7	80	nw.			2		3		n.	0	0	small	wnw.	clear.
S. S. Oceanic, N. 43° 03′, E. 173° 20′	29.30	744.2	46	7.8	92	se.			5		9		se.	12 h'r	12 h'r	6	nw.	cloudy.
S. S. Oregon, San Francisco, Cal †	30.25	768.3	43	6.1	67	calm			0		0							clear.
S. S. Alameda, San Francisco, Cal †	30.06	763.5	40	4.4		calm			0		0			0	0			clear.
S. S. Ancon, Point Fermin, Cal	30.11	764.8	49	9.4	78	nnw.			3		7		nw.	0	0			fair.
S. S. City of Chester, Eureka, Calif	30.29	769.4	35	1.7	100	calm			0		0			0	0			
S. S. Queen of the Pacific, N. 45° 32′, W. 124° 44′			41	5.0	82	sw.			2		7		sw.	4 h'r	4 h'r			fair.
S. S. State of California, Portland, Oregon			34	1.1	90	e.			1		10		e.					cloudy.
S. S. Eureka, N. 46° 11′, W. 123° 51′			32	0.0	100	e.			2		10			6 h'r	6 h'r	sm'h		cloudy.
S. S. City of Rio de Janeiro, N. 34° 35′, E. 139° 13′†	29.90	759.4				sw.			2		3		wsw.			sm'h		clear.
S. S. Colima, N. 18° 06′, W. 103° 13′ †	29.99	761.7	73	22.8	81	sse.			2		4		se.	0	0	small	nw.	clear.
S. S. Granada, N. 15° 39′, W. 96° 44′†	29.93	760.2	74	23.3	90	nw.			1		0			0	0	light	sw.	clear.
S. S. San Blas, Panama, Panama †	29.92	760.0	73	22.8	00	nw.			2		2		w.	c	0			clear.
S. S. Benalder, N. 34° 30′, E. 139° 15′*	30.02?	762.5?	44	6.7	68	w.			6		0			0	0	mod.	wsw.	clear.
S. Carondelet, N. 18° 58′, E. 131° 18′ *†	30.20	767.1				ne.			5		8		ne.	2 h'r	2 h'r	r'gh	nne.	cloudy.
S. St. Francis, N. 3° 30′, W. 116° 45′*†	29.90	759.4	76	24.4	82	ene.			4		6		ne.	3 h'r	3 h'r	mod.	e.	fair.
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru *†	30.02	762.5	70	21.1	100	se.			2		10		se.			mod.	w.	misty.
U. S. S. Wachusetts, Callao, Peru *	29.96	761.0	69	20.6	95	sse.			2		10		calm			mod.	nw.	overcast.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	30.18	766.6	56	13.3	81	ne.			3		4							squally.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.17	766.3	58.3	14.6	88	se.			2		0					sm'h		blue sky.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.92	760.0	65	18.3	94	calm			0		8							d. clouds.
S. S. Australia, S. 19° 42′, W. 172° 39′	29.91	759.7	78	25.6	?	n			6		7		nnw.	h'vy	h'vy	r'gh	nnw.	thnd'r storm
S. S. Zealandia, S. 31° 02′, E. 178° — ′	29.79	756.7	71	21.7	85	ne.			7		10		ene.	rain	rain	h'vy	ene.	
S. Ismir, S. 38° 50′, W. 92° 26′ *†	30.00	762.0				calm			0		8		calm	3 h'r	3 h'r	r'gh	se.	cloudy.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.86	758.4	67	19.4		calm			0		0					1	n.	
H. M. S. Sylvia, off Sandy Point, Patagonia	29.50	749.3	49.7	9.8	71	nnw.			4		9		calm					d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, S. 32° 13′, E. 30° 50′	30.05	763.3	78	25.6	73	nnw.			1		8		n.	0	0	sm'h		cloudy.
H. M. S. Euryalus, Suakin, Egypt	29.94	760.5	71	21.7	85	ne.			3		0							blue sky.
H. M. S. Tourmaline, Tamatave, Madagascar	29.86	758.4	83	28.3	71	s.			2		5							d. clouds.
S. S. Port Phillip, S. 35° 31′, E. 138° 07′	29.99	761.7	82	27.8	83	s.			1							sm'h		clear.
H. M. S. Magpie, N. 6° 10′, E. 99° 44′	29.87	758.7	83.5	28.6	75	n.			2		4							d. clouds.

International Chart I. February 9, 1884. Isobars and Isotherms.

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 10, 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.22	767.7	65.1	18.4	79	se.			1		3			0	0	pretty fair	Roziere.
Algiers			30.19	766.7	61.2	16.2	67	nne.			3		4			0	0	cloudy	Théve.
La Galle			30.15	765.7	61.2	16.2	87	nnw.			2		2			0	0	fair	Fonfrède.
Tunis			30.17	766.2	55.0	12.8	85	ne.			4		4			0	0		Delord.
Geriville					59.0	15.0	21	w.			2		1			0	0	very fair	Forfert.
Laghouat			30.30	769.6	66.6	19.2	63	nw.			1		0			0	0	clear	Abraham.
Biskra			30.25	768.3	59.7	15.4	60	calm			0		0			0	0	clear	Gouson.
Australian.																			
Adelaide, South Australia			30.06	763.5	67.3	19.6	47	se.	20	8.9		2 c				0	0	squally	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.60	751.8	29.79	756.7				w.	10	4.5			9		w.	0.02	0.5	cloudy	Com. J. Shortt, R. N.
Melbourne, Victoria	29.98	761.5	30.07	763.8	61.2	16.2	76	s.	10	4.5			7			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.56	750.7	30.13	765.2	38.8	3.8	80	ne.			1		10			0	0	foggy	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.26	743.2	30.06	763.4	38.1	3.4	90	wsw.	0	0			8			0	0		Dr. Wierzbiski
Eperies	29.26	743.2	30.17	766.4	37.8	3.2	80	calm			0		10			0	0	foggy	Julius Mikolik.
Gratz	28.86	733.0	30.17	766.2	34.7	1.5	90	s.			2		10			0	0		Andreas Rospini.
Hermannstadt	28.70	729.0	30.17	766.3	44.8	7.1	66	se.			4		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.06	728.0	30.05	763.3	36.0	2.2	94	e.			1		10			0	0	foggy	The Staff.
Lemberg	29.13	739.9	30.16	766.0	37.0	2.8	77	s.			4		1			0	0		Dr. T. Stanecki.
Pola	30.02	762.0	30.14	765.5	48.9	9.4	84	wnw.			3		3			0	0		I. R. Hydrographic Office.
Szathmar	29.68	753.9	30.16	766.1	40.3	4.6	84	w.			2		8			0	0		Joseph Midlinszky, S. J
Szegedin	29.87	758.7	30.16	766.0	44.8	7.1	78	s.			2		8			0	0		Karl Stancel.
Trieste	30.05	763.3	30.15	765.8	48.4	9.1	92	calm			0		10			0	0		Royal Academy.
Vienna	29.40	746.8	30.15	765.8	34.3	1.3	94	se.			1		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.42	721.9	29.82	757.4	44.6	7.0	96	sw.			2		5			0.394	10.0	raining	
Brussels	29.52	749.9	29.72	754.9	51.4	10.8	72	sw.			5		10		sw.	0.118	3.1		
Furnes	29.65	753.2	29.67	753.7	51.4	10.8	70	sw.			2		8			0.016	0.4		
Maeseyck	30.39	771.8	30.51	775.0	52.0	11.1	79	sw.			2		7			0.055	1.4		
British.																			
Aberdeen	28.81	731.8	28.91	734.3	41.1	5.1	66	s.	21	9.4			6			0	0	squally	W. Boswell.
Bidston, Liverpool Obs'y			29.23	742.4	39.2	4.0	82	sw.	29	13.0			5					d. clouds	John Harnup.
Bolton, Sharples	28.70	729.0	29.23	742.4	37.8	3.2	88	ssw.	24	10.7			10					gloomy	Thomas Mackereth.
Bradford, Yorkshire	28.86	733.0	29.25	742.9	38.5	3.6	86	sw.			4		2			0.20	5.1	blue sky	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	29.97	761.2	30.00	762.0	79	26.1	78	ne.			5		7					d. clouds	Corp'l C. McGregor, A.H.C
Cardington					43.4	6.3	72	w.			6.0		1					blue sky	John McLaren.
Chatham, School M. E.	29.38	746.2	29.56	750.8	47.7	8.7	67	sw.			3		7			blank	blank	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.32	744.7	29.56	750.8	45.0	7.2	54	sw.			6		3					squally	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.69	754.1	29.92	760.0	83	28.3	67	s.			1		1					d. clouds	J. W. Smith.
Galway, Queen's College	28.95	735.3	28.99	736.3	38	3.3	63	sw.			6		9			0.35	8.9	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.08	764.0	30.14	765.5	65.0	18.3	87	w.			2		3					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.36	745.7	29.53	750.0	47.7	8.7	78	wsw.					7					d. clouds	The Staff.
Guernsey	29.36	745.7	29.66	753.4	45.5	7.5	90	wsw.			5		8					showery	A. Collenette, F.R.M.S.
Kew, Observatory	29.51	749.5	29.55	750.6	45.3	7.4	80	sw.	22	9.8			6					d. clouds	The Staff.
Leicester, Museum	29.17	740.9	29.43	747.5	45.0	7.2	72	sw.			3		8					overcast	J. C. Smith.
Malta, Mediterranean	29.98	761.5	30.00	763.5	58.2	14.6	85	n.			2		6			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.19	766.8	30.24	768.1	73.2	22.9	85	ne.			1		5					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.26	743.2	29.48	748.8	47.0	8.3	88	sw.			6		6					d. clouds	The Staff.
Plymouth	29.47	748.5	29.54	750.3	45.4	7.4	70	w.			6		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	28.50	723.9	28.60	726.4	40	4.4	73						1					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.09	764.3	30.16	766.1	50.2	10.2	55	ene.			2		6					d. clouds	W. H. Lyne.
Sheffield	29.02	737.1	29.30	744.2	44.2	6.8	66	sw.			4		1					blue sky	W. F. Cooper.
Silloth Rectory	29.04	737.6	29.07	738.4	40.3	4.6	86	w.			6		8			0.030	0.8	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.25	742.9	36.5	2.5	85	ssw.	27	12.1			10			0.204	5.2	overcast	Rev. S. J. Perry.
Strathfield Turgiss					42.2	5.7	72	sw.			3.5		5					showery	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.22	742.2	29.24	742.7	38.3	3.5	58	wsw.	40	17.9			6					d. clouds	The Met'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.69	754.1	30.08	764.0	58.3	14.6	78	w.	8.7	3.9			10 n			0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.18	766.6	30.22	767.6	9.0	—12.8		calm	0	0		5 c	0	n.		0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	763.0	30.09	764.3	12	—11.1	94	n.	12	5.4			10 n		calm	0.500	12.7	snowy	H. J. Cundall, C. E.
Chatham, N. B*	30.13	765.3	30.20	767.1	8	—13.3	91	w.	3	1.3		2 ck	0	w.		0.17	4.3	fair	G. A. Blair.
Cornwall, Ontario	30.24	768.1	30.46	773.7	11.3	—11.5	96	w.			1	0	4 s			0.070	1.8	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.23	767.8	30.28	769.1	10.5	—11.9		w.			1	0	0			0.400	10.2	blue sky	H. A. Johnson.
Father Point, Quebec*	30.28	769.1	30.30	769.6	11	—11.7	73	ne.	8	3.6		0	8 cs		calm	0.20	5.1	fair	J. McWilliams
Fort Garry, Manitoba*	29.75	755.6	30.78	781.8	—32	—35.6	100	nw.	3	1.3		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.19	766.8	30.26	768.6	13.1	—10.5	89	nw.	7	3.1		0	1 s			0.490	12.4	d. clouds	Prof. Thos. Harrison.
Grand Manan, N. B.	30.16	766.1	30.22	767.6	21	— 6.1	87	n.	21	9.4		0	8 ks		n.	0.07	1.8	clearing	J. Chipman Seeley
Granton, Ontario	29.41	747.0	30.64	778.2	7.7	—13.5	96	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.91	759.7	30.05	763.3	30	— 1.1	100	w.	8	3.6			10 k		n.	0.260	6.6	cloudy	A. Allison.
Hamilton, Ontario																			Geo. Dickson, B. A.
Kingston, Ontario*	30.14	765.5	30.51	774.9	16	— 8.9	80	ne.	2	0.9		0	0			0.08	2.0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.91	759.7	29.95	760.7	18.5	— 7.5	92	n.	5	2.2		5 k	0			0	0	fair	C. H. Rigby.
London, Ontario	29.60	751.8	30.60	777.2	10.8	—11.8	86	calm			0	2 k	0			0.10	2.5	blue sky	E. B. Reed.
Medicine Hat, N. W. T.	28.21	716.5	30.99	787.1	—26	—32.2	76	n.	1	0.4		0	8 n			0	0	fair	John Ewart.
Minnedosa, N. W. T	28.51	724.1	30.86	783.8	—29	—33.9	100	nw.	9	4.0		2 cs	0	nw.		0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	30.21	767.3	30.44	773.2	18	— 7.8	83	n.	1	0.4			10 n			0.30	7.6	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.24	768.1	30.49	774.4	5.9	—14.5	85	e.					10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.81	757.2	30.61	777.5	— 4	—20.0	68	n.	6	2.7			10 n		w.	0.20	5.1	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.75	755.6	30.56	776.2	13.2	—10.4	81	w.			1	0	0			0.06	1.5	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.87	758.7	30.69	779.5	— 8	—22.2	82	s.	2	0.9		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.80	756.9	30.56	776.2	17	— 8.3	83	nw.	6	2.7		0	0			0.14	3.6	clear	H. Morgan
Port Stanley, Ontario	29.86	758.4	30.57	776.5	15	— 9.4	91	nw.	1	0.4		0	0			0.07	1.8	clear	M. Payne.
Qu Appelle, N. W. T	28.16	715.3	30.97	786.6	—36	—37.8		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.96	761.0	30.36	771.1	9	—12.8	87	w.	6	2.7		0	0			0.90	22.9	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	30.03	762.7	30.54	775.7	9	—12.8	80	calm	0	0			10 n			0.47	11.9	cloudy	W. H. McIntyre.
St. Andrews, N. B.	30.16	766.1	30.22	767.0	17	— 8.3	88	nw.	5	2.2		0	0			0.37	9.4	clear	
St. John, N. B	30.05	763.3	30.21	767.3	11.0	—11.7	91	n.	8	3.6		4 k	5 k	n.		0.155	3.9	fair	G. Hutchinson.
St. Pierre, N. F			29.61	752.0	33.8	1.0		s.			1								The Commandant.
Saugeen, Ontario*	29.75	755.6	30.53	775.4	17	— 8.3	96	n.	1	0.4			10 s			0.25	6.3	cloudy	
Stratford, Ontario	29.17	740.9	30.60	777.2	8.2	—13.2	78	calm	0	0		0	5 s			0	0	blue sky	W. McBride, M.A.
Sydney, C. B*	29.81	757.2	29.87	758.7	24	— 4.4	80	nw.	6	2.7		8 k	0			0.24	6.1	fair	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	30.15	765.8	30.57	776.5	20	— 6.7	84	n.	4	1.8		5 ck	hz	n.		0.34	8.6	fair	Magnetic Observatory.
Woodstock, Ontario	29.43	747 5	30.61	777.5	11.6	—11.3	81	w.	3	1.3		6 cs	3 s	s.		0	0	d. clouds	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.12	765.0	30.19	766.8	28	— 2.2	77	nw.	19	8.5			10 k		nw.	0.03	0.8	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.11	764.8	30.14	765.5	73.5	23.1	85	ne.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.82	757.4			95.0	35.0	26	ne.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			95	35.0	38									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.93	760.3	30.01	762.2	62.6	17.0	88	sw.			1	10						cloudy	Samuel Redolez.
Iquique	29.87	758.6	29.89	759.3	67.1	19.5	86	sw.			2	5 c						foggy	Rafael Moreno.
Niebla	29.61	752.1	29.72	754.8	57.2	14.0	93	e.			2		2 n		s.	0	0		Federico Köhling.
Punta Caldera	29.87	758.7	29.96	760.9	66.6	19.2	82	sw.			1	8 c		sw.				fair	Manuel Tobar.
Punta Corona	29.91	759.6	30.09	764.3				w.			1		8 n			0.063	1.6	misty	Francisco Alvarado.
Valparaiso	29.85	758.3	29.99	761.8	58.8	14.9	89	n.			0		10					cloudy	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.62	777 7	30.64	778.3	32.0	0.0	70	nne.	4.5	2.0		10 ck	0	w.		0	0	covered	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.61	752.0	29.65	753.2	42.1	5.6	99	ssw.	20	9			10						Oversergent Fischer.
Fanöe	29.54	750.3	29.56	750.8	43.7	6.5	94	sw.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.56	750.9	29.61	752.0	— 8.5	—22.5	100	nne.			4		3						S. Kleinschmidt.
Ivigtut, Greenland	29.40	746.8	29.42	747.3	— 2.6	—19.2		calm			0		8						
Jacobshavn, Greenland	29.70	754.4	29.75	755.6	—33.7	—36.5		calm			0		2						
Stykkisholm, Iceland	28.54	725.0	28.59	726.1	18.3	— 7.6	86	ne.			8		10					snowing	A. O. Thorlacius.
Thorshavn	28.13	714.4	28.15	715.0	39.7	4.3	90	se.	13	6.			10					raining	Overloerer Bergh.
Upernavik, Greenland	29.68	753 9	29.73	755.1	—23.6	—30.9		e.			2		1					misty	
Vestervig	29.32	744.8	29.41	747.1	42.4	5.8	93	ssw.			7		0						Loerer Oesterbol.
Egyptian.																			
Cairo	30.02	762.4			63.5	17.5		w.	2.9	1.3		0	8 k			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.39	746.5	30.05	763 2	51.4	10.8	80	se.			1		9 cn	sse.	se.	0	0		M. Labroue, Director.
Alençon, Normal School	29.27	743 4	29.82	757.4	48.2	9	97				1		2 k			0.087	2.2	slightly cl'dy	M. Nicot, Director
Arras, Normal School	29.45	748.1			52.9	11.6	69	n.			2		2			0.087	2.2	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	30.01	762.3	30.09	764.3	58.3	14.6	74	e.			1		8		se.	0.209	5.3	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.34	745.2	29.89	759.3	53.1	11.7	71	ssw.			2		8		sw.	0.126	3.2	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.50	749.4	25 77	756.2	51.1	10.6	65	sw.			2		5		sw.	0.122	3.1	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.08	738.5	29.92	759.9	52.7	11.5	83	s.			1		10 n		n.	0.063	1.6	raining	M. Gobin, Director.
Bordeaux, Observatory	29.69	754.1	29.95	760.8	52.2	11.2	86	wsw.			1		10			0.020	0.5	raining.	M. Rayet, Director.
Bourges, Normal School	29.39	746.6	29.95	760.7	51.8	11	97	sw.			2				sw.	0.039	1.0		M. Sauvageot, Director.
Brest, Naval Observatory	29.53	750.0	29.77	756.2	50.7	10.4	72	w.			4		3		w.	0.120	3.2		M. de Kermarée, Dir.
Caen, Normal School	29.62	752.4	29.70	754.3	53.2	11.8	98	w.			1		5		w.	0.04	1.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.58	751.2	29.90	759.4	50.9	10.5	95	ne.			2		10			0.150	3.8	covered	M. Jadot, Director.
Charleville, Normal School	29.24	742.8	29.76	756 0	48.2	9.0	86	se.			1		10			0	0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.58	726 0	29.93	760 2	56.5	13.6	60	se.			2		10			0	0		M. Alluard, Director.
Cluny, Normal School	29.13	739.9	30.00	762.0	54.1	12.3	80	s.			1		2	n.		0.378	9.6	slightly cl'dy	M. de Villemontée, Dir.
Commercy, Normal School	29.04	737.5	29.91	759 7	49.5	9.7	89	sw.			4		8 n	sw.	sw.	0.051	1.3	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.51	698.7	30.09	764.2	49.1	9.5	61	s.			1		3 n			0	0		M. Jarach, Director.
Grénoble, du Rhone	28.95	735.3	30.08	764 0	56.3	13.5	64	e.			1		5		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.24	742.6	30.01	762.3	50.7	10.4	74	nnw.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28 28	718 4	29.85	758.2	51.8	11.	75	sw.			1		10 n		sw.	0.08	2.	covered	M. Delorme, Dir.
Lescar, Normal School	29.39	746.4	29.95	760 7	62.6	17.0	56	sw.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.69	754.0	29.79	756.6	52.9	11.6	50	sw.			2		8		sw.	0.047	1.2	¾ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28.93	734 7	29.98	761 5	55.2	12.9	65	s.			4		5 cn			0.098	2.5	cloudy	M. André, Director.
Mans, Normal School	29.50	749.2	29.81	757.1	51.3	10.7		w.			6		8 kn		w.	0.102	2.0	very cloudy	M. Richard, Director
Marseille, Observatory	29.82	757 3	30.08	764.1	62.6	17.0	46	e.			1		5		s.	0	0		M. Stephan, Director.
Montlouis	24.76	628.8	29.60	751.8	41.4	5.2	63	sw.	5.6	2.5			8			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.1	30.04	762.9	57.6	14.2	89	sse.			4		5		e.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.12	739.6	29.91	759.6	50.4	10.2	82	ssw.			1		kn		w.	0.154	3.9		M. Hasse, Director.
Nantes, Observatory	29.69	754.1	29.85	758.2	52.5	11.4	72	wsw.			1–4		10 n;kn		wsw.	0.256	6.5		M. Larocque, Director.
Perpignan, Observatory	29.95	760 6	30.06	763.4	57.0	13.9	67	se.	3.8	1.7			10		se.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.14	537.0			26.6	— 3.0		w.			1				w.	0	0	foggy	M. Vaussenat, Director.
Privas, Normal School	28.81	731 8	29.89	759.1	50.5	10.3	82	s.			1		n		s.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25 03	635.8			37.6	3.1	92	sw.			6		8		sw.	0.047	1.2		M. Alluard.
Rochefort, Naval Obs'y	29.92	760.0	29.95	760.8	51.4	10.8	90	ssw.			2		10			1.26	32.	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.64	752.9	29.86	758.4	49.6	9.8	86	w.			6				w.	0.272	6.9		M. Brotier, Director.
Rodez, Normal School	27.82	706.7	30.00	761.9	48.0	8.9		se.			1		1 kn		ne.	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.70	754.3	29.74	755.5	52.9	11.6	65	s.			1		5	sw.		0.020	0.5	cloudy	M. Moullot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.65	753.1	29.82	757.3	53.2	11.8	69	ssw.			4		7	sw.	sw.	0.067	1.7		M. Renou, Director.
Toulouse, Observatory	29.31	744.5	30.04	762.9	53.6	12.0	80	sse.			6		8	se.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.66	753 3	29.84	757 9	52.2	11.2	86	ssw.			2		10		sw.	0.102	2.6	raining	M. de Tastes.
Versailles, Observatory	29.31	744.4	29.80	756.9	52.5	11.4	71	sw.			2		2			0.020	0.5	slightly cl'dy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29 84	757.9	29.99	761 7	56.7	13.7	79	w.	11.9	5.3			10 ks			0	0	covered	M. Cartier, Director.
German.																			
Ansbach	28.52	724.4	29.99	761.8	47.3	8.5	78	sw.			2		9	sw.		0.020	0.5		Prof. Juedt.
Bamberg	29.07	738.4	29.91	759.8	45.1	7.3	80	se.			1		6 ks			0.035	1.0		Prof. Dr. Hoh.
Berlin	29.70	754 3	29.84	758 0	50.9	10.5	73	sw.			5		10			0	0		Meteorological Institute
Breslau	29.46	748.2	29.99	761.7	48.4	9.1	77	sse.			2		6			0	0		Royal University Obs'y
Carlsruhe	29.46	748.3	29.92	759.9	54.0	12.2	66	calm			0		9	sw.		0.374	9.5		Albert Senz.
Cassel	29.11	739.5	29.83	757.6	48.4	9.1	89	s			4		8	s.		0.177	4.5		Dr. H. Möhl.
Frankfort-on-the-Main	29.50	749.2	29.87	758.7	48.2	9.0	89	ssw.			1		10			0.106	2.7		Physical Society.
Friedrichshafen	28.59	726.1	30.03	762.7	46.0	7.8	79	se.			1		8	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.63	752.6	29.72	754.9	50.4	10.2	89	ssw.			4		7			0.024	0.6		E. Preller.
Kiel	29.64	752.9	29.66	753.3	48.9	9.4	77	sw.			3		8			0.047	1.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.48	748.7	29.88	759.0	48.2	9.0	81	s.			3		9	wsw.				rainy	H. Leppig, Asst.
Magdeburg	29.63	752 6	29.82	757.4	49.1	9.5	86	ssw.			2		10	sw.		0.055	1.4		Weather Observatory.
Memel	29.98	761.5	30.03	762.7	33.8	1.0	92	s.			3		10						Issermann.
Munich	28.16	715.3	30.02	762.6	53.1	11.7	49	sw.			1		8	w.		0	0		Central Station.
Neufahrwasser	29.94	760.4	29.95	760.8	34.7	1.5	91	s.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.35	745.5	29.88	758.9	53.2	11.8	75	s.			1		10			0.063	1.6		Prof. Dicknether.
Stuttgart	28.98	736 0	29.87	758 6	53.6	12.0	67	sw.			1		8	w.		0.051	1.3		Prof. Dr. Schoder.
Wustrow	29.67	753.7	29.70	754.3	43.9	6.6	91	s.			3		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens																			Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.98	761 5	30.03	762.8	75 2	24.0	49	wsw.	16.0	7.2			5		wsw.	0	0	d. clouds	
Deesa	29.51	749.5	29.98	761.5	82.7	28.2	20	n.	4.0	1.8			2	nw.		0	0	d. clouds	
Bombay	29.92	759.9	29.96	760.9	77.2	25.1	65	wnw.	9.0	4.0			0			0	0	blue sky	
Poona, Yarrowda	28.08	713.2	29.92	759.9	84.9	29.4	11	ese.	4.0	1.8			0			0	0	blue sky	
Belgaum	27.40	695.9	29.93	760.2	78.6	25.9	38	wsw.	11.0	4.9			0			0.01	0.3	blue sky	
Lahore	29.27	743.4	30.04	763 0	65.1	18.4	34	w.	2.0	0.9			6			0	0	d. clouds	
Roorkee	29.06	738 1	29.98	761.6	66.8	19.3	24	w.	0.5	0.2			0			0	0	blue sky	
Agra	29.45	748.0	30.03	762.8	72.2	22.3	22	w.	2.0	0.9			3		w.	0	0	d. clouds	
Nagpur	28.91	734.4	29.96	761.0	79.0	26.1	25	calm	1.0	0.4			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.64	727.3	30.02	762.5	71.8	22.1	23	calm	0	0			1			0	0	blue sky	
Lucknow	29.51	749.5	29.90	759.4	68.3	20.2	24	wnw.	8.0	3.6			0			0	0	misty	
Allahabad	29.70	754.3	30.02	762.5	69.7	20.9	41	calm	0	0			3			0	0	d. clouds	
Patna	29.81	757.2	30.01	762.1	66.8	19.3	39	nw.	2.9	1.3			2	nw.	nw.	0	0		
Hazaribagh	27.94	709.7	30.00	762.1	67.4	19.7	23	wnw.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.91	759.6	29.99	761.8	75.6	24.2	35	e.	3.0	1.3			0			0	0	blue sky	
Calcutta, Alipore	29.99	761.6	30.01	762.2	69.3	20.7	41	nnw.	3.0	1.3			0			0	0	blue sky	
Dhubri	29.91	759.6	30.03	762.8	65.5	18.6	56	ne.	3.7	1.6			0			0	0	blue sky	
Chittagong	29.92	760.1	30.02	762.4	68.6	20.3	80	wsw.	5.5	2.5			0			0	0	blue sky	
Sibsagar	29.74	755.4	30.10	764.5	58.9	14.9	82	ne.	1.0	0.4			2		e.	0.05	1.3	blue sky	
Jeypore	28.55	725.3	30.03	762.8	70.9	21.6	42	nw.	3.0	1.3			2	nw.		0	0	blue sky	
Zanzibar	29.79	756.7	29.81	757.3	86.7	30.4	63	nne.	5.1	2.3			5	sw.	ese.	0	0	d. clouds	
Bellary	28.43	722.1			89.0	31.7	28	nw.				0	0			0	0	blue sky	
Trichinopoly	29.72	754.9			87.3	30.7	38	ne.	0.2	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.73	755.2	30.16	766.0	47.3	8.5	82	calm	0	0			10			0	0		Prof. Giovanni Clodig.
Milan	29.64	752.9	30.18	766.6	43.7	6.5	84	nw.	1.8	0.8			10	sw.		0.028	0.7		Prof. G.V.Schiapparelli
Padua	30.04	762.9	30.15	765.8	47.7	8.7	68	n.	1.8	0.8			10	wsw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.24	742.8	30.18	766.6	44.2	6.8	79	n.	1.3	0.6			10			0	0		Prof. F. F. Denza.
Genoa	29.92	760.0	30.12	765.0	52.7	11.5	67	ne.	2.5	1.1			10	s.		0.390	9.9		Prof. G. M. Garibaldi.
Pesaro	30.10	764.6	30.15	765.9	44.2	6.8	91	n.	4.9	2.2			10			0	0		Prof. Luigi Guidi.
Florence	29.83	757.7	30.09	764.3	55.0	12.8	69	wnw.			2		2			0.008	0.2		Prof. Costantino Pittei.
Leghorn	29.96	760.9	30.03	762.7	57.9	14.4	63	sw.	4.9	2.2			1			0	0		Prof. P. Monte.
Rome	29.90	759.4	30.08	763.9	55.8	13.2	60	w.	0	0			0			0	0		Prof. P. Tacchini.
Lecce	29.83	757.6	30.09	764.2	55.2	12.9	76	wnw.	9.8	4.4			7			0	0		Prof. C. de Giorgi.
Cosenza	29.23	742.5	30.15	765.8	47.1	8.4	73	sse.	1.8	0.8			10	se.		0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.81	757.2	30.07	763.7	62.1	16.7	57	wnw.	8.7	3.9			3			0	0		Prof. G. Cacciatore
Syracuse	30.00	762.1	30.05	763.3	56.1	13.4	75	nne.	4.3	1.9			10	ne.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.56	750.8	30.09	764.2	55.6	13.1	69	e.	1.8	0.8			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.02	762.4	30.05	763.3	27.9	— 2.3	72	n.			6		10n;k		w.	0.173	4.4	snowing	H. Hattori.
Awomori	29.94	760.5	29.98	761.5	24.0	— 4.4	59	nw.	11.9	5.3			9n;ck		w.	0.055	1.4	cloudy	K. Ogawa.
Hakodate	29.94	760.5	29.95	760.8	25.2	— 3.8	84	nw.	18.6	8.3		6 ck	0			0	0	cloudy	Y. Souma.
Hamamatsu	30.15	765.8	30.25	768.3	29.0	— 1.7	70	w			4	0	0			0.008	0.2	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.43	772.9	30.44	773.3	28.3	— 2.1	100	ne.	0.5	0.2		0	0			0.008	0.2	clear	Y. Okamoto.
Kagoshima	30.46	773.7	30.47	774.0	33.8	1.0	66	ne.			2	0	1 s			0	0	clear	
Kanazawa	30.17	766.4	30.28	769.2	28.0	— 2.2	86	w.	6.3	2.8			10s;ks		w.	0.250	6.3	overcast	S. Endo.
Kioto	30.14	765.5	30.31	769.9	28.3	— 2.1	78	wsw.	2.5	1.1		0	1 ck			inap.	inap.	clear	M. Tojima.
Kochi	30.38	771.7	30.41	772.2	32.0	0.0	100	ne.	2.3	1.0		2 ck	0	nw.		0	0	clear	K. Kusunose.
Miasaka	30.43	773.0	30.46	773.8	32.0	0.0	56	wnw.			2	0	0			0	0	clear	K. Masasaki.
Miyako	29.86	758.4	29.97	761.2	28.2	— 2.1	20	wsw.	0.3	0.1		0	1 s		nw.	0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.28	769.1	30.50	774.7	29.5	— 1.4	79	calm	0	0		0	0			0.020	0.5	clear	
Nemuro	29.77	756.1	29.82	757.4	14.0	—10.0	66	wnw.	6.0	2.7		1 k	0			0	0	clear	A Shibuya.
Niigata	30.10	764.5	30.13	765.3	30.7	— 0.7	83	nw.	23.0	10.3			10 n		w.	0.140	3.6	light snow	Satoo & Tomikawa.
Nobiru	30.01	762.3	30.03	762.7	25.5	— 3.6	84	nw.	13.6	6.1		3 cs	6 n			0.020	0.5	snowing	Yoshino & Midzushina.
Numadzu	30.13	765.3	30.16	766.1	31.4	— 0.3	64	ne.			2	0	5 s		w.	0	0	fair	T. Ohgi.
Osaka	30.33	770.4	30.35	770.8	30.2	— 1.0	56	w.	7.6	3.4		6 cs	0	w.		0	0	fair	H. Omura.
Sakai	30.35	771.0	30.36	771.2	30.8	— 0.7	84	wsw.			2		10 n		wnw.	0.189	4.8	snowing	Yamawchi & Sakamoto.
Sapporo	29.82	757.4	29.89	759.2	23.2	— 4.9	100	w.	3.2	1.4			10 n			0.040	1.0	snowing	S. Kimura.
Shimonoseki	30.30	769.7	30.45	773.4	33.0	0.6	78	nnw.			4	0	8 ks		nw.	0	0	cloudy	S. Sakano.
Wakayama	30.31	769.8	30.36	771.2	33.2	0.7	66	nw.	7.1	3.2		0	8ck;ks		wnw.	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.66	753.4	29.85	758.2	77.0	25.0	79	ene.	6.5	2.9			10n;ks			0.28	7.1	overcast	The Staff.
MEXICAN.																			
Leon	24.32	617.7	30.15	765.8	46.8	8.2	79	n.	0.9	0.4		5 c	3 ck			0	0	cloudy	M. Leal & M. Pina.
Mazatlan	29.77	756.1	30.03	762.8	68.0	20.0	90	ese	1.6	0.8		6 cs	0	sw.		0	0	hazy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.67	753.6	29.67	753.6	50.5	10.3		sw.			5					0.012	0.3		
Groningen	29.63	752.7	29.69	754.1	48.7	9.3		sw.								0.130	3.3		
Helder	29.60	751.7	29.60	751.7	47.1	8.4		ssw.			4					0	0		
Hellevoetsluis	29.64	752.9	29.64	752.9	51.8	11.0	81	wsw.			3					0.079	2.0		
Utrecht	29.64	752.8	29.69	754.2	50.2	10.1	72	ssw.			3		6			0.051	1.3	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.95	760.6			77.5	25.3	91	nw.	0.5	0.2			9			1.976	50.2		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.06	738.0	29.12	739.6	43.9	6.6	65	s.	31	14			10			0.728	18.5	raining	
Brono	29.02	737.0	29.06	738.0	46.4	8.0	58	s.			6		8			0	0		
Christiania	29.20	741.7	29.35	745.4	40.5	4.7	98	s.	16	7			10			0.201	5.1		
Gjæsvær	29.22	742.3	29.25	742.9	32.7	0.4		s.			2		10			0.205	5.2		
Lodingen	29.07	738.3	29.11	739.5	37.6	2.8	72	s.			1		10			0.102	2.6		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.10	764.6	30.19	766.8	63.0	17.2	61	calm	1.8	0.8			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	756.0	30.11	764.7	55.8	13.2	95	sw.	5.6	2.5			10			0.555	14.1		The Staff.
Ponta Delgada, Azores	30.24	768.0	30.31	769.8	58.3	14.6	65	n.	5.6	2.5			3			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.03	762.7	30.07	763.7	68.5	20.3	68	ne.			4		2			0	0		
San Salvador, Congo	28.04	712.1	29.87	758.6	77.0	25.0	89	s.			2		10			0.827	21.0		
Serra da Estrella	25.25	641.3	30.08	764.0	38.8	3.8	100	w.			4		10			1.173	29.8	rain & fog	
RUSSIAN.																			
Akmolinski	28.87	733.2	30.02	762.5	19.0	— 7.2	100	sw.	27	12			10 n			0.043	1.1		Major K. Lasarew.
Archangel	29.65	753.2	29.67	753.7	24.8	— 4.0	80	wsw.	9	4		0	0			0	0		Capt. Sselliwerstow
Ashurada	30.18	766.6	30.08	764.2	47.3	8.6	89	w.	22	10			10 kn			0.043	1.1		
Astrakhan	30.31	769.9	30.23	767.9	24.8	— 4.0	91	n.	9	4			10			blank	blank	h'vy clouds	Capt. Wisganow.
Baku	30.17	766.3	30.12	765.1	41.0	5.0	89	n.	13	6			9 kn			0.067	1.7		
Barnaul	29.72	755.0	30.27	768.8	14.0	—10.0	69	s.	13	6			5			0	0	light clouds	Meteorological Office.
Bielosersk	29.60	751.9	30.10	764.5	25.0	— 3.9	62	sse.	2	1		3 cs	0			0	0		
Dorpat	29.81	757.1	30.06	763.6	32.9	0.5	76	s.	7	3		c	10 ks			0	0		Observatory.
Ekaterinburg	28.85	732.7	29.87	758.6	19.4	— 7.0	81	wsw.	13	6			9			0	0		Meteorological Obs'y
Elissawetgrad	30.03	762.8	30.51	775.0	30.0	— 1.1	67	se.	7	3		0	4 k			0	0		
Kasan	29.78	756.5	30.07	763.8	20.1	— 6.6	70	w.	16	7			10			0	0		Observatory.
Kem	29.69	754.0	29.74	755.3	29.8	— 1.2	80	sw.	22	10			10 ks			0	0	hvy. clouds	
Kerten	30.26	768.7	30.29	769.3	31.8	— 0.1	85	ne.	9	4			10 n			0	0		Lagorio & Sastyrea.
Kief	29.80	756.9	30.48	774.1	30.4	— 0.9	71	se.	9	4		0	1 ks			0	0		Observatory.
Koslov	29.87	758.8	30.43	772.8	17.2	— 8.2	69	wsw.	7	3		0	1 s			blank	blank		
Igov	29.93	760.2	30.57	776.4	20.8	— 6.2	81	calm	0	0			0			0	0		R. I. Ssaweljew, Engin'r.
Libau	29.95	760.8	29.98	761.4	33.3	0.7	89	sse.	13	6			10			0	0		[illegible]
Lugan	30.28	769.0	30.50	774.6	23.7	— 4.6	65	n.	9	4			4			0	0		Meteorological Obs'y
Moscow	29.84	757.8	30.35	771.0	22.6	— 5.2	79	w.	4	2		3 cs	0			0	0		Meteorological Obs'y
Nertschinsk	27.92	709.2	30.46	773.7	3.2	—16.0	77	calm	0	0			9			0	0	light clouds	
Nikolaiev	30.53	775.5	30.60	777.3	33.4	0.8	65	ne.	13	6		0	4 kn			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	29.83	757.7	29.92	759.9	—10.5	—23.6	74	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.53	775.5	30.67	779.1	19.6	— 6.9	46	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Siang.
Petro-Alexandrovsk	29.50	749.4	29.87	758.6	41.5	5.3	72	se.	1.1	0.5	.....	.....	10	.....	.....	.....	.....	raining	Walter.
Petrozavodsk	29.72	755.0	29.92	760.3	25.9	— 3.4	72	sw.	7	3	.....	0	0	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.75	755.6	30.27	768.8	34.7	1.5	66	sse.	22	10	.....	0	0	.....	.....	0	0	.....	
Poti	30.08	764.1	30.11	764.9	42.3	5.7	94	s.	4	2	.....	.....	10 n	.....	.....	0.571	14.5	raining	
St. Petersburg	30.01	762.3	30.04	762.9	29.3	— 1.5	70	s.	9	4	.....	ck	6 s	.....	.....	0	0	light clouds	Central Physical Obs'y.
Samarkand	27.46	697.5	29.95	760.7	48.0	8.9	60	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	Dresch.
Semipalatinsk	29.65	753.0	30.36	771.2	15.6	— 9.1	75	sw.	9	4	.....	.....	6	.....	.....	0	0	.....	Major Lasarew
Sevastopol	30.08	763.9	30.30	769.6	35.6	2.0	64	ne.	27	12	.....	0	5 n	.....	.....	0	0	.....	
Staroi Bykhov	29.79	756.6	30.37	771.5	31.6	— 0.2	61	sse.	20	9	.....	2 c	0	.....	.....	0	0	light clouds	Carl Hagen.
Tashkend, Laboratory	28.32	719.2	30.04	763.0	39.7	4.3	45	calm	0	0	.....	.....	1 k	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	28.63	727.1	30.09	764.2	41.5	5.3	60	n.	7	3	.....	.....	10	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.49	698.2	30.18	766.6	17.2	— 8.2	59	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Sariono.
Viatka	29.30	744.3	29.97	761.3	20.8	— 6.2	74	w.	2	1	.....	.....	10	.....	.....	0	0	.....	
Vladivostock	30.30	769.7	30.37	771.4	10.4	—12.0	54	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.63	752.5	30.06	763.6	38.8	3.8	82	s.	11	5	.....	4 cs	0	.....	.....	.....	.....	light clouds	Astronomical Obs'y.
Yeniseisk	29.99	761.7	30.38	771.6	15.8	— 9.0	82	ssw.	2	1	.....	.....	9	.....	.....	0.039	1.0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.76	755.9	30.32	770.1	20.1	— 6.6	79	wsw.	8.6	3.8	.....	2 c	0	w.	.....	0	0	clear	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.94	760.4	30.05	763.2	59.2	15.1	54	s.	.....	.....	.....	0	6	.....	.....	0	0	½ covered	B. J. Elin.
Bilbao, Met. Obs'y	29.90	759.5	29.96	761.0	56.8	13.8	83	se.	5.4	2.4	.....	3	7	e.	.....	0.004	0.1	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.05	687.1	30.09	764.2	45.5	7.5	93	sw.	15.4	6.9	.....	.....	10	.....	.....	0.276	7.0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.95	709.8	30.20	767.1	52.1	11.2	73	sw.	17.4	7.8	.....	.....	10	.....	.....	0.213	5.4	covered	The Staff.
Murcia, Met. Obs'y	29.98	761.4	30.11	764.8	64.8	18.2	66	wsw.	0.9	0.4	.....	3	5	e.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.05	737.8	29.95	760.8	48.4	9.1	88	sw.	4.9	2.2	.....	.....	10	.....	.....	1.075	27.3	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.10	764.5	30.17	766.2	70.0	21.1	89	ese.	7.6	3.4	.....	cs	1 k;s	se.	e.	0.01	0.3	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.04	763.0	30.10	764.4	77.2	25.1	68	ene.	4.4	2.0	.....	0	2 ks	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.10	764.5	30.20	767.0	57.0	13.9	78	nw.	3.6	1.6	.....	0	6	.....	n.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.97	761.2	30.06	763.5	73.4	23.0	83	se.	.....	.....	.....	3 c	4 k	e.	e.	0.193	4.9	d. clouds	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.52	749.8	29.56	750.8	33.1	0.6	100	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	
Umea	29.49	749.0	29.54	750.3	33.8	1.0	96	sw.	.....	.....	7	.....	10	.....	.....	0.157	4.0	.....	
Hernosand	29.47	748.4	29.52	749.7	34.9	1.6	89	ssw.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Stockholm	29.54	750.4	29.72	754.9	38.5	3.6	87	wsw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	29.75	755.7	29.81	757.2	38.8	3.8	87	sse.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.54	750.3	29.63	752.5	37.6	3.1	93	s.	19.2	8.6	.....	.....	10	.....	.....	0.189	4.8	.....	H.H. Hildebrandesson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.20	767.1	47.5	8.6	61	ene.	17	7.5	.....	.....	7	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.14	765.5	60.6	15.9	.....	nw.	.....	.....	2	.....	5	.....	.....	0	0	½ covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.00	761.9	59.0	15.0	77	sw.	.....	.....	2	.....	8 n	.....	sw.	0.10	2.5	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.33	770.4	30.42	772.7	34.5	1.4	75	w.	9	4.0	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. O. Barnes.
Alpena, Michigan	29.88	758.9	30.58	776.7	— 4.2	—20.1	91	nw.	5	2.2	.....	0	0	.....	.....	0.02	0.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.00	635.0	30.10	764.5	29.6	— 1.3	78	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.41?	697.0?	30.48?	774.2?	—11.0	—23.9	100	e.	9	4.0	.....	0	0	.....	.....	inap.	inap.	clear	F. Newman.
Atlanta, Georgia	29.09	738.9	30.31	769.9	61.0	16.1	87	sw.	8	3.6	.....	4 ck	0	w.	.....	inap.	inap.	fair	S. W. Beall.
Atlantic City, New Jersey	30.36	771.1	30.37	771.4	37.0	2.8	82	nw.	5	2.2	.....	3 k	0	nw.	.....	0.12	3.0	clear	B. A. Blundon.
Augusta, Georgia	30.14	765.5	30.34	770.0	59.5	15.3	84	sw.	2	0.9	.....	10 c	hz.	.....	.....	0	0	cloudy	W. J. Evans.
Baltimore, Maryland	30.39	771.9	30.44	773.2	43	6.1	68	n.	4	1.8	.....	.....	10 s	.....	n.	0.20	5.1	cloudy	Geo. W Feiger.
Barnegat City, New Jersey	30.37	771.4	30.39	771.9	37.4	3.0	93	n	8	3.6	.....	5 ck	3 ks	nw.	.....	0.02	0.5	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.87	733.3	30.00	777.2	—18.0	—27.8	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.61	701.3	30.61	777.5	—10.0	—23.3	100	ne.	.....	.....	1	.....	10 s	.....	nw.	blank	blank	cloudy	Thomas Morgan.
Bismarck, Dakota	28.64	727.4	30.62	777.7	—23.0	—30.0	100	calm	0	0	.....	0	6 s	.....	nw.	0	0	fair	B. O. Lenoir.
Block Island, Rhode Island	30.30	769.6	30.32	770.1	34.5	1.4	89	nw.	11	4.9	.....	2 cs	0	.....	.....	0.19	4.8	clear	J. T. Elker.
Boise City, Idaho	26.96	684.8	29.92	760.0	26.7	— 2.9	95	se.	9	4.0	.....	.....	10 n	.....	.....	0.10	2.5	light snow	James Kenealy.
Boston, Massachusetts	30.13	765.3	30.29	769.4	35.0	1.7	69	nw.	17	7.6	.....	4 c	2 k	n.	nw.	0.09	2.3	fair	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.08	764.0	69.0	20.6	93	se.	9	4.0	.....	.....	10 s	.....	se.	0	0	cloudy	John McGlone.
Buffalo, New York	29.73	755.1	30.53	775.4	24	— 4.4	90	n.	4	1.8	.....	.....	10 s	.....	w.	0.24	6.1	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.45	722.6	30.66	778.7	—10.8	—23.8	64	n.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. Schneider.
Cairo, Illinois	29.94	760.5	30.36	771.1	34.3	1.3	86	e.	11	4.9	.....	.....	10 s	.....	e.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.77	756.1	29.97	761.2	23.2	— 4.9	67	n.	5	2.2	.....	0	0	.....	.....	0.11	2.8	clear	J. H. Young.
Cape Henry, Virginia	30.38	771.0	30.40	772.1	46.0	7.8	83	n.	14	6.3	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	A. K. Alderson.
Cape May, New Jersey	30.41	772.4	30.44	773.2	39.0	3.9	86	nw.	7	3.1	.....	2 c	0	.....	.....	0.51	13.0	clear	W. E. Smith.
Cape Mendocino, California	29.39	746.5	30.09	764.3	35	1.7	100	sw.	.....	.....	2	.....	10 n	.....	.....	0.12	3.0	light rain	A. P. Leavitt.
Cedar Keys, Florida	30.31	769.9	30.33	770.4	61.4	16.3	86	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.27	768.8	30.33	770.4	58.5	14.7	87	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.45	748.0	30.34	770.6	57.9	14.4	91	sw.	4	1.8	.....	10 cs	fg.	sw.	.....	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.42	747.3	30.28	769.1	58.5	14.7	96	ne.	4	1.8	.....	10 n;	fg	.....	.....	0.38	9.7	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.86	606.0	30.14	765.5	6.9	—13.9	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.75	755.6	30.50	774.7	26.2	— 3.2	61	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.37	771.4	30.39	771.9	43.5	6.4	79	ne.	19	8.5	.....	.....	8 k;s	.....	nw.	0.04	1.0	cloudy	C. F. Dickens
Cincinnati, Ohio	29.77	756.1	30.46	773.7	36.4	2.4	85	ne.	5	2.2	.....	.....	10 s	.....	ne.	0.02	0.5	cloudy	L. Dunne.
Cleveland, Ohio	29.75	755.6	30.54	775.7	26.2	— 3.2	88	n.	5	2.2	.....	.....	10 s	.....	n.	0.13	3.3	cloudy	W. Line.
Columbus, Ohio	29.58	751.3	30.48	774.2	34	1.1	74	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	F. T. Williams
Concho, Fort, Texas	28.20	716.3	30.22	767.6	37.2	2.9	100	ne.	9	4.0	.....	.....	10 n	.....	.....	0.08	2.0	light rain	O. E. King.
Custer, Fort, Montana	27.13	689.1	30.49	774.4	—27.7	—33.2	80	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	W. J. Daily.
Davenport, Iowa	29.76	755.9	30.46	773.7	16	— 8.9	80	e.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	30.16	766.1	46.9	8.3	74	s.	1	0.4	.....	4 k	0	.....	.....	0	0	fair	J. Williams.
Dayton, Washington T'y	28.22	716.8	30.04	763.0	10	—12.2	100	w.	2	0.9	.....	.....	10 n	.....	.....	0.70	17.8	light snow	H. S. Blandford.
Deadwood, Dakota	25.40	645.1	30.32	770.1	—14.0	—25.6	100	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	G. Kingsbury.
Delaware Breakwater, Del.	30.39	771.9	30.41	772.4	36.8	2.7	91	n.	11	4.9	.....	2 c	2 s	.....	.....	0.20	5.1	fair	G. A. Martin.
Denver, Colorado	24.63	625.6	30.15	765.8	14.0	—10.0	70	s.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	F. M. Noal.
Des Moines, Iowa	29.52	749.8	30.48	774.2	8.4	—13.1	60	n.	3	1.3	.....	7 cs	0	.....	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.81	757.2	30.56	776.2	21.0	— 6.1	84	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.08	2.0	cloudy	N. B. Conger.
Dodge City, Kansas	27.51	698.7	30.25	768.3	20.3	— 6.5	84	ne.	11	4.9	.....	.....	10 s	.....	n.	0	0	cloudy	J. E. Lamouette.
Dubuque, Iowa	29.77	756.1	30.53	775.4	6.7	—14.1	65	nw.	1	0.4	.....	.....	10 s	.....	ne.	0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.76	755.9	30.58	776.7	— 7.5	—21.9	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. R. Brace.
Eastport, Maine	30.14	765.5	30.21	767.3	19.5	— 6.9	76	n.	12	5.4	.....	0	3 s	.....	n.	0.43	10.9	clear	D. C. Murphy.
Elliott, Fort, Texas	27.27	692.6	30.17	766.3	32.1	0.1	100	s.	11	4.9	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	J. C. Rickli.
El Paso, Texas	26.24	666.5	30.12	765.0	42.7	5.9	70	calm	0	0	.....	2 cs	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.79	756.7	30.56	776.2	24.2	— 4.3	80	nw.	6	2.7	.....	4 cs	0	nw.	.....	0.25	6.3	fair	C. A. Shaw.
Escanaba, Michigan	29.88	758.9	30.60	777.2	—16.3	—26.8	69	n.	4	1.8	.....	4 ck	0	.....	.....	0	0	fair	L. M. Pindell.
Fort Smith, Arkansas	29.72	754.9	30.22	767.6	39.0	3.9	89	e.	8	3.6	.....	.....	10 n	.....	.....	0.45	11.4	heavy rain	J. B. Campbell.
Galveston, Texas	30.12	765.0	30.16	766.1	66.0	18.9	93	se.	6	2.7	.....	.....	fg.	.....	se.	0.03	0.8	dense fog	E. O'C. Macinerney
Grand Haven, Michigan	29.83	757.7	30.54	775.7	6.0	—14.4	76	n.	5	2.2	.....	6 ck	0	w.	.....	inap.	inap.	fair	Joseph E. Muelle
Grant, Fort, Arizona	25.20	640.1	30.06	763.5	37.2	2.9	77	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	Chas. A. Read.
Hatteras North Carolina	30.29	769.4	30.30	769.6	62.0	16.7	87	sw.	11	4.9	.....	.....	10 s	.....	sw.	0	0	cloudy	R. M. Crawford.

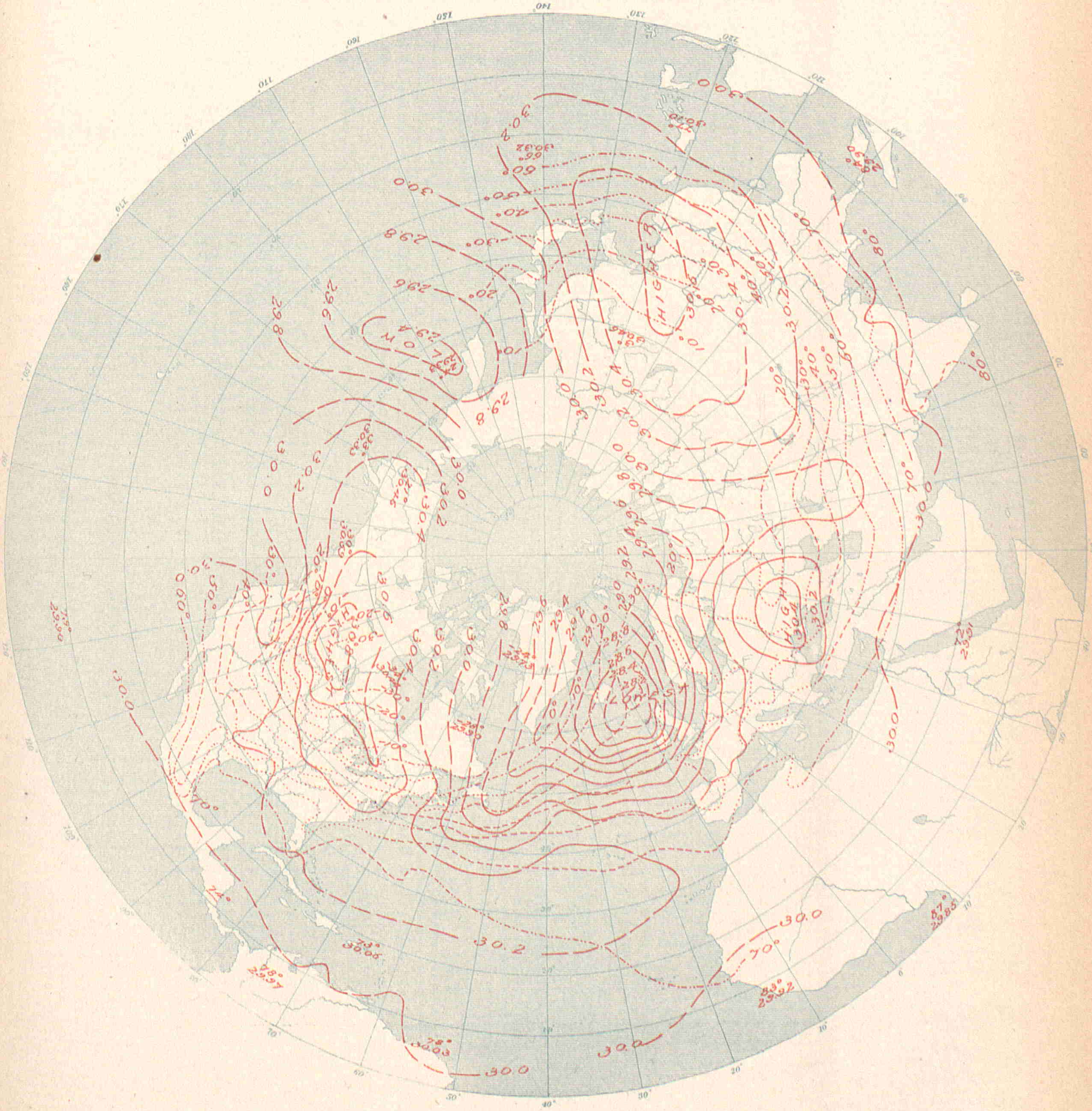
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Helena, Montana	25.97	659.6	30.32	770.1	—11	—23.9	82	nw.	3	1.3	.....	.....	10 s	.....	.....	0.27	6.9	cloudy	S. W. Morrison.
Huron, Dakota	29.02	737.1	30.54	775.7	—23.2	-30.7	100	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.59	751.6	30.44	773.2	30.2	— 1.0	70	e.	4	1.8	.....	.....	10 s	.....	e.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.09	764.3	30.12	765.0	66.1	18.9	98	se.	8	3.6	.....	0	8 s	.....	se.	0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.27	768.8	30.32	770.1	57.0	13.9	93	se.	1	0.4	.....	0	fg.	.....	.....	inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	29.74	755.4	30.44	773.2	18.0	— 7.8	83	ne.	4	1.8	.....	.....	10 s	.....	ne.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.18	766.6	30.20	767.1	70.5	21.4	90	ne.	9	4.0	.....	0	1 k	.....	ne.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.35	770.9	30.37	771.4	48.2	9.0	91	ne.	22	9.8	.....	.....	10s;fg	.....	.....	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.24	742.7	30.32	770.1	56	13.3	94	n.	4	1.8	.....	.....	10 s	.....	.....	0.37	9.4	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.69	754.1	30.53	775.4	— 3	—19.4	65	nw.	4	1.8	.....	10 c	0	nw.	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.40	746.7	30.35	770.9	20	— 6.7	56	n.	3	1.3	.....	10 cs	0	.....	.....	0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.17	740.9	30.04	763.0	17.0	— 8.3	67	calm	0	0	.....	.....	10 n	.....	.....	0.69	17.5	light snow	C. E. Butler.
Little Rock, Arkansas	29.92	760.0	30 25	768.3	43.0	6.1	93	n.	3	1.3	.....	.....	10 n	.....	.....	0.21	5.3	heavy rain	W. U. Simons.
Los Angeles, California	29.70	754.4	30.10	764.5	47.2	8.4	83	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.78	756.4	30.37	771.4	35.0	1.7	79	ne.	14	6.3	.....	.....	10 s	.....	ne.	0.07	1.8	cloudy	L. M Dey.
Lynchburg, Virginia	29.67	753.6	30.39	771.9	48.5	9.2	93	ne.	3	1.3	.....	.....	10 s	.....	ne.	0.11	2.8	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.89	759.2	30.59	777.0	—10.0	—23.3	54	w.	2	0.9	.....	5 cs	0	.....	.....	0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.30	769.6	30.31	769.9	58.2	14.6	96	sw.	11	4.9	.....	.....	10 s	.....	sw.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.81	655.6	30.56	776.2	—17.3	—27.4	41	n.	2	0.9	.....	.....	10 n	.....	.....	0.01	0.3	light snow	F. Burke.
Marquette, Michigan	29.81	757.2	30.59	777.0	— 9.0	—22.8	55	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.90	759.4	30.25	768.3	40.5	4.7	100	ne.	4	1.8	.....	.....	10 n	.....	.....	0.06	1.5	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.74	755.4	30.54	775.7	10.9	—11.7	64	nw.	8	3.6	.....	5 cs	0	nw.	.....	0.08	2.0	fair	S. W. Rhode.
Mobile, Alabama	30.21	767 3	30.25	768.3	64	17.8	97	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	H. U. Jones.
Montgomery, Alabama	30.02	762.5	30.26	768.6	64	17.8	84	s.	5	2.2	.....	0	8k;ks	.....	sw.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.53	750 0	30.63	778.0	—24	—31.1	100	nw.	5	2.2	.....	.....	10 s	.....	nw.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.02	599.9	30.24	768 1	2.5	—16.4	100	nw.	60	26.8	.....	.....	fg.	.....	nw.	0.96	24.4	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.71	754.6	30.32	770.1	41.6	5.3	96	n.	6	2.7	.....	.....	10ks;fg	.....	n.	0.05	1.3	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.24	768.1	30.36	771.1	36	2.2	61	n.	13	5.8	.....	3 cs	0	.....	.....	0.08	2.0	clear	J. H. Sherman.
New London, Connecticut	30.31	769.9	30.36	771.1	33.0	0.6	98	nw.	15	6.7	.....	3 cs	0	w.	.....	0.18	4.6	clear	J. G. Lynch.
New Orleans, Louisiana	30.16	766.1	30.22	767.6	66.3	19.1	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	M. Herman.
New York, New York	30.22	767.6	30.41	772.4	37.0	2.8	73	nw.	3	1.3	.....	0	7 s	.....	.....	0.05	1.3	fair	H. J. Penrod.
Norfolk, Virginia	30.35	770.9	30.38	771.6	48.0	8.9	86	ne.	8	3.6	.....	.....	9 ks	.....	ne.	0.01	0.3	cloudy	Wm. Davis.
North Platte, Nebraska	27.19	690.6	30.29	769.4	7.6	—13.6	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. J. Mc Lean.
Olympia, Washington T'y	29.99	761.7	30.03	762.7	23.0	— 5.0	88	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.27	6.9	light snow	J. Dascomb
Omaha, Nebraska	29.21	741.9	30.48	774.2	4.2	—15.4	72	n.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak
Oswego, New York	30.14	765 5	30.49	774.4	24.7	— 4.1	80	ne.	11	4.9	.....	.....	10 n	.....	ne.	0.13	3.3	light snow	J. G. Linsley.
Palestine, Texas	29.60	751.8	30.18	766 6	49.3	9.6	100	n.	4	1.8	.....	.....	fg.	.....	.....	0.13	3.3	dense fog	P. T. Jenkins.
Pensacola, Florida	30.24	768.1	30.27	768.8	63.8	17.7	100	se.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	M. McGauran.
Philadelphia, Pa	30.30	769.6	30.41	772.4	41.5	5.3	78	nw.	5	2.2	.....	0	8 ks	.....	nw.	0.15	3.8	clearing	T. F. Townsend.
Pike's Peak, Colorado	17.44	443.0	30.16	766.1	0.0	—17.8	83	sw.	72	32.2	.....	4 cs	0	sw.	.....	0	0	fair	H. Hall.
Pittsburg, Pennsylvania	29.63	752.6	30.49	774.4	35.5	1.9	69	ne.	4	1.8	.....	.....	10 s	.....	ne.	0.03	0.8	cloudy	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	—19.1	—28.4	100	ne.	.....	.....	4	.....	10 s	.....	.....	inap.	inap.	cloudy	G. A. Garden.
Port Huron, Michigan	29.84	757.9	30.57	776.5	10.0	—12.2	80	n.	5	2.2	.....	2 c	0	.....	.....	0.19	4.8	clear	M. H. Perry
Portland, Maine	30.23	767.8	30.28	769.1	33.0	0.6	68	nw.	9	4.0	.....	0	9 s	.....	nw.	0.05	1.3	cloudy	W. W. Eichelberger.
Portland, Oregon	29.91	759.7	29.98	761.5	25.0	— 3.9	64	e.	4	1.8	.....	.....	10 n	.....	.....	0.14	3.6	light snow	M. L. Hearn.
Prescott, Arizona	24.72	627.9	30.08	764 0	33.3	0.7	66	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass	30.24	768.1	30.26	768.6	37.0	2 8	70	nw.	18	8.0	.....	10 c	0	.....	.....	0.04	1.0	cloudy	C. N. Kitchel.
Red Bluff, California	29.71	754.6	30.08	764.0	33	0.6	96	w.	4	1.8	.....	0	2 ks	.....	w.	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.86	758.4	30.11	764.8	69.8	21.0	92	se.	12	5.4	.....	3 c	6 s	.....	se.	0	0	cloudy	L. G. Schultz.
Rochester, N. Y	29.82	757.4	30.53	775.4	23	— 5.0	73	nw.	11	4.9	.....	0	8 k	.....	nw	0.09	2.3	clearing	E. W. McGann.
Roseburg, Oregon	29.43	747.5	30.00	762.0	32	0.0	90	sw.	4	1.8	.....	.....	10 s	.....	.....	0.26	6.6	threatening	J. J. Nanry.
Sacramento, California*	30.00	762.0	30.07	763.8	32.5	0.3	94	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.78	756.4	30.44	773.2	26.3	— 3.2	84	ne.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.43	772.9	30.46	773.7	21	— 6.1	91	s.	.....	.....	2	.....	10 s	.....	.....	0	0	cloudy	Fred. H. Clarke
St. Paul, Minnesota	29.60	751.8	30.53	775.4	— 3.6	—19.8	100	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair	P. F Lyons.
St. Vincent, Minnesota	29.76	755 9	30.73	780.5	—25	—31.7	72	nw.	5	2.2	.....	7 cs	0	.....	.....	0	0	fair	C. B. Dilley
Salt Lake City, Utah	25.46	646.7	30.02	762.5	20.2	— 6.6	57	nw.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	J. Craig.
San Diego, California	29.98	761 5	30.05	763.3	46.0	7.8	83	ne.	4	1.8	.....	8 ck	0	w.	.....	0	0	cloudy	F. R. Day.
Sandusky, Ohio	29.80	756.9	30.52	775.2	30	— 1.1	78	ne.	7	3.1	.....	.....	10 ks	.....	ne.	0.05	1.3	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.39	771.9	30.42	772.7	38.0	3.3	72	nw.	20	8.9	.....	.....	10 ks	.....	nw.	0.01	0.3	cloudy	V. P. Chappel.
Sanford, Florida	30.24	768.1	30.29	769.4	60.5	15.8	83	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Marbury
San Francisco, California	29.99	761.7	30.06	763.5	40.3	4.6	88	nw.	8	3.6	.....	5c;cs	0	w.	.....	0	0	fair	N. Gorom.
Savannah, Georgia	30.23	767.8	30.32	770.1	57.5	14.2	83	sw.	2	0.9	.....	7 ck	fg.	e.	.....	0	0	fair	R. M. Geddings.
Shaw, Fort, Montana	26.69	677.9	30.54	775.7	—12	—24.4	100	ne.	7	3.1	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.97	761.2	30.15	765 8	56.7	13.7	97	e.	2	0.9	.....	.....	fg.	.....	.....	0.34	8.6	dense fog	E. N. Meekins.
Sitka, Alaska	30.52	775 2	30.59	777.0	30	— 1.1	78	e.	3	1.3	.....	.....	10 ks	.....	e.	0	0	cloudy	F. W. Fickett.
Smithville North Carolina	30.30	769.6	30.34	770.6	57.4	14.1	95	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	30.09	764.3	5.3	—14.8	66	ne.	10	4.5	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	D. Moore.
Springfield, Illinois	29.71	754.6	30.44	773.2	29.0	— 1.7	82	e.	9	4.0	.....	.....	10 s	.....	e.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.99	685.5	30.12	765.0	47.0	8.3	93	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	30.06	763.5	.....	.....	21.3	— 5.9	67	e.	35	15.6	.....	0	0	.....	.....	0.09	2.3	clear	R. Connor.
Thomas, Camp, Arizona	27.30	693.4	30.14	765.5	35.2	1.8	82	s.	.....	.....	1	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.79	756.7	30.53	775.4	26	— 3.3	88	n.	6	2.7	.....	.....	10 s	.....	se.	0.01	0.3	cloudy	A. Buell.
Unalashka, Alaska	30.31	769.9	30.33	770.4	33	0.6	89	se.	12	5.4	.....	0	4 s	.....	se.	0.28	7.1	fair	Samuel Applegat.
Vicksburg, Mississippi	29.95	760.7	30.22	767.6	60.5	15.8	96	n.	2	0.9	.....	.....	fg.	.....	.....	0.92	23.4	dense fog	C. Dill.
Washington, D. C.	30.32	770.1	30.44	773.2	39.9	4.4	79	n.	4	1.8	.....	9 cs	0	nw.	.....	0.41	10.4	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.00	660.4	30.12	765.0	15.7	— 9.1	100	e.	3	1.3	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	F. H. Brandenburg.
Wilmington, N. Carolina	30.28	769.1	30.34	770.6	60.0	15.6	81	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	L. H. Albrecht.
Yankton, Dakota	29.06	738 1	30.48	774.2	— 6.8	—21.6	71	e.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.89	759.2	30.04	763.0	45.1	7.3	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.31	744.5	29.33	745.0	24.2	— 4.3	87	n.	42	18.8	.....	.....	10 n	.....	.....	inap.	inap.	snowing	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	.....	nw.	.....	.....	1	4 ck	1 k	s.	ne.	0.25	6.3	cloudy	W. H. Jackson.
Bogota, U. S. C.	21.99	558.4	.....	.....	53.6	12.0	83	calm	0	0	.....	5 cs	2 k	se.	w.	0.280	7.1	.....	Ionquim Gomez.
Chimo, Fort, Ungava	29.74	755.4	29.90	759.4	—28	—33.3	100	w.	20	8.9	.....	0	0	.....	.....	0.01	0.3	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.07	763.8	72.2	22.3	84	n.	3	1.3	.....	3 cs	1 s	ene.	.....	0.03	0.8	fair	Robert Johnstone.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	78	25.6	86	se.	.....	.....	2	3 cs	4 k	e.	.....	0.130	3.3	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.41	747.0	29.97	761.2	78	25.6	89	calm	.....	.....	0	.....	10 ks	.....	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	90	ne.	.....	.....	1	0	8 ks	.....	ne.	0	0	cloudy	Earl Flint.
York Factory, B. A.	30.36	771.1	30.44	773.2	—34.0	—36.7	.....	nw.	12	5.4	.....	2 c	1 s	nw.	nw.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.93	760.2	29.94	760.4	77.7	25.4	80	n.	11.2	5.0	.....	0	4 k	.....	n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.91	759.6	29.97	761.3	71.6	22.0	79	n.	.....	.....	4	0	1 k	.....	n	0	0	clear	Antonio Fabre.

* Observation taken thirty-eight minutes late.

Vessels with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic																		
S. S. Alvo, Jeremie, Hayti, W. I*	30.16	766 1	76	24.4		sw.			4		6		s.	0	0	short	n.	fine.
S. S. Alleghany, Chesapeake Bay †	30.44	773.2	36	2.2		n.			2		0							clear.
S. S. Ailsa, Aux Cayes, Hayti, W. I*†	30.19	766.8	72	22.2	82	n.			1		0			0	0	sm'h		clear.
S. S. America, N. 49° 30', W. 8° —			47	8.3	77	wsw.			7		6		w.	0	0	r'gh	w.	fair.
Schr. Arthur Burton, Savannah, Ga †	30.31	769.9				calm			0					0	0			smoky.
S. S. Alps, N. 18° 05', W. 72° 41' *†	30.11	764.8	80	26.7		nw.			1		3		nw.	0	0	chop	se.	clear
Schr. Annie R. Lewis, Cienfuegos, Cuba, W. I†	30.12	765.0	68	20.0		calm			0		0			0	0			clear.
S. S. Anchoria, N. 52° 52', W. 22° 02'						w.			7		5		w			h'vy	w.	squally.
S. S. British Crown, N 50° 10', W. 14° 38'†	29.32	744 7	39	3.9		w.			7		5		w.	0	0	h'vy	w.	
S. S. Caracas, Puerto Cabello, Venezuela *†	30.00	762.0	76.5	24.7	88	calm			0				ene.	0	0	light	ne.	cloudy.
S. S. Canada, (Fr) N. 44° 22', W. 52° 28'	29.64	752.8	37.4	3		wsw.			6				wsw.	0	0	r'gh	wsw.	misty.
S. S. Chalmette, N. 27° 44' W. 79° 50' *†	30.23	767.8	69	20.6		e.			3		7		ese.	4 h'r	4 h'r	mod.	ne.	raining.
S. S. Devonia, N. 48° 27', W. 41° 02'†	29.84	757.9	35	1.7		wsw.			4		7		wsw.	7 h'r	7 h'r	h'vy	nw.	cloudy.
S. E. J. Spicer, N 36° 36', W. 37° 00'	30.31	769.9	62	16.7	88	wsw.			4		10		w.	12 h'r	12 h'r	mod.	nne.	cloudy.
S. S. Frisia, N. 49° 54', W. 15° 14'	29.36	745.7	45.5	7.5		w.			7		4		w.	3 h'r	3 h'r	h'vy	w	squally.
S. S. Grecian, N. 55° 37', W. 7° 49'	28.68	728.5	39	3.9	82	ssw.			10		10		ssw.	2 h'r	2 h'r	high	sw.	hazy
S. S. Hermann, Sandy Hook, N. J	30.40	772.1	39.2	4	85	w.			2		3		w.	6 h'r	6 h'r	sm'h	w.	clearing.
Bk. Havana, N. 24° 04', W. 81° 05' *†	30.25	768.3	79?	26.1?	70	e.			5		5		e.	0	0	short	ne.	fine.
S. S. Iowa, N. 45° 41', W. 42° 32'			46	7.8		s			4		8		s.	1 h'r	1 h'r	long	nw.	cloudy.
Bg. L. & W. Armstrong, N. 32° 13', W 73° 44'*†	30.42	772.7				wnw.			1		1		w.	0	0	mod.	ese.	fine.
S. S. Marengo, N. 48° 45'. W. 36° 19'*†	29.74	755.4	40	4.4		w.			6		5		w.	5 h'r	5 h'r	high	w.	cloudy.
S. S. Neckar, N. 42° 05', W. 60° 39'	29.87	758.7	52.0	11.1	89	var.			4–6		7		var.	snow	snow	mod.	var.	cloudy.
S. S. Orinoco, Hamilton, Bermuda			70	21.1		calm			0		0			0	0			clear.
S. S. Oregon, (Br) N. 50° 14', W. 16° 59' *	29.48	748.8	42	5.6		wsw.			6		8		wsw.	6 h'r	6 h'r	h'vy	wnw.	hail & snow
S. S. Ohio, (Am.) Liverpool, Eng*†	29.27	743.4	40	4.4	91	nw.			7		8		nw.	5 h'r	5 h'r			squally.
S. S. Pennsylvania, Liverpool, Eng			39	3.9	91	sw.			6		9		wsw.	4 h'r	4 h'r			squally.
S. S. Polynesian, N. 55° 20', W. 10° 49'	28.50	723.9	46?	7.8?		wsw.			9		7		wsw.	0	0	h'vy	wsw.	fair.
S. S. Rhynland, off St. Catharina, Belgium	29.54	750.3	46	7.8	92	wsw.			6		10		w.	3 h'r	3 h'r	mod.	w.	squally.
S. S. Sardinian, N. 55° 01', W. 14° 34'	28.80	731.5				w.			9		8		w.	sh'rs	sh'rs	h'vy	w.	clearing.
S. S. Switzerland, N. 46° 47' W. 37° 47' *†	30.01	762.2				w.			4		10		ssw.	11 h'r	11 h'r	r'gh	wnw.	snowing.
S. S. Samaria, N. 42° 50', W. 58° 30'	29.87	758.7	42	5.6		wnw.			6		10		nw.	5 h'r	5 h'r	mod.	wnw.	overcast.
S. S. Scythia, N. 42° 58', W. 49° 28'						wsw.			3		10		wsw.	4 h'r	4 h'r	mod.	wsw.	foggy.
S Salisbury, N. 29° 03', W. 73° 09'	30.30	769.5	71.4	21.9	89	ne.			3		7 kn		ne.	½h'r	½hr	mod.	e.	fair.
Bk. Tuck Sing, N. 37° 39', W. 73° 14'*†	30.34	770.6				nne.			3		5		w.	0	0	mod	nne.	fair
S. S. Valencia, N. 29° 45', W. 70° 58' †	30.36	771.1	75	23.9	84	se.			3		2		sse.	0	0	long	ese.	clear
S. S. Belgenland, N. 47° 55', W. 18° 47'*†	29.63	752.6	41	5.0	82	nw.			7				nnw.	hail	hail	h'vy	nw.	cloudy.
S. S. State of Georgia, N. 55° 16', W. 8° 44'†	28.55	725.2				sw.			8–9		10			h'vy	h'vy	r'gh	sw.	raining.
Schr. Adda Doane, Kingston, Jamaica, W. I †	30.07	763.8				n.			1		2		nne.	0	0			clear.
Bg. Alcira, Maracaybo, Venezuela*	30.01	762.2	80	26.7		nne.			2		2		ene.	0	0			hazy.
S. S. Britannic, New York Harbor, N. Y			37	2.8		n.			3		2		se.	0	0			blue sky
S. S. British Prince, N. 40° 52', W. 63° 48'†	30.10	764.5	49	9.4		wnw.			4		9		nw.			sm'h		foggy.
Bk. Chas. Stewart, N. 36° 22', W. 6° 00'						sw.			4		2		w.	0	0	sm'h	nw.	fair.
Bk. Cato, N. 39° 41', W. 46° 17' †	30.12	765.0				w.			6		8		w.	3 h'r	3 h'r	long	w.	raining.
S. S. Donau, N. 40° 29', W. 73° 47'	30.41	772.4	37.4	3		nnw.			3		2		nw.	0	0	sm'h		clear.
S. S. D. J. Foley, N. 26° 50', W. 74° 00'*†	30.24	768.1	74	23.3	90	e.			4		4		e.	0	0	mod.	ese.	hazy.
S. S. Labrador, N 49° 47', W. 2° 30'			50.0	10.0		wsw.			4		4		w.	0	0	sm'h		fair.
S. S. Habsburg, N. 41° 52', W. 63° 24'						w.			5		10		w.	8 h'r	8 h'r	light	w.	overcast.
S. S. Pavonia, N. 42° 02', W. 50° 43'	29.85	758.2	56	13.3	94	wsw.			3		9		wsw.	11 h'r	11 h'r	sl't	wsw.	cloudy.
S. Parker M. Whitmore, N. 44° 20', W. 22° 07'*†	30.03	762.7	50	10 0		nw.			7		5		nw.	1 h'r	1 h'r	large	nw.	squally.
S. S. Vaderland, N. 50° 02', W. 15° 30'			40	4.4		nw.			7		6		nw.	12 h'r	12 h'r	high	nw.	h'y squalls
S. S. Wieland, N. 49° 48', W. 26° 02'			36	2.2		nw.			8–9		6		nw.	snow	snow	hv'y	nw.	hurricane.
S. S. W. A Scholten, N. 49° 40', W. 10° 24'			42.8	6 0	91	w.			8		7		w	rain	rain	7	wsw.	
S. S. Westphalia, N. 50° 30', W. 2° 00'			50	10.0		w.			6		2		sw.	0	0	mod.		clear.
S. S. Reliance, N. 9° 14', W. 54° 49'			77	25.0		ene.			4							mod	wnw.	rainy.
S. S. Nurnberg, N. 44° 19' W. 35° 33'	30.13	765.3	50.0	10.0		w.			1		7		w.	0	0	high	nw.	cloudy
U. S. Navy Yard, Portsmouth. N. H			31	— 0.6	79	nw.	13	5.8			0			0	0			clear.
U. S. S. Alliance, N. 20° 44', W. 69° 19'	30.12	765.0	75	23.9	81	ne.			5		8		ene.	0	0	r'gh	e.	cloudy.
U. S. S. Kearsarge, Naples, Italy	30.08	764.0	57	13.9	81	sw.			1		0							clear.
U. S. S. Lancaster, Naples, Italy	30.10	764 5	58	14.4	88	s.			1		2		s.	0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.29	769.4	34	1.1	90	nw.			3		2					sm'h		fair.
U. S. S. Quinnebaug, Leghorn, Italy	30.04	763.0	60	15.6	76	wsw.			1		2		w.			sm'h		fair.
U. S. S. Swatara, Kingston, Jamaica, W. I	30.05	763.3	74	23.3	86	n.			2		2		calm	0	0	sm'h		clear.
U. S. S. Tennessee, New Orleans, La	30.22	767.6	65	18.3	100	calm	0	0			fg		calm	0.02	0.5			foggy.
U. S. S. Trenton, Naples, Italy	30.06	763.5	61	16.1	66	calm			0		2		se.					fair.
U. S. S. Vandalia, Curacoa, W. I	29.98	761.5	75	23.9	81	e.			2		5		e.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.10	764.5	65	18.3	73	nnw.			1		10	nnw.						overcast.
H. M. S. Boadicea, off Gambia river, W. Africa	29.95	760.7	70	21.1	90	nnw.			3		4	nnw.				1	nnw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.32	770.1	64	17.8	83	calm			0		2	ene.						d clouds.
H. M. S. Himalaya, N. 32° 15', W. 17° 50'	30.20	767.1	61	16.1	82	wnw.			1		*1	sse				1	wnw.	blue sky.
H. M. S Monarch, N. 33° 24', E. 24° 50'	30.06	763.5	62	16.7	72	nw.			2		8					2	wnw.	d. clouds.
H. M. S. Minotaur, Cagliari, Sardinia	30.10	764.5	59	15.0	82	s.			1		4	wnw.						d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.85	758 2	86.9	30.5	82	ese.			2		5			0	0	1	se.	d. clouds.
S. S. Lord Clive, N. 39° 28'. W. 71° 44'						n.			6		3		calm	2 h'r	2 h'r	sm'h		fine.
S. S. Prussian, N. 44° 02', W. 54° 01'			39	3.9		sw.			3		10			12 h'r	12 h'r		se.	foggy.
S. S. Dorian, N. 48° 29', W. 39° 00'			40	4.4		w.			4		8		w.	0	0	long	n.	cloudy.
S. S. Carroll, N. 43° 05', W. 65° 36'			35	1.7		n.			4		10		n.	rain	rain	short	n.	cloudy.
S S. Llandaff City, N. 46° 02', W. 40° 07'			46	7.8		sw.			4		5		sw.	0	0	mod.	sw.	fair.
S. S. Rhaetia, N. 40° 28', W. 73° 50'			39	3.9		n.			2		5		w.	0	0	sm'h		fair.
S. S. Hevelius, N. 21° 45', W. 23° 00'			66	18.9		ne.			5		2		ne.	5 h'r	5 h'r	sm'h		clear.
S. S. Rosse, N. 29° 27', W. 17° 38'	30.15	765.8	65	18.3	73	ne.			5		2		ne.	0	0			fine.
S. S. Archimede, (It) Messina, Sicily			62?	16.7?		n.			3		5		wnw.	0	0			fair.
S. S. Picqua, N. 39° 35', W. 63° 00'			55	12.8	100	nne.			3				nnw.	2 h'r	2 h'r	light	wnw.	cloudy.
S. S. Dominion, N 45° 04', W. 53° 09'*†.	29.64	752.8	40	4.4	100	sw.			3		10		sw.			sm'h	sw.	cloudy.
S. S. Ontario, off Maneighan, N. S			29.5	— 1.4		nne.			1		1		ne.	0	0	sm'h		clear.
S. S. Denmark, N. 41° 25', W. 57° 11'†	29.98	761.5	51	10.6	93	wsw.			6		9		wsw.	shr's	shr's	mod.	w.	cloudy.
S. S. Erin, N. 47° 29', W. 36° 23'			41	5.0		wsw.			5		9		w.	3 h'r	3 h'r	r'gh	w.	cloudy.
S. S. Leipzig, N. 38° 17', W. 22° 34'*	30.19	766.8	60.0	15.6	94	n.			4		7		n.	4 h'r	4 h'r	long	n.	squally.
S. S. City of Augusta, N. 32° 40', W. 77° 10'						ese.			2		10		ene.	0	0			cloudy.
S. S. Waesland, Antwerp, Belgium	29.65	753.1	52	11.1		sw.			6		3		sw.	3 h'r	3 h'r			fair.
S. S. Westernland, Jersey City, N. J			44	6.7	100	ne.			3		10		ne.	5 h'r	5 h'r			snowy.
S. S. Zaandam, N. 41° 24', W. 56° 50'			63.5?	17.5?	88	w.			4		9		wnw.	4 h'r	4 h'r	long	nw.	cloudy.
S. S. State of Nebraska, N. 40° 32', W. 72° 08'			38	3.3		nnw.			4							sm'h		clear.
S. S. State of Nevada, N. 49° 18' W. 39° 32*†	29.87	758.7	38	3.3		wnw.			6		8		wnw.	hail	hail	high	wnw.	cloudy.
S. S. Saxon, N. 41° 27', W. 70° 16'*†	30.19	766.8	37	2.8		nw.			1		4			0	0			fine.
S. S. Celtic, Liverpool, Eng*†	29.21	741.9	45	7.2		wnw.			8		9		wnw.	16 h'r	16 h'r			rain squalls.
S. S. Lepanto, N. 34° 46', E. 20° 10'	30.02	762.5	58	14.4		nnw.			2		8		ne.	0	0	sm'h	ne.	cloudy.
S. S. Romano, N 45° 37' W. 21° 34'			46	7.8		nw.			6		6		nw.	hail	hail	h'vy	nw.	fine
S. S. Salerno, New York, N. Y †	30.45	773.4	40	4.4		nw.			2		5		nw.	0	0			fine.
S. S. Antonio Lopez, Cadiz, Spain	30.17	766.3				nne.			1	6 c				0	0			fair.
Bgt. Achsah, N. 35° 03', W. 61° 15'†	30.30	769.6	68	20.0		wsw.			3		6		wnw.	0	0	mod	wnw.	cloudy.
S. Armenia, N. 49° —', W. 9° —' *	29.55	750.6	46	7.8	69	wsw.			7		5		wsw.	2 h'r	2 h'r	hv'y	wsw.	squally.
Bk. Adelaide, N. 22° 19', W. 34° 45'			74	23.3		ene.			6		2		e.	2 h'r	2 h'r	r'gh	e.	hazy.
Bk. Benjamin Dickerman, N. 31° 55', W. 76° 00'*†	30.36	771.1	71	21.7		wnw.			1		10		sw.	0	0	long	ese.	cloudy.
Bk. Bayonnaise, N. 35° 49' W. 60° 15'			57.2	14.		nne.			1		5		n.	0	0	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. Dora, N. 55° 23′, W. 25° 29′ †	28.80	731.5	33.8	1.0		wnw.			9		5		w.	4 h'r	4 h'r	h'vy	w.	heavy gale.
S. David Stewart, N. 11° 24′, W 54° 45′			76	24.4		ene.			6		3		ene.	0	0	mod.	ene.	clear.
Schr. Edith R. Seward, N. 33° 15′, W. 64° 15′†	30.34	770.6	70	21.1		wnw.			1		7		calm	0	0	long	ese.	cloudy.
Bk. Fred W. Carlon, Progreso Roads, C. A			80	26.7		e.			5				e.	0	0	sm'h	ene.	clear.
Bk. Gloire, N. 20° 00′, W. 48° 29′ *	30.10	764.5				e.			5		5?		e.	0	0	short	ene.	clear.?
Bk. George Davis, N. 34° 02′, W. 67° 59′ *†	30.28	769.1				w.			1					0	0	cross	var.	d. clouds.
Bk. Galeon, Grimsby Road, Eng						sw.			6		0			light	light			misty.
S. Hedwig, N. 41° 37′, E. 17° 36′	30.11	764.8	56.7	13.7	85	n.			2		3		n.	0	0	sm'h		fair.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.22	767.6	63	17.2		e.			2					0	0			foggy.
S. Henry, N. 37° 28′, E. 10° 33 *	30.13	765.3	59.9	15.5		wnw.			5	6 ck	0					3	wnw.	cloudy.
Schr. John L. Thomas, South Hobbles Cays, C. A †	30.00	762.0	76	24.4	86	ene.			3		2		e.	0	0			clear.
Bg. John Welsh, jr., N. 29° 29′ W. 86° 50′†	30.27	768.8				ese.			3		5		se.			sm'h	se.	fair.
Bg. Lillian, N. 15° 18′, W. 59° 00′†	30.06	763.5	78	25.6		e.			2		2		se.	0	0	mod.		clear.
S. S. Laurel, Key West, Fla †	30.19	766.8	71	21.7		ne.			3–4		4		ne.	0	0			fair.
Bg L. F. Munson, N 33° 06′, W. 55° 03′			67	19.4		wnw.			4		3		wnw.	0	0	long	se.	fair.
S. S. Madrid, Shields, Eng†	29.19	741.4	44	6.7	84	ssw.			4		5		ssw.	3 h'r	3 h'r			fair.
Schr. Norena, Fajardo, Porto Rico, W. I†	30.03	762.7				ne.			2		3		ne	2 h'r	2 h'r			fine.
Bk. Orpheus, N. 49° 36′, W. 8° 22′*	29.49	749.0	50	10.0		w.			9		10 k		nw.			h'vy	w.	squally.
S. S. Radnorshire, N. 36° 20′, E 13° 50′ *†	30.10	764.5				nw.			5		2		nw.	0	0	mod.	nw.	hazy.
S. Stephen D. Horton, N. 51° 20′, E. 2° 10′†	29.76	755.9				ssw.			6		7		ssw.	8 h'r	8 h'r	sm'h		squally.
Bk. Silica, N. 43° 39′, W. 25° 32′						wnw.			6		5		nw.	sh'rs	sh'rs	h'vy	nnw.	cloudy.
Bg. Teneriffe, Havana, Cuba, W. I	30.18	766.6				e.			3		2			0	0			fine.
S. S. City of Alexandria, N. 24° 30′, W. 79° 52′*†	30.14	765.5	75	23.9		ene.			4							sm'h	ene.	d. clouds.
S. S. City of Washington, N. 19° 50′, W. 90° 45′*†	30.05	763.3	81	27.2		e.			5							sm'h		fine.
S. S. Maasdam, N. 48° 00′, W. 30° 45′			45.7	7.6		wsw.			9							high		stormy.
S. S. Strathleven, N. 45° 14′, W. 38° 28′*	30.03	762.7	48.5	9.2	74	wsw.			4		9		w.			6	wsw.	cloudy
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	30.10	764.5	74	23.3	59	nnw.			1		0							clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.96	761.0	70.5	21.4	72	n.			4		0							blue sky.
H. M. S. Opal, Simons Bay, Cape Colony	29.90	759.4	78	25.6	57	se.			6–7		0							squally.
H. P. M. S. Rainha de Portugal, Cabinda, Guinea	29.83	757.7	81.0	27.2	90	ssw.			2		7			3 h'r	3 h'r	1		raining.
H. P. M. S. Benco, S. 5° 12′, E. 7° 04′	29.87	758.8	83.8	28.8	86	ssw.			2		6		ssw.	10 minutes		1		blue sky.
Bk. Celestina, S. 4° 13′, W. 29° 43′ *†	29.95	760.7				se.			4		2		sse.	0	0	mod.	sse.	fair.
S. S. George S. Homer, S. 43° 31′, W. 37° 58′*†	30.05	763.3				nw.			5		4		wnw.	2 h'r	2 h'r	mod.	var.	fine.
Bk Godeffroy, S. 14° 29′, W. 31° 25′	30.01	762.2	81.3	27.4	76	ne.			3		3			rain	rain	sm'h	ne.	clear.
S. Grecian, S 49° 58′, W. 47° 49′†	29.61	752.1	44	6.7	92	e.			2		10		var.	0	0	mod.	sw.	overcast.
S. Henry Failing S. 43° 37′, W 40° 02′*†	30.10	764.5	56	13.3	81	nnw.			4		8		nw.	0	0	long	ssw.	cloudy.
Bkt. Levanter, Montevideo, Uruguay*	30.06	763.5	70	21.1		nw.			4		0			0	0	sm'h		clear.
S. St. David, S. 1° 02′, W. 27° 20′*†	29.98	761.5	84	28.9	79	ese.			3		8		var.	1 h'r	1 h'r	light	ese.	hazy.
Bk. Winifred, S. 19° 42′, W. 33 40′ *†	30.00	762.0											n.	0	0		se.	
S. Orealia, S. 27° 40′, W. 25° 32′*.	29.92	760.0				sw.			2		5		sw.	2 h'r	2 h'r	long	sw.	fair.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 23° 48′, E. 140° 36′	30.32	770.1	66	18.9	64	nnw.			5		8		nnw.			mod	n.	fair.
U. S. S. Essex, Canton, China	30.25	768.3	53	11.7	86	n.			1		10							raining.
U. S. S. Hartford, N. 9° 01′, W. 123° 40′	29.90	759.4	79	26.1	91	ne.			3		5?		ne.	0	0	sm'h	n.;e.	cloudy.
U. S. S. Juniata, Shanghai, China	30.59	777.0	36	2.2	80	ne.			2		8			0	0			cloudy.
U. S. S. Monocacy, Shanghai, China	30.64	778.2	36	2.2	61	ne.			2		8		e.					fair.
U. S. S. Palos, Tientsin, China	30.65	778.5	22	— 5.6		w.			1		0							clear.
U. S. S. Ranger, Cape Deseado, Nicaragua	29.97	761.2	77	25.0	73	ene.			3		8			0	0	mod.		cloudy.
H.M.S. Audacious. Victoria harbor, Hong Kong, China			56	13.3	94	ene.			1		7		ene.					squally.
H. M. S. Cleopatria, N. 24° 26′, E. 118° 05′	30.25	768.3	58	14.4	82	n.			2		10		se.			3		d. clouds.
H. M. S. Champion, Shanghai, China	30.66	778.7	41	5.0	74	calm			0		9							d. clouds.
H. M. S. Flying Fish, N. 22° 40′, E. 115° 25′	30.25	768.3	58	14.4	70	ene.			2		10					2	e.	misty.
H. P. M. S. Pamega, Macao, China	30.26	768.5	57.2	14.0	78	n.			2		10			3 h'r	3 h'r			overcast.
S. S. Newbern, N. 30° 57′, W. 116° 25′			57	13.9	87	nnw.			2		5		nw.	0	0	gentle	wnw.	fair.
S. S. Oceanic, N. 43° 28′, E. 179° 39′	29.40	746.7	47	8.3	92	sse.			3		6		sse.	0	0	6	var.	fair.
S. S. Columbia, N. 40° 54′, W. 124° 33′ *†	30.03	764.7	44	6.7	76	nnw.			3		6		nw.			light	nw.	fair.
S. S. Oregon, San Francisco, Cal †	30.06	763.5	42	5.6	74	calm			0		0							clear.
S. S. Alameda, San Francisco, Cal			42	5.6		e.			2		0			0	0			clear.
S. S. Ancon, Point Arguello, Cal	29.99	761.7	52	11.1	79	nne.			4		9		nw.	1 h'r	1 h'r			cloudy.
S. S. City of Chester, near Point Reyes, Cal	30.06	763.5	44	6.7	76	ene.			4		0			0	0	sm'h		clear.
S. S. Queen of the Pacific, N. 40° 16′, W. 124° 26′			47	8.3	85	nw.			2		5		nw.	0	0	sm'h		fair.
S. S. State of California, Portland, Oregon			24	— 4.4	74	e.			1		10		e.					cloudy.
S. S. Eureka N. 46° 09′ W. 123° 20′			24	— 4.4	74	e.			3		0			0	0	sm'h		clear.
S. S. City of Rio de Janeiro, N. 33° 08′, E. 135° 12′						nw.			6		0		wsw.			mod.	wnw.	fair.
S. S. Colima, Acapulco, Mexico†	29.99	761.7	70	21.1	90	calm			0–1		1		calm	0	0			clear.
S. S. Granada, Acapulco, Mexico †	29.96	761.0	75	23.9	86	nw.			1		0			0	0	light	sw.	clear.
S. S. San Blas, Panama, Panama†	29.92	760.0	71	21.7	90	nw.			2		2		w.	0	0			clear.
S. S. Benalder, N. 33° 30′, E. 136° —′*	30.34	770.6	42	5.6	66	nw.			5–6		0			0	0	mod.	nw.	clear.
S. Carondelet, N. 21° 24′, E. 129° 24′ *†	30.26	768.6				ne.			5		8		ne.	0	0	mod.	nne.	cloudy.
S. St. Francis, N. 6° 00′, W. 118° 00′ *†	30.00	762.0	78	25.6	73	ne.			5		2		nnw.			sm'h	e.	clear.
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru *†	30.04	763.0	70	21.1	90	sse.			2		5		sse.			mod.	w.	fair.
U. S. S. Wachusetts, Callao, Peru *	29.99	761.7	70	21.1	100	sse.			2		8		calm			sm'h		cloudy.
H. M. S. Espeigle, S. 43° 37′, E. 172° 44′	29.82	757.4	56	13.3	87	ne.			2		4							squally.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.83	757.7	59.3	15.2	88	sse.			2		10					sm'h		overcast.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.77	756.1	64	17.8	84	wsw.			5		10							raining.
S. S. Australia, S. 15° 07′, W. 171° 16′	30.00	762.0	80	26.7	96	var.			2		6?		ene.	1 h'r	1 h'r	sm'h	sw.	overcast.?
S. S. Zealandia, S. 35° 34′, E 175° 15′	29.66	753.4	67	19.4	89	e.			9		9		e.	3 h'r	3 h'r	h'vy	ene.	
S. Ismir, S. 39° 12′, W. 90° 40′ *†	30.05	763.3				s.			2		5		s.	2 h'r	2 h'r	2	s.	rainy.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.86	758.4	67	19.4		calm			0		10					sm'h		
H. M. S. Sylvia, off Sandy Point, Patagonia	29.21	741.9	51	10.6	72	nnw.			4–6		4							squally.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, S. 32° 37′, E. 29° 36′	30.03	762.7	77	25.0	61	ssw.			1		8		ssw.	0	0	mod.	sw.	cloudy
H. M. S. Euryalus, Suakin, Egypt	29.91	759.7	72	22.2	76	ne			3		0							blue sky.
H. M. S. Tourmaline, Tamatave, Madagascar	29.81	757.2	83	28.3	79	e.			2		7							d. clouds.
S. S. Port Phillip, S. 38° 21′, E. 140° 43′	30.03	762.7	64	17.8	?	se.			2							sm'h		clear.
H. M. S. Magpie, N. 6° 10′, E. 99° 44′	29.90	759.4	83.5	28.6	71	ene.			3		3							squally.

International Chart I. February 10, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY.

By Order of the Secretary of War.

W. B. Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 11 .1884,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.12	765.0	67.3	19.6	78	se.			1		4			0	0	cloudy	Roziere.
Algiers			30.15	765.7	60.8	16.0	69	ene.			2		9			inap.	inap.	covered	Thève.
La Galle			30.13	765.3	62.2	16.8	79	e.			1		2			0	0	fair	Fonfrède.
Tunis			30.19	766.7	55.8	13.2	82	ne.			3		5			0	0		Delord.
Geriville					62.6	17.0	35	sw.			1		2			0	0	fair	Forfert.
Laghouat			30.28	769.2	68.0	20.0	85	sw.			1		0			0	0	clear	Abraham.
Biskra			30.23	767.9	62.2	16.8	74	e.			3		6			0	0	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			30.01	763.0	63.8	17.7	57	sse.	3	1.3			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.86	758.4	30.05	763.3	53	11.7	68	s.	5	2.2			3		s.	0	0	clear	Com. J. Shortt, R.N.
Melbourne, Victoria	30.01	762.2	30.10	764.5	54.0	12.2	78	sse.	10	4.5			1			0	0	fine	G. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.69	754.0	30.26	768.6	37.9	3.3	77	ne.			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.35	745.5	30.13	765.4	47.1	8.4	70	sw.	0	0			3			0	0		Dr. Wierzbiski
Eperies	29.37	745.9	30.28	769.0	40.6	4.8	84	s.			3	5 cs				0	0		Julius Mikolik.
Gratz	28.96	735.6	30.27	768.8	36.0	2.2	82	nw.			2		10			0	0		Andreas Rospini.
Hermannstadt	28.86	733.0	30.34	770.5	45.0	7.2	17	s.			4		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.74	730.1	30.14	765.6	36.3	2.4	94	ne.			1		10			0	0		The Staff.
Lemberg	29.25	742.9	30.27	768.9	40.3	4.6	78	s.			4		0			0	0		Dr. T. Stanecki.
Pola	30.12	765.1	30.24	768.0	49.6	9.8	82	sw			1		6			0	0		I. R. Hydrographic Office.
Szathmar	29.80	757.0	30.28	769.1	48.6	9.2	48	s.			2		1			0	0		Joseph Midliuszky, S. J
Szegedin	30.00	761.9	30.29	769.3	39.2	4.0	60	s			3		0			0	0		Karl Stancel.
Trieste	30.19	766.7	30.28	769.2	44.4	6.9	91	calm			0		10			0	0		Royal Academy.
Vienna	29.48	748.8	30.22	767.7	39.9	4.4	87	se.			2		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.63	727.1	30.05	763.2	43.7	6.5	97	sw.			1		3			0.551	14.0		
Brussels	29.73	755.1	29.93	760.3	46.4	8.0	69	ssw.			2	9		sw.		0.024	0.6		
Furnes	29.85	758.2	29.87	758.7	48.0	8.9	73	s.			2		0			0.024	0.6		
Maeseyck	29.84	758.0	29.97	761.2	46.6	8.1	74	w.			1		10			0.035	0.9		
British.																			
Aberdeen	29.13	739.9	29.23	742.4	38.5	3.6	63	ssw.	23	10.3			2			0.045	1.2	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			29.44	747.8	41.4	5.2	71	sw.	30	13.4			2					blue sky	John Hartnup.
Bolton, Sharples	28.92	734.6	29.45	748.0	36.6	2.6	81	s.	18	8.0			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.55?	750.6?	29.94?	760.5?	39.3	4.1	79	sw.			5		8			0.19	4.8	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.01	762.2	30.04	763.0	78	25.6	82	ne.			6		4					blue sky	Corp'l O. McGregor, A.H.O
Cardington					40.2	4.6	82	sw.			5.0		3					d. clouds	John McLaren.
Chatham, School M. E.	29.56	750.8	29.74	755.4	44.5	6.0	84	sw.			4		9			blank	blank	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.47	748.5	29.70	754.4	46.8	8.2	77	sw.			5		5					hailing	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.O.
Freetown, Sierra Leone	29.69	754.1	29.92	760.0	84	28.9	57	s.			1		0?					d. clouds?	J. W. Smith.
Galway, Queen's College	29.20	741.7	30.24	768.1	38	3.3	90	sw.			7		9			0.33	8.4	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	62.0	16.7	100	nw.			3		7					d. clouds	Sgt. F. Norris, A. H.O.
Greenwich, Royal Obs'y	29.53	750.0	29.70	754.4	45.4	7.4	80	sw.					9					thunder	The Staff.
Guernsey	29.56	750.8	29.87	758.7	45.0	7.2	92	sw.			5		8					showery	A. Collenette, F.R.M.S
Kew, Observatory	29.69	754.1	29.73	755.1	37.8	3.2	95	wsw.	21	9.4			9					raining	The Staff.
Leicester, Museum	29.30	744.2	29.56	750.8	41.2	5.1	87	sw.			2		10					raining	J. C. Smith.
Malta, Mediterranean	30.26?	768.6?	30.34?	770.6?	59.8	15.4	71	ne.			2		1			0	0	blue sky	Corpl. H. Keene, A. H. O.
Nassau, Bahamas	30.21	767.3	30.25	768.3	73.0	22.8	83	ne.			2		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.41	747.0	29.64	752.8	43.1	6.2	81	sw.			6		10					overcast	The Staff.
Plymouth	29.61	752.1	29.68	753.9	47.0	8.3	79	sw.			5		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	28.91	734.3	29.01	736.8	38.2	3.4	78						10					misty	Rev. C. Clouston, L.L.D *
Scutari Cemetery, Turkey	30.27	768.8	30.34	770.6	41.2	5.1	53	ene.			2		9					d. clouds	W. H. Lyne.
Sheffield	29.22	742.2	29.51	749.5	39.9	4.4	85	ssw.			3		5					d. clouds	W. F. Cooper.
Silloth Rectory	29.31	744.5	29.31	745.2	43.7	6.5	81	sw.			4		3			0.160	4.1	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.47	748.5	34.7	1.5	92	sw.	12	5.4			10			0.105	2.7	overcast	Rev. S. J. Perry.
Strathfield Turgiss					42.2	5.7	87	sw.			2.0		4					showery	Rev. G. H. Griffiths, F.M.S
Valencia, Observatory	29.50	749.3	29.53	750.0	45.6	7.6	51	wsw.	30	13.4			7					d. clouds	The Met'r'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.84	757.9	30.23	767.8	59.4	15.2	66	e.	6.2	2.8		0	0			0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.64	778.2	30.68	779.3	—20.0	—28.9		calm	0	0		5 cs	0			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.59	777.0	30.64	778.2	0	—17.8	94	nw.	5	2.2		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.03	778.0	30.70	779.8	—19	—28.3	100	calm	0	0		8 c	0	calm		0	0	fair	G. A. Blair.
Cornwall, Ontario	30.38	771.6	30.60	777.2	2.2	—16.6	100	ne.			1	0	2 s			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	30.04	778.2	30.69	779.5	—5.0	—20.6		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.71	780.0	30.73	780.5	—22	—30.0	60	s.	2	0.9		8 cs?	0	calm		0	0	clear?	J. McWilliams
Fort Garry, Manitoba*	29.88	758.9	30.93	785.6	—35	—37.2	100	calm	0	0		0	0			0	0	clear	James Stewart.
Fredericton, N. B	30.65	778.5	30.73	780.5	—10.9	—27.2	100	calm	0	0		0	0			0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B	30.62	777.7	30.68	779.3	14	—10.0	91	ne.	5	2.2		0	8 ks		n.	0	0	hazy	J. Chipman Seeley
Granton, Ontario	29.26	743.2	30.45	773.4	22.3	— 5.4	96	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.52	775.2	30.60	778.7	13	—10.6	96	w.	2	0.9		0	2 s			inap	inap.	fair	A. Allison.
Hamilton, Ontario	29.97	761.2	30.40	772.1	25.7	— 3.5	81	ne.			1		10 n			0.200	5.1	snowy	Geo. Dickson, B. A.
Kingston, Ontario*	30.17	766.3	30.54	775.7	11	—11.7	73	n.	4	1.8		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	30.44	773.2	30.48	774.2	6.5	—14.2	88	n.	6	2.7		3 k	0			0	0	fair	C. H. Rigby.
London, Ontario	29.44	747.8	30.40	772.1	22.8	— 5.1	93	ne.			2		10 ks			0.03	0.8	overcast	E. B. Reed.
Medicine Hat, N. W. T	28.15	715.0	30.67	779.0	—35	—37.2	87	calm	0	0		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	28.58	725.9	31.00	787.4	—38	—38.9	100	nw.	2	0.9		0	0			0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	30.44	773.2	30.67	779.0	1	—17.2	96	ne.	1	0.4			10 s		n.	inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.40	772.1	30.65	778.5	— 2.9	—19.4	100	e.				0	3 ks			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.77	756.1	30.55	776.6	7	—13.9	76	e.	5	2.2		2 k	0	sw.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.72	754.9	30.53	775.4	13.6	—10.2	74	ne.			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.95	760.7	30.75	781.0	— 3	—19.4	75	nw.	6	2.7		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.65	753.1	30.39	771.9	23	— 5.0	100	ne.	16	7.2			10 n			inap.	inap.	threatening	L. Morgan.
Port Stanley, Ontario	29.67	753.6	30.37	771.4	24	— 4.4	100	ne.	12	5.4			10 n		ne.	0.02	0.5	light snow	M. Payne.
Qu Appelle, N. W. T	28.21	716.5	31.03	788.1	—37	—38.3		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	30.28	769.1	30.69	779.5	— 2	—18.9	75	calm	0	0		10 cs	0	w.		0	0	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	30.10	764.5	30.64	778.2	—11	—23.9	74	calm	0	0		hz.	0			0	0	fair	W. H. McIntyre.
St. Andrews, N. B	30.03	778.0	30.68	779.3	9	—12.8	96	n.	3	1.3		0	hz.			0	0	clear	
St. John, N. B	30.52	775.2	30.68	779.3	8.0	—13.3	84	n.	4	1.8		0	4 k			0.060	1.5	fair	G. Hutchinson.
St. Pierre, N. F			30.24	768.0	10.4	—12.2		nw.			4								The Commandant.
Saugeen, Ontario*	29.71	754.6	30.49	774.4	16	— 8.9	96	ne.	5	2.2			10 ks			0	0	cloudy	
Stratford, Ontario	29.05	737.9	30.43	772.9	20.6	— 6.3	84	calm	0	0			10 s			0	0	overcast	W. McBride, M.A.
Sydney, C. B*	30.49	774.4	30.56	776.2	— 3	—19.4	100	calm	0	0		0	0			0	0	clear	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	30.08	764.0	30.49	774.4	19	— 7.2	84	ne.	11	4.9			10 s			0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.29	744.0	30.44	773.2	22.1	— 5.5	96	ne.	17	7.6			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.57	776.5	30.64	778 2	23	— 5.0	70	calm	0	0			10 k		w.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.90	759.4	29.93	760.2	73.5	23.1	78	sw.				0	7 s			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.67	753 6			81.5	27.5	40	ne.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.79	705.9			92	33.3	40									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.87	758.8	29.95	760.7	61.7	16.5	85	sw.			2	10						cloudy	Samuel Redolez.
Iquique	29.88	759.0	29.91	759 7	71.6	22.0	76	sw.			2	6 c						foggy	Rafael Moreno.
Niebla	29.60	751 9	29.71	754.6	59.4	15.2	80	e.			2	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.86	758.5	29.95	760.7	65.7	18.7	83	sw.			1	6 c		sw.				fair	Manuel Tobar.
Punta Corona	29.91	759.7	30.10	764.4				nw.			2		6 n			0.354	9.0	cloudy	Francisco Alvarado.
Valparaiso	29.78	756.4	29.92	759.9				se.			0		10					misty	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.52	775.1	30.54	775.7	33.6	0.9	79	ne.	7.4	3.3		5 ck	0	w.		0	0	cloudy	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.84	758 0	29.89	759 2	42.6	5.9	79	sw.	18	8.			2						Oversergent Fischer.
Fanöe	29.76	756.0	29.78	756.5	41.9	5.5	91	sw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.33	744.9	29.37	746.0	— 5.8	—21.0	100	n.			4		10						S. Kleinschmidt.
Ivigtut, Greenland	29.15	740.4	29.17	740.9	— 5.6	—20.9		calm			0		7						
Jacobshavn, Greenland	29.66	753 4	29.71	754.6	—32.8	—36.0		calm			0		1						
Stykkisholm, Iceland	28.67	728.2	28.71	729 3	18.3	— 7.6	86	ne.			8		10						A. O. Thorlacius.
Thorshavn	28.63	727.1	28 65	727.7	41.4	5.2	86	wsw.	13	6			6						Overloerer Bergh.
Upernavik, Greenland	29.52	749.9	29.57	751.1	—32.8	—36.6		calm			0		0						
Vestervig	29.57	751.0	29.66	753 3	41.2	5.1	83	sw.			7		6						Loerer Oesterbol.
Egyptian.																			
Cairo	29.96	761.0			65.5	18.6		sw.	1.1	0.5		0	2 s			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.50	749.3	30.16	766.1	43.2	6.2	100	nne.			1		10			0.567	14.4	raining	M. Labroue, Director.
Alençon, Normal School	29.40	746.8	29.95	760.8	48.6	9.2	91	calm			0		2 k			0.055	1.4	slightly cl'dy	M. Nicot, Director.
Arras, Normal School	29.57	751.0			48.0	8.9	84	nne.			4		1		w.	0.035	0.9	clear	M. Ungerer, Director.
Avignon, Normal School	30.03	762.7	30.11	764.7	55.0	12.8	79	ese.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.52	749.7	30.08	764.1	46.2	7.9	63	s.			1		10			0.378	9.6	covered	M. Saillard, Director.
Beauvais, Normal School	29.71	754 5	29.98	761.4	47.1	8.4	76	ssw.			1		8		sw.	0.055	1.4	very cloudy	M. Frère Eugène Marlè.
Besançon, Normal School	29.15	740.3	30.00	762.0	46.4	8	94	n.			1		10 n		s.	0.651	16.6	raining	M. Gobin, Director.
Bordeaux, Observatory	29.82	757 4	30.09	764 2	45.1	7.3	90	ese.			1		10			0.370	9.4	raining	M. Rayet, Director.
Bourges, Normal School	29.57	751.0	30.13	765 4	43.7	6.5	91	s.			4		n		s.	0.35	9.		M. Sauvageot, Director.
Brest, Naval Observatory	29.69	754.2	29.94	760.4	51.1	10.6	80	sw.			4		2		sw.	0.031	0.8		M. de Kermarrec, Dir.
Caen, Normal School	29.87	758.7	29.95	760.6	50.4	10.2	86	w.			1		2		w.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.66	753.3	29.98	761.6	46.0	7.8	90	ne.			1		2			0.386	9.8	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.48	748.7	30.00	761.9	45.1	7.3	11	se.			1		10			0.079	2.0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.70	729.0	30.09	764.3	43.2	6.2	91	n.			1		10			0.295	7.5	raining	M. Allnard, Director.
Cluny, Normal School	29.22	742.1	30.09	764.3	45.7	7.6	94	n.			1		10		s.	0.256	6.5	covered	M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.5	30.07	763 7	46.4	8	77	ssw.			4		10			0.024	0.6	covered	Dr. Coulet, Director.
Gap, Normal School	27.59	700.7	30.19	766.7	43.3	6.3	91	s.			1		10 n			0.335	8.5		M. Jarach, Director.
Grésque, du Rhone	29.00	736 6	30.14	765.5	51.6	10.9	85	ne.			1		10		e.	0	0		M. Kina, Director.
Grenoble, Normal School	29.31	744.5	30.09	764.3	50.0	10.	76	ne.			1		10		ne.	0	0	covered	M. Ablard, Director.
Guéret, Normal School	28.48	723 3	30.04	763 1	44.6	7	91	sw.			1		10 n		sw.	0.47	12.	raining	M. Delorme, Dir.
Lescar, Normal School	29.53	750.0	30.10	764 5	51.8	11.0	75	wnw.			1		10			0.307	7.8	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.85	758.9	29.98	761.5	53.6	12.0	57	wsw.			4		2		w.	0	0	¼ covered	L. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.5	30.06	763.6	50.5	10.3	84	sw.			1		10 n					light rain	M. André, Director.
Mans, Normal School	29.66	753.4	29.98	761.4	45.5	7.5		w.			4		5 k		w.	0.031	0.8	cloudy	M. Richard, Director
Marseille, Observatory	29.84	757.9	30.11	764 8	55.8	13.2	75	e.			1		10		s.	inap.	inap.		M. Stephan, Director.
Montlouis	24.79	629.6	29.63	752.6	40.6	4.8	64	wsw.	5.6	2.5			10.			0.016	0.4		M. Cave for Dr. Fines.
Montpellier, Normal School	29.94	760.4	30.05	763.2	55.8	13 2	86	ssw.			4		10		se.	0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.18	741.1	29.97	761.1	46.0	7.8	66	ssw.			1		n			0.366	9.3		M. Hasse, Director.
Nantes, Observatory	29.89	759.1	30.05	763.2	52.7	11.5	56	sw.			1–2		5 k; kn		wsw.	0.028	0.7		M. Larocque, Director.
Perpignan, Observatory	29.94	760.4	30.05	763.3	56.7	13.7	75	n.	7.4	3.3			10		ssw.	0.043	1.1		Dr. Fines, Director.
Pic-du-Midi, Summit	21.11	536 3			26.1	— 3.3		sw.			1		8		sw.	0.039	1.0	very cloudy	M. Vaussenat, Director.
Privas, Normal School	29.03	737.4	30.11	764.8	50.5	10.3	86	s.			4		n		s.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25 10	637.6			30.4	— 0.9	100	sw.			4		10			0.370	9.4	snow & fog	M. Allnard.
Rochefort, Naval Obs'y	30.06	763.5	30.09	764 3	48.9	9.4	86	ssw.			1		10		sw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.80	756 9	30.02	762.5	50.7	10.4	62	sw.			1					0	0		M. Brotier, Director.
Rodez, Normal School	27.86	707 7	30.05	763 3	46.2	7.9							10		ne.	0.083	2.1	raining	M. Seger, Director.
Rouen, Normal School	29.90	759.5	29.95	760 7	48.2	9	86	se.			1		5	se.		0	0	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.85	758.2	30.02	762.4	45.7	7.6	85	ssw.			1			sw.		0.063	1.6		M. Renou, Director.
Toulouse, Observatory	29.39	746.4	30.11	764 8	47.7	8.7	98	nnw.			2		10	w.		0.035	0.9	covered	M. Baillaud, Director.
Tours	29.86?	758.4?	29.86?	758.4?	49.3	9.6	79	s.			1		5	sw.	ssw.	0.134	3.4	cloudy	M. de Tastes.
Versailles, Observatory	29.50	749.3	30.03	762.8	46.4	8.0	81	sw.			2		8			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.99	761.7	30.14	765.5	47.7	8.7	89	n.	9.8	4.4			10 kn		nw.	0.689	17.5	raining	M. Cartier, Director.
German.																			
Ansbach	28.60	726.4	30.06	763.5	49.6	9.8	70	s.			2		9	s.		0	0		Prof. Jnedt.
Bamberg	29.19	741.4	30.03	762.8	43.5	6.4	73	se.			2		6 ks			0.116	3.0		Prof. Dr. Hoh.
Berlin	28.87	758.8	30.02	762.5	49.3	9.6	82	sw.			1		9			0.091	2.3		Meteorological Institute
Breslau	29.59	751.6	30.12	765.1	45.3	7.4	73	s.			2		9			0	0		Royal University Obs'y
Carlsruhe	29.58	751 4	30.09	764.2	49.1	9.5	88	s.			1		10	sw.		0.571	14.5		Albert Senz.
Cassel	29.26	743.2	29.97	761.3	49.3	9.6	68	s.			5		8	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.65	753.2	30.03	762 7	48.0	8.9	81	ssw.			1		10			0.177	4.5		Physical Society.
Friedrichshafen	28 59	726.1	30.02	762.5	49.3	9.6	67	sw.			1		3	sw.		0.102	2.0		Wilhelm, Chief Tel.
Hamburg	29.87	758.6	29.96	760 9	44.6	7.0	75	sw.			3		3			0.063	1.6		E. Prentz.
Kiel	29.83	757 7	29.85	758.1	44.6	7.0	72	sw.			2		2			0.094	2.4		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.64	752.8	30.06	763 6	50.5	10.3	69	s.			2		8	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.83	757.7	30.02	762.6	50.2	10.1	75	sw.			2		7 k	wsw.		0.091	2.3		Weather Observatory.
Memel	29.98	761.5	30.03	762.7	38.3	3.5	98	sw.			4		10					raining	Issermann.
Munich	28 21	716 6	30.08	761.0	50.0	10.0	61	ne.			2		3	ne.		0	0		Central Station.
Neufahrwasser	30.00	762.0	30.02	762.4	43.5	6.4	91	sw.			2		10			0.035	0.9	light snow	A. Lothes.
Neustadt, Palatinate	29.48	748.9	30.01	762.2	48.2	9.0	81	calm			0		10			0.208	6.8	light rain	Prof. Dicknether.
Stuttgart	29.06	738.2	29.97	761.1	50.9	10.5	76	n.			1		10			0.370	9.4		Prof. Dr. Schoder.
Wustrow	29.89	759 1	29.91	759.7	44.2	6.8	71	w.			3		8 s			0.079	2.0		Profs. Brandes & Reimer
Greek.																			
Athens																			Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.00	762.0	30.05	763 3	75.5	24.2	71	sw.	17.0	7.6			0			0	0	blue sky	
Deesa	29.53	750.1	30.01	762.1	83.3	28.5	22	wsw.	3.0	1.3			3	wsw.		0	0	d. clouds	
Bombay	29.97	761.2	30.01	762.1	77.4	25.2	69	wnw.	6.0	2.7			0			0	0	blue sky	
Poona, Yarrowda	28.11	714.1	29.95	760.6	87.1	30.6	15	w.	4.0	1.8			0			0	0	blue sky	
Belgaum	27.43	696.8	29.97	761.1	79.0	26.1	38	w.	8.0	3.6			3	w.	e.	0	0	d. clouds	
Lahore	29.30	744.3	30.07	763 9	66.6	19.2	33	calm	0	0			0			0	0	blue sky	
Roorkee	29.07	738.3	29.99	761 7	69.7	20.9	17	w.	3.0	1.3			0			0	0	blue sky	
Agra	29.48	748.6	30.05	763 3	75.2	24.0	17	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.95	735.4	30.00	762.0	80.4	26.9	19	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.68	728.5	30.06	763.5	75.3	24.2	21	calm	0	0			0			0	0	blue sky	
Lucknow	29.64	752.9	30.03	762.8	70.2	21.1	23	wnw.	8.0	3.6			0			0	0	misty	
Allahabad	29.71	754.5	30.03	762.7	71.0	21.7	40	n.	2.0	0.9			0			0	0	blue sky	
Patna	29.82	757.5	30.02	762.4	68.7	20.4	27	nw.	2.5	1.1			0			0	0	blue sky	
Hazaribagh	27.95	709.9	30.01	762.3	66.6	19.2	23	wnw.	8.0	3.6			0			0	0	blue sky	
Cuttack	29.91	759.7	29.99	761.8	79.5	26.4	31	s.	3.0	1.3			0			0	0	blue sky	
Calcutta, Alipore	29.08	761.5	30.00	762.1	68.5	20.3	47	calm	0	0			0			0	0	blue sky	
Dhubri	29.88	758.9	30.00	762.1	65.4	18.6	56	calm	1.3	0.6			0			0	0	blue sky	
Chittagong	29.95	760.7	30.04	763.0	68.6	20.3	61	w.	2.8	1.2			4			0	0	d. clouds	
Sibsagar	29.69	754.0	30.04	763.0	58.8	14.9	88	ne.	1.0	0.4			0			0	0	blue sky	
Jeypore	28.59	726.2	30.07	763.7	72.7	22.6	44	nw.	3.5	1.6			2	nw.		0	0	blue sky	
Zanzibar	29.84	758.0	29.87	758.6	84.8	29.3	66	ne.	7.4	3.3			5		ene.	0	0	d. clouds	
Bellary	28.46	722.9			88.6	31.4	24	n.	2	0.9		0	0			0	0	blue sky	
Trichinopoly	29.72	754.9			88.6	31.4	36	ese.	0.3	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.82	757.4	30.24	768.2	48.4	9.1	73	ne.	0.7	0.3			9			0	0		Prof. Giovanni Clodig.
Milan	29.70	754.4	30.24	768.1	47.3	8.5	79	ene.	1.3	0.6			10			0.059	1.5		Prof. G. V. Schiapparelli
Padua	30.13	765.2	30.24	768.1	47.7	8.7	70	calm	0	0			10	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.28	743.6	30.22	767.5	45.5	7.5	81	ne.	2.5	1.1			9	n.		0	0		Prof. F. F. Denza.
Genoa	29.99	761.7	30.19	766.7	50.9	10.5	82	ne.	3.8	1.7			10	se.		0.280	7.1		Prof. G. M. Garibaldi.
Pesaro	30.19	766.8	30.24	768.1	45.3	7.4	90	ne.	8.1	3.6			10	sw.		0	0		Prof. Luigi Guidi.
Florence	29.94	760.5	30.21	767.2	54.7	12.6	66	e.			2		10	sw.		0	0		Prof. Costantino Pittei.
Leghorn	30.04	763.1	30.11	764.9	54.7	12.6	87	ne.	1.3	0.6			10	wsw.		0.043	1.1		Prof. P. Monte.
Rome	30.03	762.8	30.21	767.3	57.0	13.9	61	w.	0.7	0.3			6			0	0		Prof. P. Tacchini.
Lecce	29.96	760.9	30.22	767.5	57.2	14.0	69	nnw.	10.5	4.7			3	n		0	0		Prof. C. de Giorgi.
Cosenza	29.30	744.3	30.22	767.6	53.6	12.0	76	se.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.97	761.1	30.22	767.6	58.1	14.5	75	ne.	3.8	1.7			5			0	0		Prof. G. Cacciatore
Syracuse	30.15	765.8	30.19	766.9	57.7	14.3	65	nne.	6.1	1.4			10	ne.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.69	754.1	30.22	767.6	56.7	13.7	62	ne.	2.5	1.1			0			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.15	765.7	30.18	766.6	30.8	— 0.7	100	nw.			7		10k;ks		nw.	0.146	3.7	cloudy	H. Hattori.
Awomori	30.04	763.0	30.08	764.0	26.7	— 2.9	65	s.	17.8	8.0			10 n;s			0.029	0.7	light snow	K. Ogawa.
Hakodate	30.01	762.3	30.02	762.6	26.6	— 3.3	100	w.	12.0	5.4			10 s			0.005	0.1	overcast	Y. Souma.
Hamamatsu	30.24	768.1	30.34	770.6	32.8	0.4	59	wnw.			4	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.46	773.8	30.48	774.2	29.7	— 1.3	89	ne.	3.5	1.5		0	0			0	0	clear	Y. Okamoto.
Kagoshima	30.48	774.0	30.49	774.4	31.0	1.1	62	n.			2	0	0			0	0	clear	
Kanazawa	30.27	768.9	30.38	771.7	30.4	— 0.9	79	se.	6.3	2.8			10s;ks		w.	0.240	6.1	overcast	S. Endo.
Kioto	30.23	767.8	30.40	772.2	30.3	— 0.9	84	calm	0	0		0	1 s			inap.	inap.	clear	M. Tojima.
Kochi	30.44	773.1	30.46	773.6	33.8	1.0	66	nnw.	4.0	1.8		0	0			0	0	clear	K. Kusunose.
Miasaka	30.44	773.1	30.47	773.9	31.0	— 0.6	72	nnw.			1	1 cs	1 ks	w.	nw.	0	0	fair	K. Masusaki.
Miyako	29.97	761.2	30.08	764.0	28.0	— 2.2	56	wsw.	4.1	1.8		1 c	0	nw.		0	0	clear	N. Homo & K. Suwa.
Nagasaki, I. M. Obs'y	30.29	769.3	30.51	774.9	30.6	— 0.8	65	calm	0	0		0	0			0	0	clear	
Nemuro	29.90	759.5	29.95	760.7	16.0	— 8.9	67	nw.	6.0	2.7		9 ck?	0	nw.		0	0	clear?	A Shibuya.
Niigata	30.25	768.3	30.29	769.3	34.4	1.3	80	w.	12.6	5.6			10ks;s		w.	0	0	cloudy	Satoo & Tomikawa.
Nobiru	30.14	765.5	30.15	765.9	29.6	— 1.2	100	nw.	8.4	3.8		0	7 ks		nw.	0	0	fair	Yoshino & Midzushina.
Numadzu	30.23	767.8	30.26	768.7	30.3	— 0.9	51	ene.			2	0	0			0	0	clear	T. Ohgi.
Osaka	30.40	772.3	30.42	772.7	29.2	— 1.6		e.	1.6	0.7		0	0			0	0	clear	H. Omura.
Sakai	30.41	772.5	30.42	772.7	28.4	— 2.0	100	wsw.			2	0	2 ks		w.	0.008	0.2	clear	Yamawchi & Sakamoto.
Sapporo	29.91	759.7	29.98	761.5	21.0	— 6.1	89	calm	0	0			10 n			1.160	29.5	snowing	S. Kimura.
Shimonoseki	30.34	770.6	30.48	774.3	33.7	0.9	86	sw.			2	0	0			0	0	clear	S. Sakano.
Wakayama	30.37	771.4	30.43	772.8	31.6	— 0.2	74	n.	0.5	0.2		0	1 ck		nw.	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.79	756.7	29.98	761.5	77.5	25.3	82	s.	11.0	4.9			8ks;ku			0.11	2.8	cloudy	The Staff.
MEXICAN.																			
Leon	24.32	617.7	30.00	762.0	57.2	14.0	76	nnw.	0.9	0.4		2 c	8 k;s			0	0	covered	M. Leal & M. Pina.
Mazatlan	29.82	757.5	30.09	764.2	67.0	19.4	89	nnw.	0.9	0.4		3 cs	0	sw.		0	0	foggy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.88	758.9	29.88	758.9	46.0	7.8		ssw.			5					0.012	0.3		
Groningen	29.85	758.3	29.91	759.7	43.9	6.6		ssw.								0.067	1.7		
Helder	29.80	756.9	29.80	756.9	43.3	6.3		ssw.			5					0.075	1.9		
Hellevoetsluis	29.87	758.7	29.87	758.7	50.7	10.4	72	ssw.			4					0.157	4.0		
Utrecht	29.85	758.3	29.91	759.7	46.0	8.3	64	ssw.			4		6			0.118	3.0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.8			79.2	26.2	81	w.	1.5	0.7			5			0.035	0.9		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.26	743.1	29.32	744.7	41.0	5.0	69	s.	29	13			10			0.787	20.0	raining	
Brono	29.08	738.7	29.12	739.7	39.2	4.0	64	s.			6		9			0	0		
Christiania	29.34	745.3	29.49	749.1	39.9	4.4	66	ssw.	13	6			9			0.043	1.1		
Gjæsvær	28.97	735.7	28.99	736.3	35.2	1.8		ssw.			4		10			0	0		
Lodingen	29.01	736.9	29.06	738.1	39.2	4.0	67	s.			4		8			0.209	5.3		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.10	764.4	30.18	766.6	64.2	17.9	53	sw.	3.8	1.7			1	n.		0.039	1.0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.78	756.4	30.12	765.0	53.6	12.0	66	n.	14.3	6.4			8			0.516	13.1		The Staff.
Ponta Delgada, Azores	29.98	761.4	30.05	763.2	59.0	15.0	89	sw.	30.4	13.6			10			0.047	1.2	light rain	
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.04	762.9	30.07	763.8	68.9	20.5	71	e.			5		6			0	0		
San Salvador, Congo	27.90	710.9	29.79	756.6	85.3	29.6	62	w.			1		8			0.079	2.0		
Serra da Estrella	25.26	641.5	30.13	765.4	34.5	1.4	93	wnw.	5.6	2.5			9			0.591	15.0		
RUSSIAN.																			
Akmolinski	28.88	733.5	30.05	763.3	10.6	—11.9	89	w.	4	2		0	0			0	0		Major K. Lasarew.
Archangel	29.72	755.0	29.74	755.5	31.1	— 0.5	90	sw.	9	4			10			0	0		Capt. Sselliwerstow
Ashurada	30.43	772.9	30.34	770.5	49.5	9.7	79	nne.	9	4		0	7 kn			blank	blank		
Astrakhan	30.58	776.8	30.50	774.8	28.2	— 2.1	69	nw.	4	2		0	2 s			0	0	light clouds	Capt. Wisganow.
Baku	30.48	774.2	30.43	773.0	37.8	3.2	79	nne.	13	6			10 kn			0	0		
Barnaul	29.48	748.9	30.02	762.5	16.9	— 8.4	82	sw.	13	6			10			0.039	1.0		Meteorological Office.
Bielosersk	29.61	752.2	30.10	764.6	30.9	— 0.6	64	s.	7	3		2 c	0			0.020	0.5		
Dorpat	29.72	755.0	29.98	761.4	36.0	2.2	85	s.	7	3			10 n			0.039	1.0		Observatory.
Ekaterinburg	29.00	736.7	30.03	762.8	18.9	— 7.3	92	sw.	18	8			10					snow-drift	Meteorological Obs'y
Elissawetgrad	30.13	765.4	30.61	777.5	30.3	2.4	45	sw.	7	3		0	0			0	0		
Kasan	30.01	762.3	30.31	769.8	15.6	— 9.1	81	wsw.	2	1			0			0	0		Observatory.
Kem	29.05	753.1	29.70	754.4	35.6	2.0	82	sw.	45	20			10 ks			0	0	h'vy clouds	
Kertch	30.44	773.2	30.47	773.8	31.1	— 0.5		ne.	7	3		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.80	757.0	30.48	774.1	34.5	1.4	45	sse.	22	10		0	0			0	0		Observatory.
Koslov	29.89	759.3	30.44	773.1	23.5	— 4.7	48	wsw.	9	4		0	4 s			0	0		
Lgov	29.95	760.6	30.58	776.6	25.3	— 3.7	62	ssw.	11	5			0			0	0		R. I. Ssaweljew, Engin'r.
Libau	29.91	759.6	29.93	760.2	37.0	3.1	96	s.	16	7			10			0.134	3.4		Libau
Lugan	30.31	769.8	30.52	775.3	30.2	— 1.0	51	ne.	9	4			8			0	0	light clouds	Meteorological Obs'y
Moscow	29.80	756.9	30.32	770.2	18.0	— 7.8	84	wsw.	4	2		0	3 ks			0	0		Meteorological Obs'y
Nertschinsk	27.91	708.8	30.44	773.2	3.6	—15.8	55	calm	0	0			0			0	0		
Nikolaiev	30.56	776.2	30.63	778.0	30.0	2.2	58	calm	0	0		0	0			0	0		Capt. Kurdakow.

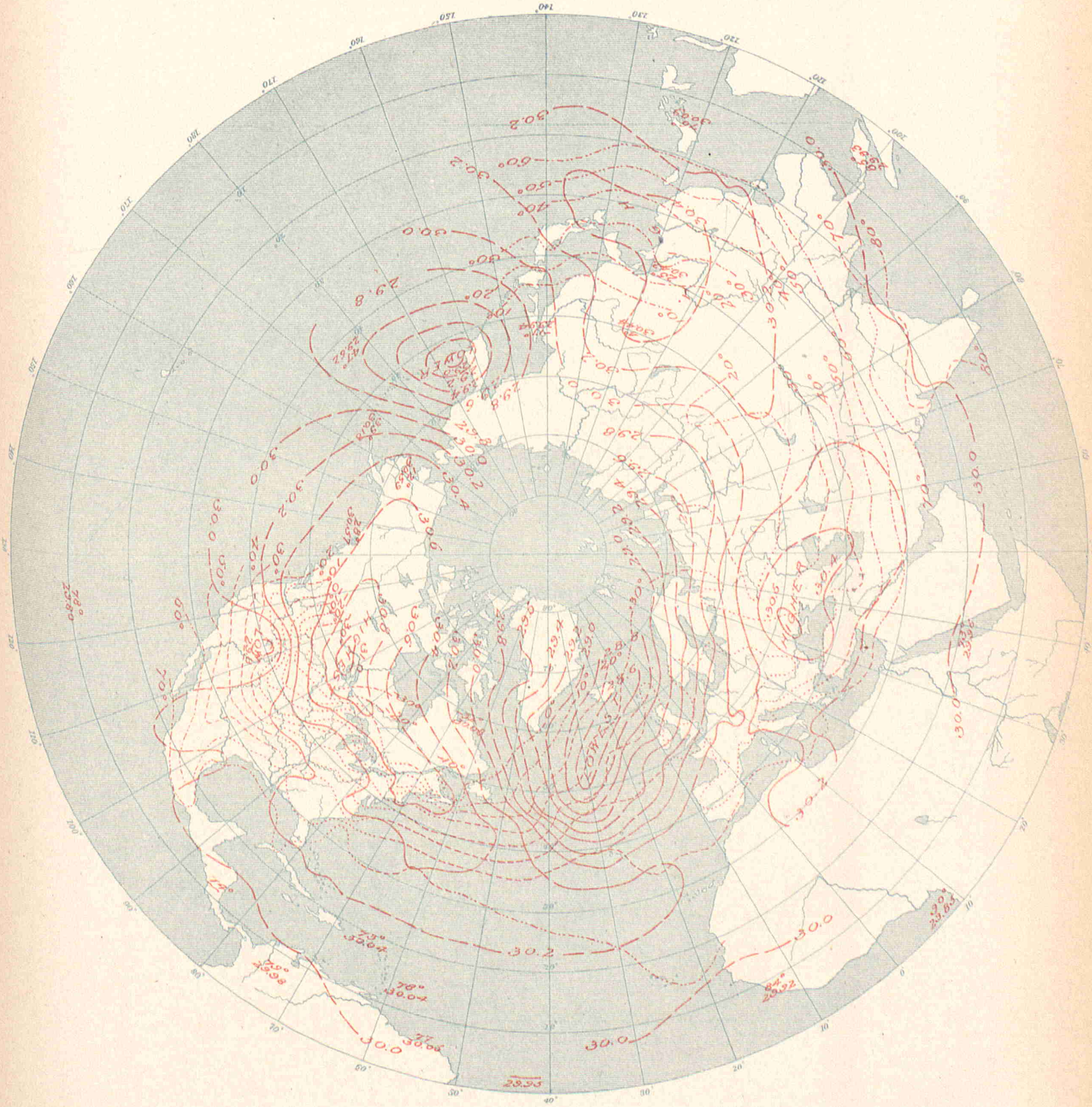
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0=10	Clouds. Amount and kind. Upper. 0=10	Clouds. Amount and kind. Lower. 0=10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor.	29.85	758.2	29.94	760.4	—16.6	—27.0	77	calm	0	0		7 ck	0						Iwanow.
Pekin, China	30.28	769.1	30.42	772.7	25.2	— 3.8	56	calm	0	0		3 cs	0						Siang.
Petro-Alexandrovsk	29.88	759.0	30.26	768.5	32.0	0.0	76	w.	7	3			10						Walter.
Petrozavodsk	29.75	755.6	29.96	760.9	23.7	— 4.6	90	wsw.	11	5			10			0	0		Dr. Bergmann.
Pinsk	29.78	756.4	30.30	769.6	36.3	2.4	66	sse.	18	8		0	0			0	0		
Poti	30.29	769.4	30.32	770.2	41.4	5.2	83	calm	0	0			10 n			0.217	5.5	raining	
St. Petersburg	29.95	760.8	29.98	761.4	31.1	— 0.5	85	sse.	13	6			10 n			0	0		Central Physical Obs'y.
Samarkand	27.72	704.0	30.28	769.0	39.6	4.2	82	w.	7.8	3.5			10 n						Dresch.
Semipalatinsk	29.46	748.3	30.17	766.4	15.3	— 9.3	84	calm	0	0			4			0	0		Major Lasarew
Sevastopol	30.22	767.7	30.45	773.4	38.3	3.5	46	ssw	7	3		0	1 s			0	0		
Starol Bykhov	29.74	755.3	30.32	770.2	33.3	0.7	65	s.	16	7		0	1 s			0	0		Carl Hagen.
Tashkend, Laboratory	28.49	723.6	30.25	768.3	33.3	0.7	96	calm	0	0			10 n					heavy clouds	Terch, A. M
Tiflis	28 87	733.2	30.36	771.2	34.3	1.3	92	calm	0	0			10			0.480	12.2	snowing	Physical Observatory.
Vernoe	27.44	697.0	30.08	763.9	26.6	— 3.0	59	calm	0	0		0	7 k						Sarlono.
Vlatka	29.43	747 4	30.11	764.7	15.4	— 9.2	65	w.	2	1			0			0	0		
Vladivostock	30.11	764 8	30.18	766.5	12.4	—10.9	75	e.	9	4			8 ks			0	0		
Warsaw	29.71	754.7	30.15	765.7	45.7	7.6	76	sw.	11	5		0	8 k						Astronomical Obs'y.
Yeniseisk	29.56	750 7	29.86	758.4	19.6	— 6.9	85	w.	11	5			7			0.035	0.9		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.66	753.4	30.19	766.6	18 8	— 7.3	75	sw.	3.7	1.7		0	7 ks		s w.	0	0	fair	Bachmetieff.
Spanish.																			
Barcelona, Met. Obs'y	29.92	759 9	30.03	762.7	57.6	14.2	87	ese.				0	5 k			0	0	½ covered	B.J.Elin.
Bilbao, Met. Obs'y	30.07	763.7	30.13	765.2	51.3	10.7	86	nw.	0.9	0.4			10			0.417	10.6	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.07	687.5	30.11	764.9	42.3	5.7	86	sw.	8.7	3.9			10			0.138	3.5	covered	Domingo Martin.
Madrid, Royal Obs'y	27.82	706.6	30.12	765.0	43.3	6.3	100	ne.	10.7	4.8			10			0.109	4.3	covered	The Staff.
Murcia, Met. Obs'y	29.90	759.4	30.07	763.7	63.1	17.3	74	ssw.	1.3	0.6		4	5	ene.		0	0	almost cov'd	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.17	740.8	30.07	763.8	51.8	11.0	73	sw.	3.8	1.7			5			0.134	3.4	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.10	764.5	30.17	766.2	69.9	21.1	86	se.	6.3	2.8		0	k			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.03	762 7	30.09	764.2	76.3	24.6	76	ese.	12.1	5.4		2 ck	2 ks	se.		0	0	fair	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	761.9	30.10	764.4	60.1	15.6	63	wnw.	2.1	0.9		1	2	n.	n.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	29.98	761.6	30.08	763.9	73.4	23.0	83	se.				3 s	4 k			0.028	0.7	d. clouds	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.43	747.5	29.47	748.5	34.0	1.1	98	sw.			6		10			0.098	2.5		
Umea	29.42	747.2	29.47	748.5	35.2	1.8	93	sw.			6		10			0	0		
Hernosand	29.36	745 7	29.41	747.0	36.7	2.6	85	ssw.			6		0			0.004	0.1		
Stockholm	29.54	750.2	29.71	754.7	40.6	4.8	87	sw.			2		9			0.055	1.4		
Wisby	29.74	755.4	29.80	756.9	42.4	5.8	91	wsw.			4		7			0.087	2.2		
Sub-series.																			
Upsala	29.57	751.0	29.65	753 2	39.2	4.0	89	wsw.	14.3	6.4			5	ssw.	wsw.	0	0		H.H.Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.39	771.9	40.1	4.5	49	ene.	20	9.0			10		ne.	0.024	0.6		The Observatory.
Valona			30.26	768.6	59.9	15.5		nw.			2		5			0	0	½ covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.09	764.3	62.1	16.7	64	sw.			2	e	8 n		sw.	0.15	3.8		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.52	775.2	30.61	777.5	26	— 3.3	68	n.	4	1.8			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.81	757.2	30.52	775.2	11	—11.7	80	n.	4	1.8			10 s			inap.	inap.	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.82	630.4	29.92	760.0	40.0	4.4	84	nw.	14	6.3			10 s			0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.64	702 0	30.68	779.3	—31.0	—35.0	100	e.	4	1.8		0	0			0.01	0.3	clear	F. Newman.
Atlanta, Georgia	29.11	739.4	30.33	770.4	57.0	13.9	86	s.	7	3.1		2 k	fg.	s.		0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.44	773 2	30.45	773 4	37.0	2.8	100	ne.	14	6.3			10 n		ne.	0.19	4.8	light rain	B.A.Blundon.
Augusta, Georgia	30.17	766 3	30.37	771.4	51.5	12.5	90	se.	2	0.9			hz.			0	0	dense haze	W.J.Evans.
Baltimore, Maryland	30.44	773.2	30.49	774.4	39	3.9	82	e.	4	1.8			10 n		e.	0.65	16.5	light rain	Geo. W. Felger.
Barnegat City, New Jersey	30.46	773.7	30.48	774.2	37.0	2.8	100	e.	12	5.4			ton;fg			0.06	1.5	light rain	F.L.Johnson.
Bennett, Fort, Dakota	29.01	736.8	30.74	780.8	—16.5	—26.9	71	n.	9	4.0			10 s		nw.	0.01	0.3	cloudy	A. Pritchard.
Benton, Fort, Montana	27.67	702.8	30.07	779.0	—28.2	—33.4		calm			0	0	4 s		sw.	0	0	fair	Thomas Morgan.
Bismarck, Dakota	28.80	731.5	30.78	781.8	—28.0	—33.3	100	calm	0	0		2 c	0	w.		0.03	0.8	clear	B. O. Lenoir.
Block Island, Rhode Island	30.57	776.5	30.60	777.2	33.0	0.6	83	e.	11	4.9			10 n			0.22	5.6	light snow	J. T. Elker.
Boise City, Idaho	27.17	690.1	30.13	765.3	2.8	—16.2	92	ne.	2	0.9		0	0			0.02	0.5	clear	James Kenealy.
Boston, Massachusetts	30.44	773.2	30.60	777.2	27.0	— 2.8	77	nw.	5	2.2			10 s		nw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.99	761.7	68.8	20.4	93	se.	9	4.0		0	5 s			0	0	fair	John McGlone.
Buffalo, New York	29.03	752.6	30.42	772.7	25	— 3.9	85	ne.	10	4.5			10 s			0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.58	725.9	30.79	782.1	—36.8	—38.2	73	calm	0	0		0	0			inap.	inap.	clear	A. Schneider.
Cairo, Illinois	29.80	756.9	30.22	767.6	41.8	5.4	90	n.	9	4.0			10 ;fg			0.61	15.5	light rain	W. H. Ray.
Canby, Fort, Washington Ter	30.23	767.8	30.43	772.9	17.9	— 7.8	72	ne.	15	6.7		0	0			0	0	clear	J.H.Young.
Cape Henry, Virginia	30.45	773.4	30.47	773.9	40.0	4.4	82	nw.	12	5.4			10 s			0	0	cloudy	A. K. Alderson
Cape May, New Jersey	30.41	772.4	30.44	773.2	39.0	3.9	89	e.	15	6.7			10 s		se.	0.21	5.3	cloudy	W.E.Smith.
Cape Mendocino, California	29.38	746.2	30.08	764.0	30	— 1.1	94	nw.			4		10 ks		nw.	0.07	1.8	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.28	769 1	30.30	769.6	65.0	18.3	99	ne.	8	3.6		0	0			inap.	inap.	clear	G. W. Davis.
Charleston, S. Carolina	30.28	769 1	30.34	770.6	58.0	14.4	100	ne.	4	1.8			fg.			0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.49	749.0	30.38	771.6	52.2	11.2	98	ne.	4	1.8			fg			0.03	0.8	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.29	769.4	56.5	13.6	100	ne.	1	0.4			fg.			0.09	2.3	dense fog	B. L. Goulding.
Cheyenne, Wyoming	23.80	606.0	30.13	765.3	—10.8	—23.8	100	se.	6	2.7		0	3 s			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.56	750.8	30.31	769 9	28.0	— 2.2	80	ne.	13	5.8			10 s			0.10	2.5	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.42	772.7	30.44	773.2	40.5	4.7	100	ne.	17	7.6			10 n		ne.	0.31	7.9	light rain	C. F. Dickens
Cincinnati, Ohio	29.58	751.3	30.28	769.1	45.2	7.3	82	e.	2	0.9			10 n		e.	0.44	11.2	light rain	L. Dunne.
Cleveland, Ohio	29.52	749.8	30.31	769.9	30.5	— 0.8	94	ne.	3	1.3			10 n		ne.	0.02	0.5	light rain	W. Line.
Columbus, Ohio	29.38	746.2	30.28	769.1	35.8	2.1	83	ne.	2	0.9			10 n		ne	0.12	3.0	light rain	F. T. Williams
Concho, Fort, Texas	28.04	712.2	30.06	763.5	52.2	11.2	93	w.	12	5.4			10 s		s.	0.02	0.5	cloudy	C. E. King.
Custer, Fort, Montana	27.20	690.9	30.56	776.2	—28	—33.3	80	calm	0	0			10 s			0.02	0.5	cloudy	W.J.Daily.
Davenport, Iowa	29.00	751.8	30.30	769 6	26	— 3.3	76	ne.	9	4.0			10 n			inap.	inap.	light sleet	R. R. Martin.
Davis, Fort, Texas	25 11	637.8	30.07	763.8	40.6	4.8	82	se.	1	0.4		6 c	0			0	0	fair	J. Williams.
Dayton, Washington T'y	28.61	726.7	30.43	772.9	—15.5	—26.4	100	n.	2	0.9		0	2 ks			0.30	7.6	clear	H.S.Blandford.
Deadwood, Dakota	25.49	647.4	30.41	772.4	—17.0	—27.2	100	ne.	5	2.2			10 n			inap.	inap.	light snow	G.Kingsbury.
Delaware Breakwater, Del.	30.45	773.4	30.47	773 9	36.7	2.6	92	ne.	18	8.0			10 n			0 59	15.0	light rain	G.A.Martin.
Denver, Colorado	24.03	625.6	30.15	765.8	— 4.8	—20.4	85	n.	4	1.8		0	6 s			inap.	inap.	fair	F. M. Neal.
Des Moines, Iowa	29.40	746.7	30.37	771.4	20	— 6.7	70	ne.	7	3.1			10 s		n.	0.02	0.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.03	752 6	30.38	771.6	24.1	— 4.4	73	n.	9	4.0			10 s		n.	inap.	inap.	cloudy	N.B.Conger.
Dodge City, Kansas	27.54	699.5	30.28	769.1	6.5	—14.2	87	n.	20	8.9			10 n			inap.	inap.	light snow	J.E.Lanouette.
Dubuque, Iowa	29.60	751.8	30.36	771.1	22.8	— 5.1	70	ne.	8	3.6			10 s			0.01	0.3	cloudy	J. Harvey Smith
Duluth, Minnesota	29.80	756 9	30.51	777.5	6.0	—14.4	76	ne.	7	3.1			10 s			0	0	cloudy	E.R.Brace.
Eastport, Maine	30.58	776 7	30.65	778.5	11.5	—11.4	70	n.	8	3.6		0	4 s		n.	0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.26	692.4	30.16	766.1	23.5	— 4.7	100	ne.	15	6.7			10 s			0.11	2.8	cloudy	J. C. Rickli.
El Paso, Texas	26.15	664.2	30.03	762 7	41.0	5.0	67	nw.	1	0.4		4 cs	0			0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.58	751.3	30.35	770 9	29.0	— 1.7	94	ne.	10	4.5			10 n			0.01	0.3	sleeting	C. A. Shaw.
Escanaba, Michigan	29.84	757.9	30.50	770.2	9.5	—12.5	74	n.	10	4.5		5 cs	0			0	0	fair	L.M.Pindell.
Fort Smith, Arkansas	29.59	751.6	30.09	764.3	45.0	7.2	90	calm	0	0			10 n			5.56	141.2	heavy rain	J. B. Campbell.
Galveston, Texas	30.04	763.0	30.06	764.0	66.4	19.1	91	se.	7	3.1		2 c	3 ks	se.	se.	0	0	fair	E. O'C. MacInerney
Grand Haven, Michigan	29.67	753.0	30.38	771.6	19.0	— 7.2	76	ne.	11	4.9			10 s		ne.	inap.	inap.	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.08	637.0	29.91	760.5	42.2	5.7	71	nw.	3	1.3			10 s		n.	0	0	cloudy	Chas. A. Read.
Hatteras North Carolina	30.36	771.1	30.37	771.4	51.3	10.7	100	n.	5	2.2		3 k.	0	e		0	0	clear	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	26.06	661.9	30.41	772.4	—19	—28.3	68	n.	3	1.3	.....	5 k	0	.....	.....	0	0	fair	S. W. Morrison.
Huron, Dakota	29.12	739.6	30.64	778.2	—13.4	—25.2	90	n.	18	8.0	.....	.....	10 n	.....	.....	inap.	inap	light snow.	S. W. Glenn.
Indianapolis, Indiana	29.40	746.7	30.25	768.3	35.4	1.9	84	e.	4	1.8	.....	.....	10 s; fg	.....	e.	0.07	1.8	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.01	762.2	30.04	763.0	67.0	19.4	93	se.	10	4.5	.....	0	4 s	.....	.....	0.01	0.3	fair	I. A. Reed.
Jacksonville Florida	30.28	769.1	30.33	770.4	58.8	14.9	94	e.	1	0.4	.....	4 cs	fg.	.....	.....	inap.	inap.	fair	J. W. Smith.
Keokuk, Iowa	29.57	751.1	30.27	768.8	25.2	— 3.8	90	n.	2	0.9	.....	.....	10 s	.....	n.	0.07	1.8	cloudy	F. Z. Gosewisch.
Key West, Florida	30.17	766.3	30.19	766.8	72.5	22.5	80	e.	7	3.1	.....	0	2 k	.....	e.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.38	771.6	30.40	772.1	44.2	6.8	92	ne.	22	9.8	.....	.....	10 s; fg	.....	.....	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.21	741.9	30.29	769.4	54.8	12.7	100	s.	5	2.2	.....	.....	fg.	.....	.....	0.32	8.1	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.56	750.8	30.40	772.1	17	— 8.3	83	n.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.34	745.2	30.30	769.6	25	— 3.9	68	ne.	6	2.7	.....	.....	10 n	.....	.....	0.01	0.3	light rain	T. S. Outram.
Lewiston, Idaho	29.61	752.1	30.48	774.2	— 7.0	—21.7	58	se.	2	0.9	.....	0	0	.....	.....	0.03	0.8	clear	C. E. Butler.
Little Rock, Arkansas	29.82	757.4	30.15	765.8	47.0	8.3	86	e.	2	0.9	.....	.....	10 s	.....	.....	0.51	13.0	cloudy	W. U. Simons.
Los Angeles, California	29.52	749.8	29.92	760.0	47.5	8.6	89	ne.	4	1.8	.....	2 c	3 s	nw.	w.	0.56	14.2	fair	T. S. Collins
Louisville, Kentucky	29.63	752.6	30.22	767.6	43.5	6.4	88	n.	4	1.8	.....	.....	10 s	.....	.....	0.66	16.8	cloudy	L. M. Dey.
Lynchburg, Virginia	29.70	754.4	30.42	772.7	42.0	5.6	88	ne.	3	1.3	.....	.....	10 s	.....	ne.	0.30	7.6	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.87	758.7	30.57	776.5	— 6.0	—21.1	63	n.	1	0.4	.....	3 cs	0	.....	.....	0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.38	771.6	30.39	771.9	49.2	9.6	98	n.	9	4.0	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	William Daly.
Maginnis, Fort, Montana	25.77	654.5	30.52	775.2	—27.1	—32.8	32	n.	2	0.9	.....	2 c	0	.....	.....	0.03	0.8	clear	F. Burke.
Marquette, Michigan	29.82	757.4	30.60	777.2	4.0	—15.6	67	nw.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.80	756.9	30.16	766.1	46.0	7.8	100	nw.	1	0.4	.....	.....	fg.	.....	.....	0.62	15.7	dense fog	D. T. Flannery
Milwaukee, Wisconsin	29.59	751.6	30.39	771.9	23.6	— 4.7	80	e.	15	6.7	.....	.....	10 s	.....	e	0.05	1.3	cloudy	S. W. Rhode.
Mobile, Alabama	30.19	766.8	30.23	767.8	62.3	16.8	93	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.02	762.5	30.26	768.6	54.5	12.5	90	calm	0	0	.....	2 cs	fg.	.....	.....	inap.	inap.	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.67	753.6	30.77	781.5	—27	—32.8	100	n.	15	6.7	.....	.....	10 s	.....	n.	0.08	2.0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.92	607.6	30.54	775.7	7.0	—13.9	71	nw.	30	13.4	.....	10 cs	0	.....	.....	inap.	inap.	cloudy	Edwd. A. Beals.
Nashville, Tennessee	29.58	751.3	30.10	766.8	49.6	9.8	97	e.	4	1.8	.....	.....	10ks; fg	.....	sw.	0.26	6.6	cloudy	L. N. Jesunofsky
New Haven, Connecticut	30.43	772.9	30.55	776.0	30.3	— 0.9	95	ne.	6	2.7	.....	.....	10 n	.....	.....	0.22	5.6	light snow	J. H. Sherman.
New London, Connecticut	30.55	776.0	30.60	777.2	31.0	— 0.6	94	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.10	2.5	heavy snow	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.16	766.1	64.5	18.1	91	se.	3	1.3	.....	0	3s; fg	.....	sw.	0	0	clear	M. Herman.
New York, New York	30.35	770.9	30.54	775.7	32.0	0.0	94	n.	7	3.1	.....	.....	10 n	.....	.....	0.23	5.8	light snow	H. J. Penrod.
Norfolk, Virginia	30.39	771.9	30.42	772.7	41.9	5.5	92	n.	10	4.5	.....	.....	10 n	.....	n	inap	inap.	rain	Wm. Davis.
North Platte, Nebraska	27.30	693.4	30.40	772.1	— 5.7	—20.9	94	ne.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. J. Mc Lean.
Olympia, Washington T'y	30.40	772.1	30.44	773.2	7.0	—13.9	76	ne.	1	0.4	.....	0	0	.....	.....	0.04	1.0	clear	J. Dascomb
Omaha, Nebraska	29.17	740.9	30.44	773.2	6.5	—14.2	80	n.	14	6.3	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	A. Pollak
Oswego, New York	30.13	765.3	30.48	774.2	26.2	— 3.2	77	se.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.52	749.8	30.10	764.5	60.4	15.8	87	se.	7	3.1	.....	0	8 ks	.....	se.	0	0	cloudy	P. T. Jenkins.
Pensacola, Florida	30.21	767.3	30.24	768.1	62.2	16.8	100	e.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	M. McGauran.
Philadelphia, Pa	30.38	771.6	30.49	774.4	34.5	1.4	94	ne.	8	3.6	.....	.....	10 n	.....	n.	0.40	10.2	sleeting	T. F. Townsend.
Pike's Peak, Colorado	17.40	442.0	30.12	765.0	5.0	—15.0	83	w	22	9.8	.....	.....	10 s	.....	w.	0	0	cloudy	H. Hall.
Pittsburg, Pennsylvania	29.43	747.5	30.29	769.4	43.0	6.1	93	ne.	3	1.3	.....	.....	fg.	.....	.....	0.39	9.9	dense fog	O. D. Stewart
Poplar River, Montana	.....	.....	.....	.....	—47.2	—44.0	100	n.	.....	.....	1	0	0	.....	.....	0	0	clear	G. A. Garden.
Port Huron, Michigan	29.66	753.4	30.39	771.9	22.2	— 5.4	89	ne.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.57	776.5	30.62	777.7	25.0	— 3.9	73	ne.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.35	770.9	30.42	772.7	14.0	—10.0	70	ne.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	M. L. Hearne.
Prescott, Arizona	24.55	623.6	29.91	759.7	36.2	2.3	92	s.	12	5.4	.....	.....	10 n	.....	.....	0.34	8.0	light rain	N. D. Lane.
Provincetown, Mass	30.57	776.5	30.60	777.2	32.7	0.4	79	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	C. N. Kitchel.
Red Bluff, California	29.68	753.9	30.05	763.3	30.5	— 0.8	63	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.75	755.6	30.00	762.0	69.0	20.6	85	se.	8	3.6	.....	0	8 s	.....	se.	0	0	cloudy	L. G. Schultz.
Rochester, N. Y	29.74	755.4	30.45	773.4	23	— 5.0	88	e.	8	3.6	.....	.....	10 s; hz	.....	.....	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.72	754.9	30.29	769.4	13	—10.6	80	n.	4	1.8	.....	0	7 s	.....	ne.	0.18	4.6	fair	J. J. Naury.
Sacramento, California*	29.95	760.7	30.02	762.5	35.5	1.9	84	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.58	751.3	30.24	768.1	33.7	0.9	100	e.	4	1.8	.....	.....	10 n	.....	.....	0.16	4.1	light rain	J. H. Weber.
St. Michael, Fort, Alaska	30.55	776.0	30.59	777.0	12	—11.1	89	s	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.56	750.8	30.49	774.4	9.0	—12.8	57	nw.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.96	761.0	30.92	785.4	—30	—34.4	67	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.19	639.8	29.75	755.6	24.8	— 4.0	73	calm	0	0	.....	.....	10 n	.....	.....	0.12	3.0	heavy snow	J. Craig.
San Diego, California	29.82	757.4	29.89	759.2	54.3	12.4	93	w.	6	2.7	.....	.....	10 s	.....	w.	0.82	20.8	threatening.	F. R. Day.
Sandusky, Ohio	29.61	752.1	30.33	770.4	30	— 1.1	88	ne.	14	6.3	.....	.....	10 n	.....	ne.	0.27	6.9	light rain	B. F. Hough.
Sandy Hook, New Jersey	30.51	771.9	30.54	775.7	32.0	0.0	100	ne.	18	8.0	.....	.....	10 n	.....	ne.	0.03	0.8	heavy snow.	V. P. Chappel.
Sanford, Florida	30.25	768.3	30.30	769.0	65.0	18.3	97	se.	7	3.1	.....	.....	10 n	.....	se.	0.02	0.5	light rain	J. B. Marbury
San Francisco, California	29.97	761.2	30.04	763.0	38.0	3.3	61	nw	17	7.6	.....	0	0	.....	.....	0.02	0.5	clear	N. Gorom.
Savannah, Georgia	30.24	768.1	30.33	770.4	55	12.8	86	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.72	678.7	30.57	776.5	—31	—35.0	100	w.	1	0.4	.....	3 cs	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.91	759.4	30.08	764.0	57.4	14.1	92	calm	0	0	.....	0	6 s	.....	se.	0	0	fair	E. N. Meekins.
Sitka, Alaska	30.50	774.7	30.57	776.5	28	— 2.2	70	e.	3	1.3	.....	0	6 k	.....	e	0	0	fair	F. W. Fickett.
Smithville North Carolina	30.34	770.6	30.38	771.6	54.8	12.7	97	ne.	7	3.1	.....	.....	10 s	.....	sw.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.30	718.8	30.43	772.9	— 9.0	—22.8	58	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.51	749.5	30.24	768.1	36.5	2.5	92	ne.	5	2.2	.....	.....	10 n	.....	ne.	0.25	6.3	light rain	T. B. Jennings.
Stockton, Fort, Texas	26.88	682.7	30.01	762.2	50.0	10.0	83	calm	0	0	.....	0	4 s	.....	.....	0	0	fair	J. W. Byram.
Tatoosh Id., Wash. Ter	30.36	771.1	.....	.....	23.1	— 4.9	69	e.	14	6.3	.....	0	0	.....	.....	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.15	689.6	29.98	761.5	42.2	5.7	91	calm	.....	.....	0	0	8 s	.....	se.	0	0	cloudy	R. O. Lord.
Toledo, Ohio	29.60	751.8	30.34	770.6	24.8	— 4.0	90	ne.	9	4.0	.....	.....	10 n	.....	ne.	0.01	0.3	sleeting	A. Buell.
Unalashka, Alaska	30.16	766.1	30.18	766.6	39	3.9	89	se.	20	8.9	.....	.....	10 n	.....	.....	1.29	32.8	light rain	Samuel Applegate.
Vicksburg, Mississippi	29.91	759.7	30.18	766.6	63	17.2	90	se.	8	3.6	.....	2 c	4 s	nw.	s.	0.04	1.0	fair	C. Dill.
Washington, D. C.	30.35	770.9	30.47	773.9	36.5	2.5	94	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.66	16.8	light rain	T. B. Harrison.
West Las Animas, Colorado	26.02	660.9	30.14	765.5	6.5	—14.2	100	e.	14	6.3	.....	.....	10 n	.....	e.	0.04	1.0	light snow	F. H. Brandenburg.
Wilmington, N. Carolina	30.32	770.1	30.38	771.6	53.3	11.8	91	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	L. H. Albrecht.
Yankton, Dakota	29.12	739.6	30.54	775.7	— 6.3	—21.3	80	n.	18	8.0	.....	.....	10 s	.....	n	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.64	752.8	29.79	756.7	57.0	13.9	74	e.	4	1.8	.....	0	5 k	.....	sw.	0	0	fair	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka.	28.94	735.1	28.96	735.6	35.3	1.8	83	se.	10	4.5	.....	0	7 k; n	.....	se.	0.11	2.8	fair	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	76	24.4	.....	ne.	.....	.....	1	6 ck	2 k	s.	ne.	0.08	2.0	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.03	559.7	.....	.....	54.5	12.5	83	calm	0	0	.....	.....	9 pk	.....	sw.	0	0	covered	Ioaquin Gomez.
Chimo, Fort, Ungava	29.92	760.0	30.08	764.0	—32	—35.6	100	w.	30	13.4	.....	.....	10 s	.....	sw	0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.08	764.0	68.8	20.4	88	n.	1	0.4	.....	0	2 s	.....	.....	0.02	0.5	clear	Robert Johnstone.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	77	25.0	86	se.	.....	.....	3	4 ck	5 k	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.42	747.3	29.98	761.5	79	26.1	89	calm	.....	.....	0	.....	10 ks	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	90	ne.	.....	.....	2	0	8 ks	.....	ne.	0	0	cloudy	Earl Flint.
York Factory, B. A.	30.50	774.7	30.58	776.7	—36.0	—37.8	.....	nw.	17	7.6	.....	3 c	2 s	nw.	nw.	0	0	.....	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.97	761.1	29.97	761.3	78.1	25.6	80	n.	11.2	5.0	.....	0	4 k	.....	n.	0	0	fair	P. Fasiani.
Naós, Bay of Panama	29.93	760.2	30.00	761.9	71.6	22.0	86	nw.	.....	.....	4	0	1 k	.....	n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Alvo, Jacmel, Hayti, W.I*	30.10	764.5	72	22.2		s.			4–5		4		ssw.	4 h'r	4 h'r	long	s.	fine.
S. S. Alleghany, Baltimore, Md †	30.46	773.7	38	3.3		ne.			1		10			6 h'r	6 h'r			dense mist.
S. S. Ailsa, Aux Cayes, Hayti, W.I			72.5	22.5	97	n.			1		5		n.	o	o	sm'h		fine
S. S. America, N. 49° 30′, W 12° —			48	8.9	85	w.			7		6		w.	o	o	r'gh	w.	fair.
S. S. Alps, Aux Cayes, Hayti, W. I*†	30.10	764.5	75	23.9		n.			2		5		n.	rain	rain	short		
Schr. Annie R. Lewis, N. 21° 07′, W. 81° 45′†	30.12	765.0	78	25.6		e.			5		2		ese.	o	o	r'gh	ese.	clear.
S. S. Anchoria, N. 54° 52′, W. 14° 31′						w.			4		2		w.			h'vy	w.	clear.
S. S. British Crown, N. 49° 56′, W. 17° 04′ †	29.47	748.5	49	9.4		s.			6		10		sw.	o	o	high	s.	
S. S. Caracas, Puerto Cabello, Venezuela *†	30.01	762.2	76	24.4	90	calm			0				ene.	½ h'r	½ h'r	light	ne.	cloudy.
S. S. Canada, (Br.) N. 50° 23′, W. 1° 37′ †	29.72	754.9	48	8.9	100	sw.			8		8			shr's	shr's	r'gh	sw.	squally.
S. S. Canada, (Fr.) N. 43° 04′, W. 58° 01′	30.52	775.1	41.0?	5.?		nw.			4		k		nw.	o	o	sm'h	nw.	clear.
S. S. Chalmette, N. 32° 30′, W. 77° 50′ *†	30.30	769.6	70	21.1		n.			4		8		n.	2 h'r	2 h'r	long	ne.	cloudy.
S. S. Devonia, N. 46° 29′. W. 45° 20′†	29.74	755.4	19	— 7.2		nw.			8		9		nw.	8 h'r	8 h'r	h'vy	nw.	snowy.
S. E. J. Spicer, N. 37° 38′, W. 38° 55′	30.12	765.0	60	15.6	94	wnw.			6		10		nw.	rain	rain	mod.	n.	light rain.
S. S. Frisia, N. 49° 50′, W. 21° 15′	29.32	744.7	43.2	6.2		sse.			8		4		s.	4 h'r	4 h'r	h'vy	var.	raining.
S. S. Grecian, N. 56° 00′, W. 9° 31′	29.16	740.7	43	6.1	83	wsw.			6		2		w.	3 h'r	3 h'r	high	w.	clear.
S. S. Hermann, New York City, N.Y			39.2	4.0	85	wnw.			3		5		wnw.	3 h'r	3 h'r			fair.
Bk. Havana, N. 25° 30′, W. 79° 55′ *†	30.20	767.1	77	25.0	77	e.			4		6		e.	6 h'r	6 h'r			fine.
S. S. Iowa, N. 44° 32′. W. 46° 06′			26	— 3.3		w.			7		8		w.	3 h'r	3 h'r	high	w.	squally.
Bg. L. & W. Armstrong, N. 32° 58′, W. 73° 46′ *†	30.46	773.7				sw.			1		3		sw.	¼ h'r	¼ h'r	mod.	se.	light rain.
S. S. Marengo, N. 48° 08′ W. 38° 44′ *†	29.13	739.9	36	2.2		w.			8		9		wnw.	3 h'r	3 h'r	h'vy	wnw.	squally.
S. S. Neckar, N. 41° 35′, W 67° 14′	30.54	775.7	32.0	0.0	69	var.			1–6		8		nw.;e.	o	o	sm'h	var.	cloudy.
S S. Orinoco, Hamilton, Bermuda †	30.42	772.7	72	22.2		calm			0		0			o	o			clear.
S. S. Oregon, (Br.) N. 51° 20′, W. 9° 36′*	29.57	751.1	52	11.1		w.			4		6		w.	4 h'r	4 h'r	long	w.	showery.
S. S. Ohio, (Am) Liverpool, Eng*†	29.48	748.8	41	5.0	91	sw.			4		1		wsw.	3 h'r	3 h'r			clear.
S. S. Pennsylvania. Liverpool, Eng			42	5.6	91	wsw.			7		9		sw.	3 h'r	3 h'r			squally.
S. S Polynesian, off Queenstown, Ireland			46	7.8		wsw			4		3		wsw.	2 h'r	2 h'r	long	wsw.	clear.
S. S. Rhynland, N. 49° 40′, W. 6° 58′	29.68	753.9	45	7.2	92	wsw.			6		10		w.	5 h'r	5 h'r	high	wsw.	squally.
S. S. Sardinian, N. 53° 56′, W. 18° 55′	29.14	740.1	41	5.0		sw.			9		7		w.	snow	snow	r'gh	w.	fair.
S. S. Switzerland, N. 46° 05′, W. 41° 02′*†	29.60	751.8				nw.			7		10		nw.	12 h'r	12 h'r	h'vy	nw.	cloudy
S. S. Samaria, N. 42° 35′, W. 64° 30′	30.61	777.5	28	— 2.2		var.			1		9		w	5 h'r	5 h'r	sm'h		cloudy.
S. S. Scythia, N. 42° 19′, W. 54° 03′	30.46	773.7	32	0.0		n.			3		6		nw.	2 h'r	2 h'r	mod.	nnw.	fair.
S. Salisbury, N. 31° 07′, W. 74° 04′	30.56	771.2	69.4	20.8	85	ese.			2	1c		se.		o	o	sm'h		clear.
Bk. Tuck Sing, N. 39° 54′, W 73° 35′*†	30.47	773.9				ene.			3		10			4 h'r	4 h'r	sm'h		rainy.
S. S. Valencia, N. 25° 37′, W. 70° 04′ †	30.27	768.8	76	24.4	82	ene.			5		2		ese.	o	o	h'vy	e.	fair.
S. S. Belgenland, N. 49° 05′, W. 11° 27′*†	29.65	753.1	42	5.6	83	wnw.			6				w.	o	o	long	wnw.	clear.
Schr. Adda Doane, Kingston, Jamaica, W. I†	30.06	763.5				nw.			1		3		ne.	o	o			clear.
Bg. Alcira, N. 10° 44′, W. 71° 37′	30.00	762.0	79	26.1		nne.			2		4		ene.	o	o			hazy.
S. S. Britannic, N. 40° 50′ W. 66° 20′*†	30.52	775.2	35	1.7		ne.			3		8		se.	o	o	sm'h		d. clouds.
S. S. British Prince, N. 41° 36′ 7′ W. 56° 52′			35	1.7		nnw.			3		7		ene.	o	o	long	nw.	fair.
Bk. Chas. Stewart, N. 36° 06′, W. 5° 21′*†	30.11	764.8				calm			0		2		w.	o	o			clear.
Bk. Cato, N. 40° 00′, W. 42° 30′ †	30.07	763.8				wnw.			7		5?		wnw.	o	o	h'vy	wnw.	cloudy.?
S. S Donau, N. 40° 42′, W. 66° 37′	30.52	775.2	34.7	1.5		ene.			3		10		e.	o	o	sm'h	ene.	overcast.
S. S. D. J. Foley, N. 23° 37′, W. 74° 10′*†	30.17	766.3	75.5	24.2	88	e.			6		7		e.	o	o	long	e.	squally.
S. S Habsburg, N. 40° 27′, W. 69° 29′						e.			2		10		e.	2 h'r	2 h'r	sm'h		snowing.
S. S. New York, N. 27° 28′ W. 87° 00′ *†	30.24	768.1	72	22.2		se.			6		10		se.	o	o	r'gh	se.	cloudy.
S. S. Pavonia, N. 44° 23′, W. 43° 43′	29.96	761.0	39?	3.9?	82	nw.			8		10		nw.	5 h'r	5 h'r	long	nw.	squally.
S. Parker M. Whitmore, N. 46° 52′, W. 18° 09′ *†	29.40	746.7	55	12.8		ssw.			8		10		ssw.			high	sw.	squally.
S. S. Sirius, N. 1° 59′, W. 43° 18′	29.95	760.7				ene.			4		10		ene.	11 h'r	11 h'r	long	ne.	overcast.
S. S. Vaderland, N. 50° 07′, W. 19° 30′			40	4.4		wsw.			6		6		w.	16 h'r	16 h'r	high	nw.	h'vy squalls
S. S. Wieland, N. 49° 18′, W. 31° 15′			33	0.6		sw;nw			10		10		sw;nw.	rain	rain	h'vy	var.	hurricane.
S. S. W. A. Scholten, N. 50° 36′, W. 0° 38′			45.9	7.7	79	wsw.			5		7		sw.	rain	rain	4	wsw.	raining.
S. S. Westphalia, Hamburg, Germany			48	8.9	92	w.			4		5			o	o			fair.
S. S. Reliance, N. 12° 00′, W. 58° 39′			79.5	26.4		ene.			6							mod	wnw.	cloudy.
S. S. Nurnberg, N. 46° 09′, W. 28° 54′	29.04	737.6	53.6	12.0		wsw.			8–9		10		w.	4 h'r	4 h'r	high	wsw.	misty.
U. S. Navy Yard, Portsmouth, N. H			26	— 3.3	88	nne.	7	3.1			10		se.	o	o			cloudy
U. S. S. Alliance, N. 19° 25′, W. 67° 20′	30.10	764.5	76	24.4	82	e.			3		5		e.	o	o	r'gh	e.	fair.
U. S. S. Kearsarge, Naples, Italy	30.25	768.3	59	15.0	70	calm			0		2							clear.
U. S. S. Lancaster, Naples, Italy	30.22	767.6	61	16.1	82	sw.			1		5		sw.	o	o	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.58	776.7	32	0.0	79	ne.			1		10							snowing.
U. S. S. Quinnebaug, Leghorn, Italy	30.10	764.5	57	13.9	87	e.			1		10					sm'h		threatening.
U. S. S. Swatara, Kingston, Jamaica, W. I	30.04	763.0	73	22.8	85	w.			1		2		w.	light	light	sm'h		clear.
U. S. S. Tennessee, New Orleans, La	30.17	766.3	63	17.2	94	sse.	6	2.7			2		s.	o	o			clear.
U. S. S. Trenton, Naples, Italy	30.23	767.8	62	16.7	61	sw.			1		5							fair.
U. S. S. Vandalia, Curacao, W.I	30.03	762.7	79	26.1	78	ene.			3		8		e.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.27	768.8	72?	22.2?	58	ene.			1		1	ene.						blue sky.
H. M. S. Alecto, N. 10° 38, W. 17° 08′	29.93	760.2	73	22.8		nnw.			4		6					5	nnw.	d. clouds
H. M. S. Boadicea, N. 10° 30′, W. 16° 28′	29.95	760.7	76	24.4	91	nnw.			3		3	nnw.				1	nnw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.40	772.1	63	17.2	89	calm			0		2	ene.						d. clouds.
H. M. S. Himalaya, N. 32° 00′, W. 22° 35′	30.27	768.8	61	16.1	94	wsw.			1		1	sse.				1	wnw.	blue sky.
H. M S. Monarch, N. 32° 08′, E. 29° 46′	30.09	764.3	63	17.2	67	calm			0		9					1	nw.	d. clouds.
H. M. S. Minotaur, Cagliari, Sardinia	30.17	766.3	57	13.9	84	s.			1		4	wnw.						d. clouds.
H. P. M. S. Douro. St. Thomas, Gulf of Guinea	29.85	758.3	89.6	32.0	80	se.			2		8		se.	o	o	1	se.	d. clouds.
S. S. Prussian, N. 44° 37′, W. 47° 25′	30.27	768.8	26	— 3.3		nw.			7		6		nw.	o	o	mod.	nw.	cloudy.
S. S. Scandinavian, Glasgow, Scotland	29.31	744.5	40	4.4		nnw			3		9		nw.	8 h'r	8 h'r			showery.
S. S. Dorian, N. 48° 55′, W. 36° 56′	28.81	731.8	32	0.0		nnw.			9		10			h'vy	h'vy	h'vy	nnw.	overcast.
S. S. Carroll, Halifax, N. S			14	—10.0		n.			1		6		n.	o	o			fair.
S. S. Llandaff City, N. 46° 58′, W. 36° 36′*†	29.05	737.9	46	7.8		nnw.			9		10		nnw.	5 h'r	5 h'r	h'vy	nnw.	hurricane.
S. S. Wisconsin. N 51° 13′, W. 11° 00′	29.50	749.3	50	10.0		wsw.			7		4		w	4 h'r	4 h'r	r'gh	wnw.	fair.
S. S. Rhaetia, N. 40° 45′, W. 67° 57′			33	0.6		ene.			3		8		e.	o	o	sm'h		cloudy.
S. S. Hevelius, N. 17° 15′, W. 24° 45′ *†	30.08	764.0	68	20.0		ne.			6		5?		ene.	o	o			cloudy.?
S. S. Rosse, N. 25° 44′, W. 19° 51′	30.17	766.3	66	18.9	74	nne.			5		2		nne.	o	o	mod.	nne.	fine.
S. S. Archimede, (It) Messina, Sicily			60	15.6		s.			4		6		sw.	o	o			cloudy.
S. S. Picqua, N. 40° 35′. W. 58° 33′			37	2.8	81	se.			3				ne.	2 h'r	2 h'r	light	nw.	cloudy.
S. S. Dominion, N. 44° 29′ W. 57° 31′			23	— 5.0		w.			5		8		w.			mod.	w.	cloudy.
S. S. Ontario, Bay of Fundy, N.S	30.58	776.7	25.5	— 3.6		ene.			1		4		ene.	o	o	sm'h		clear.
S. S. Denmark, N. 41° 56′, W. 51° 14′ †	30.42	772.7	34	1.1	90	wnw.			6		8		nnw.	o	c	r'gh	nnw.	fair.
S. S. Erin, N. 46° 44′, W. 39° 47′						wnw.			10		10		nw.	9 h'r	9 h'r	high	con.	snow squalls
S. S. Leipzig, N. 38° 34′, W. 27° 07′*	29.85	758.2	69.5	15.8	100	wsw.			6		10		wsw.	6 h'r	6 h'r	long	wsw.	squally.
S. S. Strassburg. N. 52° 37′, E. 4° 04′	29.83	757.7	46.0	7.8	69	ssw.			6		5		ssw.	o	o	7	ssw.	fair.
S. S. City of Augusta, N. 38° 00′ W. 74° 53′						ese.			2		10		ese.	o	o	h'vy	se.	cloudy.
S.S. Waesland, Antwerp, Belgium	29.83	757.7	47	8.3		ssw.			4		4		sw.	o	o			fair.
S. S. Westernland, Jersey City, N. J			48	8.9	92	ne.			2		10			12 h'r	12 h'r			foggy
S. S. Zaandam, N. 42° 30′, W. 51° 29′			44.2?	6.8?	77	nnw.			5		4		nnw.	2 h'r	2 h'r	long	nw.	fair.
S. S. State of Nevada, N. 48° 11′, W. 42° 48′*†	29.37	746.0				nw.			7		8		nw.	snow	snow	high	cross	cloudy.
S. S. Saxon, Boston, Mass *†	30.55	776.0	34	1.1		wnw.			1		10			o	o			hazy.
S. S. Celtic, Liverpool, Eng*†	29.48	748.8	48	8.9		sw.			4		10		sw.	10 h'r	10 h'r			snowy.
S. S. Lepanto, N. 35° 32′. E. 16° 33′	30.18	766.6	58	14.4		ne.			2		2		ne.	o	o			clear.
S. S. Romano, N. 46° 47′, W. 15° 39′			56	13.3		sw.			6		7		sw.	12 h'r	12 h'r	h'vy	w.	hazy.
S. S. Salerno, New York, N. Y †	30.50	774.7	34	1.1		n.			5		6		n.					snowy.
Bgt. Achsah, N. 33° 22′, W. 60° 23′†	30.39	771.9	69	20.6		wnw.			2		6		w.	o	o	mod.	wnw.	fair.
S. Armenia, N. 49° 08′, W. 8° 50′ *	29.73	755.1	54	12.2	80	w.			5		6		w.	1 h'r	1 h'r	long	wnw.	squally.
Bk. Adelaide, N. 18° 45′, W. 33° 38′			76	24.4		ene.			6		2		e.	o	o	r'gh	e.	threatening.
Bk. Benjamin Dickerman, N. 32° 20′, W. 75° 30′*†	30.39	771.9	71	21.7		se.			1		2		sw.	o	o	long	ese.	clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. Cornelius, N. 39° 38′, W. 73° 15′*†	30.45	773.4	38.8	3.8		e.			4		10			8 h'r	8 h'r	sm'h		raining.
S. Dora, N 54° 33′, W 24° 24′†	28.68	728.5	40.1	4.5		ese.			6		10		s.	6 hr	6 hr	hv'y	sw.	gale.
S. David Stewart, N. 13° 01′, W 58° 00′			76	24.4		ene.			6		3		ene.	0	0	mod.	e.	clear.
Schr. Edith R. Seward, N. 32° 41′, W. 63° 30′†	30.40	772.1	71	21.7		calm			0		2		calm	0	0	long	ese.	clear.
Bk. Fred. W Carlon, Progreso roads, Mexico			80	26.7		e.			5				e.	0	0	mod.	ene.	clear.
Bk. Gloire, N. 20° 09′, W. 51° 25′*	30.13	765.3				e.			5		5		e.	rain	rain	short	e.	fair.
Bk. George Davis, N. 34° 40′, W. 66° 49′*†	30.33	770.4				ese.			4				se.	3 h'r	3 h'r	med.	ne.	covered.
Bk. Galeon, Grimsby Road, Eng						ssw.			5		0			0	0			misty.
S. Hedwig, N 41° 54′ E. 17° 40′	30.24	768.0	57.7	14.3	82	nnw.			1		3		nnw.	0	0	sm'h		fair.
Bk. Hattie G. McFarland, Ship Island, Miss†	30.18	766.6	60	15.6		ese.			2					0	0			foggy.
S. Henry, N, 36° 43′, E 12° 40′*	30.20	767 1	58.6	14 8		sse.			2–3	4 ck	0					1–2	sse.	fair.
Schr. John L. Thomas, South Hobbles Cays, C. A †	30.00	762.0	76	24.4	86	ene.			2		1		ene.	0	0			clear.
Bg. John Welsh, jr., N. 28° 04′. W. 86° 40′†	30.27	768.8				ese.			3		10?		se.			sm'h	se.	clear.?
Bg. Lillian N 12° 45′, W. 58° 40′†	30.08	764.0	78	25.6		ene.			5		6		ene.	2 h'r	2 h'r	rg'h	var.	cloudy.
S. S. Laurel, Key West, Fla†	30.18	766.6	72	22.2		ese.			3–4		8		ese.	0	0			cloudy.
Bg. L. F Munson, N. 31° 25′, W. 55° 23′			70	21.1		wnw.			3		2		nw.	0	0	sm'h		clear.
S. S. Madrid, Shields, Eng			48	8.9	85	ssw.			5		8		ssw.	0	0			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga						se.			2					0	0	sm'h	ne.	clear.
Schr. Norena. Fajardo, Porto Rico, W. I†	30.06	763.5				ne.			2		2		ne.	1 h'r	1 h'r			showery.
Bk. Orpheus, N. 46° 29′, W. 7° 57′*	29.70	754.4	52	11.1		wsw.			5		8 k		nw.	0	0	long	wnw.	squally.
S. S. Radnorshire, N. 37° 20′, E. 9° 32′*†	30.18	766.6				se.			2		5?		var.	0	0			overcast?
Bgt. Sunlight, N. 39° 36′, W. 72° 45′						ene.			6		10		ene.	6 h'r	6 h'r	mod.	se.	raining.
S. St. David. N 0° 31′, W. 27° 27′			83	28.3	83	ese.			3		7		var.	1 h'r	1 h'r			hazy.
S. Stephen D. Horton, Scheldt river, Netherlands †	29.96	761.0				sse.			4		2		s.	0	0			fine.
Bk. Silica, N. 45° 35, W. 21° 30′*	29.52	749.8				ssw.			9		10		ssw.	rain	rain	h'vy	var.	overcast.
Bg. Teneriffe, Havana, Cuba, W. I	30.17	766.3				e.			2		2			0	0			fine.
S. Vincenzo Accame, N. 39° 46′, W. 72° 43′†	30.45	773 3	48.2?	9?		e.			0		10		ene.	5½ hr	5½ hr	r'gh	ene.	raining.
S. S. City of Alexandria, N. 30° 00′, W. 79° 23′*†	30.29	769.4	66	18.9		se.			2							sm'h	ene.	showery.
S. S. City of Washington. N. 21° 20′, W. 89° 38′*†	30.10	764.5	83	28.3		ne.			1							sm'h		fine.
S. S. Maasdam, N. 47° 10′, W. 33° 00′*	28.84	732.5	45.7	7.6		w.			9–10							high		h'vy storm.
S. S. Strathleven, N. 46° 45′, W. 32° 10′*	28.86	733.0	47.0	8.3	85	w.			8		9		w.			8	wsw.	raining.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	30.03	762.7	70	21.1	75	nnw.			3		0							clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.92	760.0	71	21.7	71	n.			4		0							misty.
H. M S. Opal, Simons Bay, Cape Colony	29.81	757.2	73	22.8	72	se.			7		0							squally.
H. P. M. S. Rainha de Portugal, Cabinda, Guinea	29.78	756.3	82.8	28.2	85	ese.			1		2			0	0	1		blue sky.
H. P. M. S. Bengo, S. 5° 02′, E. 6° 06′	29.91	759 7	84.2	29.0	92	ssw.			2		3		sw.	0	0	4	ssw.	blue sky.
Bk. Celestina, S. 6° 18′ W 31° 21′*†	29.98	761.5				se.			4		0			0	0	mod.	sse.	clear.
S. S. George S. Homer, S. 40° 52′ W. 36° 15′*†	30.10	764.5				nw.			4		5		nw.	0	0	mod	var.	fine.
Bk. Godeffroy, S 12° 21′, W. 31° 48′	30.00	762.0	80.6	27.0	82	ene.			4–5	cs	4 k		e.	rain	rain	mod.	e.	hazy.
S. Grecian, S. 47° 57′, W. 46° 00′†	29.62	752 3	56	13.3	87	w.			6		4		n.	w.	0	0	mod	nw.	clear.
S. Henry Failing, S. 41° 41′, W. 36° 05′*†	30.08	764.0	58	14.4	81	nnw.			6		9		sw.	0	0	sm'h	sw.	cloudy.
Bk. Horace Scudder, S. 7° 21′, E. 11° 20′*†	30.10	764.5	86	30.0		wnw.			4		5		w.	0	0			hazy.
Bkt. Levanter, Montevideo, Uruguay*	30.02	762.5	71	21.7		nnw.			3		0			0	0	sm'h		clear.
Bk. Winifred, S. 18° 52′, W. 33° 59′*†	30.00	762.0											se.	0	0		se.	
S. Orealia, S. 27° 57′, W. 24° 14′*	30.07	763.8				sse.			3		2		wnw.	0	0	long	sw.	clear.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 24° 24′. E. 138° 30′	30.35	770.9	64	17.8	62	n.			4		5		n.			mod.	nne.	fair.
U. S. S. Essex, Canton, China	30.22	767.6	52	11.1	93	nne.			1		10							raining.
U. S. S. Hartford, N 10° 02′, W 125° 17′	29.80	756.9	78	25.6	95	nne.			5		2		ne.	0	0	sm'h	ne.	clear.
U. S. S. Juniata, Shanghai, China	30.53	775.4	38	3.3	81	ne.			1		5		ne.	0	0			fair.
U. S. S. Monocacy, Shanghai, China	30.58	770.7	37	2.8	71	ne.			2		8		se.					fair.
U. S. S. Palos, Tientsin, China	30.46	773.7	30	— 1.1		s.			1		2							fair.
U. S. S. Ranger. N 11° 40′, W. 86° 19′	29.95	760.7	77	25.0	73	ene.			3		8			0	0	light		cloudy.
H. M. S. Audacious, Victoria harbor, Hong Kong, China	30.18	766.6	57	13.9	87	ene.			3		8		ene.					drizzling.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.22	767.6	56	13.3	81	ne.			4		10		e.			2		d. clouds.
H. M. S. Champion, Shanghai, China	30.32	770.1	35	1.7	70	calm			0		6							d. clouds.
H. M. S. Flying Fish, Chino Bay, China	30.25	768.3	54.9	12.7	85	ne.			2–4		10					2	se.	squally.
H. P. M S. Tamega. Macao, China	30.23	767.9	53.6	12.0	88	n.			5		10			4 h'r	4 h'r			raining.
S. S. Newbern, N. 27° 34′, W. 114° 55′			64	17.8	78	nw.			3		2		sw.	0	0	small	nnw.	clear.
S. S. Oceanic, N. 43° 30′, W 174° 44′	29.62	752.3	47	8.3	77	se.			3		5		se.	0	0	5	var.	fair.
S. S. Columbia, N. 45° 21′, W. 124° 08′*†	30.28	769 1	19	— 7.2	100	ene.			3		0					sm'h	ene.	clear.
S. S. Oregon, San Francisco, Cal †	30.06	763.5	36	2.2	90	ne.			2		0							clear.
S. S. Willamette, N. 39° 57′, W. 124° 14′†	30.09	764.3	38	3.3	90	nnw.			6		3		n.	0	0	r'gh	nnw.	clear.
S. S. Alameda, San Francisco, Cal			44	6.7		se.			2		1		se.	0	0			clear.
S. S. Ancon, Point Pinos, Cal	29.99	761.7	45	7.2	76	nw.			6		5		nw.	0	0	mod.	nw.	fair.
S. S. City of Chester, San Francisco, Cal †	30.04	763.0	38	3.3	63	sw.			2		0			0	0			clear.
S. S. Queen of the Pacific, San Francisco, Cal	29.98	761.5	39	3.9	82	nnw.			4		1		nw.	1 h'r	1 h'r	sm'h		clear.
S. S. State of California, Astoria, Oregon †	30.50	774.7	11	—11.7	100	nne.			3		0							clear.
S. S. Eureka, N. 46° 09′, W. 123° 20′*†	30.46	773 7	15	— 9.4	82	ne.			3		0			0	0	sm'h		clear.
S. S. City of Rio de Janeiro, N 31° 30′, E. 131° 37′						n.			2		5		sw.			sm'h		fair.
S. S. Colima, N 15° 50′, W 95° 32′†	30.01	762.2	76	24.4	73	ene.			2		4		e.	0	0	small	ene.	clear.
S. S. Granada, N 17° 30′, W. 101° 45′†	29.96	761.0	77	25 0	82	nnw.			1		0			0	0	light	w.	clear.
S. S. San Blas, Panama, Panama†	29.95	760.7	71	21.7	90	nw.			2		2		w.	0	0			clear.
S. S. Benalder, Kobe, Japan *	30.35	770.9	40	4.4	73	wnw.			2		0			0	0	sm'h		clear.
S. Caroudelet, N. 24° 05′, E. 128° 36′*†	30.28	769.1				ene.			5		7		ene.	0	0	mod.	ene.	fair.
S. St. Francis, N. 8° 40′, W. 119° 30′			75	23.9	81	ne.			4		1		ne.	1 h'r	1 h'r	mod.	ene.	clear
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru *†	30.02	762 5	69	20.6	100	sw.			1		10		se			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru*	29.99	761.7	70	21.1	100	sse.			2		10		calm			sm'h		overcast.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	29.29	741.0	59	15.0	88	var.			1		5							d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.77	759.1	63.3	17.4	83	w.			3		5					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	30.02	762.5	55	12.8	81	n.			1		0							d. clouds.
S. S. Australia, S. 10° 18′, W. 169° 40′	30.13	765.3	82	27.8	?	n.			4		5		n.	light	light	sm'h	sw.	fair.
S. S. Zealandia, N. 35° 02′, E. 174° 07′	29.84	757.9	67	19.4	74	ssw.			3		10		s.	4 h'r	4 h'r	h'vy	s.	fine.
S. Ismir, S. 39° 20′, W. 90° 01′*†	30.35	770.9				s.			5		4?		s.	2 h'r	2 h'r	2	s.	overcast.?
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.87	758 7	64	17.8		n.			1		10					sm'h		
H. M. S. Sylvia, off Sandy Point, Patagonia	29.31	744.5	44.7	7.1	72	wnw.			3–6		6		wnw.					squally.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, Port Elisabeth, Cape Colony	29.84	757.9	76	24.4	61	s.			3		2		calm	0	0	sm'h		clear.
H. M. S. Euryalus, Suakin, Egypt	29.96	761.0	73	22.8	72	ne.			2		0							blue sky.
H. M. S. Tourmaline, Tamatave, Madagascar	29.90	759.4	83	28.3	71	se.			1		3							d. clouds.
S. S. Port Phillip, Melbourne, Australia	30.01	762.2	70	24.4	64	s.			1							sm'h		clear.
H. M. S. Magpie, N. 6° 10′, E. 99° 44′	29.93	760.2	84.5	29.2	76	calm			0		9							d. clouds.

International Chart I. February 11, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B.Hazen, Chief Signal Officer.
Signal Office 1884.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 12, 1884,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.0	65.8	18.8	87	se.			1		6			0	0	cloudy	Rozier.
Algiers			30.09	764.2	68.7	20.4	47	sw.			1		4			0	0	cloudy	Thève.
La Galle			30.12	765.0	64.8	18.2	76	nw.			2		3			0	0	pretty fair	Fonfède.
Tunis			30.21	767.2	58.3	14.6	68	nw.			5		3			0	0		Delord.
Geriville					57.2	14.0	28	se.			7		2			0	0	fair	Forfert.
Laghouat			30.26	768.6	66.6	19.2	77	calm			0		0			0.008	0.2	clear	Abraham.
Biskra			30.27	768.8	68.4	20.2	93	e.			1		4			0.055	1.4	cloudy	Gouzon.
Australian.																			
Adelaide, South Australia			29.80	756.9	81.2	27.3	27	calm	0	0		3 cs				0	0		Charles Todd, C. M. G.
Hobart Town, Tasmania	29.72	754.9	29.91	759.7	61.5	16.4	75	s.	5	2.2			10		s.	0	0	cloudy	Com. J. Shortt, R.N.
Melbourne, Victoria	29.81	757.2	29.90	759.4	68.0	20.0	74	w.	2	0.9			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.80	757.0	30.38	771.7	38.1	3.4	73	ne.			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.50	749.2	30.29	769.4	38.7	3.7	82	w.	8.7	3.9			10			0.063	1.6		Dr. Wierzbiski
Eperies	29.43	747.5	30.35	770.8	39.9	4.4	65	se.			3	cs	10 s			inap.	inap.		Julius Mikolik.
Gratz	29.05	737.9	30.35	770.8	42.3	5.7	77	w.			2		3			0.051	1.3		Andreas Rospini.
Hermannstadt	28.90	734.1	30.37	771.4	44.8	7.1	44	sw.			3		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.98	736.0	30.37	771.4	40.8	4.9	96	calm			0		10			0.047	1.2	raining	The Staff.
Lemberg	29.28	743.7	30.30	769.6	42.6	5.9	65	se			2		6			0.177	4.5		Dr. T. Stanecki.
Pola	30.25	768.4	30.37	771.3	50.7	10.4	92	ese.			3		10			0	0		I. R. Hydrographic Office.
Szathmar	29.87	758.8	30.35	771.0	45.0	7.2	48	s.			2		0			0.028	0.7		Joseph Midliuszky, S. J
Szegedin	30.07	763.8	30.36	771.2	42.6	5.9	56	s.			3		0			0	0		Karl Stancel.
Trieste	30.30	769.6	30.40	772.1	47.7	8.7	98	calm			0		10			0.031	0.8	raining	Royal Academy.
Vienna	29.65	753.0	30.40	772.1	37.8	3.2	95	se.			1		10			0.051	1.3	rain & fog	I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.82	732.0	30.26	768.5	37.2	2.9	98	e.			2		8			0.079	2.0		
Brussels	29.98	761.5	30.19	766.7	47.5	8.6	77	ssw.			3		0			inap.	inap.		
Furnes	30.09	764.3	30.11	764.8	46.6	8.1	83	s.			2		1			0.213	5.4		
Maeseyck	30.05	763.3	30.18	766.5	50.7	10.4	75	w.			2		2			0.028	0.7		
British.																			
Aberdeen	29.35	745.5	29.45	748.0	44.4	6.9	84	sse.	27	12.1			10			0.085	2.2	overcast	W. Boswell.
Bidston, Liverpool Obs'y			29.64	752.8	50.0	10.0	58	s.	29	13.0			10					overcast	John Hartnup.
Bolton, Sharples	29.14	740.1	29.68	753.9	47.4	8.6	79	ssw.	12	5.4			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.48	743.7	29.68	753.9	49.1	9.5	65	s.			6		6			0.09	2.3	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.04	763.0	30.07	763.8	78.5	25.8	72	ne.			6		4					showery	Corp'l O. McGregor, A.H.O
Oardington					47.0	8.3	81	sw.			2.0		8					overcast	John McLaren.
Chatham, School M. E.	29.82	757.4	30.00	762.0	49.1	9.5	76	s.			2		10			blank	blank	misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.51	749.5	29.74	755.4	50.4	10.2	72	s.			6		10					overcast	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.O.
Freetown, Sierra Leone	29.71	754.6	29.94	760.5	80	26.7	91	ne.			2		6					d. clouds	J. W. Smith.
Galway, Queen's College	29.09	738.9	29.13	739.9	48	8.9	92	s.			6		10			0.43	10.9	raining	Wm. Ryan.
Gibraltar, Mediterranean	30.13	765.3	30.19	766.8	58.0	14.4	94	e.			4		8					d. clouds	Sgt. F. Norris, A. H.O.
Greenwich, Royal Obs'y	29.80	756.9	29.97	761.2	49.0	9.4	71	sw.					8					d. clouds	The Staff.
Guernsey	29.64	752.8	29.95	760.7	47.0	8.3	88	sse.			4		8					d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	29.91	759.7	29.95	760.7	48.4	9.1	70	ssw.	29	13.0			7					d. clouds	The Staff.
Leicester, Museum	29.55	750.6	29.81	757.2	49.0	9.4	71	sw.			3		8					overcast	J. C. Smith.
Malta, Mediterranean	30.20	767.1	30.28	769.1	59.4	15.2	73	ne.			2		6			0	0	d. clouds	Corpl. H. Keene, A. H. O.
Nassau, Bahamas	30.15	765.8	30.20	767.1	72.5	22.5	92	e			1		8			blank	blank	overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.66	753.4	29.89	759.2	48.1	8.9	76	s.			6		10					overcast	The Staff.
Plymouth	29.73	755.1	29.80	756.9	49.7	9.8	79	s.			6		10					gloomy	John Merrifield.
Sandwick Manse, Orkneys	29.15	740.4	29.25	742.9	44.8	7.1	88						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.34	770.6	30.41	772.4	45.8	7.7	62	ene.			2		2					d. clouds	W. H. Lyne.
Sheffield	29.53	750.0	29.73	755.1	49.8	9.9	59	sw.			4		2					d. clouds	W. F. Cooper.
Silloth Rectory	29.47	748.5	29.50	749.3	47.6	8.7	94	s.			6		4			0.385	9.8	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.68	753.9	48.0	8.9	70	s.	31	13.9			10			0.008	0.2	overcas	Rev. S. J. Perry.
Strathfield Turgiss					49.0	9.4	78	sw.			3.3		5					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.14	740.1	29.17	740.9	51.8	11.0	80	s.	48	18.9			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.93	760.2	30.32	770.1	59.6	15.3	66	e.	4.3	1.9		0	8 n		e.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.44	773.2	30.48	774.2	5.0	—15.0		calm	0	0			10 n			0.100	2.5	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.37	771.4	30.42	772.7	8	—13.3	96	e.	3	1.3			10 n			0.010	0.3	light snow	H. J. Cundall, C. E.
Chatham, N. B*	30.40	772.1	30.47	773.9	1	—17.2	100	calm	0	0			10 n		calm	0.02	0.5	light snow	G. A. Blair.
Cornwall, Ontario	30.17	766.3	30.38	771.6	12.0	—11.1	100	ne.			2		10 n			0.080	2.0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.45	773.4	30.50	774.7	— 1.5	—18.6		ne.			1	0?	0?			0	0	overcast?	H. A. Johnson.
Father Point, Quebec*	30.46	773.7	30.48	774.2	1	—17.2	100	calm	0	0		8 cs	2 k	calm	calm	0	0	fair	J. McWilliams
Fort Garry, Manitoba*	29.59	751.6	30.60	777.2	—27	—32.8	100	sw.	1	0.4			10 n			0	0	hazy	James Stewart.
Fredericton, N. B.	30.35	770.9	30.42	772.7	10.1	—12.2	100	calm	0	0			10 n			0.080	2.0	snowing	Prof. Thos. Harrison.
Grand Manan, N. B.	30.29	769.4	30.35	770.9	29	— 1.7	88	s.	13	5.8			10 n			0.25	6.3	heavy sn w	J. Chipman Seeley
Granton, Ontario	29.10	739.1	30.28	769.1	22.3	— 5.4	96	ne.	2	0.9			10 n			inap.	inap	snowing	Jas. Grant.
Halifax, N. S*	30.28	769.1	30.42	772.7	20	— 6.7	100	e.	3	1.3			10 n			inap	inap.	light snow	A. Allison.
Hamilton, Ontario	29.84	757.9	30.28	769.1	19.2	— 7.1	92	ne.			1	10 cs	0	ne.		inap.	inap.	sleeting	Geo. Dickson, B. A.
Kingston, Ontario*	30.00	762.0	30.36	771.1	10	— 8.9	80	nw.	7	3.1			10 n		nw.	0.20	5.1	cloudy	A. P. Knight, M. A.
Little Grace Bay, N. S.	30.30	769.6	30.34	770.6	9.0	—12.8	100	se.	2	0.9			10 n					snowing	C. H. Rigby.
London, Ontario	29.32	744.7	30.29	769.4	23.8	— 4.6	95	ne.			1		10 ks			0.27	6.9	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.80	706.1	30.39	771.9	— 7	—21.7	95	s.	30	13.4			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	28.30	718.8	30.62	777.7	—27	—32.8	100	nw.	7	3.1		5 cs	0	nw.		0	0	fair	Rev. J. M. Wellwood.
Montreal, Quebec*	30.20	767.1	30.43	772.9	13	—10.6	80	ne.	4	1.8			10 n			0.02	0.5	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.17	766.3	30.11	772.4	15.9	— 8.9	75	ene.					10 s			0.02	0.5	overcast	A. McCill, M. A.
Parry Sound, Ontario*	29.64	752.8	30.40	772.1	15	— 9.4	83	e.	12	5.4			10 n		e.	inap.	inap.	cloudy	Rev. E. Mosley.
Peterboro, Ontario	29.55	750.6	30.35	770.9	19.4	— 7.0	82	ne.			1		10 k			0.15	3.8	overcast	Wm. O'Connor, M.A.
Port Arthur	29.70	751.4	30.50	774.7	— 3	—19.4	65	s.	1	0.4			10 n			0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.53	750.0	30.27	768.8	24	— 4.4	100	ne.	5	2.2			10 n			0.20	5.1	threatening	H. Morgan.
Port Stanley, Ontario	29.50	750.8	30.25	768.3	26	— 3.3	96	ne.	3	1.3			10 n		e.	0.31	7.9	cloudy	M. Payne.
Qu Appelle, N. W. T	27.88	708.1	30.62	777.7	—30	—34.4		sw.	4	1.8		c	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	30.03	762.7	30.13	772.9	11	—11.7	83	ne.	12	5.4		10 cs	0	ne.		0	0	cloudy	Capt. Asne, R. S.
Rockliffe, Ontario*	29.95	760.7	30.43	772.9	12	—11.1	87	se.	3	1.3			10 s		sw.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B.	30.28	769.1	30.33	770.4	23	— 5.0	99	ne.	4	1.8			10 n			0.15	3.8	light snow	
St. John, N. B.	30.21	767.3	30.37	771.4	11.0	—11.7	100	n.	8	3.6			10 n					snowing	G. Hutchinson.
St. Pierre, N. F.			30.32	770.0	11.8	—11.2		nw.			3								The Commandant.
Saugeen, Ontario*	29.56	750.8	30.33	770.4	18	— 7.8	96	ne.	18	8.0			10 s			0	0	cloudy	
Stratford, Ontario	28.92	734.6	30.29	769.4	21.1	— 6.1	86	calm	0	0			10 s			0	0	overcast	W. McBride, M.A.
Sydney, C. B*	30.43	772.9	30.50	774.7	2	—16.7	91	calm	0	0			10 n			0	0	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.94	760.5	30.35	770.9	20	— 6.7	100	ne.	8	3.6			10 n			0.15	3.8	light snow..	Meteorological Observatory.
Woodstock, Ontario	29.17	740.9	30.31	769.9	23.1	— 4.9	95	ne.	11	4.9			10 n			0	0	foggy	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.29	769.4	30.36	771.1	26	— 3.3	88	e.	3	1.3			10 n			0.09	2.3	heavy snow	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.93	760.2	29.96	761.0	75.5	24.2	90	sw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.64	752.8			84.5	29.2	32	ssw.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.81	706.4			87	30.6	36									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.89	759.3	29.87	761.2	62.1	16.7	93	sw.			2	10						cloudy	Samuel Redolez.
Iquique	29.86	758.5	29.89	759.2	68.0	20.0	80	sw.			2							cloudy	Rafael Moreno.
Niebla	29.60	751.8	29.71	754.5	59.0	15.0	72	e.			1	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.85	758.3	29.94	760.5	65.1	18.4	78	ne.			1	8 s		ne.				fair	Manuel Tobar.
Punta Corona	29.98	761.4	30.16	766.1				w.			2	10				0	0	cloudy	Francisco Alvarado.
Valparaiso	29.81	757.2	29.95	760.7	63.0	17.2	90	sw.			0	0	0					clear	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai.	30.19	766.9	30.22	767.5	40.3	4.6	82	e.	4.0	1.8			10 n			0.016	0.4	raining	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.11	764.8	30.16	766.0	43.3	6.3	84	wsw.	13	6.			8					hazy	Oversergent Fischer.
Fanöe	30.08	764.0	30.10	764.5	41.5	5.3	94	ssw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.25	743.0	29.30	744.1	— 5.8	—21.0	100	nw.			4		10						S. Kleinschmidt.
Ivigtut, Greenland	29.13	739.8	29.15	740.3	— 4.2	—20.1		ne.			4		8						
Jacobshavn, Greenland	29.35	745.5	29.40	746.7	—33.7	—36.5		calm			0		3						
Stykkisholm, Iceland	28.50	724.0	28.55	725.1	27.0	— 2.8	89	ne.			7		10						A. O. Thorlacius.
Thorshavn	28.92	734.6	28.95	735.2	46.9	8.3	82	se.	16	7.			5						Overloerer Bergh.
Upernavik, Greenland	29.55	750.6	29.60	751.8	—34.8	—37.1		ne.			2		0						
Vestervig	29.91	759.8	30.00	762.1	41.9	5.5	91	ssw.			6		9						Loerer Oesterbol.
Egyptian.																			
Cairo	29.96	761.0			67.1	19.5		sw	1.3	0.6		0	6 k			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.48	748.7	30.14	765.5	40.3	4.6	86	s.			1		10 n	w.	w.	0.047	1.2	misty	M. Labroue, Director.
Alençon, Normal School	29.59	751.5	30.14	765.5	41.4	5.2	97	calm			0		10 k			0	0	covered	M. Nicot, Director.
Arras, Normal School	29.84	758.0			43.0	6.1	91	wnw.			4		5		s.	0	0	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.19	766.8	30.27	768.8	58.6	14.8	68	se.			1		8		s.	0.016	0.4	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.67	753.5	30.24	768.2	43.5	6.4	85	sse.			1		5		se.	0.079	2.0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.89	759.3	30.17	766.2	44.6	7	77	se.			1		8		se.	0	0	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.31	744.4	30.17	766.3	50.7	10.4	82	n.			2		cn		s.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.82	757.3	30.08	764.1	49.6	9.8	79	se.			1		5		sse.	0.067	1.7	cloudy	M. Rayet, Director.
Bourges, Normal School	29.60	751.8	30.16	766.1	50.0	10.	74	se.			4		1		se.	0.039	1.0	clear	M. Sauvageot, Director.
Brest, Naval Observatory	29.70	754.3	29.94	760.5	53.6	12.0	76	sw.			6		3		sw.	0.012	0.3		M. de Kermarrée, Dir.
Caen, Normal School	29.99	761.7	30.06	763.6	50.4	10.2	76	e.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.94	760.4	30.27	768.8	40.1	4.5	91	sse.			6		5		se.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.80	756.8	30.25	768.3	41.0	5.0	78	se.			1		10			0.35	9.	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.77	730.8	30.15	765.8	49.3	9.6	76	se.			1	8 cic			s.	0.335	8.5		M. Allnard, Director.
Cluny, Normal School	29.34	745.3	30.22	767.6	46.0	7.8	86	s.			4		2		n.	0.528	13.4	slightly cl'dy	M. de Villemontée, Dir.
Cominercy, Normal School	29.41	747.0	30.30	769.6	41.0	5	76	ese.			1		5 n	ese.	ese.	0.004	0.1	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.70	703.6	30.26	768.7	50.4	10.2	70	calm			0		3 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.14	740.2	30.28	769.1	54.9	12.7	68	e.			1		7		s.	0.020	0.5		M. Kina, Director.
Grenoble, Normal School	29.31	744.5	30.08	764.0	54.7	12.6	79	ne.			1		k			0	0		M. Ablard, Director.
Guéret, Normal School	28.52	724.5	30.10	764.6	44.2	6.8	74	nw.			1		5 n		nw.	0.177	4.5	cloudy	M. Delorme, Dir.
Lescar, Normal School	29.51	749.5	30.08	764.0	50.4	10.2	74	ne.			1		10			0.272	6.9	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.90	759.5	30.00	762.1	52.5	11.4	71	s.			4		8	s.	sw.	0	0	¾ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.17	741.0	30.25	768.4	48.6	9.2	82	e.			1		2 n			0.559	14.2	slightly cl'dy	M. André, Director.
Mans, Normal School	29.76	756.0	30.08	764.0	45.5	7.5		s.			1		0			0.008	0.2	clear	M. Richard, Director
Marseille, Observatory	29.98	761.6	30.25	768.4	62.1	16.7	55	se.			1		6		se.	0	0		M. Stephan, Director.
Montlouis	24.88	632.0	29.72	755.0	44.6	7.0	55	wsw.	7.4	3.3			5	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.09	764.3	30.20	767.1	55.8	13.2	86	e.			6		8		e.	0.028	0.7	light rain	M. Galzin, Director.
Nancy, Normal School	29.50	749.3	30.31	769.9	38.8	3.8	90	s.			1		kn			0	0		M. Hasse, Director.
Nantes, Observatory	29.93	760.1	30.09	764.2	52.3	11.3	62	se.			1–2	1 c				0	0		M. Larocque, Director.
Perpignan, Observatory	30.06	763.6	30.18	766.5	59.2	15.1	65	e.	7.4	3.3			7	s.	sse.	0.008	0.2		Dr. Fines, Director.
Pic-du-Midi, Summit	21.19	538.1			27.0	— 2.8		sw.			1		5	ne.	sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.15	740.5	30.23	767.9	54.0	12.2	74	s.			1		n		s.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.5			34.9	1.6	97	sse.			6		8		s.	0.193	4.9		M. Allnard.
Rochefort, Naval Obs'y	30.06	763.4	30.09	764.2	50.4	10.2	80	se.			1		2		se.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.84	757.8	30.05	763.3	48.6	9.2	79	ese.			1					0	0		M. Brotier, Director.
Rodez, Normal School	28.02	711.7	30.19	766.9	49.3	9.6		ne.			1		10 n		nw.	0.173	4.4	raining	M. Seger, Director.
Rouen, Normal School	30.09	764.3	30.14	765.5	48.2	9.0	69	se.			1		0			0	0	clear	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	30.01	762.2	30.17	766.4	48.0	8.9	70	se.			2					0	0		M. Renou, Director.
Toulouse, Observatory	29.42	747.3	30.15	765.7	55.9	13.3	74	sse			6		8	se.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.93?	760.3?	29.93?	760.3?	51.1	10.6	70	sse.			1					0	0		M. de Tastes.
Versailles, Observatory	29.66	753.3	30.15	765.8	47.5	8.6	67	sw.			2		0			0	0	clear	Dr. A. Bernigny, Director.
Sub-series.																			
St. Martin du Hinx	29.93	760.3	30.08	764.1	47.3	8.5	86	se.	9.8	4.4			10 k		s.	0.087	2.2	covered	M. Cartier, Director.
German.																			
Ansbach	28.88	733.6	30.39	771.9	41.4	5.2	67	s.			2		1	s.		0.146	3.7		Prof. Jnedt.
Bamberg	29.43	747.6	30.28	769.2	42.8	6.0	60	calm			0		4 ks			0.157	4.0		Prof. Dr. Hoh.
Berlin	30.10	764.6	30.25	768.3	47.3	8.5	71	w.			5		8			0.193	4.9		Meteorological Institute
Breslau	29.76	755.8	30.29	769.4	45.3	7.4	70	wnw.			3		6			0.094	2.4		Royal University Obs'y
Carlsruhe	29.85	758.1	30.32	770.1	48.2	9.0	63	se.			1		1			0	0		Albert Senz.
Cassel	29.53	750.1	30.24	768.2	46.2	7.9	74	s.			4		7	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.93	760.1	30.31	769.8	47.1	8.4	73	ssw.			1		4			0.098	2.5		Physical Society.
Friedrichshafen	28.85	733.0	30.31	769.8	47.3	8.5	86	ene.			2		8	e.		0.035	0.9		Wilhelm, Chief Tel.
Hamburg	30.13	765.2	30.22	767.5	45.0	7.2	84	wsw.			3		3	wsw.		0.043	1.1		E. Preller.
Kiel	30.15	765.9	30.17	766.3	43.0	6.1	80	ssw.			2		0			0.012	0.3		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.87	758.8	30.31	769.8	46.0	7.8	75	sw.			3		8	w.		0	0		H. Leppig, Asst.
Magdeburg	30.08	764.1	30.28	769.0	47.8	8.8	71	wsw.			2		8	w.		0.031	0.8		Weather Observatory.
Memel	30.10	764.5	30.15	765.7	38.5	3.6	97	se.			2		10					rain & fog	Issermann.
Munich	28.48	723.4	30.36	771.2	41.2	5.1	86	ne.			2		10	e.		0.165	4.2		Central Station.
Neufahrwasser	30.16	766.1	30.18	766.5	44.2	6.8	78	nw.			3		10	w.		0.343	8.7		A. Lothes.
Neustadt, Palatinate	29.74	755.4	30.28	769.0	46.4	8.0	73	ssw.			1		4	ssw.		0	0		Prof. Dicknether.
Stuttgart	29.36	745.7	30.28	769.0	45.5	7.5	74	s.			1		0	s.		0	0		Prof. Dr. Schoder.
Wustrow	30.15	765.9	30.18	766.5	40.5	4.7	86	se.			2		5 ks			0	0		Profs. Brandes & Reimer
Greek.																			
Athens																			Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.90	759.3	29.95	760.6	76.7	24.8	74	wsw.	21.0	9.4			6			0	0	d. clouds	
Deesa	29.44	747.6	29.91	759.6	85.0	29.4	18	w.	10.0	4.5			0			0	0	blue sky	
Bombay	29.92	760.0	29.96	760.9	77.3	25.2	65	w.	7.0	3.1			0			0	0	blue sky	
Poona, Yarrowda	28.07	713.1	29.92	760.0	82.7	28.2	21	sw.	16.0	7.2			0			0	0	blue sky	
Belgaum	27.39	695.7	29.92	760.0	79.0	26.1	35	w.	7.0	3.1			0			0	0	blue sky	
Lahore	29.13	739.9	29.90	759.3	67.7	19.8	40	calm	0	0			0			0	0	blue sky	
Roorkee	28.93	734.8	29.84	758.0	71.7	22.1	23	w.	3.0	1.3			0			0	0	blue sky	
Agra	29.33	744.9	29.90	759.3	78.2	25.7	18	nw.					0			0	0	blue sky	
Nagpur	28.85	732.9	29.90	759.3	81.7	27.6	25	sw.	4.0	1.8			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.56	725.5	29.94	760.4	73.8	23.2	28	calm	0	0			0			0	0	blue sky	
Lucknow	29.53	750.1	29.92	759.9	70 2	21.2	31	w.	5.0	2.2			0			0	0	blue sky	
Allahabad	29.60	751.9	29.92	760.0	73.8	23.2	43	nw.	1.0	0.4			0			0	0	blue sky	
Patna	29.72	754.9	29.91	759 8	71.5	21.9	27	wnw	3.3	1.5			0			0	0	blue sky	
Hazaribagh	29.89	759.2	29.95	760 6	67.4	19.7	25	nw.	8.0	3.6			0			0	0	blue sky	
Cuttack	29.87	758.7	29.96	760.8	75.8	24.3	37	nw.					0			0	0	blue sky	
Calcutta, Alipore	29.91	759.8	29.93	760.3	69.0	20.6	42	calm	0	0			0			0	0	blue sky	
Dhubri	29.81	757 3	29.94	760.4	66.4	19.1	49	calm	0	0			0			0	0	blue sky	
Chittagong	29.87	758 6	29.96	761.0	68.3	20.2	58	w.	2.6	1.2			2			0	0	d. clouds	
Sibsagar	29.63	752 6	29.98	761.5	60.3	15.7	80	nw.	1.0	0.4			8	w.	w.	0	0	d. clouds	
Jeypore	28.42	722.0	29.88	758.9	76.5	24.7	14	nw	11.5	5.1			3	nw.		0	0	d. clouds	
Zanzibar	29.91	759.6	29.93	760.2	84.1	28.9	63	ne.	8.0	3.6			8	wsw.	n.	0	0	d. clouds	
Bellary	28.41	721.6			90.0	32.2	22	s.	2	0.9		0	0			0	0	blue sky	
Trichinopoly	29.67	753.6			88.4	31.3	31	e.	0.2	0.1		3	4			0	0	d. clouds	
ITALIAN.																			
Udine	29.97	761.1	30.39	771.9	46.8	8.2	86	calm	0	0			10			0	0		Prof. Giovanni Clodig.
Milan	29.87	758.6	30.41	772.3	48.2	9.0	86	s.	1.3	0.6			10	wsw.		0	0		Prof. G.V.Schiapparelli
Padua	30.27	768 9	30.39	771.8	46.0	7.8	89	ne.	2.5	1.1			10			0.008	0.2		Prof. Dott. Lorenzoni.
Moncalieri	29.45	748.1	30.39	772.0	47.3	8.5	79	nw.	0.7	0.3			10			0	0		Prof. F. F. Denza.
Genoa	30.14	765.5	30.34	770 5	51.4	10.8	73	ne.	5.6	2.5			10	s.		1.252	31.8		Prof. G. M. Garibaldi.
Pesaro	30.33	770.3	30.38	771.6	47.1	8.4	93	n.	10.5	4.7			10			0	0		Prof. Luigi Guidi.
Florence	30.05	763 2	30.31	769.9	37.0	13.9	62	e.			2		3			0	0		Prof. Costantino Pittei.
Leghorn	30.16	766.1	30.23	767 9	59.5	15.3	69	se.	3.1	1.4			6	sw.		0	0		Prof. P. Monte.
Rome	30.14	765.5	30.32	770 0	58.3	14.6	60	n.	0.7	0.3			7			0	0		Prof. P. Tacchini.
Lecce	30.07	763.7	30.33	770.3	57.6	14.2	59	n.	11.2	5.0			1			0	0		Prof. C. de Giorgi.
Cosenza	29.40	746.8	30.32	770.1	54.7	12.6	77	se.	1.8	0.8			1	s.		0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	30.05	763.3	30.31	769 8	60.3	15.7	59	ne.	3.1	1.4			10			0	0		Prof. G. Caccianore
Syracuse	30.27	768.9	30.32	770.0	57.0	13.9	63	e.	1.8	0.8			8	ssw.		0	0		Sig. V. Giulia. o.
Sub-series.																			
Naples, Astron'l Obs'y	29.80	757.0	30.34	770.5	56.8	13.8	62	ese.	1.8	0.8			4	n.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.16	766.2	30.19	766 8	35.0	1.7	65	nw.			4	2 ck	1 k	nw.	nw.	0.110	2.8	clear	H. Hattori.
Awomori	30.07	763.8	30.11	764.8	32.2	0.1	87	w.	21.2	9.5			10 n		w.	0.030	0.8	light snow	K. Ogawa.
Hakodate	30.07	763.8	30.08	764.1	31.5	— 0.3	51	w.	19.8	8.8			9 s			0.085	2.2	overcast	Y. Souma.
Hamamatsu	30.18	766.6	30.28	769.1	35.0	1.7	68	w.			2	0	0			0	0	clear	Sekigawa & Yamasaki.
Hiroshima, I. M. Obs'y	30.31	769 9	30.33	770 3	37.8	3.2	53	n.	4.9	2.1			10 s		w.	0	0	cloudy	Y. Okamoto.
Kagoshima	30.28	769.1	30.29	769.4	42.9	6.1	93	n.			2		10 n			0.323	8.2	light rain	
Kanazawa	30.17	766.4	30.28	769.1	36.0	2.2	75	e.	6.7	2.9			10s;ks			0	0	overcast	S. Endo.
Kioto	30.15	765.7	30.32	770.1	28.7	— 1.8	90	nw.	0.1	0.04		9cs;ck	0	sw.		0	0	cloudy	M. Tojima.
Kochi	30.32	770.0	30.34	770.5	38.1	3.4	64	e.	3.9	1.7			10s;ck			inap.	inap.	overcast	K. Kusunose.
Miasaka	30.27	768.9	30.30	769 6	42.1	5.6	86	nne.			1		10 n		w.	0.776	19.7	raining	K. Masasaki.
Miyako	29.95	760 7	30.06	763.5	37.8	3.2	58	w.	3.6	1.6		0	0			0	0	clear	N.Honno & K.Suwa.
Nagasaki, I. M. Obs'y	30.07	763.8	30.29	769.3	39.2	4.0	81	calm	0	0			10 s			0.380	9.6	overcast	
Nemuro	29.91	759.7	29.96	761.0	19.4	— 7.0	63	calm	0	0		3 c	0	w.		0	0	clear	A Shibuya.
Niigata	30.19	766 8	30.23	767 8	35.4	1.9	94	se.	1.9	0.8			10 n		w.	0.385	9.8	light rain	Satoo & Tomikawa.
Nobiru	30.13	765.3	30.14	765.7	30.1	— 1.1	100	nnw.	0	0		0	1 s			0	0	clear	Yoshino & Midzushina.
Numadzu	30.20	767.1	30.24	768.0	32.9	0.5	70	e.			2	1 c	0			0	0	clear	T.Ohgi.
Osaka	30.32	770 0	30.33	770 4	30.0	— 1.1		e.	2.6	1.2		10 cs	0	w.		0	0	cloudy	H. Omura.
Sakai	30 27	768.9	30.29	769.1	32.1	0.1	88	w.			2	1 c	2 ks	nw.	w.	0	0	fair	Yamawchi & Sakamoto.
Sapporo	29.96	761.1	30.04	762.9	17.0	— 8.3	84	calm	0	0		0	1 s			0.090	2.3	clear	S. Kimura.
Shimonoseki	30.16	766.2	30.31	769 9	37.4	3.0	67	e.			2		10 s			0.067	1.7	cloudy	S. Sakano.
Wakayama	30.27	768.8	30.32	770 2	34.0	1.1	74	calm	0	0			10ck;ks		w.	0	0	cloudy	K. Nakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.82	757.4	30.01	762.2	82.0	27.8	68	ene.	12.5	5.6		1 cs	4 kn		ese.	0.19	4.8	fair	The Staff.
MEXICAN.																			
Leon	24.31	617.5	30.16	766.1	44.6	7.0	89	nnw.	0.9	0.4		0	0			0.082	2.1	clear	M. Leal & M. Pina
Mazatlan	29.82	757.5	30.09	764.2	66.0	18.9	84	nne.	1.6	0.8		0	1 k			0	0	hazy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.15	765.8	30.15	765.8	45.9	7 7		s.			5					0.209	5.3		
Groningen	30.15	765.7	30.20	767.1	45.5	7.5		ssw.								0	0		
Helder	30.09	764.2	30.09	764.2	46.2	7.9		s.			5					0	0		
Helleveotsluis	30.14	765.5	30.14	765.5	50.4	10.2	80	sw.			3					0	0		
Utrecht	30.13	765.2	30.18	766.6	50.5	10.3	70	ssw.			3		5			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758 7			79.0	26.1	78	wnw.	3.5	1.6			9			0	0		Lt.J.J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	29.68	753.9	29.74	755.5	42.4	5.8	82	s.	34	15			10			0.126	3.2	raining	
Brono	29.68	753 9	29.72	754 9	40.6	4.8	61	sse.			4		4			0	0		
Christiania	29.77	756.1	29.92	759 9	39.6	4.2	76	w.	7	3			5			0.079	2.0		
Gjæsvær	29.47	748.6	29.50	749 2	37.6	3.1		w.			6		10			0.106	2.7		
Lodingen	29.53	750 0	29.58	751.2	38.5	3.6	73	ssw.			2		1			0.004	0.1		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr.A.M.R.dos Santos.
Funchal, Madeira	30.09	761.2	30.17	766 4	62.4	16.9	54	sw.	9.4	4.2			1	n.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.78	756 3	30 12	765 0	52.5	11.4	62	ssw.	0.7	0.3			0			0	0		The Staff.
Ponta Delgada, Azores	29.87	758.6	29.94	760.4	59.4	15.2	62	nw.	13.0	5.8			3			0.217	5.5		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.03	762.8	30.07	763.8	68.9	20 5	68	ne.			5		3			0	0		
San Salvador, Congo	28.00	712 7	29.89	759.3	76.1	24.5	81	calm			0		10			0.244	6.2		
Serra da Estrella	25.25	641.4	30.12	765.0	35.6	2.0	90	se.	17.4	7.8			8			0	0		
RUSSIAN.																			
Akmolinski	29.18	741.1	30.37	771.5	7.3	—13.7	100	wnw.	4	2			10 n			0.020	0.5		Major K. Lasarew.
Archangel	29.74	755.5	29.70	756.0	33.6	0.6	87	sw.	18	8			10			0	0		Capt. Sselliwerstow
Ashuradah	30.50	774.8	30.41	772 4	49.3	9.6	80	nnw.	2	1		0	6 k			0	0	light clouds	
Astrakhan	30.69	779.5	30.61	777.5	30.9	— 0.6	61	sw.	2	1		0	2 s			0	0		Capt. Wisganow.
Baku	30.59	776.9	30.54	775.7	37.9	3.3	71	nne.	18	8			10 kn			0.004	0.1		
Barnaul	29.58	751 4	30.14	765 5	2.7	—16.3	83	sw.	4	2			2			0	0		Meteorological Office.
Bieloserk	29.73	755.2	30.22	767.6	33.8	1.0	87	wsw.	7	3			10 s			0.004	0.1		
Dorpat	29.94	760 4	30.19	766.8	30.9	2.7	89	sse.	2	1			10 n			0.276	7.0		Observatory.
Ekaterinburg	29.28	743.6	30.30	769.6	25.7	— 3.5	72	wsw.	9	4			10			0	0	light clouds	Meteorological Obs'y
Elissawetgrad	30.15	765.8	30.63	777.9	36.9	2.7	46	ssw.	9	4		5 c	0			0	0	light clouds	
Kasan	30.14	765.6	30.14	773.2	8.4	—13.1	84	sse.	9	4			0			0	0		Observatory.
Kem	29.75	755.6	29.80	756.9	34.9	1.6	87	sw.	22	10			10			0	0	h'vy clouds	
Kerten	30.50	774.8	30.53	775.4	32.4	0.2	96	ne.	4	2		7 c	0			0	0		Lagorio & Sastyrea.
Kieff	29.80	757 0	30.47	774.0	35.4	1.9	46	s.	16	7		0	0			0	0		Observatory.
Kostov	29.80	758.5	30.40	772.2	25.3	— 3.7	82	wsw.	11	5			10 s			0	0		
Ligov	29.93	760.1	30.55	776.0	28.2	— 2.1	69	wsw.	11	5			10			0	0		R.I.Ssaweljew, Engin'r.
Libau	30.10	764.6	30.13	765.2	40.5	4.7	96	calm	0	0			10			0.228	5.8		[illegible]
Lugan	30.35	770 9	30.57	770.4	35.0	2.0	40	w.	4	2			3			0	0	light clouds	Meteorological Obs'y
Moscow	29.82	757.4	30.32	770.2	32.2	0.1	76	s.	4	2		0	4 ks			0	0		Meteorological Obs'y
Nertschinsk	27 86	707.6	30.44	773 1	— 4.4	—20.2	72	calm	0	0			0			0	0		
Nikolaiev	30.54	775.8	30.61	777.6	37.4	3.0	57	s.	4	2		0	0			0	0		Capt. Kurdakow.

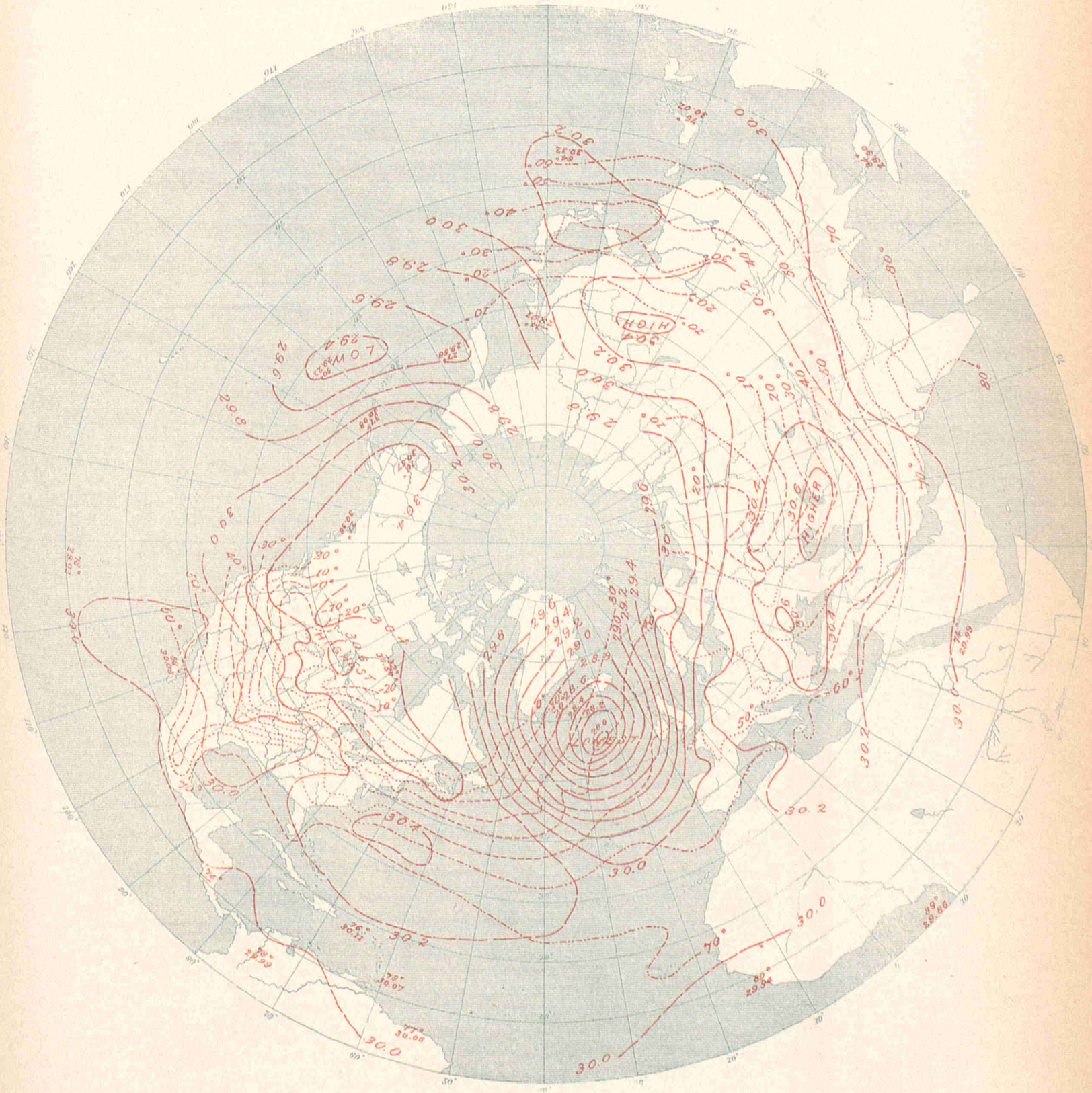
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	29.82	757.4	29.91	759.6	—14.4	—25.8	80	w.	2	1	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.01	762.2	30.15	765.8	32.0	0.0	45	calm	0	0	.....	.....	9 n	.....	.....	.....	.....	.....	Siang.
Petro-Alexandrovsk	30.22	767.7	30.61	777.4	25.9	— 3.4	87	calm	0	0	.....	.....	10	.....	.....	.....	.....	.....	Walter.
Petrozavodsk	29.87	758.7	30.08	763.9	35.2	1.8	80	wsw.	16	7	.....	0	8 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.79	759.7	30.31	769.8	39.7	4.3	58	sse.	13	6	.....	3 cs	0	.....	.....	0	0	light clouds	
Poti	30.37	771.4	30.40	772.2	40.3	4.6	89	sse.	7	3	.....	.....	10 n	.....	.....	0.256	6.5	raining	
St. Petersburg	30.17	766.4	30.20	767.0	34.2	1.2	85	wsw.	7	3	.....	.....	10 n	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.92	709.2	30.50	774.8	38.8	3.8	85	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	Dresch.
Semipalatinsk	29.58	751.4	30.32	770.2	0.9	—17.3	89	calm	0	0	.....	.....	3	.....	.....	0.028	0.7	.....	Major Lasarew
Sevastopol	30.33	770.3	30.55	776.0	39.4	4.1	66	nw.	7	3	.....	0	2 s	.....	.....	0	0	.....	
Starol Bykhov	29.77	756.1	30.35	770.9	36.7	2.6	65	se.	9	4	.....	0	1	.....	.....	0	0	light clouds	Carl Hagen.
Tashkend, Laboratory	28.80	731.6	30.58	776.7	34.7	1.5	82	nw.	7	3	.....	.....	10 n	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	29.00	736.5	30.50	774.7	33.3	0.7	89	calm	0	0	.....	.....	10	.....	.....	0.248	6.3	snowing	Physical Observatory.
Vernoe	27.75	704.8	30.39	772.0	29.8	— 1.2	87	se.	2	1	.....	.....	10 n	.....	.....	.....	.....	snowing	Sarlono.
Viatka	29.62	752.3	30.30	769.7	15.3	— 9.3	71	ssw.	2	1	.....	.....	0	.....	.....	0	0	.....	
Vladivostock	30.10	764.5	30.17	766.2	16.3	— 8.7	76	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.79	756.7	30.23	767.9	38.5	3.6	87	nw.	11	5	.....	.....	10 n	.....	.....	.....	.....	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.55	750.6	29.86	758.5	9.7	—12.4	86	w.	4	2	.....	.....	5	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.67	753.6	30.21	767.3	33.9	1.1	79	w.	4.3	1.9	.....	0	6 s	.....	w.	0	0	fair	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.08	764.1	30.19	765.9	56.8	13.8	84	ene.	.....	.....	.....	0	1	.....	.....	0	0	clear	B.J.Elin.
Bilbao, Met. Obs'y	29.95	760.6	30.00	762.1	60.8	16.0	62	s.	2.0	0.9	.....	2	0	nw.	.....	0	0	almost clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.10	688.3	30.13	765.2	46.6	8.1	87	w.	3.8	1.7	.....	.....	9	.....	.....	0.024	0.6	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.8	30.11	764.9	53.8	12.1	71	se.	5.4	2.4	.....	0	4	.....	.....	0	0	clouds	The Staff.
Murcia, Met. Obs'y	29.97	761.2	30.10	764.5	60.3	15.7	77	sw.	0.7	0.3	.....	2	7	e.	.....	0	0	foggy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.01	736.9	29.92	759.9	51.6	10.9	58	s.	16.1	7.2	.....	.....	4	.....	.....	0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.05	763.3	30.12	765.0	69.7	20.9	91	e.	4.5	2.0	.....	0	k;s	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.96	761.0	30.02	762.4	76.0	24.4	72	e.	4.4	2.0	.....	0	s	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.3	30.11	764.8	58.8	14.9	87	calm	0	0	.....	2	6	nw.	nw.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I.	30.02	762.4	30.11	764.7	75.9	24.4	82	e.	5.8	2.6	.....	3 s	4 k	e.	e.	0.567	14.4	d. clouds	Enrique Gaden, Chf Eng
SWEDISH.																			
Haparanda	29.55	750.6	29.59	751.6	29.8	— 1.2	96	sw.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Umea	29.80	756.9	29.85	758.2	34.2	1.2	89	sw.	.....	.....	2	.....	6	.....	.....	0	0	.....	
Hernosand	29.78	756.5	29.84	757.8	36.3	2.4	85	ssw.	.....	.....	2	.....	6	.....	.....	0	0	.....	
Stockholm	29.82	757.5	30.00	762.0	38.1	3.4	83	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	29.97	761.1	30.02	762.6	36.7	2.6	93	w.	.....	.....	4	.....	10	.....	.....	0.130	3.3	.....	
Sub-series.																			
Upsala	29.85	758.2	29.94	760.4	37.2	2.9	86	ssw.	11.4	5.1	.....	.....	6	.....	wsw.	0.004	0.1	.....	H.H.Hildebrandesson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.46	773.7	43.0	6.1	61	ene.	20	9.0	.....	.....	4	.....	ene.	0	0	.....	The Observatory.
Valona	.....	.....	30.39	771.9	59.4	15.2	.....	ne.	.....	.....	2	.....	8	.....	.....	0	0	¾ covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.08	763.9	62.1	16.7	65	ne.	.....	.....	1	c	10 n	.....	sw.	0.11	2.8	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.21	767.3	30.30	769.6	36	2.2	69	e.	4	1.8	.....	.....	10s;fg	.....	.....	0.39	9.9	cloudy	J. O. Barnes.
Alpena, Michigan	29.66	753.4	30.37	771.4	14.8	— 9.6	83	e.	14	6.3	.....	.....	10 n	.....	.....	0.02	0.5	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.74	628.4	29.84	757.9	38.2	3.4	82	sw.	14	6.3	.....	0	8 k	.....	sw.	0.25	6.3	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.38	695.4	30.44	772.7	—26.0	—32.2	100	sw.	21	9.4	.....	0	0	.....	.....	0	0	clear	F. Newman.
Atlanta, Georgia	29.04	737.6	30.26	768.6	58.8	14.9	96	s.	11	4.9	.....	.....	fg.	.....	.....	0	0	dense fog	S. W. Beall.
Atlantic City, New Jersey	30.25	768.3	30.26	768.6	41.0	5.0	92	e.	6	2.7	.....	.....	10 s	.....	.....	0.43	10.9	cloudy	B.A.Blundon.
Augusta, Georgia	30.12	765.0	30.32	770.1	58	14.4	84	s.	1	0.4	.....	10 cs	hz.	s.	.....	0	0	cloudy	W.J.Evans.
Baltimore, Maryland	30.25	768.3	30.30	769.6	41	5.0	92	e.	2	0.9	.....	10n;fg	.....	.....	s.	0.05	1.3	light rain	Geo. W. Felger.
Barnegat City, New Jersey	30.25	768.3	30.27	768.8	40.5	4.7	100	sw.	5	2.2	.....	.....	fg	.....	.....	0.03	0.8	dense fog	F.L.Johnson.
Bennett, Fort, Dakota	28.86	733.0	30.59	777.0	—14.5	—25.8	74	nw.	3	1.3	.....	.....	10 s	.....	.....	0.00	1.5	cloudy	A. Pritchard.
Benton, Fort, Montana	27.48	698.0	30.48	774.2	—28.6	—33.7	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.56	725.4	30.54	775.7	—16.0	—29.7	100	n.	2	0.9	.....	.....	10 n	.....	nw.	0.04	1.0	light snow	B. O. Lenoir.
Block Island, Rhode Island	30.28	769.1	30.30	769.6	35.0	1.7	89	ne.	12	5.4	.....	.....	10n;fg	.....	.....	0.28	7.1	light rain	J. T. Elker.
Boise City, Idaho	27.43	696.7	30.39	771.9	— 6.5	—21.4	91	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	James Kenealy.
Boston, Massachusetts	30.14	765.5	30.30	769.6	29.2	— 1.6	100	nw.	3	1.3	.....	.....	10 n	.....	n.	0.12	3.0	sleeting	O. B. Cole.
Brownsville, Texas	29.79	756.7	29.85	758.2	68.0	20.0	100	se	16	7.2	.....	0	5 s	.....	se.	0	0	fair	John McGlone.
Buffalo, New York	29.50	749.3	30.29	769.4	23	— 5.0	89	ne.	12	5.4	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	Wm. Flinn.
Buford, Fort, Dakota	28.31	719.1	30.52	775.2	—14	—25.6	100	w.	3	1.3	.....	.....	10 n	.....	.....	inap.	inap.	light snow	A. Schneider.
Cairo, Illinois	29.54	750.3	29.99	761.0	58.0	14.4	86	s.	6	2.7	.....	3 ck	5 s	s.	s.	0.03	0.8	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.30	769.0	30.50	774.7	19.0	— 7.2	72	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J.H.Young.
Cape Henry, Virginia	30.31	769.9	30.33	770.4	40.0	7.8	100	sw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	A. K. Alderson
Cape May, New Jersey	30.27	768.8	30.30	769.6	41.7	5.4	100	s.	9	4.0	.....	.....	10s;fg	.....	.....	0.02	0.5	cloudy	W.E.Smith.
Cape Mendocino, California	29.40	746.7	30.10	764.5	30	— 1.1	78	nw.	.....	.....	2	0	3 ks	.....	nw.	0	0	fair	A. P. Leavitt.
Cedar Keys, Florida	30.21	767.3	30.23	767.8	66.4	19.1	100	e.	8	3.6	.....	0	2 k	.....	se.	inap.	inap.	clear	G. W. Davis.
Charleston, S. Carolina	30.21	767.3	30.27	768.8	61.5	16.4	100	calm	0	0	.....	3 c	7 s;fg	.....	.....	0.06	1.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.44	747.8	30.33	770.4	50.0	10.0	100	ne.	2	0.9	.....	.....	fg	.....	.....	0	0	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.32	744.7	30.18	766.6	59.0	15.0	90	se.	8	3.6	.....	0	8 k;fg	.....	sw.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.84	605.5	30.10	764.5	—25.2	—31.8	100	n.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	E. McGovern.
Chicago, Illinois	29.34	745.2	30.02	764.3	29.1	— 1.6	87	ne.	17	7.6	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.29	769.4	30.31	769.9	42.1	5.6	100	se.	5	2.2	.....	.....	10n;fog	.....	e.	0.14	3.6	light rain	C. F. Dickens
Cincinnati, Ohio	29.41	747.0	30.10	764.5	48.5	9.2	97	calm	0	0	.....	.....	fg.	.....	.....	0.29	7.4	dense fog	L.Dunne.
Cleveland, Ohio	29.44	747.8	30.23	767.8	33.0	0.6	88	ne.	2	0.9	.....	.....	10 s	.....	ne.	0.47	11.9	cloudy	W.Line.
Columbus, Ohio	29.26	743.2	30.16	766.1	40.3	4.6	87	w.	4	1.8	.....	.....	10 n	.....	.....	0.21	5.3	light rain	F.T. Williams
Concho, Fort, Texas	28.02	711.7	30.04	763.0	39.3	4.1	100	nw.	3	1.3	.....	.....	10 s	.....	.....	0.26	6.6	cloudy	C. E. King.
Custer, Fort, Montana	27.08	687.8	30.44	773.2	—18	—27.8	100	w.	3	1.3	.....	.....	10 n	.....	.....	0.17	4.3	light snow	W.J.Daily.
Davenport, Iowa	29.34	745.2	30.04	763.0	24	— 4.4	80	ne.	13	5.8	.....	.....	10 n	.....	.....	0.10	2.5	light sleet	R. R. Martin.
Davis, Fort, Texas	25.05	636.3	30.01	762.2	39.0	3.9	66	se.	6	2.7	.....	6 cs	0	.....	.....	0	0	fair	J. Williams.
Dayton, Washington T'y	28.77	730.7	30.59	777.0	—16	—26.7	77	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	H.S.Blandford.
Deadwood, Dakota	25.38	644.6	30.30	769.6	—25.0	—31.7	100	calm	0	0	.....	0	0	.....	.....	0.13	3.3	clear	G.Kingsbury.
Delaware Breakwater, Del	30.35	770.9	30.37	771.4	41.5	5.3	100	sw.	5	2.2	.....	.....	10s;fg	.....	.....	0.15	3.8	cloudy	G.A.Martin.
Denver, Colorado	24.65	626.1	30.17	766.3	— 8.4	—22.4	100	ne.	1	0.4	.....	0	0	.....	.....	0.02	0.5	clear	F. M. Neal.
Des Moines, Iowa	29.14	740.1	30.11	764.8	19.4	— 7.0	77	ne.	12	5.4	.....	.....	10 n	.....	ne.	0.40	10.2	light snow	F. W. Conrad.
Detroit, Michigan	29.51	749.5	30.26	768.6	29.1	— 1.6	88	ne.	8	3.6	.....	.....	10 n	.....	.....	0.20	5.1	light rain	N.B.Conger.
Dodge City, Kansas	27.44	697.0	30.18	766.6	— 4	—20.0	100	nw.	24	10.7	.....	.....	10 s	.....	nw.	0.08	2.0	cloudy	J.E.Lanouette.
Dubuque, Iowa	29.40	746.7	30.16	766.1	15.8	— 9.0	82	ne.	9	4.0	.....	.....	10 n	.....	.....	0.14	3.0	sleeting	J. Harvey Smith
Duluth, Minnesota	29.63	752.6	30.14	773.2	1.0	—17.2	85	ne.	28	12.5	.....	.....	10 n	.....	.....	0.11	2.8	light snow	E.R.Brace.
Eastport, Maine	30.26	768.6	30.33	770.4	29.0	— 1.7	94	s.	4	1.8	.....	.....	10 n	.....	s.	0.10	4.1	light snow	D. C. Murphy.
Elliott, Fort, Texas	27.16	689.9	30.06	763.5	4.2	—15.4	100	ne.	28	12.5	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	J. C. Rickli.
El Paso, Texas	26.09	662.7	29.97	761.2	45.0	7.2	73	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.47	748.5	30.24	768.1	30.0	— 1.1	88	ne.	4	1.8	.....	.....	10 s	.....	.....	0.46	11.7	cloudy	C. A. Shaw.
Escanaba, Michigan	29.55	753.1	30.37	771.4	7.0	—13.9	89	n.	13	5.8	.....	.....	10 s	.....	.....	0.05	1.3	threatening	L.M.Pindell.
Fort Smith, Arkansas	29.36	745.7	29.86	758.4	39.3	4.1	100	w.	12	5.4	.....	.....	10 n	.....	.....	1.75	44.4	heavy rain	J. B. Campbell.
Galveston, Texas	29.88	758.9	29.92	760.0	66.3	19.1	97	s.	14	6.3	.....	.....	10 n	.....	se.	0.09	2.3	light rain	E. O'C. MacInerney
Grand Haven, Michigan	29.48	748.8	30.19	766.8	21.0	— 6.1	84	ne.	12	5.4	.....	.....	10 s	.....	ne.	0.03	0.8	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.00	635.0	29.86	758.4	36.6	2.6	74	e.	4	1.8	.....	0	4 ks	.....	nw.	0.43	10.9	fair	Chas. A. Read.
Hatteras North Carolina	30.30	769.6	30.31	769.9	52.0	11.1	93	ne.	7	3.1	.....	6 k	3 s	nw.	n.	0	0	cloudy	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.94	658.9	30.28	769.1	−12	−24.4	82	n.	2	0.9			10 s			0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.95	735.3	30.47	773.9	−12.8	−24.9	100	n.	15	6.7			10 n			0.09	2.3	light snow	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	30.04	763.0	42.3	5.7	88	e.	3	1.3			10 n		e.	0.18	4.6	light rain	C. F. R. Wappenhans.
Indianola, Texas	29.83	757.7	29.86	758.4	68.2	20.1	92	s.	19	8.5			10 s			0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.21	767.3	30.26	768.6	60.0	15.6	96	se.	3	1.3		0	fg.			0.04	1.0	clear	J. W. Smith.
Keokuk, Iowa	29.29	744.0	29.99	761.7	31.0	−0.6	88	calm	0	0			10 n			0.70	17.8	light rain	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	73	22.8	87	e.	6	2.7		1 cs	2 ks	sw.	e.	0.08	2.0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.34	770.6	30.36	771.1	44.6	7.0	95	ne.	1	0.4			fg.			0	0	dense fog	Wesley Blake.
Knoxville, Tennessee	29.13	739.9	30.21	767.3	55.2	12.9	92	ne.	2	0.9			10s;sk		sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.41	747.0	30.25	768.3	13	−10.6	80	ne.	10	4.5			10 n			0.09	2.3	light snow	S. C. Emery.
Leavenworth, Kansas	29.13	739.9	30.08	764.0	13	−10.6	61	nw.	12	5.4			10 n			0.45	11.4	sleeting	T. S. Outram.
Lewiston, Idaho	29.85	758.2	30.72	780.3	−16.0	−26.7	44	calm	0	0		0	0				0	clear	C. E. Butler.
Little Rock, Arkansas	29.50	749.3	29.83	757.7	62.0	16.7	93	s.	6	2.7			10 n			0.13	3.3	light rain	W. U. Simons.
Los Angeles, California	29.52	749.8	29.92	760 0	48.2	9.0	89	ne.	4	1.8			10 s			inap.	inap.	cloudy	T. S. Collins
Louisville, Kentucky	29.45	748.0	30.04	763.0	53.0	11.7	86	ne.	2	0.9			10 s		sw.	0.55	14.0	cloudy	L. M Dey.
Lynchburg, Virginia	29.59	751.6	30.31	769.9	46.5	8.1	88	sw.	2	0.9			10 s			0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.70	754.4	30.40	772.1	15.0	−9.4	83	ne.	15	6.7			10 n			0.05	1.3	light snow	D. B. Notson.
Macon, Fort, North Carolina	30.30	769.6	30.31	769.9	52.7	11.2	96	ne.	8	3.6			10 s		sw.	0.04	1.0	cloudy	William Daly.
Maginnis, Fort, Montana	25.52	648.2	30.27	768.8	−13.4	−25.2	50	nw.	13	5.8		5 ck	0	nw.		0.06	1.5	fair	F. Burke.
Marquette, Michigan	29.66	753.4	30.44	773.2	9.0	−12.8	87	n.	4	1.8			10 n			0.26	6.6	light snow	J. Gilligan.
Memphis, Tennessee	29.57	751.1	29.92	760.0	61.5	16.4	94	se	10	4.5			10 s		se.	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.36	745 7	30.16	766.1	24.8	−4.0	85	e.	20	8.9			10 s			0.06	1.5	cloudy	S. W. Rhode.
Mobile, Alabama	30.05	763.3	30.09	764.3	65	18.3	92	se.	9	4.0			10 s		s.	0.12	3.0	cloudy	H. U. Jones.
Montgomery, Alabama	29.91	759 7	30.15	765.8	62	16.7	90	se.	6	2.7		3 cs	fg.			inap.	inap.	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.39	746.5	30.49	774.4	−20.5	−29 2	100	n.	10	4.5		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.76	603.5	30.38	771.6	15.0	−9.4	93	nw.	30	13.4			10n;fg		nw.	0.04	1.0	light snow	Edwd. A. Beals.
Nashville, Tennessee	29.44	747.8	30.05	763.3	57.4	14.1	87	e.	7	3.1		7ck;cs	0	sw		inap.	inap.	fair	L. N. Jesunofsky
New Haven, Connecticut	30.17	766.3	30.29	769.4	32.6	0.3	100	e.	6	2.7			10 n			0.21	5.3	light rain	J. H. Sherman.
New London, Connecticut	30.26	768.6	30.31	769.9	35.0	1.7	100	ne.	3	1.3			10n;fg		ne.	0.15	3.8	light rain	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.02	762.5	66.0	18.9	93	se.	9	4.0			fg.			inap.	inap.	dense fog	M. Herman.
New York, New York	30.11	764 8	30.30	769.6	35.5	1.9	100	ne.	4	1.8			fg.			0.21	5.3	dense fog	H. J. Penrod.
Norfolk, Virginia	30.29	769.4	30.32	770.1	49.5	9.7	94	s.	3	1.3			10s;fg			inap.	inap.	cloudy	Wm. Davis.
North Platte, Nebraska	27.23	691.6	30.33	770.4	−10.2	−23.4	82	nw.	9	4.0			10 s			0.03	0.8	cloudy	J. J. Mc Lean.
Olympia, Washington Ter	30.50	774.7	30.54	775.7	5.0	−15.0	87	calm	0	0		0	0			0	0	clear	J. Discomb
Omaha, Nebraska	29.01	736.8	30.28	769.1	0.0	−17.8	91	n.	17	7.6			10 s			inap.	inap.	cloudy	A. Pollak
Oswego, New York	29.94	760.5	30.30	769.6	20.8	− 6.2	91	ne.	16	7.2			10 n			0.11	2.8	light snow	J. G. Linsley.
Palestine, Texas	29.33	745.0	29.91	759.7	58.5	14.7	93	nw.	18	8.0			10 n		nw.	0.64	16.3	thund'r st'm	P. T. Jenkins.
Pensacola, Florida	30.10	764.5	30.13	765.3	67.2	19.2	95	se.	10	4.5		3 cs	4 s	w.	se.	0	0	fair	M. McGauran.
Philadelphia, Pa	30.16	766.1	30.26	768.6	42.0	5.6	86	ne.	1	0.4			fg.			0.03	0.8	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.26	438.4	29.98	761.5	0.0	−17.8	83	s.	9	4.0			10 n			0.03	0.8	light snow	H. Hall.
Pittsburg, Pennsylvania	29.34	745.2	30.20	767.1	51.8	11.0	93	s.	2	0.9			10n;fg		sw.	0.29	7.4	light rain	O. D. Stewart.
Poplar River, Montana					−16.3	−26.8	100	e.			1		10 s			0	0	cloudy	G. A. Garden.
Port Huron, Michigan	29.53	750.0	30.26	768.6	24.0	− 4.4	92	ne.	10	4.5			10 s			0.06	1.5	cloudy	M. H. Perry
Portland, Maine	30.27	768 8	30.32	770.1	26.0	− 3.3	88	n.	5	2.2			10 n		n.	0.10	2.5	light snow	W. W. Eichelberger.
Portland, Oregon	30.46	773.7	30.53	775.4	10.0	−12.2	87	n	1	0.4		0	0			0	0	clear	M. L. Hearn.
Prescott, Arizona	24 47	621.5	29.83	757.7	34.2	1.2	78	sw.	17	7.6		4 k	0	sw.		0.30	7.6	fair	N. D. Lane.
Provincetown, Mass	30.20	768 6	30.29	769.4	35.7	2.1	98	e.	5	2.2			10 n			0.13	3.3	light rain	C. N. Kitchel.
Red Bluff, California	29.85	758.2	30.22	767 6	27	− 2.8	77	n.	16	7.2		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.64	752 8	29.88	758.9	69.2	20.7	89	s.	5	2.2		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.60	751.8	30.31	769.9	22	− 5.6	87	ne.	13	5.8			10s;sk			0.25	6.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.82	757.4	30.39	771.9	13	−10.6	85	n.	1	0.4		0	4 k		n.	0	0	fair	J. J. Naury.
Sacramento, California*	30.09	764.3	30.16	766.1	29.5	− 1.4	77	n.	12	5.4		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.27	743.4	29.93	760.2	39.7	4.3	100	ne.	6	2.7			10n;fg			0.25	6.3	heavy rain	J. H. Weber.
St. Michael, Fort, Alaska	30.54	775.7	30.57	776.5	16	− 8.9	91	ne.			1	3 c	0			0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.36	745.7	30.29	769.4	11.9	−11.2	63	n.	5	2.2			10 s		nw.	0.18	4.6	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.58	751.3	30.55	776.0	−14.8	−26.0	71	s	2	0.9			10 s			0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.54	648.7	30.10	764.5	10.3	−12.1	40	nw.	2	0.9			10 ks		sw.	0.62	15.7	threatening.	J. Craig.
San Diego, California	29.96	761.0	30.02	762.5	49.6	9.8	61	w.	10	4.5			10 s		w.	0.06	1.5	cloudy	F. R. Day.
Sandusky, Ohio	29.48	748.8	30.20	767.1	32	0.0	78	ne.					10 s		ne.	0.76	19.3	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.27	768.8	30.30	769.6	35.9	2.2	100	e.	1	0.4			fg.			0.39	9.9	dense fog	V. P. Chappel.
Sanford, Florida	30.16	766.1	30.22	767.6	65.0	18.3	92	se.	4	1.8		0	8 ks			0.01	0.3	cloudy	J. B. Marbury
San Francisco, California	30.07	763.8	30.14	765.5	36.5	2.5	57	se.	6	2.7		0	0			0	0	clear	N. Gorom
Savannah, Georgia	30.18	766.6	30.27	768.8	59.5	15.3	90	se.	1	0.4		0	8 s		se.	0	0	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.55	674.4	30.40	772.1	−11	−23.9	78	se.	1	0.4			10 s			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.62	752.3	29.80	756.9	66.8	19.3	85	s.	9	4.0			10 s		s.	inap.	inap.	cloudy	E. N. Meekins.
Sitka, Alaska	30.49	774.4	30.56	776.2	27	− 2.8	77	ne.	4	1.8		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	30.27	768.8	30.31	769.9	59.0	15.0	100	ne.	3	1.3			10s;fg		sw.	0.10	2.5	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.42	721.9	30.56	776.2	−17.0	−27.2	77	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.23	742.4	29.96	761.0	39.0	3.9	82	e.	8	3.6			10 n		e.	0.57	14.5	heavy rain	T. B. Jennings.
Stockton, Fort, Texas	26.84	681.7	29.97	761.2	39.0	3.9	78	calm	0	0		0	4 s			0.02	0.5	fair	J. W. Byram.
Tatoosh Id., Wash. Ter	30.43	772.9			26.3	− 3.2	80	e.	6	2.7		0	0			0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.06	687.3	29.89	759.2	34	1.1	82	calm			0	0	8 s			0.21	5.3	cloudy	R. O. Lord.
Toledo, Ohio	29.48	748.8	30.22	767.6	31.3	− 0.4	92	ne.	1	0.4			10 s		ne.	0.17	4.3	cloudy	A. Buell.
Unalashka, Alaska	30.06	763.5	30.08	764.0	37	2.8	89	e.	28	12.5			10 n		e.	1.81	46.0	light rain	Samuel Applegate.
Vicksburg, Mississippi	29.70	754 4	29.98	761.5	63.5	17.5	87	se.	11	4.9		0	5 s		s.	0	0	fair	C. Dill.
Washington, D. C	30.18	766 6	30.30	769.6	42.1	5.6	100	calm	0	0			fg.			0.03	0.8	dense fog	T. B. Harrison.
West Las Animas, Colorado	26.03	661.2	30.15	765.8	− 5.5	−20.8	100	n.	7	3.1			10 n		n.	0.12	3.0	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	30.26	768.6	30.32	770.1	60.0	15.6	93	se.	1	0.4			10 s			0.09	2.3	cloudy	L. H. Albrecht.
Yankton, Dakota	28.97	735.8	30.39	771.9	−11.6	−24.2	70	n.	24	10.7			10 n		n.	0.17	4.3	light snow	E. H. Thompson.
Yuma, Arizona	29.73	755.1	29.88	758.9	48.9	9.4	62	nw.	8	3.6		1 c	0	sw.		0	0	clear	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.56	750.8	29.58	751.3	27.3	− 2.6	82	se.	6	2.7			10 n		se.	0.01	0.3	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.					74	23.3		nw.			1	1 c	2 k	sw.	ne.	0.02	0.5	fair	W. R. Jackson.
Bogota, U. S. C.	22.03	559.5			55.4	13.0	87	n.	2	1		1 cs	5 k	w.	w.	0.118	3.0		Joaquin Gomez.
Chimo, Fort, Ungava	30.06	763.5	30.22	767 6	−32	−35.6	100	sw.	41	18.3		10 c	0	s.		0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.			30.09	764.3	68.8	20.4	81	n.	1	0.4		7 ck	0	w.		0	0	fair	Robert Johnstone.
Paramaribo, S. A.	30 06	763.5	30.06	763.5	77	25.0	86	se.			2	5 ck	5 k	e.	e.	0.120	3.0		Dr C. J. Herme.
Puerto Berrio, U. S. C.	29.43	747.5	29.99	761.7	78	25.6	89	calm			0	0	9 ks		s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	90	ne.			1					0	0	fair	Earl Flint.
York Factory, B. A.	30.42	772.7	30.50	774.7	−32.0	−35.6		nw.	12	5.4		2 c	1 s	nw.	nw.	0.01	0.3	fair	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.90	759.5	29.91	759.8	78.8	26.0	95	n.	11.2	5.0		0	6 k		n.	0	0	fair	P. Fasiant.
Naos, Bay of Panama	29.93	760.1	29.99	761.8	74.1	23.4	90	n			4	0	1 k		n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Alvo, Jacmel, Hayti, W.I*	30.17	766.3	74	23.3		ssw.			3		4		calm	0	0	short	s.	fine.
S. S. Alleghany, Baltimore, Md. †	30.28	769.1	46	7.8		calm			0		10			0	0			foggy.
S. S. Ailsa, N. 15° 28′, W. 74° 24′			78	25.6	93	e.			3		8		e.	0	0	sm'h		fair.
S. S. America, N. 49° –′, W 16° –′			43	6.1	83	wsw.			7		5		w.	5 h'r	5 h'r	r'gh	w.	fair.
S. S. Alps, Kingston, Jamaica, W.I*†	30.12	765.0	75	23.9		n.			1		6		s.	rain	rain	short		
Schr. Annie R. Lewis, N. 21° 31′, W. 84° 12′ †	30.07	763.8	78	25.6		e.			4		5		ese	0	0	mod.	ese.	fair.
S. S. Anchoria, off Lough Foyle, Ireland						ssw.			9		7		ssw.	18 h'r	18 h'r	h'vy	w.	fair.
S. S. British Crown, N. 49° 10′, W. 18° 08′†	28.95	735.3	49	9.4		sw.			6		5		sw.	0	0	high	w.	
S. S. Caracas, Curacoa, W.I			79.5	26.4	86	e.			4		5		e	0	0	light	ne.	fair.
S. S. Canada, (Br) N. 49° 36′, W. 5° 35′			51	10.6	100	s.			9		10			sh'rs	sh'rs	h'vy	s.	gloomy.
S. S. Canada, (Br) N. 41° 44′, W. 64° 35′			35.6	2.		se			4		10		se.			sm'h	se.	misty.
S. S. Chalmette, N. 36° 24′, W 75° 00′*†	30.25	768.3	50	10.0		ne.			2					0	0	mod.	ne.	foggy.
S. S. Devonia, N. 44° 44′, W. 49° 00′ †	30.25	768.3	26	– 3.3		wnw.			4		8		wnw.	6 h'r	6 h'r	short	nw.	cloudy.
S. E. J. Spicer, N. 36° 20′, W. 41° 20′	30.38	771.6	53	11.7	93	nw.			5		10		nw.	rain	rain	mod.	nnw.	raining.
S. S. Frisia, N. 49° 11′ W. 25° 59′	28.86	733 0	43.2	6.2		sw.			6		4		w.	snow	snow	h'vy	var.	squally.
S. S. Grecian, N. 55° 34′, W. 11° 58′	28.78	731.0	47	8.3	85	ssw.			9		10		wsw.	5 h'r	5 h'r	high	sw.	squally.
S. S. Hermann, N. 37° 49′, W. 74° 49′	30.32	770.1	40.6	4.8		s.			2		10		s.	1 h'r	1 h'r	sm'h	w.	foggy.
Bk. Havana, N. 29° 39′ W. 79° 45′ *†	30.20	767.1	78?	25.6?	86	se.			5		4		s.	8 h'r	8 h'r	short	se.	squally.
S. S. Iowa, N. 43° 21′, W. 49° 16′			29	– 1.7		wnw.			7		5		wnw.	5 h'r	5 h'r	long	wnw.	fair.
Bg. L. & W. Armstrong, N. 34° 09′, W. 74° 05′*†	30.40	772.1				sw.			2		4		wsw.	½ h'r	½ h'r	sm'h	se.	
S. S. Marengo, N. 47° 06′, W. 35° 31′ *†	29.48	748.8	39	3.9		nw.			9		10		nw.	3 h'r	3 h'r	h'vy	nw.	snowing
S. S. Neckar, N. 40° 33′, W. 73° 18′	30.21	767.3	41.0	5.0	100	se.			1		10		se.	rain	rain	sm'h		foggy.
S. S. Orinoco, Hamilton, Bermuda†	30.36	771.1	66	18.9		calm			0		3		calm	0	0			clear.
S. S. Oregon, (Br) Liverpool, Eng *	29.59	751.6	46	7.8		ssw.			6		10		ssw.	4 h'r	4 h'r	long	w.	showery.
S. S. Ohio, (Am) Liverpool, Eng *†	29.68	753.9	50	10.0	86	ssw.			5		10		ssw.	0	0			cloudy.
S. S Pennsylvania, Liverpool, Eng			41	5.0	100	sw.			4		5		wsw.	2 h'r	2 h'r			light rain.
S. S. Rhynland, N. 49° 57′, W. 12° 59′	29.17	740.9	50	10.0	93	sw.			6		10		w.	13 h'r	13 h'r	high	sw.	squally.
S. S. Sardinian, N. 53° 02′, W. 21° 54′	28.59	726.2				wsw.			9		10		w.	hail	hail	h'vy	wsw.	overcast.
S. S. Switzerland, N. 45° 37′, W. 42° 09′ *†	29.96	761.0				nw.			8		10		nw.	14 h'r	14 h'r	h'vy	nw.	snowing.
S. S. Samaria, N. 42° 20′, W. 70° 32′	30.30	769.6	36	2.2		ene.			1		10		w.	7 h'r	7 h'r	sm'h		snowing.
S. S. Scythia, N. 41° 28′, W. 61° 00′	30.25	768.3				e.			2		10			0	0	sm'h		overcast.
S. Salisbury, N. 33° 03′. W. 74° 05′	30.33	770.3	68.7	20.4	89	s.			2–3	2 c		s.	wnw.	0	0	mod	ese.	clear.
S. S. Valencia, N. 21° 50′, W. 68° 55′†	30.20	767.1	78	25.6	82	se.			5		3		ese.			h'vy	e.	fair.
S. S. Belgenland, off Start Pt, Eng			48	8.9	78	sw.			6				sw.	0	0	r'gh	ssw.	hazy.
Schr Adda Doane, Kingston, Jamaica, W.I †	30.07	763.8				n.			1		2		ne.	0	0			clear.
Bg, Alcira. Cascahal, Venezuela *	30.00	762.0	80	26.7		nne.			2		4		ene.	0	0			hazy.
S. S. Britannic, N. 41° 34′ W. 58° 34′ *†	30.29	769.4	48	8.9		ese.			4		9		e.	4 h'r	4 h'r	sm'h		raining.
S. S. British Prince, N. 42° 10′. W. 50° 00′ †	30.36	771.1	31	– 0.6		nnw.			5		6		nw.	20 h'r	20 h'r	h'vy	nw.	fair
Bk. Chas. Stewart, N. 36° 07′, W. 5° 21′*†	30.20	767.1				w.			1		10		sw.	0	0	sm'h	w.	cloudy.
Bk. Cato, N. 39° 40′, W. 38° 22′ †	30.17	766.2				wnw.			7		6		wnw.	0	0	h'vy	wnw.	fair.
S. S. Donau, N. 41° 40′, W. 60° 04′	30.24	768.1	48.2	9.0		sse.			5		10		s.	0	0	mod.	se.	overcast.
S. S. D. J. Foley, N. 20° 37′, W. 74° 15′ *†	30.08	764.0	79	25.1	82	e.			6		4		ese.	0	0	long	e.	clear.
S. S. Gellert, Start Pt, Eng			54	12.2	87	s.			6		4		s.	0	0	rg'h	w.	fair.
S. S. New York, N. 25° 00′, W. 83° 45′ *†	30.14	765.5	74	23.3		se.			5		5		se.	0	0	mod.	se.	fair.
S. S. Pavonia, N. 45° 38′, W. 41° 19′	29.92	760.0	34	1.1	71	nw.			7		7		nw.	10 h'r	10 h'r	high	nw.	snow squalls
S. Parker M. Whitmore, N. 46° 45′, W. 17° 47′ *†	29.25	742 9	47	8.3		wsw.			8		5		w.	5 h'r	5 h'r	high	wsw.	hail squ'lls.
S. S. Sirius, N. 5° 16′, W. 46° 00′	29.95	760.7				nne.			4		3		nne.	4 h'r	4 h'r	long	ne.	clear.
S. S. Vaderland, N. 50° 00′, W. 22° 00′			42	5.6		w			7		7		w.	4 h'r	4 h'r	high	w.	h'vysqualls
S. S. Wieland, N. 48° 31′, W. 35° 02′			40	4.4		wnw.			7–8		3		wnw.	rain	rain	h'vy	sw.	stormy.
S. S. Westphalia, Hamburg, Germany			50	10.0	93	ese.			4		3		w	0	0			fair.
S. S. Reliance, N. 15° 08′ W. 61° 54′			79	26.1		e.			5							sm'h	w.	clear
S. S. Nurnberg, N. 47° 50, W. 21° 49′	29.03	737.3	66.2?	19.0?		w.			6		8		w.	8 h'r	8 h'r	high	w.	cloudy.
U. S. Navy Yard, Portsmouth, N.H.			25	– 3.9	87	nnw.	4	1.8			10		n.					snowing
U. S. S. Alliance, off San Juan, Porto Rico, W.I	30.13	765.3	74	23.3	86	ene.			4		8		ne.	0	0	mod	ne.	cloudy.
U. S. S. Kearsarge, Naples, Italy	30.32	770.1	58	14.4	82	ssw.			1		5							fair.
U. S. S. Lancaster, Naples, Italy	30.33	770.4	60	15.6	88	calm			0		5		n.	0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R.I	30.32	770.1	34	1.1	100	calm			0		10					sm'h		drizzling.
U. S. S. Quinnebaug, Leghorn, Italy	30.21	767.3	59	15.0	76	wnw.			1		8		se.			sm'h		fair.
U. S. S. Swatara, Kingston, Jamaica, W.I	30.07	763.8	71	21.7	85	calm			0		2		calm	light	light	sm'h		clear.
U. S. S. Tennessee, New Orleans, La	30.05	763.3	65	18.3	94	se.	8	3.6			8		se.	inap.	inap.			cloudy.
U. S. S. Trenton, Naples, Italy	30.31	769.9	60	15.6	71	nnw.			1		2		nnw.					fair
U. S. S. Vandalia, Curacoa, W. I	30.01	762.2	78	25.6	82	ene.			2		2		e.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.35	770.9	67	19.4	64	ene.			1		10	ene.						overcast.
H. M. S. Alecto, N. 9° 10′, W. 14° 30′	29.93	760.2	81	27.2		wnw.			1		3					1	nw.	d. clouds.
H. M. S. Boadicea, N. 8° 53′, W. 13° 52′	29.95	760.7	78	25.6	91	wnw.			1		3	wnw.				1	wnw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.37	771.4	64	17.8	83	calm			0		2	ene.						d. clouds.
H. M. S. Himalaya, N. 31° 49′, W. 26° 50′	30.02	762.5	68	20.0	95	wsw.			3		1	sse.				3	w.	blue sky.
H. M. S. Monarch, Port Said, Egypt	30.08	764.0	67	19.4	60	calm			0		0							blue sky.
H. M. S. Minotaur, Cagliari, Sardinia	30.17	766.3	58	14.4	88	se.			2		1							misty.
H. P. M. S. Douro, St Thomas, Gulf of Guinea	29.86	758.4	89.2	31.8	80	sse.			1		5		se.	0	0	1	se.	d. clouds.
S. S. Prussian, N 44° 54′, W. 40° 22′			30	– 1.1		nw.			7		5		nw.			h'vy	nw.	snow squalls
S. S. Scandinavian, Glasgow, Scotland	29.37	746.0	46	7.8		ssw.			7		10		ssw.	12 h'r	12 h'r			rain squalls
S. S. Dorian, N. 48° 23′, W. 35° 33′			38	3.3		nnw.			7		10			snow	snow	h'vy	n.	overcast.
S. S. Carroll, Halifax, N.S			24	– 4.4		se.			2		10		se.	light	light			snowing.
S S. Llandaff City, N. 47° 40′, W. 34° 30′ *†	29.25	742 9	42	5.6		nw.			7		10					h'vy	nw.	snowsqualls
S. S. Wisconsin, N. 50° 45′, W. 16° 40′	28.91	734.3	56	13.3		wsw.			9		9		w.	10 h'r	10 h'r	high	w;sw	squally.
S. S. Rhaetia, N. 41° 51′ W. 62° 01′	30.23	767.8	44	6.7		ese.			3–4		10			6 h'r	6 h'r	sm'h	se.	rainy.
S. S. Hevelius, N. 12° 36′, W. 25° 40′ *†	30.13	765.3	71	21.7		nne.			4		9?		sse.	0	0			clear.?
S. S. Rosse, N. 22° 05′, W. 21° 51′	30.18	766.6	70	21.1	70	nne.			5		4		n.	0	0	long	n.	fine.
S. S. Archimede, (It.) Palermo, Sicily			62	16.7		ne.			2		3		ne.	0	0			clear.
S. S. Picqua, N. 41° 00′, W. 53° 47′			40	4.4	73	n.			1				wnw.	0	0	high	n.	fair.
S. S. Dominion, Halifax, N. S			31?	–0.6?		sse.			2		8		calm			sm'h	e.	cloudy.
S. S. Ontario, N. 43° 12′, W. 58° 00′	30.31	769.9	28	– 2.2		e.			5		10		w.	6 h'r	6 h'r	sm'h		overcast.
S. S. Denmark, N. 43° 22′, W. 45° 25′†	30.35	770 9	34	1.1	100	nw.			7		7		nw.	sh'rs	sh'rs	r'gh.	nw;n	cloudy.
S. S. Erin, N. 46° 03′, W. 41° 12′			26	– 3.3		wnw.			6		6		wnw	8 h'r	8 h'r	high	wnw.	snow squalls
S. S. Strassburg, off Lillo, Belgium			49.0	9.4	78	s.			3		2		s.	5 h'r	5 h'r			fair.
S. S. City of Augusta, Scotland Light, Sandy Hook, N.J						ene.			4		10		ene.	0	0	h'vy	se.	foggy.
S. S. Waesland, Antwerp, Belgium			51	10.6		ssw.			5		7		sw.	0	0			clearing.
S. S. Westernland, Jersey City, N. J			52?	11.1?	93	se.			2		10			3 h'r	3 h'r			foggy.
S. S. Zaandam, N 43° 42′, W. 45° 51′			45.3?	7.4?	84	nw.			6		6		nw.	4 h'r	4 h'r	h'vy	n.	snow squalls
S. S. State of Nevada, N. 47° 55′ W. 43° 57′*†	29.70	754.4	27	– 2.8		nnw.			8		8		nnw.	hail	hail	high	nw.	cloudy.
S. S. Saxon, Boston, Mass *†	30.25	768.3	34	1.1		calm			0		10			snow	snow			snowing.
S. S. Celtic, Liverpool, Eng*†	29.60	751.8	54	12.2		ssw.			8		9		sw.	12 h'r	12 h'r			rain squalls
S. S. Lepanto, Malta, Mediterranean			62	16.7		se.			2		3		se.	0	0			fine.
S. S. Romano, N. 48° 32′, W. 9° 45′			54	12.2		s.			4		10			0	0	h'vy	sw.	hazy.
S. S. Salerno, New York, N. Y†	30.30	769.6	36	2.2		ne.			2		10		ne.	0	0			foggy.
S. S. Antonio Lopez, Cadiz, Spain	30.06	763.5	60.5	15.8	82	calm			0	4c				0	0			fair.
Bgt. Achsah, N. 32° 42′, W. 59° 56′ †	30.40	772.1	69	20.6		w.			1		2		wnw.	0	0	long	se.	clear.
S. Armenia, N. 49° 30′, W 9° 20′ *	29.34	745.2	55.5	13.1	90	ssw.			6		8		sw.	3 h'r	3 h'r	hv'y	sw.	clearing.
Bk. Adelaide, N. 15° 14′, W. 33° 20′			77	25.0		ene.			5		3	s.	ene.	0	0	r'gh	ene.	hazy.
Bk. Benjamin Dickerman, N. 32° 45′, W. 72° 30′*†	30.40	772.1	69	20.6		se.			1		1		se.	0	0	long	ese.	clear.
S. Cornelius, N. 39° 03′ W. 72° 54′*†	30.28	769.1	46.6	8.1		sw.			3		10			4 h'r	4 h'r	h'vy	e.	foggy.
S. Dora, N. 54° 45′, W. 24° 27′†	27.95	709.9	41.9	5.5		wnw.			10		10		nw.	8 h'r	8 h'r	h'vy	nw.	hurricane.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. David Stewart, Barbadoes, W.I.			76	24.4		ene			6		2		ene.	0	0	mod.	ene.	
Schr. Edith R. Seward, N. 32° 30′, W. 62° 55′ †	30.40	772.1	69	20.6		wnw.			1		3		s.	0	0	long	ese.	clear.
Bk. Fred W. Carlon, Progreso Roads, Mexico†	30.06	763.5	80	26.7		se.			4		0			0	0	sm'h	ene.	clear.
Bk. Gloire, N. 20° 29′, W. 54° 50′ *	30.15	765.8	80	26.7		ene.			5		5		ene.	rain	rain	short	ese.	fair.
Bk. George Davis, N. 36° 00′, W. 68° 36′						wnw.			5				wnw.	0	0		nw.	clear.
Bk. Galeon, Grimsby Roads, Eng			47	8.3		ssw.			5		9		sw.	0	0			overcast.
S. Hedwig, N. 42° 13′, E. 17° 11′	30.37	771.3	60.1	15.6	75	se.			2		1		n.	0	0	sm'n		clear.
Bk. Hattie G. McFarland, N. 29° 01′, W. 88° 06′†	30.22	767.6	65	18.3		sse.			6		10		sw.	6 h'r	6 h'r	r'gh	se.	stormy.
S. Henry, N. 36° 33′, E. 14° 04′ *	30.30	769.6	58.3	14.6		ese.			2-3	6 ck	0					1-2	sse	cloudy.
Schr. John L. Thomas, South Hobbies Cays, C. A †	30.00	762.0	76	24.4	80	ene.			2		1		ene.	0	0			clear.
Bg. John Welsh, jr., N. 26° 44′, W. 86° 00′ †	30.07	763.8				ese.			4		10?					r'gh	se.	clear.?
Bg. Lilian, N. 10° 00′, W. 58° 00′†	30.09	764.3	81	27.2		ene.			5		8		w.	½ h'r	½ h'r	r'gh	var.	cloudy.
S. S. Laurel, Key West, Fla †	30.13	765.3	73	22.8		ese.			4		9		ese.	sh'rs	sh'rs			light rain.
Bg. L. F. Munson, N. 30° 52′, W. 56° 03′			70	21.1		calm			0		1		n.	0	0	sm'h		clear.
S. S. Madrid, Shields, Eng†	29.79	756.7	52	11.1	86	ssw.			4		10		ssw.	0	0			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga *†	30.28	769.1	70?	21.1?		s.			1				sw.	0	0	sm'b	ne.	clear.
Schr. Norena, Fajardo, Porto Rico, W. I †	30.10	764.5				ne.			3		4		ne.	3 h'r	3 h'r			showery.
Bk. Orpheus, N. 49° 18′, W. 9° 37′ *	29.28	743.7	54	12.2		s.			8		6 k		w.			h'vy	ssw.	raining.
S. S. Radnorshire, N. 37° 17′, E. 4° 55′						var.			1		2		var.	0	0			hazy.
Bgt. Sunlight, N. 38° 50′, W. 72° 00′†	30.29	769.4				sw.			4		10		w.	4 h'r	4 h'r	mod.	ese.	cloudy.
S. St. David, N. 1° 32′, W. 28° 00′			83.3	28.5	83	ne.			3		9		var.	2 h'r	2 h'r			hazy.
S. Stephen D. Horton, Antwerp, Belgium †	30.18	766.6				sse.			4		3		sse.	0	0			clear.
Bk. Silica, N. 47° 13′, W. 16 30′						wsw.			8		8		wsw.	sh'rs	sh'rs	h'vy	var.	cloudy.
Bg. Teneriffe, Havana, Cuba, W. I.	30.15	765.8				se.			2		0			0	0			fine.
S. Vincenzo Accame, N. 39° 00′, W. 71° 30′ †	30.37	771.3	53.6	12		ssw.			3		10		ssw.	2 h'r	2 h'r	r'gh	ene.	
S. S. City of Alexandria, N. 34° 22′, W. 75° 50′*†	30.29	769.4	70	21.1		nw.			1							mod.	ne.	misty.
S. S. City of Washington, N. 21° 59′, W. 88° 50′ *†	30.10	764.5	81	27.2		ne.			1							sm'h		fine.
S. S. Maasdam, N. 40° 20′, W. 34° 15′ *	29.33	745.0	39.6	4.2		nw.			7							high		squally.
S. S. Strathleven, N. 47° 31′, W. 30° 45′ *	29.09	738.9	38.5	3.6	95	wnw.			6		10					7	wnw.	snowing.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.91	759.7	75	23.9	72	n.			2		2		calm					clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.72	754.9	73.5	23.1	74	n.			4		2	s.						misty.
H. M. S. Opal, Simons Bay, Cape Colony*†	29.78	756.4	72	22.2	71	se.			6		0							squally.
H. P. M. S. Rainha de Portugal, Oabinda, Guinea	29.81	757.2	77.9	25.5	88	ssw.			3		9		ssw.	5 h'r	5 h'r	3		raining.
H. P. M. S. Bengo, S. 4° 42′, E. 5° 18′	29.91	760.4	82.4	28.0	88	wsw.			2		5		sw.	5 h'r	5 h'r	3	sw.	blue-sky.
Bk. Celestina, S. 8° 35′, W. 32° 25′ *†	29.98	761.5				se.			2		3		se.	0	0	mod.	se;e.	clear.
S. S. George S. Homer, S. 38° 05′, W. 33° 59′*†	30.14	765.5				nw.			3		2		var.	0	0	sm'h	nw.	fine.
Bk. Godeffroy, S. 9° 52′, W. 31° 52′	29.95	760.7	83.1	28.4	77	ene.			4-5	cs	3 k		e.	0	0	mod.	e.	hazy.
S. Grecian, S. 46° 13′, W. 42° 33′ †	29.51	749.5	52	11.1	100	nw.			5		10		nw.	c	0	mod.	nw.	foggy.
S. Henry Failing, S. 39° 18′, W. 31° 30′*†	30.13	765.3	65	18.3	68	nnw.			6		7		w.	0	0	sm'h	sw.	fair.
Bk. Horace Scudder, S. 7° 03′, E. 11° 07′*†	30.05	763.3	83	28.3		sw.			2		8		sw.	4 h'r	4 h'r			hazy.
Bkt. Levanter, Montevideo, Uruguay*	29.83	757.7	74	23.3		n			3		2			0	0	sm'h		clear.
Bk. Winifred, S. 17° 52′, W. 34° 30′ *†	30.05	763.3											ene.	0	0		se.	
S. Orealia, S. 29° 19′, W. 25° 00′*	29.97	761.2				se.			3		5		wnw.	0	0	short	sw.	fair.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 25° 36′, E. 136° 36′	30.32	770.1	64	17.8	73	e.			4		8		e.			long	e.	cloudy.
U. S. S. Essex, Canton, China	30.11	764.8	50	10.0	93	nnw.			2		10							raining.
U. S. S. Hartford, N. 11° 44′, W. 127° 45′	29.93	760.2	78	25.6	95	ne.			5		5		ne.	0	0	sm'h	ne.	fair.
U. S. S. Juniata, Shanghai, China	30.25	768.3	42	5.6	91	ene.			1		10		calm	light	light			cloudy.
U. S. S. Monocacy, Shanghai, China	30.26	768.0	43	6.1	83	ese.			2		10		calm					cloudy.
U. S. S. Palos, Tientsin, China	30.15	765.8	32	0.0		sw.			1		10							cloudy.
U. S. S. Ranger, Cape Desolado, Nicaragua	30.00	762.0	76	24.4	91	nnw.			4		8			0	0	light		cloudy.
H.M.S. Audacious, Victoria harbor, Hong Kong, China			59	15.0	94	calm			0		2	sw.						d. clouds.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.03	762.7	59	15.0	88	s.			1		10	n.				2		raining.
H. M. S. Champion, Shanghai, China	30.22	767.6	40	4.4	91	ne.			1		10							overcast.
H. M. S. Flying Fish, Hope Bay, China	30.07	763.8	56	13.3	87	ne.			3		10					3	ne.	raining.
H. P. M. S. Tamega, Macao, China	30.14	765.5	59.0	15.0	83	n.			3		10			20 h'r	20 h'r			raining.
S. S. Newbern, N. 24° 44′, W. 112° 20′ *†	30.05	763.3	66	18.9	84	nw.			4		5		nw.	0	0	small	wnw.	fair.
S. S. Oceanic, N. 43° 30′, W. 168° 55′	29.21	741.9	50	10.0	100	se.			4		9		se.	0	0	5	e.	cloudy.
S. S. Oregon, San Francisco, Cal †	30.14	765.5	36	2.2	?	calm			0		0							clear.
S. S. Willamette, N. 43° 30′, W. 124° 35′†	30.31	769.9	24	— 4.4	100	n.			5		0			0	0	mod.	n.	clear.
S. S. Alameda, San Francisco, Cal †	30.08	764.0	36	2.2		nw.			3		0			0	0			clear.
S. S. Ancon, San Francisco, Cal.	30.09	764.3	36	2.2	70	ene.			2		0			0	0			clear.
S. S. City of Chester, San Francisco, Cal †	30.12	765.0	37	2.8	62	calm			0		0			0	0			clear.
S. S. Queen of the Pacific, San Francisco, Cal	30.07	763.8	40	4.4	82	ne.			1		0			0	0	sm'h		clear.
S. S. State of California, N. 42° 16′, W. 124° 30′			35	1.7	63	ene.			3		0					sm'h	nw.	clear.
S. S. Eureka, N. 46° 09′, W. 123° 20′			12	—11.1	100	ne.			3		0			0	0	sm'h		clear.
S. S. City of Rio de Janeiro, N. 29° 40′, E. 126° 51′						se.			6		6		nne.			mod.	n.	fair.
S. S. Colima, N. 14° 56′, W. 92° 33′ †	30.00	762.0	77	25.0	91	nne.			2		1		calm	0	0	small	se.	clear.
S. S. Granada, N. 19° 24′, W. 105° 08′ †	29.96	761.0	76	24.4	82	nw.			2		0			0	0	light	w.	clear.
S. S. San Blas, Panama, Panama †	29.95	760.7	73	22.8	90	nw.			3		4		n.	0	0			clear.
S. S. Benalder, Kobe, Japan *	30.24	768.1	41	5.0	74	w.			1-3		0			0	0	sm'h		
S. Carondelet, N. 27° 08′, E. 129° 50′ *†	30.12	765.0				e.			5		0?			3 h'r	3 h'r	mod.	e.	rainy?
S. St. Francis, N. 11° 00′, W. 120° 15′ *†	30.00	762.0	78	25.6	73	ene.			4		4		ne.	0	0	mod.	n.	fair.
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru *†	30.03	762.7	68	20.0	100	calm			0		10		se.			mod.	w.	misty.
U. S. S. Wachusetts, Callao, Peru *	29.99	761.7	68	20 0	95	calm			0		5		calm			sm'h		fair.
H. M. S. Espiegle, S. 43° 37′, E. 172° 44′	29.92	760.0	55	12.8	68	sw.			4		4							squally.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.06	763.5	57.3	14.1	82	calm			0		2					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.90	759.4	60	15.6	94	calm			0		10							overcast.
S. S. Australia, S. 5° 35′, W. 168° 22′	30.04	763.0	81	27.2	87	n			2		4		n.	0	0	sm'h	sw.	fair.
S. S. Zealandia, S. 34° 20′, E. 168° 31′	29.95	760.7	69	20.6	65	w.			3		4		sw.	0	0	h'vy	e.	fair.
S. Ismir, S. 40° 05′, W. 89° 01′ *†	30.48	774.2				ssw			7		10		wsw.	0	0	2	s.	overcast.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.91	759.7	62	16.7		n.			1		10					sm'h		
H. M. S. Sylvia, off Sandy Point, Patagonia	29.46	748.3	45.7	7.6	88	nw.			2		10							overcast.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, Port Elizabeth, Cape Colony	29.89	759.2	74	23.3	76	sse.			2		2		calm	0	0	sm'h		clear.
H. M. S. Euryalus, Suakin, Egypt	29.99	761.7	74	23.3	76	e.			2		4	calm						d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.99	761.7	82	27.8	79	e.			2		2							d. clouds.
S. S. Port Philip, Melbourne, Australia	29.92	760.0	80	26.7	51	s.			1							sm'h		clear.
H. M. S. Magpie, N. 6° 00′, E. 99° 47′	29.90	759.4	84.1	28.9	76	nw.			1		2	ssw.						d. clouds.

International Chart I. February 12, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 13 .1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ALGERIAN.																			
Nemours			30.08	764.1	64.4	18.0	88	se.			1		3			0	0	pretty fair	Roziere.
Algiers			30.11	764.7	65.5	18.6	60	calm			0		4			0	0	cloudy	Thève.
La Galle			30.16	766.0	66.6	19.2	77	ese.			1		2			0	0	fair	Fonfrède.
Tunis			30.25	768.3	54.7	12.6	38	n.			5		3			0	0		Delord.
Geriville					57.6	14.2	47	se.			5		3			0	0	pretty fair	Forfert.
Laghouat			30.26	768.6	65.1	18.4	80	calm			0		0			0.528	13.4	clear	Abraham.
Biskra			30.28	769.0	68.0	20.0	66	calm			0		0			0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			30.00	762.0	76.0	24.4	45	sse.	7	3.1			10 k			0	0	overcast	Charles Todd, C. M. G.
Hobart Town, Tasmania								s.							s.				Com. J. Shortt, R.N.
Melbourne, Victoria	29.82	757.4	29.91	759.7	73.5	23.1	47	wsw.	13	5.8			2			0	0	fine	L. L. . . Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.84	758.0	30.42	772.6	40.6	4.8	71	e.			1		10			inap.	inap.		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.64	752.9	30.45	773.3	39.4	4.1	85	n	1.3	0.6			9			0	0		Dr. Wierzbiski
Eperies	29.49	749.0	30.40	772.2	41.0	5.0	74	calm			0		10 ks			0.083	2.1		Julius Mikolik.
Gratz	29.16	740.6	30.47	773.8	39.6	4.2	87	w.			2		10			0.008	0.2		Andreas Rospini.
Hermannstadt	28.87	733.3	30.38	771.6	34.3	1.3	80	s.			2		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	29.00	736.7	30.41	772.5	36.0	2.2	93	ene.			1		10			0	0	foggy	The Staff.
Lemberg	29.34	745.2	30.37	771.5	36.7	2.6	89	ne.			2		10			0.031	0.8		Dr. T. Stanecki.
Pola	30.21	767.3	30.32	770.2	50.4	10.2	82	nw.			4		3			0.031	0.8		I. R. Hydrographic Office.
Szathmar	29.84	758.0	30.33	770.4	37.9	3.3	92	n.			3		9			0.083	2.1		Joseph Midlinszky, S. J
Szegedin	30.06	763.6	30.36	771.1	39.0	3.9	72	s.			2		8			0	0		Karl Stancel.
Trieste	30.30	769.5	30.39	772.0	48.6	9.2	95	calm			0		10			0	0		Royal Academy.
Vienna	29.74	755.4	30.50	774.6	36.5	2.5	87	n.			1		10			0	0		I. R. Central Met. Obs'y.
BELGIAN.																			
Arlon	28.86	733.1	30.27	768.8	47.5	8.6	85	e.			2		0			0	0		
Brussels	29.96	760.9	30.16	766.0	54.0	12.2	65	se.			1		0			0	0		
Furnes	30.06	763.6	30.08	764.1	52.5	11.4	76	s.			1–2		0			0	0		
Maeseyck	30.12	765.0	30.24	768.2	53.8	12.1	59	se.			1		0			0	0		
BRITISH.																			
Aberdeen	29.56	750.8	29.65	753.1	44.7	7.1	90	sse.	29	13.0			10			0.495	12.6	overcast	W. Boswell.
Bidston, Liverpool Obs'y			29.73	755.1	49.1	9.5	76	sse.	25	11.2			10					overcast	John Hartnup.
Bolton, Sharples	29.22	742.2	29.76	755.9	48.9	9.4	73	sse.	12	5.4			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.39	746.5	29.79	756.7	51.0	10.6	67	s.			5		9			0.04	1.0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.05	763.3	30.08	764.0	79	26.1	67	ne.			7		3					showery	Corp'l C. McGregor, A.H.C
Cardington					52.4	11.3	74	s.			1.0		6					d. clouds	John McLaren.
Chatham, School M. E.	29.82	757.4	30.00	762.0	53.6	12.0	75	s.			3		3					d. clouds	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.52	749.8	29.74	755.4	49.0	9.4	94	s.			5		10					overcast	The Staff.
Fort Napier, Natal																			Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.71	754.6	29.94	760.5	84	28.9	79	nw.			1		5					d. clouds	J. W. Smith.
Galway, Queen's College	29.31	744.5	29.35	745.5	43	6.1	92	sw.			4		8			0.30	7.6	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.12	765.0	30.17	766.3	62.0	16.7	88	nw.			3		2					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.79	756.7	29.96	761.0	54.1	12.3	74	ssw.					3					blue sky	The Staff.
Guernsey	29.60	751.8	29.90	759.4	48.0	8.9	92	s.			3		10					drizzling	A. Collenette, F.R.M.S.
Kew, Observatory	29.90	759.4	29.94	760.5	52.5	11.4	74	s.	24	10.7			5					d. clouds	The Staff.
Leicester, Museum	29.60	751.8	29.85	758.2	52.3	11.3	77	ssw.			2		5					blue sky	J. C. Smith.
Malta, Mediterranean	30.17	766.3	30.25	768.3	59.6	15.3	74	e.			2		3			0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.17	766.3	74.0	23.3	86	se.			2		2					blue sky	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.66	753.4	29.89	759.2	53.1	11.7	77	s.			6		6					d. clouds	The Staff.
Plymouth	29.72	754.9	29.79	756.7	49.4	9.7	93	s.			5		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.37	746.0	29.47	748.5	44.5	6.9	92						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.24	768.1	30.31	769.9	44.0	6.7	52	ene.			2		8					d. clouds	W. H. Lyne.
Sheffield	29.55	750.6	29.84	757.9	52.1	11.2	73	sw.			3		5					d. clouds	W. F. Cooper.
Stilloth Rectory	29.63	752.6	29.66	753.4	49.8	9.9	90	s.			5		10			0.365	9.3	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.78	756.4	48.5	9.2	74	s.	35	15.6			10			0.126	3.2	overcast	Rev. S. J. Perry.
Strathfield Turgiss					53.8	12.1	80	sw.			3.0		7					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.54	750.3	29.56	750.8	44.1	6.7	80	sw.	13	5.8			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.92	760.0	30.31	769.9	59.7	15.4	65	e.	4.3	1.9		0	4 k		e.	0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B	30.28	769.1	30.32	770.1	7.0	—13.9		calm	0	0			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.37	771.4	30.41	772.4	5	—15.0	95	e.	8	3.6			10 n			0.160	4.1	snowy	H. J. Cundall, C. E.
Chatham, N. B*	30.29	769.4	30.36	771.1*	3	—16.1	100	se.	4	1.8			10 n		se.	0.23	5.8	light snow	G. A. Blair.
Cornwall, Ontario	29.32	744.7	29.52	749.8	28.1	— 2.2	98	e.			1		10 s			0.310	7.9	d clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.24	768.1	30.30	769.6	9.0	—12.8		e.			5		10 n			0	0	snowy	H. A. Johnson.
Father Point, Quebec*	30.03	762.7	30.05	763.3	7	—13.9	69	e.	20	8.9			10 n			0.40	10.2	heavy snow	J. McWilliams
Fort Garry, Manitoba*	29.01	736.8	30.00	762.0	—25	—31.7	85	s.	6	2.7		0	0			0	0	clear	James Stewart.
Fredericton, N. B	30.20	767.1	30.27	768.8	7.6	—13.6	100	e.	9	4.0			10 n			0.225	5.6	snowy	Prof. Thos. Harrison.
Grand Manan, N. B	30.15	765.8	30.21	767.3	28	— 2.2	88	se.	24	10.7			10 n			0.15	3.8	sleeting	J. Chipman Seeley
Granton, Ontario	28.66	726.4	29.73	755.1	32.1	0.1	97	w.	9	4.0			10 n			inap.	inap.	sleeting	Jas. Grant.
Halifax, N. S*	30.25	768.3	30.39	771.9	14	—10.0	96	e.	9	4.0			10 n			0.140	3.6	light snow	A. Allison.
Hamilton, Ontario	29.31	744.5	29.73	755.1	32.5	0.3	89	sw.			1	10 cs	0	sw.		0.430	10.9	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.29	744.0	29.63	752.6	40	4.4	92	se.	20	8.9			10 n		se.	0.15	3.8	cloudy	A. P. Knight, M. A.
Little Grace Bay, N. S	30.35	770.9	30.39	771.9	9.0	—12.8	100	se.	4	1.8			10 n			0.100	2.5	snowing	C. H. Rigby.
London, Ontario	28.81	731.8	29.73	755.1	34.8	1.6	93	w.			2		10 ks			0.36	9.1	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.63	701.8	30.17	766.3	— 3	—19.4	87	s.	25	11.2		0	0			0.08	2.0	fog	John Ewart.
Minnedosa, N. W. T	27.80	706.1	29.94	760.5	— 3	—19.4	100	nw.	9	4.0			10 ks		nw	0	0	threatening	Rev. J. M. Wellwood
Montreal, Quebec*	29.40	746.7	29.61	752.1	37	2.8	89	s.	28	12.5			10 n		s.	0.20	5.1	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.31	744.5	29.53	750.0	29.2	— 1.6	99	e.					10 s			inap.	inap.	sleeting	A. McGill, M. A.
Parry Sound, Ontario*	28.91	734.3	29.63	752.6	28	— 2.2	88	w.	17	7.6			10 n		nw.	0.11	2.8	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.90	734.0	29.66	753.4	35.7	2.1	80	sw.			1		10 k			0.31	7.9	overcast	Wm. O'Connor, M.A.
Port Arthur	29.13	739.9	29.91	759.7	0	—17.8	68	s.	4	1.8			10 n			0.09	2.3	cloudy	W. P. Cooke.
Port Dover, Ontario	28.99	736.3	29.69	754.1	42	5.6	100	sw.	7	3.1			10 n			0.33	8.4	threatening	H. Morgan.
Port Stanley, Ontario	29.08	738.6	29.74	755.4	38	3.3	96	w	12	5.4			10 n		sw.	0.34	8.6	light rain	M. Payne.
Qu Appelle, N. W. T	27.46	697.5	29.92	760.0	4	—15.6		w.	10	4.5		10 cs	0	calm		0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.45	748.0	29.83	757.7	14	—10.0	83	n.	24	10.7			10 n		n.	0.15	3.8	sleeting	Capt. Asse, R. N.
Rockliffe, Ontario*	28.95	735.3	29.44	747.8	24	— 4.4	88	calm	0	0			10 s		se.	0.71	18.0	light rain	W. H. McIntyre.
St. Andrews, N. B	30.13	765.3	30.18	766.6	27	— 2.8	96	se.	16	7.2			10 n			0.28	7.1	light fog	
St. John, N. B	30.08	764.0	30.23	767.8	20.5	— 6.4	100	se.	16	7.2			10 n			0.175	4.4	snowing	G. Hutchinson.
St. Pierre, N. F			30.35	771.0	15.8	— 9.0		nw.			2								The Commandant.
Saugeen, Ontario	28.96	735.6	29.71	754.6	27	— 2.8	88	w.	12	5.4			10 s			0.08	2.0	cloudy	
Stratford, Ontario	28.41	721.6	29.72	754.9	32.0	0.0	90	sw.	5	2.2			10 s			1.400	35.6	d. clouds	W. McBride, M.A.
Sydney, C. B*	30.46	773.7	30.53	775.4	2	—16.7	91	calm	0	0			10 n			0	0	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian—Continued.																			
Toronto, Ontario*	29.26	743.2	29.64	752.8	40	4.4	96	w.	16	7.2			10 ks		w.	0.13	3.3	cloudy	[illegible] Observatory.
Woodstock, Ontario	28.64	727 4	29.73	755.1	35.6	2.0	90	w.	21	9.4			10 s			0	0	squally	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.18	766.6	30.25	768.3	31	— 0.6	88	e.	13	5.8			fg			0.13	3.3	dense fog	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.87	758 7	29.90	759.4	74.0	23.3	88	ne.				6 ck	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.72	754.9			76.2	24.6	59	se.				5 c;k	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			73	22.8	57									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.85	758.1	29.92	760.0	60.8	16.0	89	sw.			5	0						clear	Samuel Redolez.
Iquique	29.89	759.2	29.92	759.9	73.6	23.1	74	sw.			2							cloudy	Rafael Moreno.
Niebla	29.64	752.9	29.75	755.6	60.1	15.6	66	e.			1		1 n		s.	0	0		Federico Köhling.
Punta Caldera	29.85	758.3	29.94	760.5	66.2	19.0	83	ne.			1	6 c		ne.				fair	Manuel Tobar.
Punta Corona	29.95	760.8	30.14	765 5				s.			2	0				0	0	clear	Francisco Alvarado.
Valparaiso	29.77	756.1	29.91	759.6	63.3	17.4	86	s.			0	0	0					clear	Paez-I-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.20	767.1	30.22	767 7	39.9	4.4	77	nw.	1.6	0.7			10			0.138	3.5	raining	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.38	771.6	30.43	772.8	42.1	5.6	89	sse.	13	6.			0						Oversergent Fischer.
Fanöe	30.28	769.0	30.30	769.5	44.4	6.9	80	sse.			4		0						Overloerer Lauridsen.
Godthaab, Greenland	29.14	740.1	29.18	741.2	— 0.1	—17.8	100	nne.			4		10					snowing	S. Kleinschmidt.
Ivigtut, Gree land	28.98	736.0	29.00	736.5	— 3.1	—19.5		ne.			4		8						
Jacobshavn, Greenland	29.39	746.4	29.43	747.6	—31.0	—35.0		calm			0		3						
Stykkisholm, Iceland	28.35	720.1	28.39	721.2	37.2	2.9	86	se.			7		8					raining	A. O. Thorlacius.
Thorshavn	29.35	745.4	29.37	746.0	45.1	7.3	83	se.	16	7			10						Overloerer Bergh.
Upernavik, Greenland	29.44	747 8	29.49	749.0	—30.3	—34.6		ne.			2		0						
Vestervig	30.14	765.6	30.23	767.9	44.4	6.9	79	sse.			6		0						Loerer Oesterbol.
Egyptian.																			
Cairo	29.95	760.8			60.8	16.0		nw.	2.5	1.1		0	8 k			inap.	inap.		Albert Ismalun.
French.																			
Agen, Normal School	29.48	748.9	30.13	765.4	59.4	15.2	87	ese.			2		1			0	0	misty	M. Labroue, Director.
Alençon, Normal School	29.50	749.2	30.05	763 2	49.3	9.6	92	se.			1		1		nw.	0	0	clear	M. Nicot, Director.
Arras, Normal School	29.85	758.1			53.8	12.1	58	s.			2		0			0	0	clear	M. Ungerer, Director.
Avignon, Normal School	30.21	767.2	30.28	769 2	56.8	13.8	65	se.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.62	752.4	30.18	766.6	55.2	12.9	55	se.			2		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.82	757.5	30.09	764.3	52.9	11.6	67	sse.			1		0			0	0	clear	M. Frère Eugène Marlé.
Besançon, Normal School	29.23	745.0	30.22	767 7	62.6	17	61	ne.			2		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.76	755.8	30.02	762.4	59.0	15.0	67	sse.			1		5		ssw.	0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.77	756.2	30.32	770.1	60.8	16	59	se			2		1		se.	0	0	clear	M. Sauvageot, Director.
Brest, Naval Observatory	29.68	753.8	29.92	760 0	50.7	10.4	89	sw.			4		10		sw.	0.031	0.8	raining	M. de Kermarée, Dir.
Caen, Normal School	29.89	759.2	29.97	761.1	56.5	13.6	95	e.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.80	757.0	30.12	765.1	58.8	14.9	80	sse.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.68	753.8	30.20	767.0	54.7	12.6	93	se.			1		0			0.08	2.	clear	M. Noël, Director.
Clermont-Ferrand Obs'y	28.76	730 4	30.11	764.7	58.3	14.6	42	s.			4		2 k			0	0		M. Alluard, Director.
Cluny, Normal School	29.34	745.3	30.21	767.4	54.7	12.6	59	s.			1		1	n.		0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.39	746.4	30.26	768.7	51.8	11.	64	se.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.71	703.7	30.27	768.8	50.2	10.1	54	calm			0		4 n			0	0		M. Jarach, Director.
Grésque, du Rhone	29.14	740 1	30.28	769.1	53.8	12 1	69	se.			3		10		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.36	745.8	30.06	763.5	51.8	11.	84	e.			2		kn		e.	0	0		M. Ablard, Director.
Guéret, Normal School	28.59	726.2	30.17	766.3	55.4	13	66	sw.			4		2 k		nw.	0	0	slightly cl'dy	M. Delorme, Dir.
Lescar, Normal School	29.44	747.8	30.00	761.9	66.9	19.4	45	ne.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.80	756 9	29.90	759.5	52.9	11.6	80	sse.			4		10		s.	0.028	0.7	covered	L. T. Carré, Director.
Lyon, St. Genis-Laval	29.15	740 5	30.22	767.5	56.1	13.4	54	sse.			4		2 cn		s.	0.004	0.1	slightly cl'dy	M. André, Director.
Mans, Normal School	29.69	754.0	29.99	761.8	55.6	13.1		ssw.			4		5 k		sw.	0	0	cloudy	M. Richard, Director.
Marseille, Observatory	29.99	761.7	30.26	768.6	58.5	14.7	60	ese.			1		10		se.	0.016	0.4		M. Stephan, Director.
Montlouis	24.93	633.1	29.77	756.1	46.4	8.0	46	wsw.	20.6	9.2			4	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.10	764.5	30.21	767.3	54.3	12.4	83	se.			4		10		ese.	0	0	covered	M. Galzin, Director.
Nancy, Normal School	29.49	749.1	30.29	769.3	51.1	10.6	70	s.			1	ck				0	0		M. Hasse, Director.
Nantes, Observatory	29.84	757.8	30.00	761.9	57.0	13.9	69	sse.			0-2	ck	9 kn			0	0		M. Larocque, Director.
Perpignan, Observatory	30.04	763.0	30.15	765.8	64.6	18.1	51	se.	9.4	4.2			3			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.21	538.8			27.5	— 2.5		wsw.			2-4		1		sw.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.16	740.7	30.24	768.0	55.8	13.2	64	se.			1		n		se.	0.39	10.		M. Taillieu.
Puy de Dôme Obs'y, Summit	25 22	640 6			39.0	3.9	86	s.			2		2			0	0		M. Alluard.
Rochefort, Naval Obs'y	29.97	761.1	30.00	761.9	59.4	15.2	68	sse.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.75	755.6	29.97	761.1	56.1	13.4	75	se.			1				se.	0	0		M. Brotier, Director.
Rodez, Normal School	28 00	711 2	30.17	766.4	51.8	11		se.			4		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.01	762 3	30.06	763.5	56.1	13.4	62	e.			1		0			0	0	clear	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.95	760.8	30.12	765.0	56.7	13.7	62	se.			2					0	0		M. Renou, Director.
Toulouse, Observatory	29.40	746.7	30.12	765.1	59.5	15.3	67	sse.			8		0			0	0	clear	M. Baillaud, Director.
Tours	29.87	758.8	30.06	763.4	58.6	14.8	80	s.			1		5	sw.	ssw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.60	751.8	30.10	764.4	55.8	13.2	66	s.			2		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29 87	758.7	30.02	762.5	63.0	17.2	53	e.	4.0	1.8		8 ck		wnw.		0	0		M. Cartier, Director.
German.																			
Ansbach	28 91	734.3	30.43	772.8	39.2	4.0	81	se.			2		10	se.		0	0		Prof. Juedt.
Bamberg	29.50	749.2	30.35	770.8	39.7	4.3	62	calm			0		4 s			0	0		Prof. Dr. Hoh.
Berlin	30.29	769.3	30.44	773.1	46.4	8.0	72	se.			2		0			0.012	0.3		Meteorological Institute
Breslau	29.96	761.0	30.50	774.7	36.0	2.2	100	calm			0		10	nne.		0	0	foggy	Royal University Obs'y
Carlsruhe	29.88	758.9	30.35	771.0	46.0	7.8	75	ene.			3		9	ne.		0	0		Albert Senz.
Cassel	29.62	752.3	30.33	770.4	42.1	5.6	78	s.			3		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.01	762.3	30.39	772.0	41.5	5.3	83	ese.			1		10			0	0		Physical Society.
Friedrichshafen	28.89	733.8	30.37	771.3	40.3	4.0	84	ne.			2		10	e.		0	0		Wilhelm, Chief Tel.
Hamburg	30.28	769.0	30.37	771.3	44.2	6.8	73	se.			3		0			0	0	misty	E. Preller.
Kiel	30.31	769.9	30.33	770.3	44.2	6.8	69	se.			1		0			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.97	761.2	30.41	772.3	43.5	6.4	76	sse.			1		0			0	0		H. Leppig, Asst.
Magdeburg	30.20	767 1	30.39	772.0	46.2	7.9	67	se.			2		0			0	0		Weather Observatory.
Memel	30.44	773.1	30.48	774.3	39.4	4.1	97	w.			2		10					foggy	Issermann.
Munich	28.49	723.7	30.38	771 6	36.9	2.7	95	calm			0		10	e.		0	0		Central Station.
Neufahrwasser	30.54	775.7	30.56	776.1	41.7	5.4	77	nw.			2		9	w.		0	0		A. Lothes.
Neustadt, Palatinate	29.80	756.9	30.33	770 4	43.7	6.5	84	calm			0		10			0	0	light fog	Prof. Dicknether.
Stuttgart	29.38	746 3	30.31	769.8	43.3	6.3	81	e.			1		10			0	0	foggy	Prof. Dr. Schoder.
Wustrow	30.39	771.8	30.41	772 4	41.0	5.0	84	ese.			3		8 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens																			Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.81	757 1	29.86	758.4	78.9	26.1	52	wnw.	16.0	7.2			10			0	0	overcast	
Deesa	29.36	745.7	29.83	757.7	82.9	28.3	16	w.	8.0	3.6			2	w.		0	0	d. clouds	
Bombay	29.89	759.2	29.93	760.1	76.4	24.7	68	wnw.	9.0	4.0			0			0	0	blue sky	
Poona, Yarrowda	28.02	711.7	29.88	758.9	77.8	25.4	31	sw.	23.0	10.3			0			0	0	blue sky	
Belgaum	27.35	694 6	29.90	759.3	74.8	23.8	49	sw.	6.0	2.7			1	s.	e.	0	0	d. clouds	
Lahore	29.11	739 4	29.87	758.7	67.7	19.8	30	n.	4.0	1.8			0			0	0	blue sky	
Roorkee	28.90	734 0	29.81	757.2	71.7	22.1	27	calm	0	0			2			0	0	blue sky	
Agra	29.24	742.6	29.80	757.0	78.2	25.7	18	nw.					0			0	0	blue sky	
Nagpur	28.74	729 9	29.77	756.1	83.5	28.6	33	w.	3.0	1.3			3	w.		0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.44	722.5	29.81	757.1	76.8	24.9	24	w.	6.0	2.7			0			0	0	blue sky	
Lucknow	29.45	748.1	29.84	757.8	74.2	23.4	27	wsw.	1.0	0.4			0			0	0	blue sky	
Allahabad	29.47	748.5	29.78	756.5	76.8	24.9	39	calm	0	0			0			0	0	blue sky	
Patna	29.67	753.6	29.86	758.4	72.9	22.7	35	nw.	2.0	0.9			0			0	0	blue sky	
Hazaribagh	27.80	706.2	29.83	757.6	73.4	23.0	24	wnw.	2.0	0.9			1	w.		0	0	d. clouds	
Cuttack	29.81	757.2	29.90	759.3	74.0	23.3	80	w.	5.0	2.2			10			0.25	6.4	drizzling	
Calcutta, Alipore	29.89	759.2	29.91	759.8	70.7	21.5	51	ssw.	5.0	2.2			2			0	0	d. clouds	
Dhubri	29.77	756.0	29.89	759.2	67.9	19.9	43	calm	3.6	1.6			0			0	0	blue sky	
Chittagong	29.87	758.7	29.96	761.0	70.6	21.4	45	ssw.	3.8	1.7			2			0	0	d. clouds	
Sibsagar	29.66	753.3	30.01	762.3	55.8	13.2	88	ne.	2.0	0.9			9	w.	w.	0.19	4.8	d. clouds	
Jeypore	28.36	720.4	29.82	757.5	73.1	22.8	15	wnw.	18.5	8.3			3	w.		0	0	d. clouds	
Zanzibar	29.86	758.5	29.88	759.0	85.5	29.7	60	ene.	7.6	3.4			3	ne.		0	0	d. clouds	
Bellary	28.36	720.3			90.0	32.2	29	ne.	4	1.8		5 ck	0			0	0	d. clouds	
Trichinopoly	29.65	753.1			88.5	31.4	36	ne.	0.3	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.94	760.4	30.36	771.2	53.6	12.0	63	w	1.8	0.8			8			0	0		Prof. Giovanni Clodig.
Milan	29.85	758.3	30.39	772.0	49.6	9.8	74	sw.	3.1	1.4			10	wnw.		0	0		Prof. G.V.Schiapparelli
Padua	30.24	768.2	30.36	771.1	50.2	10.1	75	sw.	1.3	0.6			10	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.42	747.2	30.36	771.1	50.0	10.0	68	s.	2.5	1.1			6	w.		0	0		Prof. F. F. Denza.
Genoa	30.14	765.5	30.34	770.5	54.3	12.4	66	n.	1.8	0.8			8	s.		0.047	1.2		Prof. G. M. Garibaldi.
Pesaro	30.33	770.4	30.38	771.7	48.2	9.0	84	n.	9.4	4.2			10			0	0		Prof. Luigi Guidi.
Florence	30.06	763.4	30.32	770.1	55.0	12.8	60	ne.			2		0			0	0		Prof. Costantino Pitt ei.
Leghorn	30.19	766.9	30.26	768.7	59.2	15.1	71	sw.	4.9	2.2			9	se.		0	0		Prof. P. Monte.
Rome	30.14	765.5	30.32	770.0	57.7	14.3	58	wnw.	0	0			4			0	0		Prof. P. Tacchini.
Lecce	30.02	762.5	30.28	769.1	55.8	13.2	64	nnw.	7.4	3.3			4			0	0		Prof. C. de Giorgi.
Cosenza	29.39	746.4	30.30	769.7	49.6	9.8	74	sw.	2.5	1.1			1	s.		0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	30.04	763.0	30.30	769.5	59.0	15.0	58	ne.	1.3	0.6			10			0	0		Prof. G. Cacciatore
Syracuse	30.27	768.9	30.32	770.0	55.9	13.3	71	e.	2.5	1.1			9	nne.		0.012	0.3		Sig. V. Giulia. o.
Sub-series.																			
Naples, Astron'l Obs'y	29.79	756.7	30.32	770.1	57.7	14.3	62	ssw.	0	0			3	w.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.03	762.7	30.06	763.6	29.9	— 1.2	79	calm			0	10ck;c	0	w.		0	0	cloudy	H. Hattori.
Awomori	30.05	763.3	30.09	764.3	19.0	— 7.2	68	sw.	3.2	1.4		1 cs	0			0	0	clear	K. Ogawa.
Hakodate	30.10	764.6	30.11	764.9	11.6	—11.3	100	nnw.	3.0	1.3		0	1 k			0	0	clear	Y. Souma.
Hamamatsu	29.85	758.2	29.95	760.7	37.9	3.3	92	ne.			4		10 n			0.543	13.8	raining	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	29.91	759.6	29.92	760.0	37.8	3.2	96	n.	3.6	1.6			10 n		ne.	0.874	22.2	light rain	Y. Okamoto.
Kagoshima	29.89	759.2	29.90	759.5	49.4	9.7	87	wnw.			2		10 s		nw.	0.524	13.3	overcast	
Kanazawa	29.88	758.8	29.98	761.6	36.8	2.7	85	e.	3.0	1.3			10 n			0.533	13.5	sleeting	S. Endo.
Kioto	29.73	755.1	29.90	759.5	33.6	0.9	98	sw.	1.8	0.8			10 n			0.816	20.7	sleeting.	M. Tojima.
Kochi	29.72	754.8	29.74	755.3	48.1	8.9	86	w.	20.9	9.3			10 n			0.794	20.2	raining.	K. Kusunose.
Miasaka	29.80	756.8	29.82	757.5	51.5	10.8	82	wnw.			2		9ck;s		w.	1.035	26.3	cloudy	K. Masusaki.
Miyako	29.99	761.8	30.10	764.6	31.3	— 0.4	83	w.	0.5	0.2			10 s			0.270	7.0	cloudy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.76	755.9	29.97	761.2	45.6	7.6	89	n.	3.9	1.7			10 s			0.400	10.2	overcast	
Nemuro	30.05	763.5	30.11	764.8	19.5	— 6.9	58	nw.	1.2	0.5		6 k	0	w.		0	0	fair	A Shibuya.
Niigata	29.96	761.0	30.00	762.0	35.6	2.0	81	s.	5.4	2.4			10 s			0.235	6.0	covered	Satoo & Tomikawa.
Nobiru	30.04	763.0	30.06	763.4	34.3	1.3	87	calm	0	0			10ks;s			0.260	6.6	covered	Yoshino & Midzushina.
Numadzu	30.00	762.0	30.03	762.8	37.3	2.9	91	ene.			4		10 n			0.752	19.1	light rain	T. Ohgi.
Osaka	29.87	758.7	29.89	759.1	34.8	1.6	84	ne.	26.0	11.6			10 n			1.175	29.9	raining	H. Omura.
Sakai	29.95	760.8	29.96	761.0	37.1	2.8	92	ne.			2		10 n		nne	0.602	15.3	raining	Yamawchi & Sakamoto.
Sapporo	30.06	763.6	30.13	765.4	18.2	— 7.7	68	calm	0	0			10 s			0.024	0.6	covered	S. Kimura.
Shimonoseki	29.79	756.6	29.93	760.3	41.7	5.4	98	ssw.			1		10 ks			0.327	8.3	cloudy	S. Sakano.
Wakayama	29.76	756.0	29.82	757.4	39.5	4.2	91	ne;ene.	11.5	5.1			10 n			0.924	23.5	raining	K. akai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.79	756.7	29.98	761.5	82.0	27.8	59	ese.	12.0	5.4		0	4 k;n		ese.	0.02	0.5	fair	The Staff.
MEXICAN.																			
Leon	24.30	617.2	30.15	765.8	45.1	7.3	80	n.	0.9	0.4		4 c	0			0	0	fair	M. Leal & M. Pina
Mazatlan	29.82	757.3	30.08	764.0	66.0	18.9	71	nnw.	5.3	2.3		2 cs	0	w.		0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.13	765.4	30.13	765.4	49.6	9.8		sse.			4					0	0		
Groningen	30.22	767.6	30.28	769.0	46.6	8.1		s.								0	0		
Helder	30.15	765.8	30.15	765.8	47.3	8.5		sse.			3					0	0		
Hellevoetsluis	30.15	765.9	30.15	765.9	51.6	10.9	73	sse.			4					0	0		
Utrecht	30.15	765.9	30.21	767.3	51.6	10.9	71	sse.			3		0			0	0	clear	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	759.0			75.2	24.0	90	w.	1.0	0.4			8			0.016	0.4		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.95	760.8	30.02	762.4	49.3	9.6	49	s.	29	13			8			0.020	0.5		
Brono	30.04	763.0	30.08	764.0	45.0	7.2	52	e.			2		9			0	0		
Christiania	30.19	766.8	30.34	770.6	42.1	5.6	88	s.	4	2			10			0.008	0.2		
Gjesvær	30.04	763.0	30.03	763.6	35.6	2.0		s.			9		10			0	0		
Lodingen	29.99	761.7	30.04	762.9	37.6	3.1	54	ne.			2		8			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.10	764.4	30.18	766.6	66.2	19.0	67	sw.	3.1	1.4			6			0.299	7.6		Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	755.9	30.10	764.5	54.0	12.2	96	ssw.	9.8	4.4			10			0.264	6.7	raining	The Staff.
Ponta Delgada, Azores	30.04	762.9	30.11	764.7	57.3	14.0	53	w.	15.4	6.9			4			0.071	1.8		
Saint Paul de Loanda																			
St. Vincent, Cape Verd Ids.	30.05	763.2	30.08	764.1	69.1	20.6	65	ne.			5		9			0	0		
San Salvador, Congo	28.07	713.0	29.89	759.1	82.9	28.3	65	sw.			2		8			0	0		
Serra da Estrella	25.25	641.3	30.15	765.9	32.0	0.0	100	se.	26.2	11.7			10			0.079	2.0	hail and fog	
RUSSIAN.																			
Akmolinski	29.24	742.8	30.44	773.2	7.7	—13.5	100	w.	7	3			10 n			0	0		Major K. Lasarew.
Archangel	30.30	769.6	30.32	770.1	32.2	0.1	94	w.	13	6			10			0	0		Capt. Sselliwerstow
Ashurada	30.35	770.8	30.25	768.4	48.6	9.2	86	wnw.	7	3			10 kn			inap.	inap.		
Astrakhan	30.58	776.7	30.50	774.7	26.6	— 3.0	87	e.	4	2			10 n			0.039	1.0	h'vy clouds	Capt. Wieganow.
Baku	30.41	772.3	30.36	771.1	38.1	3.4	92	n.	18	8		0	7k;ks			0.008	0.2		
Barnaul	30.02	762.0	30.00	777.2	— 6.9	—21.6	80	sw.	4	2			10			inap.	inap.		Meteorological Office.
Bieloserek	29.96	760.5	30.45	773.5	30.9	— 0.6	91	calm	0	0			10 s			0	0		
Dorpat	30.18	766.5	30.43	773.0	33.1	0.6	85	nne.	9	4			10 n			0	0		Observatory.
Ekaterinburg	29.27	743.5	30.30	769.7	21.4	— 5.9	67	w.	13	6			10			0	0		Meteorological Obs'y
Elissawetgrad	29.97	761.3	30.45	773.4	34.9	1.6	75	w.	9	4		c	6 ks			0	0		
Kasan	30.16	766.1	30.46	773.6	16.9	— 8.4	97	calm	0	0			10			0	0	light fog	Observatory.
Kem	30.42	772.6	30.47	773.9	30.4	— 0.9	86	w.	4	2			9 k			0	0		
Kertch	30.43	772.8	30.45	773.4	36.1	2.3	60	calm	0	0		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.65	753.2	30.33	770.3	30.7	— 0.7	85	ssw.	7	3			10ks;n			0.004	0.1		Observatory.
Kosloy	29.80	757.0	30.31	770.0	30.4	— 0.9	74	sse.	7	3			9 k			0	0		
Lgov	29.75	755.6	30.37	771.5	26.1	— 3.3	78	wsw.	7	3			3			0	0		R. I. Ssaweljew, Engin'r.
Libau	30.46	773.7	30.48	774.3	38.7	3.7	92	wsw.	4	2			10			0	0		[illegible] Quinas
Lugan	30.15	765.9	30.37	771.3	35.2	1.8	44	wnw.	13	6			9			0	0	light clouds	Meteorological Obs'y
Moscow	29.82	757.5	30.33	770.3	32.2	0.1	79	ssw.	2	1			10 s			0	0		Meteorological Obs'y
Nertschinsk	27.74	701.5	30.30	769.6	— 4.0	—20.0	75	calm	0	0			2			0	0	light clouds	
Nikolaiev	30.38	771.6	30.45	773.4	37.8	3.2	58	s.	4	2		0	0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	30.07	763.8	30.16	766.0	—17.0	—27.2	77	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	29.97	761.3	30.11	764.9	29.8	— 1.2	90	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Siang.
Petro-Alexandrovsk	30.15	765.8	30.53	775.5	25.9	— 3.4	80	nne.	1.1	0.5	.....	.....	9	.....	.....	.....	.....	.....	Walter.
Petrozavodsk	30.22	767.5	30.43	772.9	34.9	1.6	80	nnw.	7	3	.....	.....	10	.....	.....	0.004	0.1	.....	Dr. Bergmann.
Pinsk	29.86	758.4	30.38	771.7	35.2	1.8	85	n.	13	6	.....	.....	10 n	.....	.....	0.031	0.8	.....	
Poti	30.29	769.3	30.32	770.1	41.9	5.5	96	e.	4	2	.....	.....	0	.....	.....	0.472	12.0	.....	
St. Petersburg	30.39	771.9	30.41	772.5	33.8	1.0	80	nne.	11	5	.....	.....	10 n	.....	.....	0.004	0.1	.....	Central Physical Obs'y.
Samarkand	27.82	706.6	30.38	771.6	40.8	4.9	71	calm	0	0	.....	0	3 k	.....	.....	.....	.....	.....	Dresch.
Semipalatinsk	29.94	760.4	30.68	779.3	0.9	—17.3	84	calm	0	0	.....	.....	3	.....	.....	0	0	.....	Major Lasarew
Sevastopol	30.20	767.0	30.42	772.6	43.3	6.3	41	n.	7	3	.....	0	1 s	.....	.....	0	0	.....	
Staroi Bykhov	29.70	754.4	30.29	769.3	31.1	— 0.5	90	nnw.	7	3	.....	.....	10	.....	.....	.....	.....	light snow..	Carl Hagen.
Tashkend, Laboratory	28.82	731.9	30.58	776.6	38.5	3.6	88	calm	0	0	.....	.....	10 s;n	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	28.90	734.0	30.39	772.0	33.8	1.0	73	n.	4	2	.....	.....	10	.....	.....	0.280	7.1	.....	Physical Observatory.
Vernoe	27.78	705.7	30.46	773.6	25.5	— 3.6	87	ne.	4	2	.....	.....	10 n	.....	.....	.....	.....	.....	Sariono.
Viatka	29.73	755.2	30.42	772.6	16.5	— 8.6	86	sw.	2	1	.....	.....	10	.....	.....	0	0	.....	
Vladivostock	30.17	766.3	30.24	768.0	14.0	—10.0	68	nne.	34	15	.....	.....	4 s	.....	.....	0	0	.....	
Warsaw	30.05	763.2	30.49	774.5	37.4	3.0	85	nnw.	4	2	.....	.....	10 kn	.....	.....	.....	.....	.....	Astronomical Obs'y.
Yeniseisk	30.08	764.1	30.41	772.4	— 5.4	—20.8	80	w.	2	1	.....	.....	10	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.68	753.9	30.22	767.6	35.2	1.8	80	s.	17.3	7.7	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.08	764.0	30.19	766.8	58.1	14.5	90	se.	.....	.....	.....	0	4 kn	.....	.....	0	0	.....	B.J.Elin.
Bilbao, Met. Obs'y	29.87	758.8	29.93	760.3	67.1	19.5	52	se.	6.9	3.1	.....	2	3	s.	.....	0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.09	688.2	30.13	765.3	45.5	7.5	73	sw.	9.4	4.2	.....	0	8	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.91	709.0	30.17	766.4	52.5	11.4	80	sw.	8.7	3.9	.....	.....	10	.....	.....	0.055	1.4	covered	The Staff.
Murcia, Met. Obs'y	30.02	762.6	30.15	765.9	60.6	15.9	79	w.	0.4	0.2	.....	4	6	ese.	.....	0	0	foggy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.95	735.3	29.86	758.4	47.3	8.5	90	sw.	13.6	6.1	.....	.....	10	.....	.....	1.421	36.1	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.01	762.2	30.07	763.8	70.0	21.1	92	ese.	0.7	0.3	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.97	761.2	30.03	762.7	77.5	25.3	76	ese.	4.4	2.0	.....	0	8	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.15	765.8	30.25	768.3	58.8	14.9	77	w.	4.7	2.1	.....	2	5	sw.	sw.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I.	30.07	763.8	30.10	766.1	76.3	24.6	75	se.	8.5	3.8	.....	1 c	8 kn	e.	e.	0.146	3.7	raining.	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	30.41	772.3	30.45	773.3	31.3	— 0.4	100	sw.	.....	.....	2	.....	.....	.....	.....	0	0	foggy	
Umea	30.30	769.6	30.35	770.9	32.4	0.2	96	sw.	.....	.....	4	.....	10	.....	.....	0.118	3.0	.....	
Hernosand	30.18?	666.5?	30.23?	767.8?	30.9	— 0.6	100	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Stockholm	30.24	768.1	30.42	772.6	40.6	4.8	84	wsw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	30.34	770.7	30.40	772.2	37.0	2.8	93	w.	.....	.....	4	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.30	769.6	30.39	771.8	39.2	4.0	89	sw.	10.5	4.7	.....	.....	8	nnw.	.....	0.008	0.2	.....	H.H.Hildebrandesson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.37	771.3	43.3	6.3	65	ne.	11	5.0	.....	.....	8	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.34	770.7	59.2	15.1	.....	nw.	.....	.....	2	.....	8	.....	.....	0	0	¾ covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.88	759.0	55.0	12.8	74	sw.	.....	.....	3	.....	10 n	.....	sw.	0.405	10.3	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.82	757.4	29.91	759.7	40	4.4	69	s.	12	5.4	.....	.....	10 s	.....	w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.08	738.6	29.79	756.7	15.2	— 9.3	83	w.	9	4.0	.....	.....	10 s	.....	.....	0.49	12.4	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.92	632.4	30.00	762.0	19.4	— 7.0	73	sw.	2	0.9	.....	0	4 s	.....	.....	0.03	0.8	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	30.18	766.6	— 2.0	—18.9	100	sw.	25	11.2	.....	0	0	.....	.....	0.01	0.3	clear	F. Newman.
Atlanta, Georgia	28.80	731.5	30.02	762.5	58.0	14.4	90	s.	4	1.8	.....	.....	10 s	.....	sw.	0.36	9.1	cloudy	S. W. Beall.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	43.0	6.1	100	se.	10	4.5	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	B.A.Blundon.
Augusta, Georgia	29.89	759.2	30.09	764.3	65	18.3	90	w.	4	1.8	.....	.....	10 n	.....	sw.	0.34	8.6	heavy rain	W.J.Evans.
Baltimore, Maryland	29.90	759.4	29.95	760.7	50	10.0	93	e.	4	1.8	.....	.....	10n;fg	.....	.....	0.09	2.3	light rain	Geo. W. Felger.
Barnegat City, New Jersey	29.97	761.2	29.99	761.7	44.8	7.1	100	sw.	17	7.6	.....	.....	fg	.....	.....	0.02	0.5	dense fog	F.L.Johnson.
Bennett, Fort, Dakota	28.45	722.6	30.18	766.6	—20.6	—29.2	74	ne.	2	0.9	.....	5 c	5 s	ne.	ne.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.19	690.6	30.19	766.8	9.5	—12.5	94	.....	12	5.4	.....	0	0	.....	.....	blank	blank	clear	Thomas Morgan.
Bismarck, Dakota	28.08	713.2	30.06	763.5	— 9.5	—23.1	100	calm	0	0	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.99	761.7	30.02	762.5	44.5	6.9	96	se.	22	9.8	.....	.....	fg.	.....	.....	0.19	4.8	dense fog	J. T. Elker.
Boise City, Idaho	27.55	699.8	30.51	774.9	— 2.8	—19.3	85	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	James Kenealy.
Boston, Massachusetts	29.88	758.9	30.04	763.0	35.0	1.7	100	se.	7	3.1	.....	.....	10n;fg	.....	.....	0.13	3.3	light rain	O. B. Cole.
Brownsville, Texas	29.66	753.4	29.72	754.9	68.2	20.1	93	se.	18	8.0	.....	.....	10 s	.....	se.	0	0	cloudy	John McGlone.
Buffalo, New York	28.93	731.8	29.72	754.9	39	3.9	96	se.	24	10.7	.....	.....	10 n	.....	.....	0.17	4.3	light rain	Wm. Finn.
Buford, Fort, Dakota	27.88	708.1	30.10	764.5	1	—17.2	89	w.	4	1.8	.....	10 c	0	.....	.....	0.01	0.3	cloudy	A. Schneider.
Cairo, Illinois	29.53	750.0	29.95	760.7	37.8	3.2	91	n.	5	2.2	.....	.....	10 s	.....	n.	0.15	3.8	threatening	W. H. Ray.
Canby, Fort, Washington Ter	30.21	768.1	30.44	773.2	27.5	— 2.5	89	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	J.H.Young.
Cape Henry, Virginia	30.01	762.2	30.03	762.7	51.2	10.7	100	s.	8	3.6	.....	.....	10ks;fg.	.....	s.	0	0	cloudy	A. K. Alderson
Cape May, New Jersey	29.96	761.0	29.99	761.7	43.0	6.1	95	s.	16	7.2	.....	.....	fg.	.....	.....	0.10	2.5	dense fog	W.E.Smith.
Cape Mendocino, California	29.46	748.3	30.16	766.1	34	1.1	75	e.	.....	.....	4	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	70.3	21.3	100	se.	11	4.9	.....	0	7 n	.....	se.	0.02	0.5	light rain	G. W. Davis.
Charleston, S. Carolina	29.98	761.5	30.04	762.0	64.0	17.8	93	sw.	6	2.7	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.13	739.9	30.02	762.5	61.5	16.4	93	s.	13	5.8	.....	.....	10 s	.....	sw.	0.07	1.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.11	739.4	29.97	761.2	56.5	13.6	90	sw.	3	1.3	.....	3 cs	7 ks	w.	sw.	0.30	7.6	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.78	604.0	30.05	763.3	— 5.3	—20.7	71	n.	20	8.9	.....	0	0	.....	.....	0.03	0.8	clear	E. McGovern.
Chicago, Illinois	29.18	741.2	29.93	760.2	23.0	— 5.0	82	nw.	2	0.9	.....	.....	10 s	.....	.....	1.13	28.7	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.02	762.5	30.04	763.0	48.3	9.1	100	sw.	7	3.1	.....	.....	fg.	.....	.....	0.05	1.3	dense fog	C. F. Dickens
Cincinnati, Ohio	29.18	741.2	29.88	758.9	55.2	12.9	79	w.	3	1.3	.....	.....	10 s	.....	w.	0.58	14.7	cloudy	L.Dunne.
Cleveland, Ohio	29.04	737.6	29.83	757.7	30.0	2.2	100	nw.	9	4.0	.....	.....	10s;fg	.....	nw.	0.40	10.2	cloudy	W.Line.
Columbus, Ohio	28.94	735.1	29.84	757.9	53	11.7	95	s.	7	3.1	.....	.....	10 n	.....	s.	0.28	7.1	light rain	F.T. Williams
Concho, Fort, Texas	28.18	715.8	30.20	767.1	19.0	— 7.2	100	ne.	16	7.2	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	C. E. King.
Custer, Fort, Montana	26.83	681.5	30.19	766.8	5	—15.0	76	nw.	18	8.0	.....	0	9 ks	.....	nw.	0.01	0.3	cloudy	W.J.Daily.
Davenport, Iowa	29.28	743.7	29.98	761.5	16	— 8.9	70	nw.	9	4.0	.....	.....	10 s	.....	.....	0.18	4.0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.04	636.0	30.00	762.0	40.8	4.9	74	n.	8	3.6	.....	7 c	0	.....	.....	0	0	fair	J. Williams.
Dayton, Washington T'y	28.68	728.5	30.50	774.7	—14.5	—25.8	71	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	H.S.Blandford.
Deadwood, Dakota	25.19	639.8	30.11	764.8	— 2.0	—18.9	83	s.	3	1.3	.....	.....	10 n	.....	.....	inap.	inap.	light snow	G.Kingsbury.
Delaware Breakwater, Del.	30.01	762.2	30.03	762.7	42.1	5.6	100	s.	10	4.5	.....	.....	10s;fg	.....	sw.	0.11	2.8	cloudy	G.A.Martin.
Denver, Colorado	24.59	624.6	30.11	764.8	— 9.8	—23.3	100	s.	9	4.0	.....	0	0	.....	.....	0.02	0.5	clear	F. M. Neal.
Des Moines, Iowa	29.16	740.7	30.13	765.3	— 4	—20.0	65	n.	8	3.6	.....	.....	10 n	.....	n.	0.08	2.0	light snow	F. W. Conrad.
Detroit, Michigan	29.08	738.6	29.83	757.7	30.0	2.2	79	nw.	11	4.9	.....	10 cs	0	nw.	.....	0.37	9.4	cloudy	N.B.Conger.
Dodge City, Kansas	27.48	698.0	30.22	767.0	— 3	—19.4	87	nw.	11	4.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J.E.Lanouette.
Dubuque, Iowa	29.22	742.2	29.98	761.5	11.2	—11.6	65	nw.	6	2.7	.....	.....	10 s	.....	.....	0.32	8.1	cloudy	J. Harvey Smith
Duluth, Minnesota	29.18	741.2	29.99	761.7	1.0	—17.2	85	sw.	2	0.9	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	E.R.Brace.
Eastport, Maine	30.10	764.5	30.18	766.6	27.0	— 2.8	88	se.	18	8.0	.....	.....	10 s	.....	se.	0.11	2.8	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.26	692.4	30.16	766.1	2.2	—16.6	91	n	21	9.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.10	662.9	29.98	761.5	38.0	3.3	47	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.03	737.3	29.80	756.9	41.0	5.0	92	sw.	18	8.0	.....	.....	10 n	.....	.....	0.43	10.9	light rain	O. A. Shaw.
Escanaba, Michigan	29.17	740.9	29.89	759.2	3.4	—15.9	78	nw.	4	1.8	.....	3 c;ck	0	w.	.....	0.21	5.3	clear	L.M.Pindell.
Fort Smith, Arkansas	29.55	750.6	30.05	763.3	21.0	— 6.1	84	w.	4	1.8	.....	.....	10 s	.....	.....	0.78	19.8	cloudy	J. B. Campbell.
Galveston, Texas	29.77	756.1	29.81	757.2	66.0	18.9	93	e.	5	2.2	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.17	740.9	29.88	758.9	24.0	— 4.4	88	nw.	4	1.8	.....	.....	10 s	.....	.....	0.63	16.0	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.14	638.5	30.00	762.0	29.2	— 1.6	72	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	Chas. A. Read.
Hatteras North Carolina	30.08	764.0	30.09	764.3	63.7	17.6	90	s.	14	6.3	.....	0	9 s	.....	se.	0	0	cloudy	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.96	659.4	30.31	769.9	—14	—25.6	77	nw.	3	1.3	.....	0	0	.....	.....	0.05	1.3	clear	S.W.Morrison.
Huron, Dakota	28.63	727.2	30.15	765.8	—12.2	—24.6	53	s.	6	2.7	.....	5 k	0	w.	.....	inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	29.03	737.3	29.88	758.9	38.5	3.6	78	nw.	5	2.2	.....	.....	10 s	.....	nw.	0.65	16.5	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.79	756.7	29.82	757.4	51.0	10.6	100	n.	24	10.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	I. A. Reed.
Jacksonville Florida	30.05	763.3	30.10	764.5	58.4	20.2	92	s.	12	5.4	.....	2 cs	7 s	.....	s.	inap.	inap.	cloudy	J. W. Smith.
Keokuk, Iowa	29.30	744.2	30.00	762.0	12.0	—11.1	73	nw.	3	1.3	.....	.....	10 s	.....	nw.	0.19	4.8	cloudy	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	73.5	23.1	90	s.	7	3.1	.....	0	1 ks	.....	.....	0.60	15.2	clear	A. W. Browne.
Kittyhawk, North Carolina	30.07	763.8	30.09	764.3	59.8	15.4	97	sw.	12	5.4	.....	.....	10 n	.....	sw.	0.05	1.3	light rain	Wesley Blake.
Knoxville, Tennessee	28.90	734.0	29.98	761.5	55.5	13.1	95	w.	6	2.7	.....	7 cs	2 s	.....	w.	0.23	5.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.16	740.7	30.00	762.0	3	—16.1	72	w	12	5.4	.....	.....	10 n	.....	.....	0.12	3.0	light snow	S. C. Emery.
Leavenworth, Kansas	29.23	742.4	30.18	766.6	0	—17.8	54	nw.	.....	.....	4	10 cs	0	w.	.....	0.05	1.3	cloudy	T. S. Outram.
Lewiston, Idaho	29.76	755.9	30.63	778.0	—15.2	—26.2	51	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.60	751.8	29.93	760.2	37.0	2.8	89	nw.	4	1.8	.....	.....	10 s	.....	.....	1.31	33.3	cloudy	W.U.Simons.
Los Angeles, California	29.76	755.9	30.16	766.1	40.8	4.9	65	ne.	6	2.7	.....	5 c	0	nw.	.....	0	0	fair	T. S. Collins
Louisville, Kentucky	29.29	744.0	29.88	758.9	47.0	8.3	86	w.	9	4.0	.....	.....	10 s	.....	.....	0.45	11.4	cloudy	L. M Dey.
Lynchburg, Virginia	29.22	742.2	29.94	760.5	62.0	16.7	93	s.	10	4.5	.....	.....	10 n	.....	s.	0.06	1.5	light rain	Jno. Healy.
Mackinaw City, Michigan	29.10	739.1	29.80	756.9	10.0	—12.2	80	nw.	14	6.3	.....	0	3 s	.....	nw.	0.78	19.8	clear	D. B. Notson.
Macon, Fort, North Carolina	30.09	764.3	30.10	764.5	60.0	15.6	100	sw.	24	10.7	.....	.....	10 s	.....	sw.	0.13	3.3	cloudy	William Daly.
Maginnis, Fort, Montana	25.42	645.7	30.17	766.3	5.8	—14.6	57	nw.	20	8.9	.....	5 c	0	nw.	.....	0.06	1.5	fair	F. Burge.
Marquette, Michigan	29.12	739.6	29.90	759.4	0.0	—17.8	68	nw.	8	3.0	.....	0	0	.....	.....	0.27	6.9	clear	J. Gilligan.
Memphis, Tennessee	29.53	750.0	29.88	758.9	45.0	7.2	100	w.	5	2.2	.....	.....	10 s	.....	.....	0.50	12.7	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.09	738.9	29.89	759.2	17.8	— 7.9	73	nw.	6	2.7	.....	.....	10 s	.....	.....	0.43	10.9	cloudy	S.W.Rhode.
Mobile, Alabama	29.91	759.7	29.95	760.7	59	15.0	93	calm	0	0	.....	3 k	2 s	sw.	sw.	0.89	22.6	fair	H. U. Jones.
Montgomery, Alabama	29.73	755.1	29.97	761.2	60	15.6	93	calm	0	0	.....	0	9s;fg	.....	sw.	0.60	15.2	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	28 99	736.3	30.09	764.3	—20.1	—28.9	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.50	596.9	30.12	765.0	30.0	— 1.1	100	sw.	80	35.8	.....	.....	fg.	.....	sw.	0.08	2.0	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.27	743.4	29.88	758.9	57.3	14.1	91	s.	7	3.1	.....	.....	10 ks	.....	sw.	0.69	17.5	cloudy	L. N. Jesunofsky
New Haven, Connecticut	29.89	759.2	30.01	762.2	30.8	2.7	100	ne.	5	2.2	.....	.....	10n;fg	.....	.....	0.14	3.6	light rain	J. H. Sherman.
New London, Connecticut	29.08	761.5	30.03	762.7	41.5	5.3	100	e.	4	1.8	.....	.....	10n;fg	.....	e.	0.14	3.6	light rain	J. G. Lynch.
New Orleans, Louisiana	29.86	758.4	29.92	760.0	64.5	18.1	92	se.	6	2.7	.....	.....	fg.	.....	.....	0.69	17.5	dense fog	M. Herman.
New York, New York	29.80	756.9	30.00	762.0	42.8	6.0	100	s.	3	1.3	.....	.....	fg.	.....	.....	0.09	2.3	dense fog	H. J. Peurod.
Norfolk, Virginia	30.03	762.7	30.06	763.5	61.0	16.1	96	s.	12	5.4	.....	.....	10 n	.....	.....	inap.	inap.	light rain	Wm. Davis.
North Platte, Nebraska	27.04	686.8	30.14	765.5	—12.6	—24.8	42	nw.	5	2.2	.....	0	0	.....	.....	0.02	0.5	clear	J.J.Mc Lean.
Olympia, Washington T'y	30.36	771.1	30.40	772.1	8.5	—13.1	76	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Dascomb
Omaha, Nebraska	28.96	735.6	30.22	767.6	— 7.2	—21.8	74	nw.	4	1.8	.....	5 c	0	nw.	.....	0.25	6.3	fair	A. Pollak
Oswego, New York	29 31	744.5	29.66	753.4	47.5	8.6	75	s.	18	8.0	.....	.....	10 s	.....	sw.	0.04	1.0	cloudy	J. G. Linsley.
Palestine, Texas	29.43	747.5	30.01	762.2	29.1	— 1.4	84	nw.	14	6.3	.....	.....	10 s	.....	.....	0.71	18.0	cloudy	P. T. Jenkins.
Pensacola, Florida	29.93	760.2	29.96	761.0	62.1	16.7	92	e.	11	4.9	.....	0	9 s	.....	s.	0.69	17.5	cloudy	M. McGauran.
Philadelphia, Pa	29.85	758.2	29.96	761.0	52.3	11.3	100	s.	4	1.8	.....	.....	fg.	.....	.....	0.10	2.5	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.06	433.3	29.78	756.4	—30.0	—34.4	100	w.	22	9.8	.....	0	0	.....	.....	0.03	0.8	clear	H. Hall.
Pittsburg, Pennsylvania	28.87	733.3	29.73	755.1	58.0	14.4	86	w.	11	4.9	.....	.....	10 n	.....	w.	0.11	2.8	light rain	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	— 5.2	—20.7	91	sw.	.....	.....	1	.....	10 s	.....	.....	inap.	inap.	cloudy	G.A.Carden.
Port Huron, Michigan	29.07	738.4	29.80	756.9	34.3	1.3	88	w.	6	2.7	.....	.....	10 s	.....	w.	0.96	24.4	cloudy	M. H. Perry
Portland, Maine	30.00	762.0	30.06	763.5	26.5	— 3.1	86	nw.	4	1.8	.....	.....	fg.	.....	.....	0.04	1.0	dense fog	W. W. Eichelberger.
Portland, Oregon	30.31	769.9	30.38	771.6	15.0	— 9.4	83	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	M. L. Hearn.
Prescott, Arizona	24.72	627.9	30.08	764.0	10.5	—11.9	66	n.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	N. D. Lane.
Provincetown, Mass	30.03	762.7	30.06	763.5	39.0	3.9	100	se.	14	6.3	.....	.....	fg.	.....	.....	0.15	3.8	dense fog	C. N. Kitchel.
Red Bluff, California	29.94	760.5	30.31	769.9	27	— 2.8	77	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.56	750.8	29.81	757.2	65.4	18.6	92	se.	8	3.6	.....	.....	fg.	.....	se.	0	0	dense fog	L. G. Schultz.
Rochester, N. Y	29.01	736.8	29.72	754.9	48	8.9	86	sw.	19	8.5	.....	.....	10n;fg	.....	sw.	0.03	0.8	light rain	E. W. McGann.
Roseburg, Oregon	29.76	755.9	30.33	770.4	6	—14.4	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	30.20	767.1	30.27	768.8	28.0	— 2.2	77	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.31	744.5	29.97	761.2	25.3	— 3.7	88	nw.	12	5.4	.....	.....	10 n	.....	nw	0.97	24.6	light rain	J. H. Weber.
St. Michael, Fort, Alaska	30.54	775.7	30.58	776.7	4	—15.6	85	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	Fred. H. Clarke
St. Paul, Minnesota	29.08	738.6	30.00	762.0	— 4.0	—20.0	100	calm	0	0	.....	9 cs	0	nw.	.....	0.15	3.8	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.01	736.8	29.98	761.5	—17	—27.2	77	s.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	C. B. Dilley
Salt Lake City, Utah	25.85	656.6	30.41	772.4	— 7.5	—21.9	61	e.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	J. Craig.
San Diego, California	30.07	763.8	30.14	765.5	42.0	5.6	68	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.11	739.4	29.83	757.7	37	2.8	89	w.	15	6.7	.....	.....	10 ks	.....	w	0.27	6.9	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.96	761.0	29.99	761.7	47.2	8.4	100	s.	12	5.4	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	V.P.Chappel.
Sanford, Florida	30.03	762.7	30.08	764.0	70.0	21.1	92	s.	4	1.8	.....	0	8 ks	.....	se.	inap.	inap.	cloudy	J. B. Marbury
San Francisco, California	30.18	766.6	30.25	768.3	37.4	3.0	51	se.	8	3.6	.....	7c;cs	0	w.	.....	0	0	fair	N. Gorom.
Savannah, Georgia	29.97	761.2	30.06	763.5	65	18.3	92	s.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	R. M. Geddings.
Shaw, Fort, Montana	26.33	668.8	30.18	766.6	7	—13.9	80	sw.	20	8.9	.....	0	0	.....	.....	0.08	2.0	clear	A.L.Mathews.
Shreveport, Louisiana	29.70	754.4	29.88	758.9	39.4	4.1	94	nw.	12	5.4	.....	.....	10 n	.....	nw.	1.02	25.9	light rain	E.N.Meekins.
Sitka, Alaska	30.32	770.1	30.39	771.9	30.5	— 0.8	68	ne.	7	3.1	.....	0	7 k	.....	ne.	0	0	fair	F. W. Fickett.
Smithville North Carolina	30.04	763.0	30.08	764.0	60.1	15.6	93	s.	18	8.0	.....	1 c	4 s	.....	sw.	0.29	7.4	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.38	720.8	30.51	774.9	—13.0	—25.0	63	calm	0	0	.....	0	0	.....	.....	0	0	clear	D.Moore.
Springfield, Illinois	29.24	742.7	29.97	761.2	29.9	— 1.2	85	nw.	9	4.0	.....	.....	10 s	.....	nw.	0.83	21.1	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.89	683.0	30.02	762.5	26.0	— 3.3	100	calm	0	0	.....	.....	10 n	.....	.....	inap.	inap.	light rain	J.W.Byram.
Tatoosh Id., Wash. Ter	30.24	768.1	.....	.....	29.3	— 1.5	86	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.32	693.9	30.15	765.8	31.2	— 0.4	87	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.08	738.6	29.82	757.4	39	3.9	82	nw.	9	4.0	.....	.....	10 s	.....	nw.	0.37	9.4	cloudy	A. Buell.
Unalaska, Alaska	29.84	757.9	29.86	758.4	39	3.9	89	e.	32	14.3	.....	.....	10 n	.....	e.	5.00	127.0	light rain	Samuel Applegate
Vicksburg, Mississippi	29.62	752.3	29.89	759.2	58.5	14.7	93	se.	4	1.8	.....	0	8 s	.....	s.	1.26	32.0	cloudy	C.Dill.
Washington, D. C.	29.83	757.7	29.95	760.7	57.0	13.9	96	s.	9	4.0	.....	.....	10n;fg	.....	s.	0.02	0.5	light rain	T. B. Harrison.
West Las Animas, Colorado	26.03	661.2	30.15	765.8	— 7	—21.7	100	w.	12	5.4	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	30.04	763.0	30.10	764.5	63.0	17.2	92	sw.	9	4.0	.....	6c;cs	3 s	s.	.....	0.36	9.1	cloudy	L.H.Albrecht.
Yankton, Dakota	28.80	731.5	30.22	767.6	— 5.3	—20.7	62	calm	0	0	.....	0	0	.....	.....	0.08	2.0	clear	E. H. Thompson.
Yuma, Arizona	30.09	764.3	30.24	768.1	38.8	3 8	30	ne.	10	4.5	.....	1 c	hz.	w.	.....	0	0	clear	W.S Delano.
Sub-series.																			
Behring Island, Kamchatka.	29.18	741.2	29.20	741.7	34.1	1.2	88	e.	17	7.6	.....	.....	10 n	.....	.....	0.03	0.8	sleeting	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	.....	nw.	.....	.....	1	1 c	2 k	sw.	ne.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	22.03	559.4	.....	.....	53.6	12.0	86	nw.	2	1	.....	4 c	0	ne.	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.92	760.0	30.09	764.3	—20	—32.2	100	calm	0	0	.....	5 c	0	s.	.....	0	0	fair	L.M.Turner.
Kingston, Jamaica, W. I.	.....	.....	30.09	764.3	69.2	20.7	83	n.	1	0.4	.....	0	9 s	.....	e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.05	763.3	30.05	763 3	77	25.0	91	e.	.....	.....	3	.....	8 ks	e.	e.	0.130	3.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.42	747.3	29.98	761.5	80	26.7	89	calm	.....	.....	0	0	9 ks	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	90	ne.	.....	.....	1	.....	.....	.....	.....	0	0	fair	Earl Flint.
York Factory, B. A.	30.30	769.6	30.37	771.4	—31.0	—35.0	.....	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.94	760.5	29.95	760.8	76.3	24.6	88	n.	10.5	4.7	.....	0	4 k	.....	n.	0	0	fair	P.Fasiani.
Naôs, Bay of Panama	29.92	760.0	29.99	761.7	73.4	23.0	88	nw.	.....	.....	4	0	1 k	.....	n.	0	0	clear	Antonio Fabre.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic																		
S. S. Alvo, Jacmel, Hayti, W. I*	30.10	764.5	70	21.1		sse.			4		4		s.	2 h'r	2 h'r	sm'h	s.	fine.
S. S. Alleghany, Chesapeake Bay †	29.96	761.0	56	13.3		calm			0		10			12 h'r	12 h'r			foggy.
S. S. Ailsa, N. 11° 51', W. 75° 15'			79	26.1	93	ene.			5		8		e.	0	0	mod.	e.	cloudy.
S. S. America, N. 48° 30', W. 21° —			43	6.1	92	wsw.			6		5		sw.	0	0	r'gh	sw.	fair.
S. S. Alps, Kingston, Jamaica, W. I*†	30.12	765.0	76	24.4		calm			0		3		ese.	rain	rain	short		
Schr. Annie R. Lewis, N. 23° 17', W. 84° 12' †	30.06	763.5	78	25.6		se.			3		6		se.	0	0	mod.	ene.	fair.
S. S. British Crown, N. 47° 27', W. 21° 28'†	29.34	745.2	41	5.0		w.			5		6		w.	0	0	high	w.	
S. S. Caracas, Curacao, W. I*†	30.10	764.5	78.5	25.8	88	e.			4		3		e.	0	0	light	ne.	hazy.
S. S. Canada, (Br) N. 49° 19', W. 9 40' †	29.60	751.8	51	10.6	86	ssw.			5		8		ssw.	6 h'r	6 h'r	long	sw.	showery.
S. S. Canada, (Fr) N. 40° 35', W. 70° 49'	30.04	762.9	50.0	10.0		sw.			4					0	0	sm'h	sw.	misty.
S. S. Chalmette, Sandy Hook, N. J			42	5.6		se.			3					0	0	mod	sse.	foggy.
S. S. Devonia, N. 43° 30', W. 55° 10'†	30.47	773.9	26	—3.3		nnw.			2		8		nw.	8½ h'r	8½ h'r	sll't	nnw.	cloudy.
S. E. J. Spicer, N. 36° 14', W. 42° 30	29.92	760.0	59	15.0	94	w.			9		10		wnw.	9 h'r	9 h'r	high		raining.
S. S. Frisia, N. 49° 20', W. 28° 40'	29.29	744.0	34.2	1.2		w.			6		6		w.			h'vy	wnw.	snowy.
S. S. Grecian, N. 55° 10', W. 13° 46'	29.31	745.2	42	5.6	66	wsw.			7		3		w.	1 h'r	1 h'r	high	w.	clear.
Bk. Havana, N. 32° 30', W. 78° 04'*†	30.15	765.8	77?	25.0?	91	ssw.			6		1		s.	12 h'r	12 h'r	high	s.	squally.
S. S. Iowa, N. 43° 08', W. 54° 37'			28	— 2.2		nnw.			4		7		nnw.	4 h'r	4 h'r	mod.	nnw.	fair.
Bg. L. & W. Armstrong, N. 36° 42', W. 74° 08'*†	30.20?	767.1?				s			3		6		s.	3 h'r	3 h'r	sm'h	se.	fine.
S. S. Marengo, N. 46° 50', W. 39° 55'*†	29.26	743.2	27	— 2.8		nw.			8		10		nw.	6 h'r	6 h'r	h'vy	nw.	cloudy.
S. S. Orinoco, Hamilton, Bermuda †	30.36	771.1	64	17.8		se.			1		8		calm	0	0			cloudy.
S. S. Ohio, (Am.) Liverpool, Eng*†	29.78	756.4	50	10.0	93	s.			3		10		ssw.	0	0			cloudy.
S. S. Pennsylvania, Mersey river, Eng †	29.74	755.4	48	8.9	85	wsw.			5		7		sw.	1 h'r	1 h'r	light		rainy.
S. S. Rhynland, N. 49° 45' W. 17° 58'	29.34	745.2	48	8.9	100	se.			6		10		w.	10 h'r	10 h'r	con.	var.	squally.
S. S. Sardinian, N. 51° 48', W. 26° 15'	29.11	739.4	33	0.6		nw.			4		10		nw.	4 h'r	4 h'r	h'vy	wnw.	overcast.
S. S. Switzerland, N. 45° 40' W. 44° 53' *†	29.95	760.7				nw.			6		10		nw.	24 h'r	24 h'r	h'vy	nw.	snowing.
S. S. Salier, N. 50° 04', W. 4° 33'						s.			6		10		ssw.	4 h'r	4 h'r	cross	wsw.	overcast.
S. S. Scythia, N. 40° 44', W. 67° 51'	30.20	767.1	56?	13.3?		e.			1		10			3 h'r	3 h'r	sm'h		hazy.
S. Salisbury, N. 36° 03', W. 74° 00'	30.07	763.7	70.3?	21.3?	83	ssw.			6		10kn			0	0	long		cloudy.
S. S. Valencia, N. 17° 33', W. 68° 04'†	30.16	766.1	79.5	26.4	82	ese.			6		6		ese.	4 h'r	4 h'r	h'vy	e.	fair.
Schr. Adda Doane, Kingston, Jamaica, W. I †	30.07	763.8				calm			0		2		ne.	0	0			clear.
Bg. Alcira, N. 10° 58', W. 71° 39' *	30.04	763.0	79	26.1		nne.			2		2		ene.	0	0			hazy.
S. S. Britannic, N. 42° 12' W. 50° 06' *†	30.33	770.4	30	— 1.1		nne.			6		6		ne.	0	0	high	ne.	d. clouds.
S. S. British Prince, N. 44° 25', W. 43° 14'†	29.88	758.9	27	— 2.8		nw.			7		8		nw.	0	0	h'vy	nw.	snow squalls
Bk. Chas. Stewart, Gibraltar, Mediterranean*†	30.29	769.4				s.			2		2		s.	0	0	sm'h	w.	fair.
Bk. Cato, N. 39° 50', W. 35° 30' †	29.71	754.6				sw.			10		10		sw.	0	0	hv'y	wsw.	cloudy.
S. S. Donau, N. 42° 39', W. 53° 36'	30.45	773.4	26.6	— 3.0		n.			4		5		ne.	0	0	long	n.	fair.
S. S. D. J. Foley, N. 18° 32', W. 75° 35'*†	30.06	763.5	79	26.1	82	ese.			4		2			0	0	mod.	se.	hazy.
S. S. Gellert, N. 52° 20', E. 3° 20'	30.10	764.5	58	14.4	94	s.			4		1		sw.	0	0	r'gh	s.	clear.
S. S. New York, N. 25° 50' W. 79° 45' *†	30.12	765.0	75	23.9		se.			5		5		se.	0	0	mod.	se.	fair.
S. S. Pavonia, N. 46° 46', W. 34° 42'	29.30	744.2	38	3.3	90	nw.			6		8		nw.	12 h'r	12 h'r	h'vy	nw.	snow squalls
S. Parker M. Whitmore, N. 48° 00', W. 15° 16'*†	29.45	748.0	48	8.9		sw.			4		5		w.	2 h'r	2 h'r	high	wsw.	squally.
S. S. Sirius, N. 8° 11', W. 48° 53'	29.98	761.5				ne.			5		5		ne.;w.	0	0	long	ne.	clear.
Bk. Saga, Hampton Roads, Va†	30.07	763.8	57	13.9		s.			1–2					¼ hr	¾ hr			light rain.
S. S. Vaderland, N. 47° 15', W. 25° 05'			39	3.9		w.			5		6		nw.	16 h'r	16 h'r	high		
S. S. Wyoming, New York, N.Y	30.02	762.5	36	2.2		var.			1		fg			0	0			dense fog.
S. S. Wieland, N. 47° 30', W. 40° 10'			32	0.0		nnw.			6		10		nnw.	snow	snow	r'gh	nnw.	cloudy.
S. S. Westphalia, Hamburg, Germany			48	8.9	100	w.			4		4			0	0			fair.
S. S. Reliance, St. Thomas, W. I			79	26.1		e.			6							r'gh	w.	squally.
S. S. Nurnberg, N. 48°49' W. 14° 31'	29.41	747.0	47.3	8.5		ssw.			6		10		sw.	4 h'r	4 h'r	long	wsw.	overcast.
U. S. Navy Yard, Portsmouth, N. H.*	30.03	762.7	31	— 0.6	89	ene.	4	1.8			10			0.1	3.			misty.
U. S. S. Alliance, San Juan, Porto Rico, W. I	30.17	766.3	73	22.8	90	ene.			2		8		e.	h'vy	h'vy	sm'h		cloudy.
U. S. S. Kearsarge, Naples, Italy	30.33	770.4	58	14.4	76	wsw.			1		5							fair.
U. S. S. Lancaster, Naples, Italy	30.32	770.1	60	15.6	88	wsw.			1		2			0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.10	764.5	36	2.2	100	s.			3		10					sm'h		drizzling.
U. S. S. Quinnebaug, Leghorn, Italy	30.27	768.8	60	15.6	71	calm			0		5					sm'h		fair.
U. S. S. Swatara, Kingston, Jamaica, W. I	30.09	764.3	73	22.8	85	w.			1		2		w.	0	0	sm'h		clear.
U. S. S. Tennessee, New Orleans, La	29.93	760.3	63	17.2	100	se.	1	0.4			10		se.	0.39	9.9			drizzling.
U. S. S. Trenton, Naples, Italy	30.33	770.4	62	16.7	77	sw.			1		8		sw.					fair.
U. S. S. Vandalia, Curacoa, W. I	30.02	762.5	77	25.0	86	e.			4		5		e.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.35	770.9	66	18.9	74	ene.			1		9	ene.						d. clouds.
H. M. S. Boadicea, Sierra Leone, Senegambia	29.97	761.2	80	26.7	91	calm			0		4							d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.34	770.6	64	17.8	78	se.			1		7	sse						d. clouds.
H. M. S. Himalaya, N. 31° 34', W. 31° 30'	30.13	765.3	65	18.3	49	wnw.			3		2	sse.				3	nnw.	d. clouds.
H. M. S. Monarch, Port Said, Egypt	29.99	761.7	61	16.1	71	nw.			3–5		8							showery.
H. M. S. Minotaur, Cagliari, Sardinia	30.24	768.1	59	15.0	88	se.			3		8							dense mist.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.88	759.0	86.0	30.0	92	ene.			3		5		ene.	0	0	2	ne.	d. clouds.
S. S. Prussian, N. 45° 56', W. 35° 21'			35	1.7		nw.			6		6		nw.	0	0		nw.	squally.
S. S. Scandinavian, Glasgow, Scotland	29.56	750.8	46	7.8		sse.			6		9		sse.	shr's	shr's			showery.
S. S. Dorian, N. 48° 43', W. 32° 43'			33	0.6		nw.			4		10		nw.	h'vy	h'vy	r'gh	nw.	overcast.
S. S. Carroll, N. 43° 18', W. 66° 16'			34	1.1		sse.			5		10		sse.	rain	rain	short	sse	light rain.
S. S. Llandaff City, N. 48° 14', W. 29° 52'			44	6.7		w.			7		8		n.	hail	hail	high	nw.	fair.
S. S. Wisconsin, N. 50° 16', W. 22° 00'	29.30	744.2	39	3.9		sse.			6		7		s.	8 h'r	8 h'r	con.	var.	snow squalls
S. S. Rhaetia, N. 43° 08', W. 56° 13'	30.43	772.9	24	— 4.4		nne.			3–4		8		ese.	2 h'r	2 h'r	sm'h	nne.	cloudy.
S. S. Hevelius, N. 7° 55', W. 26° 26'			75	23.9		nne.			6		5?		sse.	0	0			clear.?
S. S. Rosse, N. 18° 40', W. 23° 53'	30.09	764.3	71	21.7	66	ne.			4		4		ne.	0	0	long	nne.	fine.
S. S. Archimede, (It) Palermo, Sicily			58	14.4		nne.			2		3		nne.	0	0			clear.
S. S. Picqua, N. 40° 52', W. 50° 00' *†	30.30	769.6	35	1.7	100	wsw.			6				n.	4 h'r	4 h'r	high	n.	cloudy.
S. S. Ontario, N. 43° 24', W. 52° 06'	30.40	772.1	25	— 3.9		n.			5		8		n.	5 h'r	5 h'r	mod	nnw.	cloudy.
S. S. Denmark, N. 44° 22', W. 39° 48'†	29.65	753.1	34	1.1	90	wnw.			8		7		wnw.	shr's	shr's	hv'y	nw.	snow squalls
S. S. Erin, N. 45° 20', W. 44° 11'	29.88	758.9	22	— 5.6		wnw.			6		5		wnw.	9 h'r	9 h'r	high	wnw.	snow squalls
S. S. City of Augusta, New York, N. Y						nne.			3		10		ene.	0	0			foggy.
S. S. Muriel, N. 38° 21', W. 72° 54'	30.14	765.5	58	14.4		sw.			2		10			0	0	mod.	se.	foggy.
S. S. Waesland, Antwerp, Belgium	30.09	764.3	59	10.0		se.			5		0			0	0			clear.
S. S. Westernland, Jersey City, N. J	29.71	754.6	56	13.3	94	calm			0		10			3 h'r	3 h'r			foggy.
S. S. W. A. Scholten, Rotterdam, Netherlands	30.17	766.3	55.6	13.1	75	w.			2		7		wsw.	0	0			fair.
S. S. Zaandam, N. 44° 03', W. 39° 56'			49.1?	9.5?	87	nw.			8		6		nw.	12 h'r	12 h'r	h'vy	var.	snow squalls
S. S. State of Nevada, N. 45° 08' W. 43° 49*†	29.80?	756.9?	17	— 8.3		wnw.			6		10		wnw.	snow	snow	high	wnw.	cloudy.
S. S. Saxon, Boston, Mass *†	29.99	761.7	40	4.4		var.			1		10			rain	rain			rain & fog.
S. S. Celtic, Liverpool, Eng*†	29.77	756.1	52	11.1		s.			5		10		sse.	14 h'r	14 h'r			raining.
S. S. Lepanto, N. 36° 45', E. 11° 42'	30.23	767.8	65?	18.3?		s.			3		3			0	0	sm'h	e.	fine.
S. S. Romano, off Start Pt, Eng			51	10.0		ese.			3		10			0	0	mod	ssw.	cloudy
S. S. Salerno, New York, N. Y †	30.00	762.0	43	6.1		s.			2		10		ne.	0	0			foggy.
S. S. Antonio Lopez, Cadiz, Spain	30.19	766.8	57.5	14.2	79	sw.			2		4			1 h'r	1 h'r			fair.
Bgt. Achsah, N. 31° 36', W. 59° 30'			68	20.0		n.			1		2		n.	c	0	long	se.	clear.
S. Armenia, N. 50° 16', W. 11° 30' *	29.51	749.5	53	11.7	73	sw.			6		7		sw.	2 h'r	2 h'r	r'gh	wnw	squally.
Bk. Adelaide, N. 11° 35', W. 32° 29'			78	25.6		ene.			5		6		ene.	0	0	mod	e.	fair.
Bk. Benjamin Dickerman, N. 32° 55', W. 69° 15'*†	30.38	771.6	69	20.6		sse.			5		3		s.	0	0	r'gh	se.	smoky.
S. Cornelius, N. 39° 27', W. 71° 12' *†	30.07	763.8	49.6	9.8		s.			5		10			0	0	long	ese.	foggy.
S. Dora, N. 54° 10', W. 24° 11' †	29.06	738.1	34.7	1.5		wsw.			4		5?		w.	6 h'r	6 h'r	h'vy	w.	cloudy.?
S. David Stewart, Barbadoes, W. I			75	23.9		e.			6		2		e.	sh'rs	sh'rs			
Schr. Edith R. Seward, N. 32° 07', W. 62° 30'†	30.39	771.9	70	21.1		calm			0		2		calm	0	0	mod	ese.	clear.
Bk. Fred W. Carlon, Progreso Roads, C. A	29.96	701.0	78	25.6		se.			5		0			0	0	sm'h	ene.	clear
Bk. Gloire, N. 21° 30', W. 58° 43' *	30.18	766.6	80	26.7		ene.			5		5		ene.	0	0	short	ese.	fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. George Davis, N. 37° 29′, W. 62° 49′ *†	30.28	769.1				se.			4				sse.	0	0		n.	fair.
Bk. Galeon, Grimsby Road, Eng	29.87	758.7	46	7.8		s.			4		5		sw.	0	0			misty.
S. Hedwig, N. 42° 19′, E. 16° 44′	30.32	770.0	56.3	13.5	84	nw.			3		8		var.	0	0	1	nw.	overcast.
Bk. Hattie G. McFarland, N. 29° 07′, W. 87° 17′†	29.97	761.2	70	21.1		se.			2		10		w.	0	0	r'gh	se.	threatening.
S. Henry, N. 36° 34′, E. 14° 54 *	30.32	770.1	58.1	14.5		e.			3	4 ck	0					1–2	ene.	fair.
Schr. John L. Thomas, South Hobbies Cays, C. A †	30.00	762.0	76	24.4	86	nne.			3		2		ne.	¼ h'r	¼ h'r			clear.
Bg. John Welsh, jr., N. 26° 49′, W. 84° 09′†	30.05	763.3				se.			4				sse.			sm'h	se.	fair.
Bg. Lillan, N. 7° 10′, W. 57° 56′†	30.03	762.7	81	27.2		ne.			4		8		w;ne.	½ h'r	½ h'r	r'gh	ne.;e.	cloudy.
S. S. Laurel, off Alligator Reef Light, Fla †	30.08	764.0	76	24.4		se.			4–5		9		se.	3 h'r	3 h'r			threatening.
Bg L. F. Munson, N. 29° 50′, W. 56° 58′			58?	14.4?		n			3		2		n.	0	0	long	e.	fair.
S. S. Madrid, Shields, Eng			51	10.6	86	wnw.			2		7		wnw.	6 h'r	6 h'r			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga			71?	21.7?		sw.			5				w.	0	0	sm'h	ne.	clear.
Schr. Norena, Fajardo, Porto Rico, W. I†	30.12	765.0				e.			4		7		e.	2 h'r	2 h'r			showery.
Bk. Orpheus, N. 50° 04′, W. 11° 07′*	29.46	748.3	52	11.1		ssw.			6		6 k		sw.			long	ssw.	cloudy
Bg. Rising Sun, N. 7° 30′, W. 53° 30′†	30.05	763.3	80	26.7		ne.			5		7		ne	rain	rain	long	ne.	squally.
S. S. Radnorshire, N. 36° 58′, E. 0° 11′ *†	30.17	766.3				wnw.			1		10		wnw.	0	0	light	n.	foggy.
Bgt. Sunlight, N. 37° 10′, W. 70° 47′						ssw.			5		9		sw.	2 h'r	2 h'r	mod.	sw.	cloudy.
S. St. David, N. 3° 34′, W. 30° 04′			82	27.8	83	ne.			4		6		ne.	2 h'r	2 h'r	h'vy	ne.	hazy.
S. Stephen D. Horton, Antwerp, Belgium †	30.17	766.3				sse.			3		0			0	0			clear.
Bk. Silica, N. 48° 35′, W. 12° 00 *	29.47	748.5				wsw.			6		8		wsw.	sh'rs	sh'rs	h'vy		cloudy.
S. Vincenzo Accame, N. 38° 45′, W. 70° 01′ †	30.19	766.8	57.2	14.0		s.			6		10		ssw.	3 h'r	3 h'r	mod.	s.	
S. S. City of Alexandria, N. 38° 45′, W. 74° 12′*†	30.01	762.2	49	9.4		s.			2							small	se.	rain & fog.
S. S. Maasdam, N. 46° 00′, W. 36° 20′*	29.32	744.7	33.8	1		wnw.			9							high		stormy.
S. S. Strathleven, N. 47° 50′, W. 26° 00′*	29.32	744.7	39.5	4.2	95	w.			5		8		w.			5	var.	snowing.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.77	756.1	71	21.7	90	s.			3		10		s.					cloudy.
H. M. S. Amethyst, Montevideo, Uruguay	29.60	751.8	71.5	21.9	87	sw.			2		9	s.				1	sw.	threatening.
H. M. S. Opal, Simons Bay, Cape Colony	29.79	756.7	70	21.1	61	ese.			2		0							blue sky.
H. P. M. S. Rainha de Portugal, Cabinda, Guinea	29.85	758.1	82.4	28.0	84	wnw.			1		6			4 h'r	4 h'r	1		squally.
H. P. M. S. Benge, S. 4° 33′, E. 4° 49′	29.94	760.4	86.0	30.0	73	sse.			2		5		w.	15 h'r	15 h'r	1		blue sky.
Bk. Celestina, S. 10° 52′, W. 33° —′*†	30.03	762.7				ese.			4		5		sse.	0	0	light	ese.	fair.
S. S. George S. Homer, S. 36° 14′, W. 32° 40′*†	30.15	765.8				ne.			2		1		ne.	0	0	sm'h	var.	fine.
Bk Godeffroy, S. 7° 03′, W. 31° 51′	29.97	761.2	82.0	27.8	88	e.			5		4 k		e.	0	0	mod.	ne,e.	fair.
S. Grecian, S. 44° 37′, W. 40° 38′†	29.71	754.6	52	11.1	87	nw.			4		10			0	0	long	sw.	hazy.
S. Henry Failing S. 37° 20′, W. 28° 29′*†	30.12	765.0	67	19.4	84	nne.			4		3		nnw.	0	0	sm'h	sw.	clear.
Bkt. Levanter, Montevideo, Uruguay*	29.74	755.4	73	22.8		w.			3		10		sw.	0	0	mod.	sw.	cloudy.
Bk. Winifred, S. 17° 28′, W. 34 18′ *†	30.00	762.0											ne.	0	0		ese.	
S. Orealia, S. 31° 35′, W. 24° —′*.	29.98	761.5				ene.			5		10		ne.	3 h'r	3 h'r	sm'h		overcast.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 27° 30′, E. 134° 00′	29.94	760.5	69	20.6	100	ssw.			6		10					long	sw.	raining.
U. S. S. Essex, Canton, China	30.13	765.3	59	15.0	82	n.			1		8							cloudy.
U. S. S. Hartford, N. 12° 49′, W. 130° 07′	30.00	762.0	78	25.6	100	ne.			5		2		ne.	0	0	sm'h	ne.	fair.
U. S. S. Juniata, Shanghai, China	30.23	767.8	42	5.6	91	nw.			2		10		nw.	light	light			cloudy.
U. S. S. Monocacy, Shanghai, China	30.20	767.1	43	6.1	75	wnw.			2		10		calm					cloudy.
U. S. S. Palos, Tientsin, China	30.08	764.0	32	0.0		ssw.			1		0							clear.
U. S. S. Ranger, Corinto, Nicaragua	29.94	760.5	76	24.4	77	e.			1		8			0	0	light		cloudy
H.M.S. Audacious, Victoria harbor, Hong Kong, China	30.07	763.8	60	15.6	88	w.			1–3		7	sw.						squally.
H. M. S. Cleopatria, N. 24° 20′, E. 118° 05′			61	16.1	82	se.			2		10	n.				2		
H. M. S. Champion, Shanghai, China	30.18	766.6	41	5.0	82	calm			0		2							blue sky.
H. M. S. Flying Fish, Tong Yung, China	30.13	765.3	56.2	13.4	88	ne.			1		10					1	ese.	misty.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.89	759.2	82.4	28.0	71	se.			1		7							d. clouds.
H. P. M. S. Tamega, Macao, China	30.13	765.3	59.0	15.0	78	nw.			2		0			0	0			blue sky.
S. S. Newbern, Cape San Lucas, Lower Cal.*†	30.00	762.0	68	20.0	79	nw.			3		5		nw.	0	0	small	wnw.	fair.
S. S. Oceanic, N. 43° 20′, W. 164° 21′	29.52	749.8	48	8.9	92	sw.			3		7		sw.	0	0	4	var.	fair.
S. S. Oregon, San Francisco, Cal †	30.22	767.6	39	3.9	38	ese.			2		0							clear.
S. S. Willametta, N. 47° 50′, W. 124° 55′†	30.36	771.1	32	0.0	90	ene.			2		7		nnw.	0	0	sm'h		cloudy.
S. S. Alameda, San Francisco, Cal			38	3.8		ne.			5		3		ne.	0	0			clear.
S. S. Ancon, San Francisco, Cal			39	3.9	73	ne.			2		5		sw.	0	0			fair.
S. S. City of Chester, San Francisco, Cal †	30.23	767.8	38	3.3	54	calm			0		0			0	0			
S. S. Queen of the Pacific, San Francisco, Cal			40	4.4	91	ene.			3		0			0	0	sm'h		clear.
S. S. State of California, San Francisco, Cal †	30.27	768.8	38	3.3	45	e.			2		5		e.					fair.
S. S. Eureka N. 46° 11′ W. 123° 51′			25	— 3.9	100	e.			3		10			0	0	sm'h		cloudy.
S. S. City of Rio de Janeiro, N. 26° 52′, E. 122° 30′	30.16	766.1				nnw.			4		4		ne.			mod.	nnw.	squally.
S. S. Colima, Champerico, Guatemala†	29.97	761.2	76	24.4	86	nnw.			3		3		se.	0	0	small	sw.	clear.
S. S. Granada, Mazatlan, Mexico †	29.99?	761.7?	74	23.3	81	nw.			2		0			0	0			clear.
S. S. San Blas, N. 7° 22′, W. 79° 58′†	29.90	759.4	74	23.3	95	ene.			3		0			0	0	sm'h	ene.	clear.
S. S. Benalder, Kobe, Japan *	30.05	763.3	45	7.2	76	nnw.			5–6		8		ne.	12 h'r	12 h'r	sm'h		heavy rain.
S. Carondelet, N. 29° 18′, E. 132° 00′ *†	29.90	759.4				w.			5		8		w.	20 h'r	20 h'r	mod.	sw.	cloudy.
S. St. Francis, N. 12° 30′, W. 120° 45′ *†	30.05	763.3	76	24.4	75	ne.			3		3		ne.	0	0	mod.	n.	clear.
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru *†	30.04	763.0	70	21.1	100	calm			0		10					mod.	w.	foggy.
U. S. S. Wachusetts, Callao, Peru *	29.98	761.5	71	21.7	100	calm			0		10		calm			sm'h		overcast.
H. M. S. Espeigle, S. 44° 05′, E. 172° 30′	30.17	766.3	58	14.4	76	w.			2		2	s.				3	s.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.25	768.3	59.3	15.2	88	ssw.			2		2					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.66	753.4	66	18.9	89	se.			1		9							d. clouds.
S. S. Australia, S. 0° 59′, W. 167° 21′	30.04	763.0	81	27.2	83	ene.			3		1		e.	0	0	sm'h	sw.	clear.
S. S. Zealandia, S. 34° 20′, E 168° 30′*†	30.33	770.4	68	20.0	69	n.			4		0			0	0	mod	sw.	clear.
S. Ismir, S. 41° 27′, W. 87° 56′ *†	30.22	767.6				w			7		8		w.	2 h'r	2 h'r	2	s.	cloudy.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.91	759.7	62	16.7		n.			2		6	n.				3	n.	
H. M. S. Sylvia, off Sandy Point, Patagonia	29.57	751.1	54	12.2	74	wnw.			2		9							d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, Port Elizabeth, Cape Colony	29.79	756.7	75	23.9	81	ese.			4–5		5		ese.	0.03	0.8	mod.	se.	fair.
H. M. S. Euryalus, Suakin, Egypt	29.94	760.5	75	23.9	68	ne			3		5	sw.						d. clouds.
H. M. S. Tourmaline, Mahraroo, Madagascar	29.94	760.5	82	27.8	83	nne.			2		2							d. clouds.
S. S. Port Phillip, Melbourne, Australia	29.90	759.4	79	26.1	54	n.			6							sm'h		cloudy.

International Chart I. February 13, 1884. Isobars and Isotherms.

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 14 .1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10.	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.18	766.6	64.4	18.0	88	se.			1		0			0	0	clear	Roziers.
Algiers			30.19	766.7	59.7	15.4	79	wnw.			3		10			0	0	covered	Thève.
La Galle			30.18	766.5	60.4	15.8	80	nw.			2		5			0	0	cloudy	Fonfrède.
Tunis			30.24	768.1	52.9	11.6	34	n.			6		2			0	0		Delord.
Geriville					54.0	12.2	63	e.			1		1			0.110	2.8	very fair	Forfert.
Laghouat			30.28	769.0	66.6	19.2	83	s.			1		8			0.008	0.2	very cloudy.	Abraham.
Biskra			30.25	768.3	69.1	20.6	66	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.08	764.0	71.8	22.1	46	e.	9	4.0			3 k			0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.98	761.5	30.17	766.3	55.5	13.1	84	s.	10	4.5			10		s.	0	0	cloudy	Com. J. Shortt, R.N.
Melbourne, Victoria	30.07	763.8	30.16	766.0	58.7	14.8	68	s.	6	2.7			10			0	0	fine	[illegible] Emery.
Austro-Hungarian.																			
Agram	29.69	754.0	30.26	768.6	39.2	4.0	67	se			2		8			0.055	1.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.49	749.0	30.29	769.4	36.0	2.2	82	ene.	4.3	1.9			9			0.008	0.2		Dr. Wierzbiski
Eperies	29.34	745.3	30.27	768.8	34.7	1.5	82	calm			0		10 s			inap.	inap.		Julius Mikolik.
Gratz	28.97	735.8	30.27	768.8	39.7	4.3	65	wnw.			1		8			0.031	0.8		Andreas Rospini.
Hermannstadt	28.74	729.9	30.23	767.9	35.2	1.8	71	sse.			3		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.89	733.9	30.31	769.8	32.7	0.4	92	ne.			2		10			0	0		The Staff.
Lemberg	29.28	743.6	30.31	769.9	36.1	2.3	65	ne.			1		9			0.035	0.9		Dr. T. Stanecki.
Pola	30.07	763.8	30.19	766.7	49.8	9.9	58	ese.			3		1			0	0		I. R. Hydrographic Office.
Szathmar	29.71	754.5	30.19	766.9	36.0	2.2	79	e.			2		8			0	0		Joseph Midlinsky, S. J
Szegedin	29.92	760.0	30.21	767.4	41.7	5.4	62	n.			2		10			0.035	0.9		Karl Stancel.
Trieste	30.12	765.1	30.22	767.6	48.9	9.4	54	sw.			2		0			0	0		Royal Academy.
Vienna	29.57	751.0	30.32	770.2	34.5	1.4	82	nw.			2		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.79	731.2	30.22	767.7	38.1	3.4	100	e.			1		2			0	0		
Brussels	29.98	761.5	30.19	766.7	48.4	9.1	75	s.			1		0			0	0		
Furnes	30.16	766.1	30.18	766.6	46.0	8.3	84	sw.			1		10			0	0		
Maeseyck	30.08	764.1	30.21	767.3	52.2	11.2	71	sse.			1		0			0	0		
British.																			
Aberdeen	29.96	761.0	30.06	763.5	45.1	7.3	78	ssw.	19	8.5			4			0.020	0.5	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			30.18	766.6	48.8	9.3	65	sse.	5	2.2			1					blue sky	John Hartnup.
Bolton, Sharples	29.64	752.8	30.18	766.6	44.0	6.7	86	ssw.					9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.78	756.4	30.18	766.6	47.1	8.4	93	w.			2		5			0.04	1.0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.06	763.5	30.09	764.3	78.5	25.8	68	ne.			7		3					showery	Corp'l C. McGregor, A.H.C
Cardington					48.0	8.9	81	n.			0–4		9					overcast	John McLaren.
Chatham, School M. E.	30.02	762.5	30.20	767.1	49.7	9.8	86	calm			0		10			blank	blank	misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.92	760.0	30.16	766.1	48.0	9.4	89	se.			1		1					blue sky	The Staff.
Fort Napier, Natal	27.36	694.9	29.67	753.6	82.0	27.8	50	w.			6		5					d. clouds	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.69	754.1	29.91	759.7	83	28.3	83	ne.			6		3					d. clouds	J. W. Smith.
Galway, Queen's College	29.91	759.7	29.95	760.7	42	5.6	83	se.			2		4			0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.13	765.3	30.18	766.6	59.0	15.0	94				3		4					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	30.02	762.5	30.19	766.8	50.1	10.1	79	nne.					7					d. clouds	The Staff.
Guernsey	29.90	759.4	30.21	767.3	49.0	9.4	82	sse.			1		0					blue sky	A. Collenette, F.R.M.S.
Kew, Observatory	30.16	766.1	30.20	767.1	50.5	10.3	72	nw.	6	2.7			6					d. clouds	The Staff.
Leicester, Museum	29.94	760.5	30.20	767.1	47.0	8.8	85	w.			1		8					overcast	J. C. Smith.
Malta, Mediterranean	29.98	761.5	30.06	763.5	58.6	14.8	79	se.			2		7			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.11	764.8	30.16	766.1	76.0	24.4	83	s.			3		7					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.98	761.5	30.20	767.1	48.9	9.4	75	nnw.			1		5					d. clouds	The Staff.
Plymouth	30.08	764.0	30.16	766.1	51.2	10.7	76	se.			2		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.84	757.9	29.94	760.5	45.5	7.5	88						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.05	763.3	30.12	765.0	46.8	8.2	46	ene.			2		1					blue sky	W. H. Lyne.
Sheffield	29.88	758.9	30.19	766.8	48.2	9.0	76	calm			0		4					d. clouds	W. F. Cooper.
Silloth Rectory	30.10	764.5	30.13	765.3	46.0	8.3	89	sw.			2		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.20	767.1	46.7	8.2	74	s.	3	1.3			7			0	0	d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					51.6	10.9	76	nw.			1.0		3					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.89	759.2	29.91	759.7	49.1	9.5	71	se.	39	17.4			5					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.74	755.4	30.14	765.5	58.6	14.8	72	n.	1.2	0.5		4 c	5 n	w.		0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.80	756.9	29.84	757.9	15.0	— 9.4		calm	0	0			10 n			0.400	10.2	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.83	757.7	29.88	758.9	29	— 1.7	89	ne.	1	0.4			10 n		calm	0.440	11.2	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.77	756.1	29.84	757.9	15	— 9.4	96	se.	2	0.9			10 n		se.	0.18	4.6	cloudy	G. A. Blair.
Cornwall, Ontario	29.19	741.4	29.38	746.2	39.2	4.0	95	nw.			1		10 n			0.689	17.5	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.78	756.4	29.83	757.7	13.0	—10.6		e.			4		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	29.56	750.8	29.58	751.3	11	—11.7	80	ne.	20	8.9			10 n			0.50	12.7	heavy hail	J. McWilliams
Fort Garry, Manitoba*	29.18	741.2	30.17	766.3	—25	—31.7	76	nw.	15	6.7		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	29.72	754.9	29.79	756.7	27.0	— 2.8	95	se.	4	1.8			fg.			0.275	7.0	dense fog	Prof. Thos. Harrison.
Grand Manan, N. B.	29.76	755.9	29.82	757.4	35	1.7	96	s.	12	5.4			fg.			0.23	5.8	dense fog	J. Chipman Seeley
Granton, Ontario	28.65	727.7	29.81	757.2	22.3	— 5.4	96	w.	5	2.2			10 n			inap.	inap.	overcast	Jas. Grant.
Halifax, N. S*	29.78	756.4	29.91	759.7	37	2.8	100	w.	1	0.4			fg			0.540	13.7	dense fog	A. Allison.
Hamilton, Ontario	29.39	746.5	29.82	757.4	19.2	— 7.1	93	sw.			1	10 ck	0	sw.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.20	741.7	29.55	750.6	35	1.7	88	sw.	10	4.5			10 n		s.	0.11	2.8	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.78	756.4	29.82	757.4	35.0	1.7	100	sw.	1	0.4			10 n			0	0	overcast	C. H. Rigby.
London, Ontario	28.87	733.3	29.82	757.4	23.3	— 4.8	86	w.			3		10 n			0.30	7.6	snowing	E. B. Reed.
Medicine Hat, N. W. T.	27.69	703.3	30.35	770.9	— 4	—20.0	87	ne.	2	0.9			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	27.96	710.2	30.26	768.6	—29	—33.9	100	nw.	4	1.8		0	0			0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.20	741.7	29.40	746.7	41	5.0	96	sw.	20	8.9			10 n			0.46	11.7	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.19	741.4	29.41	747.0	33.6	0.9	96	w.					10 s			inap.	inap.	raining	A. McGill, M. A.
Parry Sound, Ontario*	28.93	734.8	29.67	753.6	15	— 9.4	83	w.	14	6.3			10 n		w.	0.09	2.3	light snow	Rev. R. Mosley.
Peterboro, Ontario	28.84	732.5	29.61	752.1	26.3	— 3.2	86	sw.			1		10 k			0.32	8.1	overcast	Wm. O'Connor, M.A.
Port Arthur	29.09	738.9	29.86	758.4	2	—16.7	69	sw.	2	0.9		0	0			0.12	3.0	clear	W. P. Cooke.
Port Dover, Ontario	29.06	738.1	29.79	756.7	26	— 3.3	88	sw.	10	4.5			10 n			0.26	0.6	threatening.	H. Morgan.
Port Stanley, Ontario	29.12	739.6	29.80	756.9	26	— 3.3	84	w.	16	7.2			10 n		w.	0.22	5.6	cloudy	M. Payne.
Qu Appelle, N. W. T	27.72	704.1	30.44	773.2	—30	—34.4		nw.	10	4.5		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.09	738.9	29.45	748.0	24	— 4.4	88	ne.	30	13.4			10 n		ne.	0.10	2.5	sleeting	Capt. Asne, R. N.
Rockliffe, Ontario*	29.03	737.3	29.51	749.5	22	— 5.6	84	nw.	12	5.4			10 s		nw.	0.16	4.1	cloudy	W. H. McIntyre.
St. Andrews, N. B.	29.73	755.1	29.78	756.4	34	1.1	99	se.	1	0.4			fg.			0.15	3.8	dense fog	
St. John, N. B	29.68	753.9	29.83	757.7	36.3	2.4	100	se.	12	5.4			10 n			0.460	11.7	foggy	G. Hutchinson.
St. Pierre, N. F.			29.92	760.0	32.0	0.0		s.			2								The Commandant.
Saugeen, Ontario*	28.96	735.6	29.72	754.9	20	— 6.7	100	w.	10	4.5			10 s			0.13	3.3	light snow	
Stratford, Ontario	28.44	722.4	29.79	756.7	20.1	— 6.6	85	w.	11	4.9			10 s			0.470	11.9	snowing	W. McBride, M.A.
Sydney, C. B*	29.88	758.9	29.94	760.5	33	0.6	100	s.	1	0.4			10 s			0.50	12.7	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian—Continued.																			
Toronto, Ontario*	29.32	744.7	29.72	754.9	28	— 2.2	77	w.	25	11.2			10 s		w.	0.29	7.4	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.67	728.2	29.79	756.7	23.2	— 4.9	95	sw.	23	10.3			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S.*	29.80	756.9	29.87	758.7	39	3.9	96	se.	6	2.7			fg			0.63	16.0	dense fog	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.82	757.4	29.85	758.2	72.0	22.2	90	sw.				0	8 ks			0.200	5.1	fine	I. Garfelt.
Cape Town, The Castle	29.86	758.4			73.0	22.8	50	se.				2 cs;k	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4			68	20.0	64									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.94	760.4	30.01	762.3	61.7	16.5	84	sw.			1	10						cloudy	Samuel Redolez.
Iquique	29.89	759.2	29.92	759.9	68.0	20.0	85	sw.			3							cloudy	Rafael Moreno.
Niebla	29.56	750.7	29.66	753.4	57.2	14.0	86	n.			1		3 n		sw.	0	0		Federico Köhling.
Punta Caldera	29.87	758.6	29.95	760.8	65.7	18.7	78	sw.			1	8 c		sw.				fair	Manuel Tobar.
Punta Corona	29.85	758.1	30.03	762.8				n.			4		10			0.016	0.4	cloudy	Francisco Alvarado.
Valparaiso	29.87	758.7	30.01	762.2	60.8	16.0	88	s.			0	6 s	2					fair	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.25	768.4	30.28	769.0	37.4	3.0	89	ese.	5.1	2.3		4 ck	0	w.		0	0		M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.52	775.2	30.57	776.4	37.0	2.8	94	e.	22	10			10						Oversergent Fischer.
Fanöe	30.37	771.4	30.39	771.9	43.2	6.2	76	ese.			6		0						Overloerer Lauridsen.
Godthaab, Greenland	29.57	751.0	29.61	752.1	2.8	—16.2	100	nnw.			4		10						S. Kleinschmidt.
Ivigtut, Greenland	29.45	748.0	29.47	748.5	2.5	—16.4		ne.			4		3						
Jacobshavn, Greenland	29.74	755.3	29.78	756.5	—29.2	—34.0		calm			0		3						
Stykkisholm, Iceland	29.44	747.7	29.48	748.8	33.4	0.8	80	se.			6		10					snowing	A. O. Thorlacius.
Thorshavn	29.98	761.4	30.00	762.0	39.9	4.4	92	e.	20	9.			10					raining	Overloerer Bergh.
Upernavik, Greenland	29.67	753.7	29.72	754.9	—30.3	—34.6		sw.			4		2						
Vestervig	30.36	771.2	30.45	773.5	41.9	5.5	79	ese.			2		0						Loerer Oesterbol.
Egyptian.																			
Cairo	29.90	759.4			59.0	15.0		nw.	3.6	1.6			8			inap.	inap.	covered	Albert Ismalun.
French.																			
Agen, Normal School	29.64	752.8	30.29	769.3	49.6	9.8	89	nne.			1		10 kn			0.059	1.5		M. Labroue, Director.
Alençon, Normal School	29.60	751.7	30.15	765.7	39.6	4.2	83	ne.			1		10 k		sw.	0	0	covered	M. Nicot, Director.
Arras, Normal School	29.90	759.4			45.3	7.4	90	s.			1		10		sw.	0	0	covered	M. Ungerer, Director.
Avignon, Normal School	30.10	764.6	30.18	766.6	56.8	13.8	71	se.			1		10			0.047	1.2	covered	M. Giraud, Director.
Bar-sur-Seine	29.60	751.9	30.16	766.1	52.9	11.6	71	sse.			1		8		se.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.92	759.9	30.19	766.9	45.3	7.4	86	e.			1		10			0.126	3.2	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.29	743.9	30.19	766.9	61.5	16.4	60	ne.			2		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.95	760.7	30.21	767.4	54.3	12.4	61	sse.			1		5			0.075	1.9	cloudy	M. Rayet, Director.
Bourges, Normal School	29.72	754.9	30.28	769.2	48.4	9.1	97	nw.			2				nw.	0.110	2.8		M. Sauvageot, Director.
Brest, Naval Observatory	29.96	761.0	30.21	767.2	56.8	13.8	75	sse.			1		1		sse.	0.157	4.0		M. de Kermarée, Dir.
Caen, Normal School	30.10	764.4	30.17	766.3	54.0	12.2	90	ne.			1		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.80	756.9	30.12	765.1	51.3	10.7	75	e.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.69	754.0	30.21	767.4	43.2	6.2	77	e.			1		10			0	0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.80	731.5	30.18	766.5	48.2	9.0	95	n.			1		10			0.012	0.3	raining	M. Allnard, Director.
Cluny, Normal School	29.29	743.9	30.15	765.9	52.2	11.2	80	nne.			1		10		ssw.	0	0	covered	M. de Villemontée, Dir.
Commercy, Normal School	29.35	745.6	30.21	767.2	41.9	5.5	93	e.			1		10			0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.65	702.2	30.2	767.3	49.5	9.7	72	calm			0		5 n		nw.	0.035	0.9		M. Jarach, Director.
Grésque, du Rhone	29.03	737.3	30.17	766.3	52.5	11.4	86	e.			1		9		se.	0.126	3.2		M. Kina, Director.
Grenoble, Normal School	29.19	741.5	29.96	761.0	53.6	12	67	e.			1		k			0	0		M. Abiard, Director.
Guéret, Normal School	28.56	725.4	30.13	765.2	40.0	7.8	89	sw.			1		10 n		sw.			raining	M. Delorme, Dir.
Lescar, Normal School	29.64	752.9	30.21	767.4	53.4	11.9	68	ne.			4		10			0.008	0.2	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	764.6	30.21	767.2	57.9	14.4	69	ene.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.09	738.9	30.15	765.8	55.8	13.2	73	ne.			1		5 cn		nnw.	0.004	0.1	fair	M. André, Director.
Mans, Normal School	29.89	759.1	30.20	767.0	51.8	11.		wnw.			1	8 ck			nw.	0.252	6.4	very cloudy	M. Richard, Director
Marseille, Observatory	29.90	759.5	30.17	766.4	57.2	14.0	79	sw.			0–1		10		w.	0.437	11.1	light rain	M. Stephan, Director.
Montlouis	24.87	631.6	29.71	754.6	44.6	7.0	46	e	11.2	5.0			6	e.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.06	763.6	30.17	766.4	53.2	11.8	86	ne.			1		10		e.	0.035	0.9	rain & fog	M. Galzin, Director.
Nancy, Normal School	29.41	747.0	30.22	767.5	40.3	4.6	90	se.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	30.06	763.4	30.21	767.4	54.9	12.7	64	nw.			0–1		5 k;kn		w.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.06	763.5	30.17	766.4	59.9	15.5	66	ne.	3.8	1.7			10		n.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.23	539.2			27.9	— 2.3		sw.			2		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.07	738.4	30.14	765.6	54.3	12.4	81	s.			4		n		s.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.7			33.4	0.8	100	nw.			4		10			0.039	1.0		M. Allnard.
Rochefort, Naval Obs'y	30.19	766.9	30.22	767.7	54.7	12.6	70	ssw.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.00	761.9	30.22	767.5	54.0	12.2	65	sw.			4				sw.	0	0		M. Brotier, Director.
Rodez, Normal School	27.97	710.5	30.16	766.0	45.9	7.7							10		nw.	0.181	4.6	raining	M. Seger, Director.
Rouen, Normal School	30.15	765.7	30.19	766.9	51.8	11.	86	ne.			1		10		ne.	0.220	5.6	covered	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	30.01	762.3	30.18	766.5	44.4	6.9	99	wnw.			1					0.378	9.6		M. Renou, Director.
Toulouse, Observatory	29.48	748.7	30.21	767.2	50.0	10.0	97	nnw.			2		10	nw.		0.091	2.3	covered	M. Baillaud, Director.
Tours	30.02?	762.4?	30.02?	762.4?	54.7	12.6	70	ssw.			1		5	s.	sw.	0.035	0.9	cloudy	M. de Tastes.
Versailles, Observatory	29.67	753.7	30.17	766.2	46.4	8.0	94	s.			1		10			0.524	13.3	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.08	764.1	30.23	767.9	53.2	11.8	75	ne.	9.8	4.4			6 k		e.	0.071	1.8		M. Cartier, Director.
German.																			
Ansbach	28.82	732.1	30.35	770.8	36.1	2.3	74	se.			2		4	se.		0	0		Prof. Jnedt.
Bamberg	29.40	746.7	30.25	768.3	39.9	4.4	55	calm			0		4 ks			0	0		Prof. Dr. Hoh.
Berlin	30.27	768.9	30.43	772.8	37.4	3.0	56	e.			2		10			0	0		Meteorological Institute
Breslau	29.82	757.5	30.36	771.2	36.9	2.7	79	nne.			3		10					sprinkling	Royal University Obs'y
Carlsruhe	29.80	757.0	30.28	769.1	40.3	4.6	78	ese.			1		10	ne.		0	0		Albert Senz.
Cassel	29.57	751.0	30.24	768.1	39.6	4.2	70	s.			1		0			0	0	dense fog	Dr. H. Möhl.
Frankfort-on-the-Main	29.92	760.0	30.31	769.8	37.0	2.8	74	ese.			1		9			0	0		Physical Society.
Friedrichshafen	28.80	731.6	30.28	769.0	40.3	4.6	81	ssw.			1		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.34	770.7	30.43	773.0	42.4	5.8	67	se.			3		0			0	0	dense mist	E. Preller.
Kiel	30.41	772.4	30.43	772.8	42.1	5.6	76	e.			2		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.96	761.0	30.41	772.3	31.8	— 0.1	90	ene.			2		10			0	0		H. Leppig, Asst.
Magdeburg	30.22	767.5	30.42	772.7	33.4	0.8	85	e.			2		10			0	0	foggy	Weather Observatory.
Memel	30.54	775.8	30.59	777.0	37.0	2.8	84	ne.			3		10						Issermann.
Munich	28.39	721.1	30.27	768.8	33.6	0.9	94	calm			0		10			0	0		Central Station.
Neufahrwasser	30.52	775.1	30.53	775.5	36.0	2.2	84	e.			3		10			0	0		A. Lothes.
Neustadt, Palatinate	29.74	755.5	30.28	769.0	39.7	4.3	80	calm			0		10			0	0	light fog	Prof. Dicknether.
Stuttgart	29.28	743.8	30.29	769.4	40.1	4.5	76	e.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.46	773.6	30.48	774.2	38.1	3.4	90	se.			3		10			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.69	754.0	30.08	763.9	52.3	11.3		n.			1.5	0	9			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.87	758.6	29.92	759.9	78.1	25.6	29	wsw.	14.0	6.3			6			0	0	d. clouds	
Deesa	29.39	746.4	29.86	758.4	83.8	28.8	18	wsw.	3.0	1.3			0			0	0	blue sky	
Bombay	29.90	759.5	29.91	760.4	77.2	25.1	63	w.	8.0	3.6			2	wsw.		0	0	d. clouds	
Poona, Yarrowda	28.03	712.0	29.89	759.3	77.0	25.0	30	nw.	15.0	6.7			2			0	0	d. clouds	
Belgaum	27.36	695.1	29.92	759.9	73.5	23.1	54	wsw.	7.0	3.1			2	w.	s.	0.01	0.3	d. clouds	
Lahore	29.18	741.2	29.95	760.7	66.2	19.0	34	n.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.96	735.5	29.87	758.7	71.7	22.1	38	calm	0	0			0			0	0	blue sky	
Agra	29.30	744.2	29.87	758.8	75.2	24.0	24	w.	4.0	1.8			0			0	0	blue sky	
Nagpur	28.79	731.2	29.83	757.7	81.2	27.3	26	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.52	724.5	29.89	759.2	75.8	24.3	27	calm	0	0			8	sw.		0	0	d. clouds	
Lucknow	29.46	748.3	29.84	758.0	73.2	22.9	34	sse.	1.0	0.4			0			0	0	blue sky	
Allahabad	29.52	749.9	29.84	758.0	75.9	24.4	27	calm	0	0			0			0	0	blue sky	
Patna	29.65	753.2	29.84	758.0	72.9	22.7	41	ne.	4.6	2.1			0			0	0	blue sky	
Hazaribagh	27.80	706.2	29.83	757.8	72.4	22.4	24	nnw.	8.0	3.6			6	nnw.		0	0	d. clouds	
Cuttack	29.79	756.6	29.87	758.7	78.0	25.6	68	wsw.	5.0	2.2			3			0	0	d. clouds	
Calcutta, Alipore	29.81	757.3	29.84	757.8	72.9	22.7	76	s.	6.5	2.9			6		sw.	0	0	d. clouds	
Dhubri	29.79	756.6	29.91	759.7	65.9	18.8	68	ssw.	3.2	1.4			0			0	0	blue sky	
Chittagong	29.87	758.8	29.97	761.2	70.6	21.4	80	s.	6.5	2.9			10					drizzling	
Sibsagar	29.65	753.1	30.00	762.0	56.4	13.6	91	ne.	2.0	0.9			10	w.	w.	0.28	7.1	gloomy	
Jeypore	28.45	722.6	29.92	759.8	72.7	22.6	20	nnw.	7.4	3.3			0			0	0	blue sky	
Zanzibar	29.86	758.5	29.88	759.0	87.6	30.9	56	ne.	6.7	3.0			2	sw.	se.	0	0	d. clouds	
Bellary	28.38	720.8			88.0	31.1	30	s.	6	2.7		4 ck	0			0	0	d. clouds	
Trichinopoly	29.63	752.6			90.5	32.5	35	ne.	0.3	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.79	756.7	30.22	767.5	48.6	9.2	53	e.	0.7	0.3			0			0	0		Prof. Giovanni Olodig.
Milan	29.69	754.2	30.23	767.9	49.6	9.8	72	nw.	2.5	1.1			9	nne.		0	0		Prof. G.V.Schiapparelli
Padua	30.08	764.1	30.20	767.0	49.1	9.5	86	ne.	0.7	0.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.29	743.9	30.23	767.8	46.8	8.2	86	n.	0.7	0.3			10			0	0		Prof. F. F. Denza.
Genoa	29.98	761.6	30.18	766.6	51.8	11.0	89	n.	7.4	3.3			6	ne.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.14	765.5	30.19	766.8	46.8	8.2	86	n.	8.7	3.9			3			0	0		Prof. Luigi Guidi.
Florence	29.89	759.3	30.16	766.0	54.7	12.6	40	ne.			4		0			0	0		Prof. Costantino Pittei.
Leghorn	30.03	762.7	30.10	764.5	57.7	14.3	41	ene.	5.6	2.5			3	sw.		0	0		Prof. P. Monte.
Rome	29.93	760.3	30.11	764.8	57.9	14.4	36	n.	3.8	1.7			2			0.248	6.3		Prof. P. Tacchini.
Lecce	29.80	757.0	30.06	763.6	51.1	10.6	44	nnw.	16.1	7.2			4	n		0.236	6.0		Prof. C. de Giorgi.
Cosenza	29.20	741.6	30.11	764.9	54.0	12.2	72	w.	1.8	0.8			9	sw.		0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.87	758.6	30.12	765.1	57.6	14.2	58	ne.	4.3	1.9			5			0	0		Prof. G. Caccianore
Syracuse	30.04	763.0	30.08	764.1	57.7	14.3	67	s.	1.8	0.8			4	ne.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.58	751.3	30.11	764.8	53.8	12.1	55	nw.	6.9	3.1			4	nw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.84	757.8	29.87	758.7	24.7	— 4.1	77	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	29.87	758.7	29.91	759.7	27.4	— 2.6	87	e.	6.6	2.9			10 n;s			inap.	inap.	light snow	K. Ogawa.
Hakodate	29.94	760.4	29.95	760.7	21.8	— 5.7	77	n.	15.0	6.7		5 cs	0			0	0	fair	Y. Souma.
Hamamatsu	29.79	756.6	29.89	759.1	40.3	4.6	65	wnw.			6	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.18	766.5	30.19	766.9	37.9	3.3	77	n.	4.9	2.2		0	3ck;s		n.	0	0	fair	Y. Okamoto.
Kagoshima	30.18	766.5	30.19	766.8	37.9	3.3	84	n.			2	0	0			0	0	clear	
Kanazawa	29.87	758.7	29.98	761.5	31.0	1.1	89	nw.	4.2	1.9			10s;ks			0.540	13.7	overcast	S. Endo.
Kioto	29.88	758.1	30.02	762.5	37.0	2.8	72	nw.	11.1	4.9		0	1 s			0.241	6.1	clear	M. Tojima.
Kochi	30.08	764.0	30.10	764.5	44.0	6.7	55	nw.	14.8	6.6		0	8 s			0	0	cloudy	K. Kusunose.
Miasaka	30.15	765.7	30.17	766.4	39.7	4.3	72	wnw.			1	0	0			0	0	clear	K. Masusaki.
Miyako	29.76	755.9	29.87	758.7	29.0	— 1.7	85	n.	3.4	1.5			10 n			0.374	9.5	snowing	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.01	762.2	30.22	767.6	38.6	3.7	76	calm	0	0		0	0			0	0	clear	
Nemuro	29.88	758.9	29.93	760.2	11.3	—11.5	67	nw.	15.6	7.0			10 s		nw.	0	0	cloudy	A Shibuya.
Niigata	29.85	758.2	29.89	759.2	38.6	3.3	70	n.	18.2	8.1			10ks;s		n.	0.190	4.8	covered	Satoo & Tomikawa.
Nobiru	29.81	757.2	29.83	757.6	28.6	— 1.9	91	n.	7.5	3.3			10 s			0.070	1.8	covered	Yoshino & Midzushina.
Numadzu	29.76	755.9	29.79	756.7	40.0	4.4	90	ese.			2		10 ks			0.087	2.2	cloudy	T. Ohgi.
Osaka	30.04	763.1	30.06	763.5	37.3	2.9	81	w.	14.1	6.3		0	4 s			0	0	fair	H. Omura.
Sakai	30.17	766.2	30.18	766.4	39.4	4.1	65	nw.			4		10 ks		n.	0.315	8.0	cloudy	Yamawchi & Sakamoto.
Sapporo	29.95	760.8	30.02	762.6	6.0	—14.4	97	calm	0	0		0	0			0	0	clear	S. Kimura.
Shimonoseki	30.07	763.8	30.22	767.5	41.4	5.2	61	nne.			2	0	3 ks		nw.	0	0	fair	S. Sakano.
Wakayama	30.02	762.5	30.07	763.9	39.6	4.2	77	n.	9.7	4.3		0	0			0.003	0.1	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.80	756.9	29.99	761.7	81.4	27.4	68	ene.	11.5	5.1		2 cs	2 k		e.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.30	617.2	30.09	764.3	48.2	9.0	73	nnw.	0.9	0.4		4 c	4ck;s		w.	0	0	cloudy	M. Leal & M. Pina
Mazatlan	29.86	758.3	30.12	765.0	62.0	16.7	77	nnw.	11.0	4.9		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.21	767.3	30.21	767.3	47.1	8.4		ese.			3					0	0		
Groningen	30.29	769.4	30.35	770.8	40.1	4.5		s.								0	0		
Helder	30.24	768.1	30.24	768.1	40.6	4.8		se.			2					0	0		
Hellevoetsluis	30.21	767.4	30.21	767.4	50.9	10.5	79	e.			1					0	0		
Utrecht	30.19	766.9	30.25	768.3	46.0	7.8	70	sse.			2		0			0	0	clear	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	759.0			77.4	25.2	90	nnw.	0.5	0.2			10			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.24	768.2	30.31	769.8	56.1	13.4	42	s.	20	9			1			0	0		
Brono	30.42	772.7	30.46	773.7	42.6	5.9	65	calm			0		3			0	0		
Christiania	30.50	774.8	30.66	778.7	38.8	3.8	85	e.	7	3			10			0	0		
Gjæsvær	30.23	767.9	30.26	768.5	41.2	5.1		ssw.			7		10			0	0		
Lodingen	30.37	771.5	30.42	772.7	37.8	3.2	73	sw.			2		10			0.028	0.7	raining	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.92	760.0	30.01	762.3	64.8	18.2	84	wsw.	6.9	3.1			10			0.181	4.6	raining	Capt. D. A. de Cunha.
Lisbon, Observatory	29.73	755.2	30.07	763.8	52.7	11.5	98	sse.	6.9	3.1			10			0.075	1.9		The Staff.
Ponta Delgada, Azores	29.76	755.8	29.83	757.6	48.9	9.4	61	nw.	19.9	8.9			3			0.583	14.8		
Saint Paul de Loanda																			
St. Vincent, Cape Verd Ids.	30.05	763.2	30.08	764.0	69.1	20.6	71	ne.			4		9			0	0		
San Salvador, Congo	28.04	712.3	29.85	758.1	86.7	30.4	54	sw.			1		5			0	0		
Serra da Estrella	25.29	642.4	30.16	766.0	36.1	2.3	100	ese.	46.5	20.8			10			0.532	13.5	rain & fog	
RUSSIAN.																			
Akmolinski	29.00	736.5	30.20	767.1	1.6	—16.9	95	sw.	9	4		2 cs	0			0	0		Major K. Lasarew.
Archangel	30.59	776.9	30.61	777.4	27.1	— 2.7	98	ssw.	4	2			10					light snow	Capt. Seellwerstow
Ashurada	30.22	767.7	30.13	765.3	48.0	8.9	84	nnw.	7	3			10 kn			0.031	0.8		
Astrakhan	30.45	773.5	30.37	771.5	27.0	— 2.8	85	ene.	7	3			10			0	0	h'vy clouds	Capt. Wisganow.
Baku	30.25	768.3	30.20	767.1	40.5	4.7	74	n.	18	8			9 ks			0.024	0.6		
Barnaul	29.61	752.2	30.15	765.9	16.2	— 8.8	85	sw.	22	10			10			0.142	3.6		Meteorological Office.
Bielosersk	30.28	769.0	30.78	781.7	29.8	— 1.2	82	calm	0	0			10 s			0	0		
Dorpat	30.50	774.7	30.76	781.3	33.6	0.9	92	ene.	7	3			10 n			0.004	0.1	light rain	Observatory.
Ekaterinburg	29.10	739.1	30.13	765.4	17.1	— 8.3	61	wnw.	13	6			0						Meteorological Obs'y
Elissawetgrad	29.87	758.7	30.35	770.8	31.3	— 0.4	68	ne.	4	2			10 s;n			0	0		
Kasan	30.21	767.2	30.51	774.9	26.4	— 3.1	98	wnw.	4	2			10			0.008	0.2	light snow	Observatory.
Kem	30.05	778.6	30.71	779.9	32.4	0.2	85	w.	13	6			10			0	0	h'vy clouds	
Kertch	30.24	768.0	30.26	768.6	36.0	2.2	63	ne.	9	4			10 n			0	0		Lagorio & Sastyrea
Kieff	29.69	754.0	30.30	771.2	28.4	— 2.0	88	ne.	13	6			10 n			0	0		Observatory.
Koslov	29.94	760.5	30.49	774.4	19.8	— 6.8	85	ne.	9	4			10 s			0.047	1.2		
Lgov	29.88	759.0	30.51	774.9	27.3	— 2.6	79	e.	18	8			7			0	0		R. I. Ssaweljew, Engin'r.
Libau	30.60	777.3	30.63	777.9	36.5	2.5	80	e.	9	4			10			0	0		F. Quass
Lugan	30.14	765.5	30.36	771.1	24.1	— 4.4	63	ene.	13	6			8			inap.	inap.		Meteorological Obs'y
Moscow	30.10	764.0	30.62	777.8	26.2	— 3.2	86	n.	4	2		0	8 ks			0.012	0.3		Meteorological Obs'y
Nertschinsk	27.73	704.3	30.26	768.5	1.9	—16.7	94	calm	0	0			9			0.059	1.5		
Nikolaiev	30.23	767.9	30.30	769.7	30.9	— 0.6	96	s.	4	2			10 n			0	0	light clouds	Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.																			Iwanow.
Pekin, China	30.02	762 4	30.16	766.0	35.6	2.0	68	se.	2.2	1.0			9 n						Siang.
Petro-Alexandrovsk	29.99	761.7	30.36	771.2	33.1	0.6	54	ne.	1.1	0.5			3						Walter.
Petrozavodsk	30.56	776.1	30.76	781.4	33.1	0.6	76	sw.	7	3			10			0	0	light clouds	Dr. Beermann.
Pinsk	29.88	758.9	30.41	772.3	31.6	— 0.2	89	ene.	22	10			10 s			0.008	0.2		
Poti	30.04	762.9	30.07	763.7	36.5	2.5	96	calm	0	0			10 n			0.165	4.2	raining	
St. Petersburg	30.78	781.8	30.80	782.4	29.3	— 1.5	88	e.	4	2			10 n			0	0		Central Physical Obs'y.
Samarkand	27.68	703.1	30.21	767.3	44.4	6.9	56	calm	0	0		0	2 k						Dresch.
Semipalatinsk	29.65	753.1	30.37	771.3	16.0	— 8.9	81	se.	9	4			10			0	0		Major Lasarew
Sevastopol	30.04	762.9	30.26	768.5	42.3	5.7	70	nnw.	16	7		0	1 s			0	0		
Staroi Bykhov	29.97	761.1	30.56	776.2	27.3	— 2.6	79	e.	7	3			10			0.256	6.5		Carl Hagen.
Tashkend, Laboratory	28.54	724.9	30.28	769.0	39.9	4.4	63	nw.	7	3			1 k						Terch, A. M
Tiflis	28 74	729.9	30.23	767.8	33.1	0.6	87	calm	0	0			10			0.028	0.7	light rain	Physical Observatory.
Vernoe	27.62	701.6	30.34	770.6	14.7	— 9.6	84	calm	0	0			10 n						Sariono.
Viatka																			
Vladivostock	30.19	766.7	30.25	768.4	9.1	—12.7	62	n.	34	15			0			0	0		
Warsaw	29.97	761.1	30.41	772.5	34.0	1.1	85	ene.	11	5			10 n					h'vy clouds.	Astronomical Obs'y.
Yeniseisk	29.72	754.9	30.04	762.9	7.2	—13.8	82	sw.	2	1			10			0.043	1.1		M. O. Marks.
Sub-series.																			
Petrowsky Academy	30.00	762.0	30.54	775.7	24.4	— 4.2	86	ene.	10.6	4.7			10 ks		ne.	inap.	inap.	cloudy	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.04	762.9	30.15	765.7	57.0	13.9	76	se.				0	3			0	0		B.J.Elin.
Bilbao, Met. Obs'y	30 07	763.8	30.13	765.3	61.2	16.2	61	se.	2.5	1.1		2	0	e.		0	0	almost clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.21	691.2	30.26	768.5	46.8	8.2	79	w.	8.7	3.9		0	5			0.067	1.7	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27 95	709.9	30.17	766.4	51.1	10.6	77	n.	4.0	1.9		0	8			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	30.02	762.4	30.16	766.0	64.9	18.3	70	se.	0.2	0.1		5	3	e.		0	0	hazy	Olayo Diaz, Director,
Santiago, Met. Obs'y	29.08	738.5	29.98	761.4	54.3	12.4	57	se.	18.1	8.1			0			0.114	2.9	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	762.0	30.07	763.7	70.9	21.6	89	e.	1.3	0.6		1 ck	4 k;s	wnw.	s.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.96	760.9	30.02	762.4	77.4	25.2	72	ese.	9.9	4.4		0	8			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.04	763.0	30.14	765.5	62.8	17.1	65	e.	15.0	6.7		0	1		e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.90?	761.0?	30.05?	763.3?	75.9	24.4	89	se.	5.8	2.6		5 c	4 kn	e.	e.	0.189	4.8	d. clouds	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	30.60	777 3	30.64	778.3	31.3	— 0.4	96	sw.			2		10			0	0		
Umea	30.58	776.8	30.63	778.0	33.1	0.6	100	sw.			2		10			0.020	0.5		
Hernosand	30.49	774.5	30.54	775.8	31.6	— 0.2	100	sw.			2		10			0	0		
Stockholm	30.55	776.0	30.73	780.5	32.0	0.0	96	ese.			2		10			0	0		
Wisby	30.55	775.9	30 61	777.4	34.8	1.6	85	ese.			4		10			0	0		
Sub-series.																			
Upsala	30.61	777.5	30.70	779.7	33.8	1.0	99	ese.	4.3	1.9			10			0.016	0.4	foggy	H.H.Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.15	765.8	44.8	7.1	42	ene.	22	10.0			2		ne.	0	0		The Observatory.
Valona			30.09	764.2	54.1	12.3		se.			1		8			0.98	25	¾covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.92	759.9	50.2	10.1	81	se.			2		3 n		sw.	0.701	17.8		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.49	749.0	29.58	751.3	50.6	10.3	89	sw.	6	2.7			10n;fg			0.11	2.8	light rain	J. O. Barnes.
Alpena, Michigan	29.09	738.9	29.80	756 9	8.3	—13.2	74	nw.	11	4.9		0	2 s			0.10	2.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25 04	636 0	30.14	765.5	12.1	—11.1	71	ne.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.11	688.6	30.15	766.8	— 2.0	—18.9	100	e.	28	12.5			10 n		ne.	0.01	0.3	light snow	F. Newman.
Atlanta, Georgia	28.80	731.5	30.02	762 5	52.0	11.1	86	nw.	15	6.7			10 s		nw.	0.96	24.4	cloudy	S. W. Beall.
Atlantic City, New Jersey	29.71	754.6	29.72	754.9	46.0	7.8	100	s.	22	9.8			fg.			0.17	4.3	dense fog	B.A.Blundon.
Augusta, Georgia	29.74	755.4	29.94	760.5	64.5	18.1	90	s.	4	1.8			10 n			0.42	10.7	thnd'rstr'm	W.J.Evans.
Baltimore, Maryland	29.66	753.4	29.71	756.4	63	17.2	90	s.	8	3.6			10n;fg		n.	0.33	8.4	heavy rain	Geo. W. Feiger.
Barnegat City, New Jersey	29.71	754.6	29.73	755.1	49.0	9.4	98	sw.	20	8.9			fg.			0.02	0.5	dense fog	F.L.Johnson.
Bennett, Fort, Dakota	28.46	722.9	30.19	766.8	1.0	—17.2	65	nw.	5	2.2		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.14	689.3	30.14	765.5	2.0	—16.7	89	calm	0	0			10 n					light snow.	Thomas Morgan.
Bismarck, Dakota	28.21	716.5	30.19	766.8	— 6.8	—21.6	100	nw.	8	3.6		0	8 s		nw.	inap.	inap.	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.72	754.9	29.75	755.6	50.0	10.0	100	s.	22	9.8			fg.			0.09	2.3	dense fog	J. T. Eiker.
Boise City, Idaho	27.36	694.9	30.32	770.1	— 2.2	—19.0	95	se.	2	0.9		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.55	750.6	29.71	754.6	47 0	8.3	93	sw.	8	3.6			10s;fg		sw.	0.24	6.1	cloudy	O. B. Cole.
Brownsville, Texas	30.26	768.6	30.32	770 1	34 8	1.6	53	n.	20	8.9			10 s			0	0	cloudy	John McGlone.
Buffalo, New York	28.92	734.6	29.71	754.6	32	0.0	96	sw.	28	12.5			10 n		w.	0.51	13.0	light rain	Wm. Finn.
Buford, Fort, Dakota	28.03	711.9	30.24	768.1	— 7.8	—22.1	91	n.	4	1.8		9 c	0			0	0	cloudy	A. Schneider.
Cairo, Illinois	29.94	760.5	30.36	771.1	15.0	— 9.4	78	n.	14	6.3		0	4 s		n.	0.39	9.9	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.79	756.7	29.99	761.7	28.2	— 2.1	74	n	10	4.5		0	0			0	0	clear	J.H.Young.
Cape Henry, Virginia	29.81	757.2	29.83	757.7	67.0	19.4	90	s.	17	7.6			10 s		w.	0.23	5.8	cloudy	A. K. Alderson.
Cape May, New Jersey	29.72	754.9	29.75	755.6	45.5	7.5	96	s.	25	11.2			fg.			0.01	0.3	dense fog	W.E.Smith.
Cape Mendocino, California	29.20	741.7	29.90	759.4	41	5.0	73	se.			7		10 s		se.	0	0	threatening	A. P. Leavitt.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	67.0	19.4	97	s.	15	6.7		0	7 k		s.	0.10	2.5	fair	G. W. Davis.
Charleston, S. Carolina	29.92	760.0	29.98	761.5	63.5	17.5	90	sw.	11	4.9		4 ck	0	sw.		0.02	0.5	fair	J. H. Smith.
Charlotte, N. Carolina	29.00	736.0	29.89	759.2	61.4	16.3	92	sw.	9	4.0			10 n		sw.	0.71	18.0	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.25	742.9	30.11	764.8	36.0	2.2	79	nw.	16	7.2			10 ks		nw.	0.98	24.9	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.80	604.5	30.08	764.0	7.3	—13.7	63	s.	12	5.4		0	3 s			0	0	clear	E. McGovern.
Chicago, Illinois	29.35	745.5	30.10	764.5	3.3	—15.9	69	nw.	7	3.1		0	0			0.15	3.8	clear	Wm. Norrington.
Chincoteague, Virginia	29.77	756.1	29.79	756.7	48.5	9.2	100	s.	13	5.8			fg.			0.11	2.8	dense fog	C. F. Dickens
Cincinnati, Ohio	29.47	748.5	30.16	766.1	20.0	— 6.7	81	nw.	13	5.8			10 s		nw.	0.65	16.8	cloudy	L. Dunne.
Cleveland, Ohio	29.14	740.1	29.92	760.0	22.5	— 5.3	94	w.	28	12.5			10 s		w.	0.29	7.4	cloudy	W. Line.
Columbus, Ohio	29.14	740.1	30.04	763.0	22.3	— 5.4	69	sw.	24	10.7			10 s		sw.	0.30	7.6	cloudy	F.T. Williams
Concho, Fort, Texas	28.42	721.9	30.44	773.2	21.4	— 5.9	96	n.	2	0.9		7 cs	0	nw.		inap.	inap.	fair	C. E. King.
Custer, Fort, Montana	26.70	678.2	30.06	763.5	— 4	—20.0	87	se.	8	3.6		0	9 ks		w.	0	0	cloudy	W.J.Daily.
Davenport, Iowa	29.44	747.8	30.14	765 5	3	—16.1	72	w.	8	3.6		0	8 ks		w.	0.09	2.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25 24	641.1	30.20	767.1	21.0	— 6.1	64	ne.	3	1.3		0	6 s		n.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.33	719.6	30.15	765.8	—14	—25.6	59	calm	0	0		0	0			0	0	clear	H.S.Blandford.
Deadwood, Dakota	25.18	639.6	30.10	764.5	2.2	—16.6	79	sw.	2	0.9		0	0			0.02	0.5	clear	G.Kingsbury.
Delaware Breakwater, Del.	29.72	754.9	29.74	755.4	56.1	13.4	100	s.	19	8.5			10s;fg			0.05	1.3	cloudy	G.A.Martin.
Denver, Colorado	24.61	625.1	30.13	765.3	— 1.0	—18.3	68	calm	0	0		3 c	0	w.		0	0	clear	F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.15	765.8	9.6	—12.4	67	w.	8	3.6		10 cs	0	nw.		inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.20	741.7	29.95	760.7	17.1	— 8.3	67	nw.	24	10.7		5 k	0	nw.		0.19	4.8	fair	N.B.Conger.
Dodge City, Kansas	27.57	700.3	30.31	769.9	— 3.5	—19.7	87	w.	8	3.6		0	0			0	0	clear	J.E.Lanouette.
Dubuque, Iowa	29.32	744.7	30.08	764.0	2.8	—16.2	52	w.	1	0.4			10 s			0.28	7.1	cloudy	J. Harvey Smith
Duluth, Minnesota	29.07	738.4	29.88	758.9	— 3.5	—19.7	79	w.	11	4.9			10 s			0.15	3.8	cloudy	E.R.Brace.
Eastport, Maine	29.73	755.1	29.80	756.9	34.0	1.1	94	se.	2	0.9			fg.		se.	0.30	9.1	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.43	696.7	30.33	770.4	9.0	—12.8	85	nw.	6	2.7		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.37	669.8	30.25	768.3	25.0	— 3.9	65	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.12	739.6	29.89	759.2	29.0	— 1.7	82	w.	25	11.2			10 s		w	0.59	15.0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.13	739.9	29.85	758.2	0.0	—17.8	83	w.	5	2.2		7 cs	0	sw.		0.08	2.0	fair	L.M.Pindell.
Fort Smith, Arkansas	29.87	758.7	30.37	771.4	11.0	—11.7	80	calm	0	0		0	0			0.10	2.5	clear	J. B. Campbell.
Galveston, Texas	30.25	768.3	30.29	769.4	37.5	0.3	66	n.	30	13.4			10 ks		nw.	0.23	5.8	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.24	742.7	29.94	760.5	12.0	—11.1	80	w.	32	14.3			10 n		w.	0.22	5.6	light snow	Joseph E. Muelle
Grant, Fort, Arizona	25.25	641.3	30.11	764.8	20.7	— 6.3	78	e.	4	1.8		0	0			0	0	clear	Chas. A. Read.
Hatteras North Carolina	29.94	760.5	29.95	760.7	64.8	18.2	100	sw.	17	7.6			10 n		s.	0.10	2.5	light rain	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.70	652.8	30.05	763.3	1	—17.2	79	n.	2	0.9		9 k	0			0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.62	726.9	30.14	765.5	1.6	—16.9	91	nw.	11	4.9		0	0			0.01	0.3	clear	S. W. Glenn.
Indianapolis, Indiana	29.34	745.2	30.19	766.8	8.5	—13.1	65	w.	8	3.6		0	0			0.16	4.1	clear	C. F. R. Wappenhans.
Indianola, Texas	30.31	769.9	30.34	770.6	30.0	— 1.1	62	nw.	37	16.5			10 s			inap.	inap.	cloudy	I. A. Reed.
Jacksonville Florida	29.95	760.7	30.00	762.0	69.0	20.6	90	s.	15	6.7			10 s		s.	inap.	inap	cloudy	J. W. Smith.
Keokuk, Iowa	29.50	749.3	30.20	767.1	6.2	—14.3	78	w.	1	0.4		0	0			0.20	5.1	clear	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	72.5	22.5	87	w.	5	2.2		0	7 s		sw.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	29.89	759.2	29.91	759.7	65.0	18.3	90	sw.	28	12.5			10 s		sw.	0.02	0.5	cloudy	Wesley Blake.
Knoxville, Tennessee	28.96	735.6	30.04	763.0	40.3	4.6	82	nw.	12	5.4			10 s			0.76	19.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.19	741.4	30.03	762.7	— 2	—18.9	68	s.	7	3.1			10 s			0.08	2.0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.32	744.7	30.27	768.8	7	—13.9	52	sw.	1	0.4		0	0			0.01	0.3	clear	T. S. Outram.
Lewiston, Idaho	29.36	745.7	30.23	767.8	— 6.5	—21.4	68	se.	1	0.4		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	30.00	762.0	30.33	770.4	18.0	— 7.8	84	n.	8	3.6		6 k	0			0.64	16.3	fair	W. U. Simons.
Los Angeles, California	29.77	756.1	30.17	766.3	39.7	4.3	51	ne.	13	5.8		5 ck	0	e.		0	0	fair	T. S. Collins
Louisville, Kentucky	29.60	751.8	30.10	766.8	19.5	— 6.9	76	w.	15	6.7			10 s		nw.	0.59	15.0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.05	737.9	29.77	756.1	60.0	15.6	87	sw.	6	2.7			10 n		sw.	1.50	38.1	light rain	Jno. Healy.
Mackinaw City, Michigan	29.10	739.1	29.80	756.9	5.0	—15.0	76	sw.	8	3.6		0	9 s		sw.	0.40	10.2	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.95	760.7	29.96	761.0	60.1	15.6	100	sw.	19	8.5		2 cs	8 s		sw.	0.02	0.5	cloudy	William Daly.
Maginnis, Fort, Montana	25.35	643.9	30.10	764.5	1.4	—17.0	46	ne.	3	1.3			10 s			0	0	cloudy	F. Burke.
Marquette, Michigan	29.04	737.6	29.82	757.4	— 1.0	—18.3	68	nw.	1	0.4			10 s			0.06	1.5	cloudy	J. Gilligan.
Memphis, Tennessee	30.00	762.0	30.35	770.9	19.0	— 7.2	91	nw.	16	7.2			10 s		nw.	0.29	7.4	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.22	742.2	30.02	762.5	— 5.3	—20.7	70	w	5	2.2		0	0			0.25	6.3	clear	S. W. Rhode.
Mobile, Alabama	30.01	762.2	30.05	763.3	48.8	9.3	89	n.	11	4.9			10 n		s	1.29	32.8	cloudy	H. U. Jones.
Montgomery, Alabama	29.82	757.4	30.06	763.5	49	9.4	93	nw.	9	4.0			10 n		nw.	0.73	18.5	light rain	Geo. E. Franklin.
Moorhead, Minnesota	28.96	735.6	30.06	763.5	—10.4	—23.6	100	n.	18	8.0		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.39	594.1	30.01	762.2	37.0	2.8	100	sw.	78	34.8			10 n; fg		sw.	1.93	49.0	light rain	Edwd. A. Beals.
Nashville, Tennessee	29.63	752.6	30.24	768.1	27.0	— 2.8	82	nw.	14	6.3			10 s		nw.	0.93	23.6	cloudy	L. N. Jesunofsky
New Haven, Connecticut	29.59	751.6	29.71	754.6	41.6	5.3	100	s.	3	1.3			fg.			0.19	4.8	dense fog	J. H. Sherman.
New London, Connecticut	29.70	754.4	29.76	755.9	45.0	7.2	100	s.	8	3.6			10 n; fg		s	0.19	4.8	light rain	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.08	764.0	48.0	8.9	71	n.	16	7.2		0	9 ks		n	0.02	0.5	cloudy	M. Herman.
New York, New York	29.52	749.8	29.71	754.6	52.0	11.1	100	s.	12	5.4			fg.			0.08	2.0	dense fog	H. J. Peurod.
Norfolk, Virginia	29.84	757.9	29.87	758.7	66.2	19.0	89	sw.	14	6.3		10 cs	0	sw		0.30	7.6	cloudy	Wm. Davis.
North Platte, Nebraska	27.10	688.3	30.20	767.1	— 0.6	—18.1	79	nw.	5	2.2		0	0			0	0	clear	J. J. Mc Lean.
Olympia, Washington Ter	30.03	762.7	30.07	763.8	27.0	— 2.8	77	sw.	1	0.4			10 s		sw.	0	0	cloudy	J. Dascomb
Omaha, Nebraska	28.95	735.3	30.22	767.6	5.0	—15.0	76	w.	11	4.9		0	0			0	0	clear	A. Pollak
Oswego, New York	29.26	743.2	29.61	752.1	37.8	3.2	87	w	14	6.3			10 s		w.	0.23	5.8	cloudy	J. G. Linsley.
Palestine, Texas	29.84	757.9	30.42	772.7	19.4	— 7.0	67	n.	10	4.5			10 s		n.	0.08	2.0	cloudy	P. T. Jenkins.
Pensacola, Florida	29.98	761.5	30.01	762.2	57.2	14.0	82	n.	14	6.3		0	7 s		w.	0.81	20.6	fair	M. McGauran.
Philadelphia, Pa	29.59	751.6	29.70	754.4	61.0	16.1	93	s.	10	4.5			10 s		s.	0.07	1.8	threatening	T. F. Townsend.
Pike's Peak, Colorado	17.28	438.9	30.00	762.0	—18.0	—27.8	61	w.	48	21.5		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	28.99	736.3	29.85	758.2	40.5	4.7	82	w.	12	5.4			10 n		w.	0.24	6.1	light rain	O. D. Stewart.
Poplar River, Montana					—15.4	—26.3	90	s.			1	0	0			0	0	clear	G. A. Garden.
Port Huron, Michigan	29.14	740.1	29.87	758.7	28.4	— 2.0	96	w.	20	8.9			10 n			0.17	4.3	heavy snow	M. H. Perry
Portland, Maine	29.64	752.8	29.69	754.1	37.5	3.1	85	calm	0	0			fg.			0.06	1.5	dense fog	W. W. Eichelberger.
Portland, Oregon	30.01	762.2	30.08	764.0	13.8	—10.1	77	n.	1	0.4			10 ks		s.	0	0	cloudy	M. L. Hearn.
Prescott, Arizona	24.79	629.7	30.15	765.8	15.0	— 9.4	78	s.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.73	755.1	29.76	755.9	45.5	7.5	100	s.	10	4.5			fg.			0.23	5.8	dense fog	C. N. Kitchel.
Red Bluff, California	29.80	756.9	30.17	766.3	23.5	— 4.7	78	nw.	4	1.8		1 ck	0	s.		0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.20	767.1	30.45	773.4	38.0	3.3	45	n.	16	7.2		0	9 s		ne.	0	0	cloudy	L. G. Schultz.
Rochester, N. Y	28.96	735.6	29.67	753.6	35	1.7	89	w	22	9.8			10 s		w.	0.14	3.6	cloudy	E. W. McGann.
Roseburg, Oregon	29.51	749.5	30.08	764.0	14.4	— 9.8	84	nw.	1	0.4		0	fg.			0	0	clear	J. J. Nanry.
Sacramento, California	30.08	764.0	30.15	765.8	31.0	— 0.6	83	n.	4	1.8		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.64	752.8	30.30	769.6	15.2	— 9.3	83	nw.	13	5.8		0	0			0.16	4.1	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.46	773.7	30.50	774.7	5	—15.0	75	ne.			1	0	0			0	0	clear	Fred. H. Clarke
St. Paul, Minnesota	28.94	735.1	29.86	758.4	— 2.6	—19.2	87	calm	0	0		9 k	0	se.		0.03	0.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.18	741.2	30.15	765.8	—21	—29.4	85	n.	12	5.4		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.73	653.5	30.29	769.4	— 4.3	—20.2	53	nw.	3	1.3		0	0			inap.	inap.	clear	J. Craig.
San Diego, California	30.05	763.3	30.12	765.0	39.7	4.3	47	e.	5	2.2		0	0			0	0	clear	F. R. Day.
Sandusky, Ohio	29.25	742.9	29.97	761.2	16.5	— 8.6	74	w.	31	13.9		0	6 ks		w.	0.31	7.9	fair	B. F. Hough.
Sandy Hook, New Jersey	29.68	753.9	29.71	754.6	55.2	12.9	93	sw.	28	12.5			fg.			0.05	1.3	dense fog	V. P. Chappel.
Sanford, Florida	29.96	761.0	30.01	762.2	66.5	19.2	93	s.	5	2.2		0	9 ks		sw.	1.30	33.0	cloudy	J. B. Marbury
San Francisco, California	30.01	762.2	30.08	764.0	42.8	6.0	69	e.	3	1.3			10 s		s.	0	0	cloudy	N. Gorom.
Savannah, Georgia	29.86	758.4	29.95	760.7	64.5	18.1	90	s.	8	3.6		3 c	0	sw.		0.08	2.0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.22	666.0	30.07	763.8	9	—12.8	80	sw.	12	5.4		5 k	0	w.		0	0	fair	A. L. Mathews.
Shreveport, Louisiana	30.13	765.3	30.31	769.9	21.0	— 6.1	84	n.	11	4.9			10 s		n.	0.17	4.3	cloudy	E. N. Meekins.
Sitka, Alaska	30.00	762.0	30.07	763.8	24.7	— 4.1	69	ne.	6	2.7		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	29.91	759.7	29.95	760.7	62.0	16.7	93	s.	17	7.6			10 s		sw.	0.08	2.0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	30.14	765.5	— 9.5	—23.1	67	calm	0	0		6 k	0	w.		0	0	fair	D. Moore.
Springfield, Illinois	29.52	749.8	30.24	768.1	9.4	—12.6	77	sw.	11	4.9		0	0			0.40	10.2	clear	T. B. Jennings.
Stockton, Fort, Texas	27.19	690.6	30.32	770.1	26.0	— 3.3	88	n.	3	1.3			10 s			0.02	0.5	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	29.88	758.9			34.3	1.3	88	e.	12	5.4			10 s		se.	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.44	697.0	30.27	768.8	21.2	— 6.0	84	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.26	743.2	30.00	762.0	16	— 8.9	83	nw.	20	8.9		0	6 k		w.	0.11	2.8	clearing	A. Buell.
Unalashka, Alaska	29.79	756.7	29.81	757.2	36	2.2	79	e.	28	12.5			10 n		e.	3.02	76.7	light rain	Samuel Applegate.
Vicksburg, Mississippi	29.99	761.7	30.26	768.6	32.5	0.3	83	nw.	12	5.4			10 s		n.	0.02	15.7	cloudy	C. Dill.
Washington, D. C	29.60	751.8	29.72	754.9	61.0	16.1	87	sw.	12	5.4			10 n		sw.	0.21	5.3	thund'r st'm	T. B. Harrison.
West Las Animas, Colorado	26.06	661.9	30.18	766.6	—20.6	—29.2	100	w.	6	2.7		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	29.89	759.2	29.95	760.7	66.0	18.9	92	sw.	15	6.7			10 s		sw.	0.09	2.3	cloudy	L. H. Albrecht.
Yankton, Dakota	28.73	729.7	30.15	765.8	5.8	—14.6	52	w.	9	4.0		3 k	0	w.		0	0	clear	E. H. Thompson.
Yuma, Arizona	30.10	764.5	30.25	768.3	35.9	2.2	38	n.	9	4.0		1 ck	0	w.		0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.01	736.8	29.03	737.3	35.1	1.7	89	ne.	48	21.5			10 n			0.32	8.1	heavy rain	George Cheruick.
Bluefields, Nicaragua, C. A.					76	24.4		nw.			1	0	8 n			0.04	1.0	cloudy	W. R. Jackson.
Bogota, U. S. C.	22.02	559.2			53.6	12.0	83	calm	0	0		5 c	0			0.091	2.3		Joaquin Gomez.
Chimo, Fort, Ungava	29.07	753.6	29.83	757.7	—24	—31.1	100	calm	0	0		4 c	0	sw.		0	0	fair	L. M. Turner.
Kingston, Jamaica, W. I.			30.10	764.5	77.0	25.0	79	ene.	7	3.1		0	1 s		e.	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77.5	25.3	89	e.			2	5 ck	5 k	e.	e	0.510	13.0		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.33	745.0	29.89	759.2	78	25.6	89	calm			0	7 ck	3 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	92	ne.			1	0	5 ks		ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.19	766.8	30.26	768.6	—32.0	—35.6		w.	10	4.5		0	0			0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.95	760.6	29.95	760.8	77.0	25.0	87	n.	10.5	4.7		0	4 k		n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.91	759.6	29.97	761.3	73.0	22.8	89	nw.			4	0	1 k		n.	0	0	clear	Antonio Fabre.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, English Channel			49	9.4		wnw.			2		4		w.	0	0	sm'h		hazy.
S. S. Alvo, Jacmel, Hayti, W. I.			72	22.2		var.			0-1		4		calm	0	0	long	s.	fair.
S. S. Alleghany, N. 37° 54′, W. 75° —′†	29.86	758.4	52	11.1		ssw.			4		10		w.	0	0			foggy
S. S. Ailsa, Cartagena, U. S. C.			79.5	26.4	97	e.			1		10		ne.	0	0	h'vy	ene.	cloudy.
S. S. America, N. 47° 30′, W. 24° —′			42	5.6	92	nw.			10		10			0	0	high	nw.	overcast.
S. S. Alps, Kingston, Jamaica, W. I*†	30.12	765.0	76	24.4		ese.			5		6		ese.	rain	rain	short		
Schr. Annie R. Lewis, N. 23° 58′, W. 82° 14′†	30.07	763.8	79	26.1		se.			4		7	wnw.	se.	0	0	mod.	ene.	cloudy.
S. S. British Crown, N. 46° 41′, W. 23° 25′ †	28.64	727.4	45	7.2		w.			8		10			10 h'r	10 h'r	h'vy	w.	heavy rain.
S. S. Caracas, La Guayra, Venezuela *†	30.01	762.2	77	25.0	84	calm			0		0			0	0	mod.	nne.	clear.
S. S. City of Washington, N. 23° 10′, W. 82° 24′ *†	30.10	764.5	76	24.4		e.			3		2		e.	0	0	sm'h		fine.
S. S. Canada, (Br.) N. 49° 09′, W. 14° 42′			51	10.6	86	ssw.			10		9		ssw.	shr's	shr's		con.	squally.
S. S. Chalmette, Sandy Hook, N. J *†	29.70	754.4	54	12.2		ssw.			4					1 h'r	1 h'r			foggy.
S. S. Devonia, N. 42° 24′, W. 61° 24′ †	30.09	764.3	55	12.8		wsw.			3		10		wsw.	11 h'r	11 h'r	short	sw.	cloudy.
S. E. J. Spicer, N. 36° 00′, W. 44° 03′	30.53	775.4	55	12.8	81	wnw.			3		7		nw.	0	0	cross		fair.
S. S. Frisia, N. 47° 10′, W. 33° 36′			36.5	2.5		nnw.			8		4		nnw.	0	0	h'vy	nw.	hail squalls
S. S. Grecian, N. 53° 36′, W. 19° 40′	29.27	743.4	49	9.4	93	se.			9		10		sse.	3 h'r	3 h'r	high	se.	hazy.
S. S. Helvetia, N. 51° 42′, W. 8° 30′	29.95	760.7	46	7.8	92	ssw.			4		4		sw.	0	0	mod.	sw.	fair.
Bk. Havana, N. 34° 00′, W. 75° 30′			60	15.6		var.			6		10		var.	6 h'r	6 h'r	short	se.	squally.
S. S. Iowa, N. 42° 50′, W. 60° 23′			46	7.8		sw.			4					3 h'r	3 h'r	long	ssw.	dense fog.
Bg. L. & W. Armstrong, N. 39° 46′, W. 73° 58′ *†	29.86?	758.4?				s.			4		0			0	0	mod	s.	dense fog.
S. S. Mentmore, N. 51° 39′, W. 8° 19′*†	29.90	759.4	65	18.3		e.			5		10			0	0	sm'h		cloudy
S. S. Marengo, N. 49° 29′ W. 39° 24′ *†	30.03	762.7	40	4.4		wnw.			6		8		nw.	5 h'r	5 h'r	r'gh	wnw.	cloudy.
S. S. Orinoco, Hamilton, Bermuda †	30.40	772.1	70	21.1		sse.			1		8		sse.	0	0			cloudy.
S. S. Ohio, (Am) Liverpool, Eng*†	30.19	766.8	49	9.4	93	w.			1		8		w.	0	0			cloudy.
S. S. Pennsylvania, Galley Head, Ireland			49	9.4	93	s.			4		6		ssw.	0	0	light	s.	fair.
S. S. Rhynland, N. 49° 48′, W. 24° 00′	28.46	722.9	52	11.1	100	se.			9		10		s.	18 h'r	18 h'r	high	var.	hurricane.
S. S. Sardinian, N. 49° 53′, W. 31° 57′	29.31	744.5	37	2.8		nnw.			8		9		nnw.	6 h'r	6 h'r	h'vy	n.	cloudy
S. S. Switzerland, N. 44° 37′, W. 49° 24′*†	29.94	760.5				wsw.			2		10		wsw.	7 h'r	7 h'r	long	nw.	dense fog.
S. S. Salier, N. 49° 48′, W. 10° 53′ *	29.90	759.4				s.			5		5		s.	3 h'r	3 h'r	cross	var.	fair.
S. S. Valencia, N. 13° 17′, W. 68° 30′ †	30.08	764.0	80	26.7	85	ene.			5		7		e.	4 h'r	4 h'r	h'vy	e.	fair.
Schr. Adda Doane, Kingston, Jamaica, W. I†	30.09	764.3				se.			3		2		ene.	0	0			clear.
Bg. Alcira, N. 11° 28′, W. 71° 30′ *	30.07	763.8	80	26.7		nne.			2		2		ene.	0	0			hazy.
S. S. Britannic, N. 44° 50′ W. 43° 20′*†	30.15	765.8	31?	—0.6?		nne.			2		10		ne.			high	ne.	snowing
S. S. British Prince, N. 44° 59′ W. 36° 56′†	29.99	761.7	45	7.2		nw.			7		9		nw	12 h'r	12 h'r	h'vy	nw.	snow squalls
Bk. Chas. Stewart, Gibraltar, Mediterranean						se.			2		2		s.	0	0	sm'h	w.	fair.
Bk. Cato, N. 38° 38′, W. 34° 30′†	30.33	770.4				nw.			7		4		nw.	0	0	h'vy	nw.	fair.
S. S Donau, N. 44° 12′, W. 46° 38′	30.06	763.5	40.1	4.5		se.			5		10		ese.	6 h'r	6 h'r	long	ne:se.	misty.
S. S. Gellert, Hamburg, Germany	30.38	771.6	48	8.9	85	ese.			4		0			0	0			clear.
S. S. New York, N. 31° 14′ W. 77° 00′ *†	30.06	763.5	78	25.6		ssw.			5		10		ssw.	0	0	high	se.	cloudy.
S. S. Pavonia, N. 47° 57′, W. 25° 21′	29.35	745.5	44	6.7	84	nw.			7		7		nw.	10 h'r	10 h'r	h'vy	nw.	h'vy squalls
S. Parker M. Whitmore, N. 49° 50′, W. 12° 25′*†	29.67	753.6	53	11.7		se.			8		10		se.	1 h'r	1 h'r	high	cross	squally.
S. S. Sirius, N. 11° 23′, W. 52° 01′	30.02	762.5				ne.			6		2		var.	0	0	high	ne.	clear.
Bk. Saga, N 36° 28′, W. 74° 55′†	29.93	760.1	57.5	14.2		s.			3-6		8		ssw.	4 h'r	4 h'r	3-6	sse.	heavy rain.
S. S. Vaderland, N. 47° 58′, W. 28° 00′			40	4.4		n.			9		7		nnw.	20 h'r	20 h'r	high	nnw.	
S. S. Wyoming, New York, N. Y	29.69	754.1	50	10.0		ssw.			3		9		s.	0	0			foggy.
S. S. Wieland, N. 46° 32′, W. 45° 56′*	30.00	762.0	38	3.3		nw.			6		10		nw.	rain	rain	h'vy	n.	misty.
S. S. Westphalia, Hamburg, Germany			48	8.9	100	w.			4		4			0	0			fair.
S. S. Crescent City, N. 10° 15′, W. 79° 05′*†	29.95	760.7	77	25.0		nne.			1								nne.	fine.
S. S. Reliance, N. 21° 14′, W. 66° 00′			80	26.7		e.			6							small	w.	squally.
S. S. Nurnberg, N. 49° 59′, W. 7° 30′	30.06	763.5	51.8	11		s.			5		3		s.	1 h'r	1 h'r	long	wsw.	fair.
U. S. Navy Yard, Portsmouth, N. H*	29.65	753.1	37	2.8	100	se.	12	5.4			10		se.	0.05	1.3			foggy.
U. S. S. Alliance, San Juan, Porto Rico, W. I.	30.14	765.5	74	23.3	86	e.			2		8		e.	light	light	sm'h		cloudy.
U. S. S. Kearsarge, Naples, Italy	30.12	765.0	57	13.9	69	nne.			2		5		nnw.					fair.
U. S. S. Lancaster, Naples, Italy			49	9.4	93	ne.			1		5		ne.	0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	29.79	756.7	41	5.0	91	ssw.			4		10					sm'h		foggy.
U. S. S. Quinnebaug, Leghorn, Italy	30.10	764.5	61	16.1	66	e.			1		2		e.			sm'h		fair.
U. S. S. Swatara, N. 18° 58′ W. 74° 16′	30.12	765.0	79	26.1	78	e.			2		2		e.	light	light	sm'h		clear.
U. S. S. Tennessee, New Orleans, La.	30.08	764.0	59?	15.0?	70	nnw.	22	9.8			5		nnw.	0.05	1.3			showery.
U. S. S. Trenton, Naples, Italy	30.14	765.5	59	15.0	65	nne.			2		5		ne.					fair.
U. S. S. Vandalia, Curacoa, W. I	30.04	763.0	77	25.0	82	e.			4		2		e.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.18?	766.6?	65	18.3	71	ene.			1		10	ene.						1. clouds
H. M. S. Boadicea, Sierra Leone, Senegambia	29.97	761.2	81	27.2	91	wnw.			2		3	wnw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.34	770.6	66.5	19.2	86	ssw.			2		5	wsw.						d. clouds.
H. M. S. Himalaya, N. 31° 20′, W. 36° 30′	30.18	766.6	61	16.1	66	nw.			3-5		8	ssw.				4	nnw.	squally.
H. M. S. Monarch, Port Said, Egypt	30.00	762 0	58	14.4	76	wsw.			4		9							showery.
H. M. S. Minotaur, N. 38° 40′, E. 11° 05′	30.14	765.5	58	14.4	79	ene.			1		1							misty.
H. P. M. S. Douro, St, Thomas, Gulf of Guinea	29.89	759.2	87.8	31.0	93	sse.			3		9		se.	0	0	1	se.	d. clouds.
S. S. British Princess, N. 38° 50′, W. 72° 00′†	29.85	758.2	52	11.1		sw.			4		10			10 h'r	10 h'r	sm'h		drizzling.
S. S. Prussian, N. 47° 09′, W. 32° 46′	29.80	756.9	41	5.0		nnw.			8		5		nnw.	0	0		nw.	squally.
S. S. Scandinavian, Glasgow, Scotland	30.11	764.8	46	7.8		sw.			5		4		sw.	4 h'r	4 h'r			d. clouds.
S. S. Dorian, N. 49° 09′, W. 30° 10′			38	3.3		nnw.			7		10		n.	h'vy	h'vy	r'gh	n.	overcast.
S. S. Carroll, N. 42° 21′, W. 70° 43′*†	29.73	755.1	46	7.8		s.			3		10		s.	rain	rain	short	s.	rain & fog.
S. S. Llandaff City, N. 48° 40′, W. 26° 03′*†	28.80	731.5	44	6.7		nnw.			9		10					h'vy	nnw.	hurricane.
S. S. Wisconsin, N. 49° 50′, W. 28° 00′	28.76	730.5	44	6.7		nnw.			10		10		n.	10 h'r	10 h'r	high	nnw.	snow squalls
S. S. Bohemia, N. 52° 10′, E. 3° 01′						s.			4		6		s.	0	0	sm'h		fair.
S. S. Rhaetia, N. 45° 32′, W. 47° 31′	29.94	760.5	30	— 1.1		e.			2		10			8 h'r	8 h'r	mod.	w.	hazy.
S. S. Hevelius, N. 3° 22′, W. 27° 05′			78	25.6		ene.			4		7?		wnw.	0	0			clear?
S. S. Rosse, N. 14° 55′, W. 25° 38	30.05	763.3	73	22.8	72	nne.			5		3		nne.	0	0			fine.
S. S. Archimede, (It) Palermo, Sicily			56	13.3		ne.			2		3		ne.	0	0			clear.
S. S. Picqua, N. 40° 52′, W. 45° 41′*†	30.20	767.1	57?	13.9?	94	wnw.			7				nw.	4 h'r	4 h'r	high	var.	cloudy.
S. S. Ontario, N. 44° 30′, W 46° 40′			39	3.9		ese.			6		9		wnw.	6 h'r	6 h'r	mod.	wnw.	misty.
S. S. Denmark, N. 43° 10′, W. 34° 15′ †	29.98	761.5	44	6.7	84	wnw.			7		7		wnw.	0	0	h'vy	nw.	fair.
S. S. England, New York, N. Y.						w.			2		10			0	0			dense fog.
S. S. Erin, N. 44° 48′, W. 48° 50′			35	1.7		w.			3		fg.		wnw	4 h'r	4 h'r	sli't	sw	misty.
S. S. Leipzig, N. 36° 19′, W. 25° 45′*	29.92	760.0	49.5	9.7	89	nw.			7		4		nw.	7 h'r	7 h'r	high	nw.	stormy.
S. S. City of Augusta, New York, N. Y *†	29.70	754.4				sse.			2		3		ese.	0	0			foggy.
S. S. Muriel, N. 37° 00′ W. 71° 15′	29.98	761.5	72?	22.2?		sw.			5		10		wsw.	3 h'r	3 h'r	r'gh	sw.	raining.
S. S. Waesland, Antwerp, Belgium	30.11	764.8	49	9.4		ese.			4		0			0	0			clear.
S. S. Westernland, Jersey City, N. J	29.70	754.4	54	12.2	93	se.			1		10			20 h'r	20 h'r			foggy.
S. S. W. A. Scholten, Rotterdam, Holland	30.25	768.3	47.7	8.7	82	w.			1		2		s.	0	0			fair.
S. S. Zaandam, N. 42° 39′, W. 34° 40′			54.0?	12.2?	91	nw.			6		6		nw.	11 h'r	11 h'r	h'vy	nw.	snow & hail.
S. S. State of Nevada, N. 44° 30′, W. 46° 51′			26?	—3.3?		wnw.			5		10		wnw.	snow	snow	high	wnw.	cloudy.
S. S. Saxon, Boston, Mass *†	29.70	754.4	45	7.2		ssw.			1		10			rain	rain			
S. S. Celtic, Liverpool, Eng*†	30.14	765.5	51	10.6		s.			3		5		s	6 h'r	6 h'r			hazy.
S. S. Lepanto, N. 37° 24′. E. 8° 19′	30.17	766.3	60	15.6		nw.			1		0			0	0	sm'h		clear.
S. S. Romano, off North Foreland, England			48	8.9		ese.			4		10			4 h'r	4 h'r	mod.	se.	cloudy.
S. S. Salerno, New York, N. Y †	29.72	754.9	57	13.9		s.			5		10		ne.	0	0			foggy.
S. S. Antonio Lopez, N. 37° 07′, W. 1° 23′	30.18	766.6	59.5	15.3	82	calm			0		10					sm'h		misty.
Bgt. Achsah, N. 31° 06′, W. 59° 56′			68	20.0		sse.			2		6?		ese.	0	0	mod.	se.	clear.?
S. Armenia, N. 50° 30′, W. 13° 50′*	29.47	748.5	52	11.1	83	se.			8		6		se.	0	0	h'vy	var.	
Bk. Adelaide, N. 8° 11′, W. 31° 40′*†	30.01	762.2	82	27.8		ene.			5		5		ene.	0	0	mod.	ene.	fair.
S. S. Bracadale, N. 39° 39′, W. 70° 34′						n.			4		9		n.	2 h'r	2 h'r	light	ne.	snow squalls
Bk. Benjamin Dickerman, N. 33° 20′, W. 67° 15′*†	30.38	771.6	70	21.1		sse.			5		1		ssw.	0	0	long	sse.	clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. Cornelius, N. 39° 17′, W. 67° 59′*†	30.03	762.7	59.0	15.0		s.			5		10		wsw.	4 h'r	4 h'r	h'vy	var.	misty.
S. Dora, N. 53° 14′, W. 26° 44′†	29.06	738.1	40.1	4.5		n.			8		6?		n.	4 h'r	4 h'r	mod.	n.	overcast.?
S. David Stewart, Barbadoes, W.I.			76	24.4		e.			6		2		e.	sh'rs	sh'rs			
Schr. Edith R. Seward, N. 31° 58′, W. 61° 30′†	30.42	772.7	69	20.6		sse.			1		9		s.	0	0	sm'h	se.	cloudy.
Bk. Fred. W. Carlon, Progreso roads, Mexico†	29.97	761.2	78	25.6		se.			5		0			0	0	sm'h	ne.	clear.
Bk. Gloire, N. 22° 36′, W. 62° 26′*	30.22	767.6	80	26.7		e.			5		5?		e.	0	0	short	ese.	clear.?
Bk. George Davis, N. 38° 31′, W. 58° 39′*†	30.24	768.1				sw.			5				sw.	0	0	short	s'w	
Bk. Galeon, Grimsby Road, Eng†	30.18	766.6	49	9.4		nw.			1		8			light	light			overcast.
S. Hedwig, N. 42° 44′, E. 16° 01′	30.16	766.1	54.0	12.2	65	n.			1		3		nnw.	0	0	sm'h		fair.
Bk. Hattie G. McFarland, N. 27° 46′, W. 87° 27′†	29.97	761.2	70	21.1		nw.			4		6		nw.	2 h'r	2 h'r	r'gh	se.	clearing.
S. Henry, N. 36° 36′, E. 15° 30′*	30.12	765.0	59.9	15.5		sw.			1–2	6 ck	0					sm'h		hazy.
Schr. John L. Thomas, South Hobbies Cays, C. A.†	29.98	761.5	76	24.4	80	e.			2		1		e.	0	0			clear.
Bg. John Welsh, jr., N. 26° 36′, W. 84° 20′†	30.05	763.3				sse.			4		5		sse.			sm'h	se.	fair.
S. S. Laurel, off Cape Florida, Fla†	30.08	764.0	77	25.0		sse.			3–4		9		sse.	4 h'r	4 h'r			threatening.
Bg. L. F. Munson, N. 29° 04′, W. 58° 22′			70	21.1		e.			2		5		se.	0	0	long	ese.	fair.
S. S. Madrid, Shields, Eng.†	30.05?	763.3?	52	11.1	86	sw.			3		5		sw.	0	0			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga.†	30.01	762.2	74?	23.3?		s.			2					0	0	sm'h	ne.	cloudy.
Schr. Norena, Ponce, Porto Rico, W. I.†	30.11	764.8				ne.			2		3		ene.	0	0			
Bk. Orpheus, N. 50° 42′, W. 14° 53′*	29.34	745.0	52	11.1		sse.			8		10 k					hv'y	s.	cloudy.
Bg. Rising Sun, N. 9° 15′, W. 59° 12′†	30.05	763.3	80	26.7		ne.			5		5		ne.	rain	rain	long	ne.	squally.
S. S. Radnorshire, N. 36° 11′, W. 4° 38′*†	30.18	766.6				se.			2		2		se.	0	0			fine.
Bgt. Sunlight, N. 36° 05′, W. 67° 20′						ssw.			5		5		ssw.	0	0	med.	ssw.	fair.
S. St. David, N. 5° 51′, W. 32° 16′*†	30.05	763.3	83	28.3	75	nne.			5		1		ne.	½ h'r	½ h'r	long	ne.	hazy.
S. Stephen D. Horton, Antwerp, Belgium †	30.18	766.6				ese.			2		0			0	0			clear.
S. Vincenzo Accame, N. 38° 40′, W. 65° 58′†	30.13	765.3	60.8	16		s.			6		7		ssw.	0	0	rg'h	s.	
S. S. Mansdam, N. 44° 45′, W. 38° 00′*	29.90?	759.4?	39.2	4		n.			4							high		fair.
S. S. Strathleven, N. 48° 34′, W. 22° 58′						sw.			9		10					8	sw.	squally.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.89	759.2	68	20.0	79	nnw.			1		10		s.					cloudy.
H. M. S. Amethyst, Montevideo, Uruguay	29.78	756.4	65.5	18.6	81	ene.			1		0							blue sky.
H. M. S. Opal, Simons Bay, Cape Colony*†	29.93	760.2	68	20.0	65	se.			3		7	se.						d. clouds.
H. P. M. S. Rainha de Portugal, Congo river, Guinea	29.84	757.8	82.9	28.3	80	wnw.			2		3			0	0	2		blue sky.
H. P. M. S. Bengo, S. 4° 21′, E. 4° 26′	29.94	760.4	82.4	28.0	88	se.			1		6		se.	0	0	3	se.	blue sky.
Bk. Celestina, S. 13° 05′ W. 33° —′*†	30.04	763.0				e.			3		2			0	0	light	e;se.	clear.
S. S. George S. Homer, S. 34° 44′ W. 35° 52′*†	29.85	758.2				nne.			6		5		nne.	4 h'r	4 h'r	r'gh	var.	squally.
Bk. Godeffroy, S. 4° 14′, W. 31° 59′	29.92	760.0	83.5	28.6	82	e.			5		4 k		e.	0	0	mod.	ne.;e.	hazy.
S. Grecian, S. 43° 34′, W. 38° 43′†	29.18	741.2	53	11.7	100	ese.			6		10	se.	ne.	8 h'r	8 h'r	cross	var.	rainy.
S. Henry Failing, S. 35° 49′, W. 29° 52′*†	29.84	757.9	69	20.6	95	n.			5		2		n.	0	0	sm'h	ne.	clear.
Bk. Horace Scudder, S. 6° 10′, E. 12° 03′*†	30.10	764.5	85	29.4		w.			3		2		w.	0	0			fair.
Bkt. Levanter, Montevideo, Uruguay*	29.90	759.4	65	18.3		nnw.			2		0			0	0	sm'h		clear.
Bk. Winifred, S. 17° 03′, W. 33° 28′*†	30.10	764.5											ne.	0	0		ene.	
S. Orcalia, S. 25° 55′, W. 21° 25′*	29.88	758.9				ne.			6		10		nw.	6 h'r	6 h'r	short	se.	overcast.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 27° 06′, E. 133° 30′	30.15	765.8	62	16.7	77	n.			5		5		n.			mod.	w.	fair.
U. S. S. Essex, Canton, China	30.08	764.0	62	16.7	88	se.			1		10							overcast.
U. S. S. Hartford, N. 13° 39′, W. 131° 45′	30.05	763.3	75	23.9		nnw.			1		2		ne.	0	0	sm'h		clear.
U. S. S. Juniata, Shanghai, China	30.28	769.1	39	3.9	91	e.			1		0			0	0			clear.
U. S. S. Monocacy, Shanghai, China	30.31	769.9	39	3.9	82	se.			1		2		se.					fair.
U. S. S. Palos, Tientsin, China	30.16	766.1	30	— 1.1		ese.			4		2							fair.
U. S. S. Ranger, Cape Desolado, Nicaragua	29.99	761.7	76	24.4	86	calm			0		0			0	0	light		clear.
H. M. S. Audacious, Victoria harbor, Hong Kong, China	30.06	763.5	60	15.0	94	e.			2		3	e.						d. clouds.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.10	764.5	59	15.0	76	ene.			3		10	calm				1		overcast.
H. M. S. Champion, Shanghai, China	30.30	769.6	43	6.1	75	se.			1		4	se.						d. clouds.
H. M. S. Flying Fish, N. 24° 26′, E. 118° 04′			54	12.2	93	ne.			2–4		10					2	nne.	overcast.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.88	758.9	84.5	29.2	73	sse.			2		7							d. clouds.
H. P. M. S. Tamega, Macao, China	30.13	765.4	60.8	16.0	87	n.			3		10			0	0			overcast.
S. S. Newbern, N. 23° 10′, W. 109° 56′			70	21.1	90	nnw.			2		4		nw.	0	0	small	nnw.	fair.
S. S. Oceanic, N. 42° 51′, W. 158° 21′	29.64	752.8	49	9.4	93	sw.			4		3		sw.	0	0	3	sw.	clear.
S. S. Oregon, San Francisco, Cal.†	30.05	763.3	46	7.8	54	calm			0		10		sw.					cloudy.
S. S. Alameda, San Francisco, Cal.	30.06	763.5	42	5.6		se.			1		0			0	0			clear.
S. S. Ancon, San Francisco, Cal.	30.03	762.7	45	7.2	61	sw.			5		5		ese.	0	0			fair.
S. S. City of Chester, Humboldt Bar, Cal.†	29.95	760.7	48	8.9	70	se.			4		10			0	0	sm'h		
S. S. Queen of the Pacific, San Francisco, Cal.	30.01	762.2	44	6.7	84	nne.			1		4		ne.	1 h'r	1 h'r	sm'h		fair.
S. S. State of California, San Francisco, Cal.†	30.08	764.0	42	5.6	83	se.			2		10		ese.					cloudy.
S. S. Eureka, N. 48° 21′, W. 124° 10′			30	2.2	80	ene.			4		0			0	0	sm'h		clear.
S. S. Australia, N. 3° 39′, W. 165° 48′	29.98	761.5	79	26.1	95	ne.			4		4		ne.	rain	rain	mod.	ne.	fair.
S. S. City of Rio de Janeiro, N. 23° 53′, E. 118° 16′†	30.15	765.8				n.			4		4?		ne.			mod.	ne.	overcast?
S. S. Colima, San Jose, Guatemala†	29.99	761.7	71	21.7	95	se.			2		2		calm	0	0	small	sw.	clear.
S. S. Granada, N. 23° 00′, W. 108° 27′†	30.02?	762.5?	68	20.0	74	nw.			0		0			0	0	mod.	wnw.	clear.
S. S. San Blas, N. 8° 13′, W. 83° 46′†	29.88	758.9	79	26.1	95	wnw.			5		9		nw.	0	0	mod.	wsw.	cloudy.
S. Carondelet, N. 31° 10′, E. 134° 42′*†	29.98	761.5				nw.			0		2		nw.	0	0	r'gh	nw.	clear.
S. St. Francis, N. 15° 00′, W. 121° 00′*†	30.05	763.3	76	24.4	82	ne.			3		6		ne.	½ h'r	½ h'r	sm'h	n.	fair.
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru*†	30.06	763.5	71	21.7	100	calm			0		10					mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru*	30.01	762.2	70	21.1	100	calm			0		8		calm			sm'h		cloudy
H. M. S. Espiegle, S. 44° 56′, E. 171° 25′	29.87	758.7	56	13.3	94	sse.			5		3	nw.					s.	squally
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.20	767.1	59.3	15.2	88	calm			0		1					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	30.12	765.0	56	13.3	87	calm			0		8							d. clouds.
S. S. Zealandia, S. 34° 10′, E. 163° 08′*†	30.23	767.8	75	23.9	86	nw.			5		0			0	0	mod.	nw.	clear.
S. Izmir, S. 43° 46′, W. 86° 11′*†	30.13	765.3				ssw.			0		8		ssw.	1 h'r	1 h'r	2	s.	cloudy.
S. S. Port Phillip, S. 39° 03′, E. 145° 54′	30.00	762.0	64	17.8	94	s.			3							sm'h		clear.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.96	761.0	62	16.7		n.			1		4	n.				4	n.	
H. M. S. Sylvia, off Sandy Point, Patagonia	29.37	746.0	51.5	10.8	80	w.			2		3							d. clouds.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, Port Elizabeth, Cape Colony	29.82	757.4	72	22.2	80	sw.			4		10		w.	0.30	7.6			cloudy.
H. M. S. Eurydus, Suakin, Egypt	29.94	760.5	74	23.3	72	ne.			3		4	calm						d. clouds.
H. M. S. Tourmaline, Tamatave, Madagascar	29.98	761.5	85	29.4	79	sse.			1		5							d. clouds.

International Chart I. February 14, 1884. Isobars and Isotherms.

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 15, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.08	764.0	66.0	19.4	87	se			1								Roziere.
Algiers			30.10	764.4	69.8	21.0	54	sw.			1		8			0	0	very cloudy	Thève.
La Calle			30.11	764.7	62.2	16.8	79	ene.			1		1			0	0	very fair	Fonfrède.
Tunis			30.13	765.3	56.5	13.6	58	nnw.			5		3			0	0		Delord.
Geriville					63.0	17.2	33	w.			2		1			0	0	very fair	Forfert.
Laghouat			30.21	767.4	64.8	18.2	80	s.			1		0			0	0	clear	Abraham.
Biskra			30.17	766.2	69.8	21.0	67	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.98	761.5	81.0	26.7	35	ese.	24	10.7			7 k		nw.	0	0	squally	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.77	756.1	29.96	761.0	57.2	14.0	93	sse.	10	4.5			1		sw.	0	0	clear	Com. J. Shortt, R.N.
Melbourne, Victoria	30.02	762.5	30.11	764.8	57.2	14.0	82	s.	4	1.8			3			0.	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.69	754.0	30.26	768.7	36.3	2.4	61	ne.			3		10			0.008	0.2		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.65	753 2	30.47	773.9	32.4	0.2	81	ene.	11.2	8.6			10			0.004	0.1		Dr. Wierzbiski
Eperies	29.48	748.8	30.41	772.4	34.5	1.4	74	n.			2		10 ks		s.	0	0		Julius Mikolik.
Gratz	29.02	737.1	30.34	770.5	33.4	0.8	77	se.			3		10			0.161	4.1		Andreas Rospini.
Hermannstadt	28 84	732.4	30.33	770.4	37.8	3.2	63	se.			3		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.74	730 0	30.15	765 7	35.4	1.9	75	e.			5		9			0	0	clear	The Staff.
Lemberg	29.46	748.2	30.52	775.1	27.7	— 2.4	71	se.			3		10			0.008	0.2		Dr. T. Stanecki.
Pola	30.00	762.0	30.11	764.9	44.6	7.0	57	ene.			6		10			0	0		I. R. Hydrographic Office.
Szathmar	29.83	757.6	30.31	769.9	41.0	5.0	57	e.			3		7			0	0		Joseph Midlinszky, S. J
Szegedin	29.99	761.7	30.28	769.1	43.7	6.5	51	e.			1		6			0	0		Karl Stancel.
Trieste	30.06	763.6	30.16	766.1	44.4	6.9	44	e.			5		10			0	0		Royal Academy.
Vienna	29.62	752.4	30.38	771.6	34.0	1.1	89	e.			1		10			0.087	2.2		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.69	728.8	30.14	765.6	33.4	0.8	91	e			3		2			0	0		
Brussels	29.99	761.7	30.20	767.0	39.6	4.2	65	e.			2		1		ese.	0	0		
Furnes	30.13	765.4	30.15	765 9	40.5	4.7	68	ene.			2		0			0	0		
Maeseyck	30.13	765.3	30.26	768.5	45.0	7.2	72	e.			2		3			0	0		
British.																			
Aberdeen	30.30	769.6	30.40	772.1	40.0	4.4	78	se.	27	12.1			10			0.080	2.0	overcast	W. Boswell.
Bidston, Liverpool Obs'y			30.08	764.0	41.0	5.0	72	e.	32	14.3			6					d. clouds	John Hartnup.
Bolton, Sharples	29.60	751.8	30.14	765.5	39.5	4.2	78	e.	12	5.4			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.79	756.7	30.19	766.8	41.1	5.1	81	e.			4		10			0.01	0.3	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.08	764.0	30.11	764.8	80	26.7	62	ne.			7		4					showery	Corp'l C. McGregor, A.H.C
Cardington					41.0	5.0	78	se.			1.0		6					d. clouds	John McLaren.
Chatham, School M. E.	29.96	761.0	30.14	765.5	38.5	3.6	82	e.			3		9			blank	blank	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.63	752.6	29.86	758.4	49.0	9.4	75	ese.			6		6					d. clouds	The Staff.
Fort Napier, Natal	27 58	700.5	29.89	759.2	70.2	21.2	79	ne.			1		10					overcast	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone	29.72	754.9	29.96	761.0	84	28.9	79	sw.			8		6					d. clouds	J. W. Smith.
Galway, Queen's College	29.79	756 7	29.83	757.7	43	6.1	83	e.			2		4			0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.87	758.7	29.92	760.0	60.0	15.6	94	e.			3		10					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.94	760.5	30.12	765.0	38.8	3.8	86	ese.					10					overcast	The Staff.
Guernsey	29.64	752.8	29.94	760.5	45.0	7.2	96	ese.			2		10					overcast	A. Colleuette, F.R.M.S.
Kew, Observatory	30.07	763.8	30.11	764.8	42.2	5.7	74	e.	28	12.5			6					misty	The Staff.
Leicester, Museum	29.88	758 0	30.11	764.8	41.5	5.3	79	e.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.97	761.2	30.05	763.3	59.4	15.2	79	ne.			2		2			0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.19	766 8	30.24	768.1	76.5	24.7	82	s.			2		10					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.87	758 7	30.10	764.5	41.1	5.1	78	e.			4		3					blue sky	The Staff.
Plymouth	29.83	757.7	29 90	759.4	48.2	9.0	89	ese.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.26	743.2	29.36	745.7	40.5	4.7	88						7					d. clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.07	763.8	30.14	765.5	43.6	6.4	72	ne.			2		8					d. clouds	W. H. Lyne.
Sheffield	29.86	758.4	30.19	766.8	41.0	5.0	72	ne.			2		7					overcast	W. F. Cooper.
Silloth Rectory	30.15	765.8	30.18	766 6	42.0	5.6	84	e.			5		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.17	766.3	39.9	4.4	73	e.	19	8.5			6			0	0	d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					44.7	7.1	70	ne.			2.5		6					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.64	752.8	29.66	753.4	49.1	9.5	67	ese.	53	23.7			7					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.69	754 1	30.08	764 0	61.2	16.2	64	s.	1.9	0.8		0	4 k			0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.25	768.3	30.29	769.4	14.0	—10.0		calm	0	0		1 cs	0	sw.		0.030	0.8	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.08	764.0	30.13	765.3	25	— 3.9	62	nw.	18	8.0		0	8 s		w.	0.050	1.3	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.12	765.0	30.19	766.8	17	— 8.3	83	nw.	4	1.8		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.19	766.8	30.40	772 1	12.0	—11.1	94	w.			1		10 s			inap.	inap.	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.13	765.3	30.19	766.8	9.0	—12.8		w.			1	0	0			0.90	22.9	blue sky	H. A. Johnson.
Father Point, Quebec*	30.21	767.3	30.24	768.1	11	—11.7	80	nnw.	15	6.7		0	5 k		nnw.	0.03	0.8	clear	J. McWilliams
Fort Garry, Manitoba*	29.36	745.7	30.37	771.4	—30	—34.4	100	sw.	8	3.6		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.16	766.1	30.23	767.8	23.0	— 5.0	60	nw.	11	4.9			10 s			0.090	2.3	overcast	Prof. Thos. Harrison.
Grand Manan, N. B.	30.15	765.8	30.21	767.3	27	— 2.8	74	n.	16	7.2		8 cs	0	nw.		0.02	0.5	fair	J. Chipman Seeley
Granton, Ontario	29.27	743 4	30.49	774.4	10.6	—11.9	96	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	29.98	761.5	30.11	764.8	34	1.1	89	w.	7	3.1		10 k	0	n.		0.121	3.1	cloudy	Geo. Dickson, B. A.
Hamilton, Ontario	30.02	762 5	30.46	773.7	16.7	— 8.5	93	w.			1	9 ck	0	sw.		0	0	d. clouds	A. Allison.
Kingston, Ontario*	30.09	764 3	30.46	773.7	13	—10.6	66	w.	6	2.7		0	0			inap.	inap.	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.97	761.2	30.01	762.2	27.0	— 2.8	88	nw.	8	3.6			10 n			inap.	inap	overcast	C. H. Rigby.
London, Ontario	29.51	749.5	30.51	774 9	13.3	—10.4	80	calm			0		10 n			1.09	27.7	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.51	698.7	30.11	764.8	—11	—23.9	95	ne.	1	0.4			10 n			0.02	0.5	cloudy	John Ewart.
Minnedosa, N. W. T.	28.03	711 9	30.35	770.9	—32	—35.6	100	nw.	2	0.9		0	2 s		s.	0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	30.18	766.6	30.41	772.4	10	—12.2	83	w.	16	7.2		0	0			0.40	10.2	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.18	766.6	30.43	772 9	— 3.0	—19.4	100	W.				2 k	0			inap.	inap.	d. clouds	A. McCill, M. A.
Parry Sound, Ontario*	29.67	753.6	30.47	773.9	— 6	—21.1	65	calm	0	0		0	0			0.01	0.3	clear	Rev. R. Mosley.
Peterboro, Ontario	29.65	753 1	30.46	773.7	12.7	—10.7	72	W.			1	0	8 k			0	0	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.64	752 8	30.48	774.2	—22	—30.0	100	w.	2	0.9		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.75	755 6	30.52	775 2	13	—10.6	100	w.	7	3.1		10 c	0	w.		inap.	inap.	cloudy	R. Morgan.
Port Stanley, Ontario	29.78	756.4	30.49	774.4	16	— 8.9	80	W.	6	2.7			10 n		w.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	27.02	701 5	30.36	771.1	—34	—36.7		calm	0	0		c	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.91	759 7	30.31	769.9	14	—10.0	91	w.	12	5.4		10 ck	0	w.		0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.91	759.7	30.46	773.7	—19	—28.3	72	w.	3	1.3		0	0			inap.	inap.	clear	W. H. McIntyre.
St. Andrews, N. B.	30.14	765.5	30.20	767.1	25	— 3.9	64	nw.	7	3.1		0?	0?			0.09	2.3	cloudy?	
St. John, N. B	30.04	763.0	30.19	766 8	36.5	2.5	95					3 k	3 k	nw.		0.085	2.2	fair	G. Hutchinson.
St. Pierre, N. F.			29.92	760.0	28.4	— 2.0		W.			2								The Commandant.
Shugeen, Ontario*	29.64	752.8	30.42	772 7	12	—11.1	91	W.	12	5.4			10 s			0.03	0.8	cloudy	
Stratford, Ontario	29.07	738.4	30.49	774.4	10.1	—12.2	75	calm	0	0			10 s			0	0	overcast	W. McBride, M.A.
Sydney, C. B*	29.97	761.2	30.03	762.7	30	— 1.1	77	n.	8	3.6		10 cs	0	w.		0.06	1.5	fair	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
CANADIAN.—Continued.																			
Toronto, Ontario*	30.10	764.5	30.52	775.2	15	— 9.4	80	w.	2	0.9			10 n		w.	inap.	inap.	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.35	745.5	30.52	775.2	12.1	—11.1	90	s.	2	0.9			10 s			0	0	gloomy	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.10	764.5	30.17	766.3	31	— 0.6	74	n.	12	5.4			10 k		n.	0.24	6.1	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	30.16	766.1	30.19	766.8	72.5	22.5	80	ne.				0	7 k			0.300	7.6	raining	I. Garfelt.
Cape Town, The Castle	29.86	758.4			71.0	21.7	57	se.				0	5 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.86	707.6			71	21.7	56									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.91	759.8	29.99	761.7	61.5	16.4	90	sw.			2	8		n.				fair	Samuel Redolez.
Iquique	29.93	760.1	29.95	760.8	69.3	20.7	82	sw.			2	6 c						foggy	Rafael Moreno.
Niebla	29.56	750.8	29.67	753.5	56.3	13.8	86	e.			1		4 n		w.	0	0		Federico Köhling.
Punta Caldera	29.86	758.4	29.95	760.6	66.9	19.4	83	se.			1	5 c		se.				fair	Manuel Tobar.
Punta Corona	29.86	758.5	30.05	763.2				nw.			1		6 n		ne.	0.189	4.8	cloudy	Francisco Alvarado.
Valparaiso	29.85	758.2	29.99	761.7	60.8	16.0	79	w.			1	3 c	3					fair	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.11	764.9	30.74	765.5	43.9	6.6	88	wsw.	5.6	2.5			10			0.004	0.1	covered	M. Marc Dechevrens, S. J.
DANISH.																			
Copenhagen	30.63	777.9	30.67	779.1	36.1	2.3	82	ese.	25	11			10						Oversergent Fischer.
Fanöe	30.57	776.4	30.59	776.9	37.2	2.9	79	e.			6		10						Overloerer Lauridsen.
Godthaab, Greenland	29.32	744.7	29.36	745.8	11.8	—11.2	97	s.			2		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.27	743.5	29.29	744.0	11.1	—11.6		calm			0		10					snowing	
Jacobshavn, Greenland	29.54	750.2	29.58	751.4	—24.5	—31.4		calm			0		3						
Stykkisholm, Iceland	29.83	757.6	29.87	758.7	40.6	4.8	70	se.			6		8						A. O. Thorlacius.
Thorshavn	30.35	770.8	30.37	771.4	43.2	6.2	93	se.	20	9.			10						Overloerer Bergh.
Upernavik, Greenland	29.75	755.7	29.80	756.9	—19.5	—28.6		e.			2		1						
Vestervig	30.54	775.8	30.63	778.1	37.2	2.9	76	e.			4		10						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.96	760.9			61.5	16.4		sw.	2.2	1.0		0	6 k			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.27	743.5	29.94	760.5	41.7	5.4	100	se.			1		10			0	0		M. Labroue, Director.
Alençon, Normal School	29.27	743.5	29.82	757.5	43.7	6.5	91				1		10 kn			0.04	1.	covered	M. Nicot, Director.
Arras, Normal School	29.72	754.9			42.3	5.7	75	e.			4		0			0	0	clear	M. Ungerer, Director.
Avignon, Normal School	29.86	758.4	29.94	760.4	56.8	13.8	67	se.			1				e.	0	0		M. Giraud, Director.
Bar-sur-Seine	29.48	748.7	30.05	763.2	42.3	5.7	60	se.			1		8		se.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.80	756.9	30.08	764.0	40.8	4.9	59	ene.			2		2		ese.	0.339	8.6	slightly cl'dy	M. Frère Eugène Marie.
Besançon, Normal School	29.04	737.5	29.91	759.8	46.4	8	66	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.56	750.8	29.82	757.5	50.2	10.1	73	ese.			1		10			0.020	0.5	covered	M. Rayet, Director.
Bourges, Normal School	29.41	747.1	29.97	761.3	46.4	8	86	e.			2				e.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.65	753.2	29.90	759.4	51.1	10.6	80	ese.			2		4		ese.	0	0		M. de Kermarrec, Dir.
Caen, Normal School	29.89	759.2	29.97	761.1	42.8	6	88	e.			1		10			0	0	foggy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.75	755.6	30.08	763.9	43.0	6.1	70	ese.			6		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.64	752.8	30.17	766.4	40.3	4.6	90	se.			1		0			0	0	clear	M. Noël, Director.
Clermont-Ferrand Obs'y	28.55	725.1	29.91	759.7	50.4	10.2	72	se.			1		10			0.630	16.0		M. Allnard, Director.
Cluny, Normal School	29.11	739.3	29.98	761.4	41.9	5.5	81	ne.			1		10	nne.		0	0	covered	M. de Villemontée, Dir.
Commercy, Normal School	29.21	742.0	30.12	765.1	37.4	3	60	ene.			6		2 k	ene.	ene.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.37	695.3	29.94	760.4	45.5	7.5	75	calm			0		7 n		nw.	0	0		M. Jarach, Director.
Grénasque, du Rhone	28.80	731.4	29.93	760.2	53.1	11.7	80	s.			1		9		se.	0.55	14.		M. Kina, Director.
Grenoble, Normal School	29.16	740.7	29.94	760.4	48.2	9.0	76	e.			1		kn			0	0		M. Ablard, Director.
Guéret, Normal School	28.34	719.8	29.91	759.6	48.2	9.0	95	sw.			1		10 n		nw.	0	0	covered	M. Delorme, Dir.
Lescar, Normal School	29.43	747.4	29.99	761.7	60.6	15.9	44	ese.			2		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.76	756.0	29.87	758.6	49.3	9.6	69	e.			6		8	ne.	e.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.89	733.8	29.98	761.4	40.8	4.9	94	nw.			1					0.224	5.7	foggy	M. André, Director.
Mans, Normal School	29.67	753.5	29.98	761.5	43.7	6.5		sse.			4		10			0.016	0.4	covered	M. Richard, Director.
Marseille, Observatory	29.64	752.9	29.91	759.7	59.0	15.0	58	se.			1		5		sse.	0	0		M. Stephan, Director.
Montlouis	24.65	626.1	29.49	749.1	48.2	9.0	36	sw.	18.6	8.3			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.77	756.1	29.88	758.9	55.0	12.8	79	ne.			2		5			0.083	2.1	cloudy	M. Galzin, Director.
Nancy, Normal School	29.32	744.8	30.13	765.3	38.5	3.6	44	nne.			2	ck	n		ne.	0	0		M. Hasse, Director.
Nantes, Observatory	29.77	756.2	29.93	760.3	48.4	9.1	79	ese.			1–4		10 n;kn		ese.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.81	757.1	29.92	759.9	54.0	12.2	64	se.	5.6	2.5			10		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.06	534.9			34.2	1.2		wsw.			2		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.89	733.8	29.97	761.2	50.5	10.3	72	s.			1	c			s.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	24.98	634.6			32.0	0.0	100	se.			4		10			0.720	18.3		M. Allnard.
Rochefort, Naval Obs'y	29.83	757.6	29.86	758.4	53.6	12.0	67	e.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.64	752.8	29.86	758.4	49.6	9.8	72	e.			1					0	0		M. Brotier, Director.
Rodez, Normal School	27.75	704.8	29.90	759.5	51.8	11.0		w.			2		10 n		w.	0.12	3.	covered	M. Seger, Director.
Rouen, Normal School	30.02	762.5	30.07	763.7	41.4	5.2	69	ne.			4		5	ne.		0.004	0.1	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.88	759.0	30.05	763.2	43.9	6.6	66	e.			2				e.	0.252	6.4		M. Renou, Director.
Toulouse, Observatory	29.16	740.6	29.88	758.9	53.6	12.0	73	se.			2		2	nw.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.76	755.9	29.94	760.5	48.2	9.0	86	ne.			1		10		sw.	0.075	1.9	covered	M. de Tastes.
Versailles, Observatory	29.54	750.2	30.03	762.7	40.6	4.8	66	ne.			4		0			0	0	clear	Dr. A. Bergny, Director.
Sub-series.																			
St. Martin du Hinx	29.66	753.4	29.81	757.2	55.9	13.3	57	ne.	9.8	4.4		7 ck				0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.66	727.9	30.18	766.6	31.6	— 0.2	79	ne.			4		10	ne.		0.020	0.5		Prof. Jnedt.
Bamberg	29.34	745.2	30.19	766.8	36.0	2.2	61	e.			3		6 k		e.	0	0		Prof. Dr. Hoh.
Berlin	30.33	770.4	30.48	774.3	37.8	3.2	71	e.			3		9			0	0		Meteorological Institute
Breslau	29.96	761.0	30.50	774.7	34.0	1.1	79	e.			3		10			0.008	0.2		Royal University Obs'y
Carlsruhe	29.68	753.8	30.15	765.9	37.9	3.3	55	ne.			4		10	ne.		0.055	1.4		Albert Senz.
Cassel	29.59	751.5	30.30	769.6	36.5	2.5	65	ne.			6		8	ne.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.84	757.8	30.22	767.5	39.2	4.0	53	e.			3		9			0	0		Physical Society.
Friedrichshafen	28.59	726.1	30.07	763.7	33.1	0.6	75	ne.			6		10	ne.		0.327	8.3		Wilhelm, Chief Tel.
Hamburg	30.43	773.0	30.52	775.3	37.0	2.8	75	e.			3		10			0	0	light fog	E. Freiter.
Kiel	30.52	775.3	30.54	775.7	38.1	3.4	60	e.			4		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.95	760.7	30.39	771.9	37.9	3.3	61	ene.			4		2	e.		0	0		H. Leppig, Asst.
Magdeburg	30.24	768.0	30.44	773.1	38.8	3.8	67	e.			4		10			0	0		Weather Observatory.
Memel	30.69	779.6	30.74	780.8	34.9	1.6	87	ne.			2		10						Issermann.
Munich	28.17	715.6	30.04	762.9	31.1	— 0.5	88	se.			2		10	e.		*0.016	0.4	light snow	Central Station.
Neufahrwasser	30.69	779.5	30.71	779.9	33.8	1.0	83	e.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.62	752.3	30.15	765.8	38.7	3.7	60	nw.			2		10			0	0		Prof. Dicknether.
Stuttgart	29.13	739.8	30.06	763.5	35.2	1.8	67	n.			2		10			0.083	2.1		Prof. Dr. Schoder.
Wustrow	30.54	775.8	30.57	776.4	38.5	3.6	70	e			3		5 k			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.75	755.6	30.15	765.7	45.7	7.6		n.			1.5	0	8			0.209	5.3		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.86	758.5	29.92	759.8	72.7	22.6	52	sw.	12.0	5.4			9			0	0	d. clouds	
Deesa	29.41	747.0	29.88	759.0	82.8	28.2	11	nw.	7.0	3.1			8	wnw.	wnw.	0	0	d. clouds	
Bombay	29.87	758.8	29.91	759.8	75.7	24.3	66	wnw.	12.0	5.4			0			0	0	blue sky	
Poona, Yarrowda	28.01	711.3	29.86	758.5	79.1	26.2	17	wnw.	12.0	5.4			0			0	0	blue sky	
Belgaum	27.31	693.6	29.84	758.0	76.8	24.9	43	wsw.	7.0	3.1			3	w.	s.	0.01	0.3	d. clouds	
Lahore	29.17	740.8	29.94	760.4	65.2	18.4	33	s.	2.0	0.9			8			0	0	d. clouds	
Roorkee	28.96	735.6	29.88	758.9	69.7	20.9	26	w.					10	w.		0	0	overcast	
Agra	29.33	745.0	29.91	759.6	74.7	23.7	23	nw	2.0	0.9			0			0	0	blue sky	
Nagpur	28.80	731.5	29.85	758.1	79.2	26.2	24	calm	0	0			4	w.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.54	725.0	29.92	759.9	73.6	23.1	25	calm	0	0			0			0	0	blue sky	
Lucknow	29.48	748.9	29.87	758.6	72.2	22.3	25	wnw	5.0	2.2			0			0	0	blue sky	
Allahabad	29.56	750.9	29.88	759.0	73.0	22.8	35	nw.	2.0	0.9			0			0	0	blue sky	
Patna	29.66	753.3	29.85	758.2	71.5	21.9	45	wsw.	2.9	1.3			2	wsw.	wsw.	0	0		
Hazaribagh	27.83	706.8	29.87	758.8	68.4	20.2	22	w.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.79	756.6	29.87	758.7	77.0	25.0	63	se.	2.0	0.9			4			0.47	11.9	d. clouds	
Calcutta, Alipore	29.87	758.6	29.89	759.2	72.0	22.2	75	n.	4.0	1.8			0			0	0	blue sky	
Dhubri	29.75	755.7	29.88	758.8	68.4	20.2	65	sw.	4.4	2.0			0			0	0	blue sky	
Chittagong	29.85	758.1	29.94	760.5	70.3	21.3	80	s.	6.8	3.0			5			0	0	d. clouds	
Sibsagar	29.58	751.3	29.93	760.3	58.9	14.9	90	ne.	1.0	0.4			8	w.	w.	0.05	1.3	d. clouds	
Jeypore	28.46	722.8	29.93	760.1	71.7	22.1	25	nnw.	4.0	1.8			2	n.		0	0	blue sky	
Zanzibar	29.88	758.9	29.90	759.4	84.7	29.3	68	wnw.	2.7	1.2			2	se.		0	0	d. clouds	
Bellary	28.35	720.1			88.0	31.1	32	sw.	6	2.7		2 c	0			0	0	d. clouds	
Trichinopoly	29.58	751.3			90.7	32.6	36	ne.	0.2	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.75	755.7	30.18	766.5	43.0	6.1	53	e.	15.0	6.7			10			0	0		Prof. Giovanni Olodig.
Milan	29.58	751.2	30.11	764.9	41.5	5.3	80	ne.	8.7	3.9			10	se.		0	0		Prof. G. V. Schiapparelli
Padua	30.02	762.6	30.14	765.5	39.7	4.3	75	ne.	18.1	8.1			10			0.110	2.8		Prof. Dott. Lorenzoni.
Moncalieri	29.17	740.9	30.11	764.8	43.0	6.1	94	nw.	3.1	1.4			10			0.083	2.1		Prof. F. F. Denza.
Genoa	29.78	756.3	29.97	761.3	48.9	9.4	61	n.	5.6	2.5			10	s.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.00	762.0	30.05	763.3	46.4	8.0	80	se.	18.6	8.3			10	e.		0.016	0.4		Prof. Luigi Guidi.
Florence	29.71	754.6	29.97	761.3	49.6	9.8	56	ne.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.82	757.4	29.89	759.1	50.7	10.4	52	ne.	5.6	2.5			10	ene.		0	0		Prof. P. Monte.
Rome	29.76	755.9	29.94	760.4	46.0	7.8	83	nne.	6.9	3.1			10			0.902	22.9		Prof. P. Tacchini.
Lecce	29.83	757.7	30.09	764.3	51.8	11.0	59	ese.	7.4	3.3			7	se.		0	0		Prof. C. de Giorgi.
Cosenza	29.18	741.2	30.10	764.5	48.2	9.0	73	wsw.	8.7	3.9			4	w.		0.150	3.8		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.75	755.7	30.01	762.2	61.0	16.1	57	wsw.	11.9	5.3			8	wnw.		0	0		Prof. G. Caccialore
Syracuse	30.01	762.3	30.06	763.4	56.5	13.6	64	e.	5.6	2.5			10	se.		0.039	1.0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.48	748.7	30.01	762.3	50.0	10.0	72	n.	3.1	1.4			10	se.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.99	761.6	30.02	762.5	33.4	0.8	78	nw.			6		10 ks			0.020	0.5	cloudy	H. Hattori.
Awomori	29.89	759.2	29.93	760.2	29.8	— 1.2	61	sw.	19.7	8.8			10ks;s			0.018	0.4	overcast	K. Ogawa.
Hakodate	29.87	758.6	29.88	758.9	30.0	— 1.1	62	wnw.	27.0	12.1		0	6 k			0	0	cloudy	Y. Souma.
Hamamatsu	29.97	761.2	30.07	763.7	35.3	1.8	66	w.			4	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.15	765.7	30.16	766.1	35.9	2.2	86	n.	0.9	0.4		2 ck	0	w.		0	0	clear	Y. Okamoto.
Kagoshima	30.16	766.0	30.17	766.3	39.0	4.4	85	calm			0	0	0			0.425	10.8	clear	
Kanazawa	30.05	763.4	30.16	766.1	33.5	0.8	65	ese.	8.5	3.8		0	2 s			0	0	fair	S. Endo.
Kioto	30.00	762.0	30.17	766.4	30.6	— 0.8	79	nw.	2.5	1.1		0	0			0	0	clear	M. Tojima.
Kochi	30.15	765.8	30.17	766.3	39.1	3.9	76	nnw.	3.5	1.5		0	0			0.010	0.2	clear	K. Kusunose.
Miasaka	30.16	766.1	30.18	766.6	36.6	2.6	95	ese.			1	0	0			0.079	2.0	clear	K. Masusaki.
Miyako	29.74	755.3	29.85	758.1	31.0	— 0.6	52	sw.	4.0	1.8		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.94	760.5	30.15	765.8	38.5	3.6	84	calm	0	0		0	1 s			0.120	3.0	misty	
Nemuro	29.56	750.8	29.61	752.1	20.0	— 6.7	48	s.	12.0	5.4			10 s			0	0	cloudy	A Shibuya.
Niigata	30.07	763.8	30.11	764.8	35.4	1.9	70	wnw.	11.1	4.9		0	3ks;s		w.	0.010	0.2	fair	Satoo & Tomikawa.
Nobiru	29.90	759.5	29.92	759.9	33.3	0.7	98	nw.	36.4	16.3			10s;ks²			0	0	clear?	Yoelino & Midzushina.
Numadzu	29.99	761.7	30.03	762.7	34.2	1.2	74	ene.			2	0	0			0	0	clear	T. Ohgi.
Osaka	30.15	765.9	30.17	766.3	32.5	0.3	78	ne.	4.7	2.1		0	0			0	0	clear	H. Omura.
Sakai	30.14	765.5	30.15	765.7	32.0	0.0	78	ne.			2	0	0			0.004	0.1	clear	Yamawchi & Sakamoto.
Sapporo	29.74	755.4	29.81	757.2	27.0	— 2.8	98	n.	14.2	6.3		0	3 s			0.050	1.3	clear	S. Kimura.
Shimonoseki	30.01	762.2	30.15	765.9	38.6	3.7	71	ne.			2	0	0			0.063	1.6	clear	S. Sakano.
Wakayama	30.11	764.7	30.10	766.1	34.1	1.2	78	calm	0	0		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.82	757.4	30.01	762.2	81.5	27.5	68	ene.	18.5	8.3		1cs;c	3k;n		ese.	0.16	4.1	fair	The Staff.
MEXICAN.																			
Leon	24.34	618.2	30.17	766.3	47.3	8.5	74	calm	0	0		0	0			0	0	clear	M. Leal & M. Pina
Mazatlan	29.80	758.4	30.12	765.1	64.5	18.1	86	e.	5.3	2.3			10 n		w.	0	0	covered	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.22	767.6	30.22	767.6	41.0	5.0		ese.			5					0	0		
Groningen	30.42	772.7	30.48	774.1	37.8	3.2		s.								0	0		
Helder	30.36	771.1	30.36	771.1	37.4	3.0		e.			4					0	0		
Hellevoetsluis	30.26	768.7	30.26	768.7	47.1	8.4	60	ene.			4					0	0		
Utrecht	30.28	769.2	30.34	770.6	39.9	4.4	54	e.			4		5			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.86	758.4			76.6	24.8	92	wnw.	1.5	0.7			10			0.315	8.0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.60	777.1	30.66	778.7	38.8	3.8	64	w.	2	1			0			0	0		
Brono	30.65	778.4	30.69	779.4	41.0	5.0	69	sse.			2		8			0	0		
Christiania	30.67	778.9	30.82	782.9	34.5	1.4	78	wsw.	0	0			10			0	0		
Gjæsvær	30.29	769.3	30.31	769.9	38.5	3.6		w.			9		10			0.173	4.4		
Lodingen	30.49	774.5	30.54	775.7	38.5	3.6	90	sw.			2		10			0.311	7.9		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.78	756.4	29.87	758.7	58.1	14.5	53	w.	7.4	3.3			10			0.453	11.5		Capt. D. A. de Cunha.
Lisbon, Observatory	29.69	754.0	30.02	762.6	52.3	11.3	95	ssw.	3.1	1.4			10			0.622	15.8		The Staff.
Ponta Delgada, Azores	29.80	756.8	29.87	758.6	50.7	10.4	62	nnw.	12.5	5.6			3			0.421	10.7		
Saint Paul de Loanda																			
St. Vincent, Cape Verd Ids.	30.03	762.8	30.07	763.7	67.8	19.9	70	nne.			5		3			0	0		
San Salvador, Congo	28.04	712.3	29.85	758.1	85.1	29.5	61	w.			1		7			0	0		
Serra da Estrella	25.01	635.2	29.82	757.4	30.3	— 2.4	98	ssw.	8.7	3.9			10			0.528	13.4	foggy	
RUSSIAN.																			
Akmolinski	28.87	733.4	30.06	763.5	6.6	—14.1	96	wnw.	4	2		0	8 n			0.004	0.1		Major K. Lasarew.
Archangel	30.39	771.8	30.41	772.3	28.9	— 1.7	90	sw.	9	4			10			blank	blank		Capt. Sseliwerstow
Ashurada	30.11	764.7	30.01	762.3	48.2	9.0	84	nne.	7	3			10 n			blank	blank		
Astrakhan	30.28	769.1	30.20	767.0	19.8	— 6.8	78	ne.	13	6			10			0.031	0.8		Capt. Wisganow.
Baku	30.10	764.6	30.00	763.4	38.5	3.6	69	n.	18	8		0	7 kn			0	0		
Barnaul	29.43	747.4	29.97	761.1	12.0	—11.1	77	sw.	13	6			10			0.087	2.2		Meteorological Office.
Bielosersk	30.16	766.1	30.67	778.9	24.3	— 4.3	98	calm	0	0			10 s			0	0		
Dorpat	30.54	775.8	30.81	782.5	25.7	— 3.5	95	calm	0	0			10 n			0.008	0.2		Observatory.
Ekaterinburg	29.28	743.7	30.34	770.7	8.1	—13.3	76	nw.	9	4		0	0			0	0		Meteorological Obs'y
Elissawetgrad	30.01	762.3	30.50	774.7	23.0	— 5.0	74	e.	9	4			10 s;n			0.008	0.2		
Kasan	30.27	768.8	30.56	776.3	17.4	— 8.1	85	n.	2	1			0			blank	blank		Observatory.
Kem	30.48	774.2	30.53	775.5	31.1	— 0.5	85	w.	13	6			10			0	0	h'vy clouds	
Kertch	30.21	767.2	30.23	767.8	24.3	— 4.3		ne.	9	4			10 n			0	0		Lagorio & Sastyrea
Kieff	29.85	758.3	30.54	775.8	23.0	— 5.0	79	ne.	7	3			10 n			0.004	0.1	snowing	Observatory.
Koslov	29.90	760.9	30.51	774.9	17.4	— 8.1	57	se.	18	8			0			0	0		
Lgov	29.98	761.4	30.61	777.4	26.4	— 3.1	69	ne.	16	7			8			inap.	inap.	light snow	R. I. Ssaweljew, Engin'r.
Libau	30.78	78:.8	30.80	782.4	32.7	0.4	92	ene.	4	2			10			0	0		F. Quass
Lugan	30.13	765.4	30.35	771.0	19.8	— 6.8	68	nne.	13	6			10			0.004	0.1		Meteorological Obs'y
Moscow	30.15	765.7	30.67	778.9	25.5	— 3.6	66	nne.	4	2			10 s			0	0		Meteorological Obs'y
Nertschinsk	27.62	701.5	30.13	765.3	2.8	—16.2	85	nnw.	7	3			6			0.020	0.5		
Nikolaiev	30.35	770.8	30.42	772.6	27.3	— 2.6	72	ne.	13	6			10 n			0	0	light clouds	Capt. Kurdakow.

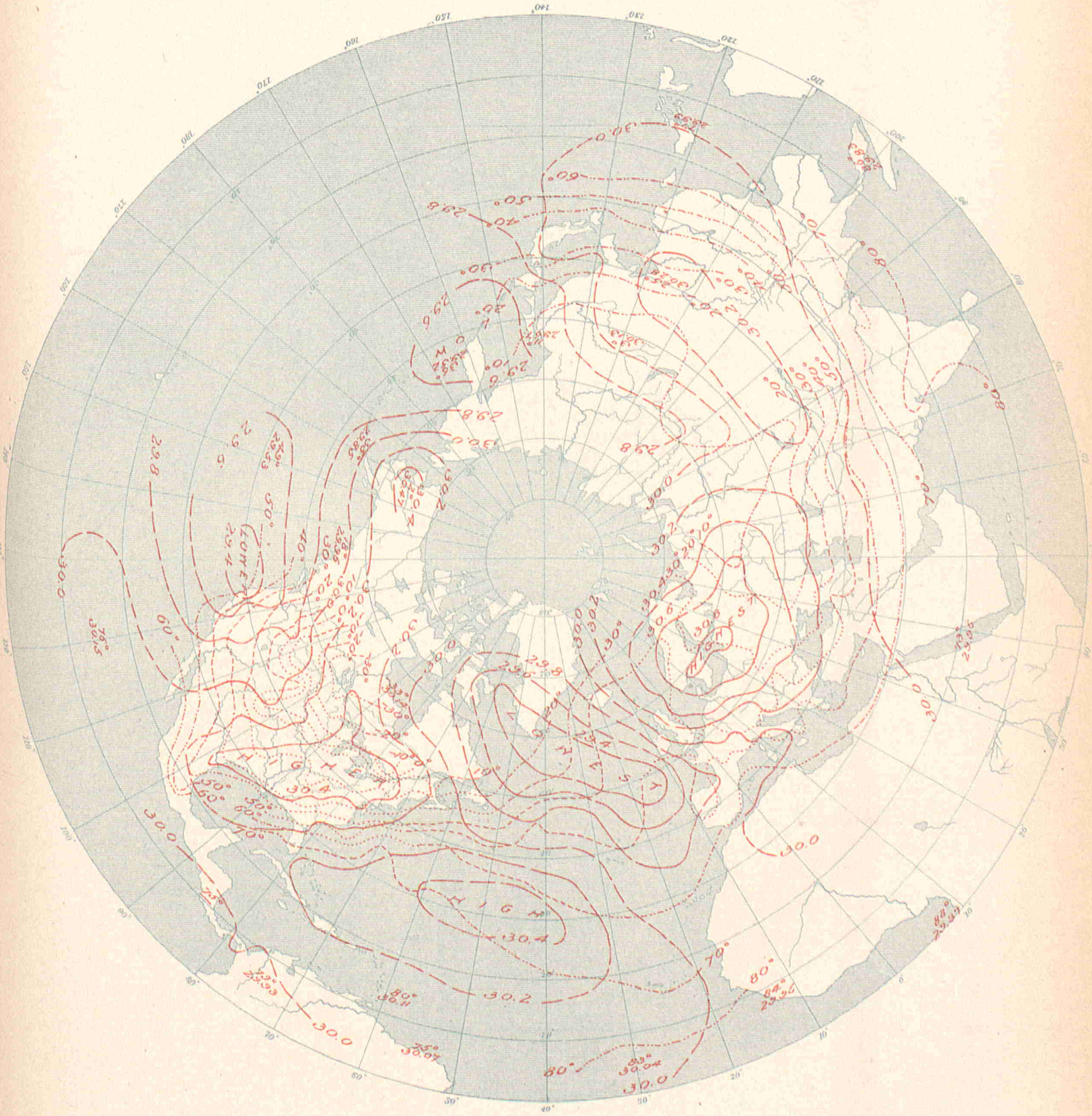
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Nikolnievsk-on-the-Amoor.	29.58	751.4	29.67	753.6	10.9	—11.7	69	w.	13	6	.....	.....	10 n	.....	.....	.....	.....	light snow..	Iwanow.
Pekin, China	30.13	765.4	30.28	769.0	25.2	— 3.8	42	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	**Siang.**
Petro-Alexandrovsk	29.76	755.9	30.13	765.3	36.1	2.3	50	ne.	2	1	.....	.....	4	.....	.....	.....	.....	.....	**Walter.**
Petrozavodsk	30.43	772.8	30.64	778.2	26.2	— 3.2	87	wnw.	11	5	.....	.....	10	.....	.....	0	0	light clouds	Dr. Bergmann.
Pinsk	30.08	763.9	30.61	777.4	30.2	— 1.0	94	e.	4	2	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.05	763.3	30.08	764.1	40.5	4.7	90	s.	7	3	.....	.....	10 n	.....	.....	0.122	3.1	raining	
St. Petersburg	30.72	780.2	30.74	780.8	25.3	— 3.7	95	nw.	9	4	.....	.....	10 n	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.52	699.1	30.02	762.5	47.5	8.6	32	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	**Dresch.**
Semipalatinsk	29.46	748.3	30.18	766.5	12.4	—10.9	90	w.	7	3	.....	.....	10	.....	.....	0.012	0.3	.....	Major Lasarew
Sevastopol	30.00	762.1	30.23	767.8	30.7	— 0.7	71	ne.	27	12	.....	0	7 s	.....	.....	0	0	.....	
Staroi Bykhov	30.07	763.7	30.67	778.9	27.3	— 2.6	74	ne.	9	4	.....	.....	10	.....	.....	0	0	.....	**Carl Hagen.**
Tashkend, Laboratory	28.40	721.4	30.13	765.4	38.8	3.8	60	n.	7	3	.....	.....	0	.....	.....	.....	.....	.....	Teren, A. M.
Tiflis	28.62	725.9	30.10	764.5	35.1	1.7	82	calm	0	0	.....	.....	10	.....	.....	0.220	5.6	snowing	Physical Observatory.
Vernoe	27.52	698.9	30.25	768.4	10.4	—12.0	78	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	**Sariono.**
Viatka	29.13?	739.9?	29.82?	757.4?	4.6	—15.2	74	w.	2	1	.....	.....	9	.....	.....	0	0	.....	
Vladivostock	29.82	757.4	29.89	759.1	18.9	— 7.3	90	ne.	22	10	.....	.....	10 n	.....	.....	0.059	1.5	.....	
Warsaw	30.17	766.2	30.62	777.7	31.3	— 0.4	81	e.	11	5	.....	.....	10 n	.....	.....	.....	.....	heavy clouds	Astronomical Obs'y.
Yeniseisk	29.48	748.8	29.79	756.6	15.8	— 9.0	85	sw.	2	1	.....	.....	8	.....	.....	0.028	0.7	snowing	M. O. Marks.
Sub-series.																			
Petrowsky Academy	30.01	762.2	30.54	775.7	24.0	— 4.4	65	nne.	17.3	7.7	.....	.....	10 ks	.....	n.	0	0	cloudy	**Bachmetieff.**
Spanish.																			
Barcelona, Met. Obs'y	29.76	755.9	29.87	758.7	61.0	16.1	74	wsw.	.....	.....	.....	.....	9 kn	.....	.....	0	0	.....	B. J. Elin.
Bilbao, Met. Obs'y	29.69	754.0	29.74	755.5	65.1	18.4	42	se.	3.8	1.7	.....	.....	10	.....	.....	0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.87	682.6	29.84	757.9	52.3	11.3	62	s.	6.9	3.1	.....	0	6	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.66	702.5	29.87	758.8	56.3	13.5	68	se.	3.8	1.7	.....	0	5	.....	.....	0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.79	756.6	29.91	759.8	63.5	17.5	73	e.	1.6	0.7	.....	3	6	sw.	.....	0	0	almost cov'd	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.79	731.3	29.69	754.1	48.7	9.3	78	se.	6.9	3.1	.....	.....	10	.....	.....	0.240	6.1	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.09	764.2	30.15	765.8	71.5	21.9	92	s.	0.9	0.4	.....	0	3 k	.....	s.	0.34	8.6	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.93	760.3	29.99	761.8	76.8	24.9	79	se	8.8	3.9	.....	0	k	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	29.83	757.7	29.93	760.2	61.7	16.5	73	se.	17.0	7.6	.....	.....	10	.....	se.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.10	764.5	30.19	766.8	74.5	23.6	87	se.	2.5	1.1	.....	5 c	4 kn	e.	e.	0.008	0.2	d. clouds	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.60	777.2	30.64	778.2	30.0	— 1.1	100	wsw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Umea	30.60	777.3	30.65	778.6	31.6	— 0.2	96	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Hernosand	30.54	775.8	30.60	777.1	28.0	— 2.2	92	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	
Stockholm	30.63	778.1	30.81	782.6	33.6	0.9	87	w.	.....	.....	2	.....	10	.....	.....	0.020	0.5	.....	
Wisby	30.68	779.2	30.74	780.7	34.9	1.6	85	se.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.71	780.0	30.80	782.2	32.7	0.4	90	wsw.	6.9	3.1	.....	.....	10	.....	.....	0	0	foggy	H. H. Hildebrandesson
Swiss.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.19	766.9	44.1	6.7	58	ene.	16	7.0	.....	.....	9	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.14	765.5	52.7	11.5	.....	nw.	.....	.....	2	.....	5	.....	.....	0	0	½ covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.02	762.4	55.8	13.2	57	nw.	.....	.....	1	.....	2 n	.....	sw.	0.017	0.4	.....	F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.33	770.4	30.42	772.7	23	— 5.0	66	nw.	8	3.6	.....	10 cs	0	nw.	.....	0.35	8.9	cloudy	J. O. Barnes.
Alpena, Michigan	29.71	754.6	30.42	772.7	2.8	—16.2	72	nw.	1	0.4	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.86	631.4	29.96	761.0	32.1	0.1	90	ne.	1	0.4	.....	.....	10 n	.....	.....	inap.	inap.	light snow	J. B. Turton.
Assinnaboine, Ft., Montana	26.93	684.0	29.97	761.2	—10.5	—23.6	100	e.	9	4.0	.....	0	0	.....	.....	0.02	0.5	clear	F. Newman.
Atlanta, Georgia	29.10	739.1	30.32	770.1	27.2	— 2.7	75	nw.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	S. W. Beall.
Atlantic City, New Jersey	30.33	770.4	30.31	770.6	26.0	— 3.3	64	n.	13	5.8	.....	.....	10 n	.....	.....	0.11	2.8	light snow	B. A. Blundon.
Augusta, Georgia	30.10	764.5	30.30	769.6	45	7.2	80	w.	9	4.0	.....	10 ck	0	sw.	.....	0.48	12.2	cloudy	W. J. Evans.
Baltimore, Maryland	30.36	771.1	30.41	772.4	31	— 0.6	52	n.	8	3.6	.....	.....	10 s	.....	n.	0.19	4.8	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.31	769.9	30.33	770.4	26.4	— 3.1	68	n.	17	7.6	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	F. L. Johnson.
Bennett, Fort, Dakota	28.40	721.3	30.13	765.3	— 8.4	—22.4	82	nw.	1	0.4	.....	5 c	5 s	se.	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	26.90	683.2	29.90	759.4	—14.0	—25.6	84	ne.	4	1.8	.....	2 cs	3 s	nw.	nw.	blank	blank	fair	Thomas Morgan.
Bismarck, Dakota	28.21	716.5	30.19	766.8	—22.0	—30.0	100	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.23	767.8	30.26	768.6	27.5	— 2.5	88	n.	22	9.8	.....	8 cs	0	nw.	.....	0.31	7.9	cloudy	J. T. Eiker.
Boise City, Idaho	26.90	683.2	29.86	758.4	16.4	— 8.7	97	e.	1	0.4	.....	.....	10 n	.....	.....	0.02	0.5	light snow	James Kenealy.
Boston, Massachusetts	30.15	765.8	30.31	769.9	25.0	— 3.9	73	nw.	23	10.3	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	O. B. Cole.
Brownsville, Texas	30.30	769.6	30.36	771.1	33.2	0.7	78	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	John McGlone.
Buffalo, New York	29.71	754.6	30.50	774.7	12.1	—11.1	68	w.	6	2.7	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.89	708.4	30.10	764.5	—14	—25.6	78	ne.	11	4.9	.....	5 cs	0	.....	.....	0	0	fair	A. Schneider.
Cairo, Illinois	30.10	764.5	30.52	775.2	24.5	— 4.2	67	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.34	745.2	29.54	750.3	33.0	0.6	82	n.	5	2.2	.....	8 ck	0	.....	.....	0	0	cloudy	J. H. Young.
Cape Henry, Virginia	30.31	769.9	30.33	770.4	37.5	3.1	72	n.	28	12.5	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	A. K. Alderson.
Cape May, New Jersey	30.37	771.4	30.40	772.1	24.5	— 4.2	80	n.	19	8.5	.....	.....	10 n	.....	.....	0.50	14.2	light snow	W. E. Smith.
Cape Mendocino, California	28.01	720.7	29.31	744.5	50.2	10.1	71	se.	.....	.....	9	.....	10 s	.....	se.	0.11	2.8	cloudy	A. P. Leavitt.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	60.0	15.6	91	n.	14	6.3	.....	.....	10 s	.....	nw.	0.12	3.0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.10	764.5	30.16	766.1	54.0	12.2	67	nw.	8	3.6	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.40	746.7	30.28	769.1	35.3	1.8	84	n.	10	4.5	.....	.....	10 s	.....	n.	0.29	7.4	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.57	751.1	30.43	772.9	25.0	— 3.9	64	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.72	602.5	29.99	761.7	16.2	— 8.8	58	se.	6	2.7	.....	2 c	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.68	753.9	30.43	772.9	16.2	— 8.8	65	sw.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	Wm. Norrington.
Chincoteague, Virginia	30.30	769.6	30.32	770.1	33.7	0.9	73	n.	23	10.3	.....	.....	10 ks	.....	nw.	0.30	7.6	cloudy	C. F. Dickens
Cincinnati, Ohio	29.84	757.9	30.53	775.4	19.7	— 6.8	72	n.	0	2.7	.....	0	0	.....	.....	0	0	clear	L. Dunne.
Cleveland, Ohio	29.71	754.6	30.50	774.7	15.0	— 9.4	83	n.	4	1.8	.....	.....	10 s	.....	ne.	0.01	0.3	cloudy	W. Line.
Columbus, Ohio	29.61	752.1	30.51	774.9	20.2	— 6.6	70	nw	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	F. T. Williams
Concho, Fort, Texas	28.35	720.1	30.37	771.4	25.5	— 3.6	76	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. King.
Custer, Fort, Montana	26.55	674.4	29.91	759.7	—22	—30.0	72	calm	0	0	.....	0	3 s	.....	.....	0	0	clear	W. J. Daily.
Davenport, Iowa	29.71	754.6	30.41	772.4	13.5	—10.3	63	ne.	2	0.9	.....	3 ck	hz.	w.	.....	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.16	639.1	30.12	765.0	33.9	1.1	78	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.00	711.2	29.82	757.4	1	—17.2	81	nw.	1	0.4	.....	0	9 ks	.....	w.	0	0	cloudy	H. S. Blandford.
Deadwood, Dakota	25.10	637.5	30.03	762.7	12.0	—11.1	76	s.	6	2.7	.....	4 cs	0	.....	.....	0	0	fair	G. Kingsbury.
Delaware Breakwater, Del	30.32	770.1	30.34	770.6	29.2	— 1.6	94	n.	25	11.2	.....	.....	10 n; fg	.....	.....	inap.	inap.	light snow	G. A. Martin.
Denver, Colorado	24.41	620.0	29.93	760.2	17.3	— 8.2	56	nw.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.36	745.7	30.33	770.4	4	—15.6	72	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.75	755.6	30.50	774.7	23.1	— 4.9	88	sw.	8	3.6	.....	10 cs	0	sw.	.....	0	0	cloudy	N. B. Conger.
Dodge City, Kansas	27.37	695.2	30.11	764.8	18.5	— 7.5	80	se.	10	4.5	.....	hz.	0	.....	.....	0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.57	753.6	30.43	772.9	— 3.5	—19.7	38	w.	1	0.4	.....	0	2 s	.....	s.	0	0	clear	J. Harvey Smith
Duluth, Minnesota	29.57	751.1	30.38	771.6	—16.0	—20.7	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. R. Brace.
Eastport, Maine	30.12	765.0	30.19	766.8	25.5	— 3.6	70	nw.	14	6.3	.....	3 c	4 s	sw.	nw.	0.10	2.5	fair	D. C. Murphy.
Elliott, Fort, Texas	27.20	693.4	30.20	767.1	16.2	— 8.8	100	s.	7	3.1	.....	0	4 s	.....	.....	0	0	fair	J. C. Rickli.
El Paso, Texas	26.25	666.7	30.13	765.3	39.0	3.9	52	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.74	755.4	30.50	774.7	16.2	— 8.8	83	w.	3	1.3	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	O. A. Shaw.
Escanaba, Michigan	29.68	753.9	30.40	772.1	—13.7	—25.4	62	n.	8	3.6	.....	2 cs	0	nw.	.....	0.01	0.3	clear	L. M. Pindell.
Fort Smith, Arkansas	29.95	760.7	30.45	773.4	20.0	— 6.7	84	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Galveston, Texas	30.38	771.6	30.42	772.7	30.8	— 0.7	73	ne.	17	7.6	.....	0	0	.....	.....	0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.60	751.8	30.31	769.9	21.5	— 5.8	78	sw.	6	2.7	.....	0	7 ks	.....	w.	0.03	0.8	fair	Joseph E. Muelle
Grant, Fort, Arizona	25.08	637.0	29.94	760.5	34.7	1.5	82	se.	5	2.2	.....	.....	10 s	.....	se.	0.01	0.3	cloudy	Chas. A. Read.
Hatteras North Carolina	30.14	765.5	30.15	765.8	43.0	6.1	93	ne.	32	14.3	.....	.....	10 n	.....	ne.	0.45	11.4	light rain	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.46	646.7	29.81	757.2	— 6	—21.1	71	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	S. W. Morrison.
Huron, Dakota	28.61	726.7	30.13	765.3	—10.4	—23.6	100	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.65	753.1	30.50	774.7	18.0	— 7.8	67	n.	2	0.9	.....	10 s	.....	n.	.....	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.38	771.6	30.41	772.4	31.3	— 0.4	71	ne.	19	8.5	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.16	766.1	30.22	767 6	54.8	12.7	84	nw.	10	4.5	.....	10 s	.....	.....	.....	0.12	3.0	cloudy	J. W. Smith.
Keokuk, Iowa	29.72	754.9	30.42	772.7	14.0	—10.0	76	calm	0	0	.....	0	0	.....	.....	Inap.	Inap.	clear	F. Z. Gosewisch.
Key West, Florida	30.14	765.5	30.16	766.1	73	22.8	90	s.	3	1.3	.....	0	5 k	.....	s.	0.25	6.3	fair	A. W. Browne.
Kittyhawk, North Carolina	30.25	768.3	30.27	768.8	38.5	3.6	81	ne.	40	17.9	.....	.....	10 n	.....	.....	0.56	14.2	light rain	Wesley Blake.
Knoxville, Tennessee	29.36	745.7	30.44	773.2	24.8	— 4.0	75	n.	9	4.0	.....	.....	10 s	.....	ne.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.56	750.8	30.40	772.1	— 8	—22.2	58	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.41	747.0	30.36	771.1	15.8	— 9.0	70	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	28.84	732 5	29.71	754.6	18.0	— 7.8	67	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	30.13	765.3	30.46	773.7	26.0	— 3.3	76	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.38	746 2	29.78	756.4	40.0	4.4	94	e.	24	10.7	.....	.....	10 n	.....	.....	0.85	21.6	heavy rain	T. S. Collins.
Louisville, Kentucky	29.91	759 7	30.50	774.7	20.0	— 6.7	70	n.	6	2.7	.....	0	0	.....	.....	Inap.	Inap.	clear	L. M Dey.
Lynchburg, Virginia	29.60	751.8	30.32	770.1	35.0	1.7	79	ne.	3	1.3	.....	.....	10 n	.....	.....	1.61	40.9	light snow	Jno. Healy.
Mackinaw City, Michigan	29.72	754 9	30.42	772.7	0.0	—17.8	68	calm	0	0	.....	0	3 s	.....	.....	0.10	2.5	clear	D. B. Notson.
Macon, Fort, North Carolina	30.19	766.8	30.20	767.1	45.0	7.2	80	sw.	27	12.1	.....	.....	10 s	.....	sw.	0.07	1.8	cloudy	William Daly.
Maginnis, Fort, Montana	25.08	637.0	29.84	757.9	— 9.7	—23.2	58	e.	4	1.8	.....	5 ck	0	.....	.....	0	0	fair	F. Burke.
Marquette, Michigan	29.62	752.3	30.40	772.1	—16.0	—26.7	52	nw.	6	2.7	.....	0	0	.....	.....	Inap.	Inap.	clear	J. Gilligan.
Memphis, Tennessee	30.13	765.3	30.48	774.2	23.0	— 5.0	88	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.62	752.3	30.42	772.7	6.6	—14.1	71	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	S. W. Rhode.
Mobile, Alabama	30.33	770.4	30.37	771.4	31	— 0.6	74	n.	12	5.4	.....	0	0	.....	.....	0.04	1.0	clear	H. U. Jones.
Montgomery, Alabama	30.16	765.1	30.40	772.1	30	— 1.1	77	n.	10	4.5	.....	0	0	.....	.....	0.02	0.5	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.21	741.9	30.31	769.9	—23	—30.6	100	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.64	600.4	30.26	768.6	4.0	—15.6	67	nw.	40	17.9	.....	10 cs	0	nw.	.....	0.90	22.9	cloudy	Edwd. A. Beals.
Nashville, Tennessee	29.89	759.2	30.50	774.7	18.4	— 7.6	77	ne.	7	3.1	.....	0	0	.....	.....	Inap.	Inap.	clear	L. N. Jesunofsky
New Haven, Connecticut	30.17	766 3	30.29	769.4	22.9	— 5.1	62	n.	18	8.0	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	J. H. Sherman.
New London, Connecticut	30.24	768.1	30.29	769.4	26.0	— 3.3	64	nw.	12	5.4	.....	.....	10 s	.....	w.	0.08	2.0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.31	769.9	30.37	771.4	34.8	1.6	69	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	M. Herman.
New York, New York	30.17	766.3	30.36	771.1	26.0	— 3.3	76	nw.	5	2.2	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	H. J. Penrod.
Norfolk, Virginia	30.30	769.6	30.33	770.4	30.0	3.9	65	n.	15	6.7	.....	.....	10 s	.....	w.	0.26	6.6	cloudy	Wm. Davis.
North Platte, Nebraska	26.93	684.0	30.03	762.7	— 5.5	—20.8	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington Ter	29.65	753.1	29.69	754.1	26.0	— 3.3	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.98	736.1	30.25	768.3	13.2	—10.4	72	s.	9	4.0	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	30.12	765.0	30.47	773.9	20.0	— 6.7	84	n.	8	3.6	.....	.....	10 s	.....	nw.	0.09	2.3	cloudy	J. G. Linsley.
Palestine, Texas	29.84	757.9	30.42	772.7	22.4	— 5.3	56	ne.	9	4.0	.....	0	3 s	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.31	769.9	30.34	770.6	34.7	1.5	72	n.	12	5.4	.....	0	0	.....	.....	0.03	0.8	clear	M. McGauran.
Philadelphia, Pa	30.26	768.6	30.37	771.4	25.3	— 3.7	84	n	15	6.7	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.39	441.7	30.11	764.8	— 3	—19.4	58	w.	84	37.6	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.63	752.6	30.49	774.4	19.0	— 7.2	84	nw.	5	2.2	.....	0	0 s	.....	nw.	0.01	0.3	fair	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	—15.2	—26.2	90	ne.	.....	.....	1	3 c	1 k	.....	.....	0	0	fair	G. A. Garden.
Port Huron, Michigan	29.72	754.9	30.45	773.4	12.5	—10.8	80	s.	9	4.0	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	M. H. Perry
Portland, Maine	30.22	767.6	30.27	768.8	27.0	— 2.8	61	ne.	11	4.9	.....	.....	10 s	.....	ne.	0.21	5.3	cloudy	W. W. Eichelberger.
Portland, Oregon	29.49	749.0	29.56	750.8	22.4	— 5.3	86	calm	0	0	.....	.....	10 s	.....	.....	Inap.	Inap.	threatening.	M. L. Hearn.
Prescott, Arizona	24.56	623 8	29.92	760.0	33.0	0.6	74	sw.	2	0.9	.....	.....	10 n	.....	.....	Inap.	Inap.	light snow	N. D. Lane.
Provincetown, Mass	30.22	767.6	30.25	768 3	29.5	— 1.4	64	nw.	14	6.3	.....	.....	10 s	.....	.....	0.35	8.9	cloudy	C. N. Kitchel.
Red Bluff, California	29.27	743.4	29.64	752.8	33	0.6	100	nw.	5	2.2	.....	.....	10 n	.....	.....	0.03	0.8	light snow	J. R. Williams.
Rio Grande City, Texas	30.19	766.8	30.44	773.2	33.2	0.7	52	n.	6	2.7	.....	hz.	0	.....	.....	0	0	dense haze	L. G. Schultz.
Rochester, N. Y	29.78	756.4	30.49	774.4	14	—10.0	79	w.	12	5.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	E. W. McGann.
Roseburg, Oregon	28.92	734.6	29.49	749.0	31.4	— 0.3	90	s.	1	0.4	.....	.....	10 n	.....	.....	0.25	6.3	light snow	J. J. Naury.
Sacramento, California	29.51	749.5	29.58	751.3	35.0	1.7	91	n.	9	4.0	.....	.....	10 n	.....	.....	0.60	15.2	light rain	J. A. Barwick
St. Louis, Missouri	29.83	757.7	30.49	774.4	21.4	— 5.9	84	w.	9	4.0	.....	0	8 k.	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.43	772.9	30.47	773.9	2	—16.7	85	ne.	.....	.....	2	0	0	.....	.....	0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.45	748.0	30.38	771.6	—18.0	—27.8	100	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair	P. F Lyons.
St. Vincent, Minnesota	29.34	745.2	30.31	769.9	—31	—35.0	74	s.	4	1.8	.....	3 cs	0	.....	.....	0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.39	644.9	29.95	760.7	15.5	— 9.2	51	s.	3	1.3	.....	.....	10 s	.....	.....	Inap.	Inap.	cloudy	J. Craig.
San Diego, California	29.72	754.9	29.79	756.7	49.3	9.6	93	se.	7	3.1	.....	.....	10 n	.....	.....	0.36	9.1	light rain	F. R. Day.
Sandusky, Ohio	29.79	756.7	30.51	774.7	19	— 7.2	70	w.	2	0.9	.....	.....	10 s	.....	w.	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.33	770.4	30.36	771.1	25.9	— 3.4	64	n.	20	8.9	.....	.....	10 s	.....	.....	0	0	cloudy	V. P. Chappel.
Sanford, Florida	30.10	764 5	30.15	765.8	67.0	19.4	92	nw.	1	0.4	.....	.....	10 ks	.....	nw.	0	0	cloudy	J. B. Marbury
San Francisco, California	29.40	746.7	29.47	748.5	44.5	6.9	87	ne.	6	2.7	.....	.....	10 n	.....	se.	0.98	24.9	light rain	N. Gorom.
Savannah, Georgia	30.09	764.3	30.18	766.6	50	10.0	68	nw.	3	1.3	.....	.....	10 n	.....	sw.	0.07	1.8	light rain	R. M. Geddings.
Shaw, Fort, Montana	26.02	660.9	29.87	758.7	—21	—29.4	85	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.19	766.8	30.42	772.7	24.0	— 4.4	92	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.89	759.2	29.96	761.0	18	— 7.8	60	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. W. Fickett.
Smithville North Carolina	30.18	766.6	30.22	767.6	44.3	6.8	79	n.	18	8.0	.....	.....	10 s	.....	n.	0.42	10.7	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.62	701.5	29.75	755.6	11.0	—11.7	80	calm	0	0	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	D. Moore.
Springfield, Illinois	29.74	755.4	30.47	773.9	15.6	— 9.1	80	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.05	687.1	30.18	766.6	34.0	1.1	82	sw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	29.46	748.3	.....	.....	35.3	1.8	87	s.	2	0.9	.....	.....	6 s	.....	s.	0.12	3.0	fair	R. Connor.
Thomas, Camp, Arizona	27 17	690.1	30.00	762.0	37.2	2.9	91	sw.	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy	R. C. Lord.
Toledo, Ohio	29.76	755.9	30.50	774.7	19	— 7.2	84	s.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	A. Buell.
Unalashka, Alaska	29.83	757.7	29.85	758.2	35	1.7	79	se.	2	0.9	.....	.....	10 s	.....	se.	0.31	7.9	cloudy	Samuel Applegate.
Vicksburg, Mississippi	30.20	767.1	30.47	773.9	25.5	— 3.6	70	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. Dill.
Washington, D. C.	30.29	769.4	30.41	772.4	28.3	— 2.1	84	nw.	9	4.0	.....	.....	10 n	.....	nw.	0.17	4.3	light snow	T. B. Harrison.
West Las Animas, Colorado	25.86	656.8	29.98	761.5	— 2.5	—19.2	100	w.	4	1.8	.....	8 c	0	w.	.....	0	0	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	30.18	766 6	30.24	768.1	44.5	6.9	80	n.	12	5.4	.....	.....	10 s	.....	.....	0.83	21.1	cloudy	L. H. Albrecht.
Yankton, Dakota	28.73	729.7	30.15	765.8	— 4.5	—20.3	48	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	29.83	757.7	29.98	761.5	40.5	4.7	86	ne.	6	2.7	.....	.....	10 s	.....	sw.	Inap.	Inap.	cloudy	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.50	749.3	29.52	749.8	35.5	1.9	87	e.	16	7.2	.....	.....	10 n	.....	.....	0.19	4.8	light rain	George Oberuick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	78	25.6	.....	nw.	.....	.....	1	0	5 k	.....	ne.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	21.98	558.4	.....	.....	53.6	12.0	81	w.	2	1	.....	3ck;cs	0	.....	se.	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.60	751.8	29.76	755.9	—13	—25.0	100	sw.	46	20.6	.....	.....	10 s	.....	sw.	0.14	3.6	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.18	766.0	71.8	22.1	82	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30 06	763.5	30.07	763.8	75	23.9	90	e.	.....	.....	3	.....	.....	e.	e.	1.530	38.9	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.37	740.0	29.93	760.2	79	26.1	89	n.	.....	.....	1	0	9 ks	.....	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	75	23.9	92	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	30.06	763.5	30.14	765.5	—33.0	—36.1	.....	sw.	15	6.7	.....	5 k	5 s	sw.	sw.	0.02	0.5	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.99	761.8	30.00	762.0	78.1	25.6	84	n.	10.5	4.7	.....	0	2 k	.....	n.	0	0	clear	P. Fasiani.
Naos, Bay of Panama	29.97	761.3	30.04	763.0	74.1	23.4	88	n.	.....	.....	4	0	1 k	.....	n.	0	0	clear	Antonio Fabro.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 49° 44′, W. 7° 34′			54	12.2		ese.			5		3		se.	0	0	mod.	se.	clear.
S. S. Alvo, Jacmel, Hayti, W.I*	30.20	767.1	68	20.0		s.			4		7		ssw.	0	0	long	ssw.	fair.
S. S. Alleghany, Gay Head, Mass †	30.24	768.1	30	— 1.1		ne.			2		8		n.	0	0			cloudy.
S. S. Ailsa, Cartagena, U. S C			76.5	24.7	92	e.			1		10		ne.	0	0	sm'h		overcast.
S. S. America, N. 47° –′, W. 28° –′			49	9.4	85	nnw.			6		8		n.	0	0	high	nw.	squally.
S. S. Alps, Kingston, Jamaica, W.I*†	30.15	765.8	78	25.6		n.			1		2		n.	0	0	short		clear.
Schr. Annie R. Lewis. N. 25° 31′, W. 79° 48′ †	30.21	767.3	76	24.4		e.			1		10		sw.	10 h'r	10 h'r	sm'h		cloudy.
S. S. British Crown, N. 46° 54′, W. 24° 07′†	29.46	748.3	45	7.2		wnw.			7		5		nw.	3 h'r	3 h'r	h'vy	nw.	squally.
S. S. Caracas, N. 13° 36′, W. 67° 25′*†	30.11	764.8	79	26.1	76	e.			6		3		ene.	½ h'r	½ h'r	r'gh	ene.	fair.
S. S. City of Washington. Havana, Cuba, W. I			79	26.1		s.			2		5		ene.	0	0	sm'h		fine.
S. S. Canada, (Br) N. 48° 52′, W. 18° 45′†	29.36	745.7	48	8.9	92	w.			6		6	nw.	w.	4 h'r	4 h'r	long	nw.	fair.
S. S. Chalmette, New York City, N. Y			26	— 3.3		nw.			4					0	0			clear.
S. S. Devonia, N. 41° 00′, W. 66° 39′ †	30.13	765.3	41	5.0		nnw.			4		9		nw.	10 h'r	10 h'r	mod.	sw.	overcast.
S. E. J. Spicer, N. 34° 58′, W. 45° 20′	30.50	774.7	64	17.8	94	wsw.			4		10		nnw.	0	0	cross		cloudy
S. S. Frisia, N. 45° 55′ W. 40° 05′			45.5	7.5		s.			6		10		s.	2 h'r	2 h'r	mod.	s.	raining.
S. S. Grecian, N. 53° 04′, W. 25° 00′	29.20	741.7	41	5.0	100	ne.			9		10			5 h'r	5 h'r	high	con.	raining.
S. S. Helvetia, N. 51° 07′ W. 15° 00′	29.29	744.0	49	9.4	93	se.			1		8		wsw.	4 h'r	4 h'r	con.		cloudy.
Bk. Havana, N. 35° 07′ W. 74° 40′					62	var.			4–6		4		var.	0	0	h'vy	n.	d. clouds.
S. S. Iowa, N. 42° 44′, W. 65° 24′			36	2.2		nw.			4		9		nw.	5 h'r	5 h'r	mod	nw.	cloudy.
Schr. Jennie N. Huddell, Delaware Bay †	30.33	770.4	32	0.0		nne.			5		10		n.	2 h'r	2 h'r			snowing.
S. S. Lone Star, N. 37° 20′, W. 74° 45′*†	30.26	768.6	42	5.6		nne.			4		10		n.	6 h'r	6 h'r	r'gh	nne.	hail squ'lls.
S. S. Mentmore, N. 51° 22′. W. 14° 39′						se.			7		10			0	0	h'vy		cloudy.
S. S. Marengo, N. 45° 46′, W. 42° 54′ *†	29.83	757.7	47	8.3		wsw.			6		10			6 h'r	6 h'r	light	w.	raining.
S. S. Orinoco, N. 34° 49′, W 67° 09′			70	21.1		ssw.			4		7		ssw.	0	0	light	var.	fair.
S. S. Ohio, (Am) Liverpool, Eng *†	30.12	765.0	47	8.3	92	e.			2		5		e.	0	0			hazy.
S. S Pennsylvania, N. 50° 35′, W. 16° 32′ †	29.32	744 7	50	10.0	79	sw.			5		6		w.	3 h'r	3 h'r	h'vy	ssw.	fair.
S. S. Rhynland, N. 50° 02′, W. 27° 04′	29.43	747.5	40	4.4	82	nnw.			9		10		nw.	6 h'r	6 h'r	high	nw.	hurricane.
S. S. Sardinian, N. 48° 02′, W. 37° 58′	29.86	758 4	44	6.7		wsw.			4		10		w.	4 h'r	4 h'r	sm'h		overcast.
S. S. Switzerland, N. 43° 36′. W. 54° 32′ *†	29.95	760.7				sw.			2		10		wsw.	8 h'r	8 h'r	mod.	w.	misty.
S. S. Salier, N. 50° 14′, W. 17° 23′*	29.33	745.0				s.			3		10		ssw.	7 h'r	7 h'r	h'vy	sw.	squally.
S. S. Valencia, Curacoa, W.I †	30.07	763.8	80	26.7	85	ene.			4		4		e.	2 h'r	2 h'r			fair.
Schr Adda Doane, Kingston, Jamaica, W.I †	30.16	766.1				calm			0		1		e.	0	0			clear.
Bg, Alcira. N. 11° 48′, W. 71° 06′*	30.16?	766.1?	79	26.1		ene.			4		0			0	0	chop	ene.	dense haze.
S. S. Britannic, N. 47° 22′ W. 35° 48′ *†	29.86	758.4	43	6.1		calm			0		8		w.	0	0	high		gloomy.
S. S. British Prince, N. 47° 02′, W. 30° 54′ †	29.88	758.9	47	8.3		nw.			6		6		nnw.	6 h'r	6 h'r	h'vy	nw.	snow squalls
S. S. Cienfuegos, N. 37° 20′, W. 74° 27′	30.32	770.1	46	7.8		ne.			4		10		w.	0	0	small	n.	cloudy.
Bk. Chas. Stewart, Gibraltar, Mediterranean *†	30.01	762.2				ese.			1		5		se.	0	0	sm'h	w.	fair.
Bk. Cato, N. 38° 37′, W. 31° 18′†	30.06	763.5	57	13.9	94	nnw.			5		3		nnw.	0	0	h'vy	nnw.	clear.
S. S. Donau, N. 46° 01′, W. 39° 48′	29.85	758.2	46.4	8.0		wsw.			6		10			0	0	rg'h	sw.	misty.
S. S. Gallia, N. 40° 30′, W. 68° 11′	30.14	765.5	36	2.2		nw.			6		8		nw.	0	0	mod.	nw.	fair.
S. S Habsburg, N. 40° 22′, W. 70° 30′	30.27	768.8				n.			5		10		n.	0	0	light	sw.	overcast.
S. S. New York, N. 34° 30′, W. 76° 00′ *†	30.20	767.1	64?	17.8?		ne.			7		10		n.	0	0	mod	ne.	cloudy.
S. S. Pavonia, N. 49° 06′, W. 26° 10′	29.55	750.6	45	7.2	76	nw.			7		9		nnw.	5 h'r	5 h'r	h'vy	nw.	squally.
S. Parker M. Whitmore, N. 50° 40′, W. 12° 25′ *†	29.38	746.2	53	11.7		se.			8		10		se.	2 h'r	2 h'r	high	cross	heavy rain.
S. S. Sirius, N. 14° 53′, W. 55° 03′	30.14	765.5				ene.			6		2		ene.	1 h'r	1 h'r	high	ene.	clear.
Bk. Saga, N. 35° 17′, W. 74° 13′ †	30.04?	763.0?	61.5	16.4		var.			5–8		9		var.	19½	hours	6–8	var.	heavy rain.
S. S. Vaderland, N. 47° 04′, W. 32° 15′			40	4.4		n.			6		8		nnw.	20 h'r	20 h'r	high	nnw.	stormy.
S. S. Virginian, N. 42° 34′, W. 66° 00′			32	0.0		nne.			5				nne.	0	0	sm'h		fair.
S. S. Wyoming, N. 40° 42′. W. 68° 37′	30.20	767.1	38	3.3		nne.			4		9		sw.	0	0	long	ssw.	gloomy.
S. S. Wieland, N. 44° 46′, W. 50° 07′			38	3.3		w.			4–5		6		w.	3 h'r	3 h'r	mod.	w.	hazy.
S. S. Westphalia, Hamburg, Germany			39	3.9	91	se.			5		8		e.					cloudy.
S. S. St. Laurent, N. 40° 30′, W. 70° 30′			41.0	5		nnw.			4		10		n.	0	0	sm'h	s.	overcast.
S. S. Crescent City, N. 12° 40′, W. 77° 00′*†	30.01	762.2	75	23.9		ene.			2							1	ne.	fine.
S. S. Reliance, N. 24° 28′ W. 68° 02′			77.5	25.3		ese.			4							sm'h	w.	clear.
U. S. Navy Yard, Portsmouth, N. H*	30.20	767.1	24	— 4.4	74	nw.	7	3.1			10		w.	0.1	3.			cloudy.
U. S. S. Alliance, off San Juan, Porto Rico, W.I	30.21	767.3	73	22.8	85	e.			3		2		e.	light	light	sm'h		clear.
U. S. S. Kearsarge, Naples, Italy	30.00	762.0	52	11.1	73	nne.			1		10							cloudy.
U. S. S. Lancaster, Naples, Italy	30.03	762.7	52	11.1	93	nne.			1		8			0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.24	768.1	26	— 3.3	?	nnw.			4		10					sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn. Italy	29.87	758.7	53	11.7	73	ne.			3		10		ne.			sm'h		cloudy
U. S. S. Swatara, Port au Prince, Hayti, W.I.	30.14	765.5	75	23.9	72	e.			1		2		e.	light	light	sm'h		clear
U. S. S. Tennessee, New Orleans, La	30.37	771.4	43	6.1	75	nnw.	14	6.3			1			0	0			clear
U. S. S. Trenton, Naples, Italy	30.03	762.7	50	10.0	86	nne.			1		10		nne.					cloudy.
U. S. S. Vandalia, Curacoa, W. I	30.07	763.8	77	25.0	77	e.			3		8		e.					fair.
H. M. S. Alexandra, Malta, Mediterranean	30.04	763.0	68?	20.0?	84	ssw.			3		4	ssw.						d. clouds.
H. M. S. Boadicea, Sierra Leone, Senegambia	29.98	761.5	81	27.2	91	wnw.			1		2	wnw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.34	770.6	67	19.4	84	se.			3		3	ssw.						d. clouds.
H. M. S. Himalaya, N. 31° 06′, W. 40° 40′	30.48	774.2	63	17.2	72	nw.			4		9					3	nnw.	d. clouds.
H. M. S. Minotaur, Palermo, Sicily	30.02	762.5	61	16.1	66	wnw.			2		4	wnw.						d. clouds.
H. P. M. S. Douro, St Thomas, Gulf of Guinea	29.87	758.8	87.8	31.0	90	sse.			3		3		se.	0	0	2	se.	d. clouds.
S. S. British Princess, N. 39° 20′ W. 65° 40′ †	30.09	764 3	55	12.8		ne.			5		10			20 h'r	20 h'r	mod.	sw.	heavy rain.
S. S. Prussian, N 47° 49′, W. 30° 00′	29.88	758.9	41	5.0		nw.			6		7		nw.	0	0		nw.	cloudy.
S. S. Scandinavian, Glasgow, Scotland	30.19	766.8	43	6.1		e.			6		5		ese.	0	0			d clouds.
S. S. Alpin, N. 37° 19′, W. 73° 35′ *†	30.20	767.1	56	13.3		ne.			4		10		ne.			mod.	ne.	foggy.
S. S. Dorian, N. 48° 50′, W. 29° 30′			42	5.6		nnw.			6		8		n.	hv'y	hv'y	r'gh.	n.	cloudy.
S. S. Llandaff City, N. 48° 14′, W. 24° 05′ *†	29.50	749.3	45	7.2		nw.			7		8		nnw.	rain	rain	h'vy	nw.	fair
S. S. Wisconsin, N. 49° 00′, W. 32° 20′	29.70	754.4	40	4.4		nw.			6		10		nw.	6 h'r	6 h'r	mod.	nnw.	squally.
S. S. Bohemia, N. 50° 06′, W. 2° 39′						ese.			4		9		se.	0	0	sm'h		hazy.
S. S. Rhaetia, N. 46° 44′ W. 43° 20′	29.74	755.4	46	7.8		wsw.			4–5		10		w.	9 h'r	9 h'r	cross	nw;w	misty.
S. S. Rosse, N. 11° 00′, W. 26° 36′	30.04	763.0	76.5	24.7	73	nne.			3		4		ne.	0	0	mod.	n.	fine.
S. S. Archimede, (It.) Palermo, Sicily			62	16.7		sw.			3		3		sw.	0	0			clear.
S. S. Picqua, N. 41° 40′, W. 40° 20′*†	30.10	764.5	62?	16.7	94	nw.			3				nw.	8 h'r	8 h'r	high	var.	cloudy.
S. S. Ontario, N. 46° 18′, W. 41° 30′			50	10.0		sw.			5		10		s;sw.	3 h'r	3 h'r	h'vy	ne.	misty.
S. S. Denmark, N. 44° 00′, W. 29° 30′†	29.90	759.4	46	7.8	92	nnw.			6		6		nnw.	0	0	h'vy	nnw.	fair.
S. S. England, N. 40° 27′, W. 70° 39′	30.21	767.3				n.			5		0			0	0	mod.	n.	clear.
S. S. Erin, N. 43° 00′, W. 53° 52′			39	3.9		sw.			3		fg		wnw.	6 h'r	6 h'r	sli't	sw.	foggy.
S. S. Leipzig, N. 32° 06′, W. 26° 27′*	29.98	761.5	57.5	14.2	91	wnw.			6		5		nw.	4 h'r	4 h'r	high	nw.	h'vy squalls
S. S. Strassburg, N. 50° 32′, W. 0° 40′	30.08	764.0	42.0	5.6	83	se.			6		10		se.	0	0	5	se.	dense haze.
S. S. City of Augusta, New York, N. Y						wnw.			2		6?		wnw	0	0			clear.?
S. S. Muriel, N. 34° 50′, W. 69° 55′	30.13	765.3	73	22.8		ssw.			4		0?			0	0	r'gh	ssw.	fair?
S. S. Waesland, Antwerp, Belgium			39	3.9		ese.			6		0			0	0			clear.
S. S. Westernland, Jersey City, N. J	30.34	770.6	48?	8.9?	100	nne.			3		6		nw.	0	0			fair.
S. S. W. A. Scholten, Rotterdam, Holland	30.30	769.6	39.7	4.3	90	ese.			3		4		sse.	0	0			fair.
S. S. Zaandam, N 43° 00′, W. 30° 07′			61.5?	16.4?	91	n.			5		5?		n.	9 h'r	9 h'r	h'vy	var	cloudy?
S. S. State of Nevada, N. 43° 59′ W. 52° 45′			42	5.6		wsw.			4		fg		wsw.	light	light	mod.	w.	foggy.
S. S. Saxon, N. 40° 47′, W. 72° 30′			29	— 1.7		nnw.			3		8			0	0			fine.
S. S. Celtic, Liverpool, Eng*†	30.05	763.3	52?	11.1?		sse.			6		8		se.	2 h'r	2 h'r			hazy.
S. S. Lepanto, N. 37° 11′, E. 4° 27′			70	21.1		se.			1		0			0	0	sm'h		clear.
S. S. Romano, Hull, Eng			48	8.9		e.			3		10			6 h'r	6 h'r	sm'h		dense haze.
S. S. Salerno, New York, N. Y †	30.40	772.1	28	— 2.2		nw.			2		10		ne.	0	0			foggy.
S. S. Antonio Lopez, N. 42° 09′, E. 1° 49′	29.90	759.4	57.5	14.2	79	sw.			2		4			0	0	sm'h		fair.
Bgt. Achsah, N. 30° 14′, W. 60° 50′			71	21.7		se.			3		2		se.	0	0	mod.	se.	clear.
S. Armenia, N. 51° 10′?, W. 13° 40′? *	29.36	745.7	50	10.0	93	ssw.			1		10			6 h'r	6 h'r	h'vy	var.	gloomy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Adelaide, N 5° 09′. W. 30° 49′ *†	30.04	763.0	83	28.3		ne.			5		2		ne.	0	0	mod.	nne.	hazy.
S. S. Bracadalle, N. 39° 58′, W. 67° 12′						ene			3		7		ene.	1 h'r	1 h'r	sli't	ne.	showery.
Bk. Benjamin Dickerman, N. 33° 00′, W. 63° 30′*†	30.44	773.2	69	20.6		s.			5		0			0	0	long	sse	clear.
S. Cornelius, N. 39° 19′ W 65° 18′ *†	30.16	766.1	55.6	13.1		nne.			4		10			18 h'r	18 h'r	h'vy	s;sw.	raining.
S. Dora, N. 50° 54′, W. 29° 15′†	29.42	747.3	39.2	4.0		nnw.			6		8		nnw.	0	0	mod.	nw.	cloudy.
S. David Stewart, Barbadoes, W. I.			75	23.9		ene.			5		2		e.	0	0			
Schr. Edith R. Seward, N. 31° 50′, W. 59° 52′ †	30.44	773.2	71	21.7		sse.			1		2		s.	0	0	sm'h	se.	clear.
Bk. Fred W. Carlon, Progreso Roads, Mexico†	30.16	766.1	80	26.7		calm			0		0			0	0	r'gh	nw.	hazy.
Bk. Gloire, N. 24° 13′, W. 65° 31′ *	30.25	768.3	82	27.8		e.			4		4		e.	0	0	short	ese.	clear.
Bk. George Davis, N. 39° 01′, W. 55° 00′*†	30.24	768.1				wsw.			5				sw.	0	0	short	w.	covered.
Bk. Galeon, Grimsby Roads, Eng†	29.24	742.7	40	4.4		ese.			5		10		ese.	0	0			overcast.
S. Hedwig, N. 43° 40′, E. 14° 38′	30.08	764.1	49.8	9.9	79	e.			6		8		e.;w.	9 h'r	9 h'r	2	e.	overcast.
Bk. Hattie G. McFarland, N. 25° 10′, W. 85° 33′†	30.16	766.1	75	23.9		nne.			5		8		ne.	8 h'r	8 h'r	1'gh	nne.	
S. Henry, N. 37° 01′, E. 16° 00′ *	30.11	764.8	55.4	13.0		ese.			2-3		10					3-4	ne.	cloudy.
Bg. John Wesley, Havana, Cuba, W. I						calm			0		3		s.	0	0			clear.
Schr. John L. Thomas, South Hobbies Cays, C. A †	30.04	763.0	77	25.0	82	e.			3		2		ese.	0	0			clear.
Bg. John Welsh, jr., N. 26° 30′, W. 83° 30′†	30.09	764.3				calm			0							sm'h	s.	dense fog.
S. S. Laurel, off Cape Florida, Fla†	30.18	766.6	77	25.0		ne.			1-2		9		se.	sh'rs	sh'rs			cloudy.
Bg. L. F. Munson, N. 28° 03′, W. 60° 32′			72	22.2		se.			4		2		se.	0	0	mod.	se.	clear.
S. S. Madrid, Shields, Eng†	30.31?	769.9?	44	6.7	86	se.			5		10		se.	0	0			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga *†	30.26?	768.6?	72?	22.2?		n.			2					10 h'r	10 h'r	light		cloudy.
Schr. Maggie Abbott, N. 38° 05′, W. 73° 03′ *†	30.25	768.3				n.			6		10			snow	snow	short	s.	stormy.
Schr. Norena, Ponce, Porto Rico, W. I †	30.16	766.1				ene.			4		9		ene.	0	0			
Bk. Orpheus, N. 51° 08′, W. 16° 50′ *	29.27	743.4	50	10.0		s.			3		6 k		w.			long	s.	fair.
Bg. Rising Sun, N. 11° 15′, W. 59° 55′†	30.05	763.3	80	26.7		ene.			5		1		ene.	0	0	long	ene.	clear.
S. S. Radnorshire, Gibraltar, Mediterranean*†	29.85?	758 2?				ese.			5		1		ese.	0	0			fine.
Bk. Sunbeam, N. 40° 00′, W. 71° 58′ *†	30.30	769.6	36	2.2	80	nne.			5		10		nne.	0	0	mod.	ne.	cloudy.
Bgt. Sunlight, N. 34° 30′, W. 64° 00′ †	30.30	769 6				ssw.			5		4		ssw.			mod.	sw.	fair.
S. St. David, N. 8° 19′, W. 34° 12′ *†	30.08	764.0	79.3	26.3	82	nne.			6		7		ne.	1 h'r	1 h'r	long	ne.	hazy.
S. Stephen D. Horton, Antwerp, Belgium †	30.19	766.8				ne.			5		0			0	0			clear.
Bk. Silica, N. 49° 34′, W. 5° 30′ *	29.87	758.7				ese.			6		10		ese.	sh'rs	sh'rs	cross		cloudy.
S. Vincenzo Accame, N. 38° 40′, W. 61° 42′†	30.19	766.8	64.4	18.6		sw.			6		8		sw.	0	0	r'gh	sw.	rainy.
S. S. Maasdam, N. 43° 27′, W 42° 00′ *	29.87	758.7	55.4	13		wsw.			6							mod.		squally.
S. S. Strathleven, N. 48° 37′, W. 22° 42′			44.6	7.0	89	w.			6		8		w.			7	w.	
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.89	759.2	69	20.6	75	nw.			2		0							clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.77	756.1	68	20 0	74	n			2		0							blue sky.
H. M. S. Opal, Simons Bay, Cape Colony*†	30.00	762.0	72	22.2	71	se.			1		3	se.						d. clouds.
H. P. M. S. Rainha de Portugal, Congo river, Guinea.	29.85	758.3	88.3	31.3	63	wnw.			2		4					1		raining.
H. P. M. S. Bengo, S. 4° 07′, E. 3° 38′	29.91	759.8	84.2	29.0	92	wsw:			4		8		wsw.	6 minutes		3	wsw.	threatening
S. S. Hevelius, S. 1° 05′, W. 28° 26′*†	30.05	763.3	80	26.7		sse.			2		4		s.	1 h'r	1 h'r			clear.
Bk. Celestina, S. 15° 07′, W. 33° 39′ *†	30.05	763.3				ne.			3		2		ene.	0	0	mod.	ene.	clear.
S. S. George S. Homer, S. 42° 53′, W. 33° 11′*†	29.82	757.4				wnw.			2		2		nw.	2 h'r	2 h'r	r'gh	var.	clear.
Bk. Godeffroy, S. 2° 39′, W. 32° 36′	29.91	760.5	82.9	28.3	90	se.			3		5 k		se.	rain	rain	mod.	var.	fair.
S. Grecian, S. 41° 55′, W. 36° 39′ †	29.40	746.7	55	12.8	93	ssw.			5		10	n.	sw.	24 h'r	24 h'r	long	ssw.	misty.
Bk. Horace Scudder, Congo river, Guinea*†	30.10	764.5	89	31.7		sw.			2		5		wsw.	0	0			fair.
Bkt. Levanter, Montevideo, Uruguay*	29.90	759.4	69	20.6		nnw.			3		0			0	0	sm'h		clear.
Bk. Winifred, S. 15° 40′, W. 34° 20′ *†	30.10	764.5											ne.	c	0		ene.	
S. Orealla, S. 35° 50′, W. 17° 36′*	30.04	763.0				nne.			3		fg		n.	4 h'r	4 h'r	sm'h		foggy.
District No. 3—North Pacific.																		
U. S. S Alert, N. 28° 18′, E. 131° 36′	30.20	767.1	58	14.4	70	calm			0		5					long	ne.	fair.
U. S. S. Essex, Canton, China	30.03	762.7	63	17.2	83	e.			1		10							overcast.
U. S. S. Hartford, N. 14° 29′, W. 133° 17′	30.00	762.0	78	25.6	95	n			1-3		5		n.	0	0	sm'h	n.	fair.
U. S. S Juniata, N. 31° 02′, E. 122° 09′	30.15	765.8	45	7.2	92	ssw.			3		10		calm	light	light	sm'h	sw.	cloudy.
U. S. S. Monocacy, N. 30° 57′, E. 122° 10′	30.18	766.6	44	6.7	92	ssw.			2		10		calm					cloudy.
U. S. S. Palos, Tientsin, China	30.23	767.8	28	— 2.2		nnw.			5		0							clear.
U. S. S. Ranger, N. 11° 40′, W. 86° 19′	30.09?	764.3?	77	25.0	82	e.			3		2			0	0	light		fair.
H.M.S. Audacious, Victoria harbor, Hong Kong, China	30.01	762.2	63	17.2	83	e.			1		6	e.						d. clouds.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.02	762.5	60	15.6	88	sse.			1		10	calm				1		overcast.
H. M. S. Champion, Shanghai, China	30.16	766.1	49	9.4	78	wnw.			2		10	calm						overcast.
H. M. S. Flying Fish, N. 24° 26′, E. 118° 04′	30.17?	766.3?	57	13.9	88	se.			1		10							raining.
H. M. S. Magpie, N. 52° 24′, E. 100° 20′	29.81	757.7	85.5	29.7	74	sse.			1		3							d. clouds.
H. P. M. S. Tamega, Macao, China	30.08	761.1	62.6	17.0	89	calm			0		10							overcast.
S. S. Newbern, Mazatlan, Mexico*†	30.10	764.5	67	19.4	84	se.			4		7		s.	0	0	small	sw.	fair
S. S. Oceanic, N. 42° 22′, W. 152° 43′	29.53	750.0	49	9.4	85	var.			2		3		sw.	0	0	3	sw.	clear.
S. S. Oregon, N. 40° 44′, W. 124° 35′†	29.46	748.3	48	8.9	78	sse.			5		10		sse.			mod.	s.	threatening.
S. S. Alameda, San Francisco, Cal †	29.47	748.5	45	7.2		e.			3		5		e.	24 h'r	24 h'r			fair.
S. S. Ancon, San Francisco, Cal.	29.42	747.3	46	7.8	84	ese.			5		10		ese.	light	light			overcast.
S. S. City of Chester, Hookton, Cal †	29.38	746.2	49	9.4	71	se.			7		10							rainy.
S. S. Queen of the Pacific, San Francisco, Cal	29.41	747.0	46	7.8	84	ne.			3		4		ne.	18 h'r	18 h'r	sm'h		fair.
S. S State of California, San Francisco, Cal†	29.44	747.8	43	6.1	100	ne.			1		10							raining.
S. S Eureka, N. 48° 25′, W. 123° 23′			31	— 0.6	89	n.			2		8			0	0	sm'h		cloudy.
S. S. Australia, N. 8° 07′, W. 163° 50′	29.96	761.0	79	26.1	95	ne.			5		4		ne.	rain	rain	mod.	ne.	fair.
S. S. City of Rio de Janeiro, Hong Kong, China †	30.05	763.3				ne.			4		5		sw.			light	ne	fair.
S. S. Colima, San Jose, Guatemala †	30.01	762.2	73	22.8	95	nnw.			2		1		calm	0	0	small	sw.	clear.
S. S. Granada, N. 24° 24′, W. 112° 02′†	30.00	762.0	68	20.0	79	s.			3		2		s.	0	0	light	var.	clear.
S. S. San Blas, N. 10° 53′, W. 87° 03′†	29.96	761.0	76	24.4	86	ne.			6		2		ne.	0	0	mod.	ne	clear.
S. Carondelet, N. 31° 54′, E. 135° 43′ *†	30.10	764.5				nnw.			4		2		nnw.	0	0	mod.	nne.	clear.
S. St. Francis, N. 15° 40′, W. 121° 15′ *†	30.15	765.8	76	24.4	82	calm			0		1		n.	0	0	sm'h	n.	clear.
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru *†	30.07	763.8	73	22.8	95	calm			0		10					mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru *	30.00	762.0	72	22.2	100	sse.			1		8		calm			sm'h		cloudy.
H. M. S. Espiegle, S. 45° 45′, E. 171° 01′	29.86	758.4	54	12.2	80	nnw.			4-6		9					1	s.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.07	763.8	62.3	16.8	83	sw.			3		8					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.92	760.0	59	15.0	76	n.			1-3		6							d. clouds.
S. S. Zealandia, S. 34° 02′, E 157° 56′	30.16	766.1	76	24.4	77	w.			5		10		sw.	sh'rs	sh'rs	mod.	nw.	overcast.
S. Ismir, S. 46° 20′, W. 85° 16′ *†	29.72	754.9				wsw.			8		9		wsw.	0	0	h'vy	var.	gloomy.
S. S. Port Phillip, S. 37° 18′, E. 150° 07′	30.02	762 5	66	18.9	89	e.			2							sm'h		hazy
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.92	760.0	64	17.8		sw.			2		6	sw.				3	sw.	
H. M. S. Sylvia, off Sandy Point, Patagonia	29.17	740.9	51	10.6	80	nnw.			1-3		9							squally.
District No. 5—Indian Ocean.																		
U. S. S. Pensacola, Port Elizabeth, Cape Colony	30.02	762.5	67	19.4	95	ne.			1		10		calm	0.07	1.8	mod.	se.	cloudy.
H. M. S. Euryalus, Suakin, Egypt	29.96	761.0	73	22.8	85	ne.			2		3	calm						d. clouds.
H. M. S. Tourmaline, S. 17° 23′, E. 49° 28′	29.99	761.7	85	29.4	92	sse.			2		2					sm'h		d. clouds.

International Chart I. February 15, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 16, 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.88	759.0	77.7	25.4	82	n			8		10			0	0	covered	Roziere.
Algiers			29.92	760.0	69.1	20.6	44	sse.			1		0			0	0	clear	Thève.
La Calle			29.98	761.5	67.6	19.8	74	ese.			2		1			0	0	very fair	Fontéde.
Tunis			30.04	762.9	54.0	12.2	65	ne.			4		2			0	0		Delord.
Geriville					59.0	15.0	21	s.			5		0			0	0	clear	Forfert.
Laghouat			30.11	764.9	66.9	19.4	89	nw.			1		0			0	0	clear	Abraham.
Biskra			30.09	764.2	71.2	21.8	59	e.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.98	761.5	89.2	31.8	27	ene.	16	7.2			10 k			0.006	0.2	squally	Charles Todd, C. M. G.
Hobart Town, Tasmania	30.00	762.0	30.19	766.8	57.8	14.3	83	se.	10	4.5			10		se.	0	0	cloudy	Com. J. Shortt, R.N.
Melbourne, Victoria	30.04	763.0	30.13	765.3	59.2	15.1	82	se.	2	0.9			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.64	752.8	30.21	767.3	39.6	4.2	43	ne.			3		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.61	752.2	30.43	772.9	29.8	— 1.2	76	e.	15.0	6.7			10			0	0		Dr. Wierzbiski
Eperies	29.45	748.0	30.39	771.8	29.1	— 1.6	64	n.			2		10 ks		s.	0	0		Julius Mikolik.
Gratz	28.08	736.2	30.29	769.3	36.7	2.6	58	ese.			2		10			0.146	3.7		Andreas Rospini.
Hermannstadt	28.81	731.8	30.32	770.2	31.5	— 0.3	89	ese.			4		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.72	729.4	30.11	764.9	34.5	1.4	74	e.			3		7			0	0	fair	The Staff.
Lemberg	29.43	747.6	30.50	774.7	24.8	— 4.0	60	se.			4		10			0	0		Dr. T. Stanecki.
Pola	29.97	761.2	30.08	764.1	42.8	6.0	72	ene.			5		6			0.094	2.4		I. R. Hydrographic Office.
Szathmar	29.80	757.0	30.30	769.5	34.0	1.1	65	se.			3		0			0	0		Joseph Midliuszky, S. J
Szegedin	29.97	761.1	30.26	768.6	37.2	2.9	68	calm			0		10			0	0		Karl Stancel.
Trieste	30.04	763.1	30.14	765.6	42.8	6.0	47	ne.			5		8			0	0		Royal Academy.
Vienna	29.58	751.2	30.33	770.4	33.6	0.9	84	se.			2		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.65	727.7	30.10	764.5	33.6	0.9	100	se.			2		3			0	0		
Brussels	29.93	760.2	30.14	765.5	37.6	3.1	84	ese.			2		10		e. e.	0	0		
Furnes	30.08	764.0	30.10	764.5	37.0	2.8	75	e.			2		2			0	0		
Maeseyck	30.06	763.5	30.19	766.7	37.8	3.2	70	e.			1		10			0	0		
British.																			
Aberdeen	30.24	768.1	30.34	770.6	39.0	3.9	79	se.	26	11.6			9			0.030	0.8	overcast	W. Boswell.
Bidston, Liverpool Obs'y			30.07	763.8	37.1	2.8	69	e.	35	15.6			9					overcast	John Hartnup.
Bolton, Sharples	29.56	750.8	30.11	764.8	35.1	1.7	75	ese.	18	8.0			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.75	755.6	30.15	765.8	37.3	2.9	81	se.			4		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.07	763.8	30.10	764.5	80	26.7	74	e.			5		3					d. clouds	Corp'l O. McGregor, A.H.C
Oardington					37.2	2.9	76	se.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	29.91	759.7	30.09	764.3	39.1	3.9	74	e.			3		5					d. clouds	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.59	751.6	29.83	757.7	40.0	4.4	86	se.			6		10					drizzling	The Staff.
Fort Napier, Natal	27.62	701.5	29.93	760.2	72.0	22.2	76	se.			1		10					overcast	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.77	756.1	29.81	757.2	38	3.3	90	se.			4		10			0.31	7.9	raining	Wm. Ryan.
Gibraltar, Mediterranean	29.50?	749.3?	29.57?	751.1?	69.0	20.6	95	e.			4		10					gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.90	759.4	30.08	764.0	38.0	3.3	72	ese.					7					d. clouds	The Staff.
Guernsey	29.56	750.8	29.87	758.7	37.5	3.1	86	ese.			1		10					overcast	A. Collenette, F.R.M.S.
Kew, Observatory	30.03	762.7	30.07	763.8	39.7	4.3	62	ese.	25	11.2			7					d. clouds	The Staff.
Leicester, Museum	29.85	758.2	30.12	765.0	37.6	3.1	74	e.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.92	760.0	64.6	18.1	74	sw.			2		1			0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.21	767.3	30.26	768.6	75.5	24.2	86	se.			1		7					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.82	757.4	30.05	763.3	39.1	3.9	68	ese.			5		7					d. clouds	The Staff.
Plymouth	29.77	756.1	29.84	757.9	42.5	5.8	70	e.			6		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.19	766.8	30.29	769.4	41	5.0	82						3					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.10	764.5	30.17	766.3	39.2	4.0	59	ne.			2		7					snowy	W. H. Lyne.
Sheffield	29.86	758.4	30.16	766.1	36.4	2.4	70	e.			2		10			blank	blank	overcast	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.14	765.5	36.3	2.4	66	e.	20	8.9			10			0	0	overcast	Rev. S. J. Perry.
Strathfield Turgiss					40.1	4.5	69	se.			3.0		6					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.68	753.9	29.71	754.6	47.8	8.8	83	e	10	4.5			10					misty	The Met'r'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.61	752.1	30.00	762.0	61.9	16.6	81	s.	10.6	4.7		0	5 n		s.	0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.60	777.2	30.62	777.7	—13.0	—25.0		calm	0	0		1 cs	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.60	777.2	30.64	778.2	10	—12.2	79	nw.	6	2.7		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.63	778.0	30.70	779.8	—14	—25.6	100	w.	2	0.9		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.42	772.7	30.63	778.0	4.0	—15.6	100	e.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.60	777.2	30.66	778.7	—11.5	—24.2		w.			1	0	0			0.100	2.5	blue sky	H. A. Johnson.
Father Point, Quebec*	30.60	777.2	30.63	778.0	— 9	—22.8	100	s.	3	1.3		0	2 s		calm	0	0	clear	J. McWilliams
Fort Garry, Manitoba*	29.27	743.4	30.25	768.3	—21	—29.4	100	n.	4	1.8		0	5 ks		nw.	0.02	0.5	fair	James Stewart.
Fredericton, N. B	30.68	779.3	30.75	781.0	—12.9	—24.9	100	calm	0	0		0	0			0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	30.67	779.0	30.73	780.5	18	— 7.8	87	n.	10	4.5		2 k	0			0	0	fair	J. Chipman Seeley
Granton, Ontario	29.33	745.0	30.53	775.4	16.5	— 8.6	92	calm	0	0			10 n			0	0	gloomy	Jas. Grant.
Halifax, N. S*	30.55	776.0	30.70	779.8	15	— 9.4	76	w	5	2.2		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	30.11	764.8	30.55	776.0	26.2	— 3.2	87	sw.			1	2 c	0		sw.	0	0	hazy	Geo. Dickson, B. A.
Kingston, Ontario*	30.28	769.1	30.65	778.5	19	— 7.2	87	nw.	1	0.4		8 cs	0		nw.	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.42	772.7	30.40	773.7	14.0	—10.0	100	w.	6	2.7		2 k	0			0	0	blue sky	C. H. Rigby.
London, Ontario	29.52	749.8	30.51	774.9	15.8	— 9.0	90	calm			0		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.59	700.8	30.23	767.8	—17	—27.2	95	ne.	1	0.4			10 n			0.02	0.5	cloudy	John Ewart.
Minnedosa, N. W. T	28.02	711.7	30.29	769.4	—24	—31.1	100	nw.	3	1.3		8 cs	0		sw.	0	0	fair	Rev. J. M. Wellwood
Montreal, Quebec*	30.45	773.4	30.69	779.5	9	—12.8	76	sw.	12	5.4		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.41	772.4	30.68	779.3	— 9.7	—23.2	96	w.				0	7 s			0	0	d clouds	A. McCill, M. A.
Parry Sound, Ontario*	29.76	755.9	30.53	775.4	12	—11.1	70	s.	14	6.3		0	2 ks		sw.	0.03	0.8	fair	Rev. R. Mosley.
Peterboro, Ontario	29.80	756.9	30.60	777.2	18.5	— 7.5	80	ne.			1	5 c	0			0	0	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.36	745.7	30.13	765.3	5	—15.0	76	s.	4	1.8			10 n			0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.78	756.4	30.54	775.7	10	— 8.0	100	n.	5	2.2			10 n			0.01	0.3	cloudy	H. Morgan.
Port Stanley, Ontario	29.79	756.7	30.49	774.4	22	— 5.6	88	e.	12	5.4			10 n		sw.	0.07	1.8	cloudy	M. Payne.
Qu Appelle, N. W. T	27.73	704.3	30.42	772.7	—25	—31.7		calm	0	0		8 cs	0		calm			light snow	Leslie Gordon.
Quebec, Quebec*	30.29	769.4	30.69	779.5	2	—16.7	79	calm	0	0		0	0			0	0	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	30.05	763.3	30.57	776.5	— 4	—20.0	68	se.	2	0.9		hz.	0			0	0	hazy	W. H. McIntyre.
St. Andrews, N. B	30.64	778.2	30.69	779.5	12	—11.1	92	nw.	2	0.9		0	0			0	0	clear	
St. John, N. B	30.54	775.7	30.70	779.8	13.8	—10.1	75	nw.	8	3.6		0	0			0	0	blue sky	G. Hutchinson.
St. Pierre, N. F			30.28	769.0	14.0	—10.0		nw.			4								The Commandant.
Saugeen, Ontario*	29.67	753.6	30.45	773.4	17	— 8.3	96	ne.	24	10.7			10 s			0.03	0.8	cloudy	
Stratford, Ontario	29.13	739.9	30.54	775.7	12.1	—11.1	82	se.	1	0.4			10 s			0	0	overcast	W. McBride, M.A.
Sydney, C. B*	30.49	774.4	30.56	776.2	11	—11.7	66	nw.	15	6.7		0	0			0	0	clear	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	30.14	765.5	30.56	776.2	21	— 6.1	84	se.	6	2.7			10 n			0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.39	746.5	30.56	776.2	13.4	—10.3	93	se.	3	1.3			10 s			0	0	gloomy	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.64	778.2	30.71	780.0	21	— 6.1	64	ne.	1	0.4		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.12	765 0	30.15	765.8	71.5	21.9	80	ne.				0	6 s			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.86	758.4			72.2	22.3	50	se.				0	1 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.82	706.6			80	26.7	43									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.99	761.7	30.07	763.7	62.1	16.7	92	n.			1	10						cloudy	Samuel Redolez.
Iquique	29.93	760.3	29.96	761.0	68.5	20.3	88	nw.			2							foggy	Rafael Moreno.
Niebla	29.56	750.7	29.66	753.4	54.3	12.4	90	nw.			1		4		nw.	0	0	cloudy	Federico Köhling.
Punta Caldera	29.90	759.5	29.99	761.7	63.0	17.2	81	se.			2	8 c	0	se.	se.			fair	Manuel Tobar.
Punta Corona	29.84	757.9	30.02	762.6				w.			3	4 s		sw.		0.016	0.4	cloudy	Francisco Alvarado.
Valparaiso	29.91	759.7	30.05	763 2	63.0	17.2	90	e.			0	2	4 c					fair	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.26	768 5	30.28	769.1	33.8	1.0	73	ne.	2.2	1.0			2			0	0	fair	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.53	775.5	30.58	776 7	34.5	1.4	76	ese.	18	8.			10						Oversergent Fischer.
Fanöe	30.47	773.9	30.49	774.4	34.7	1.5	72	e.			6		10						Overloerer Lauridsen.
Godthaab, Greenland	28.80	731.5	28.84	732.6	25.0	— 3.9	98	nw.			2		10						S. Kleinschmidt.
Ivigtut, Greenland	28.86	733.0	28.88	733.5	21.0	— 6.1		calm			0		10					snowing	
Jacobshavn, Greenland	28.73	729.7	28.78	730.9	32.7	0.4		se.			6		7						
Stykkisholm, Iceland	29.58	751.3	29.62	752.4	39.2	4.0	82	se.			2		8						A. O. Thorlacius.
Thorshavn	30.17	766.3	30.19	766.9	42.4	5.8	81	se	22	10			10						Overloerer Bergh.
Upernavik, Greenland	29.06	738.5	29.12	739 7	0.3	—17.6		e.			2		1						
Vestervig	30.42	772.7	30.51	775.0	34.7	1.5	71	e.			4		10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.89	759.1			60.8	16.0		n.	3.8	1.7		0	8 k			0	0		Albert Ismailun.
French.																			
Agen, Normal School	29.20	741.6	29.85	758.1	55.0	12.8	79	ese.			1		5 cn	s.	s.	0	0		M. Labroue, Director.
Alençon, Normal School	29.38	746.3	29.93	760.3	41.0	5	81				1		ns			0	0		M. Nicot, Director.
Arras, Normal School	29.74	755.5			38.8	3.8	83	e.			4		0			0	0	clear	M. Ungerer, Director.
Avignon, Normal School	29.91	759.7	29.99	761.7	51.4	10.8	70	ese.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.46	748.2	30.04	762.9	38.7	3.7	67	se.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.76	755.9	30.04	762.9	37.9	3.3	63	e.			2		2		w.	0	0	slightly cl'dy	M. Frère Eugène Marie.
Besançon, Normal School	29.06	738.1	29.96	761.0	46.6	8.1	72	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.49	749.0	29.75	755.6	54.1	12.3	76	ese.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.35	745.6	29.92	759.9	43.7	6.5	90	ene.			4		k		ene.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.60	751.8	29.84	758 0	40.6	4.8	90	ese.			1		10		ese.	0.059	1.5		M. de Kermarée, Dir.
Caen, Normal School	29.85	758.2	29.93	760.1	41.7	5.4	97	se.			1		5					raining	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.67	753.6	30.00	761.9	41.7	5.4	57	se.			1		2	w.	e.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.57	751.0	30.10	764.5	36 7	2.6	83	e.			1		10		ne.	0	0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.53	724 6	29.91	759.8	42.4	5.8	82	nnw.			1		10			0	0		M. Alluard, Director.
Cluny, Normal School	29.11	739.4	29.98	761.5	42.8	6	85	e.			1		10	ne.	e.	0	0	covered	M. de Villemontée, Dir.
Commercy, Normal School	29.21	741.9	30.10	764.5	35.6	2	67	ene.			4		5 n		ene.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.43	696.7	30.01	762.2	42.4	5.8	81	calm			0		7 n			0.04	1.		M. Jarach, Director.
Grésque, du Rhone	28.84	732 6	29.98	761 6	50.9	10.5	70	s.			2		9		s.	0	0		M. Klua, Director.
Grenoble, Normal School	29.17	741.0	29.95	760.8	46.4	8	72	ese.			1		n			0	0		M. Ablard, Director.
Guéret, Normal School	28.30	718.9	29.87	758 7	50.0	10	74	sw.			1		10 kn		sw.	0	0	covered	M. Delorme, Dir.
Lescar, Normal School	29.17	741.0	29.74	755 3	59.4	15.2	60	ene.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.69	754.2	29.80	756.8	40.6	4.8	69	e.			4		10		e.	0.236	6.0	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.90	734.1	30.00	761.9	37.2	2.9	80	ne.			1					0	0	foggy	M. André, Director.
Mans, Normal School	29.61	752.2	29.93	760 2	39.7	4.3		se.			6		5 kn		se.	0	0	cloudy	M. Richard, Director.
Marseille, Observatory	29.70	754 3	29.97	761.2	52.3	11.3	68	ese			2		10		s.	0	0		M. Stephan, Director.
Montlouis	24.65	626.1	29.49	749.1	46.0	7.8	48	nw.	11.2	5.0			6	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.80	756.8	29.91	759.6	50.7	10.4	100	s.			4		10		se.	0.024	0.6	light rain	M. Galzin, Director.
Nancy, Normal School	29.28	743.6	30.10	764.5	34.5	1.4	78	nne.			1		kn		ne.	0	0		M. Hasse, Director.
Nantes, Observatory	29.68	753.8	29.84	757 9	38.7	3.7	88	e.			1–4		10 n		sse.			rainy	M. Larocque, Director.
Perpignan, Observatory	29.77	756.1	29.88	758.9	60.1	15.6	61	se.	9.4	4.2			10		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.03	534.2			26.2	— 3.2		w.			2		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.87	733 4	29.96	761.0	44.6	7	85	s.			1		n		s.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	24.97	634.1			33.3	0.7	96	sse.			2		8	w.		0.004	0.1		M. Alluard.
Rochefort, Naval Obs'y	29.74	755 4	29.77	756.2	52.2	11.2	75	se.			2		10		sse.	0.12	3.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.56	750.8	29.78	756.4	45.0	7.2	89	e.			4		10					light rain	M. Brotier, Director.
Rodez, Normal School	27.75	704 8	29.92	759.9	46.4	8.		nw.			8		kn		nw.	0	0		M. Seger, Director.
Rouen, Normal School	29.97	761 3	30.02	762.5	39.9	4.4	65	nne.			4		5	nne.		0	0	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.85	758.1	30.01	762.3	41.7	5.4	60	e.			4					0	0		M. Renou, Director.
Toulouse, Observatory	29.11	739.3	29.83	757.6	58.6	14.8	74	sse.			6		2	w.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.71	754 5	29.85	758.2	43.5	6.4	79	ene.			2		8		sw.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.48	748.9	29.98	761.4	39.2	4.0	67	se.			4		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29 61	752.0	29.76	755.8	55.8	13.2	79	ne.	5.8	2.6		c	6 k	wsw.		0	0		M. Cartier, Director.
German.																			
Ansbach	28.61	726.7	30.11	764.9	37.8	3.2	55	ne.			4		2	ne.		0	0		Prof. Jnedt.
Bamberg	29.31	744.4	30.00	761.9	36.7	2.6	60	se.			3		4 k		e.	0	0		Prof. Dr. Hoh.
Berlin	30.30	769.6	30.45	773.5	32.0	0.0	71	ne.			5		10			0	0		Meteorological Institute
Breslau	29.93	760.1	30.47	773.8	29.5	— 1.4	66	ese.			4		10			0	0		Royal University Obs'y
Carlsruhe	29.63	752 7	30.11	764.8	38.8	3.8	57	ne.			2		9	e.		0	0		Albert Senz.
Cassel	29.51	749.0	30.22	767.7	38.5	3.6	53	ne.			4		5	ne.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.76	756.0	30.14	765.6	40.6	4.8	53	ene.			3		6			0	0		Physical Society.
Friedrichshafen	28.60	726.4	30.08	764 1	32.4	0.2	92	n.			1		10	ne.		0.220	5.6	snowing	Wilhelm, Chief Tel.
Hamburg	30.36	771.2	30.45	773.5	33.4	0.8	85	ese.			5		7			0	0		E. Preller.
Kiel	30.45	773.3	30.46	773.7	35.8	2.1	66	e.			3		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.91	759 7	30.35	771.0	34.7	1.5	72	e.			4		0			0	0		H. Leppig, Asst.
Magdeburg	30.19	766.9	30.39	772.0	35.4	1.9	59	e.			4		1 s	e.		0	0		Weather Observatory.
Memel	30.59	777.0	30.64	778.2	28.6	— 1.9	80	ne.			3		10						Isermann.
Munich	28.17	715.4	30.03	762.7	39.0	3.9	54	e.			2		4	e.		0	0		Central Station.
Neufahrwasser	30.60	777.1	30.61	777.5	31.6	— 0.2	76	se.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.56	750.8	30.09	764.2	40.6	4.8	57	e.			3		5	e.		0	0		Prof. Dickneither.
Stuttgart	29.09	738 9	30.02	762.5	36.1	2.3	85	ne.			1		4	s.		0	0		Prof. Dr. Schoder.
Wustrow	30.47	774.0	30.50	774.6	35.4	1.9	65	ese.			3		10 cs			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.80	756.9	30.20	767.0	42.6	5.9		n.			1.5		10			0.047	1.2		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.84	757.8	29.89	759.1	73.2	22.9	73	ssw.	21.0	9.4			10			0	0	gloomy	
Deesa	29.38	746.2	29.85	758 2	82.7	28.2	26	w.	14.0	6.3			4	wnw.	wnw.	0	0	d. clouds	
Bombay	29.86	758.5	29.90	759.5	76.1	24.5	65	nw.	13.0	5.8			1			0	0	d. clouds	
Poona, Yarrowda	28.02	711 6	29.85	758.2	83.9	28.8	19	wnw.	8.0	3.6			2	nw.		0	0	d. clouds	
Belgaum	27.34	694.3	29.85	758.2	80.5	26.9	21	wsw.	7.0	3.1			0			0.01	0.3	blue sky	
Lahore	29.16	740.6	29.92	760.0	67.7	19.8	38	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.97	735 8	29.89	759.1	68.7	20.4	27	w.					10	w.		0	0	overcast	
Agra	29.36	745 7	29.94	760.5	69.2	20.7	32	nw.	8.0	3.6			10		w.	0	0	overcast	
Nagpur	28.82	732.0	29.87	758.6	79.7	26.5	23	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.54	725.0	29.92	760.0	72.8	22.7	34	calm	0	0			6	nw.		0	0	d. clouds	
Lucknow	29.48	748.9	29.87	758.7	69.3	20.7	22	nnw.	4.0	1.8			9			0	0	d. clouds	
Allahabad	29.58	751.3	29.90	759.4	72.0	22.2	38	calm	0	0			9		sw.	0	0	d. clouds	
Patna	29.69	754.1	29.88	759.0	71.9	22.2	31	wnw.	2.5	1.1			6	wnw.	wnw.	0	0	d. clouds	
Hazaribagh	27.85	707.4	29.90	759.4	68.4	20.2	22	calm	0	0			0			0	0	blue sky	
Cuttack	29.82	757.4	29.90	759.6	73.0	22.8	69	s.	5.0	2.2			4			0	0	d. clouds	
Calcutta, Alipore	29.86	758.5	29.88	759.0	74.5	23.6	66	sw.	1.5	0.7			1			0	0	d. clouds	
Dhubri	29.78	756.5	29.91	759.6	70.4	21.2	57	calm	3.2	1.4			9		sw.	0	0	d. clouds	
Chittagong	29.83	757.7	29.92	760.1	71.1	21.7	79	w.	3.0	1.3			5			0	0	d. clouds	
Sibsagar	29.66	753.4	30.02	762.4	57.3	14.1	94	ne.	2.0	0.9			10	w.	w.	0.41	10.4	overcast	
Jeypore	28.47	723.1	29.95	760.7	67.9	19.9	39	ssw.	2.0	0.9			9		ssw.	0	0	overcast	
Zanzibar	29.87	758.6	29.89	759.2	84.6	29.2	68	ssw.	3.0	1.3			8		sse.	0	0	d. clouds	
Bellary	28.35	720.1			89.0	31.7	22	nw.	6	2.7		0	0			0	0	blue sky	
Trichinopoly	29.58	751.3			91.3	32.9	41	ne.	0.3	0.1		3	2			0	0	d. clouds	
ITALIAN.																			
Udine	29.73	755.2	30.16	766.0	45.0	7.2	39	se.	12.5	5.6			8			0	0		Prof. Giovanni Clodig.
Milan	29.64	752.9	30.18	766.6	37.4	3.0	76	n.	3.1	1.4			10	sse.		0.051	1.3		Prof. G. V. Schiapparelli
Padua	30.02	762.6	30.14	765.5	43.5	6.4	55	ne.	10.5	4.7			10	sw.		0.075	1.9		Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.2	30.16	766.1	38.3	3.5	53	nw.	1.3	0.6			10			0	0		Prof. F. F. Denza.
Genoa	29.87	758.7	30.07	763.7	40.6	4.8	71	n.	8.1	3.6			10	sw.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.03	762.8	30.08	764.1	42.8	6.0	83	ne.	17.4	7.8			10	ne.		0.650	16.5		Prof. Luigi Guidi.
Florence	29.74	755.4	30.00	762.1	50.0	10.0	48	ne.			4		2			0	0		Prof. Costantino Pittei.
Leghorn	29.87	758.6	29.94	760.4	51.8	11.0	45	se.	14.3	6.4			5	ne.		0	0		Prof. P. Monte.
Rome	29.77	756.2	29.95	760.7	51.4	10.8	75	n.	2.5	1.1			9			0	0		Prof. P. Tacchini.
Lecce	29.67	753.5	29.93	760.1	50.0	10.0	84	ese.	28.0	12.5			10	se.		0.949	24.1		Prof. C. de Giorgi.
Cosenza	29.04	737.6	29.96	760.9	50.7	10.4	75	sse.	2.5	1.1			9	se.		0.362	9.2		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.69	754.1	29.95	760.6	60.3	15.7	72	ese.	4.9	2.2			1			0	0		Prof. G. Cacciatore
Syracuse	29.86	758.4	29.90	759.5	61.7	16.5	65	ssw.	15.0	6.7			6	wsw.		0.004	0.1		Sig. V. Giulia o.
Sub-series.																			
Naples, Astron'l Obs'y	29.41	747.0	29.94	760.5	52.3	11.3	76	n.	1.8	0.8			6	nw.		0.256	6.5		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.57	751.1	29.60	752.0	37.0	2.8	98	w			4		10 n			0.106	2.7	raining	H. Hattori.
Awomori	29.48	748.8	29.52	749.8	34.1	1.2	90	sw.	9.3	4.2			10 n			0.072	1.8	snowing	K. Ogawa.
Hakodate	29.46	748.3	29.47	748.6	36.6	2.6	96	ssw.	18.0	8.0			10 n			0.342	8.7	raining	Y. Souma.
Hamamatsu	29.67	753.6	29.77	756.1	39.5	4.2	87	wnw.			2	0	0			0.394	10.0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	29.93	760.3	29.95	760.7	40.1	4.5	94	w.	1.9	0.9		0	2 ck		ne.	0.094	2.4	clear	Y. Okamoto.
Kagoshima	30.02	762.6	30.04	762.9	42.7	5.9	86	nnw.			2	0	0			0	0	clear	
Kanazawa	29.73	755.2	29.84	757.9	40.0	4.4	68	w.	14.8	6.6			10s;ks			0.412	10.5	overcast	S. Endo.
Kioto	29.71	754.7	29.80	759.1	35.3	1.8	98	calm	0	0			10 s			0.119	3.0	cloudy	M. Tojima.
Kochi	29.86	758.5	29.88	759.0	44.1	6.7	77	calm	0	0		1 ck	0			0.170	4.3	clear	K. Kusunose.
Miasaka	29.94	760.6	29.97	761.3	45.1	7.3	65	wnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.46	748.4	29.57	751.2	32.4	0.2	73	wsw.	1.8	0.8		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.85	758.2	30.06	763.5	40.4	4.7	68	w.	1.5	0.6		0	0			0.020	0.5	clear	
Nemuro	29.53	750.1	29.58	751.3	27.0	— 2.8	79	sw.	9.0	4.0		0	0			0	0	clear	A Shibuya.
Niigata	29.65	753.1	29.69	754.1	41.0	5.0	85	w.	25.9	11.5			10 n		w.	0.140	3.6	light rain	Satoo & Tomikawa.
Nobiru	29.57	751.0	29.58	751.4	37.8	3.2	78	sw.	0.8	3.0		0	2 s			0	0	fair	Yoshino & Midzushina.
Numadzu	29.65	753.1	29.69	754.1	47.4	8.6	81	wnw.			2		10 ks		w.	0.240	6.1	cloudy	T. Ohgi.
Osaka	29.87	758.8	29.89	759.2	39.0	3.9	84	w.	4.1	1.8		1 cs	9 s			0.080	2.0	cloudy	H. Omura.
Sakai	29.90	759.4	29.91	759.6	38.0	3.3	71	w.			2	0	0			0.209	5.3	clear	Yamawchi & Sakamoto.
Sapporo	29.40	746.8	29.47	748.5	36.3	2.4	89	se.	13.2	5.9			10 s			0.015	0.4	covered	S. Kimura.
Shimonoseki	29.84	758.0	29.99	761.7	43.2	6.2	74	wnw.			2		9 ks		wnw.	0.173	4.4	cloudy	S. Sakano.
Wakayama	29.84	758.0	29.90	759.4	38.8	3.8	89	calm	0	0		0	3cksks			0.110	2.8	fair	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.80	756.9	29.98	761.5	80.6	27.0	65	ese.	17.5	7.8		7 cs	2 kn		ese.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.38	619.2	30.22	767.6	46.4	8.0	76	calm	0	0		0	0			0	0	clear	M. Leal & M. Pina
Mazatlan	29.92	759.8	30.18	766.6	66.0	18.9	94	nne.	1.6	0.8		2 ck	0	w.		0	0	foggy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.17	766.2	30.17	766.2	37.8	3.2		e.			5					0	0		
Groningen	30.34	770.7	30.40	772.1	34.0	1.1		ese.								0	0		
Helder	30.28	769.2	30.28	769.2	34.2	1.2		e.			4					0	0		
Hellevoetsluis	30.21	767.2	30.21	767.2	44.1	6.7	64	e.			3					0	0		
Utrecht	30.20	767.0	30.25	768.4	35.4	1.9	55	ene.			3		7			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.2			79.2	26.2	83	n.	0	0			5			1.181	30.0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.49	774.5	30.56	776.1	35.6	2.0	64	calm	0	0			0			0	0		
Brono	30.62	777.8	30.66	778.8	39.4	4.1	93	calm			0		10			0.031	0.8		
Christiania	30.52	775.3	30.68	779.3	32.5	0.3	70	se.	0	0			0			0	0		
Gjæsvær	30.22	767.7	30.25	768.3	38.1	3.4		wnw.			7		10			0.213	5.4		
Lodingen	30.51	774.9	30.56	776.1	39.6	4.2	85	sw.			2		10			0	0	foggy	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.63	752.7	29.72	754.9	57.2	14.0	57	calm	1.3	0.6			10			0.098	2.5	raining	Capt. D. A. de Cunha.
Lisbon, Observatory	29.30	744.1	29.63	752.7	47.5	8.6	96	nne.	20.0	9.2			10			0.146	3.7	raining	The Staff.
Ponta Delgada, Azores	29.84	757.8	29.91	759.6	52.2	11.2	80	w.	6.9	3.1			10			0.102	2.0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	29.98	761.6	30.02	762.5	68.9	20.5	69	ne.			4		7			0	0		
San Salvador, Congo	28.06	712.8	29.90	759.4	77.0	25.0	71	ne.			2		10			0.449	11.4		
Serra da Estrella	24.90	632.4	29.74	755.5	31.5	— 0.3	100	s.	15.4	6.9			10			0.429	10.9	snow & fog	
RUSSIAN.																			
Akmolinski	28.80	731.4	30.01	762.2	— 5.6	—20.9	93	calm	0	0		6 ck	0			0	0		Major K. Lasarew.
Archangel	30.03	762.8	30.05	763.3	30.4	— 0.9	86	wnw.	22	10		0	8 ks			0.098	2.5		Capt. Sselliwerstow
Ashuruda	30.17	766.2	30.07	763.8	50.2	10.1	82	nnw.	7	3			10 kn			0.480	12.2		
Astrakhan	30.34	770.5	30.25	768.4	20.8	— 6.2	84	ne.	11	5			10			0	0	h'vy clouds	Capt. Wisganow.
Baku	30.26	768.6	30.21	767.4	34.5	1.4	76	nnw.	22	10			9 kn			0	0		
Barnaul	29.57	751.0	30.13	765.4	— 6.5	—21.4	72	sw.	9	4			2			0	0		Meteorological Office.
Bielosersk	29.85	758.2	30.35	770.9	24.1	— 4.4	100	w.	7	3			10 s			0	0		
Dorpat	30.30	769.7	30.56	776.3	29.3	— 1.5	94	w.	2	1			10 n			0.004	0.1	snowing	Observatory.
Ekaterinburg	28.93	734.9	29.98	761.4	9.0	—12.8	82	wsw.	22	10			10			0	0		Meteorological Obs'y.
Elissawetgrad	29.99	761.7	30.48	774.2	20.8	— 0.2	77	ne.	9	4		0	8 ks			0	0		
Kasan	30.05	763.2	30.35	770.8	6.3	—14.3	83	sw	4	2			10			0	0		Observatory.
Kem	30.30	769.5	30.35	770.8	32.4	0.2	78	w.	18	8		0	8 ks			0	0	light clouds	
Kertch	30.21	767.4	30.24	768.0	23.2	— 4.9		ne.	4	2			10 n			blank	blank		Lagorio & Sastyrez
Kieff	29.80	757.0	30.49	774.4	25.0	— 3.9	58	nne.	9	4		0	5 n			blank	blank		Observatory.
Koslov	29.95	760.7	30.51	775.0	4.8	—15.1	64	calm	0	0			0			0	0		
Lgov	29.95	760.6	30.60	777.2	7.3	—13.7	80	ene.	9	4			3			0	0		R. I. Ssaweljew, Engin'r.
Libau	30.62	777.8	30.65	778.4	30.4	— 0.9	72	calm	0	0			10			0	0		F. Quass
Lugan	30.19	766.8	30.41	772.5	17.8	— 7.9	65	ne.	22	10			4			0	0		Meteorological Obs'y
Moscow	29.98	761.4	30.50	774.7	20.7	— 6.3	84	n.	7	3			10 s			0	0		Meteorological Obs'y
Nertschinsk	27.62	701.6	30.13	765.2	4.6	—15.2	66	nw.	4	2			5			0	0	light clouds	
Nikolaiev	30.30	769.7	30.37	771.5	25.7	— 3.5	76	nne.	18	8			10 n			0	0		Capt. Kurdakow.

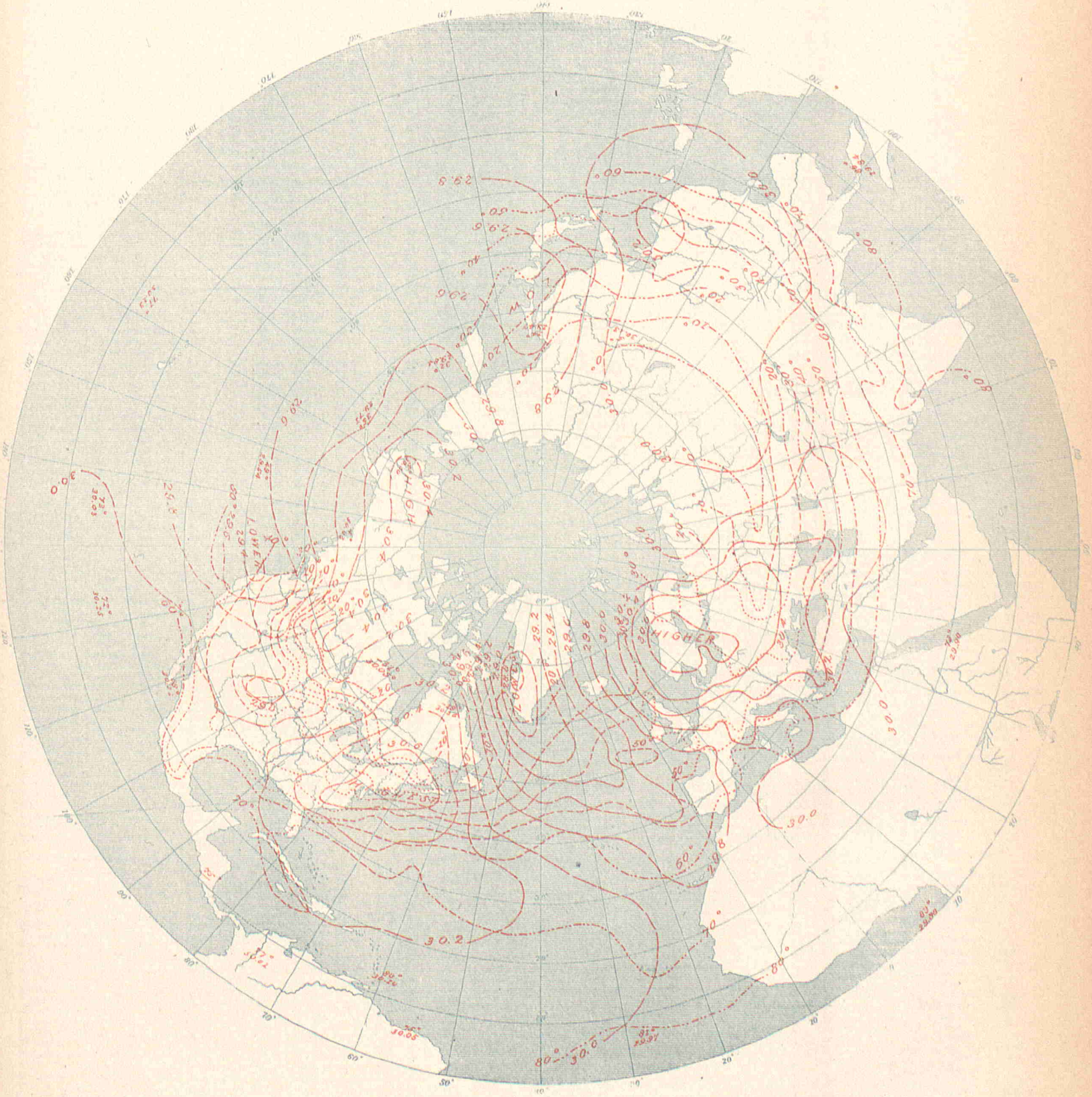
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	29.38	746.3	29.47	748.5	14.0	—10.0	96	w.	2	1			10 n						Iwanow.
Pekin, China	30.01	762.2	30.15	765.8	33.3	0.7	27	calm	0	0		0	0						Siang.
Petro-Alexandrovsk	29.74	755.3	30.11	764.8	31.3	— 0.4	85	n.	1.1	0.5			10						Walter.
Petrozavodsk	30.18	766.5	30.39	771.8	29.5	— 1.4	88	nw.	16	7			10			0	0	light clouds	Dr. Bergmann.
Pinsk	30.05	763.3	30.59	776.9	27.1	— 2.7	60	ene.	7	3			10 s			0.008	0.2		
Poti	30.07	763.7	30.10	764.5	40.6	4.8	87	s.	4	2		0	3 s			0.591	15.0		
St. Petersburg	30.48	774.3	30.51	774.9	27.0	— 2.8	96	nw.	11	5			10 n			0.008	0.2		Central Physical Obs'y.
Samarkand	27.50	698.6	30.04	762.9	40.3	4.6	81	calm	0	0			10 n						Dresch.
Semipalatinsk	29.43	747.6	30.17	766.4	— 3.8	—19.9	86	calm	0	0			8			0.059	1.5		Major Lasarew
Sevastopol	29.99	761.8	30.22	767.6	28.9	— 1.7	68	ne.	20	9		0	7 s			0	0		
Staroi Bykhov	29.95	760.8	30.55	776.0	24.3	— 4.3	75	ne.	7	3			10			0	0		Carl Hagen.
Tashkend, Laboratory	28.30	718.9	30.02	762.4	41.4	5.2	51	calm	0	0			10 n					heavy cl'ds.	Teren, A. M
Tiflis	28.68	728.4	30.15	765.7	40.1	4.5	58	calm	0	0		2 ck	0			inap.	inap.		Physical Observatory.
Vernoe	27.25	692.2	29.89	759.3	21.9	— 5.6	62	calm	0	0		0	2 k						Sariono.
Viatka	29.43	747.6	30.11	764.9	13.6	—10.2	85	w.	9	4			10			0	0		
Vladivostock	29.57	751.1	29.64	752.8	18.9	— 7.3	50	w.	13	6			2 k			0	0		
Warsaw	30.12	765.0	30.57	776.5	29.1	— 1.6	68	se.	11	5			10					heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.71	754.7	30.04	762.9	— 7.4	—21.9	78	calm	0	0			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.81	757.2	30.35	770.9	19.7	— 6.8	89	w.	24.8	11.1			10 ks		w.	inap.	inap.	cloudy	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.79	756.6	29.90	759.4	55.0	12.8	93	e.				0	4 kn			0	0		B.J.Elin.
Bilbao, Met. Obs'y	29.67	753.5	29.72	755.0	64.6	18.1	66	sw.	1.6	0.7		2	3	nw.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.83	681.4	29.78	756.3	53.6	12.0	58	s.	7.4	3.3			9			0	0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.52	699.1	29.74	755.4	54.7	12.6	61	ne.	11.2	5.0			10			0	0	covered	The Staff.
Murcia, Met. Obs'y	29.71	754.6	29.84	757.9	57.7	14.3	89	e.	2.9	1.3		5	5	sw.		0	0	foggy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.79	731.2	29.68	753.9	53.2	11.8	71	n.	0.7	0.3			10			0.051	1.3	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.11	764.8	30.18	766.5	68.9	20.5	91	e.	0.4	0.2		c	8	w.	se.	0.57	14.5	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.95	760.6	30.00	762.0	76.0	24.4	79	ese.	4.4	2.0		0	8			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	29.60	751.9	29.70	754.4	62.2	16.8	65	s.	18.0	8.1			10		se.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.10	764.5	30.19	766.8	75.2	24.0	86	se.	12.8	5.7		1 c	2 kn	se.	se.	0.024	0.6	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	30.56	776.3	30.60	777.3	16.2	— 8.8	100	calm			0		0			0.012	0.3		
Umea	30.58	776.3	30.63	778.1	33.4	0.8	89	sw.			2		0			0	0		
Hernosand	30.50	774.7	30.55	776.0	32.4	0.2	96	calm			0		0			0	0		
Stockholm	30.43	773.0	30.61	777.5	28.4	— 2.0	82	nw.			2		10			0	0		
Wisby	30.52	775.1	30.58	776.6	33.1	0.6	82	nw.			4		10			0	0		
Sub-series.																			
Upsala	30.52	775.2	30.61	777.4	32.9	0.5	79	nw.	5.6	2.5			0			inap.	inap.		H.H.Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.22	767.5	37.9	3.3	60	nw.	19	8.5			8		n.	0.079	2.0	snowing	The Observatory.
Valona			30.00	761.9	46.0	7.8		nw.			2		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.87	758.8	56.5	13.6	66	nw.			2		9 n		sw.	0.574	14.6		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.67	779.0	30.76	781.3	18	— 7.8	57	n.	1	0.4		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.66	753.4	30.37	771.4	16.2	— 8.8	67	s.	11	4.9			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.79	629.7	29.89	759.2	33.6	0.9	90	se.	1	0.4			10 n			0.20	5.1	light snow	J. B. Turton.
Assinnaboine, Ft., Montana	27.02	686.3	30.00	763.5	—10.0	—23.3	100	n.	5	2.2			10 s		n.	0	0	cloudy	F. Newman.
Atlanta, Georgia	29.24	742.7	30.46	773.7	36.2	2.3	77	e.	21	9.4			10 s		e.	0	0	cloudy	S. W. Beall.
Atlantic City, New Jersey	30.69	779.5	30.70	779.8	26.0	— 3.3	76	ne.	7	3.1			10 ks		e.	0.02	0.5	cloudy	B.A.Blundon.
Augusta, Georgia	30.30	771.1	30.50	776.2	38	3.3	72	ne.	8	3.6		8 cs	0	s.		0	0	cloudy	W.J.Evans.
Baltimore, Maryland	30.69	779.5	30.74	780.8	31	— 0.6	57	ne.	4	1.8		0	sk.			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.70	779.8	30.72	780.3	30.0	— 1.1	92	se.	14	6.3		0	2 k		se.	inap.	inap.	clear	F.L.Johnson.
Bennet, Fort, Dakota	28.24	717.3	29.97	761.2	— 5.0	—20.6	100	ne.	6	2.7			10 n		ne.	inap.	inap.	light snow	A. Pritchard.
Benton, Fort, Montana	27.03	686.5	30.03	762.7	—11.0	—23.9	70	w.	1	0.4			10 n					light snow	Thomas Morgan.
Bismarck, Dakota	28.00	712.7	30.04	763.0	—14.0	—25.6	100	calm	0	0		0	5 s		nw.	0	0	fair	B. O. Lenoir.
Block Island, Rhode Island	30.73	780.5	30.76	781.3	26.0	— 3.3	70	ne.	15	6.7		0	0			0	0	clear	J. T. Eiker.
Boise City, Idaho	26.73	678.9	29.69	754.1	22.2	— 5.4	98	calm	0	0			10 s			0.36	9.1	cloudy	James Kenealy.
Boston, Massachusetts	30.56	776.2	30.72	780.3	23.0	— 5.0	46	nw.	7	3.1		5 cs	fg.			0	0	fair	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.03	762.7	58.0	14.4	93	calm	0	0			10 k		se.	0	0	cloudy	John McGlone.
Buffalo, New York	29.76	755.9	30.55	776.0	18	— 7.8	86	se.	5	2.2		0	0			0	0	clear	Wm. Finn.
Buford, Fort, Dakota	27.83	706.9	30.04	762.0	—13	—25.0	82	ne.	12	5.4		5 c	5 s	w.		0	0	cloudy	A. Schneider.
Cairo, Illinois	29.89	759.2	30.31	769.9	33.8	1.0	75	s.	9	4.0			10 s		s.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.27	743.4	29.47	748.5	34.2	1.2	84	n.	4	1.8		0	0			0	0	clear	J.H.Young.
Cape Henry, Virginia	30.65	778.5	30.67	779.0	37.0	2.8	72	ne.	16	7.2			10 s		w.	0.05	1.3	cloudy	A. K. Alderson.
Cape May, New Jersey	30.66	778.7	30.69	779.5	24.0	— 4.4	73	ne.	10	4.5			10 s			0.07	1.8	cloudy	W.E.Smith.
Cape Mendocino, California	28.71	729.2	29.41	747.0	47.2	8.4	98	se.			4		fg.			inap.	inap.	dense fog	A. P. Leavitt.
Cedar Keys, Florida	30.23	767.8	30.25	768.3	61.0	16.1	90	ne.	15	6.7			10 s		ne.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.40	772.1	30.46	773.7	43.0	6.1	87	ne.	16	7.2			10 s		ne.	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.72	754.9	30.02	777.9	31.0	— 0.6	87	ne.	6	2.7		10 cs	fg.			0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.55	750.6	30.41	772.4	41.0	5.0	52	se.	14	6.3		9 cs	0	w.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.57	598.7	29.84	757.9	28.3	— 2.1	43	nw.	10	4.5			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.50	749.3	30.25	768.3	29.9	— 1.2	49	s.	7	3.1			10 s			0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.66	778.7	30.68	779.3	31.3	— 0.4	85	n.	12	5.4		0	7 ks		e.	0.02	0.5	fair	C. F. Dickens
Cincinnati, Ohio	29.71	754.6	30.40	772.1	30.8	— 0.7	83	se.	2	0.9		3 cs	0			0	0	clear	L.Dunne.
Cleveland, Ohio	29.66	753.4	30.45	773.4	24.0	— 4.4	80	se.	10	4.5		0	6 shz		se.	0	0	fair	W.Line.
Columbus, Ohio	29.54	750.3	30.44	773.2	29.2	— 1.6	88	ne.	6	2.7			10 s			inap.	inap.	cloudy	F.T. Williams
Concho, Fort, Texas	28.01	711.4	30.03	762.7	36.0	2.2	82	e.	23	10.3			10 s		s.	0	0	cloudy	C. E. King.
Custer, Fort, Montana	26.51	673.3	29.87	758.7	— 7	—21.7	86	n.	8	3.6		0	9 ks		w.	0	0	cloudy	W.J.Daily.
Davenport, Iowa	29.44	747.8	30.14	765.5	29.1	— 1.6	77	se.	10	4.5			10 s			0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.05	630.3	30.01	762.2	40.3	4.6	43	se.	8	3.6		0	6 s		se.	0	0	fair	J. Williams.
Dayton, Washington T'y	27.81	706.4	29.63	752.6	10.8	—11.8	89	w.	1	0.4			10 n			0.10	2.5	light snow	H.S.Blandford.
Deadwood, Dakota	24.90	632.4	29.82	757.4	16.2	— 8.8	80	w.	1	0.4		0	0			inap.	inap.	clear	G.Kingsbury.
Delaware Breakwater, Del.	30.72	780.3	30.74	780.8	30.3	— 0.9	81	ne.	13	5.8			10 s		ne.	0.01	0.3	cloudy	G.A.Martin.
Denver, Colorado	24.31	617.5	29.83	757.7	27.0	— 2.8	70	s.	2	0.9		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.02	737.1	30.00	762.0	31.8	— 0.1	81	s.	8	3.6			10 n		s.	0.05	1.3	light snow	F. W. Conrad.
Detroit, Michigan	29.71	754.0	30.46	773.7	29.0	— 1.7	88	sw.	8	3.6			10 s		sw.	0	0	cloudy	N.B.Conger.
Dodge City, Kansas	27.05	687.1	29.79	756.7	26	— 3.3	76	se.	21	9.4		1 cs	0			0	0	clear	J.E.Lanouette.
Dubuque, Iowa	29.38	746.2	30.14	765.5	27.8	— 2.3	67	s.	7	3.1			10 s			0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	29.27	743.4	30.08	764.0	6.0	—14.4	87	ne.	8	3.6			10 s			0.04	1.0	cloudy	E.R.Brace.
Eastport, Maine	30.65	778.5	30.72	780.3	14.0	—10.0	64	nw.	8	3.6		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	26.95	684.5	29.85	758.2	28.8	— 1.8	94	s.	20	8.9			10 s			0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.11	663.2	29.99	761.7	39.1	3.9	81	w.	6	2.7		0	0			0.56	14.2	clear	J. O'Dowd.
Erie, Pennsylvania	29.74	755.4	30.51	774.9	25.5	— 3.6	81	s.	9	4.0		10 c	0	w.		0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.49	749.0	30.21	767.3	9.7	—12.4	71	s.	3	1.3		10 ck	0	sw.		0	0	cloudy	L.M.Pindell.
Fort Smith, Arkansas	29.63	752.6	30.13	765.3	32.5	0.3	88	e.	10	4.5			10 s			inap.	inap.	cloudy	J. B. Campbell.
Galveston, Texas	30.03	762.7	30.07	763.8	55.0	12.8	86	e.	10	4.5		3 ck	4 ks	sw.	e.	0	0	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.58	751.3	30.29	769.4	23.0	— 5.0	88	e.	8	3.6			10 s			0.03	0.8	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.10	637.5	29.96	761.0	33.2	0.7	93	n.	5	2.2			10 n		n.	1.22	31.0	light rain	Chas. A. Read.
Hatteras North Carolina	30.54	775.7	30.55	776.0	43.0	6.1	74	ne.	19	8.5		6 k	3 s	ne.	n.	0.05	1.3	cloudy	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.46	646.7	29.81	757.2	1	—17.2	72	n.	7	3.1			10 s			0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.35	720.1	29 87	758.7	4.5	—15.3	82	nw.	11	4.9			10 s			inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.47	748.5	30.32	770.1	28.5	— 1.9	77	se.	6	2.7			10 s		se.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.99	761.7	30.02	762.5	54.0	12.2	100	e.	7	3.1			10 s		w.	0.03	0.8	cloudy	I. A. Reed.
Jacksonville Florida	30.28	769.1	30.33	770.4	57.0	13.9	93	ne.	14	6.3			10 s			inap.	inap.	cloudy	J. W. Smith.
Keokuk, Iowa	29.45	748 0	30.15	765.8	29.0	— 1.7	88	se.	2	0.9			10 s		se.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.17	766.3	30.19	766.8	74	23.3	90	ne.	5	2.2		1 ck	6k;ks	sw.	ne.	inap.	inap.	fair	A. W. Browne.
Kittyhawk, North Carolina	30.62	777.7	30.64	778.2	40.4	4.7	74	ne.	24	10.7		0	8 k		ne.	0.12	3.0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.34	745.2	30.42	772.7	33.6	0.9	78	ne.	1	0.4		4 cs	sk.			0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.25	742.9	30.09	764.3	29	— 1.7	88	s.	14	6.3			10 n			0.02	0.5	light snow	S. C. Emery.
Leavenworth, Kansas	29.06	738.1	30.01	762.2	35	1.7	64	s.	12	5.4			10 k		sw.	inap.	inap.	cloudy	T. S. Outram.
Lewiston, Idaho	28.74	730.0	29.61	752.1	21.0	— 6.1	70	sw.	1	0.4			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.87	758.7	30.20	767.1	37.0	2.8	72	e.	1	0.4			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.55	750.6	29.95	760.7	49.2	9.6	98	e.	3	1.3			10 n		e.	1.65	41.9	heavy rain	T. S. Collins.
Louisville, Kentucky	29.75	755.6	30.34	770.6	35.0	1.7	79	se.	3	1.3			10 s			0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.94	760.5	30.66	778.7	30.0	— 1.1	68	e.	2	0.9		0	8 s			0.80	20.3	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.59	751.6	30.29	769.4	14.0	—10.0	80	e.	8	3.6			10 s			0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.56	776.2	30.57	776.5	41.0	5.0	82	n.	23	10.3			10 s		ne.	0.06	1.5	cloudy	William Daly.
Maginnis, Fort, Montana	25.30	642.6	30.05	763.3	—11.5	—24.2	54	nw.	16	7.2			10 n		nw.	inap.	inap.	light snow	F. Burke.
Marquette, Michigan	29.38	746.2	30.16	766.1	21.3	— 5.9	87	sw.	16	7.2			10 n			0.01	0.3	light snow	J. Gilligan.
Memphis, Tennessee	29.87	758.7	30.22	767 6	34.0	1.1	100	calm	0	0			fg.		e.	0	0	dense fog	D. T. Flannery
Milwaukee, Wisconsin	29.40	746.7	30.20	767.1	26.2	— 3.2	79	s.	12	5.4			10 s			0	0	cloudy	S. W. Rhode.
Mobile, Alabama	30.18	766.6	30.22	767.6	44.8	7.1	71	ne.	4	1.8			10 s		sw.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.08	764.0	30.32	770.1	47	8.3	86	e.	12	5.4		8ok;cs	0	w.		0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	28 89	733.8	29.99	761.7	—12	—24.4	100	n.	11	4.9			10 s		n.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.96	608.6	30.58	776.7	3.2	—16.0	96	nw.	20	8.9		0	0			0	0	clear	Edwd. A. Beals.
Nashville, Tennessee	29.69	754.1	30.30	769.6	34.3	1.3	78	e.	4	1.8		10 cs	0	sw.		inap.	inap.	cloudy	L. N. Jesunofsky
New Haven, Connecticut	30.62	777.7	30.74	780.8	16.1	— 8.8	80	n.	11	4.9		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.70	779.8	30.75	781.0	23.0	— 5.0	61	nw.	6	2.7		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.09	764.3	30.15	765.8	49.0	9.4	74	ne.	6	2.7		0	9 s		sw.	0	0	cloudy	M. Herman.
New York, New York	30.56	776.2	30.75	781.0	22.0	— 5.6	73	ne.	7	3.1		0	4 s			0	0	fair	H. J. Penrod.
Norfolk, Virginia	30.64	778 2	30.67	779.0	34.7	1.5	81	ne.	5	2.2		0	7 s		n.	0.11	2.8	fair	Wm. Davis.
North Platte, Nebraska	26.69	677 9	29.79	756.7	13.2	—10.4	74	se.	4	1.8		0	0			0	0	clear	J. J. Mc Lean.
Olympia, Washington Ter	29.44	747.8	29.48	748.8	26.0	— 3.3	76	calm	0	0		hz.	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28 68	728 5	29.95	760.7	31.0	— 0.6	76	s.	13	5.8		0	0			0.12	3.0	clear	A. Pollak
Oswego, New York	30.31	769.9	30.66	778.7	17 3	— 8.2	59	s.	8	3.6		10 cs	0			0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.51	749.5	30.09	764.3	40.4	4.7	80	e.	11	4.9			10 s			0	0	cloudy	P. T. Jenkins.
Pensacola, Florida	30.20	767.1	30.23	767 8	49.2	9.6	69	ne.	9	4.0			10 s		w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.64	778.2	30.75	781.0	25.0	— 3.9	88	ne.	8	3.6		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.40	442.0	30.12	765.0	7.0	—13.9	69	w.	5	2.2		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.61	752.1	30.47	773.4	27.0	— 2.8	82	ne.	5	2.2		0	0			inap.	inap.	clear	O. D. Stewart.
Poplar River, Montana					—16.4	—26.9	88	e.			1		10 s			0	0	cloudy	G. A. Garden.
Port Huron, Michigan	29.69	754.1	30.43	772.9	18.2	— 7.7	85	se.	11	4.9		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.68	779.3	30.74	780.8	19.0	— 7.2	70	nw.	4	1.8		0	sk.			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.40	746.7	29.47	748.5	24.5	— 4.2	94	e.	1	0.4			10 n			0.08	2.0	light snow	M. L. Hearn.
Prescott, Arizona	24.56	623.8	29.92	760.0	34.0	1.1	82	s.	9	4.0			10 n			0.36	9.1	light snow	N. D. Lane.
Provincetown, Mass	30.68	779.3	30.71	780.0	27.0	— 2.8	74	e.	6	2.7		2 k	0	e.		inap.	inap.	cloudy	C. N. Kitchel.
Red Bluff, California	29.19	741.4	29.56	750.8	42.5	5.8	95	nw.	2	0.9			10 n			0.44	11.2	light rain	J. R. Williams.
Rio Grande City, Texas	29.84	757.9	30.08	764.0	45.0	7.2	94	w.	1	0.4		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.88	758 9	30.59	777.0	17	— 8.3	74	se.	8	3.6			9s;sk			0	0	cloudy	E. W. McGann.
Roseburg, Oregon	28.83	732.3	29.40	746.7	34.5	1.4	89	calm	0	0			10 n			0.56	14.2	light rain	J. J. Nanry.
Sacramento, California	29.52	749 8	29.59	751.6	48.5	9.2	96	se	19	8.5			10 n			1.05	26.7	light rain	J. A. Barwick
St. Louis, Missouri	29.57	751.1	30.23	767.8	37.0	2.8	56	se.	13	5.8			10 s			0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.46	773.7	30.50	774.7	5	—15.0	91	n.			2	0	0			0	0	clear	Fred. H. Clarke
St. Paul, Minnesota	29.04	737.6	29.97	761.2	28.0	— 2.2	90	s.	6	2.7			10 n		s.	0.05	1.3	light snow	P. F Lyons.
St. Vincent, Minnesota	29.21	741.9	30.18	766.6	—19.8	—28.8	85	nw.	4	1.8			10 ks		nw.	0.01	0.3	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.29	642.4	29.85	758.2	32.2	0.1	68	nw.	4	1.8			10 n			0.04	1.0	light snow	J. Craig.
San Diego, California	29.91	759.7	29.98	761.5	54.2	12.3	93	w.	8	3.6			10 n		w.	1.46	37.1	light rain	F. R. Day.
Sandusky, Ohio	29.70	754.4	30.42	772.7	26.5	— 3.1	82	se.	2	0.9			10 s		se.	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.72	780.3	30.75	781.0	25.0	— 3.9	64	ne.	14	6.3		7 cs	0			0	0	fair	V. P. Chappel.
Sanford, Florida	30.18	766.6	30.23	767.8	67.0	19.4	93	ne.	5	2.2			10 ks		ne.	0.04	1.0	cloudy	J. B. Marbury
San Francisco, California	29.53	750.0	29.60	751.8	52.5	11.4	91	sw.	24	10.7			10 s		sw.	1.52	38.6	threatening	N. Gorom.
Savannah, Georgia	30.35	770.9	30.44	773.2	45.5	7.5	76	ne.	11	4.9			10 s		ne.	0.04	1.0	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.22	666.0	30.07	763.8	— 9	—22.8	78	ne.	9	4.0		0	8 k		w	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.92	760.0	30.10	764.5	38.6	3.7	68	e	3	1.3			10 s		se.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	29.96	761.0	30.03	762.7	16	— 8.9	67	ne.	11	4.9		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	30.50	774.7	30.54	775.7	37.0	2.8	75	ne.	14	6.3			10 s		ne.	inap.	inap.	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.49	698.2	29.62	752.3	15.4	— 9.2	76	calm	0	0			10 n			0.05	1.3	light snow	D. Moore.
Springfield, Illinois	29.48	748.8	30.21	767.3	32.0	0.0	81	s.	16	7.2			10 s		s.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.84	681.7	29.97	761.2	40.0	4.4	73	s.	8	3.6			9 s		w.	0.01	0.3	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	29.39	746.5			33.6	0.9	82	e.	7	3.1			10 s		e.	0.03	0.8	cloudy	R. Connor.
Thomas, Camp, Arizona	27.24	691.9	30.07	763.8	39.2	4.0	95	calm			0		10 s			0.37	9.4	cloudy	R. O. Lord.
Toledo, Ohio	29.66	753.4	30.40	772.1	25	— 3.9	87	calm	0	0		10 cs	0	w.		0	0	cloudy	A. Buell.
Unalaska, Alaska	29.73	755.1	29.75	755.6	35	1.7	79	e.	12	5.4			10 s		e.	0.02	0.5	cloudy	Samuel Applegate
Vicksburg, Mississippi	29.97	761.2	30.24	768.1	42.5	5.8	71	e.	2	0.9			10 s		sw.	0	0	cloudy	C. Dill.
Washington, D. C.	30.60	777.2	30.72	780.3	24.8	— 4.0	88	ne.	3	1.3		6 cs	hz.	sw.		inap.	inap.	fair	T. B. Harrison.
West Las Animas, Colorado	25.61	650.5	29.73	755.1	8.2	—13.2	100	ne.	8	3.6		0	3 s			0	0	clear	F. H. Brandenburg
Wilmington, N Carolina	30.51	774.9	30.57	776.5	36.0	2.2	69	ne.	5	2.2		6c;cs	3 s	e.		0.01	0.3	cloudy	L. H. Albrecht.
Yankton, Dakota	28.46	722.9	29.88	758.9	25.3	— 3.7	69	s.	10	4.5			10 s			0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.81	757.2	29.96	761.0	43.6	6.4	100	ne.	1	0.4			10s;fg		sw.	0.34	8.6	cloudy	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.82	757.4	29.84	757.9	32.4	0.2	85	ne.	28	12.5			10 n			0.02	0.5	snowing	George Cheruick.
Bluefields, Nicaragua, C. A.					75	23.9		nw.			1	0	7 n		ne.	0	0	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.02	559.2			51.8	11.0	83	calm	0	0		7 pc	0	se.		0	0		Joaquin Gomez.
Chimo, Fort, Ungava	30.20	767 1	30.36	771.1	—29	—33.9	100	sw.	19	8.5		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.16	766.1	70.2	21.2	87	n.	1	0.4			10 s		e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.04	763.0	30.05	763.3	75	23.9	90	e.			2		8 ks	e.	e.	0.500	12.7	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	77	25.0	89	s.			1	0	9 ks		s.	0	0	cloudy	Francisco J. Olsnero.
Rivas, Nicaragua, C. A.					75	23.9	92	ne.			2	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	29.98	761.5	30.05	763.3	—31.0	—35.0		w.	11	4.9		2 c	1 s	w.	w.	0.01	0.3	fair	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	30.01	762.3	30.02	762.6	77.0	25.0	87	n.	10.5	4.7		0	2 k		n.	0	0	clear	P. Fasiani.
Naos, Bay of Panama	29.99	761.8	30.06	763.4	72.3	22.4	91	nw.			4	0	1 k		n.	0	0	clear	Antonio Fabre.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
S.S. Assyrian Monarch, N. 49° 44′, W. 14° 12′ †	29.72	754.9	48	8.9		w.			3		4		w.	6 h'r	6 h'r	mod.	sw.	clear.
S. S. Alvo, Jacmel, Hayti. W. I *	30.20	767.1	68	20.0		var.			0–2		7		calm	0	0	short	s.	fair.
S. S. Alleghany. Boston, Mass †	30.72	780.3	20	— 6.7		n.			2		0			0	0			clear.
S. S. Ailsa, Cartagena, U. S. C			72.2	22.3	91	ene.			2		10		ne.	0	0	sm'h		overcast.
S. S. America, N. 47° —′, W. 33° —′			36	2.2	80	wnw.			3		10		nw.	4 h'r	4 h'r	long	nw.	overcast.
S. S. Alps, Kingston, Jamaica, W. I * †	30.10	764 5	78	25.6		n.			1		5		e.	0	0	short		
S. S. Adriatic, N. 51° 06′, W. 14° 50′ †	29.72	754.9				s.			3		2		se.			h'vy	s.	clear.
Schr. Annie R. Lewis, N. 27° 56′, W. 79° 37′	30.24	768.1	77	25.0		e.			4		10	sw.	e.	4 h'r	4 h'r	r'gh	var.	raining.
S. S. British Crown, N. 46° 14′, W. 29° 10′			47	8.3		nw.			3		9		nw.	2 h'r	2 h'r	mod.	nw.	gloomy.
S. S. Circassian, N. 55° 00′, W. 13° 00′	29.62	752.3	47	8.3	100	se.			6		9		se.			5	se.	overcast.
S. S. Caracas, N 18° 00′, W. 67° 45′ †	30.20	767.1	77.5	25.3	79	ene.			5		0			1 h'r	1 h'r	mod.	ene.	clear.
S. S. City of Washington, Havana, Cuba, W. I			80?	26.7?		s			2		2		e.	1 h'r	1 h'r	sm'h		fine.
S. S. Canada, (Br) N. 48° 20′, W 22° 53′ †	29.38	746.2	47	8.3	100	sw.			5		10		sw.	shr's	shr's	long	nw.	misty.
S. S. Chalmette, New York, N. Y			35	1.7		ne.			3					0	0			clear.
S. S. Devonia, N. 40° 30′, W. 72° 30′ †	30.77	781.5	32	0.0		ene.			3		4		ene.	3 h'r	3 h'r			fine.
S. E. J. Spicer, N. 34° 41′, W. 46° 10	30.30	769 6	65	18.3	89	w.			5		7		nnw.	0	0	cross		fair.
S. S. Frisia, N. 44° 37′, W. 46° 16′	29.89	759.2	41.0	5 0		n.			6		10		e.	4 h'r	4 h'r	sm'h	w.	snowing.
S. S. Grecian, N. 51° 41′, W. 30° 00′	29.35	745 5	37	2.8	90	wnw.			5		10		wsw.	3 h'r	3 h'r	high	nw.	raining.
S. S. Helvetia, N. 50° 36′, W. 20° 46′	29.40	746 7	46	7.8	92	ssw.			4		8		wsw.	2 h'r	2 h'r	long	wsw.	cloudy.
Bk. Havana, N. 37° 00′, W. 74° 47′			55?	12.8?	87	var.			4–5		8		sw.	10 h'r	10 h'r	long	s.	hazy.
Schr. Jennie N. Huddell, N. 36° 20′, W 75° 10′ †	30.58	776.7	40	4.4		e.			5		10		se.	0	0	long	e.	cloudy.
S. S. Lone Star, N. 33° 40′, W. 77° 30′ * †	30.50	774.7	50?	10 0?		nne.			4		10		ne.	0	0	r'gh	nne.	cloudy.
S. S. Mentmore, N. 50° 20′, W. 19° 37′ * †	29.38	746.2				wsw.			6		5		sw.	2 h'r	2 h'r	con.		gloomy.
S. S. Marengo, N. 44° 18′, W. 48° 40′ * †	29.89	759.2	31	— 0.6		nnw.			5		10			6 h'r	6 h'r	sm'h		snowing.
S. S. Orinoco, N. 37° 40′, W. 71° 00′ †	30.54	775.7	50	10.0		ne.			5		9		ne.	2 h'r	2 h'r	long	var.	cloudy.
S. S. Ohio, (Am.) Liverpool, Eng * †	30.00	762.0	42	5.6	83	ese.			2		8		e.	0	0			cloudy.
S. S. Pennsylvania, N. 49° 40′, W. 21° 55′ †	29.40	746.7	45	7.2	61	w.			5		6		w.	2 h'r	2 h'r	h'vy	sw.	rainy.
S. S. Rhynland, N. 49° 05′, W. 33° 00′	29.46	748.3	44	6.7	84	nw.			6		8		nw.	7 h'r	7 h'r	high	nw.	squally.
S. S. Sardinian, N. 46° 11′, W. 44° 20′	29.78	756.4	34	1.1		nne.			4		10			6 h'r	6 h'r	mod.	n.	snowing.
S. S. Switzerland, N. 42° 23′, W. 59° 50′ * †	30.55	776.0				nnw.			2		2		nnw.	2 h'r	2 h'r	light	nnw.	fair.
S. S. Samaria, Boston, Mass	30.70	779.8	27	— 2.8		calm			0		0			0	0			clear.
S. S. Sallier, N. 50° 09′, W. 23° 03′ *	29.37	746.0				s.			5		10		w.	6 h'r	6 h'r	cross		squally.
S. S. Valencia, Curacoa, W. I	30.05	763.3	80	26.7	78	e.			4		2		e.	0	0			fair.
Schr. Adda Doane, N. 17° 40′, W. 76° 24′ †	30.17	766 3				e.			3		4		e.	1 h'r	1 h'r	mod.	ese.	fair.
Bg. Alcira, N. 13° 50′, W. 71° 50′			79	26.1		ene.			5		6		e.	0	0	r'gh	ene.	squally.
S. S. Britannic, N. 49° 25′, W. 27° 35′ * †	29.41	747.0	46	7.8		nw.			6		6		nw.	4 h'r	4 h'r	mod.	nw.	d. clouds.
S. S. British Prince, N. 48° 57′, W. 24° 15′			47	8.3		s.			5		10		w; se.	4 h'r	4 h'r	long	nw.	raining.
S. S. Cienfuegos, N. 32° 38′, W. 75° 49′	30.41	772.4	62	16.7		ne.			4		3?		ssw.	0	0	large	nne.	cloudy.?
Bk. Chas. Stewart, Gibraltar, Mediterranean						e.			3		8		e.	0	0	sm'h	s.	fair.
Bk. Cato, N. 39° 00′, W. 29° 25′ †	29.87	758.7	60	15.6	94	wnw.			4		8		nw.	5 h'r	5 h'r	long	nw.	cloudy
S. S. Donau, N. 47° 34′, W. 32° 24′	29.61	752.1	46.4	8.0		ne.			4		10		ne.	0	0	long	n.	overcast.
S. S. Gallia, N. 40° 49′, W. 60° 15′	30.53	775.4	43	6.1		nne.			6		5		n.	shr's	shr's	mod	n.	squally.
S. S. Habsburg, N. 40° 55′, W. 64° 04′	30.57	776.5				nne.			5		10		ne.	5 h'r	5 h'r	mod.	nne.	overcast.
S. S. New York, N 36° 45′, W. 74° 30′ * †	30.60	777.2	45	7.2		ne.			5		5		n.	0	0	mod.	ne.	fair.
S. S. Pavonia, N. 50° 37′, W. 19° 21′			47	8.3	77	se.			4		6		se.	1 h'r	1 h'r	long	w.	cloudy.
S. Parker M. Whitmore, N. 50° 49′, W. 11° 10′ * †	29.68	753.9	52	11.1		se.			1		3		ese.	3 h'r	3 h'r	short	ese.	fair.
S. S. Sirius, N. 18° 22′, W. 57° 57′	30.16	766.1				ene.			5		2		ene.	0	0	high	ene.	clear.
Bk. Saga, N. 33° 01′, W. 75° 59′ †	30.39	772.0	62	16.7					7		10			9¾ hr	9¾ hr			cloudy.
S. S. Vaderland, N. 46° 20′, W. 37° 10′			49	9.4		nnw.			5		5		w.	16 h'r	16 h'r	mod	nw.	
S. S. Virginian, N. 42° 31′, W. 60° 00′			41	5.0		sse.			3				sse.	0	0	sm'h		fine.
S. S. Wyoming, N. 41° 12′, W. 61° 44′	30.54	775.7	34	1.1		n.			6		7		n.	0	0	long	nne.	gloomy.
S. S. Wieland, N. 43° 22′, W. 56° 21′			30	— 1.1		n.			6		10		n.	3 h'r	3 h'r	cross	n.	clearing.
S. S. Westphalia, Hamburg, Germany			36	2.2	90	se.			4		8		se.					cloudy.
S. S. St. Laurent, N. 40° 56′, W. 64° 45′			39.2	4.0		nne.			5		10		n.	5 h'r	5 h'r	r'gh	nne.	overcast.
S. S. Crescent City, N. 16° 16′, W. 75° 54′ * †	30.09	764.3	76	24.4		ene.			3								ne.	fine.
S. S. Reliance, N. 28° 06′, W. 70° 11′			74	23.3		calm			0							small	nw.	clear.
S. S. Nurnberg, N 52° 59′, E. 3° 47′	30.21	768.1	35.6	2.0		ese.			6		3		ese.	0	0	r'gh	ese.	cloudy.
U. S. Navy Yard, Portsmouth, N. H *	30.66	778.7	13	—10.6	81	n.	5	2.2			0			0	0			clear.
U. S. S. Alliance, San Juan, Porto Rico, W. I	30.19	766.8	74	23.3	86	e.			2		2		e.	light	light	sm'h		clear
U. S. S. Kearsarge, Naples, Italy	29.92	760 0	56	13.3	81	nne.			1		10		w.					cloudy.
U. S. S. Lancaster, Naples, Italy	29.93	760.2	54	12.2	100	nnw.			2		5			mod.	mod.	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.72	780.3	20	— 6.7	100	ne.			2		0					sm'h		clear.
U. S. S. Portsmouth, Norfolk, Va	30.63	778.0	34	1.1	100	ne.			2		10		se.					cloudy.
U. S. S. Powhatan, Boston, Mass	30.74	780.8	18	— 7.8	100	nnw.			2		0							clear.
U. S. S. Quinnebaug, Leghorn, Italy	29.89	759.2	55	12.8	74	nne.			2		8		nw.			sm'h		fair.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.14	765.5	72	22.2	85	calm			0		2		calm	0	0	sm'h		clear.
U. S. S. Trenton, Naples, Italy	29.93	760.2	50	10.0	79	nne.			1		10		ne.					cloudy.
U. S. S. Vandalia, Curacoa, W. I	30.05	763.3	77	25.0	82	ene.			2		2		e.					fair.
U. S. S Yantic, New York, N. Y	30.76	781.3	28	— 2.2	?	ne.			2		2							clear.
H. M. S. Alexandra, Malta, Mediterranean	30.04?	763.0?	67	19.4	84	sse.			2		3		sse.					d. clouds.
H. M. S. Boadicea, Sierra Leone, Senegambia	29.94	760.5	80	26.7	96	ese.			2		5		ese.					d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.26	768.6	67	19.4	95	ssw.			3		6		wsw.					d. clouds.
H. M. S. Himalaya, N. 31° 00′, W. 45° 00′	30.27	768.8	65	18.3	73	wnw.			3		9						2	nnw.	d. clouds.
H. M. S. Minotaur, Palermo, Sicily	29.94	760.5	61	16.1	77	n.			4		2								d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.88	758.9	89.2	31.8	84	sse.			1		5		se.	0	0	1	se.	d. clouds.
S. S. British Princess, N. 39° 43′, W. 59° 54′			46	7.8		ne.			6		10			16 h'r	16 h'r	r'gh	cross	clearing
S. S. Prussian, N 49° 57′, W. 25° 19′			47	8.3		sse.			4		10		sse.	7 h'r	7 h'r	cross	nne.	drizzling.
S. S. Scandinavian, Glasgow, Scotland	30.15	765.8	40	4.4		ese.			5		6		ese.	0	0			d. clouds
S. S. Alpin, N. 35° 00′, W. 71° 00′ * †	30.45	773.4	58	14.4		ne.			3		8		e.	0	0	mod.	ne.	foggy.
S. S. Dorian, N. 50° 01′, W. 26° 12′	29.41	747.0	48	8.9		sw.			5		8	nw.	sw.	8 h'r	8 h'r	mod.	nw.	cloudy.
S S. Llandaff City, N. 48° 22′, W. 22° 12′ * †	29.42	747.3	46	7.8		sw.			6		8			0	0			squally.
S. S. Wisconsin, N. 47° 20′, W. 38° 44′	29.59	751.6	48	8.9		nw.			4		10		nw.	4 h'r	4 h'r	mod.	nnw.	cloudy.
S. S. Bohemia, N. 49° 29′, W. 9° 26′						w.			4–5		5?		w.	2 h'r	2 h'r	long	sw.	clear.?
S. S. Rhaetia, N. 48° 36′, W. 36° 19′			44	6.7		nw.			4		7		n	0	0	long	nw;n	cloudy.
S. S. Rosse, N. 6° 53′, W. 27° 27′	29.97	761.2	81	27.2	68	ne.			3		7		ne.	0	0	long	nnw.	fair.
S. S. Archimede, (It) Palermo, Sicily			70?	21.1?		nne.			3		6		nne.	0	0			cloudy.
S. S. Picqua, N. 42° 05′, W. 35° 46′ * †	29.85	758 2	60	15.6	94	nw.			3				nw.	4 h'r	4 h'r	high	nw.	cloudy.
S. S. Ontario, N. 48° 09′, W. 35° 50′			44	6.7		var.			3		9		var.	5 h'r	5 h'r	mod.	wsw.	misty.
S. S. Denmark, N. 45° 30′, W. 24° 40′ †	29.52	749.8	51	10.6	93	ssw.			6					9 h'r	9 h'r	long	var.	drizzling.
S. S. England, N. 40° 35′, W. 65° 08′	30.57	776.5				ne.			5		5		ne.	0	0	mod.	ne.	d. clouds.
S. S. Erin, N. 41° 51′, W. 59° 10′			31	— 0.6		n.			5		9		nne.	8 h'r	8 h'r	short	n.	cloudy.
S. S. Leipzig. N. 27° 44′, W. 26° 56′ *	30.10	764.5	68.5	20.3	97	n.			5		5?		n.	1 h'r	1 h'r	r'gh	n.	cloudy?
S. S. Strassburg. N. 48° 16′, W. 5° 46′	29.77	756.1	47.0	8.3	92	se.			4		10		sse.	10 h'r	10 h'r	5	sw.	misty
S. S. City of Augusta, New York, N. Y						nw.			3		4		wsw.	0	0			cloudy.?
S. S. Muriel, N. 31° 57′, W. 68° 26′	30.41	772.4	65	18.3		nne.			4		10			2 h'r	2 h'r	r'gh	ne.	drizzling.
S. S. Waesland, Antwerp, Belgium			37	2.8		ese.			6		0			0	0			clear.
S. S. Westernland, Jersey City, N. J.	30.71	780.0	36	2.2	90	ne.			3		0			0	0			clear.
S. S. W. A. Scholten, Rotterdam, Netherlands			34.3	1.3	95	se.			4		8		e.	0	0			fair.
S. S. Zaandam, N. 44° 43′, W. 24° 11′			59.0?	15.0?	90	sw.			5		10			10 h'r	10 h'r	long	sw.	cloudy.
S. S. State of Nevada, N. 42° 49′, W. 58° 33′			28	—2.2		nne.			6		8?		ese.	snow	snow	mod.	ssw.	clear.?
S. S. Saxon, N. 39° 47′, W. 75° 20′			25	— 3.9		nne.			1		5			0	0			fine.
S. S. Celtic, Liverpool, Eng * †	30.12	765 0	46?	7.8?		ese.			5		6		se.	0	0			fine.
S. S. Lepanto, N. 36° 32′, E. 1° 12′			63	17.2		ssw.			3		2		ne.	0	0	sm'h		clear.
S. S. Romano, Hull, England			49	9.4		se.			3		10			0	0			dull.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Salerno, New York, N. Y †	30.70	779.8	22	— 5.6		ne.			5		5		ne	0	0			fair.
S. S. Antonio Lopez, Barcelona, Spain	29.91	759.7	55.5	13.1	87	e.			1	10 c				1 h'r	1 h'r			squally.
Bgt. Achsah, N. 29° 32′, W. 61° 24′ †	30.37	771.4	71	21.7		ne.			1		2		ne.	0	0	long	se.	clear.
S. Armenia, N. 51° 44′, W. 16° 10′ *	29.55	750.6	51	10.6	79	ssw.			5		3			0	0	r'gh	var.	fair.
Bk. Adelaide, N. 2° 12′, W. 30° 14′ *†	29.97	761.2	84	28.9		nne.			5		8		e.	0	0	mod.	nne.	cloudy.
S. S. Braeadaile, N 40° 15′, W. 03° 00′						se.			3		1		se.	0	0	sl't	ene.	clear.
Bk. Benjamin Dickerman, N. 32° 30′, W. 61° 00′*†	30.41?	772.4?	71	21.7		ssw.			5		1		sw.	0	0	h'vy	ne.	clear.
S. Cornelius, N. 38° 10′, W. 62° 48′ *†	30.48	774.2	52.2	11.2		nne.			5		8		ne.	14 h'r	14 h'r	cross	var.	cloudy.
S. Dora, N. 50° 19′, W. 30° 30′ †	29.35	745.5	41.0	5.0		wnw.			4		5?		nw.	4 h'r	4 h'r	mod.	nw.	cloudy.?
S. David Stewart, Barbadoes, W I			75	23.9		ene.			5		3		ene.	sh'rs	sh'rs			
Schr. Edith R. Seward, N. 31° 33′, W. 58° 45′†	30.36	771.1	70	21.1		w.			1		8		wsw.	0	0	mod.	se.	cloudy.
Bk. Fred W. Carlon, Progreso Roads, C. A†	30.11	764.8	80	26.7		se.			5		0			½ h'r	½ h'r	r'gh	n.	clear.
Bk. Gloire, N. 25° 32′, W. 67° 46′ *	30.27	768.8	82	27.8		e.			3		3		e.	0	0	sm'h		clear.
Bk. George Davis, N. 39° 49′, W. 50° 10′						w.			7				w.	1 h'r	1 h'r	high	wnw.	covered.
Bk. Galeon, Grimsby Road, Eng†	30.19	766.8	39	3.9		ese.			6		10		ese.					snowing.
S. Hedwig, N. 45° 18′, E. 13° 20′	30.10	764.4	54.0	12.2	87	calm			0		10		ese.	0	0	3	ene.	overcast.
Bk. Hattie G. McFarland, N. 22° 43′, W. 85° 01′†	30.17	766.3	78	25.6		ese.			4		4		e.	4 h'r	4 h'r	long	se.	fine.
S. Henry, N. 38° 51′, E. 18° 14 *	29.93	760.2	57.4	14.1		ssw.			4–5		8 k					5	var.	cloudy.
Bg. John Wesley, N. 23° 50′, W. 81° 13						se.			4		7		sse.	0	0	sm'h	sse.	fair.
Schr. John L. Thomas, South Hobbles Cays, C. A †	30.08	764.0	77	25.0	82	ese.			2		1		ese.	0	0			clear.
S. S. Laurel, off Alligator Reef Light, Fla †	30.19	766.8	78	25.6		se.			1–2		9		se.	sh'rs	sh'rs			cloudy.
Bg L. F. Munson, N 27° 10′, W. 62° 31′			74	23.3		se.			2		3		sse.	0	0	mod.	se.	fair.
S. S. Madrid, Shields, Eng†	30.23	767.8	42	5.6	91	e.			6		10		e.	1 h'r	1 h'r			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga						ne.			5					6 h'r	6 h'r			rainy.
Schr. Maggie Abbott, N. 35° 35′, W. 72° 10′*†	30.45	773.4				ne.			6		10		sw.	snow	snow	long	ne.	cloudy
Schr. Norena, Ponce, Porto Rico, W. I†	30.12	765.0				ene.			2		3		ene.	0	0			fine.
Bk. Orpheus, N. 51° 51′, W. 19° 31′*	29.46	748.3	52	11.1		wsw.			4		6 k		nnw.			mod.	sw.	fair.
Bg. Rising Sun, N. 13° 32′, W. 61° 05′†	30.05	763.3	80	26.7		ene.			5		1		ene.	0	0	long	ene.	clear.
S. S. Radnorshire, off Cape St. Vincent, Portugal						sw.			9		10		var.	3 h'r	3 h'r	h'vy	nnw.	threatening.
Bk. Sunbeam, N. 39° 06′, W. 68° 46′*†	30.58	776.7	39	3.9	82	nne.			6		7		ne.	8 h'r	8 h'r	mod.	ne.	cloudy.
Bgt. Sunlight, N. 32° 30′, W. 61° 37′†	30.32	770.1				ssw.			4		4		sw.	0	0	mod.	w.	fair.
S. St. David, N. 10° 45′, W. 36° 13′			77	25.0	77	nne.			6		9		ne.	2 h'r	2 h'r	long	ne.	squally.
S. Stephen D. Horton, Antwerp, Belgium †	30.16	766.1				ene			5		3		e.	0	0			clear.
Bk. Silica, off Wolf Rock, Eng*	29.80	756.9				e.			4		8		ese.	0	0	mod.		cloudy.
S. Vincenzo Accame, N. 38° 40′, W. 57° 15′ †	30.33	770.3	57.2	14.0		n			7		8		n.	2 h'r	2 h'r	cross	var.	stormy.
S. S. Maasdam, N. 43° 00′, W. 44° 00′				10.0		ssw.			7							high	sw.	rainy.
S. S. Strathleven, N. 48° 27′, W. 21° 32′						sw.			4		6		w.			6	wsw.	squally.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.87	758.7	74	23.3	59	nnw.			2		5		nw.					fair.
H. M. S. Amethyst, Montevideo, Uruguay	29.79	756.7	73	22.8	60	n.			1		8	se.						d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony*†	30.04	763.0	68	20.0	71	se.			3		1							blue sky.
H. P. M. S. Rainha de Portugal, Banana, Guinea	29.84	758.0	80.2	26.8	79	wnw.			1		9			1 h'r	1 h'r	1		thund'r st'm
H. P. M. S. Bengo, S. 3° 58′, E. 3° 14′	29.90	759.4	81.2	29.0	85	ssw.			3		8		ssw.	0	0	2	ssw.	blue sky.
S. S. Hevelius, S. 5° 26′, W. 30° 15′*†	30.06	763.5	84	28.9		sse.			4		3		s.	0	0			clear.
Bk. Celestina, S. 16° 48′, W. 34° 23′*†	30.04	763.0				ne.			3		2		ne.	0	0	light	ne.	clear.
S. S. George S. Homer, S. 31° 04′, W. 32° 55′*†	29.90	759.4				calm			0		2		ene.	8 h'r	8 h'r	r'gh	sw. e.	clear.
Bk Godeffroy, S. 1° 24′, W. 33° 02′	29.90	759.4	80.4	26.9	92	ene.			1–2		7			rain	rain	mod	n; ne.	cloudy.
S. Grecian, S 39° 33′, W. 34° 42′†	29.75	755.6	59	15.0	88	sw.			6		8		sw.	light	light	long	sw.	cloudy.
S. Henry Failing S. 33° 15′, W. 25° 02′*†	30.05	763.3	70	21.1		nnw.			3		10		nw.	15 h'r	15 h'r	sm'h	sw.	raining.
Bk. Horace Scudder, Congo river, Guinea *†	30.05	763.3	86	30.0		se.			3		8		se	2 h'r	2 h'r			fair.
Bkt. Levanter, Montevideo, Uruguay*	29.88	758.9	73	22.8		n.			2		3			0	0	sm'h		hazy.
Bk. Winifred, S. 15° 01′, W. 34 25′ *†	30.00	762.0											ne.	0	0		ene.	
S. Orealia, S. 38° 45′, W. 13° 45′*	29.99	761.7				nne.			5		10		nne.	0	0	sm'h		overcast.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 30° 24′, E. 130° 42′	30.07	763.8	56	13.3	69	nnw.			6		2		nnw.			rg'h	nnw.	fair.
U. S. S. Essex, Canton, China	30.05	763.3	63	17.2	94	nnw.			1		10							overcast.
U. S. S. Hartford, N. 15° 31′, W. 136° 04′	30.03	762.7	73	22.8	90	nne.			4		10		n.	0	0	sm'h		cloudy.
U. S. S. Juniata, N. 32° 02′, E. 125° 12′			41	5.0	82	nnw.			5		0			0	0	mod.	nnw.	clear.
U. S. S. Monocacy, Ningpo, China	30.26	768.6	41	5.0	49	nnw.			2		5		nw.					fair.
U. S. S. Palos, Tientsin, China	30.12	765.0	28	— 2.2		wsw.			1		0							clear.
H.M.S. Audacious, Victoria harbor, Hong Kong, China	30.02	762.5	63	17.2	89	e.			2		8	e.						overcast.
H. M. S. Cleopatria, N. 24° 20′, E. 118° 05′	30.05	763.3	63	17.2	83	nne.			3		10	ne.				1		overcast.
H. M. S. Champion, Shanghai, China	30.27	768.8	43	6.1		calm			0		0							blue sky.
H. M. S. Flying Fish, N. 24° 20′, E. 118° 04′			56.8	13.8	84	e.			4		10					4	e.	misty.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.84	757.9	85.5	29.7	77	ne.			1		0							misty.
H. P. M. S. Tamega, Macao, China	30.06	763.6	64.4	18.0	80	calm			0		10			20 h'r	20 h'r			overcast.
S. S. Newbern, N 24° 14′, W. 109° 26′ *†	30.11	764.8	68	20.0	84	w.			3		5		wnw.	0	0	small	wnw.	fair.
S. S. Oceanic, N. 41° 44′, W. 146° 10′	29.54	750.3	49	9.4	85	nw.			3		9		nw.	0	0	3	e.	cloudy.
S. S. Oregon, N. 45° 36′, W. 124° 05′†	29.48	748.8	41	5.0	65	n.			2		5		wsw.			light	ssw.	fair.
S. S. Alameda, N. 36° 51′, W. 125° 03′†	29.64	752.8	47	8.3		wsw.			6		10			24 h'r	24 h'r	r'gh	wsw.	overcast.
S. S. Ancon, Piedra Blanca, Cal	29.75	755.6	58	14.4	82	sw.			5		9		sw.	0	0	r'gh	sw.	cloudy.
S. S. City of Chester, Eureka, Cal †	29.38	746.2	49	9.4	?	calm			0		10			light	light			rainy.
S. S. Queen of the Pacific, San Francisco, Cal	29.52	749.8	53	11.7	93	ssw.			7		4		s.	23 h'r	23 h'r	sm'h		fair.
S. S. State of California, San Francisco, Cal †	29.60	751.8	50	10.0	93	sw.			4		10		sw.					cloudy.
S. S. Eureka N. 49° 10′ W. 123° 57′			30	— 1.1	89	w.			3		10			0	0	sm'h		cloudy.
S. S. Australia, N. 12° 30′, W. 162° 07′	30.13	765.3	77	25.0	91	e.			5		3		e.	0	0	mod.	e.	clear.
S. S. Colima, Acajutla, San Salvador†	30.05	763.3	77	25.0	69	calm			0		2		calm	0	0	small	sw.	clear.
S. S. Granada, N. 27° 16′, W. 114° 42′ †	30.06	763.5	62	16.7	72	nw.			3		0			½ h'r	½ h'r	light	var.	clear.
S. S. San Blas, La Libertad, San Salvador†	30.00	762.0	70	21.1	100	n.			2		2		ne.	0	0	sm'h	sse.	clear.
S. S. San Jose, N. 34° 27′, W. 121° 02′ *†	29.89	759.2	53	11.7		sw.			6		10		sw.	16 h'r	16 h'r	h'vy	sw.	stormy.
S. Carondelet, N. 33° 46′, E. 138° 04′ *†	29.78	756.4				nw.			7		2		nw.	2 h'r	2 h'r	mod.	sw.	clear.
S. St. Francis, N. 16° 00′, W. 122° 45′ *†	30.15	765.8	72	22.2	80	nne.			4		7		nne.	¼ h'r	¼ h'r	mod.	nne.	fair.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, Callao, Peru *	30.01	762.2	72	22.2	100	se.			1		5		calm			sm'h		fair.
H. M. S. Espeigle, S. 46° 45′, E. 169° 25′	29.66	753.4	54	12.2	87	sw.			5–6		7					4	sw.	showery.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.10	764.5	63.3	17.4	78	w.			3		8					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	30.14	765.5	59	15.0	88	calm			0		10							overcast.
S. S. Zealandia, Sydney, N. S. W.	30.06	763.5	74	23.3	86	w			2		2			0	0			clear.
S. Ismir, S. 48° 14′, W. 84° 28′ *†	29.82	757.4				ssw.			9		10		ssw.	4 h'r	4 h'r	h'vy	var.	rainy.
S. S. Port Phillip, Sydney, N. S. W.	29.98	761.5	76	24.4	82	s.			4							sm'h		hazy.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.97	761.2	64	17.8		calm			0		0					sm'h		
H. M. S. Sylvia, off Sandy Point, Patagonia	29.42	747.3	42.5	5.8	78	w.			2–4		7	w.						squally.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.90	759.4	73	22.8	72	ne.			3		3							d. clouds.
H. M. S. Tourmaline, Mananhar, Madagascar	29.93	760.2	79	26.1	91	nw.			1		2							d. clouds.

International Chart I. February 16, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 17, 1884,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.67	753.7	75.9	24.4	80	n.			6		10			0	0		Roziere.
Algiers			29.82	757.4	70.2	21.2	48	se.			2		10			0	0		Thève.
La Calle			29.88	759.0	63.0	17.2	78	e.			3		3			0	0		Fouriéde.
Tunis			29.97	761.1	55.4	13.0	64	n.			3		5			0	0		Delord.
Geriville					57.2	14.0	18	se.			8		2			0	0		Forfert.
Laghouat			30.08	763.9	67.8	19.6	78	ne.			1		0			0	0		Abraham.
Biskra			30.03	762.8	71.6	22.0	64	calm			0		0			0	0		Gouzon.
Australian.																			
Adelaide, South Australia			30.07	763.8	69.0	20.6	83	calm	0	0		2 c				0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.84	757.9	30.03	762.7	58	14.4	94	sse.	10	4.5			10		sse.	0.06	1.5	cloudy	Com. J. Shortt, R.N.
Melbourne, Victoria	29.85	758.2	29.95	760.7	70.6	21.4	70	ne.	6	2.7			2			0.02	0.5		R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.77	756 1	30.35	770.8	35.6	2.0	42	ne.			4		6			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.64	752.8	30.45	773.4	29 5	— 1.4	68	e.	12.5	5.6			0			0	0		Dr. Wierzbiski
Eperies	29.50	749.2	30.44	773.1	27.7	— 2.4	55	calm			0		0			0	0		Julius Mikolik.
Gratz	29.07	738.4	30.40	772.1	31.6	— 0.2	66	e.			1		10			0.012	0.3		Andreas Rospini.
Hermannstadt	28 86	733.0	30.39	771.8	27.7	— 2.4	85	ese.			3		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.84	732.6	30.26	768.7	29.8	— 1.2	80	e.			5		1			0	0		The Staff.
Lemberg	29.45	747.9	30.50	774.8	27.3	— 2.6	58	se.			2		10			0	0		Dr. T. Stanecki.
Pola	30.09	764.3	30.21	767.2	40.1	4.5	53	ene.			6		0			0	0		I. R. Hydrographic Office.
Szathmar	29.89	759.3	30.39	771.9	30.4	— 0.9	58	ne.			3		0			0	0		Joseph Midlinszky, S. J
Szegedin	30.09	764.2	30.39	771.8	32.4	0.2	64	calm			0		10			0	0		Karl Stancel.
Trieste	30.16	766.1	30.26	768.6	39.0	3.9	53	ne.			6		0			0	0		Royal Academy.
Vienna	29.66	753.4	30.42	772.6	31.3	— 0.4	73	se.			2		6			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.65	727.7	30.08	763.9	39.2	4.0	97	e.			2		1			0	0		
Brussels	29.86	758 2	30.06	763.5	39.7	4.3	63	ese.			4	1		n.		0	0		
Furnes	29.99	761.7	30.01	762.2	38.7	3.7	71	e.			1-2		4			0	0		
Maeseyck	30.01	762.2	30.13	765.4	45.0	7.2	42	e.			2		0			0	0		
British.																			
Aberdeen	30.02	762.5	30.13	765.3	39.6	4.2	73	se.	26	11.6			10			0	0	overcast	W. Boswell.
Bidston, Liverpool Obs'y			29.88	758.9	40.7	4.8	70	ese.	23	10.3			10					overcast	John Hartnup.
Bolton, Sharples	29.34	745.2	29.89	759.2	39.6	4.2	73	se.	20	8.9			10					gloomy	Thomas Mackereth.
Bradford, Yorkshire	29.57	751.1	29.97	761.2	39.9	4.4	82	e.			2		8			0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.02	762.5	30.05	763.3	79	26.1	71	e.			5		8					overcast	Corp'l O. McGregor, A.H.O
Cardington					41.0	5.0	76	se.			1.0		9					overcast	John McLaren.
Chatham, School M. E.	29.78	756.4	29.96	761.0	43.7	6.5	70	se.			2		8					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.51	749.5	29.74	755.4	44.1	6.7	94	ene.			2		10					raining	The Staff.
Fort Napier, Natal	27.64	702 0	29.95	760.7	73.2	22.9	74	ne.			1		8					overcast	Corp'l O. Stares, A.H.O.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.65	753.1	29.69	754.1	43	6.1	92	se.			2		8			0.25	6.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.56	750.8	29.66	753.4	62.8	17.1	89	ne.			3		7					d. clouds	Sgt. F. Norris, A. H.O.
Greenwich, Royal Obs'y	29.77	756.1	29.94	760.5	40.8	4.9	74	e.					7					d, clouds	The Staff.
Guernsey	29.48	748.8	29.78	756.4	45.6	7.6	88	ese.			1		10			blank	blank	overcast	A. Collenette, F.R.M.S.
Kew, Observatory	29.91	759.7	29.94	760.5	40.6	4.8	72	e e.	21	9.4			9					d. clouds	The Staff.
Leicester, Museum	29.72	754.9	29.98	761.5	41.7	5.4	15	se.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.65?	753.4?	29.73?	755.1?	63.4	17.4	80	sw.			2		6			0	0	d. clouds	Corpl. H. Keene, A. H. O.
Nassau, Bahamas	30.15	765.8	30.30	769.6	75.0	23.9	72	se.			1		2					blue sky	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.68	753.9	29.90	759.4	40.1	4.5	73	ese.			3		10					drizzling	The Staff.
Plymouth	29.66	753.4	29.73	755.1	43.4	6.3	98	ese.			2		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.94	760.5	30.01	763.0	39.9	4.4	82						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.06	763.5	30.13	765.3	40.0	4.4	68	ne.			2		8					d. clouds	W. H. Lyne.
Sheffield	29.69	754.1	29.98	761.5	41.2	5.1	78	se.			2		8			blank	blank	overcast	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss					41.7	5.4	81	se.			1.5		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.64	752.8	29.67	753.6	48.4	9.1	79	se.	19	8.5			4			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.52	749.9	29.91	759.7	60.4	15.8	75	e.	6.8	3.0		0	8 n		e.	0	0	hazy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.24	768.1	30.28	769.1	21.0	— 6.1		calm	0	0			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.37	771 4	30.41	772.4	24	— 4.4	84	s.	12	5.4			10 s			0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.27	768.8	30.34	770.6	23	— 5.0	92	sw.	8	3.6		5 cs	5 ks	sw.	sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	30.04	763.0	30.24	768.1	16.2	— 8.8	95	e.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.24	768.1	30.29	769.4	12.0	—11.1		calm			0		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.19	766.8	30.21	767.3	21	— 6.1	87	sw.	12	5.4		5 cs	5 s	sw.	sw.	0	0	cloudy	J. McWilliams
Fort Garry, Manitoba*	29.47	748.5	30.46	773.7	—18	—27.8	64	n.	18	8.0			10 n		n.			snowing	James Stewart.
Fredericton, N. B	30.34	770.0	30.41	772.4	26.0	— 3.3	81	calm	0	0		0	0			0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B	30.38	771 6	30.43	772.9	34	1.1	82	w.	17	7 6			10 n					light snow	J. Chipman Seeley
Granton, Ontario	28.99	736.3	30.14	765.5	33.0	0.6	100	se.	2	0.9			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.39	771.9	30.53	775.4	26	— 3.3	96	sw.	2	0.9		5 k	0	w.		0	0	fair	A. Allison.
Hamilton, Ontario	29.74	755.4	30.18	766.6	25.7	— 3.5	87	ne.			1	10 cs	0	ne.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.89	759.2	30.25	768 3	30	— 1.1	81	calm	0	0		10 ks	0			0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.34	770.6	30.38	771.6	31.0	— 0.6	100	sw.	6	2.7		4 k	0			0	0	fair	C. H. Rigby.
London, Ontario	29.18	741.2	30.11	764.8	33.8	1.0	70	se.			1		10 ks			0.28	7.1	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.70	703.6	30.38	771.6	—21	—29.4	60	ne.	25	11.2			10 n			0.04	1.0	cloudy	John Ewart.
Minnedosa, N. W. T	28.23	717.0	30.55	776 0	—22	—30.0	100	ne.	10	4.5		0	8 n		ne.	0.04	1.0	light snow	Rev. J. M. Wellwood.
Montreal, Quebec*	30.08	764.0	30.30	769.6	27	— 2.8	84	s.	11	4.9			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.04	763.0	30.28	769.1	19.5	— 6.9	89	ene.				0	4 ks			0	0	d. clouds	A. McCill, M. A.
Parry Sound, Ontario*	29.41	747.0	30.14	765.5	27	— 2.8	92	e.	6	2.7		2 k	5 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.39	746.5	30.17	766.3	26.3	— 3.2	86	ne.			1		10 k			0	0	misty	Wm. O'Connor, M.A.
Port Arthur	29.40	746.7	30.17	766.3	0	—12.8	100	nw.	6	2.7			10 n			0.10	2.5	light snow	W. P. Cooke.
Port Dover, Ontario	29.43	747.5	30.15	765.8	33	0.6	89	calm	0	0			10 cs			0	0	cloudy	A. Morgan.
Port Stanley, Ontario	29.45	748.0	30.12	765.0	33	0.6	85	e.	11	4.9			10 n		e.	0	0	cloudy	M. Pavne.
Qu Appelle, N. W. T	27.73	704.3	30.42	772.7	—26	—32.2		e.	4	1.8		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.92	760.0	30.30	769.6	18	— 7.8	87	calm	0	0		10 cs	0			0	0	hazy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.68	753.9	30.16	766.1	23	— 5.0	84	e.	2	0.9			10 s		w.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.35	770.9	30.41	772.4	30	— 1.1	91	w.	3	1.3			8 k			0	0	cloudy	
St. John, N. B	30.27	768.8	30.42	772.7	31.4	— 0.3	96	sw	8	3.6		5 k	5 k	sw.		0	0	overcast	G. Hutchinson.
St. Pierre, N. F			30.39	772.0	24.8	— 4.0		w.			2								The Commandant.
Saugeen, Ontario*	29.25	745.5	30.09	764.3	33	0.6	92	se.	7	3.1			10 s			0	0	cloudy	
Stratford, Ontario	28.84	732.5	30.18	766.6	32.0	0.0	93	calm	0	0			10 s			0	0	overcast	W. McBride, M.A.
Sydney, C. B*	30.43	772.9	30.50	774.7	17	— 8.3	96	sw.	16	7.2		8 c	0	w.		0	0	fair	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.79	756.7	30.20	767.1	31	— 0.6	88	se.	6	2.7			10 s		w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.06	738.1	30.17	766.3	33.0	0.6	81	se.	8	3.6			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.40	772.1	30.47	773.9	33	0.6	85	s.	6	2.7		10 k	0	w.		0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.05	763.3	30.08	764.0	71.5	21.9	85	sw.				0	0			0	0	clear	I. Garfelt.
Cape Town, The Castle	29.87	758.7			77.5	25.3	52	ne.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			89	31.7	34									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.87	758.7	29.95	760.6	63.5	17.5	90	n.			2	2		n.				clear	Samuel Redolez.
Iquique	29.93	760.1	29.95	760.8	73.4	23.0	78	nw.			2	4 c						foggy	Rafael Moreno.
Niebla	29.60	751.8	29.71	754.5	59.0	15.0	89	e.			2		3 n		s.	0	0		Federico Köhling.
Punta Caldera	29.89	759.2	29.98	761.4	63.5	17.5	85	se.			2	6 c		se.				fair	Manuel Tobar.
Punta Corona	29.89	759.3	30.08	764.0							3	10 n				0	0	cloudy	Francisco Alvarado.
Valparaiso	29.84	757.6	29.97	761.3	62.6	17.0	90	s.			1	0	0					clear	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.28	769.1	30.30	769.7	41.4	5.2	76	e.	6.0	2.7			10			0	0	covered	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.48	774.2	30.53	775.4	32.7	0.4	87	se.	13	6			10						Oversergent Fischer.
Fanöe	30.42	772.6	30.44	773.1	32.9	0.5	85	ese.			6		5						Overloerer Lauridsen.
Godthaab, Greenland	28.93	734.9	28.98	736.0	2.7	—16.3	100	sw.			4–6		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.15	740.3	29.17	740.8	6.6	—14.1		nw.			4–6		10					snowing	
Jacobshavn, Greenland	28.49	723.7	28.54	724.9	24.4	— 4.2		sse.			4		6						
Stykkisholm, Iceland	29.30	744.1	29.34	745.2	40.8	4.9	78	se.			6		5						A. O. Thorlacius.
Thorshavn	29.95	760.6	29.97	761.2	41.0	5.0	86	sse.	18	8			10						Overloerer Bergh.
Upernavik, Greenland	28.71	729.2	28.76	730.4	15.8	— 9.0		e.			2		2						
Vestervig	30.36	771.2	30.45	773.5	32.9	0.5	78	e.			4		9						Loerer Oesterbol.
Egyptian.																			
Cairo	29.94	760.5			59.9	15.5		sw.	3.8	1.7		0	6 k			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.19	741.5	29.84	757.8	56.1	13.4	86	se.			1		9 n	se.	se.	0	0	misty	M. Labroue, Director.
Alençon, Normal School	29.28	743.7	29.83	757.7	42.8	6	85				1		2 s			0	0	slightly cl'dy	M. Nicot, Director.
Arras, Normal School	29.69	754.2			42.3	5.7	62	e.			2		0			0	0	clear	M. Ungerer, Director.
Avignon, Normal School	29.94	760.5	30.02	762.5	55.4	13	48	sse.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.38	746.2	29.94	760.4	48.0	9.2	61	se.			1		8			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.69	754.0	29.96	760.9	40.3	4.6	65	e.			2		2			0	0	slightly cl'dy	M. Frère Eugene Marie.
Besançon, Normal School	29.03	737.3	29.91	759.6	43.7	6.5	70	ne.			1		cn		sw.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.50	749.2	29.76	755.8	56.1	13.4	73	ese.			2		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.35	745.5	29.90	759.5	51.8	11	83	ene.			1		cs;k		ene.	0.012	0.3		M. Sauvageot, Director.
Brest, Naval Observatory	29.54	750.3	29.78	756.4	44.2	6.8	94	calm			0		10			0.079	2.0	raining	M. de Kermarrec, Dir.
Caen, Normal School	29.72	755.0	29.80	756.9	45.7	7.6	94	sse.			1		5		s.	0.08	2.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.65	753.2	29.98	761.5	44.4	6.9	67	se.			2		2		se.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.50	749.2	30.02	762.6	43.2	6.2	88	e.			1		5			0	0	½ covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.48	723.3	29.82	757.3	57.2	14.0	51	s.			2		5			0.004	0.1		M. Alluard, Director.
Cluny, Normal School	28.96	735.5	29.85	758.2	51.8	11.	52	se.			1		2		se.	0	0	slightly cl'dy	M. de Villemontée, Dir.
Commercy, Normal School	29.17	741.0	30.08	764.1	38.3	3.5	58	ene.			4		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.46	697.5	30.05	763.3	44.2	6.8	74	sw.			1		4 kn			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.87	733.2	30.00	762.0	51.3	10.7	44	se.			4		5		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.17	741.0	29.95	760.7	49.3	9.6	79	e.			1		k		nw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.29	718.6	29.86	758.4	58.1	14.5	55	ssw.			1		cn		n.	0	0		M. Delorme, Dir.
Lescar, Normal School	29.17	740.9	29.72	755.0	60.3	15.7	61	ese.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.62	752.3	29.72	754.9	50.0	10.0	76	se.			6		10		se.	0.063	1.6	covered	L. T. Carre, Director.
Lyon, St. Genis-Laval	28.85	732.7	29.91	759.7	49.6	9.8	66	s.			2	5 ck				0	0	misty	M. André, Director.
Mans, Normal School	29.57	751.1	29.89	759.1	44.4	6.9		ssw.			4		2 n		ssw.	0.110	2.8	slightly cl'dy	M. Richard, Director.
Marseille, Observatory	29.73	755.1	30.00	762.0	56.1	13.4	80	ese.			2		6		wsw.	inap.	inap.		M. Stephan, Director.
Montlouis	24.62	625.3	29.46	748.3	39.2	4.0	83	e.	5.6	2.5			9	se.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.87	758.7	29.98	761.5	50.0	10.	82	se.			6		5		se.			light rain	M. Galzin, Director.
Nancy, Normal School	29.24	742.8	30.05	763.3	37.8	3.2	57	nne.			1		0			0	0		M. Hasse, Director.
Nantes, Observatory	29.63	752.5	29.79	756.6	55.9	13.3	72	sse.			0–1		9 n		ssw.	0.059	1.5	heavy rain	M. Larocque, Director.
Perpignan, Observatory	29.86	758.4	29.97	761.2	52.2	11.2	83	se.	13.0	5.8			10		se.	0.071	1.8		Dr. Fines, Director.
Pic-du-Midi, Summit	21.02	534.0			28.8	— 1.8		sw.			2		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.91	734.2	29.97	761.1	47.1	8.4	83	s.			1		n	s.	s.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	24.99	634.8			44.1	6.7	71	s.			1		2			0.008	0.2		M. Alluard.
Rochefort, Naval Obs'y	29.74	755.4	29.77	756.2	57.9	14.4	70	sse.			1		5		s.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.65	753.1	29.87	758.6	56.5	13.6	78	se.			1				se.	0	0		M. Brotier, Director.
Rodez, Normal School	27.69	703.3	29.87	758.7	43.5	6.4		sw.			4–8		10 n		nw.	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.89	759.3	29.94	760.5	44.2	6.8	88	e.			4		0			0	0	clear	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.77	756.1	29.93	760.3	46.2	7.9	69	ese.			1			ssw.	w.	0	0		M. Renou, Director.
Toulouse, Observatory	29.08	738.7	29.80	757.0	55.4	13.0	68	sse.			10		2	s.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.66	753.3	29.84	757.9	49.6	9.8	74	ene.			1		1		s.	0.94	24.	clear	M. de Tastes.
Versailles, Observatory	29.42	747.2	29.91	759.7	43.9	6.6	77	se.			4		5			0	0	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.59	751.6	29.74	755.4	55.8	13.2	79	e.	4.0	1.8			10 k			0	0	misty	M. Cartier, Director.
German.																			
Ansbach	28.73	729.7	30.25	768.3	35.4	1.9	47	e.			6		0			0	0		Prof. Jnedt.
Bamberg	29.35	745.6	30.21	767.2	37.9	3.3	55	e.			4		0			0	0		Prof. Dr. Hoh.
Berlin	30.29	769.3	30.44	773.2	32.0	0.0	60	se.			3		0			0	0		Meteorological Institute
Breslau	29.95	760.6	30.48	774.3	27.5	— 2.5	62	ese			2		9			0	0		Royal University Obs'y
Carlsruhe	29.67	753.5	30.14	765.6	39.6	4.2	49	e.			2		0			0	0		Albert Senz.
Cassel	29.54	750.2	30.25	768.3	37.8	3.2	52	ne.			4		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.82	757.3	30.20	767.0	39.9	4.4	47	e.			2		1			0	0		Physical Society.
Friedrichshafen	28.64	727.5	30.13	765.2	33.1	0.6	82	ne.			5		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.34	770.5	30.43	772.8	33.4	0.8	78	se.			3		0			0	0		E. Prefler.
Kiel	30.43	773.0	30.45	773.4	33.6	0.9	70	e.			2		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.95	760.6	30.39	771.9	31.1	— 0.5	79	e.			3		0			0	0		H. Leppig, Asst.
Magdeburg	30.21	767.2	30.41	772.3	34.5	1.4	74	e.			3		0			0	0		Weather Observatory.
Memel	30.56	776.2	30.61	777.4	29.3	— 1.5	92	s.			2		10					raining	Isserlmann.
Munich	28.28	718.4	30.15	765.9	32.2	0.1	66	e.			4		1			0	0		Central Station.
Neufahrwasser	30.50	774.7	30.52	775.1	28.4	— 2.0	92	se.			2		10			0	0		A. Lothes.
Neustadt, Palatinate																			Prof. Dicknether.
Stuttgart	29.16	740.7	30.09	764.3	38.3	3.5	58	e.			2		1	s.		0	0		Prof. Dr. Schoder.
Wustrow	30.45	773.5	30.48	774.1	32.4	0.2	78	e.			3		8 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.67	753.6	30.07	763.7	43.9	6.6		n.			1.5	0	9			0.055	1.4		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.86	758.5	29.91	759.8	73.8	23.2	86	wsw.	18.0	8.0			10			0.08	2.0	gloomy	
Deesa	29.43	747.6	29.91	759.7	81.9	27.7	30	w.	12.0	5.4			5	w.		0	0	d. clouds	
Bombay	29.86	758.4	29.90	759.3	77.9	25.5	71	nnw.	18.0	8.0			0			0	0	blue sky	
Poona, Yarrowda	28.03	711.9	29.86	758.5	85.6	29.8	15	sw.	6.0	2.7			0			0	0	blue sky	
Belgaum	27.34	694.4	29.83	757.8	84.9	29.4	15	nne.	4.0	1.8			3	w.	e.	0	0	d. clouds	
Lahore	29.21	742.0	29.99	761.7	61.4	16.3	56	e.	6.0	2.7			8			0	0	d. clouds	
Roorkee	29.04	737.6	29.97	761.2	64.8	18.2	35	calm	0.5	0.2			10	w.		0	0	overcast	
Agra	29.34	745.2	29.91	759.8	75.2	24.0	27	se.	2.0	0.9			8		w.	0	0	d. clouds	
Nagpur	28.85	732.8	29.89	759.2	83.2	28.4	22	calm	1.0	0.4			2	sw.		0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.56	725.4	29.93	760.2	75.8	24.3	33	calm	0	0			2	w.		0	0	d. clouds	
Lucknow	29.52	749.9	29.91	759.7	72.2	22.3	25	calm	0	0			0			0	0	blue sky	
Allahabad	29.63	752.5	29.95	760.6	73.0	22.8	43	calm	0	0			0			0	0	blue sky	
Patna	29.72	755.0	29.91	759.8	74.3	23.5	18	w.	1.6	0.7			0			0	0	blue sky	
Hazaribagh	27.89	708.5	29.94	760.5	69.6	20.9	23	nnw.	6.0	2.7			0			0	0	blue sky	
Cuttack	29.85	758.3	29.94	760.4	78.0	25.6	53	ssw.	2.0	0.9			4			0	0	d. clouds	
Calcutta, Alipore	29.92	760.0	29.94	760.6	65.5	18.6	81	sse.	5.0	2.2			4		nw.	0.17	4.3	d. clouds	
Dhubri	29.83	757.7	29.95	760.8	68.4	20.2	65	calm	1.7	0.8			1			0	0	d. clouds	
Chittagong	29.88	759.1	29.98	761.4	72.1	22.3	75	sw.	2.4	1.1			2			0	0	d. clouds	
Sibsagar	29.71	754.7	30.07	763.7	58.3	14.6	86	ne.	1.0	0.4			8	sw.	sw.	0.05	1.3	d. clouds	
Jeypore	28.41	721.6	29.86	758.5	75.9	24.4	36	wnw.	15.0	6.7			4		w.	0	0	d. clouds	
Zanzibar	29.91	759.8	29.94	760.3	84.6	28.9	74	wsw.	3.5	1.6			5	ene.	ssw.	0	0	d. clouds	
Bellary	28.37	720.6			89.0	31.7	26	nne.	4	1.8		4 ck	0			0	0	d. clouds	
Trichinopoly	29.62	752.3			89.8	32.1	44	ne.	0.2	0.1		3	3			0	0	d. clouds	
ITALIAN.																			
Udine	29.83	757.6	30.25	768.4	40.5	4.7	38	se.	12.5	5.6			0			0	0		Prof. Giovanni Clodig.
Milan	29.71	754.5	30.24	768.2	38.8	3.8	64	ne.	8.7	3.9			10	ne.		0	0		Prof. G. V. Schiapparelli
Padua	30.15	765.7	30.26	768.6	40.3	4.6	41	ene.	16.1	7.2			8	ne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.26	743.3	30.21	767.2	41.4	5.2	61	nw.	3.1	1.4			8	n.		0	0		Prof. F. F. Denza.
Genoa	29.91	759.8	30.11	764.8	44.2	6.8	46	n.	9.4	4.2			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.15	765.7	30.20	767.0	41.4	5.2	54	ne.	19.9	8.9			6	nne.		0.110	2.8		Prof. Luigi Guidi.
Florence	29.88	759.0	30.15	765.7	45.1	7.3	57	ne.			4		4	n		0	0		Prof. Costantino Pit'ei.
Leghorn	29.95	760.6	30.02	762.4	40.6	8.1	51	ene.	13.6	6.1			2			0	0		Prof. P. Monte.
Rome	29.82	757.5	30.00	762.0	52.9	11.6	42	n.	6.3	2.8			7			0	0		Prof. P. Tacchini.
Lecce	29.75	755.7	30.01	762.3	49.3	9.6	57	ne.	6.3	2.8			9	n.		0.283	7.2		Prof. C. de Giorgi.
Cosenza	29.11	739.3	30.02	762.6	47.5	8.6	73	wnw.	3.1	1.4			4	w.		0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.67	753.6	29.93	760.1	61.5	16.4	79	ne.	8.1	3.6			7			0	0		Prof. G. Cacciatore
Syracuse	29.93	760.1	29.97	761.2	57.6	14.2	66	ene.	14.3	6.4			10	ese.		0	0		Sig. V. Giulio.
Sub-series.																			
Naples, Astron'l Obs'y	29.49	749.0	30.02	762.6	49.5	9.7	53	ne.	12.5	5.6			5	ne.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.78	756.4	29.81	757.3	26.7	— 2.9	100	nw.			7		9 n;s		nw.	0.039	1.0	snowing	H. Hattori.
Awomori	29.70	754.4	29.74	755.4	23.8	— 4.6	78	sw.	14.5	6.5			10 n			0.420	10.7	snowing	K. Ogawa.
Hakodate	29.69	754.0	29.70	754.3	23.2	— 4.9	76	nw.	12.0	5.4		0	3 s			inap.	inap.	clear	Y. Souma.
Hamamatsu	29.91	759.7	30.01	762.2	30.5	2.5	63	nw.			6	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.18	766.7	30.20	767.1	36.0	2.2	68	w.	1.5	0.6		2 ck	0	w.		0	0	clear	Y. Okamoto.
Kagoshima	30.27	768.8	30.28	769.1	37.2	2.9	74	n.			2	0	1 s			0	0	clear	
Kanazawa	29.93	760.1	30.04	762.9	35.9	2.2	67	w.	22.5	10.0		0	6s;ks			0.269	6.8	cloudy	S. Endo.
Kioto	29.92	760.0	30.09	764.4	31.1	1.2	72	ssw.	2.8	1.2		0	4 s			0.006	0.1	fair	M. Tojima.
Kochi	30.12	765.0	30.14	765.5	36.0	2.2	80	w.	2.5	1.1		0	0			0	0	clear	K. Kusunose.
Miasaka	30.21	767.2	30.23	767.9	40.1	4.5	62	wnw.			4	0	0			0	0	clear	K. Masusaki.
Miyako	29.67	753.5	29.78	756.3	25.0	— 3.9	55	sw.	1.5	0.6		0	1 s			0.070	1.8	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.07	763.8	30.29	769.3	36.7	3.7	71	calm	0	0		0	2 s			0	0	clear	
Nemuro	29.51	749.5	29.56	750.8	27.0	— 2.8	79	calm	0	0		0	6 s			0.48	12.2	fair	A Shibuya.
Niigata	29.84	757.9	29.88	758.9	33.9	1.1	78	wnw.	18.4	8.2			10 s			0.105	2.7	overcast	Satoo & Tomikawa.
Nobiru	29.79	756.7	29.81	757.1	29.6	— 1.3	81	nnw.	14.0	6.3		0	8 ks			0.020	0.5	fair	Yoshino & Midzushina.
Numadzu	29.84	757.9	29.87	758.7	42.5	5.8	59	sw.			6	0	0			0	0	clear	T. Ohgi.
Osaka	30.10	764.6	30.12	765.0	36.0	2.2	59	w.	12.5	5.5		0	0			0	0	clear	H. Omura.
Sakai	30.13	765.3	30.14	765.5	38.0	3.3	57	wsw.			4		10 ks		nw.	0	0	cloudy	Yamawchi & Sakamoto.
Sapporo	29.58	751.3	29.65	753.1	21.2	— 6.0	67	calm	0	0		0	4 s			0.035	0.9	clear	S. Kimura.
Shimonoseki	30.07	763.9	30.22	767.6	41.1	5.1	58	w.			4	0	3 s		w.	0	0	fair	S. Sakano.
Wakayama	30.08	764.1	30.14	765.5	37.8	3.2	64	calm	0	0		0	5 ck		w.	0	0	fair	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.75	755.6	29.94	760.5	80.5	26.9	66	ese.	15.0	6.7		1 c	6 k;n			0	0	fair	The Staff.
MEXICAN.																			
Leon	24.37	619.0	30.24	768.1	44.2	6.8	71	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina
Mazatlan	29.84	758.0	30.10	764.6	65.5	18.6	89	n.	0.9	0.4		0	0			0	0	light fog	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.07	763.8	30.07	763.8	39.6	4.2		ese.			5					0	0		
Groningen	30.28	769.0	30.33	770.4	33.6	0.9		se.								0	0		
Helder	30.20	767.0	30.20	767.0	33.4	0.8		e.			4					0	0		
Hellevoetsluis	30.12	765.1	30.12	765.1	42.1	5.6	63	e.			4					0	0		
Utrecht	30.13	765.3	30.19	766.7	38.7	3.7	50	ese.			4		0			0	0	clear	H. van der Brink.
Sub-series.																			
Batavia, Java	29.90	759.5			77.7	25.4	89	nnw.	0	0			6			0.236	6.0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.35	770.8	30.41	772.4	33.8	1.0	65	calm	0	0			0			0	0		
Brono	30.43	772.8	30.47	773.8	30.7	2.6	89	calm			0		0			0	0		
Christiania	30.40	772.1	30.56	776.1	32.9	0.5	76	calm	0	0			0			0	0		
Gjæsvær	30.24	768.1	30.26	768.7	36.7	2.6		wnw			7		10			0.039	1.0	raining	
Lodingen	30.42	772.7	30.47	773.9	37.8	3.2	81	calm			0		6			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.78	756.3	29.86	758.5	59.4	15.2	54	sw.	9.8	4.4			2	nw.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.32	744.8	29.66	753.3	52.9	11.6	68	n.	19.2	8.6			6	s.		0.874	22.2		The Staff.
Ponta Delgada, Azores	29.57	751.0	29.04	752.8	59.0	15.0	78	wnw.	25.5	11.4			3			0.303	7.7		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	29.99	761.7	30.02	762.6	68.9	20.5	72	nne.			2		5			0	0		
San Salvador, Congo	28.03	711.9	29.84	757.8	84.2	29.0	58	nw.			1		6			0	0		
Serra da Estrella	24.89	632.3	29.69	754.0	36.0	2.2	100	sse.	13.6	6.1			10			1.071	27.2	foggy	
RUSSIAN.																			
Akmolinski	28.82	732.0	30.03	762.7	— 3.5	—19.7	94	sw.	20	9		0	6 k			0	0		Major K. Lasarew.
Archangel	30.02	762.5	30.04	763.0	25.2	— 3.8	80	nnw.	13	6			10					snow-drift	Capt. Sselliwerstow
Ashurada	30.11	764.7	30.01	762.3	49.1	9.5	78	n.	7	3			10 k			0	0		
Astrakhan	30.23	767.8	30.15	765.8	19.0	— 7.2	75	nw.	2	1			10						Capt. Wisganow.
Baku	30.14	765.5	30.09	764.3	39.4	4.1	68	nne.	4	2			10 kn			0.307	7.8		
Barnaul	29.65	753.2	30.22	767.6	— 6.5	—21.4	79	calm	0	0			4			0	0	light clouds	Meteorological Office.
Bielosersk	29.72	754.9	30.22	767.5	26.6	— 3.0	100	wnw.	11	5			10 s			0	0		
Dorpat	30.29	769.3	30.55	776.0	26.1	— 3.3	100	wnw.	7	3			10 n			blank	blank	light fog	Observatory.
Ekaterinburg	28.55	725.1	29.58	751.4	7.5	—13.6	88	wsw.	16	7			10			0.047	1.2	snowing	Meteorological Obs'y.
Elisawetgrad	29.96	760.9	30.45	773.4	19.2	— 7.1	72	nnw.	7	3		2 ck	0			inap.	inap.	light clouds	
Kasan	29.55	750.5	29.83	757.6	29.5	— 1.4	80	wnw.	7	3			10			0	0		Observatory.
Kem	30.19	766.9	30.24	768.2	31.5	1.4	78	nw.	4	2			10			0.055	1.4	h'vy clouds	
Kertch	30.22	767.5	30.44	768.1	25.2	— 3.8		ne.	7	3		0	2 k			0	0		Gagorio & Sastyrea.
Kieff	29.76	756.0	30.45	773.4	23.5	— 4.7	65	n.	7	3		0	7ks;n			0.039	1.0		Observatory.
Koslov	29.60	751.7	30.13	765.3	24.3	— 4.3	86	n.	7	3			10 s			0.008	0.2		
Lgov	29.78	756.3	30.41	772.5	16.5	— 8.6	90	wnw.	11	5			10			inap.	inap.	light snow	R. I. Ssaweljew, Engin'r.
Libau	30.50	776.3	30.59	776.9	31.8	— 0.1	77	se.	2	1			10			0	0		[illegible]
Lugan	30.06	763.4	30.28	769.1	14.7	— 9.6	55	n.	13	6			0			inap.	inap.		Meteorological Obs'y
Moscow	29.77	756.1	30.28	769.2	24.4	— 4.2	88	n.	9	4			10 n			0	0		Meteorological Obs'y
Nertschinsk	27.78	705.7	30.35	770.8	— 2.6	—19.2	69	calm	0	0			0			0	0		
Nikolaiev	30.30	769.7	30.37	771.5	26.8	— 2.9	66	nne.	22	10		0	0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor	29.85	758.2	29.94	760.4	18.7	— 7.4	90	calm	0	0			10 n						Iwanow.
Pekin, China	30.11	764.8	30.25	768.4	30.0	— 1.1	41	calm	0	0		0	0						Siang.
Petro-Alexandrovsk	29.81	757.2	30.19	766.7	30.6	— 0.8	70	calm	0	0			9						Walter.
Petrozavodsk	30.04	763.0	30.25	768.3	27.3	— 2.6	87	wnw.	16	7			9 ks			0.004	0.1		Dr. Bergmann.
Pinsk	30.02	762.6	30.56	776.2	25.5	— 3.6	74	nne.	4	2			10 s			0	0		
Poti	30.02	762.6	30.06	763.4	43.3	6.3	93	s.	4	2			10 n					raining	
St. Petersburg	30.43	772.9	30.45	773.5	24.1	— 4.4	95	wnw.	16	7			10 n			inap	inap.		Central Physical Obs'y.
Samarkand	27.57	700.2	30.11	764.8	39.7	4.3	92	calm	0	0			10 n					raining	Dresch.
Semipalatinsk	29.58	751.2	30.32	770.2	— 6.3	—21.3	85	calm	0	0			2			0.008	0.2		Major Lasarew
Sevastopol	29.97	761.1	30.19	766.8	32.0	0.0	61	ne.	27	12		5 cs	0			0	0		
Staroi Bykhov	29.88	758.9	30.48	774.1	21.6	— 5.8	90	n.	13	6			10			0	0		Carl Hagen.
Tashkend, Laboratory	28.41	721.5	30.14	765.6	38.5	3.6	92	n.	7	3			10 n						Terch, A. M
Tiflis	28.62	727.0	30.11	764.8	32.9	0.5	75	e.	2	1			10			0.055	1.4		Physical Observatory.
Vernoe	27.49	698.3	30.15	765.7	23.7	— 4.6	79	calm	0	0			10 n						Sarlono.
Viatka	29.18	741.1	29.84	757.9	22.6	— 5.2	64	n	9	4			8			0.020	0.5		
Vladivostock	29.94	760.5	30.01	762.2	16.7	— 8.5	66	nne.	22	10			0			0.047	1.2		
Warsaw	30.11	764.7	30.56	776.2	29.5	— 1.4	66	sse.	4	2			10					h'vy clouds.	Astronomical Obs'y.
Yeniseisk	29.90	759.5	30.23	767.9	—14.1	—25.6	76	calm	0	0			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.65	753.1	30.18	766.6	23.8	— 4.6	90	nw	22.6	10.1			10 kn		nw.	0	0	cloudy	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.78	756.4	29.89	759.2	52.7	11.5	95	ne.					10					rainy	B. J. Elin.
Bilbao, Met. Obs'y	29.53	752.7	29.69	754.2	63.7	17.6	57	s.	4.9	2.2		2	3	s.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.76	679.6	29.71	754.5	51.8	11.0	68	se.	11.2	5.0		0	5			0.035	0.9	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.47	697.8	29.66	753.5	59.0	15.0	59	e.	12.5	5.6		0	7			0.154	3.9	cloudy	The Staff.
Murcia, Met. Obs'y	29.54	750.3	29.69	754.0	60.8	16.0	81	ene.	2.5	1.1		4	6	w.		0	0	foggy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28 74	730.0	29.64	752.9	47.8	8.8	93	sw.	1.3	0.6			10			0.307	7.8	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.04	763.0	30.11	764.6	69.1	20.6	92	se.	1.1	0.5		0	0			0.14	3.7	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.03	762.8	30.09	764.3	76.0	24.4	78	ese.	11.0	4.9		0	s			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	29.43	747.4	29.53	749.9	56.5	13.6	78	nne.	4.7	2.1			10		ne.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.04	763.1	30.13	765.4	75.9	24.4	76	e.	8.5	3.8		3 s	3 kn	e.	e.	0.16:	4.1	cloudy	Enrique Gaden, Chf Eng
SWEDISH.																			
Haparanda	30.44	773.2	30.48	774.2	13.6	—10.2	100	calm			0		0			0	0		
Umea	30.46	773.6	30.51	774.9	25.5	— 3.6	91	calm			0		0			0	0		
Hernosand	30.47	774 0	30.52	775.3	27.0	— 2.8	87	calm			0		0			0	0		
Stockholm	30.40	772 1	30.58	770.0	31.6	— 0.2	89	calm			0		10			0	0		
Wisby	30.45	773.5	30.51	775.0	34.9	1.6	75	e.			2		10			0	0		
Sub-series.																			
Upsala	30.50	774.6	30.58	776.8	28.6	— 1.9	96	ssw.	4.7	2.1			10			0	0		H.H.Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.17	766.2	38.7	3.7	57	n.	12	5.5			8		n.	0.323	8.2	snowing	The Observatory.
Valona			30.01	762 3	54.1	12.3		se.			1		8			0.20	5	¾covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.96	761.0	52.5	11.4	73	se.			1		10 n		sw.	0.13	3.3		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.29	769.4	30.38	771.6	37.1	2.8	70	s.	6	2.7			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.38	746.2	30.09	764.3	29.2	— 1.6	88	se.	2	0.9			10 s			0.02	0.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.03	635.8	30.13	765.3	33.1	0.6	94	ne.	2	0.9		0	8 s		nw.	0.13	3.3	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.22	691.4	30.20	768.6	20.0	— 6.7	72	e.	7	3.1		0	0			0.17	4.3	clear	F. Newman.
Atlanta, Georgia	28.83	732.3	30.05	763.3	38.8	3.8	91	e.	8	3.6			10 n			2.36	59.9	light rain	S. W. Beall.
Atlantic City, New Jersey	30.20	768.6	30.20	768.6	40.0	4.4	82	ne.	8	3.6			10 s			0	0	cloudy	B.A.Blundon.
Augusta, Georgia	29.94	760.5	30.14	765.5	47	8.3	93	calm	0	0			10 s			0.20	5.1	threatening	W.J.Evans.
Baltimore, Maryland	30.26	768.6	30.31	769.9	40	4.4	73	ne.	5	2.2			10 n		ne.	0.07	1.8	light rain	Geo. W. Fisher.
Barnegat City, New Jersey	30.31	769.9	30.33	770 4	41.0	5.0	96	e.	8	3.6			10 ks		se.	0	0	cloudy	F.L.Johnson.
Bennett, Fort, Dakota	28.54	724.9	30.27	768.8	— 4.0	—20.0	91	n.	8	3.6			10 s		nw.	0.05	1.3	threatening	A. Pritchard.
Benton, Fort, Montana	26.86	682.2	29.86	758.4	—18.1	—27.8	100	e.	1	0.4			10 n		sw.			light snow	Thomas Morgan.
Bismarck, Dakota	28.30	718.8	30.28	769.1	— 6.0	—21.1	71	ne.	12	5.4		0	8		n.	0.03	0.8	light snow	B. O. Lenoir.
Block Island, Rhode Island	30.39	771.9	30.42	772.7	38.8	3.8	84	se.	7	3.1			10 s			0	0	cloudy	J. T. Eiker.
Boise City, Idaho	26.59	675.4	29.55	750.6	44.2	6.8	63	se.	18	8.0			10 s			0.12	3.0	cloudy	James Kenealy.
Boston, Massachusetts	30.30	771 1	30.52	775.2	31.0	— 0.0	94	s.	4	1.8			10 s		w.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.97	761.2	57.0	13.9	100	ne.	4	1.8		0	fg.			0	0	clear	John McGlone.
Buffalo, New York	29.42	747.3	30.21	767.3	36	2.2	88	se.	2	0.9			10 s			0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.69	713.5	30.30	769.6	—15.6	—26.4	76	ne.	6	2.7		0	2 s			0.02	0.5	clear	A. Schneider.
Cairo, Illinois	29.49	749.0	29.91	759.7	45.3	7.4	94	s.	4	1.8			10 s		s.	0.31	7.9	threatening	W. H. Ray.
Canby, Fort, Washington Ter	29.22	742.2	29.42	747.3	32.8	0.4	77	s.	4	1.8		0	hz.			0	0	clear	J.H.Young.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	47.0	8.3	100	se.	6	2.7			10 n			0.07	1.8	light rain	A. K. Alderson.
Cape May, New Jersey	30.22	767.6	30.25	768.3	45.0	7.2	93	ne.	12	5.4			10 n			0.03	0.8	light rain	W.E.Smith.
Cape Mendocino, California	28.65	727.7	29.35	745.5	42.2	5.7	93	nw.			6		fg.			0.43	10.9	dense fog	A. P. Leavitt.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	67.0	19.4	95	s.	11	4.9			10 s		s.	0.15	3.8	cloudy	G. W. Davis.
Charleston, S. Carolina	29.99	761.7	30.05	763.3	63.5	17.5	100	sw.	7	3.1			fg.			2.73	69.3	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.20	741.7	30.09	764.3	38.0	3.3	96	ne.	9	4.0			10 s		ne.	1.24	31.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.19	741.4	30.05	763.3	42.5	5.8	93	ne.	2	0.9			10s;fg		se.	0.77	19.6	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.75	603.2	30.02	762.5	30.4	— 0.9	44	w.	8	3.6		0	4 s		nw.	0	0	fair	E. McGovern.
Chicago, Illinois	29.20	741.7	29.95	760.7	37.2	2.9	78	s.	7	3.1			10 s		e.	0.07	1.8	threatening	Wm. Norrington.
Chincoteague, Virginia	30.23	767.8	30.25	768.3	45.0	7.2	100	se.	10	4.5			10s;fg		sw.	0.02	0.5	cloudy	C. F. Dickens
Cincinnati, Ohio	29.29	744.0	29.98	761.5	44.5	6.9	91	se.	4	1.8			10 n		se.	0.03	0.8	light rain	L. Dunne.
Cleveland, Ohio	29.31	744.5	30.10	764.5	38.0	3.3	62	se.	10	4.5			10 s		se.	0	0	cloudy	W. Line.
Columbus, Ohio	29.15	740.4	30.05	763.3	40	4.4	82	ne.	7	3.1			10 s			0	0	cloudy	F.T. Williams
Concho, Fort, Texas	28.00	712.7	30.08	764.0	44.3	6.8	68	w.	21	9.4		0	0			inap.	inap.	clear	C. E. King.
Custer, Fort, Montana	26.78	680.2	30.14	765.5	—14.5	—25.8	78	ne.	4	1.8		0	0			0	0	clear	W.J.Daily.
Davenport, Iowa	29.17	740.9	29.87	758.7	38.5	3.6	84	e.	5	2.2			10 n			0.01	0.3	light rain	R. R. Martin.
Davis, Fort, Texas	25.17	639.3	30.13	765.3	39.2	4.0	67	s.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	27.50	698.5	29.32	744.7	11.0	—11.7	100	calm	0	0			10 n			0.50	12.7	heavy snow	H.S.Blandford.
Deadwood, Dakota	25.15	638.8	30.07	763.8	— 7.2	—21.8	77	sw.	1	0.4		0	0			0	0	clear	G.Kingsbury.
Delaware Breakwater, Del	30.28	769.1	30.30	769.6	39.2	4.0	100	e.	10	4.5			10 n			inap.	inap.	light rain	G.A.Martin.
Denver, Colorado	24.48	621 8	30.00	762.0	32.6	0.3	61	s.	3	1.3		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.92	734.6	29.89	759.2	37	2.8	82	s.	1	0.4			10 n		s.	0.46	11.7	light snow	F. W. Conrad.
Detroit, Michigan	29.36	745 7	30.11	764.8	41.9	5.5	74	se.	7	3.1			10 s		s.	0	0	cloudy	N.B.Conger.
Dodge City, Kansas	27.26	692.4	30.00	762.0	28	— 2.2	88	nw.	10	4.5			10 s			0.01	0.3	cloudy	J.E.Lanouette.
Dubuque, Iowa	29.14	740.1	29.90	759.4	35.5	1.9	85	se.	1	0.4			10 s			0.34	8.6	cloudy	J. Harvey Smith
Duluth, Minnesota	29.25	742.9	30.06	763.5	20.5	— 6.4	84	ne.	3	1.3			10 s			0.12	3.0	cloudy	E.R.Brace.
Eastport, Maine	30.33	770.4	30.40	772.1	31.5	— 0.3	72	sw.	6	2.7		3 c	5 s	s.	sw.	0	0	cloudy	D. C. Murray.
Elliott, Fort, Texas	27.06	687.3	29.96	761.0	31.0	— 0.6	71	nw.	13	5.8		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.33	668.8	30.21	767.3	39.1	3.9	81	w.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.39	746.5	30.16	766.1	38.0	3.3	72	s.	16	7.2			10 s		s.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.34	745.2	30.06	763.5	20.6	— 6.3	80	n.	5	2.2			10 ks			0.05	1.3	cloudy	L.M.Pindell.
Fort Smith, Arkansas	29.23	742.4	29.73	755.1	43.0	6.1	96	calm	0	0			fg.			0.03	0.8	dense fog	J. B. Campbell.
Galveston, Texas	29.90	761.0	30.00	762.0	60.3	15.7	90	w.	6	2.7			10s;ks		sw.	0.04	1.0	cloudy	E. O'C. Machinerney
Grand Haven, Michigan	29.29	744.0	30.00	762 0	36.0	2.2	89	ne.	1	0.4			10 s			0.03	0.8	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.26	641.6	30.12	765.0	33.6	0.9	70	e.	6	2.7		4 cs	0	sw.		0.31	7.9	fair	Chas. A. Read.
Hatteras North Carolina	30.18	766.6	30.19	766.8	65.4	18.6	73	se.	16	7.2			10 k		se.	0	0	cloudy	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.53	648.5	29.88	758.9	— 9	—22.8	82	calm	0	0			10 s			0.19	4.8	cloudy	S. W. Morrison.
Huron, Dakota	28.66	728.0	30.18	766.6	— 0.6	—18.1	100	n.	13	5.8			10 n			0.01	0.3	light snow	S. W. Glenn.
Indianapolis, Indiana	29.09	738.9	29.94	760.5	41.0	5.0	73	se.	4	1.8			10 s		se.	0.05	1.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.97	761.2	30.00	762.0	57.3	14.1	95	nw.	6	2.7		0	8 s		w.	0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.04	763 0	30.09	764.3	66.3	19.1	89	s.	10	4.5			10 s			0.30	7.6	cloudy	J. W. Smith.
Keokuk, Iowa	29.17	740.9	29.87	758.7	36.0	2.2	89	calm	0	0			10 s			0.12	3.0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.11	764.8	30.13	765.3	75	23.9	85	se.	8	3.6		0	4 k		se.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina					47.0	8.3	93	se.	2	0.9			10 s			0.04	1.0	cloudy	Wesley Blake.
Knoxville, Tennessee	28.98	736.1	30.06	763.5	43.3	6.3	99	e.	12	5.4			10 s		e.	0.98	24.9	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.13	739.9	29.97	761.2	31	— 0.6	85	n.	4	1.8			10 n			0.12	3.0	light snow	S. C. Emery.
Leavenworth, Kansas	28.90	734.0	29.85	758.2	35.4	1.9	84	n.	5	2.2			10n;fg			0.26	6.6	light rain	T. S. Outram.
Lewiston, Idaho	28.62	726.9	29.49	749.0	19.6	— 6.9	74	calm	0	0			10 n			0.65	16.5	light snow	C. E. Butler.
Little Rock, Arkansas	29.48	748.8	29.81	757.2	47.0	8.3	100	se.	1	0.4			fg.			0 43	10.9	dense fog	W.U.Simons.
Los Angeles, California	29.58	751.3	29 98	761.5	54.8	12.7	100	s.	8	3.6			10 n			1.60	40.6	light rain	T. S. Collins
Louisville, Kentucky	29.36	745.7	29.95	760.7	48.5	9.2	75	e.	6	2.7			10 s			0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.48	748.8	30.20	767.1	37.0	2.8	87	ne.	3	1.3			10 n		ne.	0.47	11.9	light rain	Jno. Healy.
Mackinaw City, Michigan	29.38	746.2	30.08	764.0	30.0	— 1.1	88	se.	3	1.3			10 s			0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.15	765.8	30.16	766.1	57.0	13.9	100	s.	16	7.2			10 s		se.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.40	645.1	30.15	765.8	— 9.8	—23.2	61	n.	4	1.8		10 k	0			0.01	0.3	cloudy	F. Burke.
Marquette, Michigan	29.29	744.0	30.07	763.8	27.0	— 2.8	88	w	2	0.9			10 s			inap.	inap.	cloudy	J. Gilligan.
Memphis, Tennessee	29.52	749.8	29.87	758.7	47.5	8.6	100	se.	8	3.6			10 s			0.13	3.3	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.15	740.4	29.95	760.7	35.7	2.1	96	se.	5	2.2			10n;fg			0.13	3.3	light rain	S.W.Rhode.
Mobile, Alabama	29.92	760 0	29.96	761.0	52.6	11.4	96	n.	3	1.3			10 s		n	2.05	52.1	cloudy	H. U. Jones.
Montgomery, Alabama	29.76	755.9	30.00	762.0	44	6.7	93	e.	4	1.8			10 s			2.73	69.3	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.06	738.1	30.16	766.1	— 6	—21.1	91	n.	13	5 8			10 s		n.	0.05	1.3	cloudy	H. Bessant.
Mt, Washington, N. H	23.80	604.5	30.42	772.7	18.0	— 7.8	80	nw.	58	25.9		50s;hz	0			0	0	fair	Edwd. A. Beals.
Nashville, Tennessee	29.32	744.7	29.93	760.2	45.0	7.2	93	e.	4	1.8			10 s		sw.	0.11	2.8	cloudy	L. N. Jesunofsky
New Haven, Connecticut	30.27	708.8	30.39	771.9	33.9	1.1	84	se.	4	1.8			10 s			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.36	771.1	30.41	772.4	37.0	2.8	89	ne.	5	2.2			10 s		ne.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.91	759.7	29.97	761.2	59.3	13.5	94	se.	2	0.9			fg.			1.57	39.9	dense fog	M. Herman.
New York, New York	30.19	766.8	30.38	771.6	35.0	1.7	83	ne.	7	3.1			10s;fg			0	0	cloudy	H. J. Penrod.
Norfolk, Virginia	30.17	766.3	30.20	767.1	49.5	9.7	93	e.	8	3.6			10 n			0.01	0.3	light rain	Wm. Davis.
North Platte, Nebraska	26.98	685.3	30.08	764.0	4.6	—15.2	80	nw.	6	2.7		3 c	0	nw.		0	0	clear	J.J.Mc Lean.
Olympia, Washington Ter	29.41	747.0	29.45	748.0	31.0	— 0.6	88	calm	0	0			10 s			0	0	cloudy	J. Dascomb
Omaha, Nebraska	28.72	729.5	29.99	761.7	17.0	— 8.3	89	n.	12	5.4			10 n			0.07	1.8	light snow	A. Pollak
Oswego, New York	29.90	759 4	30 25	768.3	38.0	3.3	62	s.	7	3.1			10 s		w.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.36	745.7	29.94	760.5	52.5	11.4	80	s.	12	5.4		0	3 s			inap.	inap	clear	P. T. Jenkins.
Pensacola, Florida	29.93	760.2	29.96	761.0	63.0	17.2	98	sw.	1	0.4			10 s		s.	1.08	27.4	cloudy	M. McGauran.
Philadelphia, Pa	30.23	767.8	30.34	770.6	37.5	3.1	94	ne.	7	3.1			fg;10s			inap.	inap.	threatening.	T. F. Townsend.
Pike's Peak, Colorado	17.56	446.0	30.28	769.1	1.0	—17.2	83	nw.	38	17.0		0	0			0.04	1.0	clear	H. Hall.
Pittsburg, Pennsylvania	29.40	746.7	30.26	768.6	39.5	4.2	86	ne.	5	2.2			10 n		ne.	0.03	0.8	light rain	O. D. Stewart.
Poplar River, Montana					—26.5	—32.5	89	e.			4		10 s			0.09	2.3	cloudy	G.A.Carden.
Port Huron, Michigan	29.40	746.7	30.13	765.3	35.0	1.7	82	calm	0	0			10 s		sw.	0	0	cloudy	M. H. Perry
Portland, Maine	30.35	770.9	30.40	772.1	32.0	0.3	83	sw.	5	2.2			10 s		s.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.26	743.2	29.33	745.0	27.8	— 2.3	78	ne.	1	0.4			10 n			0.07	1.8	light snow	M. L. Hearne.
Prescott, Arizona	24.73	628.1	30.09	764.3	37.0	2.8	89	sw.	5	2.2			10 s			0.08	2.0	light rain	N. D. Lane.
Provincetown, Mass	30.41	772.4	30.44	773.2	35.0	1.7	89	s.	6	2.7		10 cs	0	sw.		0	0	cloudy	C. N. Kitchel.
Red Bluff, California	29.12	739 6	29.49	749.0	50	10.0	86	s.	28	12.5			10 ks		s.	1.06	26.9	cloudy	J. R. Williams.
Rio Grande City, Texas	29.86	758.4	30.11	764.8	52.0	11.1	93	n.	4	1.8		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.52	749.8	30.23	767.8	35	1.7	79	s.	12	5.4		10 k	hz.	sw.		0	0	cloudy	E. W. McGann.
Roseburg, Oregon	28.71	729.2	29.28	743.7	36.1	2.3	91	sw.	1	0.4			fg.			0.69	17.5	dense fog	J. J. Nanry.
Sacramento, California	29.53	750.0	29.60	751.8	49.5	9.7	89	s.	16	7.2		0	6 s		sw.	1.36	34.5	fair	J. A. Barwick
St. Louis, Missouri	29.21	741.9	29.87	758.7	43.8	6.6	91	se.	11	4.9			10s;fg			0.09	2.3	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.42	772 7	30.45	773.4	6.5	—14.2	87	calm	0	0		0	0			0	0	clear	Fred. H. Clarke
St. Paul, Minnesota	29.03	737.3	29.96	761.0	31.9	— 0.1	70	calm	0	0		10 cs	0	ne.		inap.	inap.	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.40	746.7	30.37	771.4	—17	—27.2	81	n.	14	6.3			10 s			0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.36	644.1	29.92	760.0	38.6	3.7	61	se.	14	6.3			10 s			inap.	inap.	cloudy	J. Craig.
San Diego, California	29.94	760.5	30.02	762.5	54.5	12.5	86	se.	9	4.0			10 s		sw.	0.86	21.8	cloudy	F. R. Day.
Sandusky, Ohio	29.35	745.5	30.07	763.8	40	4.4	57	se.	8	3.6		10 cs	0	se.		0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.33	770.4	30.36	771.1	36.8	2.7	89	ne.	8	3.6			10 s		e.	0	0	cloudy	V.P.Chappel.
Sanford, Florida	30.05	763.3	30.10	764.5	68.0	20.0	93	se.	8	3.6		0	8 k		se.	2.46	62.5	cloudy	J. B. Marbury
San Francisco, California	29.54	750.3	29.61	752.1	54.0	12.2	84	s.	12	5.4			10 s		sw.	0.90	22.9	threatening.	N. Gorom.
Savannah, Georgia	29.98	761.5	30.06	763.5	55	12.8	97	n.	2	0.9			fg.			1.18	30.0	dense fog	R. M. Geddings.
Shaw, Fort, Montana	25 94	658.9	29.79	756.7	—15	—26.1	77	ne.	1	0.4			10 s			0.09	2.3	cloudy	A.L.Mathews.
Shreveport, Louisiana	29.63	752.6	29.81	757.2	56.5	13.6	98	s.	9	4.0			10 s		s.	0.21	5.3	cloudy	E.N.Meekins.
Sitka, Alaska	29.74	755.4	29.81	757 2	15	— 9.4	57	e.	11	4.9		0	6 ks		e.	0	0	fair	F. W. Fickett.
Smithville North Carolina	30.04	763.0	30.08	764.0	59.8	15.4	97	se.	23	10.3			10 n		se.	0.42	10.7	light rain	O. Parker.
Spokane Falls, Wash. Ter.	27.36	694.9	29.49	749.0	17.8	— 7.9	88	e.	5	2.2			10 n			0.10	2.5	light snow	D.Moore.
Springfield, Illinois	29.16	740.7	29.89	759.2	37.2	2.9	96	se.	4	1.8			fg.			0.46	11.7	dense fog	T. B. Jennings.
Stockton, Fort, Texas	27.01	686.0	30.14	765.5	46.0	7.8	50	sw.	8	3.6		0	0			0	0	clear	J.W.Byram.
Tatoosh Id., Wash. Ter	29.38	746.2			28.7	— 1.8	76	sw.	14	6.3			10 s		sw.	0.02	0.5	cloudy	R. Connor.
Thomas, Camp, Arizona	27.36	694.9	30.19	766.8	34.2	1.2	95	calm			0	1 cs	1 s			0.14	3.6	clear	R. C. Lord.
Toledo, Ohio	29.30	744.2	30.04	763.0	36	2.2	77	s.	2	0.9		8 cs	2 s	sw.	sw.	0	0	cloudy	A. Buell.
Unalashka, Alaska	29.54	750.3	29.56	750.8	37	2.8	89	e	36	16.1			10 n		e.	1.00	25.4	sleeting	Samuel Applegate
Vicksburg, Mississippi	29.67	753.6	29.94	760.5	51.5	10.8	96	se.	4	1.8			fg.			0.38	9.7	dense fog	C.Dill.
Washington, D. C.	30.19	766.8	30.31	769.9	31.8	1.6	94	ne.	5	2.2			10 n		ne.	0.25	6.3	light rain	T. B. Harrison.
West Las Animas, Colorado	25.82	655.8	29.94	760.5	15.2	— 9.3	97	sw.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N Carolina	30.04	763.0	30.10	764.5	61.0	16.1	93	se.	12	5.4			10 n			0.21	5.3	heavy rain	L.H.Albrecht.
Yanktoi, Dakota	28.72	729.5	30.14	765.5	5.3	—14.8	87	nw.	11	4.9			10 s			inap.	inap.	cloudy	E. H. Thompson.
Yuma, Arizona	29.88	758.9	30.03	762.7	49.8	9.9	88	se.	1	0.4		1 c	0			inap.	inap.	clear	W.S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.70	754.4	29.72	754.9	30.2	— 1.0	92	ne.	23	10.3			10 n			inap.	inap.	snowing	George Cheruick.
Bluefields, Nicaragua, C. A.					74	23.3		nw.			2	0	7 n		ne.	0.28	7.1	cloudy	W. H. Jackson.
Bogota, U. S. C.	21.98	558.4			52.7	11.5	90	calm	0	0		0	0			0	0		Joaquin Gomez.
Chimo, Fort, Ungava	29.99	761.7	30.15	765.8	—24	—31.1	100	sw.	18	8.0		10 cs	0	s.		0	0	cloudy	L.M.Turner.
Kingston, Jamaica, W. I.			30.13	765.3	72.0	22.2	80	n.	1	0.4			10 s		e.	0.04	1.0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	78	25.6	86	e.			2	5 k	8 ks	e.	e.	0.150	3.8		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.38	746.2	29.94	760.5	74	23.3	89	s.			1	0	8 ks		s.	0	0	cloudy	Francisco J. Olsnert s.
Rivas, Nicaragua, C. A.					75	23.9	92	ne.			1	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	30.02	762.5	30.09	764.3	—31.0	—35.0		w.	10	4.5		0	1 s		w.	0	0		Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.97	761.3	29.98	761.5	78.1	25.6	87	n.	8.9	4.0		0	8 k		n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.94	760.4	30 00	762.1	72.0	22.2	87	nw.			4	0	1 k		n.	0	0	clear	Antonio Fabre.

International Chart I. February 17, 1884. Isobars and Isotherms.

UNITED STATES OF AMERICA.

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

Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 18. 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.60	751.7	60.1	15.6	81	s.			2		10			0.094	2.4		Roziere.
Algiers			29.69	754.1	60.4	15.8	71	nw.			3		4			inap.	inap.		Théve.
La Galle			29.81	757.1	59.4	15.2	62	e.			5		3			0.256	6.5		Fonfrède.
Tunis			29.89	759.3	54.7	12.6	72	nw.			4		5			0	0		Delord.
Geriville					43.2	6.2	85	n.			2		5			0.299	7.6		Forfert.
Laghouat			29.90	759.5	65.5	18.6	77	calm			0		0			0.386	9.8		Abraham.
Biskra			29.87	758.6	57.6	14.2	94	e.			1		8			0.118	3.0		Gouzon.
Australian.																			
Adelaide, South Australia			30.04	763.0	73.5	23.1	60	calm	0	0		1 cs				0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.97	761.2	30.16	766.1	55	12.8	94	s.	5	2.2			10		sw.	0	0	overcast	Com. J. Shortt, R.N.
Melbourne, Victoria	29.97	761.2	30.06	763.5	64.9	18.3	89	sw.	9	4.0			7			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.85	758.2	30.43	773.0	34.2	1.2	50	e.			2		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.67	753.6	30.49	774.4	30.0	— 0.6	70	ene.	3.6	1.6			0			0	0		Dr. Wierzbiski
Eperies	29.52	749.8	30.45	773.5	31.6	— 0.2	56	calm			0		0			0	0		Julius Mikolik.
Gratz	29.18	741.1	30.52	775.1	29.3	— 1.5	50	sw.			2		0			0.055	1.4		Andreas Rospini.
Hermannstadt	28.91	734.4	30.44	773.2	30.7	— 0.7	88	n.			2		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.82	731.9	30.22	767.7	32.9	0.5	70	ene.			5		0			0	0		The Staff.
Lemberg	29.40	746.8	30.45	773.5	29.7	— 1.3	69	n			3		3			0	0	clear	Dr. T. Stanecki.
Pola	30.21	767.4	30.33	770.3	39.6	4.2	46	ene.			5		0			0	0		I. R. Hydrographic Office.
Szathmar	29.93	760.1	30.42	772.6	33.1	0.6	57	n.			4		0			0	0		Joseph Midlinszky, S. J
Szegedin	30.16	766.1	30.46	773.7	33.8	1.0	53	n.			1		0			0	0		Karl Stancel.
Trieste	30.28	769.0	30.37	771.5	36.7	2.6	55	ne.			5		0			0	0		Royal Academy.
Vienna	29.72	754.8	30.48	774.1	32.2	0.1	56	sse.			3		0			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.53	724.7	29.97	761.2	31.1	— 0.5	88	sse.			2		3			0	0		
Brussels	29.74	755.5	29.95	760.8	37.9	3.3	54	ese.			3		0			0	0		
Furnes	29.90	759.5	29.92	760.0	37.4	3.0	61	e.			1		0			0	0		
Maeseyck	29.87	758.8	30.00	762.0	41.4	5.2	44	se			2		0			0	0		
British.																			
Aberdeen	29.88	758.9	29.98	761.5	41.1	5.1	72	se.	25	11.2			7			0	0	d. clouds	W. Boswell.
Bidston, Liverpool Obs'y			29.76	755.9	40.7	4.8	72	ese.	27	12.1			8					d. clouds	John Hartnup.
Bolton, Sharples	29.28	743.7	29.82	757.4	41.3	5.2	70	e.	12	5.4			8					misty	Thomas Mackereth.
Bradford, Yorkshire	29.47	748.5	29.87	758.7	39.1	3.9	78	se.			3		5			0.06	1.5	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.00	762.0	30.03	762.7	77	25.0	77	e.			4		8					overcast	Corp'l C. McGregor, A.H.C
Cardington					40.2	4.6	75	se.			0–8		1					blue sky	John McLaren.
Chatham, School M. E.	29.71	754.6	29.89	759.2	44.5	6.9	58	e.			1		0					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.40	746.7	29.62	752.3	48.0	8.9	96	se.			4		10					raining	The Staff.
Fort Napier, Natal	27.60	701.0	29.91	759.7	80.5	26.9	63	ne.			1		3					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.43	747.5	29.47	748.5	48	8.9	92	e.			2		8			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.56	750.8	29.66	753.4	62.8	17.1	89	w.			4		10					raining	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	29.69	754.1	29.87	758.7	41.5	5.3	72	ese.					0					blue sky	The Staff.
Guernsey	29.46	748.3	29.72	754.9	48.0	8.9	85	sse.			2		10			blank	blank	overcast	A. Collenette, F.R.M.S.
Kew, Observatory	29.81	757.2	29.85	758.2	41.6	5.3	60	ese.	18	8.0			1					blue sky	The Staff.
Leicester, Museum	29.60	751.8	29.86	758.4	40.0	4.4	96	e.			1		1					blue sky	J. C. Smith.
Malta, Mediterranean	29.75	755.6	29.82	757.4	59.0	15.0	91	e.			2		8			0	0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.16	766.1	75.0	23.9	77	s.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.60	751.8	29.83	757.7	41.2	5.1	70	ese.			2		2					misty	The Staff.
Plymouth	29.58	751.3	29.66	753.4	47.0	8.3	98	ese.			3		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.76	755.9	29.86	758.4	41	5.0	82						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.20	767.1	30.27	768.8	35.0	1.7	70	nne.			2		8			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.60	751.8	29.89	759.2	47.3	8.5	92	se.			2		1					blue sky	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss					44.8	7.1	72	se.			1.5		4					d. clouds	Rev. O. H. Griffiths, F.M.S
Valencia, Observatory	29.36	745.7	29.38	746.2	50.5	10.3	82	se.	30	13.4			10			blank	blank	d. clouds	The Met'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.49	749.0	29.88	758.9	56.1	13.4	82	e.	20.5	9.2			10 n		e.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.05	763.3	30.09	764.3	26.0	— 3.3		calm	0	0			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.95	760.7	29.99	761.7	31	— 0.6	100	e.	2	0.9			10 n			0.010	0.3	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.95	760.7	30.01	762.2	29	— 1.7	92	sw.	2	0.9			10 n		sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.55	750.6	29.74	755.4	32.8	0.4	97	se.			1		10 n			0.520	13.2	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.02	762.5	30.07	763.8	22.5	— 5.3		w.			1		10 s			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	30.04	763.0	30.07	763.8	26	— 3.3	96	ne.	8	3.6			10 n			0	0	cloudy	J. McWilliams
Fort Garry, Manitoba*	28.67	728.2	29.59	751.6	8	—13.3	100	e.	11	4.9			10 n		e.	0.25	6.3	light snow	James Stewart.
Fredericton, N. B	29.92	760.0	29.98	761.5	32.0	0.0	98	calm	0	0			10 n			0.130	3.3	snowing	Prof. Thos. Harrison.
Grand Manan, N. B	29.86	758.4	29.92	760.0	35	1.7	100	ne.	12	5.4		0	fg.			0.43	10.9	light rain	J. Chipman Seeley
Granton, Ontario	28.69	728.7	29.83	757.7	31.0	— 0.6	100	calm	0	0		0	1 s			0.320	8.1	blue sky	Jas. Grant.
Halifax, N. S*	29.84	757.9	29.97	761.2	35	1.7	100	sw.	2	0.9			10 n			0.360	9.1	light rain	A. Allison.
Hamilton, Ontario	29.33	745.0	29.76	755.9	32.9	0.5	85	sw.			1	10 cs	0	sw.		0.640	16.3	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.42	747.3	29.76	755.9	33	0.6	88	n.	5	2.2			10 n			0.44	11.2	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	29.89	759.2	29.92	760.0	32.5	0.3	89	ne.	1	0.4		0	0			0.100	2.5	snowing	C. H. Rigby.
London, Ontario	28.91	734.3	29.87	758.7	32.8	0.4	100	calm			0		10 ks			0.02	0.5	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.21	691.1	29.84	757.9	—20	—28.9	76	nw.	30	13.4			10 n			0.09	2.3	cloudy	John Ewart.
Minnedosa, N. W. T	27.44	697.0	29.61	752.1	—14	—25.6	100	e.	17	7.6		0	8 s		s.	0	0	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	29.61	752.1	29.83	757.7	31	— 0.6	96	ne.	8	3.6			10 n			0.17	4.3	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.58	751.3	29.81	757.2	33.3	0.7	98	ne.					10 s			0.020	0.5	raining	A. McCill, M. A.
Parry Sound, Ontario*	29.15	740.4	29.85	758.2	32	0.0	88	n.	8	3.6			10 n		n.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.01	736.8	29.77	756.1	29.7	— 1.3	78	e.			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.18	741.2	29.95	760.7	5	—15.0	96	ne.	8	3.6			10 n			0.05	1.3	misty	W. P. Cooke.
Port Dover, Ontario	29.10	739.1	29.81	757.2	34	1.1	100	calm	0	0			10 n			0.33	8.4	threatening	H. Morgan.
Port Stanley, Ontario	29.17	740.9	29.83	757.7	34	1.1	96	e.	2	0.9			10 n		e.	0.32	8.1	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.16	689.9	29.76	755.9	—21	—29.4		nw.	10	4.5			10 n		calm	0.30	7.6	light snow	Leslie Gordon.
Quebec, Quebec*	29.54	750.3	29.91	759.7	29	— 1.7	92	ne.	20	8.9		10 cs	0	ne.		0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.41	747.0	29.88	758.9	35	1.7	75	se.	6	2.7			10 s		se.	inap.	inap.	threatening	W. H. McIntyre.
St. Andrews, N. B	29.85	758.2	29.90	759.4	35	1.7	94	ne.	3	1.3			10 n			0.38	9.7	light rain	
St. John, N. B	29.80	756.9	29.95	760.7	34.3	1.3	100	ne.	8	3.6			10 n					raining	G. Hutchinson.
St. Pierre, N. F			29.96	761.0	32.0	0.0		w.			1								The Commandant.
Saugeen, Ontario*	29.10	739.1	29.84	757.9	33	0.6	88	n.	2	0.9			10 s					light snow	
Stratford, Ontario	28.51	724.1	29.83	757.7	32.0	0.0	91	calm	0	0			10 s			0.800	20.3	overcast	W. McBride, M.A.
Sydney, C. B*	29.97	761.2	30.03	762.7	32	0.0	92	calm	0	0			10 n			0.01	0.3	light snow	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian—Continued.																			
Toronto, Ontario*	29.43	747.5	29.82	757.4	35	1.7	92	n.	12	5.4			10 n		w.	0.37	9.4	cloudy	Magn. Ob. Observatory.
Woodstock, Ontario	28.74	730.0	29.84	757.9	34.4	1.3	92	n.	1	0.4		2 cs	4 s	n.		0	0	d. clouds	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.76	755 9	29.83	757.7	38	3.3	96	e.	16	7.2			fg			0.73	18.5	raining	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.95	760 7	29.98	761.5	71.0	21.7	90	sw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.81	757.2			75.5	24.2	50	ne.				5 ck	0			0	0		Capt.R.Gardner Warton
Springbok Fontein	27.85	707.4			86	30.0	48									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.90	759.5	29.98	761.4	61.7	16.5	89	n.			3	10						cloudy	Samuel Redolez.
Iquique																			Rafael Moreno.
Niebla	29.58	751.2	29.68	753.9	59.0	15.0	72	e.			4	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.88	758.9	29.97	761.1	67.6	19.8	76	ne.			1	8 cs		ne.				fair	Manuel Tobar.
Punta Corona	29.89	759 3	30.08	764.0							2		10			0	0	misty	Francisco Alvarado.
Valparaiso	29.86	758.4	30.04	762.9	64.2	17.9	89	sw.			1	0	0					clear	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.30	769.5	30.32	770.1	45.7	7.6	79	e.	10.1	4.5			10			0.035	0.9	covered	M.Marc Dechevrens,S. J.
Danish.																			
Copenhagen	30.41	772.5	30.46	773.7	33.6	0.9	94	se.	16	7.			4						Oversergent Fischer.
Fanöe	30.28	769.0	30.30	769.5	35.2	1.8	80	ese.			6		1						Overloerer Lauridsen.
Godthaab, Greenland	29.34	745.3	29.39	746.4	— 7.2	—21.8	100	w.			2–4		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.22	742.3	29.24	742.8	— 5.3	—20.7		ne.			4		10						
Jacobshavn, Greenland	29.34	745.3	29.39	746.5	— 4.7	—20.4		calm			0		8						
Stykkisholm, Iceland	29.30	744.1	29.34	745.2	39.6	4.2	82	se.			6		8						A. O. Thorlacius.
Thorshavn	29.74	755.3	29.76	755.9	42.8	6.0	90	se.	18	8.			10						Overloerer Bergh.
Upernavik, Greenland	29.38	746.2	29.43	747.4	3.9	—15.6		n.			4		3						
Vestervig	30.26	768.5	30.35	770.8	33.3	0.7	75	e.			6		0						Loerer Oesterbol.
Egyptian.																			
Cairo	29.88	758.9			68.0	20.0		n.	7.2	3.2		0	4 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.21	741.8	29.86	758.4	53.2	11.8	78	se.			4	c	6 n;k	se.	se.	0	0		M. Labroue, Director.
Alençon, Normal School	29.30	744.2	29.85	758.2	46.4	8	89	s.			1		2 s		n.	0	0	slightly cl'dy	M. Nicot, Director.
Arras, Normal School	29.58	751.3			39.0	3.9	64	ene.			2		0			0	0	clear	M. Ungerer, Director.
Avignon, Normal School	30.00	762.0	30.08	764 0	47.5	8.6	52	s.			2		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.31	744 5	29.87	758.8	47.3	8.5	66	sse.			1		5		se.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.61	752.0	29.88	759.0	39.4	4.1	65	e.			1		5		sw.	0	0	cloudy	M. Frère Eugène Marlè.
Besançon, Normal School	29.01	736.9	29.89	759.3	43.2	6.2	82	ne.			2		cn		sw.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.51	749.6	29.77	756 2	55.6	13.1	67	se.			4		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.28	743.7	29.83	757.7	55.4	13.	68	e.			1	c		e.		0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.45	748.0	29.71	754 5	50.0	10.0	97	se.			2		10		se.	2.717	69.0	raining	M. de Kermarrée, Dir.
Caen, Normal School	29.67	753.5	29.74	755 4	52.9	11.6	90	sse.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.55	750.6	29.88	758.9	39.4	4.1	73	sse.			1		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.41	747.1	29.93	760.3	36.0	2.2	74	se.			2		10		s.	inap.	inap.	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.48	723.5	29.83	757.7	55.0	12.8	41	s.			2	2 c				0	0		M. Alluard, Director.
Cluny, Normal School	29 04	737 5	29.85	758.2	51.8	11.	55	se.			1		5		se.	0	0	cloudy	M. de Villemontée, Dir.
Cominercy, Normal School	29.10	739.1	30.00	761.9	33.4	0.8	86	e.			4		8 n	e.	e.	0	0	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.51	698 7	30.14	765.5	36.7	2.6	56	e.			4		8 n			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.95	735.4	30.12	765.0	41.5	5.3	75	e.			4		10		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.22	742.1	30.00	761 9	45.7	7.6	77	e.			1	ck				0	0		M. Ablard, Director.
Guéret, Normal School	28.27	718.0	29.84	757.8	53.2	11.8	59	ssw.			1	ck	n		sw.	0	0		M. Delorme, Dir.
Lescar, Normal School	29.20	741.7	29.76	755.8	64.4	18.0	59	ese.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.60	751.8	29.70	754.4	50.7	10.4	80	se.			4		10	wsw.	se.	0.067	1.7	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.87	733.2	29.94	760 4	47.3	8.5	52	s.			6		8 cn			0	0	very cloudy	M. André, Director.
Mans, Normal School	29.49	749.0	29.80	756 9	49.1	9.5		s.			6	5 ck			se.	0	0	cloudy	M. Richard, Director.
Marseille, Observatory	29.77	756 1	30.04	763 1	46.4	8.0	75	ese.			4		10		s.	0	0		M. Stephan, Director.
Montlouis	24.67	626.6	29.51	749 6	37.4	3.0	74	sw.	20.6	9.2			8	nw		0.063	1.6		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.3	30.05	763.3	43.9	6 6	100	ne.			2		5		e.	0.20	5.	raining	M. Galzin, Director.
Nancy, Normal School	29.19	741.3	30.00	762.1	33.1	0.6	57	ne.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	29.61	752.1	29.77	756 2	54.5	12.5	69	se.			1–2	ck; c	7 k;kn		s.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.91	759.6	30.02	762.5	47.8	8.8	86	se.	18.6	8.3			10		se.	0.224	5.7		Dr. Fines, Director.
Pic-du-Midi, Summit	21.01	533.7			26.6	— 3.0		sw.			2		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.97	735.9	30.06	763.6	42.8	6	82	n.			1			s.	s.	0.08	2.		M. Tallieu.
Puy de Dôme Obs'y, Summit	24.97	634.1			35.2	1.8	89	s.			2		2			0	0		M. Alluard.
Rochefort, Naval Obs'y	29.73	755.2	29.76	756.0	58.3	14.6	63	sse.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.56	750.8	29.78	756.4	53.2	11.8	76	se.			1			n.	se.	0	0		M. Brotier, Director.
Rodez, Normal School	27.74	704.5	29.91	759.8	42.6	5.9		nw.			6–8	5 ck			nw.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.82	757.4	29.87	758.6	40.3	4.6	80	e.			1		5	e.		0	0	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.70	754.3	29.86	758.5	41.9	5.5	72	se.			1				sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.11	739.5	29.84	757.8	52.9	11.6	65	sse.			8		5	se.		0	0	cloudy	M. Baillard, Director.
Tours	29.63	752.6	29.81	757.2	51.4	10.8	68	ese.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.35	745.6	29.85	758.1	38.5	3.6	70	se.			1		10			0.012	0.3	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.61	752.0	29.76	755.8	63.9	17.7	40	s.	19.7	8.8		3 ck		s.		0	0		M. Cartier, Director.
German.																			
Ansbach	28.62	726.9	30.11	764.9	39.6	4.2	29	se.			4		0			0	0		Prof. Jnedt.
Bamberg	29.26	743.1	30.10	764.6	39.2	4.0	45	se.			3		0			0	0		Prof. Dr. Hoh.
Berlin	30.24	768.1	30.39	772.0	34.7	1.5	71	e.			3		0			0	0		Meteorological Institute
Breslau	29.94	760.4	30.48	774.1	31.1	— 0.5	61	ese.			3		0			0	0		Royal University Obs'y
Carlsruhe	29.58	751.2	30.05	763.2	38.8	3.8	42	ne.			1		0			0	0		Albert Senz.
Cassel	29.41	746.9	30.12	765.0	41.5	5.3	33	se.			5		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.72	754.9	30.10	764.5	40.8	4.9	26	ese.			2		0			0	0		Physical Society.
Friedrichshafen	28.60	726.3	30.08	763 9	33.8	1.0	59	wsw.			3		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.21	767.3	30.30	769.6	35.1	1.7	63	ese.			5		1			0	0	misty	E. Prefler.
Kiel	30.33	770.3	30.34	770.7	34.2	1.2	64	e.			2		1			0	0		Prof. Dr.G. Karsten.
Leipsic, Astrom'l Obs'y	29.85	758.3	30.30	769.5	37.0	2.8	55	e.			3		0			0	0		H. Leppig, Asst.
Magdeburg	30.10	764.4	30.29	769.4	39.2	4.0	39	ese.			3		0			0	0		Weather Observatory.
Memel	30.52	775.3	30.57	776.5	32.5	0.3	94	nw.			3	10 cs							Issermann.
Munich	28.19	716.0	30.05	763 3	40.5	4.7	32	e.			0		0			0	0		Central Station.
Neufahrwasser	30.56	776.3	30.58	776.7	29.1	— 1.0	86	se.			2		6	s.		0	0		A. Lothes.
Neustadt, Palatinate	29.51	749.6	30.05	763.2	37.9	3.3	49	e.			2		0			0	0		Prof. Dicknether.
Stuttgart	29.08	738 5	30.00	762.0	38.7	3.7	40	s.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.37	771.3	30.39	771.9	34.2	1.2	78	se			2		3 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.85	758.3	30.25	768.4	46.0	7.8		ne.			3.0	0	6			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.98	761.5	30.03	762 8	66.4	19.1	64	ene.	39.0	17.4			10			0	0	gloomy	
Deesa	29.52	749.7	29.99	761.8	82.1	27.8	33	n.	2.0	0.9			8	wnw.	wnw.	0	0	d. clouds	
Bombay	29.92	760.0	29.96	761 0	79.6	26.4	75	nw.	15.0	6.7			0			0	0	blue sky	
Poona, Yarrowda	28.09	713.4	29.91	759.8	89.1	31.7	18	w.	5.0	2.2			0			0	0	blue sky	
Belgaum	27.41	696.1	29.90	759.4	85.5	29.7	23	ese.	2.0	0.9			4	s.	e.	0	0	d. clouds	
Lahore	29.40	746.7	30.17	766.3	66.5	19.2	43	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	29.15	740.4	30.07	763.9	69.7	20.9	32	w.					0			0	0	blue sky	
Agra	29.48	748.9	30.06	763.5	75.2	24.0	35	nw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.95	735 4	29.99	761.8	83.5	28.6	20	ne.	3.0	1.3			1			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Dubbulpore	28.68	728.3	30.04	763.0	79.4	26.3	36	calm	0	0			2			0	0	d. clouds	
Lucknow	29.67	753.6	30.05	763.4	73.2	22.9	30	nw.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.72	754.8	30.03	762.8	76.4	24.7	44	calm	0	0			0			0	0	blue sky	
Patna	29.82	757.4	30.01	762.3	74.5	23.6	36	nw.	2.2	1.0			0			0	0	blue sky	
Hazaribagh	27.98	710.6	30.02	762.5	72.6	22.6	23	nw.	6.0	2.7			0			0	0	blue sky	
Cuttack	29.95	760.7	30.05	763.3	81.0	27.2	58	ssw.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	30.00	762.0	30.02	762.5	76.2	24.6	62	s.	2.5	1.1			0			0	0	blue sky	
Dhubri	29.92	759.8	30.04	763.0	67.2	19.6	70	ne.	8.9	4.0			6			0	0	d. clouds	
Chittagong	29.96	760.9	30.05	763.3	72.6	22.6	73	w.	2.4	1.1			0			0	0	blue sky	
Sibsagar	29.77	756.0	30.12	765.1	58.7	14.8	85	ne.	2.0	0.9			8	w.	w.	0.19	4.8	d. clouds	
Jeypore	28.61	726.7	30.07	763.9	74.7	23.7	35	nnw.	4.4	2.0			10		nw.	0	0	overcast	
Zanzibar	29.85	758.1	29.87	758.7	83.8	28.8	76	ese.	2.7	1.2			5		sse.	0	0	d. clouds	
Bellary	28.48	723.4			88.5	31.4	26	e.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.73	755.1			86.9	30.5	45	ne.	0.3	0.1		3	3			0	0	d. clouds	
ITALIAN.																			
Udine	29.95	760.7	30.37	771.5	38.1	3.4	38	se.	10.5	4.7			0			0	0		Prof. Giovanni Clodig.
Milan	29.85	758.2	30.39	771.9	38.5	3.6	43	e.	6.3	2.8			8	nw.		0	0		Prof. G. V. Schiapparelli
Padua	30.25	768.3	30.36	771.2	36.9	2.7	38	nne.	15.0	6.7			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.42	747.3	30.36	771.2	36.3	2.4	62	nw.	1.8	0.8			10			0	0		Prof. F. F. Denza.
Genoa	30.06	763.4	30.25	768.4	38.7	3.7	53	n.	11.2	5.0			10	s.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.27	768.7	30.32	770.0	40.8	4.9	46	ne.	14.3	6.4			7	ne.		0	0		Prof. Luigi Guidi.
Florence	29.95	760.7	30.21	767.4	42.1	5.6	44	ne.			8		2			0	0		Prof. Costantino Pittei.
Leghorn	30.06	763.5	30.13	765.3	43.3	6.3	37	ene.	16.8	7.5			7	ene.		0	0		Prof. P. Monte.
Rome	29.93	760.1	30.10	764.6	49.1	9.5	35	nne.	3.1	1.4			6			0	0		Prof. P. Tacchini.
Lecce	29.91	759.8	30.17	766.4	45.0	7.2	71	e.	12.5	5.6			9			0	0		Prof. C. de Giorgi.
Cosenza	29.20	741.6	30.11	764.9	45.0	7.2	71	wnw	3.8	1.7			10	nw.		0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.69	754.1	29.95	760.6	56.1	13.4	59	ne.	3.8	1.7			10			0.063	1.6		Prof. G. Caccintore
Syracuse	29.87	758.8	29.92	759.9	53.6	12.0	70	ene.	31.1	13.9			10	ese.		0.016	0.4		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.58	751.2	30.12	765.0	44.8	7.1	52	ne.	14.3	6.4			8	n.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.04	763.0	30.07	763.9	33.6	0.9	93	nw			7		10 ks			0.177	4.5	cloudy	H. Hattori.
Awomori	29.94	760.5	29.98	761.5	32.2	0.1	85	nw.	22.6	10.1		0	8 s			0.059	1.5	cloudy	K. Ogawa.
Hakodate	29.96	760.8	29.97	761.1	34.0	1.1	72	nw.	12.0	5.4		0	8 s			0	0	cloudy	Y. Souma.
Hamamatsu	30.13	765.3	30.23	767.8	35.0	1.7	72	wnw.			4	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.37	771.4	30.39	771.8	35.9	2.2	74	e.	3.4	1.5		0	0			0	0	clear	Y. Okamoto.
Kagoshima	30.31	770.6	30.35	770.9	40.1	4.5	60	nnw.			2	0	0			0	0	clear	
Kanazawa	30.21	767.4	30.32	770.1	35.8	2.1	67	w.	2.5	1.1		1 ck	8s;ks			0.023	0.6	cloudy	S. Endo.
Kioto	30.15	765.8	30.32	770.2	31.3	— 0.4	87	nw.	0.2	0.1		0	0			0.004	0.1	clear	M. Tojima.
Kochi	30.32	770.1	30.34	770.6	40.0	4.4	68	ne.	5.1	2.2		0	0			0	0	clear	K. Kusunose.
Miasaka	30.32	770.1	30.35	770.8	39.0	3.9	86	nw.			1	0	0			0	0	clear	K. Masusaki.
Miyako	29.79	756.7	29.90	759.5	34.2	1.2	70	nnw.	2.1	0.9		0	0			0.004	0.1	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.18	766.6	30.40	772.1	37.9	3.3	70	calm	0	0		0	0			0	0	clear	
Nemuro	29.62	752.3	29.67	753.6	30.0	— 1.1	83	ese.	18.0	8.0		0	6 s			0	0	fair	A. Shibuya.
Niigata	30.17	766.3	30.20	767.1	35.0	1.7	72	wnw.	10.6	4.7			10 s		nw.	0.040	1.0	covered	Satoo & Tomikawa.
Nobiru	29.96	761.0	29.98	761.4	33.0	0.6	79	nw.	36.4	16.3		0	5 s			0	0	fair	Yoshino & Midzushina.
Numadzu	30.11	764.8	30.14	765.6	33.1	0.6	56	nne.			2	0	0			0	0	clear	T. Ohgi.
Osaka	30.33	770.3	30.34	770.7	33.7	0.9	85	n.	1.0	0.4		0	2 s			0	0	clear	H. Omura.
Sakai	30.35	770.9	30.36	771.1	35.9	2.2	81	wsw.			2	0	8 ks		wnw.	0	0	cloudy	Yamawchi & Sakamoto.
Sapporo	29.84	758.0	29.91	759.8	31.2	— 0.4	100	n.	19.9	8.8		0	5 ns			0	0	clear	S. Kimura.
Shimonoseki	30.24	768.2	30.39	771.9	36.8	2.7	76	nne.			1	0	0			0	0	clear	S. Sakano.
Wakayama	30.29	769.3	30.34	770.7	38.1	3.4	65	ne.	1.0	0.4		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.80	756.9	29.99	761.7	81.1	27.3	77	e.	17.0	7.6		2cs;ck	6ks;ku	wnw.	e.	0.06	1.5	fair	The Staff.
MEXICAN.																			
Leon	24.36	618.7	30.21	767.3	45.7	7.6	63	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina
Mazatlan	29.83	757.6	30.09	764.3	64.0	17.8	73	e.	0.9	0.4		0	0			0	0	light haze	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.96	760.9	29.96	760.9	37.4	3.0		ese.			4					0	0		
Groningen	30.09	764.3	30.15	765.7	34.5	1.4		ese.								0	0		
Helder	30.06	763.6	30.06	763.6	33.4	0.8		e.			4					0	0		
Hellevoetsluis	29.99	761.8	29.99	761.8	41.4	5.2	46	e.			4					0	0		
Utrecht	29.99	761.8	30.05	763.2	37.9	3.3	30	ese.			4		0			0	0	clear	H. van der Brink.
Sub-series.																			
Batavia, Java	29.93	760.1			79.7	26.5	86	n.	0	0			2			0.358	9.1		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.24	768.0	30.30	769.6	35.6	2.0	64	calm	0	0			0			0	0		
Brono	30.28	769.1	30.32	770.1	35.6	2.0	68	calm			0		0			0	0		
Christiania	30.26	768.7	30.42	772.7	30.2	— 1.0	82	sw.	7	3			10					snowing	
Gjesvær	30.13	765.3	30.15	765.9	35.8	2.1		nw.			7		10			0.079	2.0	hailing	
Lodingen	30.32	770.1	30.37	771.3	32.2	0.1	81	calm			0		10			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.78	756.4	29.87	758.6	63.0	17.2	59	w.	10.5	4.7			1	nw.		0.004	0.1		Capt. D. A. de Cunha.
Lisbon, Observatory	29.39	746.6	29.73	755.1	55.2	12.9	67	ssw.	16.8	7.5			9			0	0		The Staff.
Ponta Delgada, Azores	29.89	759.1	29.96	760.9	46.0	7.8	66	nnw.	26.6	11.9			3			0.228	5.8		
Saint Paul de Loando																		haze	
St. Vincent, Cape Verd Ids.	29.98	761.5	30.02	762.4	68.9	20.5	69	ene.			2		9			0	0		
San Salvador, Congo	28.03	711.9	29.82	757.5	87.6	30.9	55	s.			1		8			0	0		
Serra da Estrella	24.95	633.8	29.75	755.6	36.7	2.6	100	se.	16.8	7.5			10			0.130	3.3	foggy	
RUSSIAN.																			
Akmolinski	28.90	734.2	30.11	764.8	— 2.7	—19.3	87	s.	4	2		5 cs	0			0	0		Major K. Lasarew.
Archangel	29.96	760.9	29.98	761.4	22.3	— 5.4	87	sw.	4	2			10			0	0	light clouds	Capt. Sselliwerstow
Ashurada	30.03	762.7	29.93	760.3	51.4	10.8	70	n.	9	4			10 s;n			0	0	light clouds	
Astrakhan	30.07	763.7	29.99	761.7	20.3	— 6.5	76	w.	11	5			10 n						Capt. Wisganow.
Baku	30.07	763.7	30.02	762.5	36.0	2.2	87	nnw.	13	6		0	8 ks			0.181	4.6		
Barnaul	29.82	757.4	30.37	771.5	7.3	—13.7	71	ssw.	13	6			3			0	0		Meteorological Office.
Bielosersk	29.67	753.7	30.17	766.4	21.6	— 5.8	89	calm	0	0			10 n			0.024	0.6	snowing	
Dorpat	30.20	767.0	30.46	773.6	25.9	— 3.4	98	wnw.	4	2			10 n			0.008	0.2		Observatory.
Ekaterinburg	28.70	728.9	29.72	755.0	14.0	—10.0	94	wsw.	4	2			10			0.063	1.6	snowing	Meteorological Obs'y
Elissawetgrad	29.82	757.3	30.30	769.6	23.0	— 5.0	95	n.	9	4			10 ku			0.020	0.5		
Kasan	29.56	750.8	29.85	758.2	15.6	— 9.1	66	n.	2	1			8			0	0		Observatory.
Kem	30.08	763.9	30.13	765.2	31.5	1.4	72	wnw.	13	6			10 ks			0	0	h'vy clouds	
Kertch	30.15	765.8	30.17	766.4	24.8	— 4.0		n.	4	2			10 n					light snow	Bagorio & Sastyres.
Kief	29.61	752.2	30.30	769.5	24.2	— 4.2	91	nnw.	7	3			10 n					snowing	Observatory.
Koslov	29.42	747.3	29.95	760.8	26.4	— 3.1	81	nw	11	5			10 s					snowing	
Igov	29.61	752.1	30.23	767.9	26.2	— 3.2	86	nnw.	16	7			10			map	map.	light snow	R. I. Ssaweljew, Engin'r.
Libau	30.53	775.4	30.55	776.0	33.3	0.7	80	nw.	7	3			10			0	0		[illegible]
Lugan	29.86	758.5	30.08	764.1	24.4	— 4.2	77	nw.	13	6			10			0.016	0.4		Meteorological Obs'y
Moscow	29.64	752.9	30.15	765.9	24.6	— 4.1	72	n.	7	3			10 s			0.008	0.2		Meteorological Obs'y
Nertschinsk	28.00	711.3	30.63	778.1	—10.3	—23.5	62	calm	0	0			0			0	0		
Nikolaiev	30.23	767.8	30.30	769.6	23.5	— 4.7	72	nne.	13	6			10 n			0.004	0.1	light snow	Capt. Kurdakow.

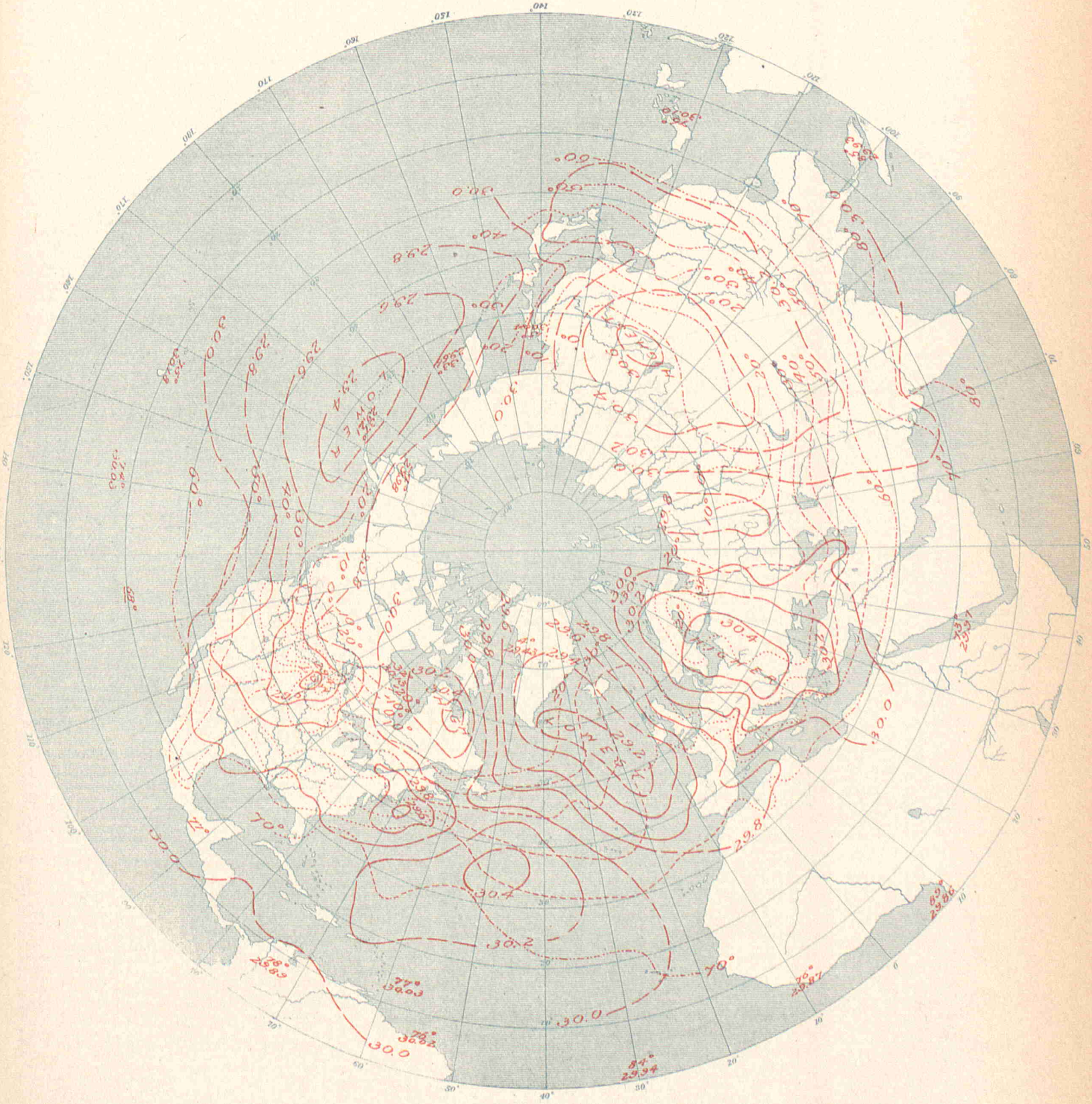
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolnievsk-on-the-Amoor.	29.95	760.7	30.04	762.9	14.7	— 9.6	92	w.	2	1	.....	8 ck	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.20	767 0	30.34	770.6	32.9	0.5	51	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Siang.
Petro-Alexandrovsk	29.61	752.2	29.97	761.3	49.3	9.6	42	ne.	2	1	.....	.....	7	.....	.....	.....	.....	.....	Walter.
Petrozavodsk	29.96	761.0	30.17	766.2	33.3	0.7	73	nw.	11	5	.....	0	8 ks	.....	.....	0.012	0.3	.....	Dr. Bergmann.
Pinsk	29.93	760.1	30.46	773.6	27.0	— 2.8	96	nnw.	9	4	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.02	762.4	30.05	763.2	40.3	4.6	82	nw.	9	4	.....	.....	10 n	.....	.....	0.244	6.2	raining	
St. Petersburg	30.34	770.6	30.36	771.2	23.2	— 4.9	90	nw.	13	6	.....	.....	10 kn	.....	.....	inap	inap.	.....	Central Physical Obs'y.
Samarkand	27.55	699.8	30.04	763.0	49.6	9.8	56	calm	0	0	.....	3 c	0	.....	.....	.....	.....	.....	Dresch.
Semipalatinsk	29.66	753 4	30.40	772.1	5.2	—14.9	73	se.	9	4	.....	.....	6	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.99	761.8	30.22	767.6	27.0	— 2.8	70	ne.	20	9	.....	5 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	29.77	756.1	30.36	771.2	25.9	— 3.4	87	n.	11	5	.....	.....	10	.....	.....	0	0	.....	Carl Hagen.
Tashkend, Laboratory	28.41	721.5	30.10	764.6	48.4	9.1	59	calm	0	0	.....	.....	10 k	.....	.....	.....	.....	light clouds	Tercn, A. M
Tiflis	28.52	724.3	29.98	761.6	37.4	3.0	57	nw.	13	6	.....	0	2 k	.....	.....	0.063	1.6	.....	Physical Observatory.
Vernoe	27.62	701.5	30.28	769.0	25.2	— 3.8	80	calm	0	0	.....	0	7 k	.....	.....	.....	.....	.....	Sariono.
Viatka	29.21	742.0	29.89	759.2	12.6	—10.8	65	nne.	2	1	.....	.....	10	.....	.....	0.031	0.8	.....	
Vladivostock	29.95	760.6	30.01	762.3	12.4	—10.9	56	nne.	13	6	.....	.....	0	.....	.....	0	0	.....	
Warsaw	30.10	764 4	30.55	775.9	28.6	— 1.9	72	n.	4	2	.....	2 cs	0	.....	.....	.....	.....	light clouds	Astronomical Obs'y.
Yeniseisk	30.21	767.4	30.51	775.7	— 2.9	—19.4	79	sw.	2	1	.....	.....	4	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.53	750 0	30.06	763.5	22.8	— 5.1	57	nne.	13.6	6.1	.....	.....	9 k	.....	n.	0.07	1.8	cloudy	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.82	757.4	29.93	760.2	50.4	10.2	99	ne.	.....	.....	.....	.....	10	.....	.....	0.031	0.8	rainy	B.J.Elin.
Bilbao, Met. Obs'y	29.65	753.1	29.71	754.6	62.6	17.0	50	se.	8.5	3.8	.....	2	6	nw.	.....	0	0	almost cov'd	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.82	681.2	29.78	756.3	53.1	11.7	60	se.	12.5	5.6	.....	0	6	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27 60	701.0	29.84	757.8	52.2	11.2	73	se.	12.5	5.6	.....	.....	10	.....	.....	0.209	5.3	covered	The Staff.
Murcia, Met. Obs'y	29.53	752.6	29.75	755.7	59.4	15.2	83	e.	1.3	0.6	.....	5	5	wnw.	.....	0	0	foggy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.66	727.9	29.54	750.4	55.4	13.0	66	s.	8.7	3.9	.....	.....	9	.....	.....	0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.05	763.2	30.12	764.9	68.3	20.2	92	se.	0.7	0.3	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.04	763.1	30.10	764.5	76.0	24.4	76	ese.	16.5	7.4	.....	0	8	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	29.787	756.4?	29.88?	758.9?	59.7	15.4	75	wnw.	8.0	3.6	.....	0	8	.....	w.	1.172	29.8	raining	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	30.11	764.9	30.21	767.2	74.8	23.8	86	se	7.4	3.3	.....	.....	10	.....	se.	0.193	4.9	overcast	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	30.35	770.8	30.39	771.8	9.0	—12.8	100	calm	.....	.....	0	.....	.....	.....	.....	0	0	foggy	
Umea	30.33	770.4	30.38	771 7	16.9	— 8.4	94	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	30.34	770.6	30 39	771.9	20.1	— 6.6	84	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Stockholm	30.31	769.9	30.49	774.4	27.0	— 2.8	92	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	30.42	772.6	30.48	774.1	34.5	1.4	78	wsw.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.38	771.6	30.47	773.8	26.6	— 3.0	96	wsw.	8.1	3.6	.....	.....	10	.....	.....	0	0	.....	H.H.Hildebrandesson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.32	770.0	34.7	1.5	67	n.	27	12.0	.....	.....	9	.....	ne.	0.126	3.2	snowing	The Observatory.
Valona	.....	.....	30.17	765.2	49.8	9.9	.....	ne.	.....	.....	2	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.95	760.8	52.5	11.4	72	ne.	.....	.....	2	.....	6 n	.....	nw.	1.045	26.6	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.72	754 9	29.81	757.2	39	3.9	86	calm	0	0	.....	.....	fg.	.....	.....	0.77	19.6	dense fog	J. O. Barnes.
Alpena, Michigan	29.20	741 7	29.91	759.7	31.8	— 0.1	88	e.	6	2.7	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.67	626 6	29.77	756.1	37.8	3.2	88	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.07	1.8	threatening.	J. B. Turton.
Assinnaboine, Ft., Montana	26 68	677.7	29.72	754.9	—14.0	—25.6	100	n.	8	3.6	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	F. Newman.
Atlanta, Georgia	28.78	731 0	30.00	762.0	53.0	11.7	95	w.	7	3.1	.....	0	8 ks	.....	w.	0.06	1.5	cloudy	S. W. Beall.
Atlantic City, New Jersey	29.79	756.7	29.80	756.9	43.0	6.1	100	sw.	8	3.6	.....	.....	10 n	.....	.....	0.56	14.2	light rain	B.A.Blundon.
Augusta, Georgia	29.80	756.9	30.00	762.0	53.5	11.9	93	calm	0	0	.....	.....	10s; fg	.....	w.	1.08	27.4	cloudy	W.J.Evans.
Baltimore, Maryland	29.80	756.9	29.85	758.2	43.8	6.6	93	s.	3	1.3	.....	.....	10s; fg	.....	sw.	0.50	12.7	cloudy	Geo. W. Felgar.
Barnegat City, New Jersey	29.79	756.7	29.81	757.2	45.5	7.5	95	w.	7	3.1	.....	.....	10n; fg	.....	.....	0.15	3.8	light rain	F.L.Johnson.
Bennett, Fort, Dakota	27.60	701.0	29.33	745.0	15.0	— 9.4	67	se.	11	4.9	.....	5 k	5 s	se.	se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	26.78	680.2	29.78	756.4	—17.0	—27.2	100	ne.	7	3.1	.....	0	6 s	.....	sw.	blank	blank	fair.....?	Thomas Morgan.
Bismarck, Dakota	27.42	696.5	30.40	772.1	7.0	—13.9	80	se.	9	4.0	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.70	754.4	29.73	755.1	39.0	3.9	86	nw.	17	7.6	.....	.....	10 s	.....	.....	1.06	26.9	cloudy	J. T. Eiker.
Boise City, Idaho	26.72	678.7	29.08	753 9	25.8	— 3.4	95	nw.	12	5.4	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	James Kenealy.
Boston, Massachusetts	29.58	751.3	29.74	755.4	37.0	2.8	100	n.	15	6.7	.....	.....	10 n	.....	ne.	0.83	21.1	light rain	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.99	761.7	64.0	17.8	100	s.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	John McGlone.
Buffalo, New York	29.05	737.9	29.84	757.9	33.5	0.8	96	w.	3	1.3	.....	.....	10 n	.....	.....	0.34	8.6	light rain	Wm. Finn.
Buford, Fort, Dakota	27.24	691.9	29.45	748.0	— 3	—19.4	95	nw.	9	4.0	.....	9 cs	0	nw.	.....	0	0	cloudy	A. Schneider.
Cairo, Illinois	29.57	751.1	29.99	761.7	43.8	6.6	85	nw.	4	1.8	.....	.....	10 s	.....	nw.	0.28	7.1	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.44	747.8	29.64	752 8	32.2	0.1	87	w.	25	11.2	.....	0	3 ks	.....	.....	0.09	2.3	clear	J.H.Young.
Cape Henry, Virginia	29.88	758.9	29.90	759.4	49.0	9.4	100	w.	6	2.7	.....	.....	10 n	.....	.....	0.50	15.7	light rain	A. K. Alderson.
Cape May, New Jersey	29.85	758.2	29.88	758.9	41.0	5.0	92	sw.	13	5.8	.....	.....	10 n	.....	.....	0.13	3.3	light rain	W.E.Smith.
Cape Mendocino, California	29.19	741.4	29.89	759.2	35.5	1.9	71	w.	.....	.....	2	0	5 s	.....	nw.	0.09	2.3	fair	A. P. Leavitt.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	64.0	17.8	95	se.	3	1.3	.....	0	0	.....	.....	0.69	17.5	clear	G. W. Davis.
Charleston, S. Carolina	29.92	760.0	29.98	761.5	60.0	15.6	87	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.33	8.4	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.05	737.9	29.94	760.5	48.1	8.9	99	sw.	5	2.2	.....	.....	fg.	.....	.....	0.40	10.2	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.10	739.1	29.96	761 0	53.5	11.9	83	sw.	8	3.6	.....	0	9 ks	.....	sw.	0.19	4.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.31	592.1	29.58	751.3	33.2	0.7	41	w.	16	7.2	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.09	738.9	29.84	757.9	36.7	2.6	83	nw.	3	1 3	.....	.....	fg.	.....	.....	0.18	4.6	dense fog	Wm. Norrington.
Chincoteague, Virginia	29.81	757.2	29.83	757.7	45.0	7.2	100	nw.	7	3.1	.....	.....	10 n	.....	nw.	0.62	15.7	light rain	C. F. Dickens
Cincinnati, Ohio	29.17	740.9	29.86	758.4	50.9	10.5	87	w.	3	1.3	.....	0	9 s	.....	w.	0.50	12.7	cloudy	L.Dunne.
Cleveland, Ohio	29.07	738 4	29.86	758.4	36.0	2.2	100	se.	3	1.3	.....	.....	10n; fg	.....	se.	0.44	11.2	light rain	W.Line.
Columbus, Ohio	28.93	734.8	29.83	757.7	47.3	8.5	89	nw	2	0.9	.....	.....	10n; fg	.....	.....	0.36	9.1	light rain	F.T. Williams
Concho, Fort, Texas	27.86	707.6	29.88	758.9	50.1	10.1	48	s.	24	10.7	.....	0	8 s	.....	s.	0	0	cloudy	C. E. King.
Custer, Fort, Montana	26.17	664.7	29.53	750 0	— 1	—18.3	87	n.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	W.J.Daily.
Davenport, Iowa	29.11	739.4	29.81	757.2	35	1.7	79	s.	4	1.8	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	R. R. Martin.
Davis, Fort, Texas	25.02	635 5	29.98	761.5	39.0	3 9	74	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington Ty	27 81	706.4	29.63	752.6	20.5	— 6.4	66	w.	10	4.5	.....	2 cs	5 ks	w.	w.	0.90	22.9	fair	H.S.Blandford.
Deadwood, Dakota	24.52	622.8	29.44	747.8	38.0	3.3	73	sw.	26	11.6	.....	5 k	0	w.	.....	0	0	fair	G.Kingsbury.
Delaware Breakwater, Del.	29.85	758 2	29.87	758.7	41.9	5.5	100	sw.	12	5.4	.....	.....	10 n	.....	sw.	0.86	21.8	light rain	G.A.Martin.
Denver, Colorado	24.08	611.6	29.60	751.8	41.3	5.2	50	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.84	732 5	29.80	756.9	24	— 4.4	73	se.	6	2.7	.....	.....	10 s	.....	se.	0.01	0.3	cloudy	F. W. Conrad.
Detroit, Michigan	29.12	739.0	29.87	758.7	39.0	3.9	89	ne.	6	2.7	.....	.....	fg.	.....	.....	0.43	10.9	dense fog	N.B.Conger.
Dodge City, Kansas	26.90	683 2	29.64	752 8	34.5	1.4	85	se.	26	11.6	.....	3 cs	1 s	.....	.....	0	0	fair	J.E.Lanouette.
Dubuque, Iowa	29.07	738.4	29.83	757.7	36	2.2	90	nw.	2	0.9	.....	.....	fg.	.....	.....	0.04	1.0	dense fog	J. Harvey Smith
Duluth, Minnesota	29.06	738.1	29.87	758.7	9.0	—12.8	87	ne.	24	10.7	.....	.....	10 n	.....	.....	0.13	3.3	light snow	E.R.Brace.
Eastport, Maine	29.84	757.9	29.91	757.7	34.0	1.1	94	ne.	15	6.7	.....	.....	10n; fg	.....	ne.	0.49	12.4	light rain	D. C. Murphy.
Elliott, Fort, Texas	26.88	682.7	29.78	756.4	32	0.0	94	se.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.05	661 7	29.93	760.2	47.1	8.4	53	w.	4	1.8	.....	1 ck	0	sw.	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.08	738.6	29.85	758.2	36.5	2.5	94	nw.	2	0.9	.....	.....	fg.	.....	.....	0.40	10.2	dense fog	C. A. Shaw.
Escanaba, Michigan	29.18	741.2	29.90	759.4	24.4	— 4.2	82	n.	9	4.0	.....	.....	fg	.....	.....	1.08	27.4	dense fog	L.M.Pindell.
Fort Smith, Arkansas	29.41	747.0	29.91	759.7	38.0	3.3	89	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Campbell.
Galveston, Texas	29.94	760.5	29.98	761 5	58.0	14.4	91	s.	7	3.1	.....	0	0	.....	.....	0.03	0.8	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.12	739 6	29.84	757.9	37.0	2.8	100	ne.	1	0.4	.....	.....	fg	.....	.....	0.24	6.1	dense fog	Joseph E. Muelle
Grant, Fort, Arizona	24 97	634.2	29.83	757.7	40.3	4.6	74	nw.	8	3.6	.....	.....	10 s	.....	nw.	0	0	cloudy	Chas. A. Read.
Hatteras North Carolina	29.87	758.7	29.88	758.9	58.3	14.6	100	w	10	4.5	.....	6 k	3 s	sw.	w.	1.60	40.6	cloudy	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.13	638.3	29.48	748.8	18	— 7.8	87	sw.	2	0.9			10 s			0.10	2.5	cloudy	S. W. Morrison.
Huron, Dakota	28.03	711.9	29.55	750.6	11.2	—11.6	75	se.	19	8.5			10 s			0.01	0.3	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.01	736.8	29.86	758.4	42.5	5.8	88	sw.	2	0.9			fg.			0.46	11.7	dense fog	C. F. R. Wappenhaus.
Indianola, Texas	29.92	760.0	29.95	760.7	55.2	12.9	97	se.	12	5.4		0	2 s			inap.	inap.	clear	I. A. Reed.
Jacksonville Florida	30.00	762.0	30.05	763.3	64.5	18.1	92	sw.	11	4.9		1 k	0	sw.		0.88	22.4	clear	J. W. Smith.
Keokuk, Iowa	29.18	741.2	29.88	758.9	32.2	0.1	88	sw.	2	0.9			10 s		sw.	0.02	0.5	cloudy	F. Z. Gosewisch.
Key West, Florida	30.10	764 5	30.12	765.0	74	23.3	84	w.	4	1.8		0	1 ks			inap.	inap.	clear	A. W. Browne.
Kittyhawk, North Carolina					56.0	13.3	95	nw.	11	4.9			10 s		nw.	0.91	23.1	cloudy	Wesley Blake.
Knoxville, Tennessee	28.87	733.3	29.95	760.7	49.2	9.6	98	sw.	7	3.1			10 s			0.09	2.3	cloudy	J. A. Ody.
La Crosse, Wisconsin	28.95	735.3	29.79	756.7	35	1.7	89	s.	4	1.8			fg.			0.02	0.5	dense fog	S. C. Emery.
Leavenworth, Kansas	28.87	733.3	29.82	757.4	30	— 1.1	82	s.	12	5.4			10 s			0.02	0.5	cloudy	T. S. Outram.
Lewiston, Idaho	28.79	731.3	29.66	753.4	8.5	—13.1	65	se.	2	0.9		0	0			0.31	7.9	clear	C. E. Butler.
Little Rock, Arkansas	29.63	752.6	29.96	761.0	40.0	4.4	82	nw.	1	0.4		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.48	748 8	29.88	758.9	48.5	9.2	89	ne.	8	3.6		0	2 s			1.60	40.6	clear	T. S. Collins.
Louisville, Kentucky	29.28	743 7	29.86	758.4	52.6	11.4	82	w.	8	3.6			10 s		w.	0.22	5.6	cloudy	L. M. Dey.
Lynchburg, Virginia	29.14	740.1	29.86	758.4	43.0	6.1	93	sw.	2	0.9			10s;fg			0.46	11.7	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.18	741 2	29.88	758.9	33.1	0.6	88	e.	8	3.6			10 s			0.20	5.1	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.92	760.0	29.92	760.0	56.5	13.6	96	w.	13	5.8		0	9 s		sw.	0.64	16.3	cloudy	William Daly.
Maginnis, Fort, Montana	25.43?	645.9?	30.18?	766.6?	— 1.2	—18.4	72	nw.	8	3.6		5 ck	0	nw.		0	0	fair	F. Burke.
Marquette, Michigan	29.14	740.1	29.92	760.0	21.0	— 6.1	87	n.	3	1.3			10 s			0.12	3.0	cloudy	J. Gilligan.
Memphis, Tennessee	29.62	752.3	29.96	761.0	43.5	6.4	88	nw.	2	0.9			10 s			inap.	inap.	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.03	737.3	29.83	757.7	33.1	0.6	100	ne.	9	4.0			fg.			0.14	3.6	dense fog	S. W. Rhode.
Mobile, Alabama	29.99	761.7	30.03	762.7	54.6	12.6	92	n.	2	0.9			10 s		n.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.77	756.1	30.01	762.2	54	12.2	100	nw.	6	2.7		2 cs	2k;fg	w.	w.	inap.	inap.	fair	Geo. E. Franklin.
Moorhead, Minnesota	28.45	722.6	29.55	750.6	16	— 8.9	100	s.	28	12.5			10 s		s.	0.08	2.0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.56?	598.4?	30.18?	766.6?	33.5	0.8	86	calm	0	0			10 s		w.	0.19	4.8	cloudy	Edwd. A. Beals.
Nashville, Tennessee	29.33	745.0	29.94	760.5	52.5	11.4	83	w.	10	4.5			10 ks		w.	0.03	0.8	cloudy	L. N. Jesunofsky
New Haven, Connecticut	29.65	753.1	29.77	756.1	38.3	3.5	96	n.	14	6.3			10 s		n.	1.28	32.5	cloudy	J. H. Sherman.
New London, Connecticut	29.70	754.4	29.75	755.6	39.0	3.9	100	n.	3	1.3			10 s		w.	0.29	7.4	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.03	762.7	55.7	13.2	82	w.	3	1.3		0	fg.			0	0	clear	M. Herman.
New York, New York	29.62	752.3	29.81	757.2	44.0	6.7	93	calm	0	0			fg.			1.20	30.5	dense fog	H. J. Peurod.
Norfolk, Virginia	29.83	757.7	29.86	758.4	51.9	11.1	90	nw.	1	0.4			10 n		nw.	0.84	21.3	light rain	Wm. Davis.
North Platte, Nebraska	26.44	671.6	29.54	750.3	29.8	— 1.2	91	se.	10	4.5			10 n		se.	inap.	inap.	light snow	J. J. Mc Lean.
Olympia, Washington Ter	29.58	751 3	29.62	752.3	26.0	— 3.3	88	s.	6	2.7		3 k	0	w.		0.15	3.8	clear	J. Dascomb.
Omaha, Nebraska	28.48	723.4	29.75	755.6	21.6	— 5.8	80	se.	10	4.5			10 s			0.08	2.0	cloudy	A. Pollak
Oswego, New York	29.42	747.3	29.78	756.4	40.0	4.4	84	s.	4	1.8			fg.		s.	0.52	13.2	dense fog	J. G. Linsley.
Palestine, Texas	29.37	746.0	29.95	760.7	51.4	10.8	65	se.	11	4.9		3 cs	2 s	sw.		0	0	fair	P. T. Jenkins.
Pensacola, Florida	30.00	762.0	30.03	762.7	55.9	13.3	96	w.	3	1.3		0	0			0.31	7.9	clear	M. McGauran.
Philadelphia, Pa	29.70	754.4	29.82	757.4	46.5	8.1	88	nw.	3	1.3			fg.			0.75	19.0	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.23	437.6	29.95	760.7	5.0	—15.0	100	sw.	7	3.1			10 n			0.12	3.0	heavy snow	H. Hall.
Pittsburg, Pennsylvania	28.98	736.1	29.84	757.9	49.2	9.6	93	nw.	3	1.3			10 n		w.	0 17	4.3	heavy rain	O. D. Stewart
Poplar River, Montana					— 5.3	—20.7	100	sw.			6		10 n			inap.	inap.	light snow	G. A. Garden.
Port Huron, Michigan	29.15	740.4	29.88	758.9	32.9	0.5	92	ne.	4	1.8			10 s			0.41	10.4	cloudy	M. H. Perry
Portland, Maine	29.75	755.6	29.80	756.9	37.5	3.1	89	ne.	14	6.3			10 n		ne.	0.64	16.3	light rain	W. W. Eichelberger.
Portland, Oregon	29.63	752.6	29.70	754.4	28.8	— 1.8	81	sw.	7	3.1			10 n			0.21	5.3	light snow	M. L. Hearn.
Prescott, Arizona	24.37	619.0	29.73	755.1	36.8	2.7	84	s.	20	8.9			10 n			1.22	31.0	light rain	N. D. Lane.
Provincetown, Mass	29.03	752.6	29.66	753.4	39.9	4.4	100	ne.	14	6.3			10s;fg		ne.	0.62	15.7	cloudy	C. N. Kitchel.
Red Bluff, California	29.54	750.3	29.91	759.7	37	2.8	56	nw.	10	4.5		0	0			0.05	1.3	clear	J. R. Williams.
Rio Grande City, Texas	29.77	756.1	30.02	762.5	56.2	13.4	98	se.	2	0.9		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.09	738.9	29.80	756.9	35	1.7	100	w	12	5.4			fg.			0.33	8.4	dense fog	E. W. McGann.
Roseburg, Oregon	29.28	743.7	29.86	758.4	26	— 3.3	88	sw.	5	2.2		0	4 s		w.	0.43	10.9	fair	J. J. Nanry.
Sacramento, California	29.87	758.7	29.94	760.5	39.0	3.9	73	w.	9	4.0		0	5 s			0.12	3.0	fair	J. A. Barwick
St. Louis, Missouri	29.27	743.4	29.93	760.2	39.5	4.2	89	w.	4	1.8			10 s		w.	0.28	7.1	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.94	760.5	29.98	761.5	— 4	—20.0	81	ne.	4	1.8		0	0			0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	28.82	732.3	29.75	755.6	23.6	— 4.7	93	s.	8	3.6			10s;fg			0.02	0.5	cloudy	P. F Lyons.
St. Vincent, Minnesota	28.64	727.4	29.61	752.1	7	—13.9	85	s.	6	2.7			10 n			0.01	0.3	light snow	C. B. Dilley.
Salt Lake City, Utah	25.08	637.0	29.64	752 8	29.7	— 1.3	77	nw.	7	3.1			10 n			0.08	2.0	light snow	J. Craig.
San Diego, California	29.85	758.2	29.92	760 0	54.8	12.7	75	nw.	20	8.9			10 k		nw.	1.15	29.2	cloudy	F. R. Day.
Sandusky, Ohio	29.13	739.9	29.85	758.2	38	3.3	82	e.	1	0.4			10s;fg			0.53	13.5	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.78	756.4	29 81	757.2	40.0	4.4	89	w.	7	3.1			10 n			0.95	24.1	light rain	Y. P. Chappel.
Sanford, Florida	30.00	762 0	30.05	763.3	64.0	17.8	92	calm	0	0		0	8 ks		s.	0.37	9.4	cloudy	J. B. Marbury
San Francisco, California	29.90	759.4	29.98	761.5	42.5	5.8	70	nw.	10	4.5		1 ck	2 s	nw.	nw.	0.72	18.3	clear	N. Gorom.
Savannah, Georgia	29.91	759.7	30.00	762.0	60	15.6	90	w.	6	2.7			10 s		w.	0.77	19.6	cloudy	R. M. Geddings.
Shaw, Fort, Montana	25.75	654.0	29.60	751.8	—11	—23.9	82	w.	2	0.9		5 k	0			0.03	0.8	fair	A. L. Mathews.
Shreveport, Louisiana	29.73	755.1	29.91	759.7	43.6	6.4	84	se.	4	1.8		2 cs	0			0	0	clear	E. N. Meekins.
Sitka, Alaska	29.62	752.3	29.69	754.1	20	— 6.7	47	ne.	12	5.4		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	29.91	759.7	29.95	760.7	55.0	12.8	100	w.	4	1.8			fg.			0.50	12.7	dense fog	O. Parker.
Spokane Falls, Wash. Ter.	27.40	695.9	29.53	750.0	18.5	— 7.5	76	w.	14	6.3		0	4 s			0.57	14.5	fair	D. Moore.
Springfield, Illinois	29.18	741.2	29.90	759.4	36.5	2.5	87	w.	6	2.7			10 s		nw.	0.32	8.1	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.80	680 7	29.93	760.2	45.0	7.2	45	calm	0	0			10 s			0	0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	29.48	748.8			23.2	— 4.9	71	w.	12	5.4		0	0			0.20	5.1	clear	R. Connor.
Thomas, Camp, Arizona	26.98	685.3	29.81	757.2	34.2	1.2	87	calm			0		10 s			0	0	cloudy	R. O. Lord.
Toledo, Ohio	29.10	739.1	29.84	757.9	37	2.8	89	calm	0	0			10n;fg			0.18	4.6	light rain	A. Buell.
Unalaska, Alaska	29.19	741.4	29.21	741.9	37	2.8	82	e.	14	6.3			10 n			2.00	50.8	light rain	Samuel Applegate
Vicksburg, Mississippi	29.76	755.9	30.03	762.7	46	7.8	77	n.	2	0.9		2 c	0	w.		0	0	clear	C. Dill.
Washington, D. C.	29.72	754.9	29.84	757.9	41.3	5.2	98	se.	2	0.9			10s;fg		sw.	0.63	16.0	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.43	645.9	29.55	750.6	34	1.1	68	s.	4	1.8		7 k	0	s.		0	0	fair	F. H. Brandenburg.
Wilmington, N Carolina	29.89	759.2	29.95	760.7	59.2	15.1	94	w.	5	2.2		2 cs	6ks;s	w.	w.	1.18	30.0	cloudy	L. H. Albrecht.
Yankton, Dakota	28.27	718.0	29.69	754.1	21.2	— 6.0	81	s.	11	4.9			10 s		s.	inap.	inap.	cloudy	E. H. Thompson.
Yuma, Arizona	29.61	752.1	29.76	755.9	51.4	10.8	89	se.	4	1.8		0	9 s		w.	inap.	inap.	cloudy	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.64	752.8	29.66	753.4	33.0	0.6	89	ne.	28	12.5			10 n			inap.	inap.	snowing	George Oberuick.
Bluefields, Nicaragua, C. A.					74	23.3		calm			0	0	8 n		ne.	0.18	4.6	raining	W. H. Jackson.
Bogota, U. S. C.	22.02	559.2			55.4	13.0	81	w.	2	1			8 k		se.	0	0	covered	Joaquin Gomez.
Chimo, Fort, Ungava	30.34	770.6	30.50	774.7	—33	—36.1	100	s.	18	8.0		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.10	764.5	69.7	20.9	80	n.	1	0.4		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	76	24.4	91	e.			1	4 ck	5 k	e.		0.010	0.3		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.33	745.0	29.89	759.2	78	25.6	89	calm			0	6 ck	4 ks	calm	calm	0	0	cloudy	Francisco J. Olsnare s.
Rivas, Nicaragua, C. A.					75	23.9	92	ne.			1	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	30.06	763.5	30.13	765.3	—32.0	—35.6		nw.	12	5.4		1 c	0	nw.		0	0		Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.93	760.3	29.95	760.6	77.7	25.4	87	n.	7.4	3.3		0	7 k		n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.92	760.0	29.99	761.7	71.6	22.0	91	n.			1	0	1 k		n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 50° 07′ W. 24° 30′	29.28	743.7	43	6.1		nw.			7		5?		nw.	4 h'r	4 h'r	high	nw.	cloudy?
S. S. Alvo, Aux Cayes, Hayti, W.I*	30.17	766.3	71	21.7		e.			0-2		4		calm	3 h'r	3 h'r			fine.
S. S. Alleghany, N. 37° 54′ W. 75° —†	29.84	757.9	46	7.8		w.			2		10		s.	rain	rain	short	s.	squally.
S. S. Ailsa, Colon, U. S. C			79.5	26.4	91	nne.			1		5		nne.	o	o	sm'h		fair.
S. S. America, N. 45° —°, W. 44° —′			40	4.4	91	wnw.			6		6		wnw	snow	snow	r'gh	nw.	fair.
S.S. Arizona, N. 51° 11′, W. 18° 49′	29.19	741.4	46	7.8		wsw.			6		5		w.	o	o	high	sw.	fair.
S. S. Alps, Kingston, Jamaica, W.I*†	30.10	764.5	79?	26.1?		calm			0		0			o	o	short		clear.
S. S. Adriatic, N. 49° 18′, W. 29° 00′ †	29.51	749.5				nnw.			6		5		n.			h'vy	n.	squally.
Schr. Annie R. Lewis, N. 32° 20′, W. 78° 28′ †	29.96	761.0	68	20.0		w.			5		6		wnw.	8 h'r	8 h'r	mod.	w.	fair.
S. S. British Crown, N. 45° 21′, W. 35° 37′†	29.93	760.2	41	5.0		nw.			6		5		nw.	4 h'r	4 h'r	high	nw.	squally.
S. S. Circassian, N. 52° 40′ W. 23° 05′	29.10	739.1	36	2.2	80	nnw.			7		8		wnw.			7	nnw.	cloudy.
S. S. Caracas, N. 26° 46′, W. 69° 40′*†	30.21	767.3	76	24.4	88	sse.			3		2		ssw.	¼ h'r	¼ h'r	mod.	se.	fine.
S. S. City of Washington, N. 30° 55′, W. 79° 34′			64	17.8		wnw.			5				nw.	o	o	light	ne.	fine.
S. S. Canada, (Br) N. 46° 37′, W. 31° 28′			39	3.9	91	nnw.			7		10			hail	hail	long	nw.	snowing.
S. S. Chalmette, N. 34° 05′, W. 76° 50′ *†	29.87	758.7	64	17.8		wsw.			5		6		wsw.	3 h'r	3 h'r	long	se.	fair.
S. E. J. Spicer, N. 35° 01′, W. 51° 29′	30.48	774.2	56	13.3	94	se.			3		10		ssw.	rain	rain	cross		cloudy.
S. S. Frisia, N. 42° 25′ W. 59° 00′			32.0	0.0		sw.			4		6		w.	2 h'r	2 h'r	mod	w.	fair.
S. S. Grecian, N. 48° 38′, W. 35° 46′	29.81	757.2	33	0.6	89	nw.			6		9		nw.	8 h'r	8 h'r	high	nw.	snow squalls
S. S. Hohenstaufen, N. 49° 16′, W. 21° 12′	29.12	739.6	41	5.0	91	nnw.			6		6		nnw.	6 h'r	6 h'r	h'vy	wnw.	showery.
S. S. Helvetia, N. 49° 01′ W. 31° 34′	29.58	751.3	35	1.7	100	wnw.			7		9		nw.	snow	snow		nw.	cloudy
Bk. Havana, N. 40° 07′ W. 73° 55′			46	7.8	84	e.			0-2		10		calm	4 h'r	4 h'r	long	se.	hazy.
Bk. Idaho, off Cienfuegos Lt, Cuba. W.I*†	30.13	765.3				ne.			1		10			o	o	sm'h		clear.
Schr. Jennie N. Huddell, N. 35° 50′, W. 75° 10′†	29.89	759.2	54	12.2		nw.			1		10		nw.	rain	rain	long	s.	foggy.
S. S. Lone Star, N. 27° 11′, W. 80° 03′*†	30.12	765.0	72	22.2		s.			2		5		ssw.	o	o	sm'h		fair.
S. S. Mentmore, N. 47° 57′, W. 26° 27′	29.34	745.2				nw.			9		3		nw.	12 h'r	12 h'r	h'vy	nw.	fair.
S. S. Marengo, N. 43° 05′, W. 56° 12′ *†	30.14	765.5	44	6.7		ssw.			6		10			3 h'r	3 h'r	light	s.	raining.
S. S. Neckar, N. 40° 49′, W 63° 08′	29.74	755.4	63.0	17.2	94	var.			2-5		7		var.	rain	rain	mod.	s.	
S. S. Orinoco, Staten Isld, N. Y †	29.82	757.4	48	8.9		ne.			1		10			11 h'r	11 h'r			hazy.
S. S. Ohio, (Am) N. 50° 56′, W 17° 52′*†	29.16	740.7	47	8.3	77	w.			2		9		w.	o	o	r'gh	w.	cloudy.
S. S Pennsylvania, N. 48° 36′, W. 30° 26′ †	29.52	749.8	38	3.3	81	n.			6		6		nnw.	2 h'r	2 h'r	h'vy	nne.	gale.
S. S. Rhynland, N. 46° 19′, W. 42° 20′	29.98	761.5	38	3.3	54	nw.			7		2		nw.	3 h'r	3 h'r	mod.	nw.	clear.
S. S. Sardinian, N. 43° 52′, W. 56° 17′	30.08	764.0	37	2.8		ese.			3		10			4 h'r	4 h'r	sm'h		raining.
S. S. Switzerland, N. 40° 40′, W. 71° 49′ *†	29.71	754.6				nw.			2		10		nnw.	14 h'r	14 h'r	sm'h		dull.
S. S. Samaria, N. 42° 04′, W. 60° 15′	29.88	758.9	56	13.3		sse			6		10			12 h'r	12 h'r	rg'h	sse.	raining.
S. S. Salier, N. 47° 52′, W. 35° 04′†	29.75	755.6				nnw.			7-10		7		nnw.	10 h'r	10 h'r	h'vy	nw.	squally.
S. S. Valencia, Puerto Cabello, Venezuela †	30.02	762.5	78	25.6	86	ene.			5		7		ne.	6 h'r	6 h'r			cloudy.
S.S. Pennland, N. 49° 44′. W. 8° 06′ *	29.31	744.5	51	10.6	95	s.			5		10			4 h'r	4 h'r	mod.	s.	overcast.
Schr Adda Doane, Port Antonio, Jamaica W.†	30.13	765.3				calm			0		2		e.	1 h'r	1 h'r			clear.
Bg, Alcira. N. 18° 40′, W. 74° 30′*	30.18	766.6	80	26.7		nne.			1		1		ne.	o	o	sm'h	n.	hazy.
S. S. Britannic, N. 51° 21′ W. 10° 40′			48	8.9		s.			6		6		s.	3 h'r	3 h'r	mod	s.	d. clouds.
S. S. British Prince, N. 51° 20′, W. 9° 59′ †			49	9.4		s.			7		6		s.			mod.	s.	raining.
S. S. Cienfuegos, Nassau, Bahama, W.I	30.20	767.1	71	21.7		e.			3		1		se.	o	o	small	e.	clear.
Bk. Chas. Stewart, Gibraltar, Mediterranean *†	29.80	756.9				wnw.			2		8		e.	light	light	mod.	s.	cloudy.
Bk. Cato, N. 40° 12′, W. 24° 06′†	29.57	751.1				nw.			6		5		nw.	o	o	h'vy	wsw.	fair.
S. S. Donau, N. 49° 30′, W. 16° 40′	29.10	739.1	50.0	10		nw.			3-4		4		nw.	o	o	high	sw;w	fine.
S. S. Gallia, N. 43° 15′, W. 45° 18′	30.32	770.1	43	6.1		nw.			6		8		n.	o	o	mod.	nw.	fair.
S. S Habsburg, N. 42° 46′, W. 51° 57′	30.20	767.1				ssw.			4		10		sw.	o	o	mod.	sw.	overcast.
S. S. Pavonia, off Bardsey, Eng	29.61	752.1	52	11.1	86	e.			5		8		ne.	3 h'r	3 h'r	mod.	ene.	hazy.
S. S. Rialto, N. 51° 49, E. 1° 43′ †	29.92	760.0	42	5.6		sse.			5				s.	o	o	mod.	sw.	clear.
S. S. Sirius, N. 25° 13′, W. 63° 37′	30.24	768.1				e.			3		1		e.	o	o	mod.	e.	clear.
Bk. Saga, N. 32° 04′, W. 78° 22′ †	29.96	760.9	70	21.1					5-9		7			18¾	hours			squally.
S. S. Vaderland, N. 44° 50′, W. 45° 00′			43	6.1		wnw.			6				nw.	24 h'r	24 h'r	mod.	w.	squally.
S. S. Virginian, N. 41° 39′, W. 48° 00′			48	8.9		nw.			3				nw.	3 h'r	3 h'r	con.		
S. S. Wyoming, N. 42° 55′. W. 48° 23′	30.30	769.6	46	7.8		ssw.			5		6		sw.	o	o	mod.	w.	fair.
S. S. Wieland, N. 40° 50′, W. 69° 30′	29.59	751.6	42	5.6		sw.			2-3		10		wsw.	2 h'r	2 h'r	short	wsw.	foggy.
S. S. Westphalia, Hamburg, Germany	30.27	768.8	36	2.2	100	s.			5		6		sw.	2 h'r	2 h'r			fair.
S. S. St. Laurent, N. 42° 46′, W. 52° 23′			45.5	7.5		ssw.			3		10		nw.	o	o	sm'h	nne.	overcast.
S. S. Crescent City, N. 24° 18′, W. 74° 17′*†	30.16	766.1	74	23.3		ese.			1									fine.
S. S. Reliance, N. 35° 06′ W. 74° 39′			74	23.3		wnw.			7									dense fog.
U. S. Navy Yard, Portsmouth, N.H			37	2.8	90	ne.	25	11.2			10		ne.	1.00	25.4			drizzling.
U. S. S. Alliance, St Thomas, W.I	30.12?	765.0?	74	23.3	81	ne.			2		8		calm	light	light	sm'h		fair
U. S. S. Kearsarge, Naples, Italy	30.09	764.3	49	9.4	64	ne.			5		5							fair.
U. S. S. Lancaster, Naples, Italy	30.10	764.5	50	10.0	100	ne.			4		8			o	o	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	29.68	753.9	38	3.3	100	ne.			2		10					sm'h		rainy.
U. S. S. Portsmouth, Norfolk, Va	29.88	758.9	54	12.2	87	sw.			1		10		s.					overcast.
U. S. S. Quinnebaug, Leghorn, Italy	30.12	765.0	48	8.9	63	e.			3		8		e.			sm'h		fair.
U. S. S. Swatara, Port au Prince, Hayti, W.I.	30.12	765.0	72	22.2	80	ne.			2		0			light	light	sm'h		clear.
U. S. S. Trenton, Naples, Italy	30.09	764.3	49	9.4	64	ne.			6		8							fair.
U. S. S. Vandalia, Curacoa, W. I	30.01	762.2	76	24.4	77	ene.			3		2		e.					fair.
H. M. S. Alexandra, Malta, Mediterranean	29.88	758.9	62	16.7	66	ene.			4		10	ene.				4	ene.	overcast.
H. M. S. Alecto, N. 5° 10, W. 10° 00′	29.87	758.7	76	24.4		var.			1		7	ssw.				3	ssw.	d. clouds.
H. M. S. Boadicea, Monrovia Liberia			80	26.7	100	wsw.			2		2	wsw.				1	wsw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.22	767.6	67	19.4	84	ssw.			4		4	wsw.						d. clouds.
H. M. S. Himalaya, N. 31° 27′, W. 54° 40′			71	21.7	75	ene.			3		9					2	nnw.	d. clouds.
H. M. S. Minotaur, N. 39° 30′. E. 11° 15′	29.94	760.5	55	12.8	71	ene.					9					2	ene.	misty.
H. P. M. S. Donro, St Thomas, Gulf of Guinea	29.86	758.4	89.2	31.8	80	ese.			2		5		se.	o	o	1	se	d. clouds.
S. S. British Princess, N. 41° 33′ W. 47° 10′†	30.31	769.9	41	5.0		sw.			2		8		wsw.	o	o	sm'h	cross	cloudy.
S. S. Lord Clive, N. 39° 10′. W 69° 13′	29.58	751.3				sw.			4		10			7 h'r	7 h'r	mod.	s.	cloudy.
S. S. Prussian, N 53° 03′, W. 18° 26′			49	9.4		ssw.			7		5		sw.	10 h'r	10 h'r		ssw.	fair.
S. S. Scandinavian, Glasgow, Scotland	29.80	756.9	42	5.6		se.			3		10		se.	22 h'r	22 h'r			raining.
S. S. Alpin, N. 29° 35′, W. 68° 16′ *†	30.30	769.6	68	20.0		s.			2		2?		s.	o	o	mod.	s.	cloudy.?
S. S. Dorian, N. 51° 50′, W. 21° 00′			44	6.7		nw.			7		8		n.	8 h'r	8 h'r	h'vy	nw.	cloudy.
S. S. Carroll, Halifax, N.S	30.03?	762.7?	44?	6.7?		calm			0		10			hv'y	hv'y			heavy rain.
S. S. Llandaff City, N. 49° 03′, W. 19° 43′			52	11.1		nw.			6		7			o	o	h'vy	w.	squally.
S. S. Wisconsin, N. 43° 30′, W. 49° 10′			37	2.8		sw.			4		8		w.	2 h'r	2 h'r	mod.	w.	cloudy.
S. S. Bohemia, N. 50° 20′, W. 20° 53′						var.			7-9		10		s;nnw.	6 h'r	6 h'r	h'vy	var.	overcast.
S. S. Rugia, N. 41° 29′, W. 61° 47′	29.84	757.9	61	16.1		s.			6		4		se.	20 h'r	20 h'r	5-6	sse.	heavy rain.
S. S. Rhaetia, N. 49° 40′ W. 22° 36′	29.31?	744.5	40	4.4		wnw			7		7		w.	o	o	h'vy	wnw.	stormy.
S. S. Archimede, (It.) N. 38° 55′, E. 9° 10′			60	15.6		ene.			4		7		ene.	o	o	r'gh	ene.	cloudy.
S. S. Picqua, N. 41° 40′, W. 25° 50′ *†	29.66	753.4	47	8.3	71	wsw.			9				nw.	hail	hail	high	nw.	cloudy.
S. S. Texas, South Pass, Mississippi River	29.99	761.8	55	12.8	100	ese.			1		5?		s.	o	o	sm'h		cloudy?
S. S. Ontario, N. 48° 57′, W. 25° 52′	29.39	746.5	37	2.8		nw.			7		3		nw.	5 h'r	5 h'r	high	nw.	squally.
S. S. Denmark, N. 48° 30′, W. 14° 50′†	29.20	741.7	51	10.6	93	var.			3		9		nw.se	rain	rain	h'vy	var.	cloudy
S. S. England, N. 41° 50′, W. 53° 09′	30.20	767.1				sw.			4		10		sw.	o	o	mod.	s.	overcast.
S. S. Erin, N. 40° 20′, W. 69° 52′			40	4.4		wsw.			4		fg			6 h'r	6 h'r	sli't	sse.	dense fog.
S. S. Leipzig, N. 19° 38′, W. 28° 04′*	30.08	764.0	72.5	22.5	92	ene.			3		7		ene.	o	o	sm'h	ene.	light squall
S. S. Strassburg, N. 42° 25′, W. 10° 41′	29.56	750.8	54.0	12.2	87	sw.			3		10		ssw.	o	o	8	s.	clearing.
S. S. City of Augusta, N. 33° 08′, W. 78° 37′ *†	29.99	761.7				ssw.			6		10		sse.	rain	rain		se.	rainy.
S. S. Muriel, N. 25° 45′, W. 65° 34′	30.29	769.4	70	21.1		ese.			3		0			2 h'r	2 h'r	mod.	e.	clear.
S. S. Waesland, Antwerp, Belgium	29.93	760.2	40	4.4		e.			5		0			o	o			clear.
S. S. Westernland, N. 42° 01′, W. 60° 27′	29.91	759.7	61	16.1	94	ssw.			6		10		ssw.	11 h'r	11 h'r	r'gh.	s.	overcast.
S. S. W. A. Scholten, Rotterdam, Holland			48.2	9.0	93	s.			4		10		ssw.	o	o			
S. S. Zaandam, N 48° 50′, W. 16° 15			54.7	12.6	87	n.			3		10			4 h'r	4 h'r	long	w.	cloudy.
S. S. State of Nebraska, N. 41° 12′, W. 62° 56′	29.76	755.9	59	15.0		s.			6		10		s.			mod.	s.	rainy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. State of Nevada, N. 40° 40′ W. 70° 40′ *†	29.74	755.4	44	6.7		wsw.			2		fg.		wsw.	0	0	light	w.	foggy.
S. S. Celtic, Liverpool, Eng			49	9.4		s.			6		7		ssw.	4 h'r	4 h'r			fine.
S. S. Republic, N. 41° 50′, W. 60° 33 *†	29.91	760.5	59	15.0	94	s.			6		10		sw.	sh'rs	sh'rs	r'gh	ssw.	
S. S. Lepanto, Gibraltar, Mediterranean	29.69	754.1	60	15.6		wsw.			2		6?		nw.	0	0			clear.?
S. S. Romano, Hull, Eng			46	7.8		ssw.			3		2		se.	0	0			clear.
S. S. Salerno, N. 40° 25′, W. 69° 27′			40	4.4		w.			3		10		w.	0.5	13.	mod.	w.	foggy.
S. S. Antonio Lopez, Barcelona, Spain	29.92	760.0	57.5	14.2	85	ene			6	10 c				0	0			squally.
Bgt. Achsah, N. 27° 15′, W. 61° 14′ †	30.29	769.4	72	22.2		ese.			2		5		ese.	0	0	cross	se.	fair.
S. Armenia, N. 51° 30′, W. 21° —′ *	29.01	736.8	44	6.7	76	wnw.			7		10		wnw.	4 h'r	4 h'r	h'vy	nw.	overcast.
Bk. Adelaide, N. 0° 14′, W. 30° 40 *†	29.94	760.5	84	28.9		w.			2		9	s.	ne.	24 h'r	24 h'r	mod.	cross	threatening.
S. S. Bracadalle, N. 40° 42′, W. 54° 20′ *	29.50	749.3	63	17.2		e.			2		10		var.	20 h'r	20 h'r	h'vy	con.	drizzling.
Bk. Benjamin Dickerman, N. 31° 30′, W. 59° 00′			69	20.6		sse.			1		1		sse.	0	0	cross	var.	clear.
S. Cornelius, N. 38° 52′ W. 50° 26′ *†	30.08	764.0	65.8	18.8		ssw.			7		10		sw.; w.	4 h'r	4 h'r	cross	var.	raining.
S. Dora, N. 47° 34′, W. 32° 59′†	29.62	752.3	41.0	5.0		wnw.			4		5		wnw.	12 h'r	12 h'r	long	nw.	squally.
S. David Stewart, N. 13° 14′, W. 61° 52′			75	23.9		ene.			4		3		ene.	0	0	mod.	ene.	clear.
Schr. Edith R. Seward, N. 31° 02′, W. 58° 30′ †	30.30	769.6	72	22.2		s.			1		4		sse.	0	0	long	ne.	clear.
Bk. Fred W. Carlon, Progreso Roads, Mexico†	30.07	763.8	80	26.7		se.			4		0			0	0	sm'h		clear.
Bk. Gloire, N. 28° 50′, W. 71° 13′ *	30.13	765.3	74	23.3		s.			3		3		ssw.	0	0	sm'h		clear.
Bk. Godeffroy, N. 0° 07′, W. 34° 36′	29.90	759.4	77.0	25.0	99	se.			2		10			rain	rain	mod.	ne.	rainy.
Bk. George Davis, N. 39° 29′, W. 42° 40′ *†	30.36	771.1				nnw.			5				n.	light	light	high	nw.	cloudy.
Bk. Galeon, Grimsby Roads, Engt.	29.93	760.2	38	3.3		s.			5		2		s.	0	0			misty.
Bk. Hattie G. McFarland, N. 21° 44′, W. 84° 18′†	30.12	765.0	78	25.6		se.			4		4		se.	0	0	sm'h		fine.
S. Henry, N. 41° 05′, E. 18° 04′ *	30.20	767.1	45.7	7.6		ne.			4		7 k					3-4	nne.	light rain.
Bg. John Wesley, N. 28° 58′, W. 79° 48′						s.			5		8		s.	2 h'r	2 h'r	cross	ne.;s.	cloudy.
Schr. John L. Thomas, South Hobbles Cays, C. A †	30.00	762.0	76	24.4	82	e.			3		1		e.	0	0	mod.	ene.	clear.
Bg. John Welsh, jr., N. 24° 24′, W. 80° 40′ †	30.17	766.3				calm			0				s.			sm'h	se.	
Schr. Joh Bird, Hampton Roads, Va *†	29.85	758.2				s.			1		10		ssw.	0	0			overcast.
S. S. Laurel, Key West, Fla †	30.09	764.3	78	25.6		wsw.			1		3		wsw.	0	0			clear.
Bg. L. F. Munson, N. 26° 02′, W. 68° 25′			74	23.3		se.			4		1		se.	0	0	mod.	se.	clear.
S. S. Madrid, N. 54 42′, W. 0° 50′ †	29.91	759.7	42	5.6	86	se.			8		3		sse.	0	0	r'gh	se.	fair.
Schr. Minnie A. Bonsall, Brunswick, Ga *†	30.01	762.2	68?	20.0?		nw.			1					8 h'r	8 h'r	light		cloudy.
Schr. Maggie Abbott, N. 31° 30′, W. 73° 09′ *†	30.03	762.7				wsw.			6		0			0	0	sm'h	s.	clear.
Schr. Norena, Ponce, Porto Rico, W. I						ne.			1		3		ene.	0	0			fine.
Bk. Orpheus, N. 51° 03′, W. 23° 52′ *	29.14	740.1	45	7.2		wnw.			8		8 k		wnw.			long	wnw.	hailing.
S. S. Radnorshire, N. 43° 40′, W. 9° 12′ *†	29.50	719.3				ssw.			6		10		ssw.	2 h'r	2 h'r	h'vy	ssw.	threatening.
Bk. Sunbeam, N. 39° 58′, W. 65° 02′			65	18.3	89	sw.			8		10		sw.	8 h'r	8 h'r	h'vy	sw.	cloudy.
Bgt. Sunlight, N. 31° 07′, W. 60° 32′ †	30.29	769.4				s.			2		4		s.	3 h'r	3 h'r	mod.	ne.	fair.
S. St. David, N. 15° 54′, W. 39° 50′			75.3	24.1	72	nne.			3		7		nne.	½ h'r	½ h'r	long	nne.	cloudy.
S. Stephen D. Horton, Antwerp, Belgium						ene.			4		2		ene.	0	0			clear.
Bk. Silica, N. 49° 50′, W. 4° 27′ *	29.70	754.4				sse.			5		10		ssw	sh'rs	sh'rs	long	ssw.	hazy.
S. Vincenzo Accame, N. 37° 25′, W. 54° 30′			60.8	16.0		sse.			5		8		sse.	0	0	r'gh	var.	
S. S. Maasdam, N. 41° 20′, W. 52° 45′ *	30.14	765.5	59.0	15.0		ssw.			6							high	w.	squally.
S. S. Strathleven, N. 49° 03′, W. 19° 43′ *	29.13	739.9	47.8	8.8	71	w.			5		6		w.			7	w.	squally.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.99	761.7	73	22.8	76	nnw.			2		2		nw.					clear.
H. M. S. Amethyst, Montevideo, Uruguay	29.90	759.4	73	22.8	78	n.			2		0							blue sky.
H. M. S. Opal, Simons Bay, Cape Colony	30.00	762.0	74	23.3	68	se.			1		0							blue sky.
H. P. M. S. Tejo, S. 6° 03′, E. 12° 17′	30.04	763.0	83.3	28.5	92	sw.			2		7		ne.	0	0			d. clouds.
H. P. M. S. Rainha de Portugal, Banana, Guinea	29.82	757.5	81.7	27.6	77	wnw.			2		4			0	0	1		d. clouds.
H. P. M. S. Bengo, S. 3° 26′, E. 1° 34′			82.4	28.0	92	ssw.			2		7		sw.	0	0	3	sw.	d. clouds.
S. S. Hevelius, S. 14° 05′, W. 34° 01′ *†	30.08	761.0	82	27.8		sse.			3		3		se.	0	0			clear.
S. S. Rosse, S. 0° 35′, W. 30° 13′	29.83	757.7	80.5	26.9	80	sse.			3		9		sse.	2 h'r	2 h'r	long	n.	cloudy.
Bk. Celestina, S. 19° 35′, W. 35° 33′ *†	30.01	762.2				ne.			3		2			0	0	long	ssw.	clear.
S. S. George S. Homer, S. 26° 26′, W. 31° 58′ *†	30.08	764.0				calm			0		3		ne.	0	0	sm'h	n.	fine.
S. Grecian, S. 36° 20′, W. 32° 13′ †	30.16	766.1	64	17.8	73	sse.			1		2	nw.	se.	0	0	mod.	sw.	fine.
S. Henry Failing, S. 31° 11′, W. 24° 30′ *†	30.14	765.5	73	22.8	95	e.			2		8		nne.	3 h'r	3 h'r	sm'h		fair.
Bk. Horace Scudder, Congo river, Guinea *†	30.00	762.0	88	31.1		w.			3		2		w.	0	0			hazy
Bkt. Levanter, Montevideo, Uruguay *	29.97	761.2	72	22.2		n.			2		0			0	0	sm'h		clear.
Bk. Winifred, S. 12° 39′, W. 34° 12′ *†	29.95	760.7												0	0		e.	
S. Orealla, S. 38° 54′, W. 5° 40′ *	30.01	762.2				n.			3		1		n.	12 h'r	12 h'r	sm'h		foggy.
District No. 3—North Pacific.																		
U. S. S. Alert, Nagaski, Japan	30.39	771.9	44	6.7	68	ne.			1		0					mod.	w.	clear.
U. S. S. Essex, Canton, China	30.13	765.3	67	19.4	89	ese.			1		10							overcast.
U. S. S. Hartford, N. 17° 32′, W. 141° 58′	30.03	762.7	74	23.3	76	e.			4		8		n.	0	0	sm'h	n;e.	cloudy.
U. S. S. Juniata, Nagasaki, Japan	30.41	772.4	43	6.1	83	ene.			1		0			0	0			clear.
U. S. S. Monocacy, Ningpo, China	30.29	769.4	51	10.6	79	se.			2		10		se.					cloudy.
U. S. S. Palos, Tientsin, China	30.29	769.4	30	— 1.1		calm			0		0							clear.
H.M.S. Audacious, Victoria harbor, Hong Kong, China	30.11	764.8	64	17.8	94	ene.			2-4		10	e.						drizzling.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.11	764.8	63	17.2	86	s.			1		10					1		overcast.
H. M. S. Champion, Shanghai, China	30.35	770.9	51	10.6	86	e.			2		10	calm						overcast.
H. M. S. Flying Fish, N. 24° 26′, E. 118° 04′			58	14.4	90	calm			0		8							misty.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.93	760.2	84.5	29.2	74	wsw.			1		2	sse.						blue sky.
H. P. M. S. Tamega, Macao, China	30.10	764.4	66.2	19.0	81	calm			0		10			0	0			overcast.
S. S. Newbern, Guaymas, Mexico			62	16.7	61	w.			3		0			0	0	sm'h		clear.
S. S. Oceanic, N. 40° 10′, W. 135° 13′	30.02	762.5	50	10.0	79	ssw.			3		7		s.sw.	0	0	4	w.	fair.
S. S. Columbia, N. 38° 48′, W. 123° 37′ *†	29.89	759.2	46	7.8	58	nw.			4		4		nw.			mod.	w.	fair.
S. S. Oregon, Portland, Oregon†	29.70	754.4	29	— 1.7	66	calm			0		10		w.					cloudy.
S. S. Alameda, N. 32° 17′, W. 134° 19′†	30.18	766.6	59	15.0		nw.			2		1		nw.	0	0	mod.	nw.	fine.
S. S. Ancon, San Pedro, Cal.	29.78?	756.4?	54	12.2	74	wsw.			6		0			0	0			clear.
S. S. City of Chester, San Francisco, Cal †	29.98	761.5	42	5.6	38	nw.			2		0							
S. S. Queen of the Pacific, N. 46° —′, W. 124° 46′	29.60	751.8	35	1.7	90	w.			8		7		w.	20 h'r	20 h'r	chop	w.	fair.
S. S. State of California, San Francisco, Cal†	30.00	762.0	41	5.0	100	nw.			3		0							clear.
S. S. Eureka, N. 52° 05′, W. 128° 09′ *†	29.75	755.6	10	—12.2	79	nw.			3		0			0	0	sm'h		clear.
S. S. Australia, N. 21° 18′, W. 157° 51′	30.18	766.6	75	23.9	95	e.			4		3		e.	0	0	mod.	e.	clear.
S. S. City of Sydney, N. 37° 33′, W. 122° 48′ *†	29.93	760.2	46	7.8	84	w.			4		6 k		wnw.			h'vy	w	fair.
S. S. Colima, N. 12° 24′, W. 88° 13′†	30.04	763.0	78	25.6	78	ese.			3		0			0	0	mod.	ese.	clear.
S. S. Granada, N. 33° 41′, W. 118° 30′†	29.80	750.9	55	12.8	62	w.			6		0			3 h'r	3 h'r	large	w.	clear.
S. S. San Blas, N. 15° 02′, W. 92° 58′			77	25.0	91	nw.			3		1		w.	0	0	sm'h	w.	clear.
S. S. San Jose, N. 27° 40′, W. 115° 22′ *†	30.09	764.3	60	15.0		wsw.			4		5		w.	10 h'r	10 h'r	mod.	wsw.	fair.
S. S. Benalder, Kobe, Japan			42	5.6	58	nw.			2-3		7			0	0			fair.
S. St. Francis, N. 20° 00′, W. 124° 45′			68	20.0	65	nne.			4		0		nw.	0	0	h'vy	nw.	fair.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, Callao, Peru *	29.98	761.5	71	21.7	100	se.			2		10		calm			sm'h		overcast.
H. M. S. Espiegle, S. 46° 36′, E. 168° 22′	29.90	759.4	54	12.2	87	wsw.			6		9							squally.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.14	765.5	64.3	17.9	73	ssw.			1		4					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	30.19	766.8	58	14.4	88	calm			0		8							d. clouds.
S. S. Zealandia, Sydney N. S. W	30.00	762.0	80	20.7	87	e.			4		2		e	0	0			clear.
S. Ismir, S. 51° 37′, W. 83° 40′ *†	28.79	731.3				nnw.			3		10		nnw.	7 h'r	7 h'r	h'vy	var.	rainy.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.93	760.2	62	16.7		n			2		8	n.						
H. M. S. Sylvia, off Sandy Point, Patagonia	29.74	755.4	44.5	6.9	84	nnw.			2		9					4	n.	d. clouds.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.97	761.2	73	22.8	67	ne.			2		0							blue sky.
H. M. S. Tourmaline, Mananhar, Madagascar	29.99	761.7	80	26.7	82	s.			1		2							d. clouds.

International Chart I. February 18, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 19, 1884,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.82	757.5	65.5	18.6	71	s.			2		0			inap.	inap.		Roziere.
Algiers			29.80	757.0	59.7	15.4	87	ene.			3		10			0.441	11.2		Thève.
La Calle			29.87	758.7	59.7	15.4	85	ene.			5		4			0	0		Fonfrède.
Tunis			29.92	760.0	57.2	14.0	63	n.			3		3			0	0		Delord.
Geriville					51.8	11.0	75	nw.			2		4			0	0		Forfert.
Laghouat			29.90	759.5	63.3	17.4	88	s.			1		3			0	0		Abraham.
Biskra			29.86	758.5	59.7	15.4	87	calm			0		0			0	0		Gouzon.
Australian.																			
Adelaide, South Australia			29.84	757.9	73.5	23.1	68	calm	0	0			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.78	756.4	29.97	761.2	61	16.1	78	s.	5	2.2			2		s.	0	0	fine	Com. J. Shortt, R.N.
Melbourne, Victoria	29.77	756.1	29.86	758.4	66.9	19.4	83	s.	4	1.8			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.82	757.3	30.40	772.1	36.1	2.3	35	s.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.54	750.4	30.35	770.9	34.9	1.6	75	ene.	6.9	3.1			0			0	0		Dr. Wierzbiski
Eperies	29.41	747.0	30.33	770.3	39.6	4.2	58	calm			0		0			0	0		Julius Mikolik.
Gratz	29.08	738.5	30.40	772.2	32.0	0.0	61	sw.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.85	732.8	30.35	771.0	34.9	1.6	59	s.			2		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.77	730.7	30.15	765.9	39.9	4.4	55	calm			0		0			0	0	clear	The Staff.
Lemberg	29.34	745.1	30.39	771.8	29.5	—1.4	80	ne.			2		10			0	0		Dr. T. Stanecki.
Pola	30.19	766.7	30.30	769.6	42.4	5.8	58	wnw.			3		0			0	0		I. R. Hydrographic Office.
Szathmar	29.84	757.8	30.32	770.2	35.6	2.0	61	s.			2		0			0	0		Joseph Midliuszky, S. J
Szegedin	30.06	763.6	30.36	771.1	38.7	3.7	45	calm			0		0			0	0		Karl Stancel.
Trieste	30.24	768.0	30.34	770.5	45.1	7.3	46	sw.			2		0			0	0		Royal Academy.
Vienna	29.60	751.9	30.35	770.9	38.1	3.4	47	se.			2		0			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.59	726.1	30.00	762.1	44.1	6.7	82	s.			1		1			0.138	3.5		
Brussels	29.71	754.6	29.91	759.7	49.6	9.8	74	wsw.			2		10			0.047	1.2		
Furnes	29.83	757.6	29.85	758.1	49.6	9.8	81	s.			0–1		8			0.043	1.1		
Maeseyck	29.82	757.4	29.95	760.6	52.2	11.2	72	s.			2		7			0.020	0.5		
British.																			
Aberdeen	29.71	754.6	29.81	757.2	41.0	5.0	78	se.	22	9.8			9			0.390	9.9	overcast	W. Boswell.
Bidston, Liverpool Obs'y			29.65	753.1	40.0	4.4	92	ese.	22	9.8			10					overcast	John Hartnup.
Bolton, Sharples	29.14	740.1	29.68	753.9	38.4	3.6	90	ese.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.33	745.0	29.73	755.1	37.3	2.9	94	se.			2		10			0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.01	762.2	30.04	763.0	82	27.8	57	e.			3		6					overcast	Corp'l C. McGregor, A.H.C
Cardington					44.0	6.7	96	se.			0–4		10					overcast	John McLaren.
Chatham, School M. E.	29.60	751.8	29.77	756.1	48.7	9.3	87	sw.			3		10			blank	blank	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.38	746.2	29.61	752.1	49.8	9.9	93	s.			3		10					overcast	The Staff.
Fort Napier, Natal	27.59	700.8	29.90	759.4	84.2	29.0	67	ne.			1		2					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.35	745.5	29.39	746.5	48	8.9	92	se.			1		9			0.02	0.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.95	760.7	30.05	763.3	57.0	13.9	94	nw.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.58	751.3	29.75	755.6	48.8	9.3	85	ssw.					10					overcast	The Staff.
Guernsey	29.40	746.7	29.70	754.4	48.0	8.9	92	ssw.			1		10			blank	blank	overcast	A. Collenette, F.R.M.S.
Kew, Observatory	29.72	754.9	29.75	755.6	48.2	9.0	85	e.	16	7.2			10					drizzling	The Staff.
Leicester, Museum	29.46	748.3	29.72	754.9	41.5	5.3	96	se.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	55.4	13.0	91	se.			3		9			0	0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.18	766.6	73.0	22.8	82	s.			1		4					a. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.48	748.8	29.71	754.6	47.8	8.8	89	se.			2		10					showery	The Staff.
Plymouth	29.55	750.6	29.62	752.3	48.0	9.4	98	s.			2		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.63	752.6	29.73	755.1	40.9	4.9	82						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.20	767.1	30.27	768.8	34.4	1.3	81	nne.			1		10			blank	blank	misty	W. H. Lyne.
Sheffield	29.46	748.3	29.74	755.4	37.9	3.3	95	calm			0		10					drizzling	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss					46.9	8.3	94	s.			1.0		10					raining	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.39	746.5	29.41	747.0	46.9	8.3	85	sw.	13	5.8			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.61	752.1	30.00	762.0	55.4	13.0	79	e.	21.1	9.4			10 n		e.	0.22	5.6	drizzling	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.38	771.6	30.42	772.7	—13.0	—25.0		calm	0	0		0	2 n			0	0	d clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.22	767.6	30.27	768.8	5	—15.0	95	ne.	10	4.5		0	0			0.018	0.5	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.33	770.4	30.40	772.1	— 2	—18.9	100	ne.	5	2.2		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.88	758.9	30.08	764.0	25.7	— 3.5	100	ne.			1		10 n			0.052	1.3	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.37	771.4	30.42	772.7	—10.5	—23.6		w			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.32	770.1	30.34	770.6	5	—15.0	76	calm	0	0		2 cs	2 s	calm	calm	inap.	inap	fair	J. McWilliams
Fort Garry, Manitoba*	29.04	737.6	30.02	762.5	—21	—29.4	100	w.	22	9.8		0	0			0.35	8.9	clear	James Stewart.
Fredericton, N. B.	30.33	770.4	30.40	772.1	4.1	—15.5	72	ne.	4	1.8		0	0			inap.	inap.	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	30.23	767.8	30.28	769.1	13	—10.6	83	ne.	24	10.7		0	5 ks		ne.	0.02	0.5	fair	J. Chipman Seeley
Granton, Ontario	28.74	730.0	29.87	758.7	35.0	1.7	100	se.	9	4.0			fg.			0	0	dense fog	Jas. Grant.
Halifax, N. S*	30.03	762.7	30.17	766.3	13	—10.6	91	n.	12	5.4		5 k	0		n.	0.343	8.7	fair	A. Allison.
Hamilton, Ontario	29.38	746.2	29.80	756.9	33.5	0.8	99	calm			0		10 n			0	0	misty	Geo. Dickson, B. A.
Kingston, Ontario*	29.73	755.1	30.08	764.0	33	0.6	88	calm	0	0			10 ks		calm	0.09	2.3	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.15	765.8	30.20	767.1	19.0	— 7.2	100	nw.	6	2.7		8 cs	0			0	0	fair	C. H. Rigby.
London, Ontario	28.95	735.3	29.88	758.9	36.3	2.4	100	calm			0		10 ks			0.15	3.8	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.68	703.1	30.49	774.4	—38	—38.9	100	n.	0	0		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T.	27.83	706.9	30.10	764.5	—26	—32.2	100	nw.	30	13.4		5 cs	0		nw.	0.30	7.6	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.92	760.0	30.14	765.5	23	— 5.0	100	ne.	3	1.3			10 n			0.21	5.3	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.84	757.9	30.07	763.8	29.3	— 1.5	93	ese.					10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.17	740.9	29.89	759.2	34	1.1	89	se.	15	6.7			10 n		se.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.24	742.7	30.01	762.2	31.7	— 0.2	86	sw.			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	28.71	729.2	29.43	747.5	30	— 1.1	88	calm	0	0			10 n			0.13	3.3	light snow	W. P. Cooke.
Port Dover, Ontario	29.21	741.9	29.92	760.0	36	2.2	100	calm	0	0			10 cs			inap.	inap.	cloudy	H. Morgan.
Port Stanley, Ontario	29.23	742.4	29.89	759.2	36	2.2	100	e.	20	8.9			10 n		se.	0	0	cloudy	M. Pavne.
Qu Appelle, N. W. T	27.64	702.0	30.34	770.6	—28	—33.3		nw.	10	4.5		0	0			0.10	2.5	clear	Leslie Gordon.
Quebec, Quebec*	29.85	758.2	30.23	767.8	19	— 7.2	87	ne.	16	7.2		10 ck	0		w.	0	0	cloudy	Capt. Asse, R. N.
Rockliffe, Ontario*	29.46	748.3	29.93	760.2	34	1.1	79	se.	12	5.4			10 s		se.	inap	inap.	threatening	W. H. McIntyre.
St. Andrews, N. B.	30.23	767.8	30.28	769.1	10	—12.2	81	n.	10	4.5		0	0			0.33	8.4	clear	
St. John, N. B	30.06	763.5	30.21	767.3	7.5	—13.6	87	n.	12	5.4		0	0			0.425	10.8	blue sky	G. Hutchinson.
St. Pierre, N. F.			30.12	765.0	10.4	—12.0		n.			3								The Commartant.
Saugeen, Ontario*	29.05	737.9	29.78	756.4	37	2.8	89	se.	36	16.1			10 s			0	0	cloudy	
Stratford, Ontario	28.56	725.4	29.87	758.7	34.0	1.1	88	ne.	1	0.4			10 s			0	0	foggy	W. McBride, M.A.
Sydney, C. B*	30.12	765.0	30.19	766.8	12	— 7.8	83	ne.	16	7.2			10 n			0.12	3.0	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
Toronto, Ontario*	29.56	750.8	29.96	761.0	34	1.1	100	e.	16	7.2			fg			0	0	dense fog	Magnetic Observatory.
Woodstock, Ontario	28.85	732.8	29.95	760.7	34.0	1.1	95	e.	12	5.4			10 s			0	0	foggy	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.11	764.8	30.18	766.6	21	— 6.1	76	ne.	7	3.1			10 s		ne.	0.78	19.8	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.06	763.5	30.09	764.3	72.0	22.2	90	sw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.93	760.2			77.0	25.0	56	nw.				0	2 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			88	31.1	41									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.89	759.3	29.97	761.2	61.2	16.2	87	n.			5	0						clear	Samuel Redolez.
Iquique	29.91	759.6	29.93	760.3	68.2	20.1	85	sw.			3							cloudy	Rafael Moreno.
Niebla	29.49	749.0	29.60	751.7	61.2	16.2	85	nw.			1		4		nw.	0.622	15.8	cloudy	Federico Köhling.
Punta Caldera	29.92	760.0	30.01	762.2	66.2	19.0	83	se.			1	10 c		se.				cloudy	Manuel Tobar.
Punta Corona	29.65	753.2	29.84	757.9				n.			4		5 n		ne.	0.984	25.0	cloudy	Francisco Alvarado.
Valparaiso	29.81	757.2	29.95	760.7	62.2	16.8	79	sw.			0	0	0					clear	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.34	770.6	30.36	771.2	42.3	5.7	89	nne.	3.8	1.7			3			0.508	12.9		M. Marc Dechevrens, S. J'
Danish.																			
Copenhagen	30.10	764.4	30.14	765.6	36.5	2.5	77	se.	18	8.			0						Oversergent Fischer.
Fanöe	29.97	761.1	29.98	761.6	35.1	1.7	84	se.			6		1						Overloerer Lauridsen.
Godthaab, Greenland	29.01	737.7	29.09	738.8	0.5	—17.5	95	ese.			2		10					snowing	S. Kleinschmidt.
Ivigtut, Gree land	29.08	738.7	29.10	739.2	— 3.5	—19.7		calm			0		8						
Jacobshavn, Greenland	29.13	739.9	29.18	741.1	— 2.6	—19.4		calm			0		7						
Stykkisholm, Iceland	29.32	744.7	29.36	745.8	33.4	0.8	90	sw.			4		10					snowing	A. O. Thorlacius.
Thorshavn	29.67	753.5	29.69	754.1	43.3	6.3	79	se.	18	8			10						Overloerer Borgh.
Upernavik, Greenland	29.45	748.0	29.50	749.2	— 2.4	—19.1		ne.			2		10						
Vestervig	29.95	760.7	30.04	763.0	35.6	2.0	64	e.			6		0						Loerer Oesterhol.
Egyptian.																			
Cairo	29.90	759.5			64.4	18.0		e.	9.4	4.2		0	2 s			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.34	745.1	29.98	761.5	53.2	11.8	78	sse.			6		6	se.	se.	0.16	4.		M. Labroue, Director.
Alençon, Normal School	29.30	744.3	29.85	758.3	49.3	9.6	89	s.			1		10 n			0.12	3.	covered.	M. Nicot, Director.
Arras, Normal School	29.50	749.3			49.6	9.8	74	w.			1		5		sw.	0.161	4.1	cloudy	M. Ungerer, Director.
Avignon, Normal School	30.14	765.6	30.22	767.6	51.8	11.	39	ese.			1		5		s.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.43	747.6	29.99	761.8	53.1	11.7	58	sse.			2		5			0.087	2.2	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.65	753.0	29.91	759.8	48.4	9.1	73	sse.			1		10		ssw.	0.370	9.4	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.15	740.3	30.02	762.4	55.4	13	77	ne.			2		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.60	751.9	29.86	758.5	54.1	12.3	68	se.			4		10			0.071	1.8	covered	M. Rayet, Director.
Bourges, Normal School	29.35	745.4	29.89	759.2	56.5	13.6	53	se.			1		cs		se.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.50	748.3	29.74	755.5	49.6	9.8	97	sw.			2		10		sw.	3.563	90.5	raining	M. de Kermarrée, Dir.
Caen, Normal School	29.74	755.5	29.82	757.4	51.8	11.	90	sse.			1		10			0.020	0.5	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.69	754.2	30.02	762.4	49.5	9.7	97	sse.			1		2			0.185	4.7	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.45	748.1	29.97	761.3	50.9	10.5	63	s.			1		2		s.	0.157	4.0	¼ covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.60	726.5	29.95	760.8	54.3	12.4	41	se.			2		2			0	0		M. Alluard, Director.
Cluny, Normal School	29.15	740.4	30.00	762.1	51.8	11.	46	se.			4		5		se.	0	0	cloudy	M. de Villemontée, Dir.
Commercy, Normal School	29.12	739.6	30.00	762.1	47.5	8.6	62	s.			4	c	2 k	s.	s.	0.024	0.6	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.62	701.5	30.22	767.5	42.1	5.6	46	s.			1		7 n			0	0		M. Jarach, Director.
Grésasque, du Rhone	29.06	738.1	30.22	767.5	46.9	8.3	44	se.			4		9		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.33	744.9	30.11	764.7	50.0	10.	54	nw.			1	ck				0	0		M. Abiard, Director.
Guéret, Normal School	28.33	719.5	29.89	759.3	52.2	11.2	54	sw.			6		cn		sw.	0	0		M. Delorme, Dir.
Lescar, Normal School	29.28	743.6	29.84	757.8	62.8	17.1	53	se.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.63	752.7	29.74	755.3	50.4	10.2	84	s.			2		10		s.	0.315	8.0	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.97	735.8	30.04	763.0	48.2	9.0	44	s.			8	5 c				0	0	fair	M. André, Director.
Mans, Normal School	29.50	749.4	29.82	757.3	49.5	9.7		s			4		10			0.035	0.9	raining	M. Richard, Director.
Marseille, Observatory	29.91	759.8	30.19	766.8	59.7	15.4	84	ese.			2		10		sw.	0	0		M. Stephan, Director.
Montlouis	24.79	629.6	29.63	752.6	40.6	4.8	69	w.	28.0	12.5			6	nw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.06	763.6	30.17	766.4	46.4	8	89	sse.			8		10		se.	0.295	7.5	raining	M. Galzin, Director.
Nancy, Normal School	29.24	742.7	30.03	762.8	49.3	9.6	58	s.			1	c				0.055	1.4		M. Hasse, Director.
Nantes, Observatory	29.64	752.9	29.80	757.0	52.9	11.6	73	sse.			1–4		10 n; kn		ssw.	0.020	0.5		M. Larocque, Director.
Perpignan, Observatory	30.01	762.3	30.13	765.2	49.3	9.6	85	se.	15.0	6.7			10		se.	0.008	0.2		Dr. Fines, Director.
Pic-du-Midi, Summit	21.05	534.8			26.2	— 3.2		sw.			4		8	ne.	sw.	0.039	1.0	very cloudy	M. Vaussenat, Director.
Privas, Normal School	29.09	738.9	30.19	766.8	44.6	7	57	s.			1		n	s.	s.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.07	636.7			38.8	3.8	68	s.			2		2			0	0	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.82	757.3	29.85	758.1	52.2	11.2	73	sse.			6		10			2.05	52.	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.63	752.5	29.84	758.0	51.4	10.8	82	se.			4					0.007	1.7		M. Brotier, Director.
Rodez, Normal School	27.86	707.6	30.05	763.3	42.8	6		nw.			8		10 n		nw.	0	0	covered.	M. Seger, Director.
Rouen, Normal School	29.83	757.7	29.88	758.9	46.8	8.2	94	se.			1		10	se.		0.224	5.7	covered	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.77	756.2	29.94	760.4	49.6	9.8	62	sse.			1		8		sw.	0.114	2.9	covered	M. Renou, Director.
Toulouse, Observatory	29.21	742.0	29.93	760.3	51.4	10.8	72	sse.			8		5	se.		0	0	cloudy	M. Baillaud, Director.
Tours	29.69	754.0	29.87	758.6	53.6	12.0	67	ese.			1		10		sw.	0.008	0.2	raining	M. de Tastes.
Versailles, Observatory	29.42	747.3	29.91	759.8	47.8	8.8	71	s.			2		5			0	0	cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.70	754.3	29.85	758.1	61.3	16.3	50	s.	15.7	7.0			9 k		s.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.65	727.8	30.14	765.5	44.4	6.9	39	calm			0		1			0	0		Prof. Jnedt.
Bamberg	29.28	743.8	30.13	765.3	43.5	6.4	40	calm			0	2 cs				0	0		Prof. Dr. Hoh.
Berlin	30.02	762.4	30.17	766.2	44.6	7.0	34	s.			2		0			0	0		Meteorological Institute
Breslau	29.76	756.0	30.30	769.6	40.1	4.5	56	se.			2		0			0	0		Royal University Obs'y
Carlsruhe	29.63	752.5	30.09	764.3	47.8	8.8	64	calm			0		10	sw.		0	0		Albert Senz.
Cassel	29.35	745.5	30.06	763.6	43.5	6.4	59	s.			2		7	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.71	754.7	30.09	764.3	44.1	6.7	54	se.			1		8			0	0		Physical Society.
Friedrichshafen	28.67	728.2	30.14	765.5	38.8	3.8	73	sw.			1		1	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.97	761.2	30.06	763.5	36.7	2.6	74	se.			3		9			0	0		E. Prefler.
Kiel	30.04	763.0	30.06	763.4	37.0	2.8	64	ese.			2		8			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.73	755.2	30.17	766.3	39.6	4.2	52	sse.			2		0			0	0		H. Leppig, Asst.
Magdeburg	29.92	760.0	30.12	765.0	43.5	6.4	38	sse.			3		0			0	0		Weather Observatory.
Memel	30.34	770.6	30.39	771.8	32.5	0.3	94	wnw.			3		10						Issermann.
Munich	28.28	718.2	30.15	765.7	44.4	6.9	27	e.			1		1	se.		0	0		Central Station.
Neufahrwasser	30.32	770.2	30.34	770.6	31.6	— 0.2	87	se.			2		3			0	0		A. Lothes.
Neustadt, Palatinate	29.53	750.0	30.06	763.4	43.0	6.1	74	e.			2		9			0	0		Prof. Dicknether.
Stuttgart	29.13	740.0	30.04	763.1	48.2	9.0	48	n.			2		0			0	0		Prof. Dr. Schoder.
Wustrow	30.08	764.1	30.11	764.8	38.7	3.7	47	se.			3		0			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.81	757.2	30.21	767.4	40.6	4.8		ne.			2.0		10			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.02	762.6	30.08	764.0	63.8	17.7	85	ene.	21.0	9.4			5			0.33	8.4	d. clouds	
Deesa	29.55	750.5	30.03	762.7	79.1	26.2	33	wnw.	3.0	1.3			10	wnw.	wnw.	0	0	overcast	
Bombay	30.02	762.6	30.06	763.5	78.9	26.1	69	nw.	9.0	4.0			8	wnw.		0	0	d. clouds	
Poona, Yarrowda	28.15	715.0	30.01	762.1	81.9	27.7	41	w.	21.0	9.4			8			0	0	d. clouds	
Belgaum	27.47	697.7	30.00	762.1	79.6	26.4	45	wsw.	8.0	3.6			7	s.	n	0.02	0.5	misty	
Lahore	29.36	745.8	30.14	765.5	64.2	17.9	60	n.	2.0	0.9			10			0	0	overcast	
Roorkee	29.17	740.8	30.10	764.6	64.8	18.2	40	calm	0.5	0.2			10	w.		0	0	overcast	
Agra	29.54	750.4	30.13	765.2	71.7	22.1	33	w.	2.0	0.9			10		w.	0	0	overcast	
Nagpur	28.97	735.8	30.01	762.2	83.9	28.8	25	sse.	4.0	1.8			3	w.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.67	728.2	30.03	762.8	80.9	27.2	30	ne.	4.0	1.8			7	w.		0	0	d. clouds	
Lucknow	29.68	753.9	30.07	763.7	70.2	21.1	39	wnw.	11.0	4.9			7	w.				raining.	
Allahabad	29.74	755.3	30.05	763.3	77.3	25.2	41	nnw.	2.0	0.9			9		nw.	0	0	overcast	
Patna	29.85	758.1	30.04	762.9	74.3	23.5	37	nw.	2.8	1.2			0			0	0	blue sky	
Hazaribagh	28.01	711.5	30.06	763.5	71.4	21.9	26	nw.	6.0	2.7			1			0	0	d. clouds	
Cuttack	29.94	760.6	30.03	762.7	82.0	27.8	41	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	30.02	762.4	30.04	762.9	75.5	24.2	41	calm	0	0			1			0	0	d. clouds	
Dhubri	29.95	760.8	30.08	763.9	70.0	21.1	57	n.	3.2	1.4			0			0.20	5.1	blue sky	
Chittagong	29.98	761.4	30.07	763.7	72.4	22.4	78	sw.	2.6	1.2			0			0	0	blue sky	
Sibsagar	29.77	756.1	30.12	765.2	59.9	15.5	85	ne.	4.0	1.8			0			0.01	0.3	blue sky	
Jeypore	28.63	727.2	30.13	765.2	66.0	18.9	57	ne.	8.0	3.6			10		ne.	0	0	overcast	
Zanzibar	29.89	759.1	29.91	759.7	84.6	29.2	76	calm	2.8	1.2			6		ese.	0	0	d. clouds	
Bellary	28.50	723.9			86.5	31.4	23	se.	4	1.8			0			0	0	blue sky	
Trichinopoly	29.76	755.9			87.4	30.8	35	ene.	0.2	0.1			2			0	0	d. clouds	
ITALIAN.																			
Udine	29.89	759.2	30.32	770.0	46.8	8.2	20	n.	0.7	0.3			0			0	0		Prof. Giovanni Olodig.
Milan	29.84	757.9	30.38	771.6	38.8	3.8	56	nw.	3.8	1.7			1			0	0		Prof. G. V. Schiapparelli
Padua	30.23	767.8	30.34	770.7	39.6	4.2	34	nnw.	2.5	1.1			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.42	747.2	30.36	771.1	39.6	4.2	66	sw.	1.8	0.8			2		n.	0	0		Prof. F. F. Denza.
Genoa	30.10	764.5	30.30	769.5	44.2	6.8	33	n.	9.8	4.4			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.30	769.7	30.35	771.0	38.7	3.7	60	nw.	15.0	6.7			0			0	0		Prof. Luigi Guidi.
Florence	30.02	762.4	30.28	769.1	43.5	6.4	45	ne.			4		0			0	0		Prof. Costantino Pittei.
Leghorn	30.11	764.9	30.19	766.7	44.8	7.1	39	ne.	11.2	5.0			0			0	0		Prof. P. Monte.
Rome	30.01	762.3	30.19	766.8	50.4	10.2	24	ene.	1.8	0.8			1			0	0		Prof. P. Tacchini.
Lecce	29.93	760.1	30.19	766.7	46.4	8.0	41	nne.	15.0	6.7			2			0	0		Prof. C. de Giorgi.
Cosenza	29.28	743.6	30.19	766.9	40.3	4.6	68	wnw.	3.1	1.4			10		nw.	0.087	2.2		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.81	757.2	30.07	763.7	54.5	12.5	73	ne.	10.5	4.7			10		ne.	0.579	14.7		Prof. G. Caccialore
Syracuse	30.00	762.1	30.05	763.2	52.2	11.2	73	ese.	30.4	13.6			10		ese.	0.689	17.5		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.64	752.9	30.18	766.6	48.2	9.0	57	ne.	9.8	4.4			6		n.	0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.02	762.6	30.05	763.3	31.1	— 0.5	83	nw.			4		10ks;n		w.	0.028	0.7	cloudy	H. Hattori.
Awomori	29.98	761.5	30.02	762.5	29.0	— 1.7	87	s.	11.6	5.2			10 n			0.027	0.7	snowing	K. Ogawa.
Hakodate	30.00	762.0	30.01	762.3	26.0	— 3.3	64	nne.	6.0	2.7			0	3 ks	nw.	0	0	clear	Y. Souma.
Hamamatsu	30.10	764.5	30.20	767.0	39.9	4.4	64	w			4		0	0		0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.33	770.3	30.34	770.7	37.2	2.9	86	ne.	3.2	1.4			0	0		0	0	clear	Y. Okamoto.
Kagoshima	30.32	770.0	30.33	770.3	47.7	8.7	63	calm			0		10 s			0	0	overcast	
Kanazawa	30.18	766.6	30.29	769.3	38.9	3.8	70	w.	9.1	4.0			10ks;s			0.142	3.6	overcast	S. Endo.
Kioto	30.11	764.9	30.29	769.3	39.1	3.9	76	sw.	2.4	1.1			10s;ck			0	0	cloudy	M. Tojima.
Kochi	30.27	768.8	30.29	769.3	44.1	6.7	77	ne.	2.8	1.2			0	6 s		0	0	fair	K. Kusunose.
Miasaka	30.31	769.8	30.33	770.5	45.1	7.3	73	nne.			1			10 s	w.	0	0	cloudy	K. Masusaki.
Miyako	29.90	759.5	30.01	762.3	25.3	— 3.7	69	w.	2.2	1.0			0	0		0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.15	765.8	30.36	771.1	45.5	7.5	60	ne.	2.4	1.1			0	7 s		0	0	cloudy	
Nemuro	29.85	758.2	29.90	759.5	20.0	— 6.7	68	n.	3.0	1.3			1 k	0		0	0	clear	A Shibuya.
Niigata	30.11	764.8	30.15	765.8	37.0	2.8	75	nw.	10.1	4.5			0	5ks;s	nw.	0.170	4.3	½ cloudy	Satoo & Tomikawa.
Nobiru	30.02	762.6	30.04	763.0	31.8	— 0.1	78	nw.	2.1	0.9				10 ks		0.025	0.6	covered	Yoshino & Midzushina.
Numadzu	30.07	763.8	30.11	764.7	33.1	0.6	78	ne.			2		0			0	0	clear	T. Ohgi.
Osaka	30.28	769.1	30.30	769.5	37.1	2.8	89	nw.	2.2	1.0			0	8 s		0	0	cloudy	H. Omura.
Sakai	30.33	770.3	30.34	770.5	42.8	6.0	66	wnw.			2		0	3 ks	wnw.	0	0	fair	Yamawchi & Sakamoto.
Sapporo	29.90	759.5	29.97	761.2	27.8	— 2.3	100	nw.	7.9	3.5				10 n		0.035	0.9	snowing	S. Kimura.
Shimonoseki	30.21	767.4	30.36	771.1	42.9	6.1	72	calm	0	0			0	0		0	0	clear	S. Sakano.
Wakayama	30.24	768.1	30.30	769.5	37.3	2.9	72	ne.	0.4	0.2			0	0		0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.84	757.9	30.03	762.7	80.0	26.7	76	e.	12.5	5.6			7c;cs	3k;ks		ene.	0.68	17.3	overcast	The Staff.
MEXICAN.																			
Leon	24.37	619.0	30.22	767.6	45.7	7.6	61	nnw.	0.9	0.4			0	0		0	0	clear	M. Leal & M. Pina
Mazatlan	29.80	758.4	30.12	765.1	64.0	17.8	73	e.	0.9	0.4			2 cs	0	sw.	0	0	light fog	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.87	758.6	29.87	758.6	47.8	8.8		s.			4					0.094	2.4		
Groningen	29.94	760.4	29.99	761.8	36.3	2.4		s.								0.039	1.0		
Helder	29.87	758.8	29.87	758.8	36.9	2.7		se.			2					0.008	0.2		
Hellevoetsluis	29.87	758.7	29.87	758.7	45.3	7.4	80	sw.			2					0.067	1.7		
Utrecht	29.87	758.7	29.93	760.1	43.9	6.6	89	sse.			2		7			0.091	2.3	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.91	759.6			78.4	25.8	92	nnw.	0	0			10			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.98	761.4	30.04	763.0	34.2	1.2	65	calm	0	0			0			0	0		
Brono	30.05	763.6	30.10	764.6	33.4	0.8	85	calm			0		0			0	0		
Christiania	30.08	764.0	30.24	768.0	26.8	— 2.9	78	nw.	7	3			10			0	0		
Gjæsvær	29.89	759.2	29.91	759.8	33.4	0.8		calm			0		10			0.197	5.0		
Lodingen	30.04	763.1	30.09	764.3	35.1	1.7	80	calm			0		8			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.11	764.8	30.20	767.0	60.8	16.0	50	sw.	2.5	1.1			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.62	752.4	29.96	761.0	52.5	11.4	57	wsw.	23.7	10.6			4			0.374	9.5		The Staff.
Ponta Delgada, Azores	30.13	765.2	30.20	767.0	55.4	13.0	55	w.	7.4	3.3			4			0.091	2.3		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	29.97	761.2	30.00	762.1	68.7	20.4	75	ne.			3		8			0.126	3.2	foggy	
San Salvador, Congo	28.05	712.5	29.89	759.2	75.4	24.1	90	sw.			1		10			0	0		
Serra da Estrella	25.07	636.8	29.97	761.1	30.2	— 1.0	100	wsw.	17.4	7.8			10			0.520	13.2	snow & fog	
RUSSIAN.																			
Akmolinski	28.58	725.8	29.70	754.4	24.3	— 4.3	100	s.	13	6			10 n			0.106	2.7		Major K. Lasarew.
Archangel	29.63	752.6	29.65	753.1	25.2	— 3.8	89	n.	4	2			10			0.047	1.2		Capt. Sselliwerstow
Ashurada	30.10	764.5	30.00	762.1	45.0	7.2	89	wsw.	27	12			10 n			0.390	9.9		
Astrakhan	30.13	765.4	30.06	763.4	26.2	— 3.2	63	nw.	7	3			10 s			0.004	0.1	light clouds	Capt. Wisganow.
Baku	30.16	766.1	30.11	764.9	34.9	1.6	91	n.	9	4			9 kn			0.028	0.7		
Barnaul	29.68	753.9	30.22	767.6	18.7	— 7.4	64	calm	0	0			10			0	0		Meteorological Office.
Bielosersk	29.38	746.3	29.87	758.7	27.9	— 2.3	88	wnw.	13	6			10 s			blank	blank		
Dorpat	29.92	760.0	30.18	766.5	29.5	— 1.4	86	wnw.	7	3			10 n			0	0		Observatory.
Ekaterinburg	28.55	725.1	29.58	751.4	7.3	—13.7	90	wsw.	4	2			10			0.079	2.0	snowing	Meteorological Obs'y
Elissawetgrad	29.80	758.5	30.34	770.7	29.1	— 1.6	72	wnw.	9	4			9 ks			0	0		
Kasan	29.45	748.1	29.74	755.5	15.1	— 9.4	84	sw.	4	2			10			0	0		Observatory.
Kem	29.80	757.0	29.85	758.3	32.2	0.1	74	nw.	13	6			10			blank	blank	h'vy clouds	
Kertch	30.25	768.3	30.27	768.9	29.5	— 1.4		n.	4	2			0	7 k		blank	blank		Lagorio & Sastyres.
Kieff	29.59	751.5	30.26	768.6	30.7	— 0.7	64	wnw.	9	4				10 n		blank	blank		Observatory.
Koslov	29.42	747.2	29.95	760.8	20.3	— 6.5	83	wsw.	13	6				10 s		0.012	0.3		
Lgov	29.57	751.1	30.19	766.9	27.5	— 2.5	83	wnw.	13	6				10		0.004	0.1	light snow	R. I. Ssaweljew, Engin'r.
Libau	30.30	769.7	30.33	770.3	32.0	0.0	79	w.	7	3				10		0	0		[illegible]
Lugan	29.93	760.1	30.15	765.7	23.7	— 4.6	56	wsw.	13	6				10		0	0		Meteorological Obs'y
Moscow	29.47	748.5	29.97	761.3	28.6	— 1.9	80	nw.	7	3				10 n		0.059	1.5		Meteorological Obs'y
Nertschinsk	28.13	714.5	30.69	779.5	2.8	—16.2	84	calm	0	0				6		0	0		
Nikolaiev	30.27	768.9	30.34	770.7	31.5	— 0.3	72	nne.	9	4				10 n		blank	blank	light clouds	Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	30.14	765 5	30.22	767.7	7.2	—13.8	87	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.25	768 3	30.39	771.9	31.1	— 0.5	81	sw.	2.2	1.0	.....	0	2 k	.....	.....	.....	.....	.....	Siang.
Petro-Alexandrovsk	29.52	749.8	29.89	759.2	31.5	— 0.3	76	nw.	7.8	3.5	.....	.....	10	.....	.....	.....	.....	.....	Walter.
Petrozavodsk	29.69	754.2	29.90	759.4	29.8	— 1.2	71	wnw.	16	7	.....	0	8 ks	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.85	758.1	30.38	771.6	26.6	— 3.0	94	nw.	13	6	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.12	765.1	30.15	765.9	38.8	3.8	75	nw.	9	4.0	.....	.....	10 n	.....	.....	0.071	1.8	rain & snow	
St. Petersburg	30.09	764.2	30.11	764.8	20.5	— 6.4	95	wnw.	11	5	.....	.....	10 n	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.39	695 7	29.82	757.3	60.1	15.6	33	calm	0	0	.....	1 ck	0	.....	.....	.....	.....	.....	Dresch.
Semipalatinsk	29.48	748.9	30.19	766.9	19.6	— 6.9	84	se.	20	9	.....	.....	10	.....	.....	0	0	.....	Major Lasarew
Sevastopol	30.06	763.6	30.29	769.3	31.5	— 0.3	58	ne.	20	9	.....	.....	9 n	.....	.....	0	0	.....	
Staroi Bykhov	29.65	753.0	30.24	768.0	27.9	— 2.3	87	w.	13	6	.....	.....	10	.....	.....	0	0	.....	Carl Hagen.
Tashkend, Laboratory	28.23	717.0	29.91	759.6	50.9	10.5	45	ne.	9	4	.....	.....	9 k	.....	.....	.....	.....	.....	Terca, A. M.
Tiflis	28.60	726.3	30.08	763.9	35.2	1.8	59	nw.	31	14	.....	.....	9 k	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.36	695.0	29.99	761.7	26.2	— 3.2	69	calm	0	0	.....	0	3	.....	.....	.....	.....	.....	Sariono.
Viatka	29.04	737.5	29.71	754.7	9.7	—12.4	71	calm	0	0	.....	.....	7	.....	.....	0	0	.....	
Vladivostock	30.24	768.1	30.31	769 8	16.7	— 8.5	60	ne.	34	15	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.95	760 8	30.41	772.3	29.3	— 1.5	82	ssw.	2	1	.....	0	4 ks	.....	.....	.....	.....	.....	Astronomical Obs'y.
Yeniseisk	30.13	765 4	30.46	773.6	4.8	—15.1	81	calm	0	0	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.32	744 7	29.85	758.2	27.6	— 2.4	77	wnw.	12.4	5.5	.....	.....	10	.....	w.	0.02	0.5	cloudy	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.98	761.4	30.09	764.2	54.3	12.4	88	se.	.....	.....	.....	.....	10 kn	.....	.....	1.110	28.2	covered	B.J.Elin.
Bilbao, Met. Obs'y	29.76	756.0	29.82	757.5	57.7	14.3	77	sw.	10.3	4.6	.....	.....	10	.....	.....	0 016	0.4	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.93	684 0	29.97	761.2	43.0	6.1	83	sw.	16.1	7.2	.....	.....	10	.....	.....	0.370	9.4	covered	Domingo Martin.
Madrid, Royal Obs'y	27.69	703.4	29.96	760.9	47.8	8.8	86	s.	18.8	8.4	.....	.....	10	.....	.....	0.256	6.5	covered	The Staff.
Murcia, Met. Obs'y	29.85	758.2	29.98	761.6	59.7	15.4	85	e.	4.3	1.9	.....	2	5	sw.	.....	0.008	0.2	misty	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.84	732.5	29.74	755.4	46.6	8.1	87	s.	9.8	4.4	.....	.....	10	.....	.....	0.795	20.2	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.03	762.7	30.10	764.4	69.7	20.9	90	ese.	1.6	0.7	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.00	762.1	30.06	763.5	75.2	24.0	82	ese.	11.1	5.0	.....	0	8	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	761.0	30.06	763.5	54.9	12.7	90	calm	0	0	.....	.....	10	.....	s.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.14?	765.5?	30.23?	767.8?	75.2	24.0	83	.....	.....	.....	.....	2 c	5 kn	w.	se.	0.024	0.6	raining	Enrique Gaden, Chf Eng
SWEDISH.																			
Haparanda	30.07	763.8	30.11	764 8	19.0	— 7.2	100	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	
Umea	30.12	765.1	30.17	766.4	16.5	— 8.6	88	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	
Hernosand	30.10	764.6	30.15	765.9	16.2	— 8.8	88	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Stockholm	30.04	763.1	30.22	767.6	26.1	— 3.3	89	w.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Wisby	30.19	766 7	30.24	768.2	29.8	— 1.2	92	w.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.10	764 5	30.19	766.7	24.4	— 4.2	96	wsw.	9.0	4.2	.....	.....	10	.....	.....	0	0	.....	H.H.Hildebrandesson
SWISS.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.31	769.8	35.2	1.8	72	ne.	2	1.0	.....	.....	10	.....	n.	0	0	foggy	The Observatory.
Valona	.....	.....	30.16	766.1	54.5	12.5	.....	ne.	.....	.....	2	.....	2	.....	.....	0	0	¼ covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.08	763.9	55.0	12.8	59	w.	.....	.....	1	c	6 n	.....	w.	0.284	7.2	.....	F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.10	764.5	30.19	766.8	40	4.4	82	sw.	5	2.2	.....	.....	10 s	.....	.....	0.18	4.6	cloudy	J. O. Barnes.
Alpena, Michigan	29.00	736.0	29.71	754.6	31.8	— 0.1	100	se.	10	4.5	.....	.....	10 ;fg	.....	.....	0.02	0.5	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	30.23	767.8	26.0	— 3.3	78	ne.	3	1.3	.....	0	0	.....	.....	0.37	9.4	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.17	690.1	30.21	767.3	—27.0	—32.8	100	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Newman.
Atlanta, Georgia	28.82	732.0	30.04	763.0	50.8	10.4	73	s.	12	5.4	.....	2 k	0	sw.	.....	0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.12	765.0	30.14	765.5	41.0	5.0	92	ne.	2	0.9	.....	10 k	0	ne.	.....	0.02	0.5	cloudy	B.A.Blundon.
Augusta, Georgia	29.91	759.7	30.11	764.8	49	9.4	93	calm	0	0	.....	4 c	fg.	.....	.....	inap.	inap.	fair	W.J.Evans.
Baltimore, Maryland	30.12	765.0	30.16	766.1	43	6.1	83	nw.	2	0.9	.....	.....	fg.	.....	.....	0	0	foggy	Geo. W Feiger.
Barnegat City, New Jersey	30.17	766.3	30.19	766 8	40.0	4.4	93	e.	9	4.0	.....	.....	10 ks	.....	.....	0.02	0.5	cloudy	F.L.Johnson.
Bennett, Fort, Dakota	28.47	723 1	30.20	767.1	— 6.6	—21.4	84	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.20	693.4	30.30	769.6	—28.6	—33.7	.....	calm	0	0	.....	.....	10 s	.....	nw.	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.17	715.5	30.15	765.8	—17.0	—27.2	100	nw.	20	8.9	.....	0	0	.....	.....	0.07	1.8	clear	B. O. Lenoir.
Block Island, Rhode Island	30.17	766.3	30.20	767.1	34.5	1.4	89	ne.	21	9.4	.....	.....	10s;ks	.....	ne.	0.02	0.5	cloudy	J. T. Elker.
Boise City, Idaho	27.20	690.9	30.16	766.1	28.8	— 1.8	96	se.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	James Kenealy.
Boston, Massachusetts	30.06	763.5	30.22	767.6	31.0	— 0.6	88	ne.	15	6.7	.....	.....	10 s	.....	n.	0.15	3.8	cloudy	O. B. Cole.
Brownsville, Texas	29.76	755.9	29.82	757.4	64.0	17.8	93	s.	6	2.7	.....	10 cs	0	.....	.....	0	0	cloudy	John McGlone.
Buffalo, New York	29.20	741.7	29.99	761.7	36.5	2.5	91	e.	3	1.3	.....	0	2 s	.....	e.	0.03	0.8	clear	Wm. Finn.
Buford, Fort, Dakota	28.00	711.2	30.21	767.3	— 2.5	—19.2	85	w.	3	1.3	.....	0	0	.....	.....	0.01	0.3	clear	A. Schneider.
Cairo, Illinois	29.29	744 0	29.71	754.6	53.2	11.8	74	s.	12	5.4	.....	.....	10 ks	.....	s.	0	0	threatening	W. H. Ray.
Canby, Fort, Washington Ter	29.42	747 3	29.62	752.3	33.4	0.8	84	ne.	39	17.4	.....	.....	10 k	.....	n.	0.49	12.4	cloudy	J.H.Young.
Cape Henry, Virginia	30.11	764.8	30.13	765.3	45.0	7.2	93	w.	2	0.9	.....	0	0	.....	.....	0.31	7.9	clear	A. K. Alderson.
Cape May, New Jersey	30.17	766.3	30.20	767.1	42.0	5.6	92	e.	12	5.4	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	W.E.Smith.
Cape Mendocino, California	29.27	743.4	29.97	761.2	43.2	6.2	100	se.	.....	.....	10	.....	10 s	.....	se.	0.04	1.0	threatening	A. P. Leavitt.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	68.0	20.0	99	s.	12	5.4	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	G. W. Davis.
Charleston, S. Carolina	30.03	762.7	30.09	764.3	64.0	17.8	95	sw.	1	0.4	.....	0	4 s;fg	.....	.....	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.10	764.5	49.8	9.9	94	sw.	5	2.2	.....	2 c	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.11	739.4	29.97	761 2	46.0	7.8	83	e.	5	2.2	.....	0	7 ks	.....	w.	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	23.81	604.8	30.08	764.0	9.7	—12.4	60	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	28.72	729.5	29.47	748.5	45.2	7.3	75	s.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.14	765.5	30.16	766.1	42.0	5.6	100	e.	5	2.2	.....	.....	fg.	.....	.....	0.04	1.0	dense fog	C. F. Dickens
Cincinnati, Ohio	29.14	740.1	29.83	757.7	50.7	10.4	75	se.	5	2.2	.....	5 cs	0	.....	.....	0	0	fair	L. Dunne.
Cleveland, Ohio	29.18	741.2	29.90	761.0	45.0	7.2	83	s.	15	6.7	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	W. Line.
Columbus, Ohio	28.98	736.1	29.88	758.9	48.7	9.3	73	e.	8	3.6	.....	3 ck	3 s	e.	e.	0.01	0.3	fair	F.T. Williams
Concho, Fort, Texas	28.06	712.7	30.08	764 0	48.1	8.9	46	nw.	20	8.9	.....	0	0	.....	.....	0	0	clear	C. E. King.
Custer, Fort, Montana	26.72	678.7	30.08	764.0	— 7	—21.7	82	n.	8	3.6	.....	0	8 ks	.....	.....	0.13	3.3	cloudy	W.J.Daily.
Davenport, Iowa	28.78	731.0	29.48	748.8	45.3	7.4	82	s.	5	2.2	.....	.....	10 n	.....	sw.	0.04	1.0	light rain	R. R. Martin.
Davis, Fort, Texas	25.30	642.6	30.26	768.6	43.5	6.4	66	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.14	714.7	29.96	761.0	30	— 1.1	88	sw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	H.S.Blandford.
Deadwood, Dakota	25.16	639.1	30.08	764.0	11.2	—11.6	72	sw.	4	1.8	.....	0	0	.....	.....	0.06	1.5	clear	G.Kingsbury.
Delaware Breakwater, Del.	30.15	765.8	30.17	766.3	40.0	4.4	100	e.	6	2.7	.....	.....	fg.	.....	.....	0.07	1.8	dense fog	G.A.Martin.
Denver, Colorado	24.64	625.8	30.16	766.1	21.2	— 6.0	62	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.79	731.3	29.76	755.9	8.2	—13.2	61	n.	19	8.5	.....	.....	10 n	.....	n.	inap.	inap.	light snow	F. W. Conrad.
Detroit, Michigan	29.06	738.1	29.81	757.2	50.0	10.0	86	se.	10	4.5	.....	4 ck	0	se.	.....	0.06	1.5	fair	N.B.Conger.
Dodge City, Kansas	27.34	694.4	30.08	764.0	26	— 3.3	67	nw.	26	11.6	.....	0	0	.....	.....	0	0	clear	J.E.Lanouette.
Dubuque, Iowa	28.74	730.0	29.50	749.3	39.8	4.3	84	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	28.79	731.3	29.60	751.8	14.0	—10.0	89	nw.	23	10.3	.....	.....	10 n	.....	.....	0.19	4.8	heavy snow	E.R.Brace.
Eastport, Maine	30.20	767.1	30.27	768.8	9.8	—12.3	83	n.	16	7.2	.....	0	0	.....	.....	0.25	6.3	clear	D. O. Murray.
Elliott, Fort, Texas	27.18	690.4	30.08	764.0	28.8	— 1.8	64	n.	28	12.5	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.36	669.5	30.24	768.1	43.0	6.1	50	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.16	740 7	29.93	760.2	43.5	6.4	93	se.	16	7.2	.....	8 cs	0	nw.	.....	0.01	0.3	cloudy	C. A. Shaw.
Escanaba, Michigan	28.81	731.8	29.53	750 0	34.8	1.6	89	s.	7	3.1	.....	.....	10n;fg	.....	.....	0.12	3.0	light rain	L.M.Pindell.
Fort Smith, Arkansas	29.03	737.3	29.53	750.0	56.0	13.3	51	w.	12	5.4	.....	0	0	.....	.....	0.06	1.5	clear	J. B. Campbell.
Galveston, Texas	29.78	756.4	29.92	757 4	65.0	18.3	90	w.	14	6.3	.....	0	1 s	.....	sw.	0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	28.89	733.8	29.60	751.8	45.0	7.2	76	se.	14	6.3	.....	.....	10 s	.....	se.	0.03	0.8	threatening	Joseph E. Muelle
Grant, Fort, Arizona	25 32	643.1	30.18	766.6	33.4	0.8	73	e.	4	1.8	.....	0	0	.....	.....	0.38	9.7	clear	Chas. A. Read.
Hatteras North Carolina	30.13	765.3	30.14	765.5	55.0	12.8	90	w.	2	0.9	.....	0	0	.....	.....	0.05	1.3	clear	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.59	650.0	29.94	760.5	11	—11.7	80	calm	0	0		0	0			0	0	clear	S. W. Morrison.
Huron, Dakota	28.61	726.7	30.13	765.3	— 7.8	—22.1	63	nw.	28	12.5		0	0			0.02	0.5	clear	S. W. Glenn.
Indianapolis, Indiana	28.88	733.5	29.73	755.1	47.3	8.5	74	s.	10	4.5		4 ck	3 s	sw.	s.	0	0	fair	C. F. R. Wappenhans.
Indianola, Texas	29.85	758.2	29.88	758.9	61.3	16.3	90	nw.	4	1.8		0	2 s			0	0	clear	I. A. Reed.
Jacksonville Florida	30.04	763.0	30.09	764.3	62.5	16.9	96	se.	2	0.9		0	fg.			inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	28.78	731.0	29.48	748.8	42.5	5.8	87	calm	0	0			10 ks		s.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.10	764.5	30.12	765.0	73.5	23.1	83	se.	6	2.7		0	1 k		se.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.11	764.8	30.13	765.3	49.4	9.7	91	nw.	4	1.8		0	0			0	0	clear	Wesley Blake.
Knoxville, Tennessee	28.92	734.6	30.00	762.0	42.6	5.9	97	e.	4	1.8		0	fg.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	28.70	729.0	29.54	750.3	33	0.6	78	nw.	12	5.4			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.78	731.0	29.73	755.1	13	—10.6	70	nw.	26	11.6			10 n			0.01	0.3	light snow	T. S. Outram.
Lewiston, Idaho	29.08	738.6	29.95	760.7	27.0	— 2.8	82	se.	2	0.9			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.21	741.9	29.54	750.3	69.0	15.0	87	s.	6	2.7		10 k	0	s.		0	0	cloudy	W. U. Simons.
Los Angeles, California	29.81	757.2	30.21	767.3	43.8	6.6	80	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.28	741.2	29.77	756.1	50.7	10.4	75	se.	10	4.5		9 cs	0	sw.		0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.38	746.2	30.10	764.5	41.0	5.0	88	calm	0	0		0	2s; fg			0	0	clear	Jno. Healy.
Mackinaw City, Michigan	28.93	734.8	29.63	752.6	38.2	3.4	89	e.	9	4.0			10 s			0.13	3.3	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.13	765.3	30.14	765.5	54.2	12.3	96	w.	5	2.2		5 c	0			0	0	fair	William Daly.
Maginnis, Fort, Montana	25.33	643.4	30.08	764.0	—11.5	—24.2	54	n.	6	2.7		10 k	0			0	0	cloudy	F. Burke.
Marquette, Michigan	28.73	729.7	29.51	749.5	36.0	2.2	89	s.	6	2.7			10 s			0.01	0.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.29	744.0	29.64	752.8	57.0	13.9	74	se.	10	4.5			10 s		se.	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	28.75	730.2	29.55	750.6	40.9	4.9	83	s.	11	4.9		0	9 s		s.	0.01	0.3	cloudy	S. W. Rhode.
Mobile, Alabama	29.85	758.2	29.89	759.2	64.6	18.1	97	s.	11	4.9			10 s		s.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.70	754.4	29.94	760.5	59	15.0	96	se	5	2.2			10s; fg		se.	inap.	inap.	dense fog	Geo. E. Franklin.
Moorhead, Minnesota	28.95	735.3	30.05	763.3	—15.1	—26.2	100	nw.	28	12.5			10 s		nw.	0.21	5.3	cloudy	H. Bessant.
Mt. Washington, N. H.	23.75	603.2	30.37	771.4	28.0	— 2.2	94	se.	2	0.9		0	0			0.39	9.9	clear	Edwd. A. Beals.
Nashville, Tennessee	29.20	741.7	29.81	757.2	54.0	12.2	66	se.	7	3.1		4 cs	3 k	sw.	s.	inap.	inap.	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.21	767.3	35	1.7	89	ne.	9	4.0			10 s		ne.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.13	765.3	30.18	766.6	36.0	2.2	85	ne.	5	2.2			10 ks		ne.	0.02	0.5	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.80	756.9	29.86	758.4	68.0	20.0	92	sw.	12	5.4			10ks; fg		sw.	inap.	inap.	cloudy	M. Herman.
New York, New York	30.01	762.2	30.20	767.1	38.7	3.7	100	e.	11	4.9			10n; fg			0.04	1.0	light rain	H. J. Peurod.
Norfolk, Virginia	30.08	764.0	30.11	764.8	46.6	8.1	93	calm	0	0			fg.			inap.	inap.	dense fog	Wm. Davis.
North Platte, Nebraska	27.01	686.0	30.11	761.8	10.1	—12.2	83	nw.	7	3.1		0	0			inap.	inap.	clear	J. J. Mc Lean.
Olympia, Washington Ter	29.61	752.1	29.65	753.1	32.0	0.0	88	n.	6	2.7			10 n			0.05	1.3	heavy snow	J. Dascomb.
Omaha, Nebraska	28.67	728.2	29.94	760.5	3.0	—16.1	77	n.	20	8.9			10 s			0.02	0.5	cloudy	A. Pollak
Oswego, New York	29.72	754.9	30.07	763.8	30.0	3.9	77	s.	11	4.9			10 s			0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.24	742.7	29.82	757.4	58.5	14.7	59	sw.	15	6.7		0	0			0	0	clear	P. T. Jenkins.
Pensacola, Florida	29.90	759.4	29.93	760.2	67.1	19.5	99	se.	10	4.5			10 s		s.	0.05	1.3	cloudy	M. McGauran.
Philadelphia, Pa	30.06	763.5	30.17	766.3	47.1	8.4	95	e	5	2.2			fg.			0.05	1.3	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.27	438.6	29.99	761.7	— 8.5	—22.5	86	nw.	60	26.8		0	0			0.08	2.0	clear	H. Hall.
Pittsburg, Pennsylvania	29.14	740.1	30.00	762.0	44.8	7.1	83	ne.	3	1.3			fg.			0.19	4.8	dense fog	O. D. Stewart.
Poplar River, Montana					—34.3	—36.8	87	w.			1	0	0			inap.	inap.	clear	G. A. Garden.
Port Huron, Michigan	29.11	739.6	29.84	757.9	40.0	4.4	89	se.	12	5.4			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	30.22	767.6	30.26	768.6	28.0	— 2.2	77	ne.	12	5.4		4 c	4 s	ne.	nw.	0.22	5.6	cloudy	W. W. Eichelberger.
Portland, Oregon	29.64	752.8	29.71	754.6	34.0	1.1	88	calm	0	0			10 n			0.20	5.1	light snow	M. L. Hearne.
Prescott, Arizona	24.86	631.4	30.22	767.6	23.5	— 4.7	82	sw.	2	0.9		0	0			0.32	8.1	clear	N. D. Lane.
Provincetown, Mass	30.18	766.6	30.22	767.6	32.1	0.1	89	ne.	12	5.4			10 n		ne.	0.30	7.6	light snow	C. N. Kitchel.
Red Bluff, California	29.88	758.9	30.25	768.3	41	5.0	82	s.	6	2.7			10 ks		s.	0	0	cloudy	J. R. Williams.
Rio Grande City, Texas	29.70	754.4	29.95	760.7	58.0	14.4	85	n.	4	1.8		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.33	745.0	30.04	763.0	36	2.2	89	se.	12	5.4		5 c	fg.	w.		0	0	fair	E. W. McGann.
Roseburg, Oregon	29.26	743.2	29.83	757.7	43.7	0.5	91	s.	12	5.4			10 s		w.	0.20	5.1	threatening	J. J. Naury.
Sacramento, California	30.20	767.1	30.28	769.1	42.5	5.8	83	se.	6	2.7		0	7 s		sw.	0	0	fair	J. A. Barwick
St. Louis, Missouri	28.86	733.0	29.52	749.8	50.0	10.0	88	se.	13	5.8			10 ks		w.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.92	760.0	29.95	760.7	2	—16.7	85	n.	14	6.3		0	0			0	0	clear	Fred. H. Clarke
St. Paul, Minnesota	28.78	731.0	29.71	754.6	10.5	—11.9	54	nw.	17	7.6			10 s		nw.	0.01	0.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.07	738.4	30.04	763.0	—20	—28.9	78	nw.	11	4.9		0	0			0.03	0.8	clear	C. B. Dilley.
Salt Lake City, Utah	25.77	654.5	30.03	762.7	15.8	— 9.0	48	calm	0	0		0	0			0.08	2.0	clear	J. Craig.
San Diego, California	30.09	764.3	30.16	766.1	45.4	7.4	81	ne.	8	3.6		0	0			0	0	clear	F. R. Day.
Sandusky, Ohio	29.10	739.1	29.82	757.4	47	8.3	77	s.	5	2.2		10 cs	0	s.		0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.19	766.8	30.22	767.6	37.7	3.2	89	e.	19	8.5			10 s			inap.	inap.	cloudy	V. P. Chappel.
Sanford, Florida	30.05	763.3	30.10	764.5	66.5	19.2	93	s.	1	0.4		0	8 k		s.	0	0	cloudy	J. B. Marbury
San Francisco, California	30.20	767.1	30.28	769.1	44.0	6.7	85	s.	3	1.3		4 cs	2 s	w.	w.	0	0	fair	N. Gorom.
Savannah, Georgia	30.00	762.0	30.09	764.3	60	15.6	87	s	5	2.2		1 c	fg.	w.		0	0.	clear	R. M. Geddings.
Shaw, Fort, Montana	26.27	667.2	30.12	765.0	—19	—28.3	72	calm	0	0		0	7 s			0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.45	748.0	29.63	752.6	63.5	17.5	82	sw.	11	4.9		6 k	0	sw.		0	0	fair	E. N. Meekins.
Sitka, Alaska	29.78	756.4	29.85	758.2	24	— 4.4	73	e.	24	10.7			10 n		e.	0.03	0.8	light snow	F. W. Fickett.
Smithville North Carolina	30.08	764.0	30.12	765.0	54.3	12.4	99	sw.	2	0.9		3 c	fg.	w.		0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.82	706.6	29.95	760.7	13.0	—10.6	91	calm	0	0			10 n			inap.	inap.	light snow	D. Moore.
Springfield, Illinois	28.79	731.3	29.57	749.8	46.9	8.3	78	s.	20	8.9			10 s		sw.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.01	686.0	30.14	765.5	47.5	8.6	74	n.	16	7.2		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.53	750.0			32.2	0.1	73	e.	38	17.0			10 s		e.	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.48	698.0	30.31	769.9	31.5	— 0.3	67	calm			0	0	0			0.19	4.8	clear	R. C. Lord.
Toledo, Ohio	29.06	738.1	29.80	756.9	43.4	6.3	94	s.	5	2.2			10 s		sw.	0.01	0.3	cloudy	A. Buell.
Unalaska, Alaska	29.26	743.2	29.28	743.7	37	2.8	89	e.	20	8.9			10 n			1.65	41.9	light rain	Samuel Applegate.
Vicksburg, Mississippi	29.47	718.5	29.74	755.4	62	16.7	87	se.	10	4.5			10 s		sw.	0	0	cloudy	C. Dill.
Washington, D. C	30.05	763.3	30.17	766.3	37.9	3.3	98	s.	1	0.4			fg.			inap.	inap.	dense fog	T. B. Harrison.
West Las Animas, Colorado	25.98	659.9	30.10	764.5	18.5	— 7.5	78	n.	24	10.7		0	0			0.04	1.0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.07	763.8	30.13	765.3	54.5	12.5	90	sw.	2	0.9		0	1 s			0.01	0.3	clear	L. H. Albrecht.
Yankton, Dakota	28.70	729.0	30.12	765.0	— 1.3	—18.5	62	nw.	20	8.9			10 s			0	0	cloudy	E. H. Thompson.
Yuma, Arizona	30.01	762.2	30.16	766.1	45.8	7.7	82	ne.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.56	750.8	29.58	751.3	32.3	0.2	86	n.	24	10.7			10 n			0	0	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A.					76	24.4		nw.			2		10 n		ne.	0.41	10.4	raining	W. H. Jackson.
Bogota, U. S. C.	22.03	559.6			50.0	10.0	86	sw.	2	1		2cs; ck	0			0	0		Joaquin Gomez.
Chimo, Fort, Ungava	30.27	768.8	30.43	772.9	—31	—35.0	100	calm	0	0		0	0			0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.10	764.5	66.9	19.4	86	n	2	0.9		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	76	24.4	91	e.			3			e.	e.	0.200	5.1		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	75	23.9	94	s.			1	0	9 ks		s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	88	ne.			2	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	29.99	761.7	30.06	763.5	—30.0	—34.4		w.	10	4.5		0	0			0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.93	760.2	29.94	760.4	76.3	24.6	85	s.	3.8	1.7		0	3 k		n.	0	0	clear	P. Fasiani.
Naos, Bay of Panama	29.93	760.3	30.00	762.0	72.3	22.4	89	nw.			4	0	4 k		n.	0	0	fair	Antonio Fabra.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
S.S. Assyrian Monarch, N. 49° 18′, W. 28° 27′ †	29.08	738.6	42	5.6		wnw.			7		6?		wnw.	3 h'r	3 h'r	high	wnw.	cloudy.?
S. S. Alvo, Jeremie, Hayti, W. I	30.14	765.5	73	22.8		calm			0		4		calm	2 h'r	2 h'r	long	nnw.	fine.
S. S. Alleghany, Chesapeake Bay †	30.14	765.5	52?	11.1?		calm			0		10		ne.	0	0			foggy.
S. S. Ailsa, Colon, U. S. C.			76.5	24.7	90	sw.			2		2		n.	0	0	sm'h		fine.
S. S. America, N. 43° —′, W. 48° —′			40	4.4	91	nne.			6		7		ne.	snow	snow	r'gh	ne.	fair.
S. S. Arizona, N. 49° 44′, W. 27° 11′	29.06	738.1	38	3.3		wnw.			6–7		8		nw.	0	0	high	wnw.	fair.
Schr. Arthur Burton, N. 31° 45′, W. 80° 00′ †	30.09	764.3				ssw.			1		3		calm	0	0			smoky.
S. S. Alps, Kingston, Jamaica, W. I *†	30.15	765.8	79	26.1		n.			2		4		ese.	0	0	short		fair.
S. S. Adriatic, N. 47° 37′, W. 35° 00′ †	29.53	750.0				nw.			6		5		nw.			h'vy	n.	squally.
Schr. Annie R. Lewis, N. 34° 14′, W. 76° 35′ †	30.12	765.0	66?	18.9?		calm			0		0			0	0	mod.	s.	clear.
S. S. British Crown, N. 44° 02′, W. 39° 11′			45	7.2		n.			4		10			5 h'r	5 h'r	mod.	nw.	raining.
S. S. Circassian, N. 51° 18′, W. 28° 30′	29.02	737.1	35	1.7	90	w.			6		7		w.			6	w.	fair
S. S. Caracas, N. 31° 00′, W. 70° 40′ †	30.20	767.1	71.5	21.9	80	nnw.			4		2		nw.	2 h'r	2 h'r	mod.	var.	clear.
S. S. City of Washington, N. 35° 15′, W. 75° 05′			65?	18.3?		n.			3		1		n.	0	0	sm'h		fine.
S. S. Canada, (Br) N. 45° 54′, W. 35° 04′ †	29.65	753.1	43	6.1	75	nw.			5		10		nw.	hail	hail	mod.	nw.	dull.
S. S. Chalmette, N. 31° 00′, W. 80° 20′ *†	30.06	763.5	70	21.1		ssw.			1		3		sw.	0	0	sm'h		clear.
S. E. J. Spicer, N. 37° 30′, W. 55° 11	29.90	759.4	67	19.4	89	sw.			6		10		wsw.	rain	rain	mod.	wsw.	cloudy.
S. S. France, N. 49° 15′ W. 22° 48′						s.			6		5		s.	0	0	sm'h	s.	fair.
S. S. Frisia, N. 41° 35′, W. 65° 50′			36.5	2.5		n.			6		10		ne.	16 h'r	16 h'r	h'vy	ne.	overcast.
S. S. Grecian, N. 47° 03′, W. 39° 30′	29.72	754.9	34	1.1	71	nnw.			5		4		nnw.	2 h'r	2 h'r	high	nnw.	squally.
S. S. Hohenstaufen, N. 48° 36′, W. 26° 18′			45	7.2	84	nw.			7		6		nw.	5 h'r	5 h'r	hv'y	nw.	fair.
S. S. Helvetia, N. 48° 06′, W. 36° 01′	29.56	750.8	38	3.3		nw.			6		8		nw.	0	0	long	nw.	cloudy.
Bk. Idaho, N. 21° 21′, W. 81° 12′ *†	30.08	764.0				e.			3		2		e.	0	0	sm'h		clear.
Schr. Jennie N. Huddell, N. 35° 30′, W. 75° 10′ †	30.12	765.0	54	12.2		w.			1		0			rain	rain	long	s.	clear.
S. S. Lone Star, N. 24° 27′, W. 81° 43′ *†	30.14	765.5	75	23.9		ese.			3		3		se.	0	0	sm'h		fair.
S. S. Mentmore, N. 47° 51′, W. 29° 18′ *†	29.24	742.7				nw.			9		3		nw.	4 h'r	4 h'r	h'vy	nw.	stormy.
S. S. Marengo, N. 43° 11′, W. 61° 07′ *†	29.94	760.5	30	— 1.1		ne.			6		10			16 h'r	16 h'r	high	ne.	snowing.
S. S. Neckar, N. 41° 10′, W. 56° 08′	29.52	749.8	49.0	9.4	100	var.			5–6		8		var.	rain	rain	r'gh	sw.	
S. S. Orinoco, Staten Island, N. Y.			46?	7.8?		ese.			3		10			5 h'r	5 h'r			foggy.
S. S. Ohio, (Am.) N. 50° 17′, W. 23° 00′ *†	29.15	740.4	41	5.0	91	sse.			7		10		sse.	4 h'r	4 h'r	r'gh	var.	overcast.
S. S. Pennsylvania, N. 47° 18′, W. 34° 00′ †	29.53	750.0	36	2.2	90	nnw.			6		8		nw.	2 h'r	2 h'r	h'vy	n.	he'vy snow
S. S. Rhynland, N. 44° 49′, W. 47° 45′	29.92	760.0	30	— 1.1	89	nne.			6		10		n.	0	0	mod.	n.	squally.
S. S. Sardinian, N. 44° 18′, W. 62° 41′			25	— 3.9		ne.			6					12 h'r	12 h'r	r'gh	ne.	cloudy.
S. S. Samaria, N. 41° 57′, W. 55° 00′			41	6.7		ene.			6		10		se.	20 h'r	20 h'r	h'vy	ene.	raining.
S. S. Salier, N. 46° 21′, W. 39° 13′ *	29.66	753.4				n.			6		4		nw.	3 h'r	3 h'r	long	nw.	fair.
S. S. Valencia, La Guayra, Venezuela †	30.00	762.0	76	24.4	86	ne.			3		8		ne.	4 h'r	4 h'r	mod	nne.	drizzling.
S. S. Pennland, N. 49° 36′, W. 15° 04′ *	29.38	746.2	41	5.0	91	nnw.			5		8		nw.	8 h'r	8 h'r	high	nw.	cloudy.
Schr. Adda Doane, Port Antonio, Jamaica, W. I †	30.08	764.0				s.			2		3		ne.	1 h'r	1 h'r			clear
Bg. Alcira, N. 18° 48′, W. 74° 10′ *	30.16	766.1	80	26.7		sw.			1		1			0	0	sm'h	n.	dense haze
S. S. Cienfuegos, N. 24° 00′, W. 74° 53′	30.14	765.5	72	22.2		nw.			2		0			0	0	small	ne.	clear.
Bk. Chas. Stewart, N. 36° 03′, W. 5° 12′ *†	30.07	763.8				wsw.			2		10		e.	light	light	mod.	s.	cloudy.
Bk. Cato, N. 39° 22′, W. 20° 05′ †	30.13	765.3	54	12.2	83	wnw.			3		2		wnw.	0	0	hv'y	nw.	fair.
S. S. Donau, N. 49° 45′, W. 8° 20′	29.34	745.2	48.2	9.0		se.			1		10		ssw.	9 h'r	9 h'r	mod.	sw;w	raining.
S. S. Gallia, N. 46° 22′, W. 37° 10′			43	6.1		n.			6		8		n.	shr's	shr's	mod.	nw.	squally.
S. S. Habsburg, N. 43° 55′, W. 45° 26′	29.66	753.3				ne.			7		9		n.	14 h'r	14 h'r	r'gh	ne.	overcast.
S. S. Pavonia, Mersey river, Eng			50	10.0	86	ssw.			2		8		s.	0	0			cloudy.
S. S. Rialto, N. 50° 36′, W. 2° 25′ †			52	11.1		sw.			5		5		s.	0	0	mod.	sw.	fair.
S. S. Sirius, N. 28° 31′, W. 66° 07′	30.19	766.8				sw.			2		0			0	0	sli't	se.	clear.
Bk. Saga, N. 32° 29′, W. 79° 31′ †	30.11	764.7	69	20.6		wsw.			1–6		2		wsw.	0	0	r'gh	ssw.	clear.
S. S. Vaderland, N. 43° 50′, W. 50° 00′			27	— 2.8		ene.			6		7		ne.	16 h'r	16 h'r	mod.	ne.	squally.
S. S. Virginian, N. 42° 00′, W. 44° 00′			48	8.9		ne.			6				nne.	10 h'r	10 h'r	r'gh	ene.	cloudy.
S. S. Wyoming, N. 45° 06′, W. 41° 20′	29.74	755.4	37	2.8		n.			4		7		nne.	6 h'r	6 h'r	long	n.	showery.
S. S. Westphalia, Hamburg, Germany			33	0.6	80	sw.			2		4		sw.	3 h'r	3 h'r			fair.
S. S. St. Laurent, N. 44° 05′, W. 45° 15′	29.66	753.3	39.2	4.0		ne.			5		10		nne.	4 h'r	4 h'r	large		overcast.
S. S. Crescent City, N. 27° 56′, W. 74° 18′ *†	30.18	766.6	72	22.2		wsw.			1								w.	fine.
S. S. Reliance, N. 39° 23′, W. 74° 03′			43	6.1		ene.			4								w.	gloomy.
U. S. Navy Yard, Portsmouth, N. H *	30.19	766.8	27	— 2.8	88	ne.	9	4.0			10		ne.	0.6	15.			cloudy.
U. S. S. Alliance, St. Thomas, W. I	30.11	764.8	76	24.4	77	ne.			1		2		calm	light	light			fair.
U. S. S. Kearsarge, Naples, Italy	30.17	766.3	51	10.6	59	ene.			4		8		ene.					cloudy.
U. S. S. Lancaster, Naples, Italy	30.18	766.6	51	10.6	100	e.			3		2			0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.20	767.1	33	0.6	100	ne.			4		10		ne.			sm'h		cloudy.
U. S. S. Portsmouth, Fortress Monroe, Va	30.12	765.0	44	6.7	100	ne.			1		8							foggy.
U. S. S. Powhatan, Boston, Mass	30.21	768.1	31	— 0.6	89	nne.			4		10							cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.19	766.8	50	10.0	65	e.			3		0					sm'h		clear.
U. S. S. Swatara, Port au Prince, Hayti, W. I			74	23.3	81	se.			1		0			light	light	sm'h		clear.
U. S. S. Trenton, Naples, Italy	30.18	766.6	53	11.7	54	ene.			4		8		e.					fair.
U. S. S. Vandalia, Curacoa, W. I	30.03	762.7	76	24.4	82	ese.			2		2		calm					fair.
U. S. S. Yantic, New York, N. Y	30.23	767.8	42	5.6	100	ese.			1		10							drizzling.
H. M. S. Alexandra, N. 35° 31′, E. 16° 30′	29.95	760.7	53	11.7	100	ene.			6		10		ene.			6	ene.	overcast.
H. M. S. Alecto, N. 4° 00′, W. 8° 05′	29.91	759.7	75	23.9		var.			1–3		10		wsw.			3	s	raining.
H. M. S. Boadicea, N. 5° 00′, W. 9° 07′	29.96	761.0	81	27.2	91	wnw.			1		2		wnw.			1	wnw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.03	762.7	66.5	19.2	89	ssw.			4		4		wsw.					d. clouds.
H. M. S. Himalaya, N. 32° 05′, W. 59° 20′			68	20.0	84	sw.			4–6		3		sse.			4	wsw.	squally
H. M. S. Minotaur, Terranova, Sicily	30.18	766.6	49	9.4	67	nne.			3		10							overcast.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.86	758.5	88.7	31.5	76	sse.			2		3		se.	1 h'r	1 h'r	2	se.	d. clouds.
S. S. British Princess, N. 43° 30′, W. 40° 30′ †	29.63	752.6	44	6.7		ne.			6		10		nne.	10 h'r	10 h'r	r'gh	cross	overcast
S. S. Lord Clive, N. 39° 42′, W. 62° 24′						nnw.			6		4?		nnw.	0	0	str'g	sw.	cloudy?
S. S. Prussian, N. 54° 46′, W. 12° 23′			45	7.2		nnw.			5		10		nnw.	4 h'r	4 h'r	h'vy	cross	drizzling.
S. S. Scandinavian, Glasgow, Scotland	29.67	753.6	42	5.6		se.			4		10		se.					misty
S. S. Alpin, N. 26° 30′, W. 67° 20′			75	23.9		s			2					0	0	mod.	sse.	fine.
S. S. Dorian, N. 51° 29′, W. 16° 15′			50?	10 0?		w.			2		4			0	0	long	wnw.	fine.
S. S. Carroll, Halifax, N. S.			12	—11.1		nne.			5		6		nne.	h'vy	h'vy			fair.
S. S. Llandaff City, N. 49° 00′, W. 19° 25′			48	8.9		w.			6		7			0	0	h'vy	sw	fair.
S. S. Wisconsin, N. 42° 55′, W. 55° 40′	29.66	753.4	37	2.8		ne.			8		10		ene.	12 h'r	12 h'r	high	ne	showery.
S. S. Bohemia, N. 49° 03′, W. 25° 44′						var.			3–9		8		sw;nw.	6 h'r	6 h'r	h'vy	var.	cloudy.
S. S. Rugia, N. 42° 07′, W. 56° 00′			37	2.8		ene.			7		4		e.	13 h'r	13 h'r	hv'y	e.	clear.
S. S. Rhaetia, N. 49° 56′, W. 14° 51′			42.5	5.8		nnw.			2–3		10			3 h'r	3 h'r	mod.	wnw.	cloudy.
S. S. Archimede, (It) N. 38° 14′, E. 3° 10′						e.			4		3		e.	0	0	h'vy	e.	clear.
S. S. Picqua, N. 41° 50′, W. 21° 10′ *†	29.90	759.4	50	10.0	7	wsw.			6				w.	light	light	high	nw.	cloudy.
S. S. Texas, N. 26° 02′, W. 84° 33′			70	21.1	100	s.			3		3?		ne.	0	0	sm'h		cloudy.?
S. S. Ontario, N. 50° 05′, W. 20° 07′			39	3.9		s.			6		9		var.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. Denmark, N. 49° 14′, W. 9° 12′ †	29.46	748.3	51	10.6	93	sw.			4		8		sw.	shr's	shr's	mod	sw.	cloudy.
S. S. England, N. 42° 42′, W. 47° 45′	29.67	753.6				ne.			6		10		ne.	8 h'r	8 h'r	h'vy	var.	overcast.
S. S. Erin, off Sandy Hook, N. J						ese.			3		10		ese.	7 h'r	7 h'r			overcast.
S. S. Leipzig, N. 15° 25′, W. 28° 28′ *	30.05	763.3	73.5	23.1	95	ene.			4		4		ene.	1 h'r	1 h'r	sm'h	ne.	light squalls.
S. S. Strassburg, N. 39° 29′, W. 12° 23′	30.01	762.2	50.5	10.3	79	wnw.			6		5		wnw.			7	wnw.	squally.
S. S. City of Augusta, Savannah, Ga						wsw.			6		4		wsw.	0	0			clear.
S. S. Muriel, N. 22° 43′, W. 64° 32′	30.23	767.8	74	23.3		ese.			3		0			0	0	mod	e	clear.
S. S. Waesland, Antwerp, Belgium	29.90	759.4	50	10.0		s.			5		5		s.	2 h'r	2 h'r			fair.
S. S. Westernland, N. 42° 34′, W. 53° 35′			47	8.3	85	ene.			6		10		ene.	24 h'r	24 h'r	h'vy	ene.	overcast.
S. S. W. A. Scholten, Rotterdam, Netherlands			47.7	8.7	91	sw.			5		10		sw.	10 h'r	10 h'r			raining.
S. S. Zaandam, N. 49° 24′, W. 10° 14′			50.9	10.5	87	calm			0		4		sw.	8 h'r	8 h'r	long	w.	fair.
S. S. State of Nebraska, N. 41° 47′, W. 57° 25′			41	5.0		ene.			7–8		10		e.			high	e.	rainy.
S. S. Saxon, Philadelphia, Pa			44	6.7		e.			1		10			0	0			threatening.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity Miles p. hr.	Velocity Mtrs. p. sec	Force. 0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
U. S. Celtic, Liverpool, Eng*†..	29.68	753.9	48?	8.9?	.....	se.	.....	.....	3	.....	9	.....	sse.	14 h'r	14 h'r	.....	.....	gloomy.
S. S. Republic, N. 42° 26', W. 53° 43'*†..	29.62	752.3	31	— 0.6	?	ne.	.....	.....	7	.....	10	.....	.....	4 h'r	4 h'r	h'vy	ne.	snow squalls
S. S. Lepanto, N. 36° 10', W. 7° 24'..	30.02	762.5	58	14.4	.....	wnw.	.....	.....	6	.....	5	.....	wnw.	1 h'r	1 h'r	h'vy	wnw.	d. clouds.
S. S. Romano, Hull, England..	.....	.....	43	6.1	.....	s.	.....	.....	4	.....	5	.....	ssw.	0	0	.....	.....	fine.
S. S. Salerno, N. 41° 05', W. 65° 19'†..	30.03	762.7	38	3.3	.....	n	.....	.....	5	.....	10	.....	ne.	0.5	13.	mod.	ne.	rain & snow.
S. S. Antonio Lopez, Barcelona, Spain..	30.08	764.0	56.5	13.6	81	se.	.....	.....	4	10 c	.....	.....	.....	7 h'r	7 hr	.....	.....	squally.
Bgt. Achsah, N. 26° 46', W. 61° 36'†..	30.25	768.3	74	23.3	.....	calm	.....	.....	0	.....	2	.....	sw.	0	0	long	ne.	clear.
S. Armenia, N. 50° —', W. 2° —'*..	29.18	741.2	46	7.8	62	see.	.....	.....	8	.....	10	.....	.....	1 h'r	1 h'r	cross	.....	misty.
S. S. Bracadale, N 40° 48', W. 52° 44'..	.....	.....	43	6.1	.....	ne.	.....	.....	6	.....	3	.....	ne.	18 h'r	18 h'r	h'vy	ne.	clearing.
Bk. Benjamin Dickerman, N. 31° 00', W. 58° 00'..	.....	.....	71	21.7	.....	ssw.	.....	.....	5	.....	1	.....	ssw.	0	0	short	wsw.	clear.
S. Cornelius, N. 39° 53', W. 56° 21' *†..	29.70	754.4	62.4	16.9	.....	wsw.	.....	.....	8	.....	10	.....	wnw.	6 h'r	6 h'r	h'vy	var.	squally.
S. Dora, N. 46° 28', W. 32° 55'†..	29.44	747.8	41.9	5.5	.....	wnw.	.....	.....	6	.....	7	.....	nw.	8 h'r	8 h'r	long	nnw.	cloudy.
S. David Stewart, N. 12° 23', W. 64° 13'..	.....	.....	78	25.6	.....	ene.	.....	.....	4	.....	3	.....	ene.	0	0	mod.	ene.	clear.
Schr. Edith R. Seward, N. 30° 13', W. 57° 02'†..	30.17	766.3	70	21.1	.....	sw.	.....	.....	2	.....	6	.....	sw.	0	0	short	w.	cloudy.
Bk. Fred W. Carlon, Progreso Roads, C. A†..	30.01	762.2	78	25.6	.....	se.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Gloire, N. 30° 33', W. 72° 05' *..	30.13	765.3	70	21.1	.....	nnw.	.....	.....	2	.....	2	.....	nnw.	0	0	sm'h	.....	clear.
Bk Godeffroy, N. 1° 33', W. 35° 29'..	.....	.....	78.6	25.9	96	n.	.....	.....	2	.....	7	.....	.....	9 h'r	9 h'r	mod.	ne.	showery.
Bk. George Davis, N. 40° 50', W. 39° 50' *†..	29.76	755.9	.....	.....	.....	wsw.	.....	.....	6	.....	.....	.....	wsw.	0	0	h'vy	w.	raining.
Bk. Galeon, Grimsby Road, Eng†..	29.80	756.9	42	5.6	.....	s.	.....	.....	3	.....	10	.....	s.	0	0	.....	.....	misty.
Bk. Hattie G. McFarland, N. 21° 35', W. 83° 50'†..	30.09	764.3	78	25.6	.....	ese.	.....	.....	4	.....	4	.....	ese.	0	0	sm'h	.....	fine.
S. Henry, N. 42° 18', E. 16° 36 *..	30.30	769.6	49.1	9.5	.....	nnw.	.....	.....	4	3 ck	0	.....	.....	.....	.....	3	nnw.	fair.
Bg. John Wesley, N. 31° 23', W. 78° 04..	.....	.....	.....	.....	.....	w.	.....	.....	6	.....	4	.....	w.	5 h'r	5 h'r	cross	var.	fair.
Bg. John Welsh, jr, N. 26° 10', W. 79° 50'..	.....	.....	.....	.....	.....	ese.	.....	.....	3	.....	.....	.....	se.	.....	.....	sm'h	se.	
Schr. John Bird, N. 36° 40', W 75° 50'..	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	h'vy	e.	clear.
S. S. Laurel, Key West, Fla†..	30.10	764.5	75	23.9	.....	se.	.....	.....	2	.....	4	.....	se	0	0	.....	.....	fair.
S. S. Madrid, N. 52° 31', E. 1° 53'†..	29.83	757.7	46	7.8	92	s.	.....	.....	0	.....	9	.....	s.	0	0	mod	sse.	fair.
Schr. Minnie A. Bonsall, Brunswick, Ga..	.....	.....	.....	.....	.....	s.	.....	.....	1	.....	.....	.....	.....	0	0	.....	.....	clear.
Schr. Maggie Abbott, N. 30° 10', W. 73° 40'*†	30.15	765.8	.....	.....	.....	nw.	.....	.....	3	.....	0	.....	.....	sh'rs	sh'rs	short	s.	clear.
Schr. Norena, Ponce, Porto Rico, W. I†..	.....	.....	.....	.....	.....	n.	.....	.....	2	.....	2	.....	ene.	1 h'r	1 h'r	.....	.....	fine.
Bk. Orpheus, N. 50° 20', W. 24° 15'..	.....	.....	40	4.4	.....	sse.	.....	.....	9	.....	10	.....	w.	.....	.....	cross	var.	sleeting.
S. S. Radnorshire, N. 46° 54', W. 5° 48'..	.....	.....	.....	.....	.....	ssw.	.....	.....	6	.....	5	.....	ssw.	8 h'r	8 h'r	h'vy	var.	fine.
Bk. Sunbeam, N. 39° 12', W. 61° 29'*†..	29.70	754.4	60	15.6	88	w.	.....	.....	8	.....	7	.....	w.	4 h'r	4 h'r	h'vy	w.	cloudy.
Bgt. Sunlight, N. 29° 50', W. 59° 15'†..	30.21	767.3	.....	.....	.....	ssw.	.....	.....	3	.....	2	.....	sw.	0	0	mod.	se.	clear.
S. St. David, N. 18° 19', W. 41° 25'..	.....	.....	75.3	24.1	77	nne.	.....	.....	3	.....	4	.....	nne.	½ h'r	½ h'r	light	ne.	squally.
S. Stephen D. Horton, Antwerp, Belgium..	.....	.....	.....	.....	.....	s.	.....	.....	3	.....	9	.....	se.	0 h'r	0 h'r	.....	.....	
Bk. Silica, Dungeness, Eng..	.....	.....	.....	.....	.....	ssw.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. Vincenzo Accame, N. 36° 16', W. 51° 14'†..	29.95	760.7	62.6	17	.....	sw.	.....	.....	6	.....	6	.....	sw.	4 h'r	4 h'r	h'vy	ssw.	
S. S. City of Washington, N. 35° 15', W. 75° 05'..	.....	.....	65?	18.3?	.....	n.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	fine.
S. S. Minasdam, N. 41° 10', W. 55° 50'*..	29.47	748.5	53.6	12	.....	nw.	.....	.....	7	.....	.....	.....	.....	.....	.....	high	nw.	rainy.
S. S. Strathleven, N. 49° 08', W. 18° 58'..	.....	.....	.....	.....	.....	sse.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay..	30.11	764.8	71	21.7	80	nne.	.....	.....	1	.....	5	.....	nne.	.....	.....	.....	.....	fair.
H. M. S. Amethyst, Montevideo, Uruguay..	30.00	762.0	70	21.1	82	calm	.....	.....	0	.....	4	se.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony*†..	30.03	762.7	71	21.7	75	ssw.	.....	.....	1	.....	6	calm	.....	.....	.....	.....	.....	d. clouds.
H. P.M.S. Rainha de Portugal, Banana, Guinea..	29.76	756.0	83.3	28.5	85	nw.	.....	.....	3	.....	1	.....	.....	0	0	1	.....	blue sky.
H. P. M. S. Bengo, S. 3° 28', E. 0° 23'..	29.91	759.6	86.0	30.0	85	ssw.	.....	.....	4	.....	7	.....	sw.	0	0	3	ssw.	d. clouds.
S. S. Hevelius, S. 18° 05', W. 36° 10'*†..	30.10	764.5	84	28.9	.....	ne.	.....	.....	4	.....	2?	.....	ne.	0	0	.....	.....	overcast.?
S. S. Rosse, S. 4° 13', W. 31° 59'..	29.81	757.2	81	27.2	74	se.	.....	.....	4	.....	1	.....	se.	0	0	.....	.....	fine.
Bk. Adelaide, S. 0° 47', W. 31° 14' *†..	29.91	759.7	.....	.....	.....	se.	.....	.....	3	.....	1	.....	sse.	0	0	light	var.	clear.
Bk. Celestina, S. 21° 29', W. 30° 17'*†..	29.97	761.2	.....	.....	.....	nne.	.....	.....	4	.....	6	.....	ne.	0	0	light	ne.	fine.
S. S. George S. Homer, S. 24° 47', W. 32° 34'*†..	30.08	764.0	.....	.....	.....	nne.	.....	.....	1	.....	2	.....	nne.	2 h'r	2 h'r	sm'h	n.	fine.
S. Grecian, S 35° 35', W. 32° 27'†..	30.03	762.7	66	18.9	84	ene.	.....	.....	5	.....	9	.....	n.	0	0	mod.	n.	cloudy.
S. Henry Failing S. 30° 02', W. 24° 58'*†..	30.11	764.8	77	25.0	86	n.	.....	.....	2	.....	5	.....	n.	0	0	sm'h	.....	fair.
Bk. Horace Scudder, Congo river, Guinea *†..	30.05	763.3	89	31.7	.....	wsw.	.....	.....	2	.....	8?	.....	w.	0	0	.....	.....	clear.?
Bkt. Levanter, Montevideo, Uruguay*..	30.09	764.3	74	23.3	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	light	sw.	clear.
Bk. Winifred, S. 11° 29', W. 34 13' *†..	29.95	760.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	e.	0	0	.....	e.	
S. Orealia, S. 39° 10', W. 1° 30' *..	30.05	763.3	.....	.....	.....	nw.	.....	.....	5	.....	fg	.....	nw.	8 h'r	8 h'r	sm'h	.....	
District No. 3—North Pacific.																		
U. S. S. Alert, Nagasaki, Japan..	30.36	771.1	44	6.7	76	e.	.....	.....	1	.....	0	.....	.....	.....	.....	mod.	w.	clear.
U. S. S. Essex, Canton, China..	30.09	764.3	65	18.3	94	nne.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	rainy.
U. S. S. Hartford, N. 18° 28', W. 144° 32'..	30.03	762.7	75	23.9	81	e.	.....	.....	4	.....	5	.....	e.	0	0	sm'h	.....	fair.
U. S. S. Juniata, Nagasaki, Japan..	30.38	771.6	47	8.3	92	n.	.....	.....	1	.....	8	.....	n.	0	0	.....	.....	cloudy.
U. S. S. Monocacy, Ningpo, China..	30.33	770.4	51	10.6	86	ne.	.....	.....	2	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
U. S. S. Palos, Tientsin, China..	30.34	770.6	30	— 1.1	.....	se.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	clear.
H.M.S. Audacious, Victoria harbor, Hong Kong, China	30.07	763.8	64	17.8	94	calm	.....	.....	0	.....	4	e.	.....	.....	.....	1	.....	d. clouds.
H. M. S. Cleopatria, N. 24° 20', E. 118° 05'..	30.07	763.8	63	17.2	86	ese.	.....	.....	1	.....	9	s.	.....	.....	.....	.....	.....	overcast.
H. M. S. Champion, Shanghai, China..	30.37	771.4	53?	11.7?	79	e.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Flying Fish, N. 24° 26', E. 118° 04'..	.....	.....	60.4	15.8	90	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Magpie, N. 5° 24', E. 100° 20'..	29.91	759.7	85.9	29.9	67	nw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
H. P. M. S. Tamega, Macao, China..	30.15	765.8	65.3	18.5	85	n.	.....	.....	4	.....	10	.....	.....	3 h'r	3 h'r	.....	.....	overcast.
S. S. Newbern, N 26° 58', W. 110° 45' *†..	30.12	765.0	60	18.9	84	nnw.	.....	.....	4	.....	3	.....	nw.	0	0	small	nnw.	clear.
S. S. Oceanic, N. 39° 24', W. 129° 00'..	30.00	762.0	54	12.2	93	w.	.....	.....	2	.....	7	.....	w.	0	0	3	w.	fair.
S. S. Oregon, Portland, Oregon†..	29.66	753.4	34	1.1	79	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	snowing.
S. S. Alameda, N. 30° 08', W. 139° 53'†..	30.14	765.5	67	19.4	.....	sse.	.....	.....	3	.....	0	.....	.....	0	0	mod.	wnw.	clear.
S. S. Ancon, Point Loma, Cal..	30.14	765.5	54	12.2	93	ene	.....	.....	2	.....	0	.....	.....	mod.	mod.	mod.	sw.	clear.
S. S. City of Chester, San Francisco, Cal †..	30.28	769.1	48	8.9	70	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	
S. S. Queen of the Pacific, Victoria, B.C..	.....	.....	29	— 1.7	100	nnw.	.....	.....	3	.....	4	.....	n	3 h'r	3 h'r	sm'h	.....	fair.
S. S. State of California, San Francisco, Cal †..	30.30	769.6	41	5.0	82	se.	.....	.....	2	.....	0	.....	se.	.....	.....	.....	.....	fair.
S. S. Eureka N. 55° 07' W. 129° 50'*†..	30.06	763.5	13	—10.6	100	n.	.....	.....	3	.....	10	.....	.....	24 h'r	24 h'r	sm'h	.....	h'vy snow.
S. S. Australia, N. 23° 07', W. 155° 05'..	30.17	766.3	75	23.9	95	ese.	.....	.....	3	.....	2	.....	se.	0	0	sm'h	e.	clear.
S. S. City of Sydney, N. 35° 54', W. 127° 57' *†..	30.15	765.8	60	15.6	76	ssw.	.....	.....	3	.....	6 k	.....	sw.	.....	.....	h'vy	wnw.	fair.
S. S. Colima, N. 10° 06', W. 85° 45'†..	29.99	761.7	75	23.9	81	ne.	.....	.....	3	.....	2	.....	ene.	0	0	mod.	ene.	clear.
S. S. Granada, N. 35° 14', W. 121° 05'..	.....	.....	50	10.0	65	nnw.	.....	.....	2	.....	0	.....	.....	0	0	large	wnw.	clear.
S. S. San Blas, N. 15° 36', W. 96° 32'..	.....	.....	76	24.4	80	w.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	ssw.	clear.
S. S. San Jose, N. 24° 27', W. 112° 20' *†..	30.21	767.3	59	15.0	.....	n.	.....	.....	3	.....	4	.....	nnw.	2 h'r	2 h'r	long	nw.	fine.
S. St. Francis, N. 21° 18', W. 126° 00'..	.....	.....	66	18.9	68	nne.	.....	.....	5	.....	6	.....	nw.	.....	.....	h'vy	nw.	fair.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, Callao, Peru*..	30.02	762.5	71	21.7	100	se.	.....	.....	1	.....	10	.....	calm	.....	.....	sm'h	.....	overcast.
H. M. S. Espeigle, S. 46° 36', E. 168° 22'..	30.00	762.0	52	11.1	79	sw.	.....	.....	1-3	.....	4	.....	.....	.....	.....	.....	.....	squally.
H. M. S. Lark, S. 36° 50', E. 174° 48'..	30.02	762.5	59.3	15.2	82	calm	.....	.....	0	.....	3	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Nelson, S. 42° 53', E. 147° 21'..	29.92	760.0	61	16.1	94	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Zealandia, Sydney, N. S. W..	30.04	763.0	81	27.2	91	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	fine.
S. Ismir, S. 53° 18', W. 81° 50'*†..	28.88	733.5	.....	.....	.....	sw.	.....	.....	5	.....	10	.....	sw.	6 hr	6 hr	h'vy	sw.	rainy.
H. M. S. Liffey, S. 29° 55', W. 71° 21'..	29.91	759.7	65	18.3	.....	n.	.....	.....	2	.....	8	n.	.....	.....	.....	4	n.	
H. M. S. Sylvia, off Sandy Point, Patagonia..	29.21	741.9	49	9.4	95	ese.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	showery.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt..	29.99	761.7	74	23.3	68	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tourmaline, Mananhar, Madagascar..	30.01	762.2	80	26.7	82	s.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	blue sky.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 20. 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.09	764.2	50.0	15.0	81	se.			2		3			0.039	1.0		Roziere.
Algiers			30.06	763.6	60.8	16.0	71	w.			5		9			0.126	3.2		Théve.
La Calle			30.05	763.2	60.4	15.8	77	nw.			2		5			0	0		Fontréde.
Tunis			30.05	763.3	57.2	14.0	63	nw.			3		2			0	0		Delord.
Geriville					48.0	9.4	71	nw.			2		4			0.031	0.8		Forfert.
Laghouat			30.14	765.6	66.6	19.2	68	w			2		0			0.031	0.8		Abraham.
Biskra			30.10	764.4	57.6	14.2	87	calm			0		6			0.512	13.0		Gouzon.
Australian.																			
Adelaide, South Australia			29.70	754.4	80.0	31.1	31	e.	4	1.8			3 k			0	0		Charles Todd, C. M. G.
Hobart Town, Tasmania	29.61	752.1	29.80	756.9	64	17.8	84	ssw.	5	2.2			4		sw	0	0	hazy	Com. J. Shortt, R.N.
Melbourne, Victoria	29.69	754.1	29.78	756.4	69.0	20.6	92	sw.	2	0.9			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.71	754.5	30.28	769.1	39.2	4.0	32	s.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.36	745.7	30.15	765.9	37.4	3.0	90	ene.	0.7	0.3			0			0	0		Dr. Wierzbiski
Eperies	29.33	744.9	30.25	768.4	33.4	0.8	85	calm			0		0			0	0		Julius Mikolik.
Gratz	28.95	735.4	30.27	768.8	34.0	1.1	57	s.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.79	731.3	30.29	769.3	37.4	3.0	73	w.			2		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.78	731.1	30.18	766.5	36.9	2.7	54	se.			1		0			0	0	clear	The Staff.
Lemberg	29.17	740.9	30.20	767.0	38.1	3.4	60	s.			2		0			inap.	inap.		Dr. T. Stanecki.
Pola	30.16	766.1	30.28	769.0	44.6	7.0	74	wnw.			4		0			0	0		I. R. Hydrographic Office.
Szathmar	29.76	756.0	30.25	768.4	37.8	3.2	47	sw.			2		0			0	0		Joseph Midlinszky, S. J
Szegedin	29.99	761.8	30.28	769.2	39.6	4.2	52	s			1		0			0	0		Karl Stancel.
Trieste	30.21	767.4	30.31	769.0	43.9	6.6	58	calm			0		0			0	0		Royal Academy.
Vienna	29.48	748.9	30.23	767.8	38.8	3.8	55	se.			2		0			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.67	728.1	30.09	764.2	42.4	5.8	82	sw.			1		3			0	0		
Brussels	29.83	757.7	30.01	762.9	47.8	8.8	85	ssw.			4		10		sw.	inap.	inap.		
Furnes	29.97	761.3	29.99	761.8	53.2	11.8	76	ssw.			0-1		6			0.047	1.2		
Maeseyck	29.92	759.9	30.04	763.1	52.3	11.3	76	sw.			2		9			0	0		
British.																			
Aberdeen	29.42	747.3	29.52	749.8	45.0	7.2	84	sse.	22	9.8			2			0.050	1.3	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			29.60	751.8	46.9	8.3	70	sse.	22	9.8			10					showery	John Hartnup.
Bolton, Sharples	29.10	739.1	29.63	752.6	45.4	7.4	78	sse.	24	10.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.27	743.4	29.67	753.6	47.6	8.7	65	sw			4		8			0.04	1.0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.03	762.7	30.06	763.5	80	26.7	62	e.			3		3					d. clouds	Corp'l C. McGregor, A.H.C
Cardington					48.4	9.1	74	sw.			3.0		4					d. clouds	John McLaren.
Chatham, School M. E.	29.74	755.4	29.91	759.7	53.1	11.7	59	sw.			4		5			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.45	748.0	29.68	753.9	48.6	9.2	94	s.			6		10					raining	The Staff.
Fort Napier, Natal	27.65	702.3	29.96	761.0	78.5	25.8	63	ne.			1		4					blue sky	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.15	740.4	29.19	741.4	44	6.7	76	se.			4		8			0.14	3.6	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.08	764.0	30.27	768.8	58.0	14.4	82	w.			3		6					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.71	754.6	29.88	758.9	52.0	11.1	60	wsw.					2					blue sky	The Staff.
Guernsey	29.54	750.3	29.84	757.9	50.0	10.0	82	ssw.			1		4			blank	blank	d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	29.85	758.2	29.88	758.9	49.6	9.8	65	sw	25	11.2			4					d. clouds	The Staff.
Leicester, Museum	29.51	749.5	29.76	755.0	50.5	10.3	62	sw.			4		5					d. clouds	J. C. Smith.
Malta, Mediterranean	30.11	764.8	30.19	766.8	52.6	11.4	84	ne.			3		2			0.02	0.5	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.18	766.6	74.0	23.3	90	s.			1		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.59	751.6	29.82	757.4	49.8	9.9	66	s.			6		5					d. clouds	The Staff.
Plymouth	29.67	753.6	29.74	755.4	48.8	9.3	89	s.			6		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.30	744.2	29.40	746.7	44.2	6.8	92						0					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.13	765.3	30.20	767.1	41.6	5.3	62	ne.			2		5					d. clouds	W. H. Lyne.
Sheffield	29.41	747.0	29.69	754.1	50.9	10.5	65	ssw.			4		3					d. clouds	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss					50.9	10.5	72	w.			3.6		4					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.28	743.7	29.30	744.2	45.8	7.7	62	sw.	31	13.9			10			blank	blank	misty	The Met'r'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.84	757.9	30.24	768.1	52.2	11.2	83	e.	5.6	2.5			10 n		e.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.08	761.5	30.02	762.5	10.0	−12.2		calm	0	0		10 ck	0	s.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.07	763.8	30.12	765.0	18	− 7.8	100	se.	11	4.9			10 n		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.99	761.7	30.06	763.5	0	−17.8	100	e.	1	0.4			10 s		e.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.03	737.3	30.22	767.6	40.5	4.7	81	s.			3		10 s			0.195	5.0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.95	760.7	30.00	762.0	3.0	−16.1		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	29.68	753.9	29.71	754.6	21	− 6.1	76	sw.	20	8.9		5 cs	2 s	sw.	sw.	0	0	cloudy	J. McWilliams
Fort Garry, Manitoba*	29.16	740.7	30.15	765.8	−26	−32.2	100	sw.	9	4.0		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	29.95	760.7	30.02	762.5	12.1	−11.1	79	calm	0	0			10 s			0	0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B.	29.92	760.0	29.98	761.5	32	0.0	85	s.	36	16.1			10 n		s.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	28.70	729.0	29.86	759.2	10.6	−11.9	96	nw.	12	5.4			10 n			0.210	5.3	snowing	Jas. Grant.
Halifax, N. S*	30.03	762.7	30.17	766.3	27	− 2.8	96	s.	7	3.1		10 k	0			0	0	cloudy	A. Allison.
Hamilton, Ontario	29.33	745.0	29.76	755.9	15.9	− 8.9	82	sw.			3	6	4 ks			0.490	12.4	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.06	738.1	29.40	746.7	28	− 2.2	92	w.	30	13.4			10 ks			inap	inap.	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.10	764.5	30.14	765.5	27.0	− 2.8	88	sw.	3	1.3		6 cs	0			0	0	fair	C. H. Rigby.
London, Ontario	28.94	735.1	29.92	760.0	13.8	−10.1	80	n.			4	7 k	0			0.03	0.8	d. clouds	E. B. Reed.
Medicine Hat, N. W. T.	27.50	698.5	30.13	765.3	−16	−20.7	95	n.	0	0			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	27.87	707.9	30.19	766.8	−33	−36.1	100	nw	5	2.2		0	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	29.16	740.7	29.37	746.0	35	1.7	92	s.	12	5.4			10 n			0.29	7.4	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.00	736.6	29.22	742.2	30.1	3.9	86	s.					10 ks			0.210	5.3	overcast	A. McCill, M. A.
Parry Sound, Ontario*	28.83	732.3	29.57	751.1	14	−10.0	83	w.	56	25.1			10 n		w.	0.35	8.9	light snow	Rev. R. Mosley.
Peterboro, Ontario	28.76	730.5	29.54	750.3	16.6	− 8.6	77	sw.			6	0	8 k			0.21	5.3	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.34	745.2	30.15	765.8	−11	−23.9	78	s.	6	2.7		0	0			0.07	1.8	clear	W. P. Cooke.
Port Dover, Ontario	29.10	739.1	29.84	757.0	17	− 8.3	83	w.	23	10.3			10 n		sw.	0.34	8.6	threatening	[illegible] Morgan.
Port Stanley, Ontario	29.21	741.9	29.90	759.4	18	− 7.8	80	w.	36	16.1		0	5 k		nw.	0.15	3.8	fair	M. Payne.
Qu'Appelle, N. W. T	27.53	699.2	30.15	765.8	−30	−34.4		sw.	4	1.8		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.18	741.2	29.58	750.6	27	− 2.8	92	e.	12	5.4			10 s		ne.			sleeting	Capt. Asse, R. N.
Rockliffe, Ontario*	28.75	730.2	29.22	742.2	33	0.6	81	w.	40	17.9			10 s		w.	0.56	14.2	cloudy	W. H. McIntyre.
St. Andrews, N. B.	29.91	759.7	29.97	761.2	31	− 0.6	96	s.	15	6.7			10 n			0	0	cloudy	
St. John, N. B	29.87	758.7	30.02	762.5	27.9	− 2.3	89	s.	24	10.7			10 n			0.030	0.8	overcast	G. Hutchinson.
St. Pierre, N. F.			30.16	766.0	28.4	− 2.0		w.			2								The Commandant.
Saugeen, Ontario*	29.06	738.1	29.84	757.9	0	−12.8	100	nw.	50	22.3			10 s			0.57	14.5	light snow	
Stratford, Ontario	28.49	723.6	29.89	759.2	8.2	−13.2	76	w.	45	20.1			10 s			0	0		W. McBride, M.A.
Sydney, C. B*	30.18	766.6	30.25	768.3	3	−16.1	100	calm	0	0		2 c	0			0	0	clear	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.32	744.7	29.73	755.1	18	— 7.8	67	w.	35	15.6			10 n		w.	0.12	3.0	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.72	729 5	29.87	758 7	13.6	—10.2	85	w.	38	17.0		0	9 s			0.050	1.3	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.99	761.7	30.07	763.8	32	0.0	88	s.	13	5.8			10 s		se.	inap.	inap.	snowing	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.99	761.7	30.02	762.5	75.5	24.2	81	ne.				0	2 k			0.060	1.5	fine	I. Garfelt.
Cape Town, The Castle	29.84	757 9			81.0	27 2	44	ne.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.81	706.4			88	31.1	38									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.87	758.8	29.95	760.7	61.3	16.3	93	e.			2	10						cloudy	Samuel Redolez.
Iquique	29.94	760.5	29.97	761.2	68.0	20.0	76	sw.			2							cloudy	Rafael Moreno.
Niebla	29.61	752 1	29.72	754.8	54.7	12.6	88	e.			2		1 n		w.	0	0		Federico Köhling.
Punta Caldera	29.91	759.7	30.00	761.9	64.4	18.0	88	nw.			1	10 c		nw.	nw.			cloudy	Manuel Tobar.
Punta Corona	29.92	760.0	30.11	764.7				sw.			1	1 n		w.		0.039	1.0	clear	Francisco Alvarado.
Valparaiso	29.81	757.2	29.95	760.7	60.1	15.6	88	s.			0	0	0					clear	Paez-I-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.28	769.0	30.30	769 6	43.5	6.4	88	nne.	4.9	2.2			10			0	0	covered	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.88	758 9	29.93	760.1	38.8	3.8	100	nw.	11	5			10					foggy	Oversergent Fischer.
Fanöe	29.90	759.5	29.92	760.0	42.4	5.8	99	wsw.			2		10					hazy	Overloerer Lauridsen.
Godthaab, Greenland	29.56	750.9	29.61	752.0	— 1.5	—18.6	100	se.			2		1						S. Kleinschmidt.
Ivigtut, Gree land	29.63	752.5	29.65	753 0	1.2	—17.1		calm			0		0						
Jacobshavn, Greenland	29.71	754.6	29.76	755.8	— 1.5	—18.6		calm			0		1						
Stykkisholm, Iceland	29.23	742.5	29.28	743.6	30.6	— 0.8	90	nw.			4		10					snowing	A. O. Thorlacius.
Thorshavn	29.34	745.3	29.37	745 9	43.2	6.2	90	se.	22	10			10					raining	Overloerer Bergh.
Upernavik, Greenland	29.71	754.5	29.75	755.7	1.2	—17.1		calm			0		8						
Vestervig	29.76	755.9	29.85	758.2	35.1	1.7	93	e.			4		10					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	29.85	758.1			73.4	23.0		sw.	7.8	3.5						inap.	inap.		Albert Ismatun.
French.																			
Agen, Normal School	29.55	750.6	30.21	767.4	47.8	8.8	100	s.			1		10	sw.	sw.	0.08	2.	light rain	M. Labroue, Director.
Alençon, Normal School	29.49	749.1	30.04	763.1	51.1	10.6	77	sw.			1		2 k		ne.	0.087	2.2	slightly cl'dy	M. Nicot, Director.
Arras, Normal School	29.69	754.2			51.3	10.7	82	s.			2		2		ssw.	0.008	0.2	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	30.13	765 4	30.21	767.4	55.4	13	38	e.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.58	751.2	30.14	765.5	48.7	9 3	60	s.			1		10		sw.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.78	756.4	30.05	763.3	52.0	11.1	73	s.			1		5		sw.	0.028	0.7	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.22	742.2	30.08	764.0	53.6	12	52	sw.			1	c			ne.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.86	758.4	30.12	765.1	53.4	11.9	67	nnw.			1		5		nw.	0.772	19.6	cloudy	M. Rayet, Director.
Bourges, Normal School	29.58	751.3	30.14	765 5	48.2	9	92	sw.			1		n		sw.	0.083	2.1		M. Sauvageot, Director.
Brest, Naval Observatory	29.69	754.0	29.93	760.2	49.3	9.6	92	sw.			8		10		sw.	1.004	25.5		M. de Kermarée, Dir.
Caen, Normal School	29.90	759.4	29.97	761.3	53.6	12	95	s.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.79	756.7	30.12	765.0	49.1	9.5	81	sw.			2		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.58	751.2	30.10	764 6	41.7	5.4	94	s.			1		2		s.	0.039	1.0	¼ covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.75	730.3	30.13	765.3	48.2	9.0	61	s.			2		10			0	0		M. Alluard, Director.
Cluny, Normal School	29.14?	740.1?	29.99?	761.8?	50.0	10.	62	se.			1		5		se.	0	0	cloudy	M. de Villemontée, Dir.
Commercy, Normal School	29.27	743.5	30.16	766.1	46.9	8.3	71	s.			4		5 kn	s.	s.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.61	701.2	30.21	767.3	41.9	5.5	63	se.			1		5 kn			0	0		M. Jarach, Director.
Grénsque, du Rhone	29.05	737 8	30.19	766.9	49.8	9.9	42	e.			4		9		e.	0	0		M. Kinn, Director.
Grenoble, Normal School	29.42	747.2	30.24	768.0	46.8	8.2	61	wsw.			1	ck				0	0		M. Ablard, Director.
Guéret, Normal School	28.53	724.7	30.11	764 8	45.1	7.3	83	sw.			4		10 n		sw.	0.126	3.2	raining	M. Delorme, Dir.
Lescar, Normal School	29.62	752.3	30.19	766.8	48.4	9.1	75	ene.			1		10		w.	1.024	26.0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.88	759.0	29.98	761 6	52.9	11.6	67	wsw.			4		8	ne.	sw.	0.071	1.8	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.11	739.4	30.19	766.9	46.4	8.0	58	sse.			1		8 n			0	0	very cloudy	M. André, Director.
Mans, Normal School	29.75	755.7	30.06	763 6	50.9	10.5		sw.			4		8 kn		w.	0.098	2.5	very cloudy	M. Richard, Director.
Marseille, Observatory	29.89	759.3	30.17	766.2	54.3	12.4	79	se.			2		10		s.	0	0		M. Stephan, Director.
Montlouis	24.79	629.7	29.63	752.7	31.5	— 0.3	86	ne.	15.0	6.7			10	ne.		0.957	24.3		M. Cave for Dr. Fines.
Montpellier, Normal School	30.02	762.6	30.13	765 4	48.9	9.4	81	sse.			2		5		ene.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.36	745.7	30.15	765 8	49.3	9.6	54	s.			1		cn			0	0		M. Husse, Director.
Nantes, Observatory	29.92	759.9	30.08	764.0	55.4	13.0	59	ssw.			1-2		5 k; kn		sw.	0.264	6.7		M. Larocque, Director.
Perpignan, Observatory	30.02	762.4	30.13	765 3	48.9	9.4	97	se.	11.2	5.0			10		e.	2.244	57.0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.09	535 7			18.7	— 7.4		ne.			2		5		ne.	0.787	20.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.11	739.4	30.21	767.2	47.1	8.4	57	n.			1		n	ne.	ne.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25 17	639.3			31.8	— 0.1	98	sw.			2		10			0.012	0.3	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.09	764.2	30.12	765 0	54.3	12.4	70	sw.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.82	757 5	30.04	763.0	51.1	10.6	75	s.			6				se.	0.283	7.2		M. Brotier, Director.
Rodez, Normal School	27.99	710 9	30.19	766.8	43.3	6.3		nw.			1		5		nw.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.99	761.8	30.04	763 0	54.3	12.4	74	sse.			1		5	sse.		0.059	1.5	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.92	760.0	30.09	764 2	48.4	9.1	86	ssw.			2		10		sw.	0.031	0.8	covered	M. Renou, Director.
Toulouse, Observatory	29.43	747.5	30.15	765 9	44.2	6.8	100	sw.			1		10	w.		0.858	21.8	covered	M. Baillaud, Director.
Tours	29.92	760.0	30.10	764.6	55.0	12.8	70	ese.			1		8	ssw.	s.	0.508	12.9	very cloudy	M. de Tastes.
Versailles, Observatory	29.58	751.3	30.07	763.8	51.4	10.8	73	sw.			1		0			0.016	0.4	clear	Dr. A. Bergny, Director.
Sub-series.																			
St. Martin du Hinx	30.02	762.4	30.17	766.2	53.1	11.7	69	nw.	11.9	5.3			7 k		w.	1.315	33.4		M. Cartier, Director.
German.																			
Ansbach	28.66	727.9	30.12	765.1	50.4	10.2	35	sw.			2		0			0	0		Prof. Jnedt.
Bamberg	29.26	743.1	30.10	764.6	45.1	7.3	46	e.			1		1 s			0	0		Prof. Dr. Hoh.
Berlin	29.87	758.8	30.02	762.5	47.1	8.4	50	s.			2		10			0	0		Meteorological Institute
Breslau	29.58	751.2	30.11	764.7	44.8	7.1	40	sw.			2		1	wnw.		0	0		Royal University Obs'y
Carlsruhe	29.69	754.0	30.15	765.9	48.6	9.2	56	sw.			2		0			0	0		Albert Senz.
Cassel	29.34	745.2	30.05	763.3	49.6	9.8	56	s.			3		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.74	755.5	30.12	765.1	48.0	8.9	59	s.			1		0			0	0		Physical Society.
Friedrichshafen	28.74	730.0	30.22	767.5	37.6	3.1	84	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.91	759.8	30.00	762 1	45.5	7.5	79	wsw.			3		7			0.008	0.2		E. Preifer.
Kiel	29.95	760.7	29.97	761.1	44.8	7.1	83	wsw.			1		2			0.035	0.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.65	753.0	30.07	763.8	47.8	8.8	55	ssw.			2		1			0	0		H. Leppig, Asst.
Magdeburg	29.82	757.5	30.01	762.3	56.1	13.4	49	sw.			1		6	wsw.		0	0		Weather Observatory.
Memel	29.91	759.7	29.96	760 9	36.3	2.4	91	sw.			4	10 cs						rain & snow	Issermann.
Munich	28 30	718.9	30.17	766.4	48.7	9.3	23	nw.			1		0			0	0		Central Station.
Neufahrwasser	29.95	760.6	29.96	761.0	38.7	3.7	69	s.			2		10					raining	A. Lothes.
Neustadt, Palatinate	29.56	750.8	30.09	764 2	50.9	10.5	55	sw.			3		4	sw.		0	0		Prof. Dicknether.
Stuttgart	29.17	740.9	30.08	764.0	47.3	8.5	60	e.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	29.93	760.1	29.95	760.8	41.4	5.2	87	sw.			2		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.76	756.0	30.16	766.1	45.7	7.6		n.			2.0	0	9			0.004	0.1		Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.06	763.6	30.12	765.0	73.5	23.1	64	nne.	6.0	2.7			6		wsw.	0	0	d. clouds	
Deesa	29.54	750.2	30.01	762.3	81.1	27.3	30	wnw.	11.0	4.9			0			0.02	0.5	blue sky	
Bombay	29.96	761.0	30.00	762.0	77.4	25.2	71	nnw.	22.0	9.8			9	w.		0	0	d. clouds	
Poona, Yarrowda	28.11	714.1	29.95	760.8	85.5	29.7	22	nw.	21.0	9.4			9			0	0	d. clouds	
Belgaum	27.43	696.7	29.94	760.4	84.1	28.9	27	calm	2.0	0.9			4	w.	e.	0	0	gloomy	
Lahore	29.29	744.0	30.06	763 5	69.2	20.7	42	nw.	2.0	0.9			0			0	0	blue sky	
Roorkee	29.08	738.5	29.99	761.8	71.7	22.1	30	w.					0			0	0	blue sky	
Agra	29.50	749.3	30.08	764 0	73.2	22.9	51	nw.	2.0	0.9			4		w.	0.02	0.5	d. clouds	
Nagpur	28.88	733.7	29.92	760.0	85.2	29.6	30	sw.	8.0	3.6			7		w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.63	727.1	30.00	762.0	75.6	24.2	40	nw.	6.0	2.7			8		w.	0	0	d. clouds	
Lucknow	29.66	753.3	30.05	763.2	67.3	19.6	62	nne.	5.0	2.2			4	wnw.				raining	
Allahabad	29.71	754.5	30.02	762.6	74.8	23.8	54	calm	0	0			0			0	0	blue sky	
Patna	29.80	757.0	29.99	761.8	74.0	23.8	38	w.	2.4	1.1			10	w.	w.	0	0	overcast	
Hazaribagh	27.96	710.2	30.02	762.4	69.6	20.9	33	nnw.	4.0	1.8			7	nw		0	0	d. clouds	
Cuttack	29.92	759.8	30.00	761.9	80.8	27.1	57	sw.	1.0	0.4			4			0	0	d. clouds	
Calcutta, Alipore	29.96	761.0	29.98	761.6	74.7	23.7	44	nnw.	3.5	1.6			3	sw.	sw.	0	0	d. clouds	
Dhubri	29.86	758.5	29.98	761.6	71.9	22.2	53	calm	0	0			9		w.	0	0	d. clouds	
Chittagong	29.91	759.8	30.01	762.1	71.6	22.0	76	w.	3.3	1.5			7			0	0	d. clouds	
Sibsagar	29.69	754.1	30.04	763.0	62.4	16.9	86	ne.	2.0	0.9			4		w.	0	0	blue sky	
Jeypore	28.59	726.2	30.06	763.6	72.3	22.4	51	nw.	7.5	3.4			5		nw.	0.03	0.8	d. clouds	
Zanzibar	29.90	759.4	29.92	760.0	88.7	31.5	59	ene.	7.4	3.3			2		w.	0	0	d. clouds	
Bellary	28.48	723.4			88.0	31.1	22	e.	6	2.7		0	0			0	0	blue sky	
Trichinopoly	29.74	755.4			86.8	30.4	32	ne.	0.2	0.1		3	3			0	0	d. clouds	
ITALIAN.																			
Udine	29.85	758.2	30.28	769.0	47.5	8.6	28	sw.	1.3	0.6			0			0	0		Prof. Giovanni Olodig.
Milan	29.76	755.9	30.30	769.6	42.8	6.0	45	nw.	3.1	1.4			2			0	0		Prof. G.V.Schiapparelli
Padua	30.16	766.1	30.28	769.0	44.2	6.8	33	sw.	0.7	0.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.34	745.1	30.28	769.0	45.7	7.6	40	nw.	1.8	0.8			2	nw.		0	0		Prof. F. F. Denza.
Genoa	30.07	763.7	30.47	768.7	49.1	9.5	43	s.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.26	768.5	30.31	769.8	41.4	5.2	51	n.	4.9	2.2			0			0	0		Prof. Luigi Guidi.
Florence	30.00	762.1	30.27	768.8	44.6	7.0	38	ne.			2		0			0	0		Prof. Costantino Pittei.
Leghorn	30.11	764.9	30.19	766.7	48.9	9.4	42	ne.	8.7	3.9			0			0	0		Prof. P. Monte.
Rome	30.07	763.8	30.25	768.3	49.5	9.7	38	n.	2.5	1.1			0			0	0		Prof. P. Tacchini.
Lecce	29.97	761.2	30.23	767.8	49.3	9.6	49	n.	15.0	6.7			1			0	0		Prof. C. de Giorgi.
Cosenza	29.33	745.0	30.25	768.3	47.8	8.8	73	wnw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.96	760.9	30.21	767.4	54.3	12.4	66	ne.	3.1	1.4			10	wnw.		0.106	2.7		Prof. G. Caccialore
Syracuse	30.19	766.7	30.23	767.8	50.7	10.4	71	nne.	7.4	3.3			10	nne.		0.532	13.5		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.70	754.4	30.24	768.1	49.5	9.7	52	e.	1.8	0.8			1			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.23	767.8	30.26	768.7	32.0	0.0	92	w.			4		10 k		w.	0.043	1.1	cloudy	H. Hattori.
Awomori	30.15	765.8	30.18	766.6	28.6	— 1.9	66	w.	11.9	5.3		0	2 s			0.107	2.7	fair	K. Ogawa.
Hakodate	30.16	766.1	30.17	766.4	30.8	— 0.7	81	nw.	9.0	4.0		0	9 s			inap.	inap.	overcast	Y. Souma.
Hamamatsu	30.16	766.0	30.26	768.5	37.9	3.3	63	w.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.29	769.5	30.31	769.9	37.5	3.1	82	n.	4.9	2.2		2 cs	0			0	0	clear	Y. Okamoto.
Kagoshima	30.24	768.1	30.25	768.3	52.9	11.6	60	n.			2	0	3 s			0.016	0.4	fair	
Kanazawa	30.26	768.5	30.36	771.3	31.0	1.1	74	e.	6.3	2.8		2 ck	5s;ks			0	0	cloudy	S. Endo.
Kioto	30.17	766.3	30.34	770.7	31.3	— 0.4	77	nnw.	1.7	0.7		0	0			0	0	clear	M. Tojima.
Kochi	30.29	769.2	30.31	769.7	44.0	6.7	85	e.	5.5	2.4		3 ck	0			0	0	clear	K. Kusunose.
Miasaka	30.26	768.5	30.28	769.2	43.1	6.2	85	nne			1	0	5 s		w.	0	0	fair	K. Masusaki.
Miyako	30.07	763.7	30.18	766.5	28.8	— 1.8	56	calm	0	0		0	0			0	0	clear	N.Honno & K.Suwa.
Nagasaki, I. M. Obs'y	30.04	763.0	30.25	768.3	40.4	4.7	82	calm	0	0		0	0			0	0	misty	
Nemuro	29.99	761.7	30.04	763.0	24.0	— 4.4	64	nw.	12.0	5.4			10 s			0	0	cloudy	A Shibuya.
Niigata	30.29	769.3	30.32	770.1	30.7	2.6	62	w.	15.1	6.7			10 ks		w.	0	0	cloudy	Satoo & Tomikawa.
Nobiru	30.20	767.2	30.22	767.6	31.6	— 0.2	86	nw.	13.8	6.2		0	1 s			0	0	fair	Yoshino & Midzushina.
Numadzu	30.22	767.6	30.26	768.6	38.1	3.4	74	ene.			2	0	2 s			0	0	clear	T. Ohgi.
Osaka	30.33	770.4	30.35	770.8	34.9	1.6	74	ne.	3.7	1.6		0	0			0	0	clear	H. Omura.
Sakai	30.30	769.7	30.31	769.9	41.4	5.2	68	e.			4	0	0			0	0	clear	Yamawchi & Sakamoto.
Sapporo	30.08	764.1	30.15	765.8	26.8	— 2.9	98	n.	6.0	2.7			10 n			0.110	2.8	snowing	S. Kimura.
Shimonoseki	30.12	765.1	30.27	768.8	40.9	4.9	83	se.			1	0	0			0	0	clear	S. Sakano.
Wakayama	30.28	769.1	30.33	770.5	38.8	3.8	63	e;ene	5.5	2.5		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.80	756.9	29.99	761.7	81.0	27.2	72	ene.	11.5	5.1		0	7 k		ene.	0.06	1.5	fair	The Staff.
MEXICAN.																			
Leon	24.45	621.0	30.32	770.1	45.3	7.4	74	wnw.	0.9	0.4		5 c	0			0	0	fair	M. Leal & M. Pina
Mazatlan	29.82	757.4	30.08	764.1	64.0	17.8	83	nw.	5.3	2.3		0	0			0	0	light fog	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.00	762.0	30.00	762.0	48.7	9.3		ssw.			4					0	0		
Groningen	29.98	761.4	30.03	762.8	45.5	7.5		wsw.								0.059	1.5		
Helder	29.95	760.7	29.95	760.7	45.5	7.5		ssw.			4					0	0		
Hellevoetsluis	29.98	761.6	29.98	761.6	49.1	9.5	86	ssw.			2					0.024	0.6		
Utrecht	29.96	760.9	30.01	762.3	49.8	9.9	81	ssw.			2		8			0.004	0.1	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.86	758.5			79.3	26.3	90	n.	0	0			5			0.071	1.8		Lt.J.J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.75	755.6	29.81	757.2	32.0	0.0	74	calm	0	0			2			0	0		
Brono	29.81	757.1	29.85	758.1	32.4	0.2	96	calm			0		0			0	0		
Christiania	29.78	756.4	29.94	760.4	23.0	— 5.0	71	calm	0	0			5			0	0	foggy	
Gjæsvær	29.78	756.3	29.80	756.9	31.6	— 0.2		calm			0		8			0	0		
Lodingen	29.79	756.6	29.84	757.8	35.1	1.7	88	sw.			3		10			0.004	0.1	foggy	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr.A.M.R.dos Santos.
Funchal, Madeira	30.23	767.9	30.32	770.2	60.6	15.9	46	ene.	4.9	2.2			5	n		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.95	760.6	30.29	769.3	53.2	11.8	59	ssw.	7.4	3.3			8			0.063	1.6		The Staff.
Ponta Delgada, Azores	29.96	761.0	30.03	762.8	57.6	14.2	86	wsw.	27.3	12.2			10			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.00	761.9	30.03	762.7	68.9	20.5	72	ene.			4		10					rain & fog	
San Salvador, Congo	28.04	712.1	29.82	757.5	89.8	32.1	49	e.			1		4			0	0		
Serra da Estrella	25.37	644.4	30.32	770.0	30.7	— 0.7	100	ssw.	12.5	5.6			8			0.114	2.9	foggy	
RUSSIAN.																			
Akmolinski	28.66	727.9	29.83	757.7	7.7	—13.5	92	w.	9	4			10 n			0.008	0.2		Major K. Lasarew.
Archangel	29.90	759.4	29.92	759.9	1.0	—17.2	70	ene.	4	2		0	0			0	0		Capt. Sselliwerstow
Ashurada	30.41	772.5	30.32	770.1	44.8	7.1	77	n.	11	5			9 kn			inap.	inap.	h'vy clouds	Capt. Wisganow.
Astrakhan	30.20	767.0	30.12	765.0	27.1	— 2.7	81	wsw.	20	9			10 ks						
Baku	30.33	770.4	30.28	769.2	38.1	3.4	78	calm	0	0		0	2 ks			0	0		
Barnaul	29.25	743.0	29.76	756.0	33.6	0.9	47	s.	4	2			9			0.035	0.9	light clouds	Meteorological Office.
Bielosersk	29.41	746.9	29.91	759.6	22.5	— 5.3	67	calm	0	0			10 ks			0.020	0.5	light snow	
Dorpat	29.68	753.9	29.94	760.4	30.6	— 0.8	77	s.	2	1			10 n			0	0		Observatory.
Ekaterinburg	28.57	725.6	29.62	752.4	— 1.5	—18.6	75	w.	9	4			10			blank	blank	light clouds	Meteorolorical Obs'y
Elissawetgrad	29.75	755.7	30.23	767.9	27.7	— 2.4	83	nw.	7	3			10 s;n			0	0		
Kazan	29.31	745.3	29.63	752.7	13.5	—10.3	87	nw.	2	1			10			0	0		Observatory.
Kem	29.87	758.8	29.03	760.1	21.7	— 5.7	87	calm	0	0			10			0	0	h'vy clouds	
Kertch	30.24	768.0	30.26	768.6	31.8	— 0.1		w.	4	2			10 n			0	0		Lagorio & Sastyres
Kieff	29.47	748.5	30.14	765.6	26.6	— 3.0	78	nw.	7	3			10 n			0	0		Observatory.
Koslov	29.30	744.1	29.82	757.5	27.5	— 2.5	75	wnw.	16	7			10 s			0	0		
Lgov	29.46	748.3	30.08	764.0	27.7	— 2.4	85	w.	13	6			10			0.004	0.1	light snow	R.I.Ssaweljew, Engin'r.
Libau	29.88	758.9	29.90	759.5	30.5	2.5	85	ssw.	9	4			10			0	0		[illegible]
Lugan	29.84	757.8	30.05	763.3	28.0	— 2.2	63	wsw.	22	10			10			0.004	0.1		Meteorological Obs'y
Moscow	29.37	745.9	29.87	758.7	27.5	— 2.5	82	n.	4	2			9 ks			0	0		Meteorological Obs'y
Nertschinsk	26.18	715.8	30.75	78..1	1.4	—17.0	73	calm	0	0			0			0	0		
Nikolaiev	30.18	766.6	30.25	768.4	31.5	— 0.3	68	nw.	4	2			10 n			0	0	light clouds	Capt. Kurdakow.

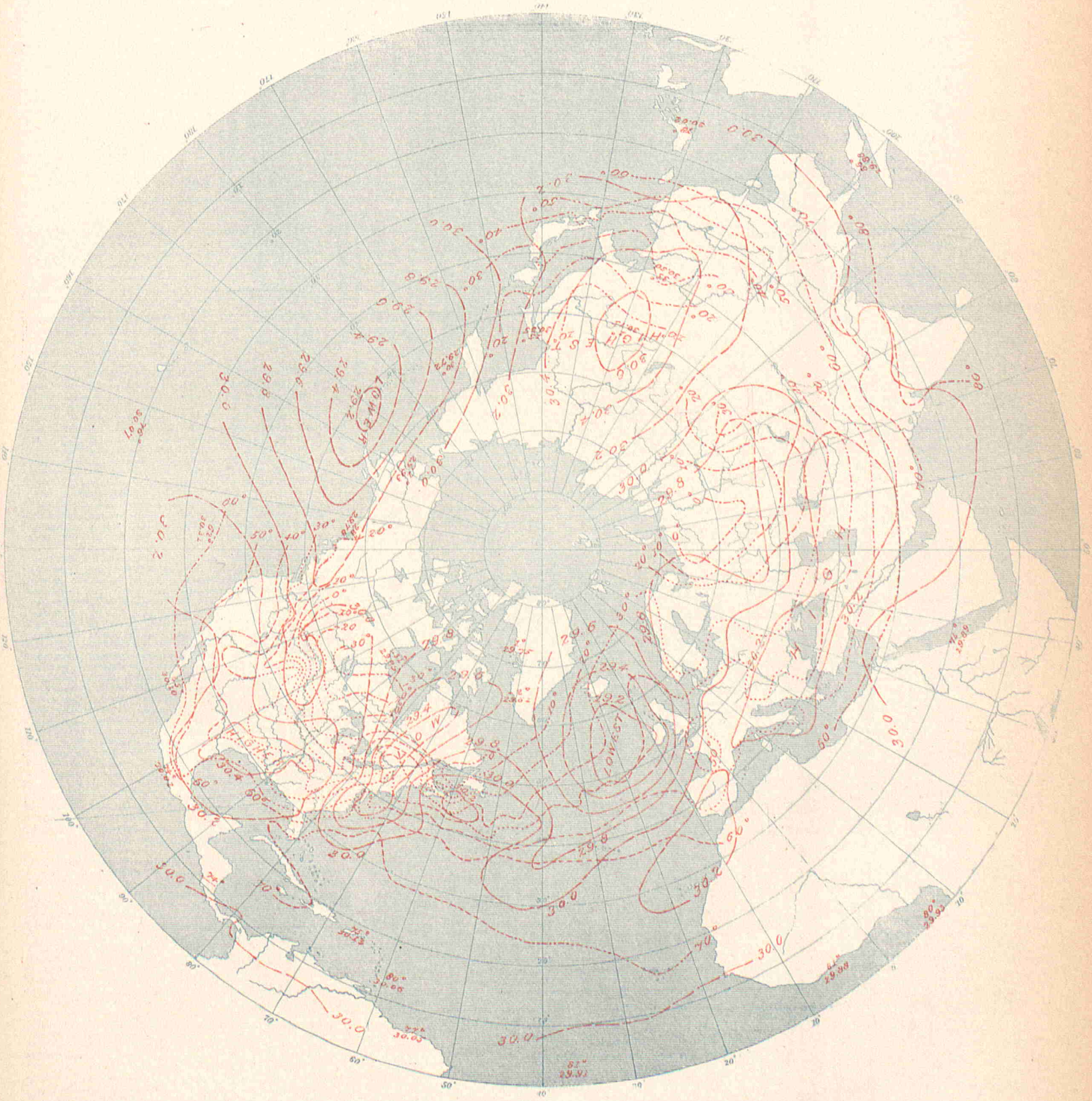
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	30.26	768.6	30.35	770.8	15.3	— 9.3	77	w.	2	1			10 n						Iwanow.
Pekin, China	30.36	771.1	30.50	774.7	32.7	0.4	32	nw	10.1	4.5		0	0						Siang.
Petro-Alexandrovsk	30.01	762.3	30.39	771.8	31.6	— 0.2	43	calm	0	0			8						Walter.
Petrozavodsk	29.69	754.0	29.89	759.3	25.2	— 3.8	89	ese.	11	5			10			0.075	1.9	light clouds	Dr. Bergmann.
Pinsk	29.65	753.2	30.17	766.4	33.4	0.8	71	w.	4	2		0	0			0	0		
Poti	30.27	768.8	30.30	769.6	40.8	4.9	86	calm	0	0			0			0.079	2.0		
St. Petersburg	29.94	760.4	29.96	761.0	24.8	— 4.0	82	nw.	4	2			10 n			inap	inap.		Central Physical Obs'y.
Samarkand	27.71	703.9	30.32	770.0	30.9	— 0.6	98	calm	0	0			10 n					snowing	Dresch.
Semipalatinsk	29.08	738.7	29.77	756.2	26.1	— 3.3	82	s.	45	20			10			0.079	2.0		Major Lasarew
Sevastopol	30.06	763.6	30.29	769.3	33.6	0.9	68	sw.	7	3			10 n			0	0	h'vy clouds.	
Staroi Bykhov	29.50	749.3	30.09	764.2	28.0	— 2.2	73	ssw.	9	4			9			0	0		Carl Hagen.
Tashkend, Laboratory	28.51	724.1	30.30	769.7	24.8	— 4.0	100	nw.	11	5			10 n					heavy cl'ds.	Terch, A. M
Tiflis	28.82	731.9	30.30	769.7	35.1	1.7	55	n.	18	8		0	6 ks			0	0		Physical Observatory.
Vernoe	27.34	694.5	29.94	760.4	32.0	0.0	69	sw.	18	8		0	7 k						Sariono.
Viatka	29.00	736.5	29.68	753.9	5.9	—14.5	63	n.	4	2			10			blank	blank		
Vladivostock	30.32	770.1	30.39	771.8	13.1	—10.5	63	n	27	12			0			0	0		
Warsaw	29.68	753.8	30.11	764.9	41.2	5.1	57	sw.	9	4		0	2 ks					light clouds	Astronomical Obs'y.
Yeniseisk	29.78	756.4	30.09	764.2	18.9	— 7.3	73	se.	9	4			10			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.23	742.4	29.75	755.6	27.1	— 2.7	74	wnw.	27.2	12.2			10 ks		nw.	0	0	cloudy	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.84	757.8	30.03	762.8	53.8	12.1	94	ne.					10sk;n			0.694	17.6	covered	B. J. Elin.
Bilbao, Met. Obs'y	30.09	764.2	30.15	765.7	54.1	12.3	55	se.	1.8	0.8		2	2	ne.		0.094	2.4	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.19	690.6	30.26	768.7	40.5	4.7	68	w.	7.4	3.3		0	3			0.339	8.6	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.93	709.4	30.21	767.4	47.1	8.4	51	nw.	11.4	5.1		0	6			0	0	clouds	The Staff.
Murcia, Met. Obs'y	29.98	761.6	30.11	764.8	58.3	14.6	60	nw.	6.0	2.7		2	3	e.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.15	740.3	30.06	763.5	47.8	8.8	80	s.	16.8	7.5			10			0.185	4.7	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.10	764.6	30.17	766.3	65.9	18.8	91	ese.	0.4	0.2		0	k;s			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.96	761.0	30.02	762.4	78.0	25.6	74	ese.	12.1	5.4		0	ks			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.25	768.4	30.36	771.0	53.4	11.9	66	w.	8.2	3.7		0	1		w.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.04	762.9	30.13	765.2	74.5	23.6	79					7 s	2 kn	w.	ne.	0.071	1.8	d. clouds	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.87	758.8	29.91	759.8	22.5	— 5.3	98	calm			0		10			0	0		
Umea	29.89	759.2	29.94	760.5	18.7	— 7.4	100	sw.			2		10			0	0		
Hernosand	29.90	759.5	29.95	760.8	18.0	— 7.8	83	calm			0		3			0	0		
Stockholm	29.70	754.3	29.87	758.8	23.0	— 5.0	95	n.			2		10			0	0	foggy	
Wisby	29.76	756.0	29.82	757.5	34.5	1.4	89	s.			4		10			0	0		
Sub-series.																			
Upsala	29.80	757.0	29.89	759.2	21.2	— 6.0	99	nne.	6.7	3.0			10		nne.	0	0		H. H. Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.24	768.0	39.0	3.9	66	nne.	15	6.5			5		ne.	0	0		The Observatory.
Valona			30.21	767.3	53.1	11.7		nw.			1		2			0	0	¼ covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.96	761.0	53.1	11.7	80	nw.			1		10 n		sw.	0.08	2.0		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.35	745.5	29.44	747.8	43.3	6.3	89	sw.	8	3.6			10 n			0.22	5.6	light rain	J. O. Barnes.
Alpena, Michigan	29.25	742.9	29.96	761.0	1.3	—17.1	72	w.	26	11.6		0	1 s			0.12	3.0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.17	639.3	30.27	768.8	26.6	— 3.3	78	se.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.92	683.8	29.96	761.0	—12.6	—24.8	100	e.	8	3.6			10 n			0.04	1.0	light snow	F. Newman.
Atlanta, Georgia	29.02	737.1	30.24	768.1	30.4	— 0.9	42	nw.	27	12.1		0	0			0.87	22.1	clear	S. W. Beall.
Atlantic City, New Jersey	29.41	747.0	29.42	747.3	47.0	8.3	93	s.	9	4.0			fg.			0.43	10.9	dense fog	B. A. Blundon.
Augusta, Georgia	29.92	760.0	30.12	765.0	43	6.1	60	w.	12	5.4		0	0			1.02	25.9	clear	W. J. Evans.
Baltimore, Maryland	29.54	750.3	29.59	751.6	51	10.6	52	w.	18	8.0		0	8 k		w.	0.80	20.3	clearing	Geo. W. Fisher.
Barnegat City, New Jersey	29.42	747.3	29.44	747.8	49.0	9.4	100	sw.	14	6.3			10n;fg			0.08	2.0	light rain	F. L. Johnson.
Bennett, Fort, Dakota	28.18	715.8	29.91	759.7	— 6.8	—21.6	91	e.	7	3.1			10 s			0	0	threatening	A. Pritchard.
Benton, Fort, Montana	27.06	687.3	30.06	763.5	—16.0	—26.7	100	calm	0	0			10 s		w.	blank	blank	cloudy	Thomas Morgan.
Bismarck, Dakota	27.99	710.9	29.97	761.2	—12.0	—24.4	90	e.	12	5.4			10 n		e.	0.01	0.3	light snow	B. O. Lenoir.
Block Island, Rhode Island	29.54	750.3	29.57	751.1	45.0	7.2	100	se.	32	14.3			10 n		se.	0.30	7.6	heavy rain	J. T. Elker.
Boise City, Idaho	27.07	687.6	30.03	762.7	41.2	5.1	86	sw.	1	0.4			10 s			0.03	0.8	cloudy	James Kenealy.
Boston, Massachusetts	29.54	750.3	29.70	754.4	33.0	0.6	100	se.	21	9.4			10 n		e.	0.10	2.5	light rain	O. B. Cole.
Brownsville, Texas	30.32	770.1	30.38	771.6	48.2	9.0	93	n.	4	1.8		0	0			0	0	clear	John McGlone.
Buffalo, New York	28.95	735.3	29.74	755.4	24	— 4.4	69	w.	32	14.3			10 n			0.02	0.5	light snow	Wm. Finn.
Buford, Fort, Dakota	27.70	703.6	29.91	759.7	—10.6	—23.7	86	ne.	16	7.2			10 n		ne.	0.01	0.3	light snow	A. Schneider.
Cairo, Illinois	30.02	762.5	30.44	773.2	27.5	— 2.5	70	nw.	5	2.2		0	0			0.42	10.7	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.82	757.4	30.02	762.5	36.3	2.4	86	s.	8	3.6		0	6 k			0.68	17.3	fair	J. H. Young.
Cape Henry, Virginia	29.56	750.8	29.58	751.3	60.0	15.6	81	sw.	12	5.4			10 ks		sw.	0.63	16.0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.60	751.8	29.03	752.6	44.0	6.7	76	nw.	15	6.7			8 s		nw.	0.95	24.1	cloudy	W. E. Smith.
Cape Mendocino, California	29.55	750.6	30.25	768.3	49	9.4	100	se.			6		fg.			0.16	4.1	dense fog	A. P. Leavitt.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	53.0	11.7	51	nw.	26	11.6		0	0			0.21	5.3	clear	G. W. Davis.
Charleston, S. Carolina	29.88	758.9	29.94	760.5	50.0	10.0	59	w.	24	10.7		0	0			0.30	7.6	clear	J. H. Smith.
Charlotte, N. Carolina	29.09	738.9	29.98	761.5	41.0	5.0	65	nw.	15	6.7		0	2 s		w.	2.10	53.3	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.52	749.8	30.38	771.6	29.5	— 1.4	50	n.	6	2.7		1 cs	0			0.76	19.3	clear	B. L. Goulding.
Cheyenne, Wyoming	23.82	605.0	30.09	764.3	31.7	— 0.2	45	w.	20	8.9		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.51	749.5	30.26	768.6	7.3	—13.7	71	w.	12	5.4		0	0			0.15	3.8	clear	Wm. Norrington.
Chincoteague, Virginia	29.50	749.3	29.52	749.8	52.3	11.3	94	s.	6	2.7			10 s		w.	0.65	16.5	cloudy	C. F. Dickens
Cincinnati, Ohio	29.57	751.1	30.26	768.6	25.3	— 3.7	81	nw.	12	5.4		0	0			1.13	28.7	clear	L. Dunne.
Cleveland, Ohio	29.24	742.7	30.03	762.7	21.0	— 6.1	84	w.	28	12.5		0	6 ks		w.	0.22	5.6	fair	W. Line.
Columbus, Ohio	29.23	742.4	30.13	765.3	22.2	— 5.4	73	sw	24	10.7		0	2 ks		nw.	0.54	13.7	clear	F. T. Williams
Concho, Fort, Texas	28.39	721.1	30.41	772.4	31.3	— 0.4	81	sw.	2	0.9		0	0			0	0	clear	C. E. King.
Custer, Fort, Montana	26.34?	669.0?	29.70?	754.4?	— 3	—19.4	79	n.	12	5.4		0	6 ks			0	0	fair	W. J. Daily.
Davenport, Iowa	29.58	751.3	30.28	769.1	3	—16.1	63	w.	4	1.8		3 cs	hz.	w.		0.12	3.0	clear	R. R. Martin.
Davis, Fort, Texas	25.35	643.9	30.31	769.9	37.8	3.2	65	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.25	717.5	30.07	763.8	20.5	— 6.4	100	w.	4	1.8			10 n			1.31	33.3	light snow	H. S. Blandford.
Deadwood, Dakota	24.92	633.0	29.84	757.9	34.0	1.1	78	sw.	18	8.0		5 k	0	w.		0	0	fair	G. Kingsbury.
Delaware Breakwater, Del.	29.44	747.8	29.49	748.3	52.5	11.4	100	sw.	15	6.7			10 n		sw.	0.93	23.6	light rain	G. A. Martin.
Denver, Colorado	24.58	624.3	30.10	764.5	43.5	6.4	48	w.	14	6.3		0	4 s			0	0	fair	F. M. Neal.
Des Moines, Iowa	29.24	742.7	30.21	767.3	1.5	—16.9	66	se.	6	2.7		5 cs	0	w.		0.03	0.8	fair	F. W. Conrad.
Detroit, Michigan	29.30	744.2	30.05	763.3	17.1	— 8.3	67	nw.	16	7.2		0	2 s		nw.	0.54	13.7	clear	N. B. Conger.
Dodge City, Kansas	27.34	694.4	30.03	764.0	30	— 1.1	78	s.	16	7.2		0	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.52	749.8	30.28	769.1	— 5.8	—21.0	32	sw.	6	2.7		2 cs	0			0.24	6.1	clear	J. Harvey Smith
Duluth, Minnesota	29.34	745.2	30.15	765.8	—14.0	—25.6	66	calm	0	0		0	0			0.04	1.0	clear	E. R. Brace.
Eastport, Maine	29.89	759.2	29.96	761.0	32.0	0.0	78	s.	18	8.0			10 s		s.	0	0	threatening	D. C. Murphy.
Elliott, Fort, Texas	27.28	692.9	30.18	766.6	28.5	— 1.9	81	s.	11	4.9		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.41	670.8	30.29	769.4	33.2	0.7	79	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.12	739.6	29.89	759.2	24.0	— 4.4	80	w.	24	10.7		0	8 s		w.	0.29	7.4	cloudy	C. A. Shaw.
Escanaba, Michigan	29.42	747.3	30.14	765.5	— 4.5	—20.3	65	w.	5	2.2		3 cs	0	n.		0.43	10.9	clear	L. M. Pindell.
Fort Smith, Arkansas	29.92	760.0	30.42	772.7	25.2	— 3.8	88	e.	1	0.4		0	0			inap.	inap.	clear	J. B. Campbell.
Galveston, Texas	30.43	772.7	30.46	773.7	45.6	7.6	45	ne.	5	2.2		0	0			0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.41	747.0	30.12	765.0	14.5	— 9.7	82	nw.	23	10.3			10 s		nw.	0.07	1.8	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.32	643.1	30.18	766.6	36.2	2.3	69	ne.	4	1.8		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.63	752.6	29.64	752.8	61.5	16.4	100	w.	20	8.9			10 n		nw.	0.50	12.7	light rain	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.34?	643.6?	29.69?	754.1?	17	— 8.3	83	w.	20	8.9			10 s			0	0	cloudy	S. W. Morrison.
Huron, Dakota	28.46	722.9	29.98	761.5	— 2.7	—19.3	62	e.	10	4.5		6 cs	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.44	747.8	30.29	769.4	14.3	— 9.8	63	nw.	10	4.5		0	0			0.59	15.0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.39	771.9	30.42	772.7	48.2	9.0	52	ne.	20	8.9		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	30.09	764.3	30.14	765.5	54.9	12.7	68	w.	20	8.9		0	0			0.14	3.6	clear	J. W. Smith.
Keokuk, Iowa	29.58	751.3	30.28	769.1	10.0	—12.2	75	se.	4	1.8		0	0			0.07	1.8	clear	F. Z. Gosewisch.
Key West, Florida	30.14	765.5	30.16	766.1	73.2	22.9	89	sw.	6	2.7		0	1 k		sw.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	29.60	751.8	29.62	752.3	58.5	14.7	86	sw.	14	6.3			10 ks		e.	0.94	23.9	cloudy	Wesley Blake.
Knoxville, Tennessee	29.24	742.7	30.32	770.1	27.3	— 2.6	55	nw.	12	5.4		1 c	0			0.47	11.9	clear	J. A. Cody.
La Crosse, Wisconsin	29.37	746.0	30.21	767.3	— 7	—21.7	67	sw.	2	0.9		0	0			0.03	0.8	clear	S. C. Emery.
Leavenworth, Kansas	29.26	743.2	30.21	767.3	23.6	— 4.7	42	s.	9	4.0		0	0			0.05	1.3	clear	T. S. Outram.
Lewiston, Idaho	29.25	742.9	30.12	765.0	34.0	1.1	72	se.	23	10.3			10 s			0.50	12.7	cloudy	C. E. Butler.
Little Rock, Arkansas	30.09	764.3	30.42	772.7	31.0	— 0.6	68	nw.	1	0.4		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.82	757.4	30.22	767.6	47.0	8.3	89	ne.	2	0.9		1 c	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.72	754.9	30.31	769.9	23.5	— 4.7	61	w.	21	9.4		0	0			1.20	30.5	clear	L. M. Dey.
Lynchburg, Virginia	29.03	737.3	29.75	755.6	43.0	6.1	47	nw.	19	8.5		1 k	0	nw.		0.92	23.4	clear	Jno. Healy.
Mackinaw City, Michigan	29.33	745.0	30.03	762.7	— 5.0	—20.6	83	w.	17	7.6		0	3 ks		w.	0.15	3.8	clear	D. B. Notson.
Macon, Fort, North Carolina	29.67	753.6	29.68	753.9	58.5	14.7	96	sw.	31	13.9		0	9 n		sw.	0.36	9.1	thund'r st'm	William Daly.
Maginnis, Fort, Montana	25.25	641.3	30.00	762.0	— 9.1	—22.8	61	sw.	4	1.8		0	0			0.12	3.0	clear	F. Burke.
Marquette, Michigan	29.34	745.2	30.12	765.0	— 6.3	—21.3	52	w.	8	3.6		0	0			0.11	2.8	clear	J. Gilligan.
Memphis, Tennessee	30.04	763.0	30.39	771.9	32.0	0.0	88	nw.	4	1.8		0	0			0.49	12.4	clear	D. T. Flannery
Milwaukee, Wisconsin	29.42	747.3	30.22	767.6	2.0	—16.7	74	nw.	13	5.8		0	0			0.16	4.1	clear	S. W. Rhode.
Mobile, Alabama	30.34	770.6	30.38	771.6	35	1.7	53	n.	12	5.4		0	0			0.06	1.5	clear	H. U. Jones.
Montgomery, Alabama	30.14	765.5	30.38	771.6	33	0.6	50	nw.	12	5.4		0	0			0.24	6.1	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.02	737.1	30.12	765.0	—20.5	—29.2	100	s.	3	1.3		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.19	589.0	29.81	757.2	20.2	— 6.6	100	se.	100	44.8			10n;fg		se.	0.36	9.1	light snow.	Edwd. A. Beals.
Nashville, Tennessee	29.80	756.9	30.41	772.4	29.5	— 1.4	76	w.	11	4.9		3 c	0	w.		1.03	26.2	clear	L. N. Jesunofsky
New Haven, Connecticut	29.37	746.0	29.49	749.0	46	7.8	100	se.	14	6.3			10 n			0.38	9.7	light rain	J. H. Sherman.
New London, Connecticut	29.53	750.0	29.58	751.3	44.7	7.1	100	e.	28	12.5			10 n		e.	0.70	17.8	heavy rain	J. G. Lynch.
New Orleans, Louisiana	30.31	769.9	30.37	771.4	40.5	4.7	43	ne.	14	6.3		0	0			inap.	inap.	clear	M. Herman.
New York, New York	29.26	743.2	29.45	748.0	45.4	7.4	100	se.	16	7.2			10n;fg			0.63	16.0	light rain	H. J. Penrod.
Norfolk, Virginia	29.56	750.8	29.59	751.6	61.0	16.1	78	w.	11	4.9		0	7 s		w.	1.12	28.4	fair	Wm. Davis.
North Platte, Nebraska	26.86	682.2	29.96	761.0	28.2	— 2.1	82	calm	0	0			10 s			0	0	cloudy	J. J. Mc Lean.
Olympia, Washington Ter	29.89	759.2	29.93	760.2	34.0	1.1	88	calm	0	0			10 s			0.79	20.1	cloudy	J. Dascomb.
Omaha, Nebraska	28.80	731.5	30.06	763.5	15.0	— 9.4	74	s.	8	3.6			10 s			0	0	cloudy	A. Pollak
Oswego, New York	29.21	741.9	29.56	750.8	30.0	— 1.1	83	w.	32	14.3			10 n		w.	0.03	0.8	light snow	J. G. Linsley.
Palestine, Texas	29.86	758.4	30.41	773.2	32.2	0.1	59	ne.	7	3.1		0	0			0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.33	770.4	30.36	771.1	36.2	2.3	48	n.	19	8.5		0	0			inap.	inap.	clear	M. McGauran.
Philadelphia, Pa	29.38	746.2	29.49	749.0	55.0	12.8	90	sw.	9	4.0			10s;ks		sw.	0.76	19.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.53	445.3	30.25	768.3	7.0	—13.9	83	w.	9	4.0			10 s		w	0	0	cloudy	H. Hall.
Pittsburg, Pennsylvania	29.00	738.1	29.92	760.0	29.5	— 1.4	77	w	15	6.7			10 n		w.	0.26	6.6	light snow	O. D. Stewart.
Poplar River, Montana					—13.8	—25.4	95	w.			2	0	0			0	0	clear	G. A. Garden.
Port Huron, Michigan	29.25	742.9	29.98	761.5	10.0	—12.2	87	w.	30	13.4		0	0			0.65	16.5	clear	M. H. Perry
Portland, Maine	29.72	754.9	29.77	756.1	37.0	2.8	85	se.	20	8.9			10 n		se.	0.01	0.3	light rain	W. W. Eichelberger.
Portland, Oregon	29.99	761.7	30.06	763.5	38.0	3.3	89	nw.	2	0.9		0	4 ks			1.71	43.4	fair	M. L. Hearne.
Prescott, Arizona	24.91	632.7	30.27	768.8	26.0	— 3.3	80	se.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.69	754.1	29.72	754.9	40.2	4.6	100	se.	30	13.4			10 n		se.	0.07	1.8	light rain	C. N. Kitchel.
Red Bluff, California	29.99	761.7	30.36	771.1	47	8.3	96	s.	6	2.7			10 ks		s.	0.12	3.0	cloudy	J. R. Williams.
Rio Grande City, Texas	30.23	767.8	30.48	774.2	45.8	7.7	64	n.	2	0.9		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	28.96	735.6	29.67	753.6	24	— 4.4	88	w	40	17.9			10 n		w.	inap.	inap.	light snow	E. W. McGann.
Roseburg, Oregon	29.60	751.8	30.17	766.3	48	8.9	93	sw.	8	3.6			10 s		sw.	0.28	7.1	cloudy	J. J. Naury.
Sacramento, California	30.28	769.1	30.35	770.9	46.5	8.1	93	se.	5	2.2			9 s		sw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.71	754.6	30.37	771.4	25.0	— 3.9	69	w.	6	2.7		hz.	0			0.03	0.8	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.89	759.2	29.93	760.2	— 1	—18.3	77	ne.	8	3.6		0	0			0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.25	742.9	30.18	766.6	—10.5	—23.6	100	calm	0	0		4 k	6 s	s.		0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.13	739.9	30.10	764.5	—26	—32.2	100	se.	2	0.9		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.63	651.0	30.19	766.8	40	4.4	65	n.	4	1.8			10 ks		sw.	0	0	cloudy	J. Craig.
San Diego, California	30.12	765.0	30.19	766.8	45.5	7.5	89	n.	1	0.4		0	0			0	0	clear	F. R. Day.
Sandusky, Ohio	29.32	744.7	30.04	763.0	20	— 6.7	70	w	37	16.5		0	3 ks		w.	0.52	13.2	clear	B. F. Hough.
Sandy Hook, New Jersey	29.42	747.3	29.45	748.0	50.3	10.2	93	s.	19	8.5			10 n		sw.	0.63	16.0	light rain	V. P. Chappel.
Sanford, Florida	30.05	763.3	30.10	764.5	65.0	18.3	68	nw.	10	4.5		0	0			0.04	1.0	clear	J. B. Maroury
San Francisco, California	30.28	769.1	30.35	770.9	50.6	10.3	89	sw.	4	1.8			10 s		sw.	0.11	2.8	cloudy	N. Gorom.
Savannah, Georgia	29.96	761.0	30.05	763.3	47	8.3	53	w.	17	7.6		0	0			0.33	8.4	clear	R. M. Geddings.
Shaw, Fort, Montana	26.19	665.2	30.04	763.0	—11	—23.9	100	nw.	2	0.9			10 n			0.24	6.1	light snow	A. L. Mathews.
Shreveport, Louisiana	30.23	767.8	30.41	772.4	34.0	1.1	63	ne.	1	0.4		0	0			0	0	clear	E. N. Meekins.
Sitka, Alaska	29.60	753.4	29.73	755.1	27.5	— 2.5	82	se	8	3.6			10 s		se.	0.10	2.5	cloudy	F. W. Fickett.
Smithville North Carolina	29.74	755.4	29.78	756.4	57.0	13.9	77	w	20	8.9		0	2 ks		sw.	0.32	8.1	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.73	704.3	29.86	758.4	16.4	— 8.7	76	calm	0	0		0	0			1.11	28.2	clear	D. Moore.
Springfield, Illinois	29.04	752.8	30.38	771.6	15.0	— 9.4	79	w.	5	2.2		0	0			0.13	3.3	clear	T. B. Jennings.
Stockton, Fort, Texas	27.17	690.1	30.30	769.6	40.0	4.4	42	se.	15	6.7		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.80	758.4			30.5	— 0.8	92	e	19	8.5		0	0			0.20	5.1	clear	R. Connor.
Thomas, Camp, Arizona	27.46	697.5	30.29	769.4	31	— 0.6	69	calm			0	0	0			0	0	clear	R. O. Lord.
Toledo, Ohio	29.33	745.0	30.07	763.8	21.5	— 5.8	68	nw'	12	5.4		0	3 k		nw.	0.59	15.0	clear	A. Buell.
Unalaska, Alaska	29.12	739.6	29.14	740.1	38	3.3	89	e.	6	2.7			10 n			0.00	15.2	light rain	Samuel Applegate.
Vicksburg, Mississippi	30.15	765.8	30.42	772.7	33.5	0.8	47	ne.	3	1.3		0	0			0.39	9.9	clear	C. Dill.
Washington, D. C.	29.50	749.3	29.62	752.3	47.5	8.6	50	nw.	23	10.3		2 k	2 k	sw.	sw.	0.88	22.4	fair	T. B. Harrison.
West Las Animas, Colorado	25.92	658.4	30.04	763.0	34	1.1	68	s.	3	1.3		2 c	0	sw.		0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	29.70	754.4	29.76	755.9	59.0	15.0	81	w.	16	7.2		2 k	2 s	w.	w.	0.33	8.4	fair	L. H. Albrecht.
Yankton, Dakota	28.56	725.4	29.98	761.5	3.7	—15.7	75	se.	10	4.5		10 c	0			0	0	cloudy	E. H. Thompson.
Yuma, Arizona	30.02	762.5	30.17	766.3	47.0	8.3	69	calm	0	0		0	0			0	0	clear	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.70	754.4	29.72	754.9	30.4	— 0.9	74	ne.	31	13.9			10 n			0	0	cloudy	George Cheruick.
Bluefields, Nicaragua, C. A					74	23.3		n.			1	0	9 n		n.	0.65	16.5	raining	W. H. Jackson.
Bogota, U. S. C.	22.05	560.0			53.6	12.0	81	se.	2	1		1 cs	3 n		se.	0	0		Joaquin Gomez.
Chimo, Fort, Ungava	29.25	742.9	29.40	746.7	15	— 9.4	100	se.	4	1.8			10 ns		se.	0.11	2.8	clear	L. M. Turner.
Kingston, Jamaica, W. I.			30.15	765.8	69.4	20.8	85	n.	2	0.9		0	0			0	0	clear	Robert Johnstone.
Paramarino, S. A.	30.05	763.3	30.05	763.3	77	25.0	86	e.			2	5 ck	5 k	e.		0.080	2.0		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	77	25.0	89	s.			1	0	6 k		s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	92	ne.			1	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	29.82	757.4	29.89	759.2	—31.0	—35.0		w.	15	6.7		2 c	3 s	w.	w.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.96	761.0	29.97	761.3	79.9	26.6	84	n.	11.2	5.0		0	3 k		n.	0	0	clear	P. Fasiani.
Naos, Bay of Panama	29.98	761.4	30.04	763.1	72.0	22.2	91	nw.			4	0	1 ks		n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 47° 20′, W. 31° 20′ †	29.53	750.0	40	4.4	.....	nw.	.....	.....	7	.....	2?	.....	nw.	6 h'r	6 h'r	high	nw.	cloudy ?
S. S. Alvo, Petit Goave, Hayti, W. I*	30.12	765.0	71	21.7	.....	var.	.....	.....	0-2	.....	8	.....	calm	3 h'r	3 h'r	.....	.....	cloudy.
S. S. Alleghany, Baltimore, Md †	29.54	750.3	48	8.9	.....	w.	.....	.....	6	.....	5	.....	nw.	4 h'r	4 h'r	.....	.....	clearing.
S. S. Ailsa, N. 10° 00′, W. 82° 48′	.....	.....	74.5	23.6	90	ne.	.....	.....	2	.....	10	.....	sw.	4 h'r	4 h'r	sm'h	.....	cloudy.
S. S. America, N. 42° —′, W. 53° —′	.....	.....	36	2.2	90	e.	.....	.....	5	.....	9	.....	.....	0	0	sm'h	e.	overcast.
S. S. Arizona, N. 47° 47′, W. 34° 25′	29.68	753.9	37	2.8	.....	nw.	.....	.....	5-7	.....	5	.....	nw.	0	0	high	nw.	squally.
Schr. Arthur Burton, N. 31° 15′, W. 80° 00′ †	30.01	762.2	.....	.....	.....	wnw.	.....	.....	6	.....	2	.....	wnw.	2 h'r	2 h'r	r'gh	w.	gale.
S. S. Alps, Point Antonio, Jamaica, W. I	.....	.....	81	27.2	.....	e.	.....	.....	2	.....	4	.....	e.	rain	rain	short	.....	
S. S. Adriatic, N. 45° 40′, W. 42° 40′ †	30.03	762.7	.....	.....	.....	n.	.....	.....	5	.....	8	.....	nnw.	.....	.....	h'vy	n.	squally.
Schr. Annie R. Lewis, N. 36° 22′, W. 75° 06′†	29.60	751.8	56	13.3	.....	ssw.	.....	.....	3	.....	10	.....	nw.	6 h'r	6 h'r	h'vy	sse.	raining.
S. S. British Crown, N. 42° 21′, W. 44° 35′	.....	.....	44	6.7	.....	n.	.....	.....	5	.....	7	.....	n.	0	0	mod.	ne.	fair.
S. S. Circassian, N. 50° 00′, W. 31° 15′	29.36	745.7	34	1.1	90	wnw.	.....	.....	6-7	.....	8	.....	wnw.	.....	.....	7	wnw.	hail squalls
S. S. Caracas, N. 35° 21′, W. 71° 50′*†	29.81	757.2	70	21.1	87	s.	.....	.....	7	.....	8	.....	wnw.	3 h'r	3 h'r	r'gh	ssw.	hazy.
S. S. Canada (Br) N. 44° 37′, W. 40° 41′†	30.00	762.0	41	5.0	91	nnw.	.....	.....	5	.....	8	.....	n.	snow	snow	mod.	n.	cloudy.
S. S. Chalmette, N. 26° 46′, W. 80° 00′ *†	30.08	764.0	70	21.1	.....	sw.	.....	.....	5	.....	2	.....	sw.	0	0	sm'h	.....	clear.
S. E. J. Spicer, N. 37° 31′, W. 57° 15′	30.02	762.5	59	15.0	94	n.	.....	.....	6	.....	10	.....	n.	.....	.....	cross	.....	rainy.
S. S. France, N. 48° 40′, W. 27° 43′	.....	.....	.....	.....	.....	wnw.	.....	.....	6	.....	5	.....	w.	snow	snow	h'vy	w.	gloomy.
S. S. Grecian, N. 44° 54′, W. 45° 22′	30.13	765.3	29	— 1.7	89	n.	.....	.....	4	.....	9	.....	n.	0	0	light	n.	cloudy.
S. S. Hohenstaufen, N. 48° 00′, W. 30° 46′	29.46	748.3	44	6.7	76	nnw.	.....	.....	7-9	.....	5	.....	nnw.	9 h'r	9 h'r	h'vy	nnw.	fair.
S. S. Helvetia, N. 46° 32′, W. 41° 22′	29.57	758.7	38	3.3	.....	wnw.	.....	.....	5	.....	7	.....	nw.	0	0	long	wnw.	fair.
Bk. Idaho, N. 21° 10′. W. 83° 00′ *†	30.12	765.0	.....	.....	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Iowa, Boston Bay, Mass	.....	.....	34	1.1	.....	ese.	.....	.....	6	.....	.....	.....	.....	.....	.....	mod.	ese.	raining.
Schr. Jennie N. Huddell, N. 36° 10′, W. 75° 25′ †	29.63	752 6	48	8.9	.....	w.	.....	.....	6	.....	10	.....	nw.	3 h'r	3 h'r	h'vy	sse.	threatening.
S. S. Lone Star, N. 26° 00′. W. 85° 10′ *†	30.20	767.1	70	21.1	.....	nnw.	.....	.....	6	.....	7	.....	nnw.	0	0	h'vy	nnw.	fair.
S. S. Lessing, N. 49° 48′, W. 3° 09′	.....	.....	53	11.7	.....	s.	.....	.....	6	.....	9	.....	ssw.	½ h'r	½ h'r	r'gh	sw.	overcast.
S. S. Mentmore, N. 47° 49′. W. 32° 40′*†	29.44	747.8	.....	.....	.....	nw.	.....	.....	9	.....	3	.....	nw.	6 h'r	6 h'r	h'vy	nw.	stormy.
S. S. Marengo, N. 42° 54′, W. 65° 01′	.....	.....	37	2.8	.....	se.	.....	.....	4	.....	10	.....	.....	10 h'r	10 h'r	light	ese.	foggy.
S. S. Neckar, N. 41° 32′, W. 51° 05′	30.08	764.0	33.0	0.6	89	ene.	.....	.....	6-8	.....	8	.....	e.	0	0	cross	var.	fair.
S. S. Orinoco, Staten Island, N. Y†	29.50	749.3	50	10.0	.....	s.	.....	.....	4	.....	10	.....	ssw.	4 h'r	4 h'r	.....	.....	rainy.
S. S. Ohio, (Am) N. 49° 41′. W. 27° 45′ *†	29.25	742.4	38	3.3	90	nw.	.....	.....	6	.....	8	.....	wnw.	10 h'r	10 h'r	r'gh	wnw.	squally.
S. S. Pennsylvania, N. 45° 20′, W. 39° 00′ †	29.85	758 2	44	6.7	92	nw.	.....	.....	4	.....	7	.....	nnw.	0	0	h'vy	nnw.	fair.
S. S. P. Caland, N. 50° 13′, W. 3° 38′*	29.73	755.1	45	7.2	92	s.	.....	.....	6	.....	6	.....	ssw.	.....	.....	5	sw.	fair.
S. S. Rhein, N. 49° 44′, W. 7° 24′	29.57	751.1	.....	.....	.....	s.	.....	.....	7-8	.....	9	.....	s.	6 h'r	6 h'r	high	s.	raining.
S. S. Rhynland. N. 43° 39′, W. 55° 15′	30.26	768.6	36	2.2	61	ne.	.....	.....	2	.....	1	.....	ne.	0	0	mod.	nne.	clear.
S. S. Scandinavian, Glasgow, Scotland	29.44	747.8	47	8.3	.....	sse.	.....	.....	5	.....	10	.....	sse.	shr's	shr's	.....	.....	raining.
S. S. Samaria, N. 42° 06′, W. 52° 00′	30.08	764.0	34	1.1	.....	ne.	.....	.....	5	.....	10?	.....	se.	8 h'r	8 h'r	mod.	ene.	clear.?
S. S. Salier, N. 45° 09′, W. 46° 06′*	30.20	767.1	.....	.....	.....	n.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	n.	clear.
S. S. Valencia, La Guayra, Venezuela †	30.01	762.2	76	24.4	82	wsw.	.....	.....	1	.....	2	.....	.....	0	0	mod.	nne.	fair.
S. S. Pennland, N. 49° 00′, W. 21° 00′	.....	.....	38	3.3	.....	wnw.	.....	.....	7	.....	10	.....	nw.	10 h'r	10 h'r	high	nw.	squally.
Schr. Adda Doane, Point Antonio, Jamaica, W. I†	30.13	765.3	.....	.....	.....	calm	.....	.....	0	.....	2	.....	e.	0	0	.....	.....	clear.
Bg. Alcira, N. 19° 28′, W. 73° 23′	.....	.....	80	26.7	.....	sw.	.....	.....	1	.....	10	.....	sw.;ne.	0	0	sm'h	n.	cloudy.
S. S. Cienfuegos, N. 19° 55′, W. 74° 40′	30.11	761.8	68	20.0	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Chas Stewart, N. 36° 35′, W. 2° 00′*†	30.06	763.5	.....	.....	.....	w.	.....	.....	6	.....	2	.....	w.	0	0	mod.	w.	clear.
Bk. Cato, N. 40° 30′, W. 16° 25′†	29.99	761.7	56	13.3	94	sw.	.....	.....	7	.....	6	.....	sw.	0	0	long	cross	fair.
S. S. Gallia, N. 48° 43′, W. 29° 07′	.....	.....	40	4.4	.....	nw.	.....	.....	7	.....	8	.....	nw.	snow	snow	.....	.....	snowy.
S. S. Habsburg, N. 45° 34′. W. 39° 40′	29.85	758.2	.....	.....	.....	nw.	.....	.....	6	.....	8	.....	nw.	0	0	r'gh	n.	squally.
S. S. Rialto, N. 49° 49′, W. 6° 02′	.....	.....	52	11.1	.....	ssw.	.....	.....	7	.....	8	.....	ssw.	0	0	high	sw.	hazy.
S. S. Sirius, N. 31° 48′, W. 68° 35′	30.20	767.1	.....	.....	.....	s.	.....	.....	3	.....	1	.....	s.	0	0	sl't	s.	clear.
Bk. Saga, N 31° 53′, W. 79° 22′†	29.93	760.1	63	17.2	.....	var.	.....	.....	2-9	.....	6	.....	.....	3 h'r	3 h'r	r'gh	.....	fair.
S. S. Vaderland, N. 43° 00′, W. 56° 00′	30.26	768.6	33	0.6	.....	ese.	.....	.....	3	.....	1	.....	se.	8 h'r	8 h'r	sm'h	.....	clear.
S. S. Virginian, N. 44° 00′, W. 40° 00′	.....	.....	46	7.8	.....	n.	.....	.....	4	.....	.....	.....	n.	3 h'r	3 h'r	long	n.	cloudy.
S. S. Wyoming, N. 47° 00′, W. 34° 09′	29.72	754.9	40	4.4	.....	nw.	.....	.....	6	.....	5	.....	nw.	8 h'r	8 h'r	h'vy	nw.	squally.
S. S. Westphalia, Hamburg, Germany	30.00	762.0	34?	1.1?	90	w.	.....	.....	3	.....	4	.....	nw.	0	0	.....	.....	fair.
S. S. St. Laurent, N. 45° 48′, W. 38° 50′	.....	.....	41.9	5.5	.....	nnw.	.....	.....	5	.....	7	.....	nnw.	.....	.....	large	nnw.	fair.
S. S. Crescent City, N. 32° 18′, W. 74° 12′*†	29.88	758.9	68	20.0	.....	ssw.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	ssw.	
U. S. Navy Yard, Portsmouth, N. H	.....	.....	37	2.8	90	se.	20	8.9	.....	.....	10	.....	se.	0.2	5.	.....	.....	raining.
U. S. S. Alliance, St. Thomas, W. I	30.11	764.8	75	23.9	77	ene.	.....	.....	1	.....	8	.....	.....	light	light	.....	.....	cloudy.
U. S. S. Kearsarge, Naples, Italy	30.24	768.1	53	11.7	61	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Lancaster, Naples, Italy	30.24	768.1	55	12.8	87	sw.	.....	.....	3	.....	2	.....	.....	0	0	sm'h	.....	fair.
U. S. S. New Hampshire, Newport, R. I	29.65	753.1	40	4.4	7	se.	.....	.....	5	.....	10	.....	.....	.....	.....	sm'h	.....	raining.
U. S. S. Portsmouth, Fortress Monroe, Va	29.59	751.6	55	12.8	100	wsw.	.....	.....	3	.....	10	.....	wsw.	.....	.....	.....	.....	cloudy.
U. S. S. Powhatan, Boston, Mass	29.70	754.4	39	3.9	91	se.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	raining.
U. S. S. Quinnebaug, Leghorn, Italy	30.15	765.8	53	11.7	54	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U S. S. Swatara, Port au Prince, Hayti, W. I	30.11	764.8	74	23.3	86	calm	.....	.....	0	.....	2	.....	calm	mod.	mod.	sm'h	.....	clear.
U. S. S. Trenton, Naples, Italy	30.21	767.3	57	13.9	52	sw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Vandalia, Curacoa, W. I	30.04	763.0	78	25.6	78	ene.	.....	.....	2	.....	5	.....	calm	.....	.....	.....	.....	fair.
U. S. S. Yantic, New York, N. Y	29.44	747.8	44	6.7	100	s.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	foggy.
H. M. S. Alexandra, N. 34° 42′, E. 19° 02′	30.18	766.6	59	15.0	59	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	2	ene.	3. clouds.
H. M. S. Alecto, N. 4° 25′, W. 5° 50′	29.88	758.9	81	27.2	.....	sse.	.....	.....	1	.....	2	.....	ne.	.....	.....	2	ssw.	d. clouds.
H. M. S. Boadicea, N. 4° 16′, W. 60 22′	.....	.....	82	27.8	96	wsw.	.....	.....	1	.....	2	.....	.....	.....	.....	1	wsw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.12	765.0	65	18.3	68	wsw.	.....	.....	3	.....	3	wsw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Himalaya, N. 32° 10′, W. 63° 30′	.....	.....	65	18.3	68	wnw.	.....	.....	3	.....	0	wsw.	.....	.....	.....	1	nnw.	blue sky.
H. M. S. Minotaur, Terranova, Sicily	30.21	767.3	53	11.7	70	ese.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.93	760.3	79.7	26.5	94	sse.	.....	.....	5	.....	10	ssw.	se.	4 h'r	4 h'r	6	se.	thnd'r st'rm.
S. S. British Princess, N. 45° 55′, W. 35° 00′†	29.74	755.4	41	5.0	.....	nw.	.....	.....	6	.....	8	.....	nw.	2 h'r	2 h'r	r'gh	nw.	showery.
S. S. Lord Clive, N. 49° 04′. W. 59° 45′	.....	.....	.....	.....	.....	ese.	.....	.....	4	.....	10	.....	ese.	9 h'r	9 h'r	str'g	e.	cloudy.
S. S. Prussian, N. 55° 10′, W. 5° 48′	.....	.....	45	7.2	.....	s.	.....	.....	6	.....	10	.....	s.	0	0	mod	w.	cloudy.
S. S. Alpin, N. 22° 59′, W. 67° 00′*†	30.15	765.8	.....	.....	.....	sse.	.....	.....	2	.....	.....	.....	se.	0	0	sm'h	ese.	fine.
S. S. Dorian, N. 51° 16′, W. 11° 30′	29.29	744.0	46	7.8	.....	sw.	.....	.....	3	.....	10	.....	.....	h'vy	h'vy	long	sw.	overcast.
S. S. Carroll, N. 43° 15′, W. 66° 06′	.....	.....	34	1.1	.....	s.	.....	.....	3	.....	10	.....	s.	light	light	long	se.	light rain.
S. S. Llandaff City, N. 48° 57′, W. 180 56′*†	29.25	742 9	44	6.7	.....	wsw.	.....	.....	6	.....	10	.....	.....	0	0	h'vy	sw.	gloomy.
S. S. Wisconsin. N 41° 39′, W. 62° 40′	30.10	764.5	51	10.6	.....	ese.	.....	.....	4	.....	10	.....	e.	13 h'r	13 h'r	long	e.	cloudy.
S. S. Bohemia, N. 47° 44′, W. 29° 24′	.....	.....	.....	.....	.....	nw	.....	.....	9	.....	6	.....	nw.	rain	rain	h'vy	nw.	squally.
S. S. Rugia, N. 42° 40′, W. 51° 30′	.....	.....	29	— 1.7	.....	ene.	.....	.....	6	.....	0	.....	.....	0	0	r'gh	ene.	clear
S. S. Rhaetia, N. 49° 45′, W. 7° 28′	.....	.....	50	10.0	.....	s.	.....	.....	5	.....	10	.....	sw.	2 h'r	2 h'r	r'gh	ssw.	cloudy.
S. S. Archimede, (It) N. 36° 40′, W. 2° 12′	.....	.....	64	17.8	.....	w	.....	.....	4	.....	2	.....	w.	0	0	mod.	w.	clear.
S. S. Picqua, N. 43° 18′. W. 16° 10′	.....	.....	57	13.9	87	w.	.....	.....	9	.....	.....	.....	wsw.	8 h'r	8 h'r	high	nw.	rainy.
S. S. Texas, N. 24° 39′. W. 80° 50′*†	30.12	765.0	79	26.1	91	nne.	.....	.....	2	.....	5?	.....	.....	0	0	sm'h	.....	cloudy.?
S. S Ontario, N. 51° 07′, W 13° 50′	29.21	741.9	41	5.0	.....	wsw.	.....	.....	6	.....	10	.....	.....	6 h'r	6 h'r	cross	nw;w	cloudy.
S. S. Denmark, N. 50° 12′, W. 3° 38′ †	29.82	757.4	51	10.6	93	ssw.	.....	.....	6	.....	6	.....	ssw.	0	0	mod.	sw.	cloudy.
S. S. England, N. 44° 40′, W. 43° 20′	30.12	765.0	.....	.....	.....	ne.	.....	.....	5	.....	8	.....	ne.	0	0	high	ne.	cloudy.
S. S. Erin, New York, N Y†	29.48	748.8	48	8.9	.....	ese.	.....	.....	6	.....	10	.....	ese.	4 h'r	4 h'r	.....	.....	raining.
S. S. Leipzig, N. 11° 17′. W. 29° 09′*	30.03	762.7	77.5	25.3	98	ene.	.....	.....	5	.....	5	.....	ene.	0	0	light	n.	fair.
S. S. Strassburg, N. 35° 50′, W. 14° 19′	30.33	770.4	61.0	16.1	55	ssw.	.....	.....	3	.....	10	.....	ssw.	0	0	7	nw.	clearing
S. S. City of Augusta, Savannah, Ga	.....	.....	.....	.....	.....	wnw.	.....	.....	6	.....	6?	.....	wnw.	0	0	.....	.....	clear.
S. S. Muriel, N. 19° 50′, W. 63° 40′	30.16	766.1	76	24.4	.....	e.	.....	.....	3	.....	0	.....	.....	0	0	mod.	e.	clear.
S. S. Waesland, Antwerp, Belgium	30.01	762.2	49	9.4	.....	s.	.....	.....	5	.....	9	.....	s.	0	0	.....	.....	cloudy.
S. S. Westernland, N. 42° 33′. W. 48° 48′	30.12	765.0	46	7.8	92	n.	.....	.....	5	.....	8	.....	nne.	12 h'r	12 h'r	cross	ne.	cloudy.
S. S. W. A. Scholten, Rotterdam, Holland	29.94	760.5	48.9	9.4	86	ssw.	.....	.....	6	.....	9 k	.....	ssw.	0	0	.....	.....	
S. S. Zaandam, N. 50° 00′, W. 4° 16′	.....	.....	54.5	12.5	88	sw.	.....	.....	6	.....	10	.....	.....	3 h'r	3 h'r	h'vy	sw.	hazy.
S. S. State of Nebraska, N 42° 02′, W. 53° 02′ *†	30.10	764 5	33	0.6	.....	ene.	.....	.....	5	.....	0	.....	.....	.....	.....	sm'h	.....	blue sky.
S. S. Saxon, N. 39° 45′, W. 73° 40′	.....	.....	48	8.9	.....	sse.	.....	.....	3	.....	10	.....	.....	rain	rain	short	ese.	stormy.
S. S. Celtic, Liverpool, Eng*†	29.62	752 3	56?	13.3?	.....	ssw.	.....	.....	6	.....	9	.....	s	6 h'r	6 h'r	.....	.....	overcast.
S. S. Republic, N. 43° 53′, W. 47° 33′*†	30.04	763.0	38	3.3	81	nne.	.....	.....	6	.....	5	.....	ne.	8 h'r	8 h'r	mod.	ne.	d. clouds.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. S. Lepanto, N. 37° 27′, W. 9° 24′	30.30	769.6	58	14.4		nnw.			2		7		nw.	0	0	hv'y	wnw.	d. clouds
S. S. Romano, Hull, England			42	5.6		sw.			4		5		ssw.	0	0			fine.
S. S. Salerno, N. 41° 33′, W. 62° 12	30.18	766.6	52	11.1		ese.			3		10		ese.	1.0	25.	h'vy	e.	raining.
S. S. Antonio Lopez, Barcelona, Spain			57.5	14.2	81	ese.			3	6 c				3 h'r	3 h'r			squally.
Bgt. Achsah, N. 26° 20′, W. 61° 10′ †	30.20	767.1	74	23.3		nw.			3		4		n.	0	0	long	se.	clear.
S. Armenia, N. 48° 42′, W. 22° 20′*	29.25	742.9	47	8.3	70	w.			6		7		w.	2 h'r	2 h'r	r'gh	w.	squally.
S. S. Bracadale, N. 41° 17′, W. 49° 05′						ese.			3		7		e.	0	0	mod	e.	dull.
Bk. Benjamin Dickerman, N. 28° 00′, W. 56° 00′*†	30.16	766.1	71	21.7		wsw.			5		4		wsw.	0	0	long	n.	fair.
S. Cornelius, N. 40° 27′, W. 54° 39′*†	30.18	766.6	53.4	11.9		ene.			7		5?		ene.	4 h'r	4 h'r	h'vy	ne	cloudy.?
S. Dora, N. 45° 12′, W. 34° 12′†	29.70	754.4	43.7	6.5		wnw.			6		5		nw.	4 h'r	4 h'r	mod.	wnw.	
S. David Stewart, N. 11° 39′, W. 66° 15′			79	26.1		ene.			4		3		ene.	sh'rs	sh'rs	mod.	ene.	clear.
Schr. Edith R. Seward, N. 27° 09′, W. 55° 54′†	30.08	764.0	72	22.2		wsw.			2		7		wsw.	0	0	short	w.	cloudy.
Bk. Fred. W. Carlon, Progreso roads, Mexico†	30.21	767.3	80	26.7		se.			4		0			0	0	sm'h	ne.	clear.
Bk. Gloire, N. 32° 20′, W. 73° 10′*	29.91	759.7	70	21.1		ssw.			6		6		w.	0	0	short	sw.	cloudy.
Bk. Godeffroy, N. 2° 19′, W. 36° 51′	29.91	759.7	80.8	27.1	92	se.			1		7			light	light	mod.	nne.	showery.
Bk. George Davis, N. 41° 08′, W. 38° 10′*†	29.71	754.6				ne.			5				ne.	light	light	cross	n.	covered.
Bk. Galeon, Grimsby Road, Eng†	29.73	755.1	48	8.9		ssw.			5		3		ssw.	0	0			misty.
Bk. Hattie G. McFarland, N. 21° 12′, W. 83° 00′ †	30.17	766.3	76	24.4		ne.			4		3		n.	0	0	sm'h		fine.
S. Henry, N. 42° 35′, E. 16° 38′*	30.25	768.3	50.4	10.2		nnw.			3	3 ck	0					2	nnw.	fair.
Bg. John Wesley, N. 32° 52′, W. 76° 50′						n.			1		1		se.	0	0	mod.	var.	clear.
Bg. John Welsh, Jr., N. 28° 50′, W. 78° 14′						wsw.			5				wsw.			r'gh	wsw.	
Schr. John Bird, N. 36° 45′, W. 74° 20′						wsw.			5		10		wsw.	0	0	long	var.	overcast.
S. S. Laurel, Key West, Fla †	30.18	766.6	78	25.6		sse.			1–2		3		s.	0	0			clear.
Bg. L. F. Munson, N. 27° 00′, W. 72° 05′			74	23.3		ssw.			3		2		ssw.	2 h'r	2 h'r	sm'h		clear.
S. S. Madrid, N. 50° 28′, W. 1° 28′ †	29.93	760.2	50	10.0	86	s.			6		0			0	0	r'gh	s.	clear.
Schr. Minnie A. Bonsall, Brunswick, Ga*†	30.10	764.5				nw.			5				w.	2 h'r	2 h'r	light		clear.
Schr. Maggie Abbott, N. 28° 35′, W. 73° 10′*†	30.09	764.3				ssw.			5		3		sw.	0	0	short	sw.	clear.
Schr. Norena, Ponce, Porto Rico, W. I.						n.			1		2		ene.	0	0			fine.
Bk. Orpheus, N. 49° 43′, W. 24° 23′*	29.12	739.6	40	4.4		wnw.			7		8 k		nw.			long	wnw.	cloudy.
S. S. Radnorshire, N. 50° 13′, W. 3° 00′ *†	29.80	756.9				ssw.			7		10		ssw.	2 h'r	2 h'r	h'vy	ssw.	threatening
Bk. Sunbeam, N. 38° 19′, W. 60° 05′ *†	30.05	763.3	61	16.1	82	ene.			7		8		e.	6 h'r	6 h'r	cross	var.	clearing.
Bgt. Sunlight, N. 27° 25′, W. 57° 05′						w.			4		5		w	0	0	sm'h		fair.
S. St. David, N. 21° 04′, W. 41° 47′			74.3	23.5	77	ne.			3		1		ne.	1 h'r	1 h'r	long	nne.	fine.
S. Stephen D. Horton, Antwerp, Belgium †	30.06	763.5				s.			3		8		sw.	1 h'r	1 h'r			cloudy.
S. Vincenzo Accame, N. 37° 15′, W. 48° 02′			64.4	18		ne.			8		10		nne.	4 h'r	4 h'r	r'gh	var.	stormy.
S. S. Maasdam, N. 40° 47′, W. 60° 56′*	30.04	763.1	45.7	7.6		ese.			4							mod.		squally
S. S. Strathleven, N. 49° 00′, W. 18° 16′						w.			7									squally.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	30.02	762.5	71	21.7	80	n.			2		5		nnw.					fair.
H. M. S. Amethyst, Montevideo, Uruguay	29.90	759.4	68	20.0	84	n.			2		6	n						d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	29.94	760.5	74	23.3	72	se.			5		4	se.						d. clouds.
H. M. S. Sylvia, St. Jago Bay, Patagonia	29.28	743.7	47.2	8.4	88	nnw.			4		9	calm						d. clouds.
H. P. M. S. Tejo, S. 8° 44′, E. 13° 19′	30.02	762.5	84.2	29.0	96	sw.			2		7			0	0			d. clouds.
H. P. M. S. Bengo, S. 3° 44′, W. 1° 14′	29.94	760.4	84.2	29.0	89	ssw.			4		7		s.	3½ h'r	3½ h'r	4	s.	d. clouds.
S. S. Hevelius, S. 22° 30′, W. 38° 55′*†	30.04	763.0	80	20.7		n.			6		9		ese.	1 h'r	1 h'r			overcast.
S. S. Rosse, S. 7° 57′, W. 33° 49	29.86	758.4	80.5	26.9	74	se.			4		0			0	0			clear.
Bk. Adelaide, S. 2° 52′, W. 32° 25′*†	29.93	760.2				se.			4		1		sse			light	sse	clear.
Bk. Celestina, S. 23° 32′ W. 37° 25′*†	29.97	761.2				n.			3		10		n.;e.	3 h'r	3 h'r	mod.	var.	rainy.
S. S. George S. Homer, S. 24° 00′ W. 30° 30′ *†	30.05	763.3				n.			2		3		n.	3 h'r	3 h'r	mod.	n.;e.	fine.
S. Grecian, S. 33° 35′, W. 32° 20′†	29.88	758.9	66	18.9	84	sse.			7		6		se.	20 h'r	20 h'r	rg'h	se.	squally.
S. Henry Falling, S. 28° 54′, W. 26° 55′*†	30.04	763.0	79	26.1	86	n.			5		3		nnw.	0	0	long	ne.	fair.
Bk. Horace Scudder, Congo river, Guinea*†	30.10	764.5	87	30.6		wnw.			2		2		wnw.	0	0			clear.
Bkt. Levanter, Montevideo, Uruguay*	30.02	762.5	70	21.1		n.			3		4		s.	0	0	sm'h		fair.
Bk. Winifred, S. 10° 10′, W. 34° 08′*†	29.95	760.7											e.	0	0		e.	
S. Orealla, S. 39° 29′, E. 0° 06′*	30.03	762.7				nw.			3		8		nw.	0	0	sm'h		foggy.
District No. 3—North Pacific.																		
U. S. S. Alert, Nagasaki, Japan			43	6.1	83	n.			2		0					mod.	w.	clear.
U. S. S. Essex, Canton, China	30.18	765.6	64	17.8	78	n.			2		10							overcast.
U. S. S. Hartford, N. 19° 11′, W. 146° 44′	30.07	763.8	76	24.4	86	ese.			3		5		s.	0	0	mod.	n.;w.	fair
U. S. S. Juniata, Nagasaki, Japan	30.27	768.8	47	8.3	85	n.			2		0			0	0			clear.
U. S. S. Monocacy, N. 29° 24′, E. 122° 02′	30.21?	767.3?	48	8.9	92	n.			3		10		n.			mod.	nw.	cloudy.
U. S. S. Palos, Tientsin, China	30.41	772.4	32	0.0		nnw.			4		0							clear
H. M. S. Audacious, Victoria harbor, Hong Kong, China	30.12	765.0	63	17.2	94	calm			0		10							drizzling.
H. M. S. Cleopatra, N. 24° 20′, E. 118° 05′	30.07	763.8	62	16.7	88	se.			2		10	ne.				1		overcast
H. M. S. Champion, Shanghai, China	30.28	769.1	48?	8.9?	92	e.			1		0							blue sky.
H. M. S. Flying Fish, N. 24° 20′, E. 118° 04′	30.12	765.0	57.8	14.3	88	se.			1		10							misty.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.85	758.9	85.6	29.8	65	wnw.			2		4							d. clouds.
H. P. M. S. Tamega, Macao, China	30.17	766.4	62.6	17.0	80	nnw.			3		10			20 h'r	20 h'r			rain & fog.
S. S. Newbern, N. 24° 16′, W. 110° 24′*†	30.10	764.5	65	18.3	73	nw.			2		0			0	0	small	wnw.	clear
S. S. Oceanic, San Francisco, Cal			53	11.7	100	ne.			2		7		ne.	0	0	3	ne.	fair.
S. S. Oregon, Portland, Oregon			47	8.3	85	sw.			2		10		sw.					cloudy.
S. S. Alameda, N. 27° 32′, W. 145° 37′†	30.07	763.8	68	20.0		sse.			4		3		s.	4 h'r	4 h'r	mod.	wnw.	clear.
S. S. Ancon, Point Fermin, Cal	30.18	766.6	54	12.2	87	nnw.			2		0			0	0			clear.
S. S. City of Chester, San Francisco, Cal†	30.35	770.9	48	8.9	92	se.			2		10			0	0			
S. S. Queen of the Pacific, Port Townsend, Wash. Ter	29.95	760.7	30	— 1.1	89	w.			1		2?		w.	13 h'r	13 h'r	sm'h		cloudy.?
S. S. State of California, N. 11° 06′, W. 124° 30			51	10.6	93	calm			0		10		sw.			short	sw.	
S. S. Eureka, N. 56° 11′, W. 132° 27′			19	— 7.2	100	ne.			3		10			24 h'r	24 h'r	sm'h		heavy snow.
S. S. Australia, N. 25° 59′, W. 150° 24′			70	21.1	95	var.			2		4		se.	0	0	long	n.	fair.
S. S. City of Sydney, N. 33° 53′, W. 133° 10′*†	30.31	769.9	62	16.7	83	ssw.			2	8 ck		ssw				mod.	w.	cloudy.
S. S. Colima, N. 9° 12′, W. 84° 26′ †	30.00	762.0	80	26.7	82	ese.			3		4		e.	0	0	small	s.	clear.
S. S. San Blas, Acapulco, Mexico †	30.02	762.5	74	23.3	90	nw.			3		0			0	0			clear.
S. S. San Jose, N. 21° 55′, W. 109° 00 *†	30.15	765.8	67	19.4		n.			3		3		n.	0	0	small	nw.	clear.
S. St. Francis, N. 23° 30′, W. 127° 30′			62?	16.7?	83	nne.			6		7		ne.	3 h'r	3 h'r	mod.	nnw.	squally.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, Callao, Peru*	30.02	762.5	71	21.7	100	se.			1		10		calm			sm'h		overcast.
H. M. S. Espiegle, S. 40° 30′, E. 168° 22′	30.08	764.0	53	11.7	80	calm			0		0							blue sky.
H. M. S. Lark, S. 30° 50′, E. 174° 48′	29.82	757.4	66.3	19.1	79	e.			3		10					1	e.	raining.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.70	754.4	64	17.8	49	calm			0		10							overcast.
S. S. Zealandia, Sydney, N. S. W.	29.95	760.7	83	28.3	71	e.			4		2		e.	0	0			clear.
S. Ismir, S. 55° 04′, W. 79° 26′ *†	28.79	731.3				sw.			9		5		sw.	4 h'r	4 h'r	high	sw.	fair.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.88	758.9	62	16.7		se.			2		0	s.				1	n.	
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.89	759.2	75	23.9	81	e.			1		0							blue sky.
H. M. S. Tourmaline, Mananhar, Madagascar	29.94	760.5	84	28.9	83	sw.			1		3							d. clouds.

International Chart I. February 20, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 21. 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.20	767.1	60.1	15.6	81	e.			1		0			0	0		Roziere.
Algiers			30.15	765.7	57.2	14.0	78	nw.			3		9			0.177	4.5		Thève.
La Calle			30.10	764.4	55.4	13.0	77	nnw.			2		5			0.091	2.3		Fonfrède.
Tunis			30.08	764.1	57.2	14.0	74	nw.			3		3			0	0		Delord.
Geriville					44.6	7.0	71	n.			4		0			0	0		Forfert.
Laghouat			30.18	766.6	64.8	18.2	90	se.			1		0			0	0		Abraham.
Biskra			30.17	766.3	56.5	13.6	69	w.			3		6			0.331	8.4		Gouzon.
Australian.																			
Adelaide, South Australia			29.92	760.0	73.2	22.9	47	calm	0	0			10 k			0	0		Charles Todd, C. M. G.
Hobart Town, Tasmania	29.51	749.5	29.70	754.4				wnw.	20	8.9			1		sw.	0	0	clear	Com. J. Shortt, R.N.
Melbourne, Victoria	29.85	758.2	29.94	760.5	64.4	18.0	84	ssw.	6	2.7			10			0.02	0.5	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.65	753.0	30.21	767.4	43.2	6.2	36	s.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.28	743.6	30.06	763.5	44.6	7.0	52	w.	2.5	1.1			9			0	0		Dr. Wierzbiski
Eperies	29.22	742.3	30.14	765.6	35.6	2.0	69	s.			1	cs	9 s			0	0		Julius Mikolik.
Gratz	28.89	733.8	30.19	766.8	39.7	4.3	63	s.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.63	727.2	30.11	764.8	39.7	4.3	49	w.			2		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.76	730.5	30.14	765.5	42.3	5.7	61	calm			0		0			0	0	clear	The Staff.
Lemberg	29.00	736.6	30.02	762.6	36.1	2.3	82	n.			4		10			0.059	1.5		Dr. T. Stanecki.
Pola	30.08	763.9	30.19	766.8	45.7	7.6	68	wnw.			5		0			0	0		I. R. Hydrographic Office.
Szathmar	29.66	753.3	30.14	765.6	39.2	4.0	46	sw.			2		4			0	0		Joseph Midliuszky, S. J
Szegedin	29.87	758.8	30.17	766.2	42.4	5.8	54	s.			1		0			0	0		Karl Stancel.
Trieste	30.16	766.1	30.26	768.6	43.0	6.6	54	nw.			1		0			0	0		Royal Academy.
Vienna	29.43	747.6	30.18	766.6	37.6	3.1	68	calm			0		0			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.63	727.1	30.04	762.9	46.9	8.3	82	s.			1		3		sw.	0	0		
Brussels	29.75	755.7	29.95	760.8	48.9	9.4	76	wsw.			2	10				0	0		
Furnes	29.85	758.2	29.87	758.7	47.8	8.8	74	sse.			1		10			0.004	0.1	rainy	
Maeseyck	29.87	758.7	29.99	761.8	52.2	11.2	72	s			2		9			0	0		
British.																			
Aberdeen	29.40	746.7	29.50	749.3	43.7	6.5	64	s.	22	9.8			2			0.010	0.3	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			29.57	751.1	44.9	7.2	60	se.	19	8.5			10					overcast	John Hartnup.
Bolton, Sharples	29.06	738.1	29.59	751.6	44.4	6.9	68	s.	24	10.7			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.20	741.7	29.60	751.8	46.1	7.8	66	sw.			3		2			0.03	0.8	blue sky	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.03	762.7	30.06	763.5	78	25.6	66	e.			4		2					d. clouds	Corp'l C. McGregor, A.H.C
Cardington					49.0	9.4	78	sw.			0–6		6					d. clouds	John McLaren.
Chatham, School M. E.	29.58	751.3	29.75	755.6	45.7	7.6	96	sw.			3		10			blank	blank	raining	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.42	747.3	29.66	753.4	44.0	6.7	90	sw.			4		10					raining	The Staff.
Fort Napier, Natal	27.37	695.2	29.68	753.9	93.0	33.9	35	nw.			3		2					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.34	745.2	29.38	746.2	36	2.2	90	se.			6		8			0.77	19.6	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.01	762.2	30.20	767.1	58.2	14.6	82	w.			2		4					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.56	750.8	29.74	755.4	47.4	8.6	88	ssw.					8					d. clouds	The Staff.
Guernsey	29.48	748.8	29.78	756.4	50.0	10.0	86	ssw.			1	cs	6			blank	blank	d. clouds	A. Collenette, F.R.M.S.
Kew, Observatory	29.70	754.4	29.73	755.1	49.3	9.6	71	sw.	15	6.7			5					d. clouds	The Staff.
Leicester, Museum	29.41	747.0	29.67	753.6	50.0	10.0	56	sw.			2		5					d. clouds	J. C. Smith.
Malta, Mediterranean	30.00	762.0	30.08	764.0	53.2	11.8	97	se.			2		8			0.12	3.0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.16	766.1	30.20	767.1	73.0	22.8	76	n.			2		8					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.48	748.8	29.71	754.6	49.0	9.4	71	ssw.			4		3					blue sky	The Staff.
Plymouth	29.59	751.6	29.66	753.4	46.2	7.9	88	s.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.24	742.7	29.34	745.2	41.9	5.5	66						5					d. clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.99	761.7	30.06	763.5	43.2	6.2	57	ne.			2		8					d. clouds	W. H. Lyne.
Sheffield	29.36	745.7	29.64	752.8	48.9	9.4	67	sw.			3		1			blank	blank	blue sky	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss					50.1	10.1	77	sw.			2.0		5					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.29	744.0	29.31	744.5	44.4	6.9	88	ssw.	40	17.9			7			blank	blank	gloomy	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.76	755.9	30.15	765.8	52.9	11.6	69	e.	5.6	2.5			10 n		e.	0.12	3.0	drizzling	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.85	758.2	29.89	759.2	2.0	−16.7		nnw.	10.5	4.7		0	5 n			0.500	12.7	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.70	754.4	29.74	755.4	11	−11.7	71	nw.	12	5.4		0	0			0.500	12.7	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.78	756.4	29.85	758.2	2	−16.7	91	nw.	16	7.2		0	0			0.44	11.2	clear	G. A. Blair.
Cornwall, Ontario	29.06	761.0	30.17	766.3	4.8	−15.1	95	e.			1	0	0			0	0	blue sky	Tas. Smith, M. A.
Dalhousie, N. B.	29.88	758.9	29.94	760.5	−4.0	−20.0		w.			4	0	0			0.400	10.2	blue sky	H. A. Johnson.
Father Point, Quebec*	30.05	763.3	30.07	763.8	−0	−21.1	82	nnw.	10	4.5		0	0			1.10	27.9	clear	C. McWilliams
Fort Garry, Manitoba*	29.00	736.6	29.96	761.0	−16	−26.7	100	s.	19	8.5		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	29.98	761.5	30.05	763.3	2.1	−16.6	84	nw.	22	9.8		0	0			0.630	16.0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	29.00	761.7	30.05	763.3	9	−12.8	69	n.	21	9.4		2 k	0	n.		0.78	19.8	fair	J. Chipman Seeley
Granton, Ontario	28.78	731.0	29.93	760.2	26.2	−3.2	98	s.	12	5.4			10 n			inap	inap.	snowing	Tas. Grant.
Halifax, N. S*	29.67	753.6	29.81	757.2	20	−6.7	70	nw.	20	8.9		0	0			0.725	18.4	clear	A. Allison.
Hamilton, Ontario	29.42	747.3	29.86	758.4	29.7	−1.3	89	sw.			2	4 ck	0	sw.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.79	756.7	30.16	766.1	11	−11.7	73	sw.	1	0.4		5 cs	0	w.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.51	749.5	29.55	750.6	21.0	−6.1	86	nw.	6	2.7		0	8 n			inap.	inap.	d. clouds	C. H. Rigby.
London, Ontario	28.09	736.3	29.93	760.2	27.3	−2.6	94	s.			3		10 ks			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.33	694.2	29.76	755.9	11	−11.7	91	s.	30	13.4			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	27.77	705.3	30.01	762.2	−21	−29.4	100	sw.	10	4.5		0	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	30.00	762.0	30.23	767.8	3	−16.1	72	calm	0	0		0	0			0.22	5.6	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.93	760.2	30.19	766.8	−3.0	−19.4	100	wnw.				0	0			0.300	7.6	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.19	741.4	29.94	760.5	13	−10.6	83	se.	18	8.0			10 n		se.	0.02	0.5	light snow	Rev. R. Mosley.
Peterboro, Ontario	29.24	742.7	30.03	762.7	16.6	−8.6	77	sw.			1		10 k					snowing	Wm. O'Connor, M.A.
Port Arthur	29.27	743.4	30.05	763.3	1	−17.2	69	sw.	3	1.3		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.26	743.2	29.99	761.7	28	−2.2	88	s.	21	9.4		10 c	0	s.		inap.	inap.	fair	R. Morgan.
Port Stanley, Ontario	29.27	743.4	29.94	760.5	28	−2.2	77	s.	8	3.6			10 n		sw.	0	0	cloudy	M. Pavne.
Qu Appelle, N. W. T	27.34	694.4	29.88	758.9	−10	−23.3		sw.	4	1.8		2 cs	0	w.		0	0	fair	Leslie Gordon.
Quebec, Quebec*	29.81	757.2	30.21	767.3	−5	−20.6	68	sw.	8	3.6		0	0			0.60	15.2	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.55	750.6	30.07	763.8	−3	−19.4	79	se.	4	1.8			10 n			inap.	inap.	light snow	W. H. McIntyre.
St. Andrews, N. B.	29.96	761.0	30.02	762.5	0	−14.4	82	nw.	18	8.0		0	0			0.43	10.9	clear	
St. John, N. B	29.85	758.2	30.01	762.2	7.9	−13.4	77	nw.	32	14.3		0	c			0.538	13.7	blue sky	G. Hutchinson.
St. Pierre, N. F.			29.65	753.0	36.7	2.6		s.			4								The Commandant.
Saugeen, Ontario*	29.05	737.9	29.80	756.9	23	−5.0	96	s.	27	12.1			10 s			0.05	1.3	cloudy	
Stratford, Ontario	28.54	724.9	29.88	758.9	25.1	−3.8	85	sw.	24	10.7			10 s			0	0		W. McBride, M.A.
Sydney, C. B*	29.42	747.3	29.48	748.8	28	−2.2	80	w.	38	17.0			10 n			0.40	10.2	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.63	752.6	30.03	762.7	25	— 3.9	76	s.	20	8.9			10 n		w.	0	0	cloudy	Chief Observatory.
Woodstock, Ontario	28.85	732.8	29.96	761.0	26.1	— 3.3	90	se.	32	14.3			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.95	760.7	30.02	762.5	17	— 8.3	67	nw.	28	12.5		0	8 k		w.	0.47	11.9	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.69	754.1	29.72	754.9	69.0	20.6	95	sw.				0	8 n			0.100	2.5	cloudy	I. Garfelt.
Cape Town, The Castle	29.75	755.6			67.0	19.4	83	nne.				0	5 nk			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.81	706.4			73	22.8	63									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.91	759.7	29.98	761.6	62.6	17.0	95	n.			1	10						cloudy	Samuel Redolez.
Iquique	29.92	759.9	29.95	760.6	70.2	21.2	74	s.			2							foggy	Rafael Moreno.
Niebla	29.65	753.2	29.76	755.9	52.9	11.6	85	e.			2		2 n		s.	0	0		Federico Köhling.
Punta Caldera	29.93	760.1	30.01	762.3	62.2	16.8	81	ne.			1	10 n		ne.				cloudy	Manuel Tobar.
Punta Corona	29.91	759.8	30.10	764.5				w.			4	6 n		nw		0	0	cloudy	Francisco Alvarado.
Valparaiso	29.84	758.0	29.98	761.5	61.9	16.6	86	sw.			0	0	0					clear	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.48	774.2	30.50	774.8	34.5	1.4	74	n.	6.0	2.7			0			0.004	0.1	clear	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.98	761.4	30.02	762.6	41.4	5.2	97	se.	4	2			10					foggy	Oversergent Fischer.
Fanöe	29.93	760.1	29.95	760.6	43.2	6.2	94	s.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.45	747.9	29.49	749.0	18.3	— 7.6	72	ene.			2		10						S. Kleinschmidt.
Ivigtut, Greenland	29.69	754.1	29.71	754.6	14.0	—10.0		calm			0		10						
Jacobshavn, Greenland	29.67	753.5	29.71	754.7	0.5	—17.4		e.			4		1						
Stykkisholm, Iceland	29.12	739.6	29.16	740.7	35.2	1.8	91	calm			0		8						A. O. Thorlacius.
Thorshavn	28.92	734.5	28.94	735.1	43.3	6.3	94	se.	27	12.			7					raining	Overloerer Bergh.
Upernavik, Greenland	29.56	750.7	29.60	751.9	4.8	—15.1		e.			2		4					snowing	
Vestervig	29.81	757.2	29.90	759.5	43.3	6.3	93	s.			6		0						Loerer Oesterhol.
Egyptian.																			
Cairo	29.72	755.0			62.6	17.0		nw.	7.6	3.4		0	8 k			0	0		Albert Ismatun.
French.																			
Agen, Normal School	29.47	748.5	30.12	765.0	50.0	10	86	s.			1		5 kn		s.	0	0		M. Labroue, Director.
Alençon, Normal School	29.38	746.3	29.93	760.3	46.4	8	92	s.			1		2 k		n.	0	0	slightly cl'dy	M. Nicot, Director.
Arras, Normal School	29.60	751.7			47.3	8.5	79	s.			4		8		sw.	0.169	4.3	very cloudy	M. Ungerer, Director.
Avignon, Normal School	30.14	765.6	30.22	767.6	55.0	12.8	48	e.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.49	749.0	30.05	763.3	51.3	10.7	46	s.			1		5		s.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.68	753.9	29.95	760.7	49.1	9.5	71	s.			2		10		sw.	0	0	covered	M. Frère Eugène Mariè.
Besançon, Normal School	29.15	740.4	30.06	763.4	54.3	12.4	45	sw.			2		n		ne.	0	0		M. Goblin, Director.
Bordeaux, Observatory	29.76	756.0	30.03	762.7	55.0	12.8	61	sse.			1		2			0.004	0.1	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.50	749.2	30.04	763.1	56.1	13.4	62	sw.			1		1		sw.	0	0	clear	M. Sauvageot, Director.
Brest, Naval Observatory	29.59	751.6	29.84	757.8	53.2	11.8	73	sw.			2		4		sw.	0.748	19.0		M. de Kermarée, Dir.
Caen, Normal School	29.79	756.6	29.87	758.6	50.7	10.4	95	s.			1		10			0.08	2.	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.73	755.2	30.06	763.5	51.3	10.7	64	s.			2		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.50	749.3	30.02	762.5	49.3	9.6	69	s.			1		10		s.	0	0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.67	728.3	30.02	762.5	57.2	14.0	42	s.			1	c	5 pc			0	0		M. Allnard, Director.
Cluny, Normal School	29.21	742.0	30.03	762.7	50.9	10.5	44	se.			6		5	se.	se.	0	0	cloudy	M. de Villemontée, Dir.
Commercy, Normal School	29.20	741.7	30.08	763.9	49.1	9.5	53	se.			1		5 kn	se.	se.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.62	701.5	30.20	767.0	49.4	8	46	s.			1		1 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.02	737.2	30.16	766.0	55.9	13.3	43	s.			2		3		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.37	745.9	30.18	766.5	52.5	11.4	61	nw.			1	c				0	0		M. Ablard, Director.
Guéret, Normal School	28.45	722.6	30.02	762.4	48.7	9.3	76	sw.			4		kn		wsw.	0	0		M. Delorme, Dir.
Lescar, Normal School	29.50	749.3	30.06	763.6	59.7	15.4	54	s.			1		0			0.063	1.6	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.73	755.2	29.84	757.8	52.5	11.4	82	wsw.			2		10		ssw.	0.031	0.8	covered	L. T. Carré, Director.
Lyon, St. Genis-Laval	29.05	737.8	30.10	764.5	51.3	10.7	42	s.			6	5 c			wnw.	0	0	cloudy	M. André, Director.
Mans, Normal School	29.68	753.9	30.00	761.9	46.6	8.1		sw.			4		10					raining	M. Richard, Director
Marseille, Observatory	29.92	759.9	30.19	766.8	59.4	15.2	45	sse.			1		5		ese.	0	0		M. Stephan, Director.
Montlouis	24.84	630.8	29.68	753.8	38.3	3.5	62	w.	18.6	8.3			6	nw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.06	763.6	30.17	766.4	51.8	11.	85	ese.			2		5		ssw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.30	744.1	30.09	764.2	50.7	10.4	44	se.			1		cn			0	0		M. Hasse, Director.
Nantes, Observatory	29.77	756.2	29.93	760.3	51.1	10.6	84	s.			2–4		10 n			0.008	0.2	Heavy rain	M. Larocque, Director.
Perpignan, Observatory	30.07	763.7	30.18	766.6	54.1	12.3	86	se.	9.4	4.2			10		s.	0.039	1.0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.17	537.8			26.2	— 3.2		w.			1		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.11	739.3	30.19	766.9	49.3	9.6	50						k	n.	n.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.14	638.5			36.0	2.2	81	wsw.			3		8			0.004	0.1		M. Allnard.
Rochefort, Naval Obs'y	30.12	765.0	30.15	765.8	54.3	12.4	68	s.			4		5		sw.	0.28	7.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.80	757.0	30.02	762.6	47.5	8.6	97	s.			1		10			0.004	0.1	raining	M. Brotier, Director.
Rodez, Normal School	27.95	709.8	30.13	765.3	47.7	8.7		w.			1		5		w.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.86	758.5	29.91	759.7	48.2	9	84	ese.			1		10	ese.		0	0	covered	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.83	757.7	30.00	761.9	48.7	9.3	70	ssw.			2					0	0		M. Renou, Director.
Toulouse, Observatory	29.37	746.1	30.10	764.5	52.5	11.4	85	sse.			4		5	se.		0	0	cloudy	M. Baillard, Director.
Tours	29.81	757.2	29.99	761.8	51.8	11.0	80	s.			2		10		sw.			rainy	M. de Tastes.
Versailles, Observatory	29.48	748.7	29.97	761.2	47.5	8.6	76	sw.			2		5			0.142	3.6	cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.90	759.5	30.05	763.3	60.8	16.0	42	s.	13.9	6.2		2 c				0	0		M. Cartier, Director.
German.																			
Ansbach	28.66	728.0	30.13	765.4	47.8	8.8	52	sw.			2		0			0	0		Prof. Jnedt.
Bamberg	29.26	743.1	30.10	764.6	45.1	7.3	50	calm			0		2 s			0	0		Prof. Dr. Hoh.
Berlin	29.93	760.2	30.08	764.0	45.1	7.3	80	s.			1		10			0	0		Meteorological Institute
Breslau	29.56	750.9	30.10	764.4	45.9	7.7	60	wnw.			2		0			0	0		Royal University Obs'y
Carlsruhe	29.63	752.6	30.10	764.4	52.2	11.8	54	sse.			1		8	sw.		0.008	0.2		Albert Senz.
Cassel	29.36	745.7	30.07	763.8	45.0	7.2	77	s.			1		8	s.		0.016	0.4		Dr. H. Möhl.
Frankfort-on-the-Main	29.74	755.5	30.12	765.1	44.1	6.7	76	sw.			1		8			0	0		Physical Society.
Friedrichshafen	28.69	728.8	30.16	766.0	39.6	4.2	80	sw.			2		1	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.96	761.0	30.05	763.3	47.8	8.8	81	sw.			2		4			0.059	1.5		E. Preller.
Kiel	30.00	762.0	30.02	762.4	46.6	8.1	85	sw.			2		0			0.035	0.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.69	754.0	30.11	764.8	50.7	10.4	68	sw.			2		8	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.88	759.0	30.08	763.9	51.1	10.6	73	sw.			1		10			0	0		Weather Observatory.
Memel	30.06	763.5	30.11	764.7	31.5	— 0.3	89	n.			4		10 ks						Issermann.
Munich	28.28	718.3	30.15	765.8	46.6	8.1	44	nw.			2		0			0	0		Central Station.
Neufahrwasser	30.04	763.0	30.06	763.4	37.8	3.2	92	n.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.57	751.0	30.10	764.4	49.8	9.9	61	s.			1		3	w.		0	0		Prof. Dicknether.
Stuttgart	29.12	739.7	30.03	762.7	50.0	10.0	56	n.			1		4	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.00	761.9	30.02	762.5	40.6	4.8	97	se.			1		10			0	0	dense fog	Profs. Brandes & Reimer
Greek.																			
Athens	29.68	753.9	30.08	763.9	47.3	8.5		n.			1.0	0	9			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	30.00	761.9	30.05	763.2	75.9	24.4	64	wsw.	26.0	11.6			3			0	0	d. clouds	
Deesa	29.48	748.7	29.95	760.8	82.8	28.2	25	n.	9.0	4.0			2	nw.		0	0	d. clouds	
Bombay	29.91	759.7	29.95	760.7	77.9	25.5	69	nw.	22.0	9.8			0			0	0	blue sky	
Poona, Yarrowda	28.06	712.7	29.89	759.2	86.9	30.5	19	nw.	29.0	13.0			1			0	0	d. clouds	
Belgaum	27.37	695.3	29.87	758.7	85.3	29.6	28	wsw.	6.0	2.7			4	w.	n.	0	0	d. clouds	
Lahore	29.26	743.1	30.02	762.5	69.7	20.9	36	calm	0	0			0			0	0	blue sky	
Roorkee	29.06	738.1	29.98	761.5	69.7	20.9	28	w.	1.5	0.7			0			0	0	blue sky	
Agra	29.43	747.6	30.00	762.1	77.2	25.1	26	nw.	6.0	2.7			0			0	0	blue sky	
Nagpur	28.87	733.3	29.91	759.6	83.1	28.4	32	calm	0	0			4		w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.60	726.5	29.97	761.2	78.1	25.6	38	nw.	2.0	0.9			1	nw.		0	0	blue sky	
Lucknow	29.62	752 2	30.00	762.0	74.2	23.4	31	nnw.	7.0	3.1			0			0	0	blue sky	
Allahabad	29.67	753.5	29.98	761.6	75.9	24.4	42	calm	0	0			0			0	0	blue sky	
Patna	29.77	756 0	29.96	760.9	74.9	23.8	37	wnw	4.6	2.1			0			0	0	blue sky	
Hazaribagh	27.93	709 3	29.97	761.3	70.6	21.4	34	wnw.	6.0	2.7			0?					thud'rstorm	
Cuttack	29.86	758.6	29.95	760.6	84.1	28.9	47	calm	0	0			10			0	0	overcast	
Calcutta, Alipore	29.94	760 4	29.96	761.0	77.4	25.2	48	wnw.	3.0	1.3			0			0	0	blue sky	
Dhubri	29.83	757.6	29.95	760 7	75.0	23.9	53	calm	3.5	1.6			2			0	0	d. clouds	
Chittagong	29.89	759.2	29.98	761.6	75.6	24.2	65	calm	2.5	1.1			0			0	0	blue sky	
Sibsagar	29.69	754.1	30.05	763.2	58.8	14.9	94	se.	2.0	0.9			2			0.05	1.3	blue sky	
Jeypore	28.55	725 2	30.02	762 5	73.6	23.1	34	nnw.	5.8	2.6			4		nnw.	0	0	d. clouds	
Zanzibar	29.88	758.8	29.90	759 4	84.7	29.3	68	wnw.	1.6	0.7			2	se.		0	0	d. clouds	
Bellary	28.43	722.1			88.0	31.1	20	e.	6	2.7		0	0			0	0	blue sky	
Trichinopoly	29.69	754.1			83.9	28.8	40	e.	0.3	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.80	757.0	30.22	767.6	46.6	8.1	36	w.	1.8	0.8			0			0	0		Prof. Giovanni Clodig.
Milan	29.71	754.5	30.24	768.0	44.6	7.0	49	sw.	2.5	1.1			1			0	0		Prof. G.V.Schiapparelli
Padua	30.10	764.6	30.22	767.5	43.7	6.5	48	calm	0	0			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.27	743 5	30.20	767 0	45.9	7.7	38	ene.	0.7	0.3			1	e.		0	0		Prof. F. F. Denza.
Genoa	30.01	762.3	30.20	767.1	52.3	11.3	38	s.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Pesaro	30.19	766.7	30.24	768.0	42.8	6.0	60	n.	5.6	2.5			0			0	0		Prof. Luigi Guidi.
Florence	29.96	761.0	30.22	767.6	42.8	6.0	51	ne.			2		0			0	0		Prof. Costantino Pittei.
Leghorn	30.08	763.9	30.15	765.7	48.9	9.4	42	ene.	4.3	1.9			0			0	0		Prof. P. Monte.
Rome	30.00	762.1	30.18	766.6	51.1	10.6	32	n.	1.3	0.6			0			0	0		Prof. P. Tacchini.
Lecce	29.85	758 3	30.11	764.9	51.1	10.6	61	nne.	15.0	6.7			4	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.29	744.0	30.20	767.1	48.2	9.0	73	wnw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.87	758 7	30.13	765 2	54.9	12.7	60	ne.	4.3	1.9			9			0	0		Prof. G. Caccintore
Syracuse	30.10	764.5	30.14	765.6	53.4	11.9	62	nne.	15.0	6.7			8	nne.		0	0		Sig. V. Giulino.
Sub-series.																			
Naples, Astron'l Obs'y	29.64	752.9	30.10	764.6	50.4	10.2	56	e.	0.7	0.3			1			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.18	766.7	30.21	767.3	22.0	— 5.6	100	n.			2	0	0			0	0	clear	H. Hattori.
Awomori	30.15	765.8	30.19	766.8	29.0	— 1.7	84	ssw.	3.3	1.5			9s;ks			0.050	1.3	overcast	K. Ogawa.
Hakodate	30.19	766.8	30.20	767.1	29.8	— 1.2	81	nnw.	12.0	5.4		0	0			0	0	clear	Y. Souma.
Hamamatsu	30.00	762.0	30.10	764.5	47.7	8.7	58	calm			0		10 s			0	0	overcast	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.09	764.2	30.10	764.6	42.1	5.6	85	w.	0	0			10 s			0	0	cloudy	Y. Okamoto.
Kagoshima	30.11	764 8	30.13	765.3	45.4	7.4	88	n.			2		10 n			0.217	5.5	raining	
Kanazawa	29.99	761.8	30.10	764.5	38.6	3.7	65	e.	8.9	3.9			9 s			0	0	cloudy	S. Endo.
Kioto	29.91	759.6	30.08	764.0	37.0	2.8	80	n.	2.4	1.1			10 s			0.038	1.0	cloudy	M. Tojima.
Kochi	30.04	762 9	30.06	763.4	46.9	8.3	87	ssw.	2.3	1.0			10 s			0.066	1.7	overcast	K. Kusunose.
Miasaki	30.07	763.8	30.10	764.5	47.0	8.3	93	nnw.			1		10 n		e.	0.488	12.4	raining	K. Masusaki.
Miyako	30.10	764.4	30.20	767.2	25.3	— 3.7	78	w.	1.0	0.4		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	29.93	760 2	30.14	765 5	44.6	7.0	84	calm	0	0			9 s			0.100	2.5	cloudy	
Nemuro	30.12	765.0	30.17	766 3	12.9	—10.6	66	calm	0	0		0	0			0	0	clear	A Shibuya.
Niigata	30.08	764 0	30.12	765.0	31.0	— 0.6	82	e.	0.5	0.2		0?	0?			0	0	fair?	Satoo & Tomikawa.
Nobiru	29.99?	761.7?	30.00?	762.1?	29.1	— 1.6	77	nnw.	5.1	2.2		0	0			0	0	clear	Yoshino & Midzushina.
Numadzu	30.08	764.0	30.11	764.9	43.0	6.1	70	ese.			2		10 ks			0.024	0.6	overcast	T. Ohgi.
Osaka	30.06	763.6	30.08	764.0	39.7	4.3	78	ne.	6.4	2.9			10 s			0.085	2.1	cloudy	H. Omura.
Sakai	30.09	764.4	30.10	764.6	39.9	4.4	81	ne.			2	0	5 s		ene.	0.126	3.2	fair	Yamawchi & Sakamoto.
Sapporo	30.14	765.6	30.21	767.4	17.0	— 8.3	84	calm	0	0		0	1 s			0.092	2.3	clear	S. Kimura.
Shimonoseki	29.98	761.5	30.13	765 2	43.8	6.6	86	sw.			1		10 s			0.102	2.6	cloudy	S. Sakano.
Wakayama	30.00	761.9	30.05	763.3	40.6	4.8	76	calm	0	0			10 s			0.090	2.4	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.75	755.6	29.94	760.5	81.0	27.2	72	ene.	10.0	4.5		4cs;0	5ks;ks		ene.	0.05	1.3	cloudy	The Staff.
MEXICAN.																			
Leon	24.40	619.7	30.25	768.3	46.2	7.9	70	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina
Mazatlan	29.88	759.0	30.15	765 7	64.0	17.8	94	nnw.	0.9	0.4		1 cs	0			0	0	foggy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.91	759.8	29.91	759 8	47.1	8.4		s.			4					0	0		
Groningen	29.97	761.1	30.02	762.5	46.8	8.2		ssw.			2					0	0		
Helder	29.89	759 3	29.89	759.3	45.1	7.3		s.			4					0.059	1.5		
Hellevoetsluis	29.92	760.0	29.92	760.0	49.1	9.5	83	sse.			2					0.031	0.8		
Utrecht	29.92	759 9	29.97	761.3	50.2	10.1	74	s.			2		7			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.2			74.5	23.6	91	w.	0	0			10			1.142	29.0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.66	753.4	29.72	755 0	48.2	9.0	87	s.	27	12			8			0.031	0.8		
Brono	29.82	757.4	29.86	758 4	33.4	0.8	47	calm			0		0			0	0		
Christiania	29.80	757.0	29.96	761 0	25.2	— 3.8	80	ene.	9	4			7			0	0	foggy	
Gjesvær	29.88	758.9	29.90	759.5	28.0	— 2.2		s.			2		10			0.094	2.4		
Lodingen	29.88	759 0	29.93	760.2	34.2	1.2	78	calm			0		8			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.20	767 1	30.29	769.4	57.4	14.1	57	ese.	3.8	1.7			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.91	759.6	30.25	768.3	55.9	13.3	73	ssw.	10.1	7.2			8			0	0		The Staff.
Ponta Delgada, Azores	29.97	761.3	30.04	763.1	62.6	17.0	73	wsw.	16.1	7.2			4			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.01	762.2	30.04	763.0	68.0	20.0	76	ene.			2		2			0	0	hazy	
San Salvador, Congo	28.00	711 3	29.80	756.8	88.7	31.5	52	n.			1		5			0	0		
Serra da Estrella	25.36	644.0	30.21	767.4	37.8	3.2	86	w.	8.7	3.9			7			0.016	0.4	foggy	
RUSSIAN.																			
Akmolinski	28 03	734.8	30.10	764.5	13.8	—10.1	100	sw.	31	14			10 n			0.016	0.4		Major K. Lasarew.
Archangel	29.70	754 3	29.72	754 8	— 0.2	—21.2	86	ssw.	4	2		0	0			0	0		Capt. Sselliwerstow
Ashurada	30.30	769.5	30.20	767 1	49.5	9.7	63	nnw.	20	9		6 ck	0			0	0		
Astrakhan	30.21	767.4	30.13	765.4	29.5	— 1.4	76	w.	7	3			10 n			inap.	inap.		Capt. Wisganow.
Baku	30.20	769 3	30.24	768.1	39.7	4.3	68	calm	0	0		0	5k;ks			0	0		
Barnaul	29.98	761.4	30.53	775 5	7.9	—13.4	81	sw.	9	4			1			0.055	1.4		Meteorological Office.
Bieloserska	29.19	741.5	29.09	754.0	19.8	— 6.8	84	calm	0	0			9 ks			0.055	1.4		
Dorpat	29.65	753 1	29.91	759.6	25.3	— 3.7	87	nnw.	7	3			10 n			0	0		Observatory.
Ekaterinburg	28.66	727.9	29.71	754.6	1.9	—16.7	83	calm	0	0			10					snowing	Meteorological Obs'y
Elissawetgrad	29.45	748.1	29.03	760.1	32.2	0.1	79	sw.	9	4			10 ks			inap	inap.		
Kasan	29.70	754 3	30.00	76[illegible].9	0.7	—17.4	84	sw.	4	2			1			0	0		Observatory.
Kem	29.80	756.8	29.85	758.1	14.0	—10.0	84	n.	13	6			10			0	0	h'vy clouds	
Kertch	30.05	763.3	30.08	763 9	37.9	3.3	62	sw.	4	2			10 n			0	0		Gazorio & Sastyrea.
Kief	29.13	740 0	29.79	756.7	34.7	1.5	85	nw	9	4			10 n			0.031	0.8		Observatory.
Kostov	29.28	743.6	29.80	757 0	25.3	— 3.7	83	ssw.	9	4			10 s			0.315	8.0	snowing	
Lgov	29.17	740 9	29.78	756 4	25.5	— 3.0	86	ssw.	27	12			10					light snow	R. I. Ssaweljew, Engin'r.
Libau	29.98	761.4	30.00	762.0	31.3	— 0.4	72	nnw.	7	3			10			0.114	2.9		[illegible]
Lugan	29.78	756 3	29.98	761 8	26.8	— 2.9	64	sw.	9	4			10			0	0		Meteorological Obs'y
Moscow	29.11	739 4	29.61	752.2	23 7	— 4.6	90	sw.	7	3			10 n					snowing	Meteorological Obs'y
Nertschinsk	28 25	717.5	30.87	784.2	— 5.8	—21.0	80	calm	0	0			0			0	0		
Nikolaiev	29.91	759.7	29.98	761.5	39.2	4.0	58	sw.	9	4			9 n			0	0	light clouds	Capt. Kurdakow.

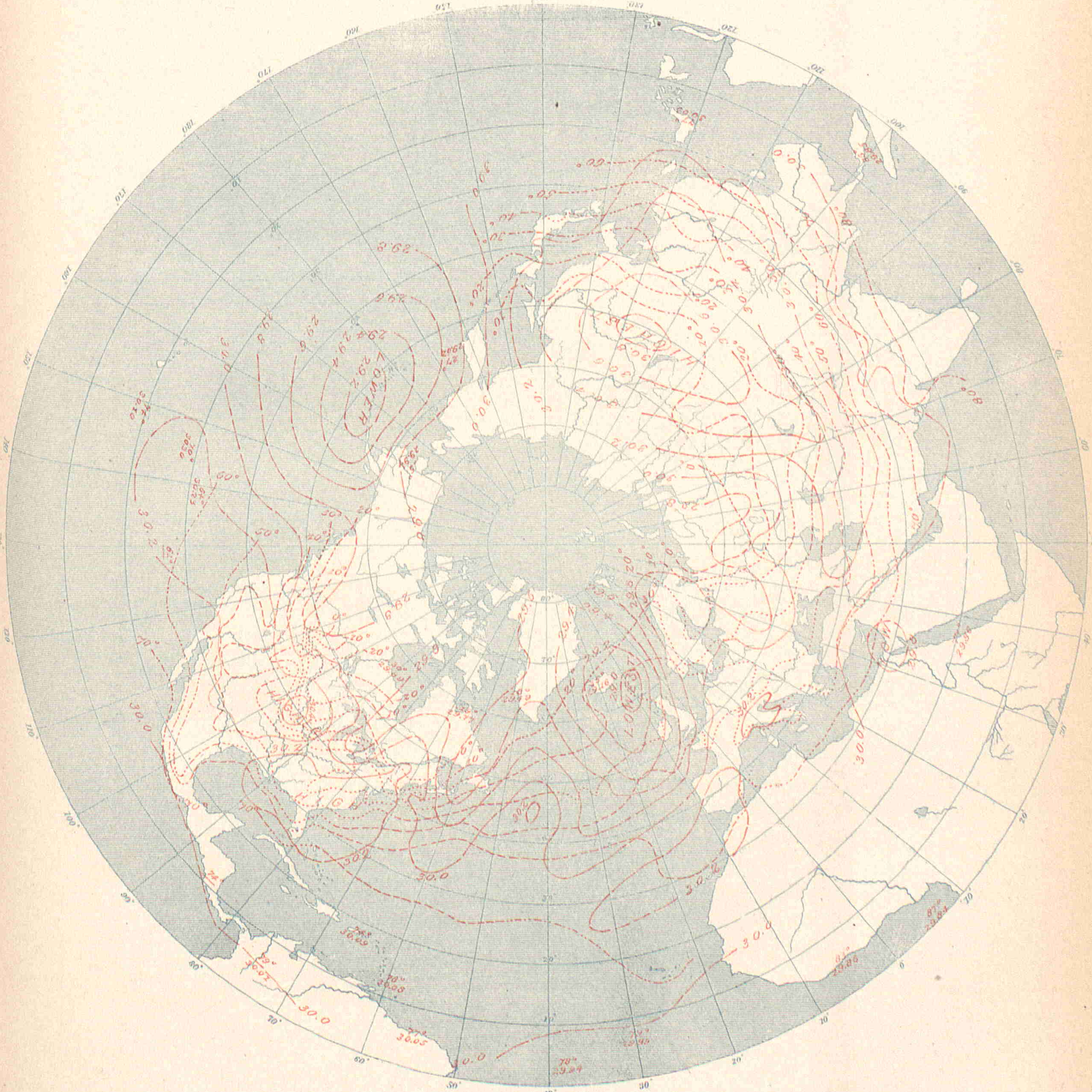
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	30.30	769.6	30.39	771.8	6.1	—14.4	67	calm	0	0		0	0						Iwanow.
Pekin, China	30.41	772.3	30.55	775.9	30.0	— 0.6	35	calm	0	0		0	0						Siang.
Petro-Alexandrovsk	29.95	760.6	30.31	769.9	40.1	4.5	50	s.	1.1	0.5			10						Walter.
Petrozavodsk	29.50	749.2	29.71	754.5	21.0	— 6.1	79	calm	0	0			10			0.055	1.4	light clouds	Dr. Bergmann.
Pinsk	29.42	747.2	29.93	760.3	34.7	1.5	83	nw.	18	8			10 s			0.043	1.1		
Poti	30.06	763.3	30.09	764.3	41.9	5.5	79	calm	0	0			0			0	0		
St. Petersburg	29.78	756.5	29.81	757.1	21.9	— 5.6	93	wnw.	16	7			10 n			inap	inap.		Central Physical Obs'y.
Samarkand	27.75	704.9	30.34	770.6	35.2	1.8	69	calm	0	0			10 n						Dresch.
Semipalatinsk	29.84	757.9	30.57	776.5	9.5	—12.5	81	calm	0	0			5			0	0		Major Lasarew
Sevastopol	29.87	758.7	30.09	764.3	39.0	3.9	56	wsw.	11	5			10 n			0.020	0.5		
Staroi Bykhov	29.16	740.7	29.74	755.3	32.5	0.3	89	nw.	16	7			10			0	0		Carl Hagen.
Tashkend, Laboratory	28.61	726.7	30.39	772.0	29.5	— 1.4	85	calm	0	0			9 k					light clouds	Terca, A. M.
Tiflis	28.77	730.8	30.26	768.7	33.6	0.9	40	calm	0	0		0	0			0	0		Physical Observatory.
Vernoe	27.74	704.7	30.47	773.8	16.2	— 8.8	80	calm	0	0			10 n						Sariono.
Viatka	29.24	742.8	29.96	760.9	— 9.8	—23.2	64	wsw.	2	1			0			0	0		
Vladivostock	30.24	768.0	30.30	769.7	13.5	—10.3	62	n.	22	10			4 s			0	0		
Warsaw	29.61	752.1	30.05	763.2	37.0	2.8	86	n.	9	4		c	10 ks						Astronomical Obs'y.
Yeniseisk	30.12	765.1	30.44	773.1	14.0	—10.0	61	calm	0	0			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.99	736.3	29.52	749.8	24.4	— 4.2	79	sse.	6.8	3.0			10 n		se.	0.17	4.3	snowing	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.06	763.5	30.17	766.3	55.9	13.3	90	sw.				0	6 kn			0.039	1.0	misty	B.J.Elin.
Bilbao, Met. Obs'y	29.97	761.3	30.03	762.8	61.7	16.5	51	sw.	3.1	1.4		2	4	sw.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.17	690.1	30.23	767.8	44.6	7.0	84	sw.	12.5	5.6		0	8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.99	711.0	30.29	769.3	46.2	7.9	82	se.	5.8	2.6			10			0	0	covered	The Staff.
Murcia, Met. Obs'y	30.07	763.7	30.19	766.7	64.0	17.8	58	nw.	3.6	1.6		0	2			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.01	736.8	29.91	759.7	52.7	11.5	98	s.	28.6	12.8			10			1.095	27.8	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.10	764.4	30.16	766.1	70.0	21.1	88	e.	0.9	0.4		4 ck	8	se.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.98	761.4	30.03	762.8	76.9	24.9	81	se.	7.7	3.4		0	8			0	0	fair	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.18	766.4	30.28	769.0	55.2	12.9	67	n.	4.5	2.0		0	1		n.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	30.00	762.0	30.09	764.3	74.1	23.4	75	nw.				1 c	3 k		nw.	0.165	4.2	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.91	759.6	29.95	760.6	22.1	— 5.5	96	n.			2		9			0.028	0.7		
Umea	29.89	759.1	29.94	760.4	23.0	— 5.0	90	n.			2		0			0	0		
Hernosand	29.89	759.2	29.94	760.5	17.6	— 8.0	83	calm			0		0			0	0		
Stockholm	29.78	756.3	29.95	760.8	25.9	— 3.4	87	wsw.			2		10			0	0		
Wisby	29.92	759.9	29.98	761.4	31.3	— 0.4	89	nw			2		7			0.067	1.7		
Sub-series.																			
Upsala	29.85	758.2	29.94	760.4	24.8	— 4.0	81	sw.	2.2	1.0			3		sw.	inap.	inap.		H.H.Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.10	764.5	42.1	5.6	69	ne.	12	5.5			9		ne.	0	0		The Observatory.
Valona			30.11	764.7	55.0	12.8		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.77	756.2	59.5	15.3	76	nw.			1		10 n		sw.	0.018	0.5		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.18	766.6	30.27	768.8	18	— 7.8	69	ne.	7	3.1		0	2 s		nw.	inap.	inap.	clear	J. O. Barnes.
Alpena, Michigan	28.98	736.1	29.70	754.4	22.8	— 5.1	88	s.	10	4.5			10 n			0.08	2.0	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.12	638.0	30.22	767.6	24.1	— 4.4	74	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.91	683.5	29.95	760.7	—10.0	—23.3	100	e.	6	2.7			10 s			inap.	inap.	cloudy	F. Newman.
Atlanta, Georgia	29.11	739.4	30.33	770.4	31.0	— 0.6	57	n.	6	2.7		0	0			0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.28	769.1	30.29	769.4	25.0	— 3.9	64	w.	3	1.3		1 c	0	w.		0	0	clear	B.A.Blundon.
Augusta, Georgia	30.18	766.6	30.38	771.6	38	3.3	77	calm	0	0		0	sk.			0	0	clear	W.J.Evans.
Baltimore, Maryland	30.28	769.1	30.32	770.1	35	1.7	53	w.	2	0.9			10 s		w.	0	0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	30.27	768.8	30.29	769.4	26.0	— 3.3	76	nw.	10	4.5		0	0			0.01	0.3	clear	F.L.Johnson.
Bennett, Fort, Dakota	28.52	724.4	30.25	768.3	— 9.0	—22.8	58	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	26.87	682.5	29.87	758.7	4.5	—15.3	89	calm	0	0			10 s		s.	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.17	715.5	30.15	765.8	— 8.0	—22.2	100	s.	2	0.9		0	9 s		nw.	0.06	1.5	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.21	767.3	30.24	768.1	22.0	— 5.6	80	n.	18	8.0		0	0			0.68	17.3	clear	J. T. Etker.
Boise City, Idaho	27.27	692.6	30.23	767.8	43.7	6.5	68	nw.	14	6.3			10 n			0.09	2.3	light rain	James Kenealy.
Boston, Massachusetts	30.06	763.5	30.22	767.6	19.0	— 7.2	61	nw.	15	6.7		9 ck	0	nw.		0.55	14.0	cloudy	O. B. Cole.
Brownsville, Texas	30.04	763.0	30.10	764.5	53.3	11.8	100	e.	5	2.2		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.29	744.0	30.08	764.0	24	— 4.4	93	s.	11	4.9			10 s		sw.	0.01	0.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.85	707.4	30.06	763.5	— 5.7	—20.9	94	s.	12	5.4		3 c	5 s			inap	inap.	cloudy	A. Schneider.
Cairo, Illinois	29.79	756.7	30.21	767.3	39.8	4.3	66	sw.	6	2.7		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.88	758.9	30.08	764.0	46.0	7.8	100	se.	12	5.4			10 n			0.48	12.2	light rain	J.H.Young.
Cape Henry, Virginia	30.32	770.1	30.34	770.6	35.0	1.7	69	n.	10	4.5		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.30	769.6	30.33	770.4	30.0	— 1.1	77	nw.	14	6.3		4 cs	0	w.		0	0	fair	W.E.Smith.
Cape Mendocino, California	29.67	753.6	30.37	771.4	47	8.3	100	nw.			1	0	6 s		nw.	0	0	fair	A. P. Leavitt.
Cedar Keys, Florida	30.27	768.8	30.29	769.4	44.5	6.9	52	ne.	12	5.4		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.24	768.1	30.30	769.6	46.0	7.8	60	ne.	10	4.5		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.43	747.5	30.32	770.1	33.7	0.9	48	ne.	4	1.8		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.46	748.3	30.32	770.1	32.0	0.0	83	ne.	1	0.4		4 cs	fg.			0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	30.25	768.3	34.3	1.3	52	s.	16	7.2		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.20	741.7	29.95	760.7	27.1	— 2.7	76	nw.	20	8.9			10 ks; s		nw.	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.31	769.9	30.33	770.4	30.5	— 0.8	55	n.	10	4.5		0	0			0	0	clear	C. F. Dickens
Cincinnati, Ohio	29.40	746.7	30.09	764.3	36.3	2.3	74	s.	4	1.8		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.22	742.2	30.01	762.2	31.0	— 0.6	57	s.	18	8.0			10 s		s.	0	0	cloudy	W. Line.
Columbus, Ohio	29.17	740.9	30.07	763.8	30	— 1.1	78	se.	9	4.0		0	0			inap.	inap.	clear	F. T. Williams
Concho, Fort, Texas	28.19	716.0	30.21	767.3	37.0	2.8	92	calm	0	0		0	1 k		sw.	0	0	clear	C. E. King.
Custer, Fort, Montana	26.61	675.9	29.97	761.2	4	—15.6	76	w.	4	1.8		0	9 ks			0.11	2.8	cloudy	W. J. Daily.
Davenport, Iowa	29.53	750.0	30.23	767.8	7.2	—13.8	68	nw.	20	8.9		4 cs	0	nw.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	30.24	768.1	37.8	3.2	73	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.24	717.3	30.06	763.5	39	3.9	69	sw.	12	5.4		9 k	0	sw.		0.46	11.7	cloudy	H.S.Blandford.
Deadwood, Dakota	25.19	639.8	30.11	764.8	26.4	— 3.1	75	sw.	10	4.5			10 s			0.03	0.8	cloudy	G.Kingsbury.
Delaware Breakwater, Del.	30.32	770.1	30.34	770.6	30.0	— 1.1	67	n.	15	6.7		0	2 s			0.01	0.3	clear	G.A.Martin.
Denver, Colorado	24.72	627.9	30.24	768.1	43.0	6.1	30	sw.	8	3.6		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.41	747.0	30.38	771.6	0	—17.8	68	n.	14	6.3		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.15	740.4	29.90	759.4	39.1	3.9	82	n.	28	12.5		10 cs	0	n.		0	0	cloudy	N.B.Conger.
Dodge City, Kansas	27.60	701.0	30.34	770.6	22	— 5.6	73	n.	10	4.5		0	0			0	0	clear	J.E.Lanouette.
Dubuque, Iowa	29.45	748.0	30.21	767.3	7.2	—13.8	63	w.	12	5.4		0	0			0	0	clear	J. Harvey Smith
Duluth, Minnesota	29.35	745.5	30.16	766.1	— 5.0	—20.6	79	w.	18	8.0		0	0			0.09	2.3	clear	E.R.Brace.
Eastport, Maine	29.97	761.2	30.04	763.0	6.0	—14.4	76	nw.	20	8.9		0	0			1.39	35.3	clear	D. C. Murphy.
Elliott, Fort, Texas	27.39	695.7	30.29	769.4	34	1.1	68	ne.	16	7.2		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.30	669.5	30.24	768.1	39.1	3.9	64	w.	1	0.4		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.26	743.2	30.02	762.5	28.5	— 1.9	77	s.	20	8.9			10 s		w.	0	0	cloudy	C. A. Skaw.
Escanaba, Michigan	29.23	742.4	29.95	760.7	5.7	—14.6	87	n.	21	9.4		0	5 ks		n.	0.20	6.6	fair	L.M.Pindell.
Fort Smith, Arkansas	29.69	754.1	30.19	766.8	32.5	0.3	69	calm	0	0		3 cs	0	s		0	0	clear	J. B. Campbell.
Galveston, Texas	30.13	765.3	30.17	766.3	58.2	14.6	74	s.	6	2.7		0	7 ks		s.	0	0	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.12	739.0	29.83	757.7	26.6	— 3.0	86	w	36	16.1			10 s		w.	0.01	0.3	cloudy	Joseph E. Mueller
Grant, Fort, Arizona	25.30	642.6	30.16	766.1	39.2	4.0	69	ne.	6	2.7		0	0			0	0	clear	Chas. A. Read.
Hatteras North Carolina	30.31	769.9	30.32	770.1	39.0	3.9	59	ne.	11	4.9		0	0			0.03	0.8	clear	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.59	650.0	29.94	760.5	29	— 1.7	74	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	S. W. Morrison.
Huron, Dakota	28.81	731.8	30.33	770.4	—13.8	—25.4	68	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.16	740.7	30.02	762.5	33.2	0.7	58	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.10	764.5	30.14	765.5	53.7	12.1	81	s.	4	1.8	.....	0	2 s	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.26	768.6	30.31	769.9	42.5	5.8	84	nw.	7	3.1	.....	0	fg.	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.61	752.1	30.31	769.9	9.6	—12.4	69	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.15	765.8	30.17	766.3	70.3	21.3	82	ne.	16	7.2	.....	0	1 k	.....	ne.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.29	769.4	30.31	769.9	36.0	2.2	53	ne.	19	8.5	.....	0	0	.....	.....	0	0	clear	Wesley Blake.
Knoxville, Tennessee	29.23	742.4	30.31	769.9	27.8	— 2.3	95	ne.	1	0.4	.....	0	sk.	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.42	747.3	30.26	768.6	1	—17.2	72	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.46	748.3	30.41	772.4	11	—11.7	70	n.	18	8.0	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	29.12	739.6	29.99	761.7	31.0	— 0.6	78	calm	0	0	.....	3 k	4 ks	se.	.....	0.30	7.6	fair	C. E. Butler.
Little Rock, Arkansas	29.85	758.2	30.18	766.6	39.0	3.9	65	s.	1	0.4	.....	4 cs	0	.....	.....	0	0	fair	W. U. Simons.
Los Angeles, California	29.77	756.1	30.17	766.3	51.5	10.8	66	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.51	749.5	30.10	764.5	39.5	4.2	57	s.	11	4.9	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.56	750.8	30.28	769.1	31.0	— 0.6	72	w.	2	0.9	.....	6 ck	0	w.	.....	0	0	fair	Jno. Healy.
Mackinaw City, Michigan	29.02	737.1	29.72	754.9	9.0	—12.8	91	n.	16	7.2	.....	.....	10 n	.....	.....	0.50	12.7	heavy snow	D. B. Notson.
Macon, Fort, North Carolina	30.32	770.1	30.33	770.4	40.3	4.6	73	n.	10	4.5	.....	0	0	.....	.....	0.02	0.5	clear	William Daly.
Maginnis, Fort, Montana	25.16	639.1	29.91	759.7	27.8	— 2.3	37	nw.	14	6.3	.....	10 k	0	w.	.....	0	0	cloudy	F. Burke.
Marquette, Michigan	29.23	742.4	30.01	762.2	5.2	—14.9	77	nw.	16	7.2	.....	.....	10 s	.....	nw.	0.34	8.6	cloudy	J. Gilligan.
Memphis, Tennessee	29.86	758.4	30.21	767.3	38.0	3.3	34	se.	4	1.8	.....	.....	10 s; fg.	.....	.....	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.18	741.2	29.98	761.5	13.2	—10.4	74	nw.	30	13.4	.....	0	0	.....	.....	0	0	clear	S. W. Rhode.
Mobile, Alabama	30.25	768.3	30.29	769.4	36.7	2.6	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Montgomery, Alabama	30.08	764.0	30.32	770.1	36.5	2.5	85	e.	2	0.9	.....	0	fg.	.....	.....	inap.	inap.	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.09	738.0	30.19	766.8	—19	—28.3	100	s.	12	5.4	.....	0	0	.....	.....	0.14	3.6	clear	H. Bessant.
Mt. Washington, N. H.	23.31	592.1	29.93	760.2	— 5.0	—20.6	62	nw.	64	28.6	.....	2 cs	0	nw.	.....	0.32	8.1	clear	Edwd. A. Beals.
Nashville, Tennessee	29.62	752.3	30.23	767.8	34.2	1.2	77	s.	4	1.8	.....	7 c	0	sw.	.....	inap.	inap.	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.14	765.5	30.26	768.6	21	— 6.1	64	nw.	5	2.2	.....	7 c	0	.....	.....	0.14	3.6	fair	J. H. Sherman.
New London, Connecticut	30.21	767.3	30.26	768.6	21.5	— 5.8	52	nw.	6	2.7	.....	3 cs	0	w.	.....	0.45	11.4	clear	J. G. Lynch.
New Orleans, Louisiana	30.21	767.3	30.27	768.8	46.0	7.8	68	e.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	M. Herman.
New York, New York	30.12	765.0	30.31	769.9	23.4	— 4.8	52	w.	6	2.7	.....	0	3 s	.....	.....	0.01	0.3	clear	H. J. Penrod.
Norfolk, Virginia	30.27	768.8	30.30	769.6	36.1	2.3	61	calm	0	0	.....	0	0	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.24	691.9	30.34	770.6	21.2	— 6.0	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington Ty	30.00	762.0	30.04	763.0	39.0	3.9	89	s.	6	2.7	.....	.....	10 n	.....	.....	0.66	16.8	light rain	J. Dascomb.
Omaha, Nebraska	29.20	741.7	30.47	773.9	— 1.3	—18.5	62	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	29.82	757.4	30.17	766.3	21.3	— 5.9	53	se.	9	4.0	.....	8ck; cs	0	w.	.....	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.60	751.8	30.18	766.6	44.2	6.8	83	s.	7	3.1	.....	0	3 s	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.26	768.6	30.29	769.4	40.1	4.5	64	n.	6	2.7	.....	0	sk.	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.22	767.6	30.33	770.4	28.5	— 1.9	84	nw.	6	2.7	.....	5 cs	0	.....	.....	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.61	447.3	30.33	770.4	— 1.0	—18.3	79	w.	58	25.9	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.31	744.5	30.17	766.3	30.0	— 1.1	72	s.	6	2.7	.....	7 cs	0	sw.	.....	inap.	inap.	fair	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	—19.3	—28.5	85	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	G. A. Carden.
Port Huron, Michigan	29.13	739.9	29.86	758.4	31.3	— 0.4	88	s.	22	9.8	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.13	765.3	30.18	766.6	20.0	— 6.7	62	nw.	3	1.3	.....	8 cs	0	nw.	.....	0.80	20.3	cloudy	W. W. Eichelberger.
Portland, Oregon	30.03	762.7	30.10	764.5	45.8	7.7	87	s.	10	4.5	.....	.....	10 n	.....	.....	0.57	14.5	light rain	M. L. Hearne.
Prescott, Arizona	24.90	632.4	30.26	768.6	27.0	— 2.8	80	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	30.17	766.3	30.20	767.1	31.0	— 0.6	82	nw.	16	7.2	.....	10c; cs	0	nw.	.....	1.52	38.6	cloudy	C. N. Kitchel.
Red Bluff, California	29.98	761.5	30.35	770.9	39	3.9	100	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.91	759.7	30.16	766.1	51.6	10.9	95	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y.	29.40	746.7	30.11	764.8	22.5	— 5.3	73	s.	14	6.3	.....	10 k	hz.	w.	.....	0.01	0.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.70	754.4	30.26	768.6	46.3	7.9	80	s.	1	0.4	.....	.....	10 n	.....	.....	0.72	18.3	light rain	J. J. Nanry.
Sacramento, California	30.28	769.1	30.35	770.9	42.5	5.8	96	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.52	749.8	30.18	766.6	38.9	3.8	56	nw.	20	8.9	.....	hz.	0	.....	.....	0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.87	758.7	29.91	759.7	— 5	—20.6	87	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	Fred. H. Clarke
St. Paul, Minnesota	29.30	744.2	30.23	767.8	— 1.0	—18.3	83	w.	4	1.8	.....	3 cs	0	.....	.....	0.04	1.0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.08	738.6	30.05	763.3	—17.1	—27.3	77	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.74	653.8	30.30	769.6	36	2.2	58	calm	0	0	.....	6 k	0	sw.	.....	0	0	fair	J. Craig.
San Diego, California	30.06	763.5	30.13	765.3	49.0	9.4	93	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.23	742.4	29.95	760.7	34	1.1	72	sw.	22	9.8	.....	0	5 s	.....	sw.	0	0	fair	B. F. Hough.
Sandy Hook, New Jersey	30.28	769.1	30.31	769.9	24.8	— 4.0	64	nw.	12	5.4	.....	4 cs	0	.....	.....	inap.	inap.	fair	V. P. Chappel.
Sanford, Florida	30.19	766.8	30.24	768.1	53.0	11.7	86	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Marbury
San Francisco, California	30.27	768.8	30.34	770.6	49.0	9.4	91	n.	1	0.4	.....	0	fg.	.....	.....	inap.	inap.	clear	N. Gorom.
Savannah, Georgia	30.21	767.3	30.30	769.6	44.5	6.9	70	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	25.98	659.9	29.83	757.7	29	— 1.7	67	sw.	13	5.8	.....	7 k	0	w.	.....	0.04	1.0	fair	A. L. Mathews.
Shreveport, Louisiana	29.98	761.5	30.16	766.1	40.0	4.4	76	s.	2	0.9	.....	hz	0	.....	.....	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.80	756.9	29.87	758.7	22	— 5.6	66	e.	12	5.4	.....	0	0	.....	.....	0	0	clear	F. W. Fickett.
Smithville North Carolina	30.29	769.4	30.33	770.4	36.5	2.5	52	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.83	706.9	29.96	761.0	25.5	— 3.6	82	ne.	4	1.8	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	D. Moore.
Springfield, Illinois	29.45	748.0	30.18	766.6	21.5	— 5.8	71	nw.	26	11.6	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.07	687.6	30.20	767.1	39.5	4.2	58	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.81	757.2	.....	.....	43.5	6.4	96	w.	17	7.6	.....	.....	10 s	.....	w.	0.45	11.4	cloudy	R. Connor.
Thomas, Camp, Arizona	27.40	695.9	30.23	767.8	32	0.0	73	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.16	740.7	29.90	759.4	34.5	1.4	58	sw.	14	6.3	.....	2 ck	0	w.	.....	0	0	clear	A. Buell.
Unalaska, Alaska	29.00	736.6	29.02	737.1	38	3.3	82	e.	26	11.6	.....	.....	10 n	.....	.....	1.55	39.4	light rain	Samuel Applegate.
Vicksburg, Mississippi	30.00	762.0	30.28	769.1	39	3.9	53	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. Dill.
Washington, D. C.	30.21	767.3	30.33	770.4	30.3	— 0.9	78	se.	4	1.8	.....	.....	9 s	.....	.....	0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.16	664.5	30.28	769.1	22	— 5.6	76	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Wilmington, N. Carolina	30.27	768.8	30.33	770.4	36.0	2.2	57	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	29.02	737.1	30.44	773.2	— 5.8	—21.0	56	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	30.00	762.0	30.15	765.8	53.1	11.7	52	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.60	751.8	29.62	752.3	27.4	— 2.6	85	n.	44	19.7	.....	.....	10 n	.....	.....	.....	.....	snowing	George Cherurick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	.....	nw.	.....	.....	1	.....	10 n	.....	.....	0.62	15.7	raining	W. B. Jackson.
Bogota, U. S. C.	22.04	559.8	.....	.....	50.9	10.5	86	calm	0	0	.....	1 c	4 k	.....	se.	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.61	752.1	29.77	756.1	—19	—28.3	100	sw.	34	15.2	.....	0	0	.....	.....	0.06	1.5	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.10	764.5	72.3	22.4	77	n.	2	0.9	.....	.....	10 s	.....	e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77	25.0	91	e.	.....	.....	2	5 k	8 ks	e.	e.	0.240	6.1	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	79	26.1	85	calm	.....	.....	0	4 ck	3 ks	calm	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	92	ne.	.....	.....	2	0	6 ks	.....	ne.	0	0	fair	Earl Flint.
York Factory, B. A.	29.82	757.4	29.89	759.2	—30.0	—34.4	.....	sw.	17	7.6	.....	.....	10 n	.....	sw.	0.06	1.5	snowing	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.94	760.4	29.95	760.6	78.4	25.8	85	n.	6.5	2.9	.....	0	5 k	.....	n.	0	0	fair	P. Fasiani.
Naós, Bay of Panama	29.95	760.6	30.01	762.3	72.3	22.4	89	nw.	.....	.....	4	0	1 ks	.....	n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 44° 40′, W. 36° 00′			49	9.4		nw.			5		4?		nw.	4 h'r	4 h'r	mod.	nw.	cloudy?
S. S. Alvo, Petit Goave. Hayti, W.I*	30.03	762.7	70	21.1		n.			3		3		calm	2 h'r	2 h'r			fine.
S. S. Alleghany, Baltimore, Md †	30.30	769.6	32	0.0		e.			9				se.	0	0			cloudy.
S. S. Ailsa, Port Limon, Costa Rica, C. A			79.5	26.4	91	n.			1		0			0	0	sm'h		clear.
S. S. America, N. 41° 30′, W 59° 30′*	29.78	756.4	48	8.9	85	nw.			6		8		nw.	0	0	r'gh	nw.	cloudy.
S.S. Arizona, N. 45° 28′, W. 42° 01′	30.24	768.1	45	7.2		nnw.			2		3		nw.	0	0	mod	nw.	fine.
Schr. Arthur Burton, N. 30° 30′. W. 81° 16′ †	30.23	767.8				ne.			1		2		ne.	0	0	sm'h	ne.	fine.
S. S. Alps, N. 19° 07′, W. 75° 11′ *†	30.10	764.5	81	27.2		ne.			4		4		ne.	0	0	chop	ne.	
S. S. Adriatic, N. 43° 20′, W. 49° 30′						se.			3		5		s.			sm'h		fair.
Schr. Annie R. Lewis. N. 36° 16′. W. 74° 34′			44	6.7		nne.			3		2		ne.	0	0	r'gh	n.	clear.
S. S. British Crown, N. 41° 46′, W. 50° 46′†	30.07	763.8	45	7.2		sse.			4		8		sse.	0	0	sl't	s.	fair.
S. S. Circassian, N. 49° 05′ W. 34° 20′	29.90	759.4	38	3.3	81	nw.			5		7		nw.			5-6	nw.	showery.
S. S. Caracas, N. 37° 48′, W. 72° 30′*†	30.30	769.6	44	6.7	72	nnw.			5		0			0	0	rg'h	nnw.	clear.
S. S. Canada, (Br) N. 43° 21′, W. 45° 42′			49	9.4	100	s.			4		8			0	0	mod.	s.	cloudy
S. S. Canada, (Fr) N. 40° 30′, W. 66° 28′			33.8	1.		nw.			5	c		nw.		0	0	h'vy	nw.	clear.
S. S. Chalmette, N. 24° 35′, W. 83° 07′ *†	30.10	764.5	72	22.2		ne.			4		2		ne.	½ h'r	½ h'r	mod.	w.	clear.
S. E. J. Spicer. N. 38° 20′, W. 60° 30′	29.92	760.0	59	15 0	82	w.			5		10		wnw.	6 h'r	6 h'r	mod.	wsw.	cloudy.
S. S. France, N. 47° 36′, W. 32° 42′						nw.			6		5		n.	hail	hail	large	n.	fair.
S. S. Grecian, N. 42° 50′, W. 51° 08′	30.12	765.0	34	1.1	90	se.			3		10		sw.	0	0	sm'h		cloudy.
S. S. Hohenstaufen, N. 47° 09′, W. 35° 15′	29.90	759.4	45	7.2	84	n.			6		5		n.	6 h'r	6 h'r	h'vy	n.	fair.
S. S. Helvetia, N. 41° 24′ W. 47° 05′	30.09	764.3	46	7.8	84	s.			2		0			0	0	sm'h	e.	clear.
Bk. Idaho, N. 21° 35′, W. 84° 32′*†	30.12	765.0				nne.			3		2		ne.	0	0	sm'h		clear.
S. S. Iowa, N. 42° 14′. W. 65° 55′ †	29.98	761.5	26	—3.3		nw.			6		4		nw.	2 h'r	2 h'r	long	nw.	fair.
Schr. Jennie N. Huddell, N. 34° 25′, W. 76° 30′†	30.28	769 1	50?	10.0?		nne.			1		0			0	0	short	se.	clear.
Bg. L. & W. Armstrong, N. 38° 44′, W 71° 47′†	30.24	768 1				nnw.			3		1		nnw.	0	0	long	nw.	clear.
S. S. Lone Star, N. 28° 23′, W. 88° 08′*†	30.24	768.1	60	15.6		ne.			2		3		nw.	0	0	sm'h		clear.
S. S. Lessing, N. 49° 34′, W. 8° 57′	29.50	749.3	47	8.3		sw.			6		8		sw.	2 h'r	2 h'r	h'vy	sw.	cloudy.
S. S. Mentmore, N. 47° 14′, W. 36° 03′ *†	29.90	759.4				nw.			7		3		nw.	0	0	h'vy	nw.	stormy.
S. S. Marengo, N. 42° 25′, W. 68° 12′ *†	29.98	761.5	29	—1.7		nw.			6		6		nw.	1 h'r	1 h'r	r'gh	wnw.	fair.
S. S. Neckar, N. 43° 06′, W 45° 02′	30.10	764.5	47.0	8.3	92	var.			3-6		6		e.	0	0	sm'h	e.	fair.
S. S. Orinoco, Staten Island, N. Y †	30.30	769.6	28	— 2.2		wnw.			2		2		wnw.	1 h'r	1 h'r			clear.
S. S. Oregon, (Br) Liverpool, Eng *	29.53	750.0																
S. S. Ohio, (Am) N. 48° 48′, W 32° 00′*†	29.78	756.4	41	5.0	82	nw.			4		4		nw.	12 h'r	12 h'r	r'gh.	wnw.	fair.
S. S Pennsylvania, N. 42° 45′, W. 44° 30′ †	30.10	764.5	49	9.4	93	e.			4		6		sw.	0	0	mod.	n.	fair.
S. S. P. Caland, N. 49° 52′, W. 8° 10′*	29.46	748.3	48	8.9	92	ssw.			6		6		s.			6	ssw.	squally.
S. S. Rhein, N. 49° 16′, W. 12° 55′	29.44	747 8				w.			6		10		w.	8 h'r	8 h'r	high	w.	squally.
S. S. Rhyniand, N. 42° 25′, W. 61° 31′	29.75	755.6	37	2.8	81	nnw.			6		8		nnw.	3 h'r	3 h'r	mod.	nw.	rainy.
S. S. Scandinavian, N. 55° 16′, W. 5° 26′	29.30	744.2	43	6.1		sse.			6		10		sse.	hv'y	hv'y	short	sse.	raining.
S. S. Samaria, N. 43° 34′, W. 46° 45′	30.07	763.8	44	6.7		ese.			3		5		ese.	0	0	long	e.	fair.
S. S. Sallier, N. 43° 52′, W. 52° 17′						sse			4		3		s.	0	0	light	sse.	fair.
S. S. Valencia, La Guayra, Venezuela †	30.05	763.3	78	25.6	73	ne.			4		3		ne.	0	0	h'vy	ne.	fair.
S.S. Pennland, N. 48° 32′. W. 24° 36′			47	8.3	92	nw.			6		7		nw.	16 h'r	16 h'r	high	nw.	squally.
Schr Adda Doane, Port Antonio, Jamaica W.I†	30.11	764.8				s.			2		2		se.	0	0			clear.
Bg. Alcira. N. 22° 14′, W. 74° 10′			79	26.1		ene.			3		1			0	0	sm'h	ne.	clear.
S. S. Cienfuegos, St. Jago, Cuba, W. I	30.10	764.5	74	23.3		n.			1		0			0	0			clear.
Bk. Chas. Stewart, N. 37° 45′, W. 0° 08′ *†	30.10	764.5				w.			2		2		w.	0	0	mod.	w.	clear.
Bk. Cato, N. 41° 14′, W. 13° 28′ †	30.01	762.2	59	15.0	94	sw.			6		8		sw.	0	0	cross	sw.	rainy.
S. S. Gallia, N. 51° 04′, W. 19° 48′	29.28	743.7	42	5.6		nw.			7		8		nw.	rain	rain	high	nw.	squally.
S. S Habsburg, N. 47° 33′, W. 32° 53′	29.85	758.2				n.			6-7		8		nnw.	2 h'r	2 h'r	high	var.	squally.
S. S. New York, N 38° 07′, W. 74° 30′ *†	30.30	769.6	45?	7.2?		nne.			3		2		se.	0	0	mod	ne.	clear.
S. S. Rialto, N. 49° 51, W. 10° 08′			51	10.6		sw.			7		5		sw.	2 h'r	2 h'r	mod.	sw.	
S. S. Sirius, N. 34° 37′, W. 70° 26′	30.21	767.3				nnw.			3		10		n.	0	0	r'gh	wnw.	overcast
Ft. Saga, N. 31° 34′, W. 80° 30′ †	30.22	767.6	55	12 8					3-9		1		wnw	0	0	mod.		clear.
S. S. Vaderland, N. 41° 49′, W. 61° 00′			41	5.0		wnw			6		8		n.	0	0			
S. S. Virginian, N. 46° 11′, W. 34° 00′			48	8.9		nne.			2		10		nne.	0	0	mod.	nnw.	cloudy.
S. S. Wyoming, N. 48° 52′. W 26° 16′	29.65	753.1	42	5.6		wnw.			6		7		nnw.	6 h'r	6 h'r	h'vy	nw.	squally.
S. S. Weser, N. 52° 23′ E. 3° 20′	29.91	759.7	44.6	7.0		ssw.			5		8		sw.	2 h'r	2 h'r	mod.	ssw.	cloudy.
S. S. Westphalia, N. 52° 19′, E. 3° 36′			40	4.4	91	sw.			4		4		w.	1 h'r	1 h'r	r'gh	w.	fair.
S. S. St. Laurent, N. 47° 25′, W. 31° 50′	29.82	757.3	42.8	6.0		nnw.			5		6		nnw.	snow	snow	large	n.w.	squally.
S. S. Crescent City, N. 35° 39′, W. 74° 14′*†	30.24	768.1	46	7.8		nne.			3								n.	fine.
U. S. Navy Yard, Portsmouth, N. H			18	— 7.8	68	nw.	22	9.8			0			0.5	13.			clear.
U. S. S. Alliance, St Thomas, W.I	30.12	765.0	75	23.9	72	ene.			3		8		ene.	light	light			cloudy.
U. S. S. Kearsarge, Palermo, Sicily	30.19	766.8	53	11.7	67	ssw.			1		2							fair.
U. S. S. Lancaster, Naples, Italy	30.19	766.8	55	12.8	93	ne.			1		0			0	0	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	30.21	767.3	23	— 5.0		nw.			4		0					sm'h		clear
U. S. S. Portsmouth, Fortress Monroe, Va	30.34	770.6	35	1.7	100	ne.			2		2							clear
U. S. S. Powhatan, Boston, Mass	30.21	767.3	21	—6.1	100	nw.			5		10							cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.12	765.0	53	11.7	54	n.			1		0					sm'h		clear.
U. S. S. Swatara, Port au Prince, Hayti, W.I.	30.08	764.0	74	23.3	90	s.			1		2		s.	0	0	sm'h		clear.
U. S. S. Trenton, N. 38° 08′, E. 15° 38′	30.14	765.5	56	13.3	63	sw.			3		2					sm'h		fair
U. S. S. Vandalia, Curacoa, W. I	30.02	762.5	75	23.9	86	ene.			2		5		e.					fair.
U. S. S. Yantic, New York, N. Y	30.31	769.9	27	— 2.8	76	wnw.			2		5							fair.
H. M. S. Alexandra, N. 32° 59′, E. 24° 44′	29.99	761 7	60	15.6	55	n			3		4		n.			4	nnw.	d. clouds.
H. M. S. Alecto, N. 4° 45, W. 4° 00′	29.86	758.4	83	28.3		sw.			1		2		wsw.			3	ssw.	d. clouds.
H. M. S. Boadicea, N. 4° 37′, W. 3° 38′			83	28 3	91	se.			1		3		ese.			1	ese.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.02	762.5	63	17.2	57	wnw.			4		6		nw.					d. clouds.
H. M. S. Himalaya, N. 32° 19′, W. 64° 52′			64	17.8	62	nnw.			2		8		sse.					d clouds.
H. M. S. Minotaur, Terranova, Sicily	30.16	766.1	54	12.2	71	e.			3		8		sse.					d. clouds.
H. P. M. S. Douro, St Thomas, Gulf of Guinea	29.84	758.0	87.4	30.8	72	sse.			4		2		se.	4 h'r	4 h'r	3	se.	d. clouds.
S. S. British Princess, N. 48° 05′ W. 28° 30′ †	29.73	755.1	40	4.4		nw.			6		8		nw.	3 h'r	3 h'r	high	nnw.	clearing.
S. S. Lord Clive. N. 41° 10′, W. 54° 35′						s.			6		10		s.	0	0	cross	ese;s	cloudy.
S. S. Prussian, Glasgow, Scotland			30	— 1.1		e.			6		10			10 h'r	10 h'r			overcast.
S. S. Alpin, N. 19° 49′, W. 66° 55′						ese.			2				ese.	.0	0	sm'h	ese.	fine.
S. S. Dorian, N. 51° 48′, W. 7° 30′			44	6.7		sw.			6		8		sw.	sh'rs	sh'rs	long	sw.	overcast.
S. S. Carroll, N 42° 26′, W. 70° 10′ *†	30.26	768.6	21	— 6.1		nw.			4		3		nw.	h'vy	h'vy	short	nw.	clear
S S. Liandaff City, N. 49° 01′, W. 17° 47′*†	29.30	744.2	50	10.0		wnw.			8		6		nw.	hail	hail	h'vy	w.	squally.
S. S. Scythia, N. 40° 29′, W. 69° 02′	30.16	766.1				nw.			4		4		nw.	0	0	mod.	nw.	clear.
S. S. Wisconsin, N. 40° 34′, W. 68° —	30.07	763.8	33	0.6		wnw.			4		3		nw.	7 h'r	7 h'r	high	nw.	clear.
S. S. Bohemia, N. 46° 33′, W. 33° 36′						n.			5-8		7		n.	0	0	h'vy	n.	squally.
S. S. Rugia, N. 44° 00′, W. 45° 10′			40	4.4		e.			4		0?			0	0	long	e.	fair.?
S S. Archimede, (It.) Gibraltar, Mediterranean			64	17.8		wsw.			2		1		w.	0	0			cloudy.
S. S. Picqua, N. 44° 06′, W. 12° 45′ *†	29.80	756.9	57	13.9	100	sw.			4				w.	2 h'r	2 h'r	high	wnw.	cloudy
S. S. Texas, N. 29° 16′, W. 79° 30′			67	19.4	84	ese.			1		3?			0	0	sm'h		cloudy?
S. S. Ontario, off Mine Head, Ireland			44	6.7		ssw.			7		4		ssw.	4 h'r	4 h'r	high	sw.	squally.
S. S. Denmark, Nore Lt, Eng †	29.75	755.6	48	8.9	100	sw.			5		10		sw.	sh'rs	sh'rs	sm'h		drizzling.
S. S. England, N. 46° 47′, W. 38° 04′	30.11	764.8				nw.			4		2		nw.	0	0	high	n.	d. clouds.
S. S. Erin, New York, N. Y †	30.26	768.6	26	— 3.3		w.			5		0			0	0			fine.
S, S. Leipzig, N. 6° 55′, W. 29° 46′*	29.99	761.7	79.0	26.1	98	ne.			5		9		sw.	0	0	sm'h	ne.	covered.
S. S. Strassburg, N. 32° 07′, W. 15° 18′	30.31	769 9	64.0	17.8	50	e.			1-2		10		e.	0	0	2	nw.	cloudy.
S. S. City of Augusta, Savannah, Ga						ssw.			4		4		ssw.	0	0			foggy.
S. S. Muriel, St. Kitts, W.I	30.16	766.1	76	24.4		ene.			3		10			3 h'r	3 h'r	sm'h		raining.
S. S. Waesland, Antwerp, Belgium	29.89	759.2	47	8.3		ssw.			5		10		ssw.	0	0			cloudy.
S. S. Westernland, N. 44° 43′, W. 43° 16′	30.20	767.1	44	6.7	68	calm			0		0			0	0	light	ne.	clear.
S. S. W. A. Scholten, Rotterdam, Holland			49.3	9.6	90	sw.			6		8		ssw	0	0			

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Zaandam, N 51° 02', W. 1° 35'	.....	.....	50.2	10.1	86	sw.	.....	.....	3	.....	10	.....	.....	0	0	sm'h	.....	foggy.
S. S. State of Nebraska, N. 43° 06', W. 46° 47' *†	30.09	764.3	46	7.8	.....	se.	.....	.....	3	.....	9	.....	se.	.....	.....	sm'h	.....	cloudy.
S. S. Saxon, N. 42° 08', W. 70° 00'	.....	.....	24	— 4.4	.....	nnw.	.....	.....	4	.....	4	.....	.....	0	0	.....	.....	fair.
S. S. Celtic, Liverpool, Eng*†	29.63	752.6	55?	12.8?	.....	ssw.	.....	.....	6	.....	9	.....	sw.	7 h'r	7 h'r	.....	.....	raining.
S. S. Republic, N. 45° 56', W. 41° 17'	.....	.....	51	10.6	72	ene	.....	.....	3	.....	2	.....	n.	0	0	long	ene.	d. clouds.
S. S. Lepanto, N. 40° 04', W. 10° 04'	30.11	764.8	57	13.9	.....	ssw.	.....	.....	5	.....	8	.....	ssw.	0	0	h'vy	w;nw	cloudy.
S. S. Romano, Hull, Eng	.....	.....	42	5.6	.....	sw.	.....	.....	4	.....	3	.....	s.	0	0	.....	.....	hazy
S. S. Salerno, N. 42° 30', W. 58° 10'†	29.70	754.4	52?	11.1?	.....	w.	.....	.....	5	.....	10	.....	w.	1.0	25.	h'vy	var.	raining.
S. S. Antonio Lopez, Barcelona, Spain	30.15	765.8	58	14.4	73	e.	.....	.....	2	7 c	.....	.....	.....	0	0	.....	.....	fair.
Bgt. Achsah, N. 25° 08', W. 60° 14'†	30.15	765.8	74	23.3	.....	nne.	.....	.....	3	.....	4	.....	ne.	0	0	mod.	ne.	clear.
S. Armenia, N. 47° —', W. 22° 40' *	29.59	751.6	48	8.9	70	w.	.....	.....	7	.....	3	.....	w.	2 h'r	2 h'r	h'vy	wnw.	fine.
S. S. Bracadale, N. 42° 18', W. 44° 50'	.....	.....	.....	.....	.....	se.	.....	.....	2	.....	9	.....	sse.	0	0	sli't	e.	overcast.
Bk. Benjamin Dickerman, N. 25° 20', W. 55° 15'*†	30.14	765.5	71	21.7	.....	nnw.	.....	.....	5	.....	3	.....	n.	0	0	long	n.	fair.
S. Cornelius, N. 41° 20' W 54° 00' *†	29.97	761.2	61.7?	16.5?	.....	s.	.....	.....	8	.....	8	.....	sw.	0	0	cross	var.	cloudy.
S. Dora, N. 43° 52', W. 36° 00'†	29.95	760.7	47.8	8.8	.....	wnw.	.....	.....	4	.....	6	.....	nw.	2 h'r	2 h'r	light	nnw.	gloomy.
S. David Stewart, Orchilla, Venezuela	.....	.....	79	26.1	.....	ene.	.....	.....	4	.....	2	.....	ene.	sh'rs	sh'rs	.....	.....	
Schr. Edith R. Seward, N. 24° 37', W. 55° 24'†	30.06	763.5	72	22.2	.....	nnw.	.....	.....	1	.....	5?	.....	n.	¼ h'r	¼ h'r	mod.	nw.	clear ?
Bk. Fred W. Carlon, Progreso Roads, Mexico	.....	.....	80	26.7	.....	ese.	.....	.....	4	.....	0	.....	.....	0	0	mod.	ne.	clear.
Bk. Gleire, N. 32° 56', W. 72° 41'	.....	.....	58	14.4	.....	nne.	.....	.....	1	.....	1?	.....	nne.	1 h'r	1 h'r	short	nnw.	cloudy.?
Bk. Godeffroy, N. 3° 33', W. 38° 07'	29.94	760.5	77.9	25.5	97	nnw.	.....	.....	3	0	8 k	s.	n.	light	light	mod.	nne.	cloudy.
Bk. George Davis, N. 40° 30', W. 37° 25'*†	29.92	760.0	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	ne.	0	0	mod.	nne.	cloudy.
Bk. Galeon, Grimsby Roads, Eng†..	29.69	754.1	.....	.....	.....	ssw.	.....	.....	3	.....	4	.....	ssw.	0	0	.....	.....	squally.
Bk. Hattie G. McFarland, N. 20° 14', W. 82° 01'†	30.14	765.5	77	25.0	.....	ene.	.....	.....	5	.....	2	.....	ne.	0	0	short	.....	fine.
S. Henry, N. 42° 44', E 15° 44' *	30.20	767.1	50.2	10.1	.....	nw.	.....	.....	4	3 ck	0	.....	.....	.....	.....	2	nnw.	fair.
Bg. John Wesley, N. 35° 03', W 75° 04'	.....	.....	.....	.....	.....	ssw.	.....	.....	8	.....	10	.....	sse.	2 h'r	2 h'r	h'vy	ssw.	cloudy.
Schr. Jas. Slater, N. 39° 02', W. 71° 54'*†	30.25	768.3	.....	.....	.....	nw.	.....	.....	4	.....	0	.....	.....	0	0	r'gh	n.	
Bg. John Welsh, jr., N. 28° 18', W. 75° 28' †	30.25	768.3	.....	.....	.....	nne.	.....	.....	3	.....	.....	.....	ne	.....	.....	long	n.	
Schr. Joh Bird, N. 35° 15', W. 73° 15'	.....	.....	.....	.....	.....	nne.	.....	.....	1	.....	10	.....	ne.	0	0	h'vy	nw.	overcast.
S. S. Laurel, Key West, Fla†	30.17	766.3	73	22.8	.....	nne.	.....	.....	2-3	.....	2	.....	ne.	sh'rs	sh'rs	.....	.....	clear.
Bg. L. F. Munson, N. 26° 48', W. 74° 08'	.....	.....	72	22.2	.....	n.	.....	.....	3	.....	9	.....	nw.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. Madrid, Portland, Eng†..	29.75	755.6	50	10.0	86	ssw.	.....	.....	4	.....	6	.....	ssw	1 h'r	1 h'r	r'gh	sw.	fair.
Schr. Minnie A. Bonsall, Brunswick, Ga *†	30.32	770.1	.....	.....	.....	s.	.....	.....	1	.....	.....	.....	sw.	0	0	light	.....	clear.
Schr. Maggie Abbott, N. 27° 10', W. 72° 40' *†	30.16	766.1	.....	.....	.....	n.	.....	.....	5	.....	8	.....	w.	sh'rs	sh'rs	long	wsw.	cloudy.
Schr. Norena, Ponce, Porto Rico, W. I	.....	.....	.....	.....	.....	n.	.....	.....	1	.....	1	.....	ene.	0	0	.....	.....	fine.
Bk. Orpheus, N. 48° 39', W. 23° 58'	.....	.....	44	6.7	.....	nw.	.....	.....	7	.....	8 k	.....	nw.	.....	.....	long	nnw.	squally.
Bk. Sunbeam, N. 38° 43', W. 57° 43'*†	29.95	760.7	65	18.3	89	sw.	.....	.....	6	.....	10	.....	w.	2 h'r	2 h'r	cross	var.	cloudy.
Bgt. Sunlight, N. 25° 00', W. 59° 35'†	30.08	764.0	.....	.....	.....	wnw.	.....	.....	3	.....	4	.....	nne.	1 h'r	1 h'r	sm'h	.....	fair.
S. St. David, N. 22° 08', W. 41° 38' *†	30.12	765.0	74.3	23 5	72	ssw.	.....	.....	2	.....	3	.....	var.	2 h'r	2 h'r	long	ne.	fine.
S. Stephen D. Horton, Antwerp, Belgium†	29.98	761.5	.....	.....	.....	s.	.....	.....	4	.....	8	.....	ssw.	0	0	.....	.....	cloudy.
S. Vincenzo Accame, N. 37° 14', W. 47° 45'†..	30.05	763.3	64.4	18	.....	e.	.....	.....	4	.....	10	.....	e.	0	0	r'gh	ne.	
S. S. Maasdam, N 40° 38', W 66° 00'	.....	.....	40.1	4.5	.....	nnw.	.....	.....	3	.....	.....	.....	.....	.....	.....	high	.....	fair.
S. S. Strathleven, N. 49° 04', W. 17° 32'	.....	.....	.....	.....	.....	w.	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	.....	squally.
S. Frank N. Thayer, N. 39° 16', W. 70° 55'*	30.22	767.6	35	1.7	70	nnw.	.....	.....	6	.....	1 k	.....	nne.	0	0	r'gh	var.	blue sky.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.99	761.7	71	21.7	80	nne.	.....	.....	2	.....	2	.....	calm	.....	.....	.....	.....	clear.
H. M. S. Amethyst, Flores Island, Uruguay	29.90	759.4	72	22.2	76	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Opal, Simons Bay, Cape Colony	29.85	758.2	70	21.1	85	ssw.	.....	.....	2	.....	7	s.	.....	.....	.....	.....	.....	raining.
H. M. S. Sylvia, First Narrow, Patagonia	29.38	746.2	48.2	9.0	70	wnw.	.....	.....	5-7	.....	4	calm	.....	.....	.....	.....	.....	squally.
H. P. M. S. Tejo, S 5° 44', E. 13° 19'	30.04	763.0	85.1	29.5	96	calm	.....	.....	0	.....	9	.....	.....	3 h'r	3 h'r	.....	.....	overcast.
H. P. M. S. Benzo, S. 3° 48', W. 2° 59'	29.86	758 5	85.6	29.8	79	sse.	.....	.....	4	.....	8	.....	s.	0	0	4	s.	d. clouds.
S. S. Hevelius, S. 26° 00', W. 42° 00'*†	30.10	764.5	76	24.4	.....	sse.	.....	.....	6	.....	9?	.....	s.	6 h'r	6 h'r	.....	.....	clear.?
S. S. Rosse, S. 11° 07', W. 36° 15'	29.86	758.4	83	28.3	69	e.	.....	.....	4	.....	3	.....	ese.	0	0	.....	.....	fine.
Bk. Adelaide, S 5° 39', W. 33° 19' *†	29.99	761.7	.....	.....	.....	ese.	.....	.....	5	.....	1	.....	e.	0	0	mod.	se.	clear.
Bk. Celestina, S. 24° 58', W. 38° 43' *†	30.05	763.3	.....	.....	.....	se.	.....	.....	3	.....	10	.....	var.	4 h'r	4 h'r	mod.	sse.	covered.
S. S. George S. Homer, S. 23° 03', W. 29° 17'*†	30.14	765.5	.....	.....	.....	calm	.....	.....	0	.....	4	.....	ne.	2 h'r	2 h'r	mod.	n.	squally.
S. Grecian, S. 30° 25', W. 30° 36' †	30.15	765.8	70	21.1	80	se.	.....	.....	0	.....	6	.....	se.	0	0	long	se.	fair.
S Henry Failing, S. 27° 23', W. 24° 13'*†	30.09	764.3	79	26.1	95	wnw.	.....	.....	5	.....	3	.....	nw.	0	0	sm'h	.....	clear.
Bk. Horace Scudder, Banana Creek, Guinea *†	30.00	762.0	80	30.0	.....	calm	.....	.....	0	.....	2	.....	calm	0	0	.....	.....	clear.
Bkt. Levanter, Montevideo, Uruguay*	29.97	761.2	71	21.7	.....	nne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Winifred, S. 8° 05', W. 34° 07'*†	30.00	762.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	e.	0	0	.....	se.	
S. S. Peniers, S. 34° 50', W. 55° 00'	29.99	761.7	69.6	20.9	78	ne.	.....	.....	4	.....	3 k	.....	.....	0	0	4	ne.	blue sky.
S. Orealia, S. 39° 40', E. 4° 00'*	29.90	759.4	.....	.....	.....	ne.	.....	.....	3	.....	8	.....	w.	0	0	sm'h	.....	cloudy.
District No. 3—North Pacific.																		
U. S. S Alert, Nagaski, Japan	30.14	765.5	43	6.1	75	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	rainy.
U. S. S. Essex, Canton, China..	30.21	767.3	60	15.6	94	nne.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Hartford, N. 19° 45', W. 148° 41'	30.10	764.5	74	23.3	90	ne.	.....	.....	2	.....	10	.....	e	0	0	long	s.	cloudy.
U. S. S Juniata, Nagasaki, Japan	30.17	766.3	47	8.3	92	n	.....	.....	1	.....	10	.....	n	light	light	.....	.....	cloudy.
U. S. S. Monocacy, N. 27 24', E. 121° 13'	30.38	771.6	50	10.0	65	ne.	.....	.....	3	.....	8	.....	ne.	.....	.....	mod.	ne.	fair.
U. S. S. Palos, Tientsin, China	30.53	775.4	32	0.0	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
H.M.S. Audacious, Victoria harbor, Hong Kong, China	30.17	766.3	64	17.8	89	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, N. 24° 26', E. 118° 05'	.....	.....	57	13.9	75	ene.	.....	.....	4	.....	0	.....	.....	.....	.....	1	.....	blue sky.
H. M. S. Champion, Shanghai, China	.....	.....	41	5.0	91	n.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Flying Fish, N. 24° 26', E. 118° 04'	30.27	768.8	56.2	13.4	85	e.	.....	.....	1-3	.....	2	.....	.....	.....	.....	.....	.....	squally.
H. M. S. Magpie, N. 5° 24', E. 100° 20'	29.85	758.2	85.5	29.7	61	wnw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	misty.
H. P. M. S. Tamega, Macao, China	30.22	767.6	66.2	19.0	76	nnw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	blue sky.
S. S. Newbern, N. 23° 38', W. 107° 38' *†	30.10	764.5	70	21.1	75	nw.	.....	.....	5	.....	3	.....	nw.	0	0	small	wnw.	clear.
S. S. Oregon, Portland, Oregon†	30.16	766.1	46	7.8	84	sw.	.....	.....	2	.....	10	.....	sw.	.....	.....	.....	.....	cloudy.
S. S. Alameda, N. 24° 55', W. 150° 58'†	30.13	765.3	70	21.1	.....	s.	.....	.....	3	.....	0	.....	.....	0	0	mod.	wnw.	clear.
S. S. Ancon, Point Conception, Cal.	30.11	764.8	58	14.4	58	nnw	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Chester, near Cape Mendocino, Cal †	30.41	772.4	49	9.4	93	nw.	.....	.....	4	.....	10	.....	.....	0	0	long	w.	light fog.
S. S. Queen of the Pacific, Seattle, Wash. Ter	.....	.....	46	7.8	92	sw.	.....	.....	5	.....	5	.....	sw.	0	0	.....	.....	fair.
S. S State of California, N. 46° 00', W. 124° 10'	.....	.....	47	8.3	92	s.	.....	.....	3	.....	10	.....	sw.	.....	.....	short	sw.	raining.
S. S Eureka, N. 56° 50', W. 133° 00'	.....	.....	20	— 6.7	100	ne.	.....	.....	3	.....	10	.....	.....	18 h'r	18 h'r	sm'h	.....	cloudy.
S. S. Australia, N. 28° 50', W. 145° 01'	30.30	769.6	70	21.1	90	ese.	.....	.....	3	.....	4	.....	se.	0	0	long	w.	clear.
S. S. City of Rio de Janeiro, N 22° 47', E. 116° 49'†	30.23	767.8	.....	.....	.....	ene.	.....	.....	0	.....	5	.....	var.	.....	.....	mod.	ne.	fair.
S. S. City of Sydney, N. 31° 46', W. 138° 31' *†	30.23	767.8	64	17.8	89	sse.	.....	.....	3	.....	6 ks	.....	sse.	.....	.....	mod.	w.	fair.
S. S. Colima, N. 7° 05', W. 81° 27'†	30.01	762.2	79	26.1	91	se.	.....	.....	4	.....	4	.....	se.	0	0	small	sw.	clear.
S. S. San Blas, N. 17° 08', W. 101° 06'†	29.98	761.5	75	23.9	90	nw.	.....	.....	3	.....	5	.....	.....	0	0	sm'h	sw.	hazy.
S. S. San Jose, N. 23° 13', W. 106° 25'*†	30.13	765.3	69	20.6	.....	nne.	.....	.....	3	.....	1	.....	n.	0	0	small	nw.	clear.
S. St. Francis, N. 27° 00', W. 129° 00'	.....	.....	61	16.1	71	nne.	.....	.....	4	.....	7	.....	ne.	2 h'r	2 h'r	mod.	nnw.	fair.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, Callao, Peru*	29.96	761.0	71	21.7	95	calm	.....	.....	0	.....	10	.....	calm	.....	.....	sm'h	.....	overcast.
H. M. S. Constance, S. 29° 37', W. 73° 00'	30.07	763.8	62	16.7	83	ssw.	.....	.....	4	.....	9	s.	.....	.....	.....	6	sw.	d. clouds.
H. M. S. Espiegle, S. 46° 36', E. 168° 22'	30.06	763.5	55	12.8	81	nw.	.....	.....	1	.....	3	w.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Lark, S. 36° 50', E. 174° 48'	29.74	755.4	66.3	19.1	84	calm	.....	.....	0	.....	10	.....	.....	.....	.....	sm'h	.....	raining.
H. M. S. Nelson, S. 42° 53', E. 147° 21'	29.70	754.4	59	15.0	94	nw.	.....	.....	1-4	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Zealandia, Sydney N. S .W	29.89	759.2	85	29.4	90	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	fine.
S. Ismir, S. 56° 23', W. 76° 44' *†	29.03	737.3	.....	.....	.....	w.	.....	.....	9	.....	5	.....	w.	3 h'r	3 h'r	high	w.	fair.
H. M. S. Liffey, S. 29° 55', W. 71° 21'	29.93	760.2	64	17.8	.....	n.	.....	.....	1	.....	8	n.	.....	.....	.....	sm'h	.....	
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.86	758.4	77	25.0	86	ne.	.....	.....	1	.....	5	sw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tourmaline, Mananhar, Madagascar	29.91	759.7	83	28.3	91	e.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.

International Chart I. February 21, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY.

By Order of the Secretary of War.

W.B. Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 22, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.21	767.2	63.0	17.2	78	w			1		0			0	0		Roziers.
Algiers			30.19	766.9	59.0	15.0	78	nne.			1		0			0.228	5.8		Thève.
La Calle			30.15	765.8	63.3	17.4	90	nne.			1		3			0	0		Fontrède.
Tunis			30.14	765.5	55.4	13.0	64	w.			3		1			0	0		Delord.
Geriville					53.6	12.0	33	sw.			3		1			0	0		Forfert.
Laghouat			30.21	767.4	65.5	18.6	81	e.			1		0			0	0		Abraham.
Biskra			30.20	767.1	61.9	16.6	73	calm			0		0			0	0		Gouzon.
Australian.																			
Adelaide, South Australia			30.26	768.6	58.9	14.9	79	s.	9	4.0			10 k					light rain	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.76	755.9	29.95	760.7	53.5	11.9	66	ssw.	5	2.2			9		sw.	0	0	cloudy	Com. J. Shortt, R.N.
Melbourne, Victoria	29.98	761.5	30.07	763.8	56.5	13.6	88	se.	1	0.4			10			0.45	11.4	raining	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.53	750.1	30.10	764.4	44.1	6.7	27	s.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.22	742.2	30.00	761.9	47.5	8.6	63	sw.	0.7	0.3			10			0.004	0.1		Dr. Wierzbiski
Eperies	29.17	740.8	30.08	764.1	35.6	2.0	75	calm			0		10			0	0	foggy	Julius Mikolik.
Gratz	28.81	731.7	30.08	764.1	43.7	6.5	57	s.			1		3			0	0		Andreas Rospini.
Hermannstadt	28.60	726.3	30.06	763.4	45.3	7.4	43	w.			3		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.69	728.6	30.06	763.5	42.1	5.6	61	calm			0		9			0	0	cloudy	The Staff.
Lemberg	29.02	737.0	30.04	763.0	36.7	2.6	84	ne.			1		10			inap.	inap.		Dr. T. Stanecki.
Pola	30.03	762.8	30.15	765.7	46.8	8.2	67	wnw.			4		1			0	0		I. R. Hydrographic Office.
Szathmar	29.57	751.1	30.05	763.2	43.9	6.6	49	sw.			3		0			0	0		Joseph Midlinszky, S. J
Szegedin	29.79	756.6	30.08	763.9	47.7	8.7	52	calm			0		0			0	0		Karl Stancel.
Trieste	30.08	764.0	30.18	766.5	46.0	7.8	57	nw.			1		8			0	0		Royal Academy.
Vienna	29.34	745.3	30.08	764.0	43.2	6.2	62	se.			1		2			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.50	724.0	29.90	759.5	43.9	6.6	96	sw.			1		4			0.236	6.0	raining	
Brussels	29.63	752.6	29.83	757.7	51.6	10.9	76	ssw.			2		10		var.	0.047	1.2		
Furnes	29.76	756.0	29.78	756.5	52.9	11.6	70	s.			0–1		8			0.003	1.6		
Maeseyck	29.73	755.1	29.85	758.3	53.4	11.9	68	sw.			2		7			0	0		
British.																			
Aberdeen	29.26	743.2	29.36	745.7	42.7	5.9	83	sse.	4	1.8			6			0.005	0.1	d. clouds	W. Boswell.
Bidston, Liverpool Obs'y			29.51	749.5	43.8	6.6	76	wsw.	17	7.6			7					d. clouds	John Hartnup.
Bolton, Sharples	28.96	735.6	29.49	749.0	41.5	5.3	83	sw.	18	8.0			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.07	738.4	29.47	748.5	43.5	6.4	76	sw.			5		4			0.04	1.0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.02	762.5	30.05	763.3	80	26.7	62	e.			3		2					d. clouds	Corp'l O. McGregor, A.H.C
Cardington					49.4	9.7	75	sw.			1.0		4					d. clouds	John McLaren.
Chatham, School M. E.	29.52	749.8	29.70	754.4	50.3	10.2	79	sw.			2		8			blank	blank	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.41	747.0	29.64	752.8	49.3	9.6	72	wsw.			2		10					overcast	The Staff.
Fort Napier, Natal	27.48	698.0	29.79	756.7	76.0	24.4	73	n.			1		10					raining	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.30	744.2	29.34	745.2	43	6.1	83	se.			3		7			0.01	0.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.97	761.2	30.17	766.3	61.0	16.1	86	e.			2		6					d. clouds	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.50	749.3	29.67	753.6	50.5	10.3	79	wsw.					9					d. clouds	The Staff.
Guernsey	29.37	746.0	29.67	753.6	48.0	8.9	92	sw.			2		10					overcast	A. Colleuette, F.R.M.S.
Kew, Observatory	29.64	752.8	29.68	753.9	50.5	10.3	66	sw.	21	9.4			9					d. clouds	The Staff.
Leicester, Museum	29.31	744.5	29.57	751.1	47.8	8.8	67	sw.			2		3					blue sky	J. C. Smith.
Malta, Mediterranean	30.11	764.8	30.18	766.6	56.0	13.3	55	ne.			2		8			0	0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.16	766.1	30.21	767.3	73.5	23.1	78	ne.			3		7					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.40	746.7	29.63	752.6	49.1	9.5	71	sw.			4		9					overcast	The Staff.
Plymouth	29.56	750.8	29.64	752.8	49.2	9.6	82	sw.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.24	742.7	29.34	745.2	43.4	6.3	89						6					d. clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.95	760.7	30.02	762.5	48.4	9.1	62	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.24	742.7	29.52	749.8	48.0	8.9	67	sw.			3		1					blue sky	W. F. Cooper.
Siloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss																			Rev. C. H. Griffiths, F.M.S
Valencia, Observatory					50.1	10.1	77	sw.			1.5		6					d clouds	Rev. C. H. Griffiths, F.M.S
Sub-series.	29.40	746.7	29.42	747.3	44.6	7.0	78	sw.	31	13.9			10			blank	blank	misty	The Met'g'l Office.
Gozo, Episcopal Seminary	29.75	755.6	30.15	765.8	53.6	12.0	54	nw.	5.0	2.2		0	2 k			0.04	1.0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.21	767.3	30.25	768.3	— 2.0	—18.9		calm	0	0		0	7 n			0.050	1.3	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.18	766.6	30.23	767.8	13	—10.6	100	se.	5	2.2		0	8 s		nw.	0.025	0.6	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.17	766.3	30.24	768.1	6	—14.4	100	nw.	2	0.9			10 n		nw.	0.07	1.8	light snow	G. A. Blair.
Cornwall, Ontario	30.06	763.5	30.27	768.8	— 1.5	—18.6	100	nw.			1	0	9 n			0.300	7.6	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.21	767.3	30.26	768.6	4.5	—15.3		w.			1		10 s			0.100	2.5	overcast	H. A. Johnson.
Father Point, Quebec*	30.21	767.3	30.24	768.1	11	—11.7	100	s	8	3.6		2 cs	2 s	calm	calm	0.10	2.5	clear	J. McWilliams
Fort Garry, Manitoba*	28.96	735.6	29.90	759.4	— 8	—22.2	100	nw.	16	7.2		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.18	766.6	30.25	768.3	14.1	— 9.9	80	e.	2	0.9			10 s			0.060	1.5	overcast	Prof. Thos. Harrison.
Grand Manan, N. B.	30.14	765.5	30.20	767.1	28	— 2.2	84	nw.	10	4.5		5 k	0	nw.		0.01	0.3	fair	J. Chipman Seeley
Granton, Ontario	28.96	735.6	30.16	766.1	15.5	— 9.2	97	se.	5	2.2		6 cs	0	sw.		0	0	d. clouds	Jas. Grant.
Halifax, N. S*	30.14	765.5	30.28	769.1	20	— 6.7	100	s.	4	1.8		8 k	0	sw.		inap	inap.	cloudy	A. Allison.
Hamilton, Ontario	29.65	753.1	30.09	764.3	21.1	— 6.1	78	sw.			1	4 ck	0	sw.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.91	759.7	30.28	769.1	9	—12.8	76	calm	0	0		0	0			0.05	1.3	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.21	767.3	30.25	768.3	19.0	— 7.2	100	e.	1	0.4			10 n			0	0	overcas	C. H. Rigby.
London, Ontario	29.20	741.7	30.17	766.3	17.8	— 7.9	82	s.			2	2 k	0			0.100	2.5	blue sky	E. B. Reed.
Medicine Hat, N. W. T.	27.82	706.6	30.36	771.1	2	—16.7	87	sw.	20	8.9			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	27.83	706.9	30.02	762.5	12	—11.1	100	nw.	12	5.4		0	0			0	0	clear	Rev. J. M. Wellwood
Montreal, Quebec*	30.06	763.5	30.29	769.4	9	—12.8	87	sw.	7	3.1		0	0			0.35	8.9	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.02	762.5	30.27	768.8	— 7.9	—22.2	100	wnw.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.36	745.7	30.13	765.3	4	—15.6	79	s.	15	6.7		5 k	2 ks	s.	s.	0.20	5.1	fair	Rev. R. Mosley.
Peterboro, Ontario	29.34	745.2	30.16	766.1	7.7	—13.5	66	se.			1	3 c	0	se.		0.06	1.5	blue sky	Wm. O'Connor, M.A.
Port Arthur	28.88	733.5	29.62	752.3	14	—10.0	86	sw.	5	2.2		8 k	0	w.		0	0	fair	W. P. Cooke.
Port Dover, Ontario	29.42	747.3	30.16	766.1	21	— 6.1	85	s.	6	2.7		8 cs	0	sw.		inap	inap.	fair	B. Morgan.
Port Stanley, Ontario	29.46	748.3	30.15	765.8	20	— 6.7	84	e.	20	8.9			8 k		sw.	inap.	inap.	cloudy	M. Payne.
Qu Appelle, N. W. T	27.68	703.1	30.25	768.3	— 9	—22.8		w.	20	8.9		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.87	758.7	30.27	768.8	2	—16.7	83	sw.	16	7.2		0	0			0.40	10.2	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.66	753.4	30.19	766.8	—15	—26.1	77	e.	2	0.9		8 c	0	w.		0.25	6.3	fair	W. H. McIntyre.
St. Andrews, N. B.	30.11	764.8	30.17	766.3	23	— 5.0	88	nw.	4	1.8		0	0			0.05	1.3	clear	
St. John, N. B	30.05	763.3	30.21	767.3	24.0	— 4.4	100	e.	4	1.8			10 n					snowing	G. Hutchinson.
St. Pierre, N. F.			30.12	765.0	19.4	— 7.0		nw.			2								The Commandant.
Saugeen, Ontario*	29.29	744.0	30.07	763.8	11	—11.7	96	s.	12	5.4			10 s			0.20	5.1	cloudy	
Stratford, Ontario	28.74	730.0	30.13	765.3	14.1	— 9.9	77	s.	1	0.4			10 s			0	0	overcast	W. McBride, M.A.
Sydney, C. B*	30.22	767.6	30.29	769.4	14	—10.0	83	w.	8	3.6			10 s			0	0	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.79	756.7	30.20	767.1	18	— 7.8	84	se.	10	4.5		0	2 s			0.06	1.5	clear	Magnetic Observatory.
Woodstock, Ontario	29.02	737.1	30.18	766.6	12.7	—10.7	92	s.				5 cs	0	w.		0.100	2.5	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.13	765.3	30.20	767.1	33	0.6	85	nw.	20	8.9		0	8 k		nw.	0	0	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.82	757.4	29.85	758.2	71.0	21.7	85	sw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.75	755.6			68.5	20.3	80	nw.				0	4 nk			0.42	10.7		Capt. R. Gardner Warton
Springbok Fontein	27.80	706.1			77	25.0	56									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.89	759.3	29.97	761.2	61.0	16.1	88	n.			1	10						cloudy	Samuel Redolez.
Iquique	29.92	760.0	29.95	760.7	68.9	20.5	84	sw.			3	4 c						foggy	Rafael Moreno.
Niebla	29.60	751.7	29.70	754.4	56.5	13.6	71	e.			2	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.87	758.8	29.96	761.0	64.4	18.0	80	nw.			1	10 c		nw.				cloudy	Manuel Tobar.
Punta Corona	29.04	760.4	30.12	765.1				nw.			2	4 n		w.		0	0	cloudy	Francisco Alvarado.
Valparaiso	29.82	757.4	29.96	760.9	61.0	16.1	87	s.			0	0	0					clear	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.51	775.0	30.54	775.6	34.7	1.5	72	nne.	4.5	2.0			6			0	0	fair	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.87	758.7	29.92	759.9	40.6	4.8	97	sse.	13	6.			10					hazy	Oversergent Fischer.
Fanöe	29.76	755.8	29.78	756.3	41.7	5.4	97	sse.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.76	755.8	29.80	756.9	5.5	—14.7	100	nw.			2-4		10						S. Kleinschmidt.
Ivigtut, Greenland	29.62	752.3	29.64	752.8	30.7	— 0.7		calm			0		10					snowing	
Jacobshavn, Greenland	29.59	751.5	29.63	752.7	10.8	—11.8		sw.			4		9					snowing	
Stykkisholm, Iceland	29.00	746.7	29.44	747.8	36.7	2.6	80	ne.			7		8						A. O. Thorlacius.
Thorshavn	29.39	746.5	29.41	747.1	42.8	6.0	84	se.	9	4.			10						Overloerer Bergh.
Upernavik, Greenland	29.29	744.0	29.34	745.2	12.0	—11.1		ssw.			7		10						
Vesterviig	29.65	753.0	29.74	755.3	41.2	5.1	95	sse.			6		10					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	29.81	757.2			56.3	13.5		sw.	5.4	2.4		6 ck	0			0.071	1.8		Albert Ismalun.
French.																			
Agen, Normal School	29.34	745.3	29.99	761.7	56.8	13.8	80	sse.			4	c	10 n	sw.	sw.	0.008	0.2		M. Labroue, Director.
Alençon, Normal School	29.26	743.1	29.81	757.1	50.0	10.	97	s.			1		10 n			0.047	1.2	covered	M. Nicot, Director.
Arras, Normal School	29.40	746.8			53.1	11.7	80	se.			1		8		se.	0	0	very cloudy	M. Ungerer, Director.
Avignon, Normal School	30.06	763.6	30.14	765.6	55.8	13.2	66	ese.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.39	746.5	29.95	760.8	47.8	8.8	93	s.			1		10					raining	M. Saillard, Director.
Beauvais, Normal School	29.58	751.4	29.85	758.1	53.2	11.8	74	s.			1		10		sw.	0.307	7.8	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.08	738.7	29.98	761.6	55.4	13.	75	sw.			4		10 n		ne.	0.04	1.	raining	M. Gobin, Director.
Bordeaux, Observatory	29.63	752.6	29.89	759.2	56.5	13.6	71	sse.			1		10			0.004	0.1	covered	M. Rayet, Director.
Bourges, Normal School	29.34	745.3	29.89	759.2	55.8	13.2	71	ssw.			1		n		ssw.	0.075	1.9		M. Sauvageot, Director.
Brest, Naval Observatory	29.50	749.3	29.74	755.5	49.6	9.8	89	sw.			2		10		sw.	0.071	1.8	raining	M. de Kermarée, Dir.
Caen, Normal School	29.70	754.4	29.78	756.3	53.6	12.	95	s.			1		5		s.	0.020	0.5	raining	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.64	752.8	29.96	760.9	52.9	11.6	86	s			1		10			0.079	2.0	covered	M. Jadot, Director.
Charleville, Normal School	29.37	746.1	29.82	757.4	48.9	9.4	66	ssw.			1		10		sw.	0.236	6.0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.57	725.7	29.92	760.0	55.9	13.3	57	sw.			2		10			0	0		M. Alluard, Director.
Cluny, Normal School	29.14	740.1	30.05	763.3	50.9	10.5	74	se.			6		8		se.	0.157	4.0	very cloudy	M. de Villemontée, Dir.
Commercy, Normal School	29.11	739.4	29.96	761.0	48.2	9.	90	sw.			1		8 n	sw.	sw.	0.059	1.5	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.60	701.0	30.16	766.1	48.2	9.	48	calm			0		2 k			0	0		M. Jarach, Director.
Grénoble, du Rhone	29.02	737.0	30.16	766.1	50.5	10.3	90	se.			2		10		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.30	744.3	30.09	764.3	54.0	12.2	53	nw.			1	5 ck			n	0	0	cloudy	M. Abiard, Director.
Guéret, Normal School	28.32	719.3	29.89	759.1	54.1	12.3	78	sw.			4		kn		sw.	0	0		M. Delorme, Dir.
Lescar, Normal School	29.34	745.1	29.89	759.1	66.6	19.2	48	se.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.62	752.4	29.72	755.0	49.3	9.6	84	calm			0		10		s.	0.496	12.6	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.95	735.4	30.02	762.4	51.6	10.9	80	s.			6		8 n			0.083	2.1	very cloudy	M. André, Director.
Mans, Normal School	29.68	753.9	29.99	761.8	51.3	10.7		sw.			6		8		s.	0.307	7.8	light rain	M. Richard, Director
Marseille, Observatory	29.88	759.0	30.16	766.0	53.6	12.0	77	e.			0-1		10		s.	inap.	inap.	light rain	M. Stephan, Director.
Montlouis	24.80	630.0	29.65	753.0	44.6	7.0	57	sw.	16.8	7.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.96	760.9	30.07	763.7	56.8	13.8	78	sse.			2		5		ese.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.16	740.7	29.95	760.7	46.8	8.2	89	ssw.			1				sw.	0.094	2.4		M. Hasse, Director.
Nantes, Observatory	29.65	753.2	29.81	757.1	51.1	10.6	95	s.			1-4		10			0.374	9.5	raining	M. Larocque, Director.
Perpignan, Observatory	29.96	760.9	30.07	763.8	56.8	13.8	66	ne.	5.6	2.5			7	wnw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.1			27.7	— 2.4		w.			6		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.96	735.5	30.04	762.9	49.6	9.8	84	s.			1		n	s.	s.	0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.06	636.6			39.0	3.9	82	ssw.			6		8			0	0		M. Alluard.
Rochefort, Naval Obs'y	29.84	757.9	29.87	758.7	54.0	12.2	86	s.			2		10			0.402	10.2	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.60	751.8	29.82	757.4	50.7	10.4	95	sw.			1					0.165	4.2		M. Brotier, Director.
Rodez, Normal School	27.95	709.8	30.12	765.0	53.4	11.9		nw.			4		10		nw.	0.004	0.1	covered	M. Seger, Director.
Rouen, Normal School	29.78	756.4	29.83	757.6	52.9	11.6	85	ese.			1		10	ese.		0.047	1.2	covered	M. Moullot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.71	754.6	29.87	758.8	52.9	11.6	76	sw.			1		10		sw.	0.173	4.4	covered	M. Renou, Director.
Toulouse, Observatory	29.25	743.0	29.98	761.4	58.1	14.5	64	sse.			4		8	w.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.66	753.4	29.84	758.0	54.7	12.6	78	sse.			1		10		sw.	0.039	1.0	rainy	M. de Tastes.
Versailles, Observatory	29.35	745.6	29.85	758.1	52.5	11.4	75	sw.			4		8			0.091	2.3	very cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.77	756.1	29.92	759.9	60.8	16.0	58	s.	4.0	1.8			8 k		wsw.	0.008	0.2		M. Cartier, Director.
German.																			
Ansbach	28.56	725.3	30.02	762.6	47.7	8.7	55	calm			0		10			0	0		Prof. Jnedt.
Bamberg	29.15	740.4	29.99	761.8	45.1	7.3	52	se.			2		6 ks			0.012	0.3		Prof. Dr. Hoh.
Berlin	29.77	756.1	29.91	759.8	46.8	8.2	65	s.			1		10			0	0		Meteorological Institute
Breslau	29.47	748.4	30.00	761.9	47.5	8.6	69	sse.			1		8	w.		0	0	light mist	Royal University Obs'y
Carlsruhe	29.53	750.1	30.00	761.9	50.2	10.1	73	sw.			2		10	sw		0.276	7.0		Albert Senz.
Cassel	29.21	741.8	29.92	759.9	46.2	7.9	68	s.			3		10	s.		0.055	1.4		Dr. H. Möhl.
Frankfort-on-the-Main	29.59	751.5	29.96	761.0	45.0	7.2	84	ssw.			1		10			0.059	1.5		Physical Society.
Friedrichshafen	28.62	727.0	30.07	763.7	45.3	7.4	73	sw.			1		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.79	756.7	29.88	759.0	44.2	6.8	94	ssw.			2		6			0.039	1.0		E. Preller.
Kiel	29.84	757.8	29.85	758.2	45.1	7.3	85	ssw.			2		10			0.031	0.8		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.55	750.5	29.97	761.3	40.4	8.0	81	s.			2		10	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.72	754.9	29.91	759.7	49.5	9.7	68	s.			2		10	sw.				light rain	Weather Observatory.
Memel	30.06	763.4	30.10	764.6	31.5	— 0.3	89	e.			2		10 s						Issermann.
Munich	28.19	716.0	30.05	763.3	51.3	10.7	40	calm			0		8	w.		0	0		Central Station.
Neufahrwasser	30.02	762.4	30.03	762.8	41.7	5.4	87	s.			1		10			0	0		A. Lothes.
Neustadt, Palatinate	29.44	747.8	29.97	761.1	50.0	10.0	78	wsw.			2		10			0.063	1.6		Prof. Dicknether.
Stuttgart	29.05	737.8	29.95	760.7	50.0	10.0	74	sw.			1		10			0.035	0.9		Prof. Dr. Schoder.
Wustrow	29.87	758.6	29.89	759.3	40.6	4.8	97	se.			2		10			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.63	752.7	30.02	762.6	55.0	12.8		n.			1.5	0	1			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.98	761.5	30.03	762.8	75.8	24.3	58	wsw.	15.0	6.7			10			0	0	gloomy	
Deesa	29.50	749.3	29.97	761.3	85.4	29.7	20	ne.	2.0	0.9			2	nw		0	0	d. clouds	
Bombay	29.90	759.4	29.94	760.3	79.4	26.3	70	nw.	18.0	8.0			0			0	0	blue sky	
Poona, Yarrowda	28.06	712.6	29.88	759.0	87.6	30.9	20	sw.	10.0	4.5			4			0	0	d. clouds	
Belgaum	27.39	695.7	29.91	759.7	81.6	27.6	48	wsw.	9.0	4.0			3	n.	e.	0	0	d. clouds	
Lahore	29.28	743.6	30.04	762.9	72.8	22.7	37	n.	2.0	0.9			0			0	0	blue sky	
Roorkee	29.08	738.5	29.99	761.7	73.7	23.2	29	w.	2.0	0.9			0			0	0	blue sky	
Agra	29.49	748.9	30.06	763.5	77.2	25.	29	nw.	2.0	0.9			6		w.	0	0	d. clouds	
Nagpur	28.91	734.2	29.94	760.6	84.4	29.1	32	e.	8.0	3.6			5		w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28 64	727.5	30.01	762.2	78.9	26.1	28	ne.	4.0	1.8			2		n.	0	0	d. clouds	
Lucknow	29.66	753.3	30.05	763.2	69.3	20.7	38	wsw.	2.0	0.9			0			0	0	blue sky	
Allahabad	29.72	754.9	30.04	763.0	76.2	24.6	37	nw.	2.0	0.9			0			0	0	blue sky	
Patna	29.83	757.7	30.02	762.5	73.9	23.3	38	nw.	3.3	1.5			0			0	0	blue sky	
Hazaribagh	27.98	710.8	30.04	762 9	70.1	21.2	30	nw.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.91	759.8	30.00	761.9	82.8	28.2	60	s.	1.0	0.4			5			0	0	d. clouds	
Calcutta, Alipore	29.99	761.7	30.01	762.3	77.0	25.0	52	w	2.5	1.1			0			0	0	blue sky	
Dhubri	29.90	759.3	30.02	762.4	73.0	22.8	54	calm	1.1	0.5			0			0	0	blue sky	
Chittagong	29.93	760.3	30.02	762.6	73.8	23.2	72	w.	2.5	1.1			2			0	0	d. clouds	
Sibsagar	29.76	755.8	30.11	764.8	59.7	15.4	91	se.	2.0	0.9			10	w.	w.	0.08	2.0	overcast	
Jeypore	28.59	726.2	30.06	763.4	75.4	24.1	30	nnw.	6.0	2.7			4	n.		0	0	d. clouds	
Zanzibar	29.84	758.0	29.87	758.6	87.2	30.7	54	ene.	14.6	6.5			1	nne.		0	0	d. clouds	
Bellary	28.44	722.4			90.0	32.2	22	e.	4	1.8		0	0			0	0	blue sky	
Trichinopoly	29.72	754.9			85.1	29.5	35	ene.	0.2	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.74	755 4	30.16	766.0	46.9	8.3	42	sw.	0.7	0.3			9			0	0		Prof. Giovanni Clodig.
Milan	29.61	752.0	30.14	765.5	46.4	8.0	56	nw.	4.9	2.2			6	wnw.		0	0		Prof. G.V.Schiapparelli
Padua	30.04	762.9	30.15	765.8	44.1	6.7	57	calm	0	0			9			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.20	741.7	30.13	765.2	46.4	8.0	39	nne.	0.7	0.3			8	nw.		0	0		Prof. F. F. Denza.
Genoa	29.99	761.7	30.18	766.6	50.0	10.0	68	se.	6.9	3.1			10	sw.		0	0		Prof. G. M. Garibaldi.
Pesaro	30.10	764.6	30.15	765.9	44.2	6.8	65	n.	4.9	2.2			0			0	0		Prof. Luigi Guidi.
Florence	29.92	760.0	30.18	766.6	44.2	6.8	49	ne.			2		6			0	0		Prof. Costantino Pittei.
Leghorn	30.00	762.0	30.07	763.8	52.9	11.6	60	w	1.3	0.6			10	w.		0	0		Prof. P. Monte.
Rome	30.01	762 2	30.19	766.7	52.5	11.4	38	w.	0.7	0.3			0			0	0		Prof. P. Tacchini.
Lecce	29.85	758.3	30.11	764.9	53.2	11.8	62	nnw.	16.1	7.2			4	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.24	742.8	30.15	765.9	49.3	9.6	74	nw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.98	761.4	30.23	767.9	53.1	11.7	54	ne.	3.8	1.7			1			0	0		Prof. G. Cacciatore
Syracuse	30.11	764.9	30.16	766.0	55.9	13.3	62	nne.	2.5	1.1			0			0	0		Sig. V. Giulio.
Sub-series.																			
Naples, Astron'l Obs'y	29.67	753.5	30.20	767.1	52.2	11.2	52	ne.	3.1	1.4			1			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.98	761.6	30.01	762.2	27.2	— 2.7	100	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	30.04	763.0	30.08	764.0	28.5	— 1.9	75	e.				0	0			0	0	clear	K. Ogawa.
Hakodate	30.11	764.7	30.12	765.0	16.0	— 8.9	88	ene.	0.6	0.3		0	0			0	0	clear	Y. Souma.
Hamamatsu	29.94	760.5	30.04	763.0	40.9	4.9	58	wnw.			6	0	0			0.008	0.2	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.21	767.3	30.22	767.7	37.0	2.8	89	n.	1.3	0.6		0	1 ck		ne.	0	0	clear	Y. Okamoto.
Kagoshima	30.27	768 8	30.28	769.1	38.9	3.8	82	calm			0	0	1 s			0	0	clear	
Kanazawa	29.98	761.5	30.09	764.2	37.6	3.1	79	w.	18.7	8.3		0	2 s			0.209	5.3	fair	S. Endo.
Kioto	29.98	761.5	30.15	765.9	37.9	3.3	68	nw.	2.7	1.2			9 s			0	0	cloudy	M. Tojima.
Kochi	30.14	765.7	30 17	766.2	43.3	6.3	68	nne.	5.2	2.3		0	3 s			0	0	fair	K. Kusunose.
Miasaka	30.18	766.6	30.21	767.3	42.2	5.7	72	wnw.			2	0	0			0	0	clear	K. Masuaki.
Miyako	29.99	761.7	30.10	764.5	29.7	— 1.3	74	nnw.	1.0	0.4			10 n;s			0.043	1.1	snowing	N. Homo & K. Suwa.
Nagasaki, I. M. Obs'y	30.08	764 0	30.29	769.3	37.3	2.9	75	calm	0	0		0	0			0	0	clear	
Nemuro	30.03	762.8	30.08	764.0	12.0	—11.1	66	calm	0	0		0	0			0	0	clear	A Shibuya.
Niigata	29.95	760.7	29.99	761.7	34.6	1.4	94	sw.	7.8	3.5			10 n		sw.	0.200	5.1	light rain	Satoo & Tomikawa.
Nobiru	30.03	762.7	30.04	763.1	32.7	0.4	87	nnw.	5.0	2.2			10 s			0	0	covered	Yoshino & Midzushina.
Numadzu	29.97	761.2	30.01	762.2	40.4	4.7	84	se.			2		10 n			0.098	2.5	light rain	T. Ohgi.
Osaka	30.14	765.6	30.16	766.0	36.7	2.6	77	n.	5.5	2.4		0	0			0	0	clear	H. Omura.
Sakai	30.20	767.1	30.21	767.3	39.8	4.3	63	n.			4		10 ks		nw.	0.020	0.5	cloudy	Yamawchi & Sakamoto.
Sapporo	30.07	763.7	30.14	765 5	20.8	— 6.2	80	calm	0	0			10 s			0	0	covered	S. Kimura.
Shimonoseki	30.09	764.3	30.24	768.0	39.1	3.9	86	n.			1		10 ks		nw.	0.287	7.3	cloudy	S. Sakano.
Wakayama	30.11	764.8	30.17	766 2	40.8	4.9	64	calm	0	0			10 s			inap.	inap.	cloudy	K. akai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.81	757.2	29.99	761.7	81.7	27.6	71	ene.	12.5	5.6		2cs;c	5 kn		ene.	0.18	4.6	fair	The Staff.
MEXICAN.																			
Leon	24.36	618.7	30.18	766.6	47.5	8.6	67	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina
Mazatlan	29.85	758.2	30.11	764.9	63.5	17.5	78	nnw.	0	0		0	0			0	0	light fog	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.79	756.7	29.79	756.7	50.4	10.2		ssw.			4					0.051	1.3		
Groningen	29.80	756.8	29.85	758.2	47.7	8.7		sw.			2					0.102	2.6		
Helder	29.74	755.5	29.74	755 5	46.4	8.0		ssw.			4					0.173	4.4		
Hellevoetsluis	29.80	756.8	29.80	756.8	50.7	10.4	75	sw.			3					0.260	6.6		
Utrecht	29.78	756.3	29.83	757.7	53 2	11.8	66	ssw.			3		4			0.071	1.8	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.91	759.8			78.1	25.6	87	n.	0	0			7			0.669	17.0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.59	751.5	29.65	753.1	44.6	7.0	63	se.	2	1			10			0.181	4.6	raining	
Brono	29.79	756.7	29.83	757.7	34.2	1.2	52	e.			4		0			0	0		
Christiania	29.84	757.8	29.99	761 7	30.2	— 1.0	100	nne.	7	3			10					snowing	
Gjæsvær	29.85	758 3	29.88	758.9	28.4	— 2.0		se.			2		1			0	0		
Lodingen	29.87	758.6	29.91	759.8	30.2	— 1.0	67	nne.			2		0			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.15	765 7	30.24	768.0	58.8	14.9	50	calm	0	0			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.77	756.2	30.11	764.9	56 1	13.4	64	sw.	18.1	8.1			8			0.004	0.1		The Staff.
Ponta Delgada, Azores	30.11	764.7	30.18	766 5	57.2	14.0	67	ne.	6.9	3.1			3			0.272	6.9		
Saint Paul de Loanda																			
St. Vincent, Cape Verd Ids.	29.98	761 6	30.02	762 4	68.4	20.2	75	ene.			4		3			0	0	light haze	
San Salvador, Congo	28.03	711 9	29.84	757.9	83.5	28.6	63	nw.			2		8			0.087	2.2		
Serra da Estrella	25.25	641.3	30.09	764.2	37.8	3.2	86	sse.	4.9	2.2			10			0	0	foggy	
RUSSIAN.																			
Akmolinski	28.98	736.2	30.14	765.6	18.5	— 7.5	100	sw.	18	8			10 n			0.016	0.4		Major K. Lasarew.
Archangel	30.05	763.2	30.07	763.7	— 6.9	—21.6	83	s.	2	1		0	0			0	0		Capt. Sseliwerstow
Ashuruda	30.04	762.9	29.94	760.5	49.8	9.9	63	nw.	7	3		ck	3 s			0	0	light clouds	
Astrakhan	29.93	760.2	29.85	758 2	35.8	2.1	62	ssw.	16	7			10 n			0.008	0.2	h'vy clouds	Capt. Wisganow.
Baku	29.94	760 5	29.89	759.3	45.7	7.6	46	ssw.	13	6		0	1 s			0	0		
Barnaul	29.87	758.0	30.41	772.5	13.6	—10.2	58	s.	9	4			8			0.004	0.1	light clouds	Meteorological Office.
Bieloserk	29.53	750.1	30.06	763.4	— 0.8	—18.2	76	nnw.	7	3		0	0			0	0		
Dorpat	29.88	758.9	30.14	765.6	18.1	— 7.7	66	ene.	7	3		0	0			0	0		Observatory.
Ekaterinburg	29.02	737.1	30.08	764.1	2.7	—16.3	65	ssw.	9	4			10			0.004	0.1	solar corona	
Elisawetgrad	29.56	750.9	30.04	763.0	28.2	— 2.1	71	nw.	7	3			10 s			0	0		Meteorological Obs'y
Kasan	29.38	746 2	29.67	753.7	4.1	—15.5	90	se.	11	5			10			0	0		
Kem	30.00	762.1	30.06	763 4	7.2	—13.8	83	sw.	13	6			10 n			0	0		Observatory.
Kertch	29.91	759.6	29.93	760.2	36.7	2.6	79	nw.	7	3			10 n			0	0		
Kief	29.30	744 2	29.97	761.2	28.4	— 2.0	72	nw.	11	5			10ks;n			0	0		Lagorio & Sastyres.
Koslov	29.08	738.7	29.61	752.2	20.1	— 6.6	74	nnw.	16	7			5 s			blank	blank		Observatory.
Lgov	29.30	744.1	29.91	759.8	24.6	— 4.1	89	wnw.	22	10			10			0.012	0.3	snowing	R. I. Ssaweljew, Engin'r.
Libau	30.06	763.4	30.08	764.0	30.7	— 0.7	77	ese.	7	3			10			0	0		[illegible]
Lugan	29.63	752.7	29.85	758.2	26.6	— 3.0	57	wnw.	22	10			10			0.004	0.1		Meteorological Obs'y
Moscow	29.30	744.2	29.83	757.6	8.8	—12.9	79	n.	13	6		0	4 s			0.100	2.7		Meteorological Obs'y
Nertschinsk	28.30	718.9	30.88	784.4	2.3	—16.5	72	calm	0	0			0			0	0		
Nikolaiev	29.94	760.4	30.01	762.2	34.5	1.4	66	nw.	13	6			10 n			0	0		Capt. Kurdakow.

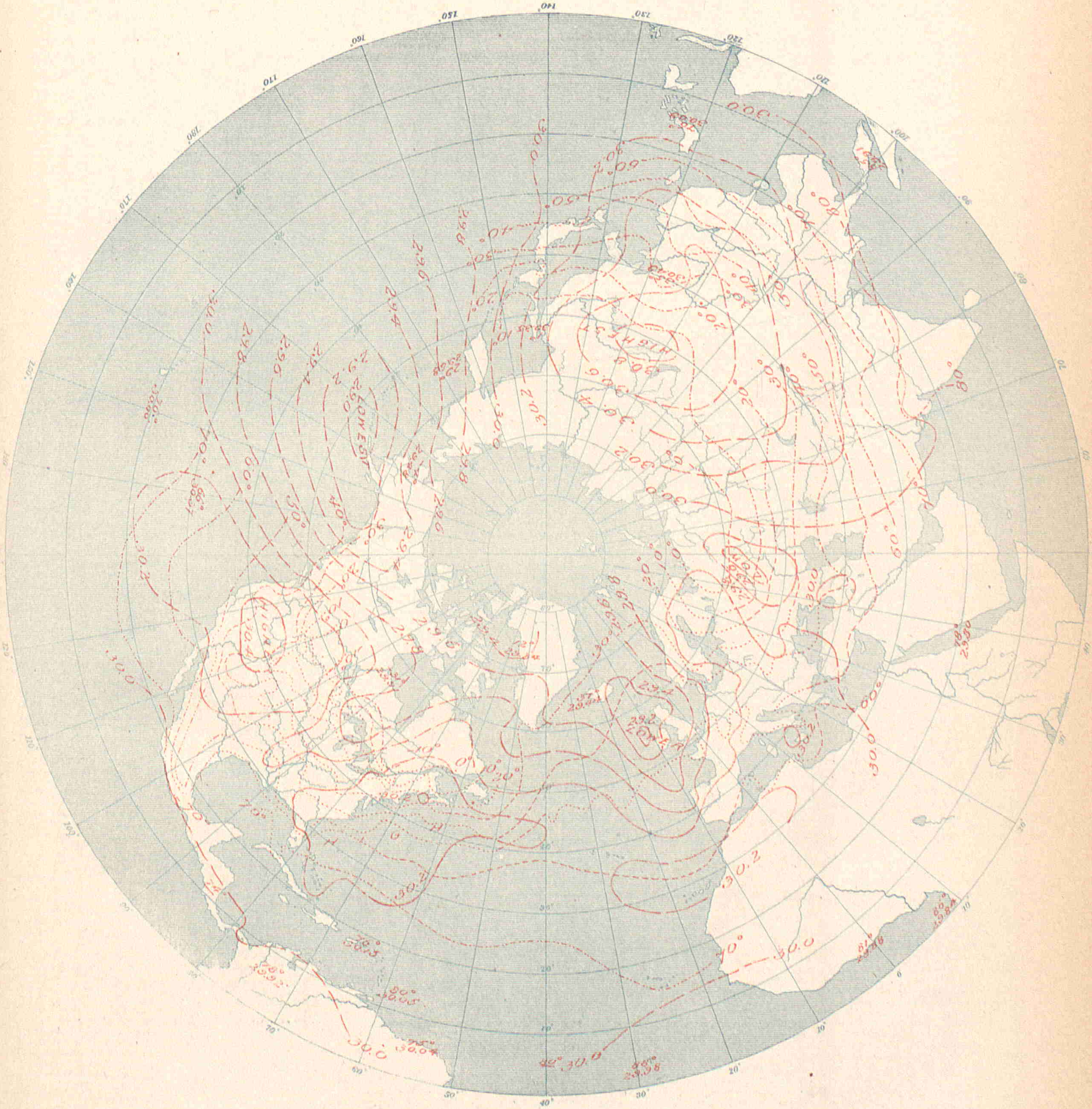
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor	30.26	768.6	30.35	770.8	1.0	—17.2	76	w.	4	2		0	0						Iwanow.
Pekin, China	30.35	770.8	30.49	774.4	34.5	1.4	27	nw.	2.2	1.0		2 cs	0						Siang.
Petro-Alexandrovsk	29.75	755.7	30.11	764.9	45.5	7.5	52	se.	2.2	1.0			5						Walter.
Petrozavodsk	29.93	760.1	30.14	765.6	1.4	—17.0	69	calm	0	0		0	0			0.012	0.3		Dr. Bergmann.
Pinsk	29.52	749.7	30.04	762.9	32.7	0.4	83	nw.	9	4			10 s			0	0		
Poti	30.03	762.7	30.06	763.5	45.5	7.5	68	e.	4	2			0			0	0		
St. Petersburg	30.15	765.8	30.17	766.4	9.5	—12.5	68	ene.	9	4		0	1 ks			0.039	1.0		Central Physical Obs'y.
Samarkand	27.65	702.2	30.18	766.6	43.2	6.2	70	se.	3.4	1.5			10 n						Dresch.
Semipalatinsk	29.73	755.1	30.45	773.5	12.7	—10.7	73	calm	0	0			6			0	0		Major Lasarew
Sevastopol	29.78	756.4	30.00	762.0	38.3	3.5	72	nne.	16	7			10 n			0	0		
Starot Bykhov	29.37	746.0	29.95	760.8	27.0	— 2.8	74	nw.	11	5			10					light snow	Carl Hagen.
Tashkend, Laboratory	28.50	724.0	30.24	768.0	41.0	5.0	56	n.	13	6			10 k					light clouds	Teren, A. M
Tiflis	28.56	725.5	30.04	763.1	34.0	1.1	55	n.	9	4		0	0			0	0		Physical Observatory.
Vernoe	27.72	704.2	30.37	771.4	29.8	— 1.2	68	calm	0	0		0	4 k						Sariono.
Viatka	28.83	732.3	29.52	749.7	2.8	—16.2	71	se.	4	2			10			0	0		
Vladivostock	30.21	767.3	30.28	769.0	17.8	— 7.9	79	n.	27	12			8 n			0	0		
Warsaw	29.61	752.2	30.05	763.3	39.2	4.0	88	wsw.	2	1			10 kn					heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	30.19	766.7	30.50	774.8	8.4	—13.1	78	calm	0	0			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.17	740.9	29.31	744.5	7.1	—13.8	75	nnw.	15.5	6.9			9 ks		n.	0.05	1.3	cloudy	Bachmetieff.
Spanish.																			
Barcelona, Met. Obs'y	29.95	760.8	30.06	763.6	58.3	14.6	73	sw.				0	3			0	0	misty	B.J.Elin.
Bilbao, Met. Obs'y	29.86	758.4	29.92	759.9	59.0	15.0	53	s.	6.5	2.9			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.05	687.1	30.07	763.8	47.3	8.5	72	sw.	15.0	6.7		0	7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.3	30.16	766.0	49.5	9.7	76	sw.	5.1	2.3			10			0	0	covered	The Staff.
Murcia, Met. Obs'y	29.97	761.2	30.12	765.0	65.7	18.7	60	wsw.	1.6	0.7		1	0	se.		0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.85	732.9	29.75	755.6	52.0	11.1	93	s.	36.0	16.1			10			2.134	54.2	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.06	763.4	30.12	765.1	69.1	20.6	89	ese.	0.4	0.2		0	s			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.03	762.8	30.09	764.3	75.6	24.2	85	e.	5.5	2.5		0	4 ks			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.09	764.2	30.19	766.8	57.4	14.1	75	n.	7.7	3.4		1	2	nw.	nw.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.06	763.4	30.15	765.7	76.3	24.6	64	e.	4.5	2.0		2 s	3 k	e.	e.	0	0		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.07	763.8	30.11	764.8	12.9	—10.6	93	s.			2		9			0	0		
Umea	30.10	764.4	30.15	765.7	18.3	— 7.6	89	nw.			2		10			0	0		
Hernosand	30.06	763.4	30.11	764.7	25.5	— 3.6	82	calm			0		10			0	0		
Stockholm	29.93	760.2	30.11	764.7	28.0	— 2.2	92	ene.			2		10			0	0		
Wisby	29.97	761.2	30.03	762.7	30.9	— 0.6	88	e.			4		10			0.020	0.5		
Sub-series.																			
Upsala	30.01	762.2	30.10	764.4	25.7	— 3.5	92	ene.	6.5	2.9			10		ese.	0	0	foggy	H.H.Hildebrandesson
Swiss.																			
Geneva																			The Observatory.
Turkish.																			
Constantinople			30.10	764.6	45.0	7.2	60	ne.	13	6.0			2		ne.	0	0		The Observatory.
Valona			30.11	764.8	58.6	14.8		nw.			2		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	757.0	57.2	14.0	66	ne.			1		10 n		sw.	0.168	4.3		F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.29	769.4	30.38	771.6	27	— 2.8	70	w.	3	1.3		0	0			inap.	inap.	clear	J. O. Barnes.
Alpena, Michigan	29.26	743.2	29.97	761.2	11.8	—11.2	80	s.	16	7.2			10 s			0.03	0.8	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.19	639.8	30.29	769.4	27.8	— 2.3	76	ne.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.32	693.9	30.36	771.1	— 4.0	—20.0	100	sw.	14	6.3		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	29.00	736.6	30.22	767.6	42.0	5.6	50	se.	12	5.4		hz.	sk.			0	0	dense smoke	S. W. Beall.
Atlantic City, New Jersey	30.29	769.4	30.30	769.6	32.0	0.0	60	n.	8	3.6		0	0			0	0	clear	B.A.Blundon.
Augusta, Georgia	30.08	764.0	30.28	769.1	41	5.0	82	calm	0	0		0	sk.			0	0	clear	W.J.Evans.
Baltimore, Maryland	30.27	768.8	30.32	770.1	38	3.3	43	n.	1	0.4		0	sk			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.29	769.4	30.31	769.9	31.0	— 0.6	68	ne.	18	8.0		2 c	1 ks			0	0	clear	F.L.Johnson.
Bennett, Fort, Dakota	28.56	725.4	30.29	769.4	12.5	—10.8	73	nw.	17	7.6		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.35	694.7	30.35	770.9	— 1.0	—18.3	83	calm	0	0			10 s		sw.	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.21	716.5	30.19	766.8	6.0	—14.4	76	nw.	16	7.2		0	0			inap.	inap.	clear	B. O. Lenoir.
Block Island, Rhode Island	30.30	769.6	30.33	770.4	28.0	— 2.2	82	n.	13	5.8		7 cs	0	nw.		0	0	fair	J. T. Elker.
Boise City, Idaho	27.51	698.7	30.47	773.9	35.8	2.1	77	sw.	3	1.3		0	8 s		w.	0.02	0.5	cloudy	James Kenealy.
Boston, Massachusetts	30.14	765.5	30.30	769.6	25.0	— 3.9	73	w.	10	4.5		2 cs	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.94	760.5	30.00	762.0	65.0	18.3	100	se.	6	2.7		0	fg.			0	0	clear	John McGlone.
Buffalo, New York	29.43	747.5	30.22	767.6	16.8	— 8.4	67	se.	6	2.7		0	8 ks		s.	inap.	inap.	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.07	713.0	30.28	769.1	2	—16.7	89	nw.	19	8.5		0	0			inap.	inap.	clear	A. Schneider.
Cairo, Illinois	29.62	752.3	30.04	763.0	39.8	4.3	70	s.	5	2.2			10 s		s.	0	0	threatening	W. H. Ray.
Canby, Fort, Washington Ter	29.93	760.2	30.13	765.3	43.2	6.2	100	s.	30	13.4			10 n			0.44	11.2	heavy rain	J.H.Young.
Cape Henry, Virginia	30.27	768.8	30.29	769.4	38.0	3.3	72	s.	6	2.7		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.29	769.4	30.32	770.1	36.5	2.5	80	e.	7	3.1		2 cs	0			0	0	clear	W.E.Smith.
Cape Mendocino, California	29.68	753.9	30.38	771.6	45.2	7.3	83	nw.			1	0	0			0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	57.0	13.9	94	e.	8	3.6		0	5 k		s.	inap.	inap.	fair	G. W. Davis.
Charleston, S. Carolina	30.18	766.6	30.24	768.1	51.5	10.8	93	e.	2	0.9		8 ck	0	se.		0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.36	745.7	30.25	768.3	40.0	4.4	73	sw.	5	2.2		6 c	fg.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.19	766.8	37.5	3.1	85	n.	1	0.4			fg.			0	0	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.03	610.4	30.30	769.6	29.1	— 1.6	55	nw.	22	9.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.20	741.7	29.95	760.7	27.3	— 2.6	69	s.	10	4.5			10 s		s.	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.29	769.4	30.31	769.9	37.3	2.9	87	e.	7	3.1		hz	0			0	0	clear	C. F. Dickens
Cincinnati, Ohio	29.41	747.0	30.10	764.5	37.3	2.9	85	se.	4	1.8		0	2 s			0	0	clear	L.Dunne.
Cleveland, Ohio	29.34	745.2	30.13	765.3	22.0	— 5.6	80	se.	12	5.4		0	0			0	0	clear	W.Line.
Columbus, Ohio	29.20	741.7	30.10	764.5	28.2	— 2.1	80	e.	5	2.2		0	0			0	0	clear	F.T. Williams
Concho, Fort, Texas	28.15	715.0	30.17	766.3	44.2	6.8	86	nw.	12	5.4		0	0			0	0	clear	C. E. King.
Custer, Fort, Montana	27.00	685.8	30.36	771.1	8	—13.3	80	n.	4	1.8		0	2 s			0.03	0.8	clear	W.J.Daily.
Davenport, Iowa	29.22	742.2	29.92	760.0	26.7	— 2.9	75	sw.	12	5.4		10 cs	0	w.		0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.35	643.9	30.31	769.9	38.0	3.3	66	ne.	6	2.7		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.51	724.1	30.33	770.4	45	7.2	64	sw.	12	5.4		0	8 ks			0	0	cloudy	H.S.Blandford.
Deadwood, Dakota	25.40	645.1	30.32	770.1	16.0	— 8.9	76	sw.	3	1.3		0	0			0.09	2.3	clear	G.Kingsbury.
Delaware Breakwater, Del.	30.30	769.6	30.32	770.1	36.7	2.6	70	ne.	13	5.8		0	0			0	0	clear	G.A.Martin.
Denver, Colorado	24.78	629.4	30.30	769.6	40.4	4.7	38	nw.	10	7.2		0	0			0	0	clear	F. M. Neat.
Des Moines, Iowa	28.99	736.3	29.96	761.0	26.7	— 2.9	64	w.	9	4.0			10 s		w.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.36	745.7	30.11	764.8	33.0	0.6	78	s.	10	4.5		0	0			0	0	clear	N.B.Conger.
Dodge City, Kansas	27.46	697.5	30.20	767.1	35.6	2.0	75	nw.	12	5.4		hz.	0			0	0	clear	J.E.Lanouette.
Dubuque, Iowa	29.15	740.4	29.91	759.7	23.3	— 4.8	75	s.	8	3.6			10 s		s.	0	0	cloudy	J. Harvey Smith
Duluth, Minnesota	28.93	734.8	29.74	755.4	9.0	—12.8	87	sw.	4	1.8		0	4 s		w.	0.22	5.6	fair	E.R.Brace.
Eastport, Maine	30.12	765.0	30.19	766.8	25.0	— 3.9	73	w.	5	2.2		0	0			0.09	2.3	clear	D. C. Murphy.
Elliott, Fort, Texas	27.27	692.6	30.17	766.3	38.3	3.5	49	n.	16	7.2		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.41	670.8	30.29	769.4	44.2	6.8	36	w.	2	0.9		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.38	746.2	30.15	765.8	20.5	— 6.4	76	s.	20	8.9		1 cs	0	w.		0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.04	737.6	29.76	755.9	10.0	—12.2	80	s.	15	6.7			10 n		s.	0.10	2.5	light snow	L.M.Pindell.
Fort Smith, Arkansas	29.47	748.5	29.97	761.2	47.0	8.3	68	e.	3	1.3			10 s		w.	0	0	cloudy	J. B. Campbell.
Galveston, Texas	30.01	762.2	30.05	763.3	63.2	17.3	90	se.	4	1.8			10 ks		sw.	0	0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.23	742.4	29.94	760.5	22.0	— 5.6	80	se.	13	5.8			10 s		s.	0.01	0.3	threatening	Joseph E. Muelle
Grant, Fort, Arizona	25.38	644.6	30.24	768.1	40.3	4.6	39	ne.	4	1.8		0	0			0	0	clear	Chas. A. Reed.
Hatteras North Carolina	30.28	769.1	30.29	769.4	42.0	5.6	82	w.	2	0.9		3 c	hz.			0	0	clear	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Helena, Montana	25.92	658.4	30.28	769.1	37.5	3.1	87	w.	13	5.8	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	S. W. Morrison.
Huron, Dakota	28.70	729.0	30.22	767.6	11.8	—11.2	76	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	30.03	762.7	27.5	— 2.5	77	s.	4	1.8	.....	0	9 k	.....	sw.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.02	762.5	64.0	17.8	93	s.	7	3.1	.....	8 k	0	w.	.....	0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.18	766.6	30.22	767.6	49.2	9.6	98	e.	1	0.4	.....	0	fg.	.....	.....	inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	29.24	742.7	29.94	760.5	27.2	— 2.7	82	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.13	765.3	30.15	765.8	71.2	21.8	84	ne.	15	6.7	.....	0	7k;s	.....	e.	0	0	threatening.	A. W. Browne.
Kittyhawk, North Carolina	30.25	768.3	30.27	768.8	43.4	6.3	84	sw.	5	2.2	.....	0	1s;hr	.....	.....	0	0	clear	Wesley Blake.
Knoxville, Tennessee	29.12	739.6	30.20	767.1	35.2	1.8	85	s.	1	0.4	.....	6c;cs	sk.	w.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	28.98	736.1	29.82	757.4	24	— 4.4	88	s.	16	7.2	.....	.....	10 s	.....	s.	0.06	1.5	cloudy	S. C. Emery.
Leavenworth, Kansas	29.07	738.4	30.02	762.5	29	— 1.7	77	calm	0	0	.....	10 cs	0	.....	.....	0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.46	748.3	30.33	770.4	34.6	1.4	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.66	753.4	29.99	761.7	48.0	8.9	86	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.83	757.7	30.23	767.8	51.5	10.8	59	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.46	748.3	30.05	763.3	38.8	3.8	66	ne.	3	1.3	.....	8 cs	0	w.	.....	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.56	750.8	30.28	769.1	35.0	1.7	73	w.	1	0.4	.....	4 c	fg.	w.	.....	0	0	fair	Jno. Healy.
Mackinaw City, Michigan	29.14	740.1	29.84	757.9	15.5	— 9.2	91	e	8	3.6	.....	.....	10 n	.....	.....	0.34	8.6	heavy snow	D. B. Notson.
Macon, Fort, North Carolina	30.30	769.6	30.31	769.9	46.9	8.3	65	nw.	5	2.2	.....	5 c	0	w.	.....	inap.	inap.	fair	William Daly.
Maginnis, Fort, Montana	25.36	644.1	30.11	764.8	14.9	— 9.5	36	sw.	3	1.3	.....	5 k	0	.....	.....	0	0	fair	F. Burke.
Marquette, Michigan	28.96	735.6	29.74	755.4	14.4	— 9.8	83	s.	6	2.7	.....	.....	10 n	.....	.....	0.12	3.0	light snow	J. Gilligan.
Memphis, Tennessee	29.66	753.4	30.01	762.2	48.5	9.2	60	se.	7	3.1	.....	.....	10s;fg	.....	sw.	0	0	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.07	738.4	29.87	758.7	23.0	— 5.0	78	s.	19	8.5	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Rhode.
Mobile, Alabama	30.12	765.0	30.16	766.1	47.7	8.7	86	n.	2	0.9	.....	.....	10 s	.....	nw.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.96	761.0	30.20	767.1	40.5	4.7	91	calm	0	0	.....	5 cs	fg.	.....	.....	0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	28.91	734.3	30.01	762.2	0	—17.8	68	nw.	12	5.4	.....	0	0	.....	.....	0.07	1.8	clear	H. Bessant.
Mt. Washington, N. H.	23.61	599.7	30.23	767.8	4.3	—15.4	93	nw.	40	17.9	.....	0	0	.....	.....	0.01	0.3	clear	Edwd. A. Beals.
Nashville, Tennessee	29.47	748.5	30.08	764.0	38.1	3.4	81	e.	4	1.8	.....	5 c	0	sw.	.....	inap.	inap.	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.21	767.3	30.33	770.4	23.8	— 4.6	67	n.	11	4.9	.....	0	9 s	.....	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.28	769.1	30.33	770.4	26.0	— 3.3	70	n.	6	2.7	.....	3 c	4 ks	w.	nw.	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.06	763.5	30.12	765.0	55.0	12.8	80	se.	2	0.9	.....	0	8 s	.....	nw.	0	0	cloudy	M. Herman.
New York, New York	30.17	766.3	30.36	771.1	30.0	— 1.1	56	nw.	1	0.4	.....	0	4 s	.....	.....	0	0	fair	H. J. Peurod.
Norfolk, Virginia	30.25	768.3	30.28	769.1	40.0	4.4	82	calm	0	0	.....	3 c	fg.	w.	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.20	690.9	30.30	769.6	31.6	— 0.2	50	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington T'y	30.18	766.6	30.22	767.6	41.0	5.0	96	s.	1	0.4	.....	.....	10 n	.....	s.	0.33	8.4	light rain	J. Dascomb
Omaha, Nebraska	28.84	732.5	30.11	764.8	29.3	— 1.5	79	n.	24	10.7	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak
Oswego, New York	29.94	760.5	30.29	769.4	25.5	— 3.6	69	s.	6	2.7	.....	.....	10 n	.....	s.	0.02	0.5	light snow	J. G. Linsley.
Palestine, Texas	29.48	748.8	30.06	763.5	53.2	11.8	86	s.	9	4.0	.....	0	4 s	.....	s.	0	0	fair	P. T. Jenkins.
Pensacola, Florida	30.13	765.3	30.16	766.1	48.2	9.0	82	ne.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.21	767.3	30.32	770.1	32.0	0.0	68	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.57	446.3	30.29	769.4	— 1.0	—18.3	79	nw.	64	28.6	.....	0	0	.....	.....	0.02	0.5	clear	H. Hall.
Pittsburg, Pennsylvania	29.34	745.2	30.20	767.1	27.8	— 2.3	82	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	— 5.9	—21.1	91	e.	.....	.....	1	0	0	.....	.....	0	0	clear	G. A. Darden.
Port Huron, Michigan	29.34	745.2	30.07	763.8	18.8	— 7.3	83	s	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.22	767.6	30.27	768.8	27.0	— 2.8	64	w.	6	2.7	.....	0	sk.	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.19	766.8	30.26	768.6	42.4	5.8	91	s.	1	0.4	.....	0	3 s	.....	.....	0.21	5.3	clear	M. L. Hearne.
Prescott, Arizona	24.97	634.2	30.33	770.4	28.5	— 1.9	80	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	30.27	768.8	30.30	769.6	29.7	— 1.3	60	nw.	10	4.5	.....	7 c	0	w.	.....	0	0	fair	C. N. Kitchel.
Red Bluff, California	30.03	762.7	30.40	772.1	42	5.6	89	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.86	758.4	30.11	764.8	64.0	17.8	93	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y.	29.55	750.6	30.26	768.6	17.5	— 8.1	67	s.	12	5.4	.....	5 ck	hz.	w.	.....	inap.	inap.	fair	E. W. McGann.
Roseburg, Oregon	29.81	757.2	30.38	771.6	35.6	2.0	91	e.	1	0.4	.....	0	fg.	.....	.....	0.01	0.3	clear	J. J. Naury.
Sacramento, California	30.31	769.9	30.38	771.6	44.4	6.9	96	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.35	745.5	30.01	762.2	34.5	1.4	74	se.	10	4.5	.....	.....	10ks;sk	.....	sw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.44	747.8	29.48	748.8	— 4	—20.0	65	ne.	18	8.0	.....	0	0	.....	.....	0	0	clear	Fred. H. Clarke
St. Paul, Minnesota	28.92	734.6	29.84	757.9	20.0	— 6.7	67	nw.	12	5.4	.....	4 cs	0	.....	.....	0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	28.98	736.1	29.95	760.7	7	—13.9	81	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.95	659.1	30.51	774.7	39	3.9	59	calm	0	0	.....	0	4 ks	.....	sw.	0	0	fair	J. Craig.
San Diego, California	30.12	765.0	30.19	766.8	51.1	10.6	66	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.37	746.0	30.09	764.3	26.5	— 3.1	70	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.33	770.4	30.36	771.1	29.9	— 1.2	68	n.	17	7.6	.....	5 cs	0	w.	.....	0	0	fair	V. P. Chappel.
Sanford, Florida	30.14	765.5	30.19	766.8	58.6	14.8	86	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Marbury
San Francisco, California	30.29	769.4	30.36	771.1	48.7	9.3	90	n.	5	2.2	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.15	765.8	30.24	768.1	46.7	8.2	87	se.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.47	672.3	30.32	770.1	12	—11.1	83	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	A. E. Mathews.
Shreveport, Louisiana	29.79	756.7	29.97	761.2	55.0	12.8	80	s.	8	3.6	.....	.....	10 k	.....	s.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	29.18	741.2	29.25	742.9	39	3.9	82	e.	8	3.6	.....	.....	10 n	.....	e.	0.10	2.5	light rain	F. W. Fickett.
Smithville North Carolina	30.25	768.3	30.29	769.4	47.6	8.7	91	w.	6	2.7	.....	1 c	1 s	.....	w.	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.17	715.5	30.30	769.6	29.5	— 1.4	94	nw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.24	742.7	29.97	761.2	29.3	— 1.5	70	s.	12	5.4	.....	3 c	3 s	w.	w.	0	0	fair	T. B. Jennings.
Stockton, Fort, Texas	27.05	687.1	30.18	766.6	43.0	6.1	47	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	29.89	759.2	.....	.....	46.0	7.8	96	s.	34	15.2	.....	.....	10 n	.....	s.	0.70	17.8	light rain	R. Connor.
Thomas, Camp, Arizona	27.53	699.2	30.36	771.1	33	0.6	71	e.	.....	.....	1	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.34	745.2	30.08	764.0	26	— 3.3	88	calm	0	0	.....	.....	9 k	.....	sw.	0	0	cloudy	A. Buell.
Unalashka, Alaska	28.84	732.5	28.86	733.0	33	0.6	88	n.	22	9.8	.....	.....	10 n	.....	.....	0.54	13.7	light snow	Samuel Applegate
Vicksburg, Mississippi	29.84	757.9	30.11	764.8	51	10.6	80	se.	10	4.5	.....	0	9 s	.....	w.	0	0	cloudy	C. Dill.
Washington, D. C.	30.20	767.1	30.32	770.1	33.1	0.6	76	ne.	2	0.9	.....	2 c; hz	0	.....	.....	0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.14	663.9	30.26	768.6	26	— 3.3	76	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Wilmington, N. Carolina	30.24	768.1	30.30	769.6	43.0	6.1	88	calm	0	0	.....	3 c	2s; fg	w.	.....	0	0	fair	L. H. Albrecht.
Yankton, Dakota	28.79	731.3	30.21	767.3	20.0	— 6.7	69	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	30.06	763.5	30.21	767.3	58.8	14.9	38	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.66	753.4	29.68	753.9	28.8	— 1.8	84	n.	22	9.8	.....	.....	10 n	.....	.....	0.01	0.3	snowing	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	73	22.8	.....	nw.	.....	.....	1	0	2 ks	.....	ne.	0.60	15.2	fair	W. H. Jackson.
Bogota, U. S. C.	22.02	559.3	.....	.....	49.1	9.5	86	calm	0	0	.....	0	0	.....	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.87	758.7	30.03	762.7	—14	—25.6	100	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.10	764.5	67.4	19.7	86	calm	0	0	.....	2 ck	1 s	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	75	23.9	95	ne.	.....	.....	3	.....	10 n	ne.	e.	1.320	33.5	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.36	745.7	29.92	760.0	78	25.6	84	calm	.....	.....	0	.....	10 ks	.....	n.	0	0	cloudy	Francisco J. Olsner s.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	90	ne.	.....	.....	3	0	0	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	29.84	757.9	29.91	759.7	—31.0	—35.0	.....	sw.	13	5.8	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.94	760.4	29.95	760.6	76.3	24.6	87	n	11.2	5.0	.....	0	5 k	.....	n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.94	760.4	30.00	762.1	71.6	22.0	91	nw.	.....	.....	4	0	1 ks	.....	n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic																		
S. S. Assyrian Monarch, N. 43° 24′, W. 41° 54′†	30.25	768.3	53	11.7		sw.			4		3		sw.	0	0	mod.	sw.	clear.
S. S. Alvo, St. Mark, Hayti. W. I*	30.19	766.8	72	22.2		n.			2		3		calm	0	0			fine.
S. S. Alleghany. Norfolk, Va †	30.30	769.6	38	3.3		calm			0		0			0	0			clear.
S. S. Ailsa, Port Limon, Costa Rica, C. A.			71.8	22.1	90	n.			2		10		ne.	2 h'r	2 h'r	sm'h		cloudy.
S. S. America, N. 41° —′, W. 64° —′*	30.32	770.1	40	4.4	73	calm			0		6		nw.	0	0	sm'h		fair.
S. S. Arizona. N. 42° 56′, W. 49° 40′	30.23	767.8	33	0.6		nnw.			3		10		w.	0	0	sm'h		hazy.
Schr. Arthur Burton, ernandina, Fla†	30.19	766.8				s.			3		2		s.	0	0	sm'h		fine.
S. S. Alps, N. 21° 31′, W. 74° 18′ *†...	30.20	767.1	79	26.1		ene.			3		3		ene.	0	0	short		clear.
S. S. Adriatic, N. 42° 17′, W. 57° 29′						w.			3				w.			sm'h	nw.	clear.
Schr. Annie R. Lewis, N. 37° 42′, W. 74° 50′ †...	30.30	769.6	45	7.2		ne.			4		0			0	0	mod	s.	clear.
S. S. British Crown, N. 41° 15′, W. 56° 02′†	30.22	767.6	42	5.6		nnw.			3		3		nnw.	0	0	sm'h		clear
S. S. Circassian, N. 46° 15′, W. 40° 00′	30.16	766.1	51	10.6	79	ssw.			5		9		ssw.			2	ssw.	overcast.
S. S. Caracas, New York Harbor, N Y*†	30.40	772.1	30	— 1.1	46	n.			3		0			0	0			clear.
S. S. Canada, (Br) N. 41° 55′, W 50· 55′†	30.21	767.3	35	1.7	100	nw.			4		10	n.	nw.	3 h'r	3 h'r	mod.	n.	cloudy.
S. S. Canada, (Fr) N. 41° 33′, W. 62° 10′			42.8	6		nne.			2	c		nne.		0	0	sm'h	nne.	clear.
S. S. Chalmette, N. 27° 12′, W. 86° 37′ *†...	30.07	763.8	71	21.7		se.			4		6		se.	0	0	sm'h	se.	fair.
S. E. J. Spicer, N 37° 10′, W. 62° 20	30.33	770.4	53	11.7	93	nw.			3		5		nw.	shr's	shr's	mod.	nw.	fair.
S. S. France, N. 46° 01′, W. 39° 46′ *†...	30.16	768.6				sw.			2		10?		sw.	0	0	sm'h	sw.	clear?
S. S. Grecian, N. 42° 45′. W. 56° 38′	30.29	769.4	30?	—1.1?	78	wnw.			3		3		wnw.	2 h'r	2 h'r	high	w.	clear.
Bg. George. N. 39° 50′, W. 70° 55′*†	30.30	769 6				n.			1		0			0	0	con.		clear.
S. S. Helvetia, N. 42° 12′, W. 52° 03′	30.16	766.1	37	2.8	100	nnw.			5		8		w.	0	0	mod	w.	fair.
Bk. Idaho, N. 22° 30′, W. 85° 00′*†	30.09	764.3				e.			2		0			0	0	mod.	nw.	clear.
S. S. Iowa, N. 42° 15′, W. 59° 50′ †...	30.24	768 1	40	4.4		nne.			2		1		ne.	0	0	sm'h	nnw.	clear.
Schr. Jennie N. Huddell, N. 34° 00′, W 77° 15′ †...	30.25	768.3	60?	15.6?		calm			0		0			0	0	sm'h		hazy.
Bg. L. & W. Armstrong, N. 37° 28′, W. 70° 10′ †...	30.26	768.6				ne.			1		0			0	0	sm'h	nne.	clear.
S. S. Lessing, N. 49° 15′, W. 14° 20′	29.56	750.8	49	9.4		wnw.			6		9		wnw.	½ h'r	½ h'r	h'vy	wsw.	squally.
S. S. Mentmore, N. 45° 26′, W. 41° 09′*†...	30.16	766.1				sw.			3		10			0	0	mod	nw.	cloudy.
S. S. Neckar, N. 45° 14′, W. 39° 00′	30.17	766.3	50.0	10.0	72	var.			3–7		8		w.	0	0	sm'h	w.	cloudy.
S. S. Orinoco, N 38° 29′, W. 71° 32′ †	30.34	770.6	50	10.0		nne.			1		0			0	0			clear.
S. S. Oregon, (Br.) N. 51° 58′, W. 7° 00′ *	29.47	748 5	43	6.1		sw.			5		5		sw.	0	0	long	wsw.	fair
S. S. Ohio, (Am.) N. 47° 11′, W. 37° 45′ *†	30.19	766.8	48	8.9	92	sw.			3		10		wnw.	0	0	mod.	n.	cloudy.
S. S. Pennsylvania, N. 40° 42′, W. 50° 30′†	30.09	764 3	47	8.3	100	nnw.			5		8		sw.	0	0	mod.	ne.	cloudy.
S. S. Polynesian, Moville, Ireland	29.41	747.0	40	4.4		calm			0		0			0	0			clear.
S. S. P. Caland, N. 49° 50′, W. 11° 58′			50	10.0	93	w.			6		8		w.			6	wnw.	rainy.
S. S. Rhein, N. 49° 13′, W. 18° 08′						nw.			7		10		nw.			high	nw.	raining.
S. S. Rhynland, N. 41° 13′, W. 66° 51′	30.22	767.6	44	6.7	64	nnw.			3		5		nw.	0	0	mod	w.	fair.
S. S. Scandinavian, N. 54° 51′, W. 12° 15′	29.18	741.2	49	9.4		wsw.			6		5		wsw.			hv'y	wsw.	showery.
S. S. Samaria, N. 45° 45′, W. 41° 00′	30.08?	764.0?	51	10.6		sse.			4		9		s.	0	0	sm'h	e.	cloudy.
S. S. Salier, N. 41° 50′, W. 58° 17′*	30.26	768.6				wnw.			2		6		nw.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. Valencia. La Guayra, Venezuela †	30.01	762.2	77	25.0	72	ne.			3		2		ene.	0	0	mod.	ne.	fair.
S. S. Pennland, N. 47° 52′. W. 30° 30′			45	7.2	100	n.			6		7		nw.	8 h'r	8 h'r	high	n.	fair.
Schr. Adda Doane, Port Antonio, Jamaica, W.I†	30.10	764.5				s.			1		2		se.	1 h'r	1 h'r			clear.
Bg. Alcira, N. 24° 28′, W. 74° 08′*	30.21	768.1	76	24.4		e.			3		2		ne.	0	0	long	cross	clear.
S. S. Cienfuegos, N. 21° 10′, W. 78° 37′	30.09	764.3	72	22.2		ne.			4		8		nnw.	1 h'r	1 h'r	small	nne.	overcast.
Bk. Chas. Stewart, N. 39° 24′, E. 1° 10′						ssw.			5		2		sw.	0	0	mod	w.	clear.
Bk. Cato, N. 41° 00′, W. 12° 25′†	29.88	758.9	59	15.0	88	sw.			6		4		wnw.	8 h'r	8 h'r	cross	wsw.	clearing.
S. S. D. J. Foley, N. 18° 30′, W. 75° 45′*†	30.05	763 3	77	25.0	91	ne.			2		2		e.	0	0	sm'h		clear.
S. S. Gallia, N. 51° 23′, W. 10° 29′	29.46	748.3	50	10.0		w.			6		8		w.	shr's	shr's	mod.	nw.	squally.
S. S. Habsburg, N. 48° 22′. W. 25° 43′	29.95	760.7				n.			5		2		n.	2 h'r	2 h'r	r'gh	var.	fair.
S. S. New York, N. 34° 20′, W. 75° 30′*†	30.28	769.1	64?	17.8?		s			5		2		s.	0	0	mod.	s.	clear.
S. S. Rialto, N. 49° 04′, W. 12° 00′			50	10.0		w.			6		8		w.	5 h'r	5 h'r	mod	w.	cloudy.
S. S. Sirius, N. 37° 54′, W. 72° 51′	30.32	770.1				ene.			2		0			0	0	sm'h		clear.
Bk. Saga, N. 31° 24′, W. 81° 18′†	30.20	767.0	63?	17.2?		ene.			2–3		1		ese.	h'vy	h'vy	sm'h	ene.	clear.
S. S. Vaderland, N. 40° 58′, W. 66° 00′	30.26	768.6	43	6.1		wnw.			2				nw.	4 h'r	4 h'r	sm'h		clear
S. S. Virginian, N. 48° 27′, W. 29° 00′ *	30.12	765.0	50	10.0		wsw.			3				wsw.	1 h'r	1 h'r	long	nnw.	fine.
S. S. Wyoming, N. 50° 42′, W. 18° 14′	29.61	752.1	47	8.3		nw.			6		6		nw.	3 h'r	3 h'r	h'vy	nw.	squally
S. S. Wieland, N. 40° 38′, W. 70° 05′			52	11.1		nw.			2–3		1		n.	0	0	short	nw.	clear
S. S. Weser, N. 50° 44′, W. 1° 07′	29.72	754.9	50.0	10.0		sw.			4		8		sw.	0	0	mod	ssw.	cloudy.
S. S. Westphalia, Start Point, Eng			49	9.4	100	wsw.			4		6		w.	4 h'r	4 h'r	mod.	sw.	fair.
S. S. St. Laurent, N. 48° 42′, W. 24° 20′	29.85	758.2	48.2	9.0		nnw.			4		3		nnw.	rain	rain	r'gh	nnw.	fair.
S. S. Crescent City, N. 39° 45′, W. 74° 00′*†	30.30	769.6	34	1.1		n.			3								nne.	fine.
U. S. Navy Yard, Portsmouth. N. H *	30.22	767.6	24	— 4.4	87	wnw.	10	4.5			0			0	0			clear.
U. S. S. Alliance, St. Thomas, W. I	30.11	764.8	75	23.9	60	ne.			2		2		ne.	0	0			fair.
U. S. S. Kearsarge, Palermo, Sicily	30.23	767.8	58	14.4	64	ene.			2		0							clear
U. S. S. Lancaster, Naples, Italy	30.20	767.1	57	13.9	100	wsw.			1		2			0	0	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.26	768.6	27	— 2.8		n.			3		2					sm'h		fair.
U. S. S. Portsmouth, Fortress Monroe, Va	30.26	768.6	42	5.6	100	s.			2		8		ssw.					fair.
U. S. S. Powhatan, N. 40° 38′, W. 69° 10′	30.31	769.9	37	2.8	90	wnw.			3		2							clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.12	765 0	54	12.2	67	sse.			2		8		sse.			sm'h		fair.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.10	764 5	76	24.4	77	ese.			1		0			0	0	sm'h		clear.
U. S. S. Trenton, N. 36° 22′, E. 19° 32′	30.09	764.3	65	18.3	54	nne.			4		2		nne.			sm'h	nne.	clear.
U. S. S. Vandalia, Curacoa, W. I	30.02	762 5	74	23.3	86	e.			2		2		e.					fair.
U. S. S Yantic, N. 38° 06′, W. 74° 10′	30.33	770.4	41	5.0	91	ene.			3		2					sm'h		clear.
H. M. S. Alexandra, N. 31° 36′, E. 28° 44′	29.94	760.5	54	12.2	7	ene.			3		6		ene.				3	nnw.	d. clouds.
H. M. S. Alecto, N. 5° 04′, W. 1° 20′	29.88	758.9	81	27.2		ssw.			2		4		wsw.				3	ssw.	d. clouds.
H. M. S. Boadicea, Cape Coast Castle, Gold Coast, frica	29.92	760.0	83	28.3	96	sw.			2		4		ssw.				1	ssw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.24	768.1	62	16.7	61	n.			4		5		ene.						d. clouds.
H. M. S. Himalaya. N 32° 19′, W. 64° 52′			63	17.2	57	nnw.			3		9								d. clouds.
H. M. S. Minotaur, Terranova, Sicily	30.19	766.8	56	13.3	81	calm			0		4		sw.						d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.84	757.9	86.0	30.0	78	sse.			4		3		se.	0	0	3	se.		d. clouds.
S. S. British Princess, N. 49° 50′, W. 21° 15′†	29.81	757.2	48	8.9		nw.			5		6		nw.	0	0	high	nw.	fair.
S. S. Lord Clive, N. 42° 20′, W. 49° 25′						n			5		10			16 h'r	16 h'r	sm'h		rainy.
S. S. Alpin, San Juan, Porto Rico, W. I						e.			2				e.	0	0	sm'h		fine.
S. S. Dorian, Frith of Clyde, Scotland	29.45	748.0				ssw.			4		4			0	0	sm'h		fine.
S S. Llandaff City, N. 48° 55′. W. 16° 45′*†	29.62	752.3	52	11.1		nw.			7		5		nw.	hail	hail	hv'y	nw.	squally.
S. S. Scythia, N. 40° 56′, W. 62° 01′	30.33	770.4	46	7.8	84	nnw.			1		4		calm	0	0	mod	var.	clear.
S. S. Bohemia, N. 45° 11′, W. 39° 28′						sw.			4		6		sw.	0	0	long	sw.	cloudy.
S. S. Rugia, N. 45° 30′, W. 38° 10′	30.22	767.6	50	10.0		w.			1		10?			4 h'r	4 h'r	long	ne	clear.?
S. S. Archimede, (It.) N. 35° 44′, W. 9° 40′						wnw.			2		2		w.	0	0	h'vy	nw.	clear.
S. S. Picqua, N. 43° 40′, W. 8° 20′ *†	29.80	756.9	54	12.2	93	nw.			9				sw.	6 h'r	6 h'r	high	wnw.	cloudy.
S. S. Texas, N. 32° 39′, W. 76° 20′			65	18.3	100	sw.			6		9			0	0	sm'h		cloudy.
S. S. England, N. 48° 21′, W. 32° 08′	30.16	766.1				nw.			4		2		nw.	0	0	mod	n.	d. clouds.
S. S. Erin, New York, N. Y †	30.36	771.1	26	— 3.3		nw.			1		0			0	0			fine.
S. S. Leipzig. N. 2° 48′, W. 30° 19′*	29.98	761.5	88.0	31.1	92	n.			1		8		ssw.	0	0	sm'h	ne.	cloudy.
S. S. Strassburg. N. 28° 29′, W. 18° 16′	30.21	767.3	67.0	19.4	69	s.			2		5?		se.	5 h'r	5 h'r	1	nw.	cloudy.?
S. S. City of Augusta, Savannah, Ga						calm			0		0			0	0			clear.
S. S. Muriel, Antigua, W. I	30.18	766.6	77	25.0		ne.			3		0			0	0	sm'h		clear.
S. S. Waesland, Antwerp, Belgium	29.75	755.6	52	11.1		sw.			4		6		sw.	0	0			fair.
S. S. Westernland, N. 47° 16′, W. 36° 17′	30.10	764.5	52	11.1	86	wnw.			1		8		wsw.	0	0	long	nne.	cloudy.
S. S. W. A. Scholten, Rotterdam, Netherlands	29.79	756.7	52.7	11.5	87	sw.			4		5		ssw.	0	0			
S. S. State of Nebraska, N. 45° 47′, W. 41° 18′?†	30.12	765.0	52	11.1		sse.			4		9		s.				n.	cloudy.
S. S. Saxon, Boston, Mass			26	— 3.3		wnw.			1		5			0	0			fair.
S. S. Celtic, Liverpool, Eng.			51	10.6		ese.			5		7		sse.	2 h'r	2 h'r			fine.
S. S. Republic, N. 48° 01′, W. 33° 24′*†	30.12	765.0	49	9.4	93	nw.			5		9		nnw.	0	0	mod.	nw;n	d. clouds

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Lepanto, N. 42° 40′, W. 10° 12′	29.65	753.1	60	15.6		ssw.			6		8		ssw.	0	0	con.	var.	cloudy.
S. S. Romano, Hull, England			44	6.7		w.			3		3		w.	sh'rs	sh'rs			hazy.
S. S. Salerno, N. 42° 49′, W. 53° 01′†	30.24	768.1	34	1.1		nw.			3		10?		nnw.	0	0	mod.	nw.	fair.?
S. S. Antonio Lopez, Barcelona, Spain	30.08	764.0	62.5	16.9	61	sw.			3	6 c				0	0			fair.
Bgt. Achsah, N. 23° 37′, W. 59° 48′†	30.17	766.3	74	23.3		ene.			3		3		ene.	0	0	mod.	ne.	clear.
S. Armenia, N. 45° 40′, W. 24° —′*	29.96	761.0	50	10.0	79	nnw.			5		6		nnw.	1 h'r	1 h'r	mod.	nw.	fair.
S. S. Bracadale, N. 43° 59′, W. 40° 15′			48	8.9		wnw.			6		8		wnw.	3 h'r	3 h'r	mod	w.	cloudy.
Bk. Benjamin Dickerman, N. 22° 20′, W. 55° 00′*†	30.14	765.5	72	22.2		ne.			4		8		nne.	0	0	long	nne.	fair.
S. Cornelius, N. 41° 13′, W. 51° 16′ *†	30.11	764.8	38.8	3.8		nne.			4		10			2 h'r	2 h'r	long	wsw.	cloudy.
S. David Stewart, Orchilla, Venezuela			80	26.7		ene.			4		2		ene.	sh'rs	sh'rs			
Schr. Edith R. Seward, N. 22° 34′, W. 55° 15′†	30.06	763.5	73	22.8		n.			1		4		ne.	0	0	long	n.	clear.
Bk. Fred W. Carlon, Progreso Roads, C. A.			80	26.7		ese.			4		0			0	0	mod.	ne.	clear.
Bk. Gloire, N. 33 02′, W. 72° 41′ *	30.20?	767.1?	74?	23.3?		sse.			1		1		calm	light	light			clear.
Bk Godeffroy, N. 4° 56′, W. 40° 05′			80.2	26.8	84	ne.			4		4		ne.	light	light	mod.	ne.	fair.
Bk. George Davis, N. 41° 55′, W. 38° 00′*†	30.14	765.5				e.			1				e.	0	0		nne.	cloudy.
Bk. Galeon, Grimsby Road, Eng†	29.50	749.3	48	8.9		ssw.			6		8		ssw.	light	light			overcast.
Bk. Hattie G. McFarland, N. 17° 43′, W. 80° 50′†	30.09	764.3	78	25.6		e.			4		3		e.	0	0	short		fine.
S. Henry, N. 43° 36′, E. 15° 32 *	30.17	766.3	50.7	10.4		nw.			4	4 cs	0					2	nw.	hazy.
Bg. John Wesley, N. 35° 50′, W. 74° 23						nne.			4		3		nne.	1 h'r	1 h'r	r'gh	n.	fair.
Schr. Jas Slater, N. 37° 46′, W. 70° 07′*†	30.35	770.9				n.			3		5		calm	0	0	mod.	wnw.	
Bg. John Welsh, jr, N. 29° 14′, W. 74° 17′†	30.25	768.3				ese.			3				ne.			h'vy	nne.	
Schr. Jenny Greenbank, N. 40° 00′, W. 73° 40′			35	1.7		nne.			3		1		n.	0	0	long	s.	clear.
S. S. Laurel, Key West, Fla†	30.13	765.3	73	22.8		ene			2–3		9		e.	1½ h'r	1½ h'r			cloudy.
Bg L. F. Munson, N 26° 09′, W. 76° 15′			70	21.1		ene.			3		1		e.	0	0	long	nw.	clear.
S. S. Madrid, Portland, Eng†	29.69	754.1	50	10.0	93	ssw.			4		8		ssw.	5 h'r	5 h'r	r'gh	sw	overcast.
Schr. Minnie A. Bonsall, Brunswick, Ga						sw.			1					0	0			clear.
Schr. Maggie Abbott, N. 25° 30′, W. 71° 55′*†	30.16	766.1				ene.			4		3		se.	rain	rain	long	w.	clear.
Schr. Norena, Ponce, Porto Rico, W. I.						n.			1		1		ene.	0	0			fine.
Bk. Orpheus, N. 47° 25′, W. 20° 25′ *	29.91	760.5	48	8.9		nnw.			4		6 k		w.			mod.	n.	fair.
Bk. Sunbeam, N. 39° 08′, W. 54° 48 *†	30.05	763.3	56	13.3	87	nnw.			7		7		n.	2 h'r	2 h'r	mod.	nnw.	clearing.
Bgt. Sunlight, N. 22° 56′, W. 55° 30′†	30.08	761.0				w			3		6		e	0	0	mod.	n.	fair.
S. St. David, N. 24° 40′, W. 40° 32′†*	30.06	763.5	72.3	22.4	76	wnw.			3		6		wnw.	3 h'r	3 h'r	long	nw.	showery.
S. Stephen D. Horton, Antwerp, Belgium †	29.87	758.7				ssw.			4		5		sw.	4 h'r	4 h'r			fair.
Bk. Silica, Elbe river, Germany *	29.82	757.4				sse.			5		8		s.	shr's	shr's	sm'h		cloudy.
S. Vincenzo Accame, N. 37° 07′, W. 46° 47′†	30.12	765.0	64.4	18		calm			0		10			0	0	h'vy	ne.	cloudy.
Bk. Western Chief, N. 39° 26′, W. 71° 26 *†	30.24	770.6				ne; e.			3		1 s		ne.			3	sw.	hazy.
S. S. City of Alexandria, N. 37° 35, W. 74° 41′			43	6.1		n.			3								sw.	d. clouds.
S. S. D. J. Foley, N. 18° 30′, W. 75° 45′*†	30.05	763.3	77	25.0		ne.			2									clear.
S. S. Maasdam, N. 40° 30′, W. 70° 15′			39.4	4.1		nw.			3							mod		fair.
S. S. Strathleven, N. 48° 56′, W. 16° 40′ *	29.62	752.3	49.4	9.7	88	wnw.			6		6		wnw.			6	wnw.	squally.
S. Frank N. Thayer, N. 38° 33′, W. 68° 10′ *	30.26	768.6	50	10.0	65	n.			3	1 c				0	0	mod.	sse.	blue sky.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.87	758.7	71	21.7	90	e.			1		8		calm					cloudy.
H. M. S. Amethyst, S. 36° 21′, W. 55° 03′	29.77	756.1	69.5	20.8	82	ese.			2		7	ne.				3	e.	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	29.88	758.9	71	21.7	80	ese.			1		4	e.						d. clouds.
H. M. S. Sylvia, First Narrow, Patagonia	29.54	750.3	45	7.2	76	w			4–6		8							squally.
H. P. M. S. Tejo, Nokl, Guinea	30.01	762.2	86.9	30.5	89	calm			0		9			0	0			overcast.
H. P. M. S. Bengo, S. 3° 51′, W. 4° 50′	29.92	759.9	83.8	28.8	80	s.			2		10		s.	0	0	3	s.	gloomy.
S. S. Hevelius, S. 29° 21′, W. 45° 41′*†	30.09	764.3	80	26.7		ese.			6		3		se.; w.	0	0			clear.
S. S. Rosse, Bahia, Brazil	29.88	758.9				var.			2		3		ne.	1 h'r	1 h'r			fine.
Bk. Adelaide, S. 8° 19′, W. 33° 59′ *†	29.99	761.7				ese.			4		1		se.	0	0	mod.	se.	clear.
Bk. Celestina, S. 26° 26′, W. 40° 04′*†	30.02	762.5				e.			3		5		ene.	0	0	r'gh	var.	fair.
S. S. George S. Homer, S. 21° 27′, W. 29° 41′*†	30.12	765.0				ne.			1		1		ene.	0	0	sm'h	e.	fine.
S. Grecian, S. 27° 40′, W. 29° 20′†	30.08	764.0	75	23.9	95	ene.			1		8	n.	se.	2 h'r	2 h'r	mod	s.	fair.
S. Henry Failing S. 26° 12′, W. 23° 10′*†	30.06	763.5	81	27.2	96	nnw.			2		3		nnw.	0	0	sm'h		clear.
Bk. Horace Scudder, Banana creek, Guinea *†	30.10	764.5	87	30.6		w.			2		2		w.	0	0			fair.
Bkt. Levanter, Montevideo, Uruguay*	29.86	758.4	72	22.2		ene.			1		0		e.	1 h'r	1 h'r			fair.
Bk. Winifred, S. 5° 51′, W. 34 09′ *†	30.00	762.0											se.	0	0		se.	
S S. Teniers, S. 33° 16′, W. 52° 00′	29.83	757.7	73.2	22.9	94	n.			5	cs	8 ks	sw.	sw.	0	0	4	ne.	squally.
S. Orealia, S. 40° 06′, E. 7° 40′*	29.51	719.5				w.			0		5		w.	0	0	mod.	w.	fair.
District No. 3—North Pacific.																		
U. S. S. Alert, Nagasaki, Japan	30.29	769.4	43	6.1	83	sse.			1		2		nw.					fair.
U. S. S. Essex, Canton, China	30.24	768.1	59	15.0	100	ne.			1		10							overcast.
U. S. S. Hartford, N. 20° 22′, W. 151° 21′	30.06	763.5	76	24.4	82	sse.			2		5		n	0	0	long	n ;w.	fair.
U. S. S. Junata, Nagasaki, Japan	30.20?	767.1?	47	8.3	92	n.			2		2		n.	light	light			cloudy.?
U. S. S. Monocacy, N. 26° 08′, E. 119° 37′	30.43	772.9	47	8.3	70	ene.			3		10		n.			sm'h		cloudy.
U. S. S. Palos, Tientsin, China	30.44	773.2	32	0.0		sse.			2		0							clear.
H.M.S. Audacious, Victoria harbor, Hong Kong, China	30.22	767.6	62	16.7	94	calm			0		0							blue sky.
H. M. S. Cleopatra, N. 24° 20′, E. 118° 05′						ne.			3–5							1		squally.
H. M. S. Champion, Shanghai, China	30.55	776.0	44	6.7	68	n.			1		1							blue sky.
H. M. S. Flying Fish, N. 24° 26′, E. 118° 04′	30.34	77 .6	53.2	11.8	67	e.			2–5		4	w.				1		squally.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.91	759.7	84.5	29.2	67	s.			1		7							misty.
H. P. M. S. Tamega, Macao, China	30.28	769.0	66.2	19.0	81	calm			0		0			0	0			blue sky.
S. S. Newbern, N 23° 10′, W. 107° 12′ *†	30.04	763.0	70	21.1	75	nw.			1		3		nw.	0	0	small	nnw.	clear.
S. S. Oregon, Astoria, Oregon †	30.26	768.6	43	6.1	92	sw.			2		10		sw.					threatening.
S. S. Alameda, N. 22° 41′. W. 156° 28′†	30.10	764.5	72	22.2		s.			3		3		sw.	0	0	light	wnw.	clear.
S. S. Ancon, Pigeon Point, Cal.	30.30	769.0	55	12.8	87	n.			2		0			0	0	sm'h	wsw.	clear.
S. S. City of Chester, Hookton, Calf	30.41	772.4	42	5.6	100	calm			0		0			0	0			
S. S. Queen of the Pacific, New Tacoma, Wash. Ter.			46	7.8	92	calm			0		4?		calm	10 h'r	10 h'r			cloudy.?
S. S. State of California, Portland, Oregon			39	3.9	?	calm			0		8		e.					cloudy
S. S. Eureka N. 58° 14′ W. 134° 18′			28	— 2.2	88	ne.			5		10			20 h'r	20 h'r	sm'h		cloudy.
S. S. Australia, N. 3:° 31′, W. 140° 04′	30.37	771.4	66	18.9	94	se.			2		2		se.	0	0	long	w.	clear.
S. S. City of Pekin, N. 37° 16′, W. 121° 21′†	30.39	771.9	52	11.1	86	n.			2		2		nw.			mod.	nw.	foggy.
S. S. City of Rio de Janeiro, N. 21° 28′, E. 119° 20′†	30.33	770.4				ne.			0		7		ne.			large	ne.	fair.
S. S. City of Sydney, N. 29° 38′, W. 143° 29′ *†	30.18	766.6	70	21.1	80	sse.			3		9 s		sse.			mod.	w.	cloudy.
S. S. Colima, Panama, Panamaf	30.00	762.0	77	25.0	82	nw.			2		5		calm	0	0			clear.
S. S. San Blas, N. 18° 42′, W. 104° 04′†	29.94	759.5	74	23.3	90	calm			0		5		wsw.	0	0	h'vy	w.	hazy.
S. S. San Jose, N. 23° 10′, W. 105° 12′ *†	30.19	766.8	71	21.7		ese.			4		0			0	0	mod.	wnw.	clear.
S. S. Benalder, Kobe, Japan *	30.15	765.8	42	5.6	66	n.			2–3		0			0	0	sm'h		
S. St. Francis, N. 29° 00′, W. 130° 45′			59	15.0	76	nne.			5		4		nne.	½ h'r	½ h'r	mod.	nnw.	fair.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, Callao, Peru *	29.98	761.5	71	21.7	100	calm			0		5		calm			long	ssw.	fair.
H. M. S. Constance, S. 29° 10′, W. 77° 00′	30.08	764.0	66	18.9	79	s.			4		6	s.				4	sw.	d. clouds.
H. M. S. Espiegle, S. 46° 36′, E. 167° 25′	29.68	753.9	55	12.8	68	wsw.			5		10					4	sw.	showery.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.74	755.4	65.3	18.5	84	ssw.			3		10					sm'h		raining.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.91	759.7	54	12.2	100	calm			0		7							d. clouds.
S. S. Zealandia, Sydney, N. S. W.	29.90	759.4	79	26.1	82	calm			0		0			0	0			fine.
S. Ismir, S. 57° 07′, W. 71° 00′ *†	29.20	741.7				wsw.			9		9		wsw.	4 h'r	4 h'r	mod.	wsw.	cloudy
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.91	759.7	62	16.7		calm			0		0					sm'h		
District No. 5—Indian Ocean.																		
H M. S. Euryalus, Suakin, Egypt	29.80	756.9	78	25.6	86	ne.			2		3	sw.						d clouds.
H. M. S. Tourmaline, S. 15° 50′. E. 50° 20′.	29.93	760.2	83	28.3	90	ene.			2		0					sm'h		d. clouds.

International Chart I. February 22, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

By Order of the Secretary of War.

W.B. Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 23, 1884,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.14	765.6	64.8	18.2	84	w.			1		0			0	0		Roziere.
Algiers			30.15	765.7	66.6	19.2	53	w.			2		5			0	0		Thève.
La Calle			30.17	766.3	61.5	16.4	85	ne.			1		1			0	0		Fonfrède.
Tunis			30.21	767.3	56.5	13.6	54	nw.			3		3			0	0		Delord.
Geriville					54.0	12.2	41	sw.			3		2			0	0		Forfert.
Laghouat			30.25	768.4	63.3	17.4	74	calm			0		0			0	0		Abraham.
Biskra			30.29	769.3	63.0	17.2	68	calm			0		3			0	0		Gouzon.
Australian.																			
Adelaide, South Australia			30.43	772.9	55.9	13.3	58	sse.	12	5.4			1 ks			0.114	2.9	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.94	760.5	30.13	765.3	51	10.6	67	sw.	5	2.2			2		w.	0.01	0.3	clear	Com. J. Shortt, R.N.
Melbourne, Victoria	30.21	767.3	30.30	769.6	56.7	13.7	62	sw.	15	6.7			3			0.09	2.3	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747.1	29.97	761.2	50.0	10.0	28	sw			3		1			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.09	738.9	29.86	758.5	50.0	10.0	64	ese.	1.3	0.6			10			0.008	0.2		Dr. Wierzbiski
Eperies	29.10	739.2	30.00	762.1	43.2	6.2	65	s.			1		10			0	0	foggy	Julius Mikolik.
Gratz	28.66	728.0	29.94	760.4	44.8	7.1	49	s.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.59	726.2	30.05	763.3	46.8	8.2	46	se.			3		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.50	723.9	29.85	758.2	46.8	8.2	89	nnw.			1		7			0	0		The Staff.
Lemberg	29.02	737.0	30.04	763.0	36.1	2.3	82	se.			3		10			0.024	0.6		Dr. T. Stanecki.
Pola	29.96	761.0	30.08	763.9	51.4	10.8	71	se.			2		9			0	0		I. R. Hydrographic Office.
Szathmar	29.54	750.3	30.01	762.3	48.6	9.2	53	s.			3		1			0	0		Joseph Midlinszky, S. J
Szegedin	29.73	755.1	30.01	762.3	51.1	10.6	40	s.			2		0			0	0		Karl Stancel.
Trieste	30.01	762.3	30.11	764.8	47.8	8.8	51	calm			0		10			0	0		Royal Academy.
Vienna	29.19	741.3	29.91	759.7	47.1	8.4	49	se.			1		9			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.29	718.5	29.67	753.7	45.5	7.5	96	sw.			2		5			0.472	12.0	raining	
Brussels	29.46	748.3	29.66	753.4	46.6	8.1	78	sw.			3		10		wsw.	0.106	2.7		
Furnes	29.80?	757.0?	29.82?	757.5?	46.8	8.2	92	wsw.			1		10			0.453	11.5		
Maeseyck	29.57	751.0	29.69	754.2	48.2	9.0	79	wnw.			1		10			0.177	4.5		
British.																			
Aberdeen	29.22	742.2	29.32	744.7	40.5	4.7	82	se.	6	2.7			3			0.010	0.3	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			29.36	745.7	43.0	6.1	85	s.	14	6.3			10					raining	John Hartnup.
Bolton, Sharples	28.83	732.3	29.36	745.7	42.5	5.8	85	ssw.	12	5.4			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	28.98	736.1	29.38	746.2	43.9	6.6	77	sw.			2		9			0.07	1.8	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.00	762.0	30.03	762.7	79	26.1	79	e.			4		3					d. clouds	Corp'l C. McGregor, A.H.C
Cardington					45.2	7.3	80	sw.			1.0		5					d. clouds	John McLaren.
Chatham, School M. E.	29.38	746.2	29.56	750.8	48.1	8.9	87	sw			1		7			blank	blank	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.38	746.2	29.61	752.1	45.4	7.4	80	wsw.			5		10					showery	The Staff.
Fort Napier, Natal	27.59	700.8	29.90	759.4	80.0	26.7	66	nw.			2		4					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.20	741.7	29.24	742.7	45	7.2	92	se.			4		8			0.19	4.8	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.16	766.1	30.24	768.1	54.4	12.4	95	nw.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.37	746.0	29.54	750.3	49.1	9.5	71	wsw.					8					d clouds	The Staff.
Guernsey	29.38	746.2	29.68	753.9	49.0	9.4	50	wsw.			3		8					showery	A. Collenette, F.R.M.S.
Kew, Observatory	29.51	749.5	29.55	750.6	48.5	9.2	67	wsw.	17	7.6			8					d. clouds	The Staff.
Leicester, Museum	29.19	741.4	29.45	748.0	46.5	8.1	75	sw.			1		9					d. clouds	J. C. Smith.
Malta, Mediterranean	30.05	763.3	30.13	765.3	57.6	14.2	86	nw			3		1			0	0	blue sky	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.10	764.5	74.5	23.6	72	s.			1		4			blank	blank	d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.29	744.0	29.52	749.8	47.2	8.4	75	sw.			4		8					d. clouds	The Staff.
Plymouth	29.50	749.3	29.58	751.3	48.0	8.9	89	sw.			4		4					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.20	741.7	29.31	744.5	41	5.0	97						0					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.00	762.0	30.07	763.8	49.0	9.4	52	ene.			2		3					d. clouds	W. H. Lyne.
Sheffield	29.16	740.7	29.44	747.8	46.0	7.8	73	sw.			2		4					d. clouds	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss					49.9	9.9	73	w.			2.5		5					d. clouds	Rev. O. H. Griffiths, F.M.S
Valencia, Observatory	29.39	746.5	29.42	747.3	48.4	9.1	70	w.	28	12.5			10			blank	blank	squally	The Met'r'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.82	757.4	30.22	767.6	54.0	12.2	65	w	6.2	2.8		0	6 n		w.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.90	759.4	29.94	760.5	18.0	— 7.8		calm	0	0			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.06	763.5	30.10	764.5	28	— 2.2	88	se.	12	5.4			10 s		calm	inap.	inap.	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.92	760.0	29.99	761.7	21	— 6.1	96	se.	2	0.9			10 s		se.	0.01	0.3	cloudy	G. A. Blair.
Cornwall, Ontario	29.53	750.0	29.73	755.1	28.7	— 1.8	76	nw.			3		10 s			0.030	0.8	overcast	Jas. Smith, M. A.
Dalhousie, N. B	29.86	758.4	29.91	759.7	18.0	— 7.8		e.			5		10 n			0.200	5.1	snowing	H. A. Johnson.
Father Point, Quebec*	29.61	752.1	29.63	752.6	29	— 1.7	77	s.	30	13.4		8 cs	2 n	calm	calm	0	0	cloudy	J. McWilliams
Fort Garry, Manitoba*	29.12	739.6	30.10	764.5	—23	—30.6	85	s.	3	1.3			10 n			0	0	hazy	James Stewart.
Fredericton, N. B	29.89	759.2	29.96	761.0	25.3	— 3.7	97	s.	2	0.9			10 s			0	0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B	29.92	760.0	29.97	761.2	36	2.2	72	s.	16	7.2			10 n		s.	0.06	1.5	light rain	J. Chipman Seeley
Granton, Ontario	28.81	731.8	30.00	762.0	11.6	—11.3	96	calm	0	0		8 cs	0	w.		0.200	5.1	d. clouds	Jas. Grant.
Halifax, N. S*	30.03	762.7	30.16	766.1	32	0.0	96	e.	6	2.7			10 k		sw.	inap.	inap.	cloudy	A. Allison.
Hamilton, Ontario	29.50	749.3	29.92	760.0	30.2	— 1.0	88	sw.			1	4 c	0	sw.		0.250	6.3	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.49	749.0	29.85	758.2	23	— 5.0	92	ne.	5	2.2			10 ks		ne.	0.02	0.5	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.09	764.3	30.14	765.5	31.0	— 0.6	100	s.	6	2.7			10 n			0	0	overcast	C. H. Rigby.
London, Ontario	29.05	737.9	30.03	762.7	13.3	—10.4	89	calm			0	0	8 d			0.050	1.3	d. clouds	E. B. Reed.
Medicine Hat, N. W. T	27.50	698.5	29.92	760.0	16	— 8.9	91	sw.	15	6.7			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	27.86	707.6	30.03	762.7	— 7	—21.7	100	nw.	6	2.7			10 s		nw.	0	0	cloudy	Rev. J. M. Wellwood
Montreal, Quebec*	29.50	749.3	29.72	754.9	29	— 1.7	84	w.	9	4.0			10 n			inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.52	749.8	29.75	755.6	20.0	— 6.7	68	w.				8 k	0			0.100	2.5	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.17	740.9	29.94	760.5	1	—17.2	66	w.	8	3.6			0			0.26	6.6	clear	Rev. R. Mosley.
Peterboro, Ontario	29.13	739.9	29.94	760.5	10.7	—11.8	70	nw.			2	5 c	0	nw.		0.16	4.1	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.26	743.2	30.04	763.0	— 3	—19.4	65	se.	2	0.9			0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.21	741.9	29.96	761.0	15	— 9.4	82	n.	12	5.4		2 c	0	nw.		0.10	2.5	fair	R. Morgan
Port Stanley, Ontario	29.29	744.0	29.98	761.5	16	— 8.9	83	n.	6	2.7			8 k		w.	0.10	2.5	cloudy	M. Payne.
Qu Appelle, N. W. T	27.58	700.5	30.08	764.0	0	—17.8		calm	0	0		10 cs	0	calm		0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.28	743.7	29.65	753.1	26	— 3.3	92	n.	4	1.8			10 s			inap	inap.	light snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.31	744.5	29.80	756.9	0	—12.8	80	nw.	6	2.7		0	8 k		nw.	0.20	5.1	fair	W. H. McIntyre.
St. Andrews, N. B	29.85	758.2	29.90	759.4	34	1.1	94	s.	5	2.2			10 n			inap.	inap.	light rain	
St. John, N. B	29.82	757.4	29.96	761.0	30.3	— 0.9	96	se.	16	7.2		5 k	5 k	sw.		0.07	1.8	raining	G. Hutchinson.
St. Pierre, N. F			30.32	770.0	24.8	— 4.0		w.			2								The Commandant.
Saugeen, Ontario*	29.21	741.9	29.99	761.7	10	—12.2	96	n.	6	2.7			10 s			0.02	0.5	cloudy	
Stratford, Ontario	28.64	727.4	30.03	762.7	9.1	—12.7	83	calm	0	0		8 cs	0	w.		0	0	overcast	W. McBride, M.A.
Sydney, C. B*	30.24	768.1	30.30	769.6	28	— 2.2	92	se.	2	0.9			10 n			0.03	0.8	cloudy	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.55	750.6	29.97	761.2	15	— 9.4	70	nw.	8	3.6			10 ks		w.	0.10	2.5	cloudy	[illegible] Observatory.
Woodstock, Ontario	28.86	733.0	30.01	762.2	13.3	—10.4	87	s.	7	3.1			10 s			0.150	3.8	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.90	759.4	29.97	761.2	38	3.3	100	se.	18	8.0		5 k	5 s	w.	se.			raining	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.83	757.7	29.86	758.4	70.5	21.4	87	sw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.82	757.4			72.0	22.2	61	ne.				0	6 n; k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.80	706.1			83	28.3	34									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.91	759.8	29.99	761.7	61.7	16.5	84	ne.			1	10						cloudy	Samuel Redolez.
Iquique	29.95	760.7	29.98	761.4	67.1	19.5	77	sw.			3	3 c						foggy	Rafael Moreno.
Niebla	29.63	752.7	29.74	755.4	57.9	14.4	74	e.			3	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.87	758.8	29.96	761.0	64.0	17.8	85	sw.			1	10 c		sw.				cloudy	Manuel Tobar.
Punta Corona	29.98	761.6	30.17	766.3				w.			1	10				0	0	cloudy	Francisco Alvarado.
Valparaiso	29.90	759.5	30.04	763.0	60.8	16.0	88	s.			1	0	0					clear	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.44	773.1	30.46	773.7	36.0	2.2	75	s.	3.8	1.7			0			0	0	clear	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.40	746.7	29.45	747.9	41.5	5.3	99	sse.	20	9			10					raining	Oversergent Fischer.
Fanöe	29.37	746.1	29.39	746.6	40.5	4.7	92	w.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.95	760.6	29.99	761.7	5.0	—15.0	100	ne.			4		4						S. Kleinschmidt.
Ivigtut, Greenland	29.88	759.0	29.90	759.5	23.7	— 4.6		calm			0		10						
Jacobshavn, Greenland	30.18	766.5	30.22	767.7	—11.7	—24.3		calm			0		0						
Stykkisholm, Iceland	29.54	750.3	29.58	751.4	32.7	0.4	87	calm			0		0						A. O. Thorlacius.
Thorshavn	29.32	744.6	29.34	745.2	41.0	5.0	89	e.	7	3			7						Overloerer Bergh.
Upernavik, Greenland	30.18	766.6	30.23	767.8	— 3.3	—19.6		e.			2		5						
Vestervig	29.12	739.6	29.21	741.9	40.8	4.9	97	wsw.			7		10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.84	757.8			59.0	15.0		w.	9.8	4.4		0	8 k			0.154	3.9		Albert Ismaiun.
French.																			
Agen, Normal School	29.29	744.0	29.95	760.7	55.4	13.	77	se.			1		9	w.	nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.20	741.7	29.75	755.7	49.1	9.5	84	sw.			1		5 k		ne.	0.094	2.4	cloudy	M. Nicot, Director.
Arras, Normal School	29.43	747.4			46.4	8	86	w.			4		10		w.	0.224	5.7	covered	M. Ungerer, Director.
Avignon, Normal School	29.88	759.0	29.96	761.0	59.4	15.2	55	ese.			1		8		se.	0	0	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.23	742.5	29.79	756.6	49.6	9.8	80	wnw.			2		10		wsw.	0.315	8.0	sprinkling	M. Saillard, Director.
Beauvais, Normal School	29.46	748.2	29.72	755.0	48.7	9.3	73	s.			1		10		w.	0.161	4.1	covered	M. Frère Eugène Marlè.
Besançon, Normal School	28.87	733.2	29.76	755.8	56.8	13.8	50	sw.			1		10 n		ne.			raining	M. Gobin, Director.
Bordeaux, Observatory	29.61	752.1	29.87	758.8	51.3	10.7	81	w.			1		10		wsw.	0.024	0.6	covered	M. Rayet, Director.
Bourges, Normal School	29.24	742.8	29.80	756.9	48.9	9.4	92	sw			1		n		sw.	0.362	9.2		M. Sauvageot, Director.
Brest, Naval Observatory	29.58	751.4	29.83	757.6	52.9	11.6	75	wsw.			2		3		wsw.	0.453	11.5		M. de Kermarée, Dir.
Caen, Normal School	29.63	752.7	29.71	754.6	50.0	10.	95	w.			1		5		w.	0.47	12.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.41	747.0	29.73	755.1	48.7	9.3	96	sw.			1		10			0.244	6.2	covered	M. Jadot, Director.
Charleville, Normal School	29.18	741.1	29.69	754.2	46.0	7.8	77	w.			1		10		w.	0.551	14.0	covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.46	722.9	29.80	756.9	56.5	13.6	58	sw.			2		8		s.	0	0		M. Allnard, Director.
Cluny, Normal School	29.02	737.0	29.91	759.8	54.3	12.4	68	se.			4		10		se.	0.043	1.1	covered	M. de Villemontée, Dir.
Commercy, Normal School	28.90	734.1	29.77	756.1	51.8	11	75	ssw.			4		5 kn	ssw.	ssw.	0.043	1.1	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.47	697.7	30.02	762.6	51.4	10.8	54	ne.			1		7 k			0	0		M. Jarach, Director.
Grésasque, du Rhone	28.86	733.0	29.98	761.4	57.7	14.3	65	se.			6		9		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.11	739.3	29.92	759.9	59.0	15	50	ssw.			6	ck	5 n		sw.	1.382	35.1	cloudy	M. Ablard, Director.
Guéret, Normal School	28.25	717.5	29.82	757.3	48.2	9	81	sw.			6		n		sw.	0	0		M. Delorme, Dir.
Lescar, Normal School	29.35	745.5	29.89	759.3	58.3	14.6	50	w.			6		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.72	754.9	29.82	757.5	53.6	12.0	65	w.			2		2		w	0.118	3.0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.82	731.9	29.87	758.7	52.9	11.6	65	ssw.			6		8 n		sw.	0	0	very cloudy	M. André, Director.
Mans, Normal School	29.47	748.4	29.78	756.3	47.3	8.5		w.			1		8 kn		w.	0.165	4.2	very cloudy	M. Richard, Director.
Marseille, Observatory	29.71	754.7	29.98	761.5	58.5	14.7	69	sse.			4		10		sse.	0	0		M. Stephan, Director.
Montlouis	24.69	627.1	29.53	750.1	42.8	6.0	36	sw.	18.6	8.3			6		w.	0.087	2.2		M. Cave for Dr. Fines.
Montpellier, Normal School	29.78	756.4	29.89	759.2	54.3	12.4	95	sse.			4		10		ese.	0	0	covered	M. Galzin, Director.
Nancy, Normal School	28.94	735.1	29.72	755.0	52.9	11.6	65	sw.			2		kn		sw.	0.382	9.7		M. Hasse, Director.
Nantes, Observatory	29.68	753.8	29.84	757.9	53.6	12.0	57	wnw.			1–2		5 k; kn		w.	0.307	7.8		M. Larocque, Director.
Perpignan, Observatory	29.77	756.1	29.88	758.9	57.0	13.9	71	e.	1.8	0.8			10		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.04	534.4			23.0	— 5.0		wsw.			2		10		w.	0	0	covered	M. Vaussenat, Director.
Privas, Normal School	28.86	733.1	29.94	760.4	50.7	10.4	77	s.			6		n	s.	s.	0.098	2.5		M. Taillieu.
Puy de Dôme Obs'y, Summit	24.95	633.6			34.9	1.6	100	sw.			6		10			0	0		M. Allnard.
Rochefort, Naval Obs'y	29.81	757.2	29.84	758.0	50.4	10.2	86	wsw.			2		10		wsw.	0.43	11.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.63	752.5	29.84	758.0	51.1	10.6	75	sw.			1		10		sw.	0.291	7.4	raining	M. Brotier, Director.
Rodez, Normal School	27.95	709.8	30.10	764.5	55.0	12.8		ne.			0–6		10		se.			raining	M. Seger, Director.
Rouen, Normal School	29.68	753.8	29.72	755.0	49.6	9.8	76	s.			1		5	s.		0.272	6.9	cloudy	M. Moullot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.58	751.4	29.75	755.6	46.4	8.0	83	wsw.			1				wsw.	0.075	1.9		M. Renou, Director.
Toulouse, Observatory	29.20	741.7	29.92	760.0	59.4	15.2	74	se.			1		8	w.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.61?	752.1?	29.61?	752.1?	51.1	10.6	77	wnw.			1		8	wnw.	w.	0.197	5.0	very cloudy	M. de Tastes.
Versailles, Observatory	29.24	742.8	29.74	755.4	45.3	7.4	83	n.			1		2			0.024	0.6	slightly cl'dy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.82	757.4	29.97	761.2	52.2	11.2	77	w.	27.5	12.3			9 k		s.	0.020	0.5		M. Cartier, Director.
German.																			
Ansbach	28.36	720.4	29.80	756.9	53.2	11.8	70	sw.			2		7	sw.		0.083	2.1		Prof. Jnedt.
Bamberg	28.92	734.6	29.76	755.8	50.0	10.0	66	s.			1		6 ks		s.	0.079	2.0		Prof. Dr. Hoh.
Berlin	29.51	749.5	29.65	753.2	49.6	9.8	84	sw.			3		10			0.003	1.0		Meteorological Institute
Breslau	29.30	744.2	29.83	757.6	44.8	7.1	64	sse.			2		10			0.008	0.2	raining	Royal University Obs'y
Carlsruhe	29.31	744.5	29.76	756.0	56.8	13.8	62	sw.			2		8	sw.		0.268	6.8		Albert Senz.
Cassel	28.92	734.0	29.63	752.7	49.6	9.8	86	sw.			4		10	w.		0.120	3.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.35	745.5	29.72	754.8	52.3	11.3	87	ssw.			2		9			0.189	4.8		Physical Society.
Friedrichshafen	28.43	722.0	29.85	758.2	49.3	9.6	75	ssw.			2		5	sw.		0.031	0.8		Wilhelm, Chief Tel.
Hamburg	29.47	748.5	29.56	750.8	46.8	8.2	86	wsw.			4		10			0.091	2.3		E. Preiler.
Kiel	29.50	749.3	29.52	749.7	43.2	6.2	87	wsw.			4		10			0.079	2.0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.29	744.0	29.71	754.6	52.5	11.4	76	sw.			4		9	sw.		0.094	2.4		H. Leppig, Asst.
Magdeburg	29.44	747.7	29.63	752.5	52.9	11.6	77	ssw.			3		10			0.134	3.4		Weather Observatory.
Memel	29.84	758.0	29.89	759.2	36.5	2.5	87	s.			4		10						Issermann.
Munich	28.03	711.9	29.88	758.9	53.2	11.8	56	calm			0		7	sw.		0	0		Central Station.
Neufahrwasser	29.78	756.4	29.80	756.8	41.7	5.4	86	s.			3		10			0.031	0.8		A. Lothes.
Neustadt, Palatinate	29.21	742.0	29.73	755.2	54.7	12.6	74	s.			1		8	sw.		0.122	3.1	light rain	Prof. Dickenether.
Stuttgart	28.81	731.8	29.69	754.2	56.7	13.7	59	sw.			1		7	w.		0.102	2.6		Prof. Dr. Schoder.
Wustrow	29.51	749.5	29.53	750.1	42.8	6.0	91	sse.			2		10			0.059	1.5		Profs. Brandes & Reimer
Greek.																			
Athens	29.66	753.4	30.05	763.2	58.3	14.6		ne.			1.0	0	6			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.95	760.7	30.00	762.0	76.9	24.9	59	w.	21.0	9.4			0			0	0	blue sky	
Deesa	29.44	747.8	29.91	759.7	88.5	31.4	23	w.	8.0	3.6			3	wsw.	wsw.	0	0	d. clouds	
Bombay	29.89	759.2	29.93	760.1	78.9	26.1	72	wnw.	10.0	4.5			0			0	0	blue sky	
Poona, Yarrowda	28.11	714.1	29.96	760.9	84.3	29.1	24	w.	22.0	9.8			0			0	0	blue sky	
Belgaum	27.42	696.5	29.94	760.6	80.5	26.9	45	ssw.	9.0	4.0			4	w.	n.	0	0	d. clouds	
Lahore	29.27	743.5	30.04	762.9	69.7	20.9	40	n.	2.0	0.9			10			0	0	overcast	
Roorkee	29.11	739.4	30.04	763.0	66.8	19.3	50	w.					10	w.		0	0	overcast	
Agra	29.44	747.7	30.01	762.2	78.2	25.7	27	nw.					5		w.	0	0	d. clouds	
Nagpur	28.90	734.2	29.94	760.4	87.0	30.6	31	s.	10.0	4.5			7		w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.60	726.5	29.97	761.2	77.8	25.4	47	se.	8.0	3.6			9		sw.	0	0	gloomy	
Lucknow	29.66	753 4	30 05	763.2	73.2	22.9	26	calm	0	0			0			0	0	blue sky	
Allahabad	29.71	754.7	30.03	762.8	75.3	24.1	46	calm	0	0			10			0	0	overcast	
Patna	20.87	758.6	30.06	763.5	73.7	23.2	39	nw.	2.4	1.1			6	nw	nw.	0	0	d. clouds	
Hazaribagh	28.09	711.2	30.05	763.2	72.6	22.6	22	nw.	4.0	1.8			5	w.		0	0	d. clouds	
Cuttack	29.94	760.5	30.02	762.6	83.9	28.8	39	w.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	30.00	762.1	30.02	762.6	75.5	24.2	56	ssw.	0.5	0.2			0			0	0	blue sky	
Dhubri	29.99	761.8	30.11	764.8	73.4	23.0	60	n.	3.4	1.5			0			0	0	blue sky	
Chittagong	29.97	761.2	30.06	763 5	73.6	23.1	64	w.	3.4	1.5			0			0	0	blue sky	
Sibsagar	29.74	755 5	30.10	764.5	60.6	15.9	88	ne.	2.0	0.9			6	sw.	sw.	0	0	d. clouds	
Jeypore	28.54	725.0	30.01	762 1	75.1	23.9	32	e.	6.0	2.7			9		w.	0	0	overcast	
Zanzibar	29.89	759.2	29.91	759.8	86.6	30.3	49	ne.	6.2	2.8			2	ene.		0	0	d. clouds	
Bellary	28.47	723.1			89.0	31.7	26	se.				0	0			0	0	blue sky	
Trichinopoly	29.73	755.1			88.1	31.2	42	ne.	0.2	0.1		3	3			0	0	d. clouds	
ITALIAN.																			
Udine	29.66	753.3	30.08	763 9	48.4	9.1	46	sw.	1.3	0.6			6			0	0		Prof. Giovanni Clodig.
Milan	29.57	751.1	30.10	764.6	44.2	6.8	91	nw.	2.5	1.1			9	sw.		0.043	1.1		Prof. G.V.Schiapparelli
Padua	29.97	761.1	30.08	764.0	45.0	7.2	71	calm	0	0			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.10	739 2	30.03	762.7	46.4	8.0	83	e.	2.5	1.1			7	n.		0	0		Prof. F. F. Denza.
Genoa	29.87	758.8	30.07	763.7	55.0	12.8	81	se.	7.4	3.3			10	s.		0.445	11.3		Prof. G. M. Garibaldi.
Pesaro	30.01	762.3	30.06	763.6	57.6	14.2	56	sw.	3.8	1.7			7	wnw.		0	0		Prof. Luigi Guidi.
Florence	29.85	758.3	30.11	764.9	53.6	12.0	69	sw.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.96	760.9	30.03	762.7	55.4	13.0	76	s.	3.1	1.4			10			0	0		Prof. P. Monte.
Rome	29.96	761.0	30.14	765 5	54.5	12.5	49	w.	0	0			1			0	0		Prof. P. Tacchini.
Lecce	29.83	757.8	30.10	764.4	54.7	12.6	61	nnw.	8.7	3.9			1			0	0		Prof. C. de Giorgi.
Cosenza	29.24	742.7	30.15	765.8	50.4	10.2	74	w.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.91	759 8	30.17	766.3	53.2	11.8	62	ne.	4.3	1.9			0			0	0		Prof. G. Cacciatore
Syracuse	30.06	763.6	30.11	764.7	55.9	13.3	63	nne.	3.8	1.7			0			0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.63	752.5	30.16	766.0	54.0	12.2	71	se.	0.7	0.3			5	w.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.96	760.9	29.99	761.7	28.0	— 2.2	70	calm			0	0	0			0.012	0.3	clear	H. Hattori.
Awomori	29.97	761.2	30.00	762.0	25.7	— 3.5	70	s.	8.2	3.7			10 n			0.021	0.5	light snow	K. Ogawa.
Hakodate	30.00	762.0	30.01	762.3	29.0	— 1.7	82	n.	10.2	4.6		0	2 s			0	0	clear	Y. Souma.
Hamamatsu	29.94	760.5	30.04	763.0	35.8	2.1	58	w.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.14	765.6	30.16	766.0	31.3	1.3	67	nw.	2.7	1.2		1ck;cs	0			0.008	0.2	clear	Y. Okamoto.
Kagoshima	30.25	768.3	30.26	768.6	39.4	4.1	61	n.			2	0	1 s			0.193	4.9	clear	
Kanazawa	29.97	761.2	30.08	764.0	30.1	— 1.1	66	e.	7.1	3.1		0	1 s			0.030	0.8	clear	S. Endo.
Kioto	29.90	759.4	30.07	763.8	35.1	1.7	83	nw.	2.9	1.2			10 n			0.009	0.2	light snow	M. Tojima.
Kochi	30.10	764.5	30.12	765.0	40.1	4.5	62	wnw.	14.8	6.6		0	0			0	0	clear	K. Kusunose.
Miasaka	30.20	767.2	30.23	767.9	38.6	3.7	55	wnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.90	759.5	30.01	762.3	29.0	— 1.7	86	calm	0	0			10 s			0.004	0.1	cloudy	N.Honno & K.Suwa.
Nagasaki, I. M. Obs'y	30.06	763.5	30.27	768.8	39.3	4.1	53	nw.	4.2	1.9		0	3 n		nw.	0.030	0.8	sleeting	
Nemuro	29.93	760.2	29.98	761.5	13.0	—10.6	66	calm	0	0		0	0			0	0	clear	A Shibuya.
Nigata	29.99	761.7	30.02	762.5	31.0	1.1	79	w.	7.8	3.5		0	5ks;s		sw.	0.180	4.6	½ cloudy	Satoo & Tomikawa.
Nobiru	29.97	761.4	29.99	761 8	32.0	0.0	83	nnw.	4.1	1.8			10 ks			0.065	1.6	covered	Yoshino & Midzushina.
Numadzu	29.91	759.7	29.95	760 7	37.8	3.2	77	e.			2	0	0			0	0	clear	T.Ohgi.
Osaka	30.07	763.8	30.09	764.2	35.3	1.8	81	n.	10.6	4.7			10 n					light snow	H. Omura.
Sakai	30.07	763.7	30.08	763.9	34.6	1.4	75	wsw.			2	0	1 ks		w.	0.630	16.0	clear	Yamawchi & Sakamoto.
Sapporo	29.95	760.6	30.02	762.4	25.7	— 3.5	72	n.	11.0	4.9			10 n			0.007	0.2	snowing	S. Kimura.
Shimonoseki	30.04	763.1	30.19	766.8	39.0	3.9	57	w.			6	0	2 ks		nw.	0	0	clear	S. Sakano.
Wakayama	30.04	763 0	30.09	764.4	35.1	1.7	90	nw.	0.1	0.04			10 n			0.089	2.3	snowing	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.82	757.4	30.00	762.0	81.4	27.4	68	e.	13.5	6.0		0	6 kn		ese.	0.09	2.3	fair	The Staff.
MEXICAN.																			
Leon	24.42	620.3	30.16	766.1	54.1	12.3	72	se.	1.8	0.8		8 c	0			0	0	cloudy	M. Leal & M. Pina
Mazatlan	29.81	757.2	30.08	763.9	63.0	17.2	91	e.	1.8	0.8		0	0			0	0	light fog	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.63	752.6	29.63	752 6	46.6	8.1		ssw.			4					0.394	10.0		
Groningen	29.56	750.9	29.61	752.1	44.4	6.9		w.			1					0.083	2.1		
Helder	29.56	750.8	29.56	750.8	44.6	7.0		sw.			4					0.130	3.3		
Hellevoetsluis	29.61	752.0	29.61	752.0	52.0	11.1	85	wsw.			3					0.098	2.5		
Utrecht	29.58	751.4	29.64	752.8	47.7	8.7	80	wsw.			2		7			0.055	1.4	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.93	760.2			78.8	26.0	84	nnw.	0.5	0.2			3			1.260	32.0		Lt.J.J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.36	745.7	29.42	747 3	44.6	7.0	52	calm	0	0			10			0.197	5.0		
Brono	29.55	750.5	29.59	751.5	33.6	0.9	66	e.			4		1			0	0		
Christiania	29.43	747.6	29.59	751.5	29.3	— 1.5	100	nne.	20	9			10			0.169	4.3	snowing	
Gjæsvær	29.72	755.0	29.75	755.6	31.3	— 0.4		sw.			2		10			0.079	2.0		
Lodingen	29.66	753.3	29.71	754.5	24.4	— 4.2	57	e.			4		0			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.17	766.3	30.26	768.6	60.8	16.0	72	sw.	4.9	2.2			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	757.8	30.18	766.6	50.5	10.3	55	n.	15.4	6.9			7			0.264	6.7		The Staff.
Ponta Delgada, Azores	30.23	767.9	30.30	769.7	56.1	13.4	62	e.	6.3	2.8			4			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	29.98	761.4	30.01	762.3	68.0	20.0	72	ne.			4		3			0	0		
San Salvador, Congo	28.04	712 3	29.86	758.4	82.0	27.8	64	nw.			1		6			0	0		
Serra da Estrella	25.20	640.0	30.13	765.3	28.9	— 1.7	100	nw.	13.0	5.8			9			0.276	7.0	foggy	
RUSSIAN.																			
Akmolinski	28.74	730 0	29.88	759.0	21.0	— 6.1	85	s.	22	10			10 n			0.031	0.8		Major K. Lasarew.
Archangel	30.04	763 0	30.06	763.5	— 6.9	—21.6	80	ese.	4	2		2 cs	0			0	0		Capt. Sselliwerstow
Ashuruda	30.11	764.7	30.01	762.3	49.5	9.7	79	w.	4	2			9 kn			0.075	1.9		
Astrakhan	30.12	765 0	30.04	763.0	23.4	— 4.8	55	w.	25	11		0	2 ks						Capt. Wisganow.
Baku	30.11	764.9	30.07	763 7	43.0	6.1	63	n.	4	2		0	7 ks			0	0		
Barnaul	29.86	758 4	30.41	772.4	9.7	—12.4	83	ne.	9	4			3			0	0		Meteorological Office.
Bielosersk	29.67	753.5	30.19	766.7	4.5	—15.3	69	calm	0	0			10 s					snowing	
Dorpat	29.87	758 7	30.14	765.5	15.4	— 9.2	60	se.	9	4		10 c	0			0	0	light clouds	Observatory.
Ekaterinburg	28.53	724.6	29.58	751.3	— 0.2	—17.9	87	ese.	4	2			10			0.051	1.3	snowing	Meteorological Obs'y.
Elissawetgrad	29.78	756.4	30.25	768.4	29.1	— 1.6	66	calm	0	0			10 kn			inap.	inap.		
Kasan	29.33	745.0	29.63	752 5	4.5	—15.3	86	nnw.	20	9			10			0	0		Observatory.
Kem	30.06	763.5	30.11	764.8	4.5	—15.3	95	calm	0	0			10 n			0	0		
Kertch	30.17	766.3	30.19	766.9	30.2	— 1.0		calm	0	0			10 n			0	0		Lagorio & Sastyrea.
Kieff	29.52	749.8	30.20	767.0	27.1	— 2.7	81	e.	4	2			10 n					snowing	Observatory.
Koslov	29.54	750.3	30.10	764.6	— 2.2	—19.0	69	nnw.	13	6			0			0	0		
Lgov	29.69	754.2	30.35	770.8	5.7	—14.6	65	n.	9	4			10			inap.	inap.		R.I.Ssaweljew, Engin'r.
Libau	29.87	758 8	29.90	759 4	35.4	1.9	73	se.	11	5			10			0	0		[illegible]
Lugan	29.93	760.2	30.15	765.9	13.6	—10.2	60	nw.	18	8			0			0	0		Meteorological Obs'y
Moscow	29.69	754.2	30.24	768.0	0.3	—17.6	65	nw.	4	2		0	0			0.004	0.1		Meteorological Obs'y
Nertschinsk	28.15	715.0	30.73	780 6	— 1.3	—18.5	81	calm	0	0			0			0	0		
Nikolaiev	30.16	766.0	30.23	767.8	31.3	— 0.4	63	ne.	4	2			10 n			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor.	30.09	764.3	30.18	766.5	— 1.1	—18.4	67	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.42	772.7	30.56	776.3	30.2	— 1.0	33	nw.	5.6	2.5	.....	0	0	.....	.....	.....	.....	.....	**Siang.**
Petro-Alexandrovsk	29.56	750.8	29.91	759.7	54.0	12.2	59	se.	1.1	0.5	.....	.....	10	.....	.....	.....	.....	.....	**Walter.**
Petrozavodsk	29.90	759.4	30.11	764.8	11.8	—11.2	68	calm	0	0	.....	.....	10	.....	.....	0.004	0.1	.....	Dr. Bergmann.
Pinsk	29.63	752.5	30.15	765.8	29.5	— 1.4	82	se.	13	6	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.06	763.4	30.09	764.2	40.3	4.6	89	e.	4	2	.....	.....	6 s	.....	.....	0	0	.....	
St. Petersburg	30.17	766.3	30.19	766.9	9.3	—12.6	49	sw.	7	3	.....	6 cs	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.51	698.8	29.95	760.6	60.6	15.9	54	calm	0	0	.....	7 ck	0	.....	.....	.....	.....	.....	**Dresch.**
Semipalatinsk	29.62	752.3	30.34	770.7	9.9	—12.3	85	calm	0	0	.....	.....	6	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.95	760.6	30.17	766.3	33.6	0.9	61	ne.	16	7	.....	.....	10 n	.....	.....	0	0	.....	
Staroi Bykhov	29.65	753.0	30.24	768.1	22.3	— 5.4	54	ese.	7	3	.....	4 c	0	.....	.....	0.004	0.1	light clouds	**Carl Hagen.**
Tashkend, Laboratory	28.35	720.1	30.04	763.0	50.5	10.3	85	calm	0	0	.....	.....	10 s;d	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	28.60	726.5	30.06	763.6	41.0	5.0	49	n	7	3	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.47	697.8	30.08	764.0	31.6	— 0.2	62	calm	0	0	.....	0	5 k	.....	.....	.....	.....	.....	**Sarlono.**
Viatka	29.15	740.3	29.84	757.9	2.8	—16.2	61	n.	13	6	.....	.....	9	.....	.....	0	0	.....	
Vladivostock	30.21	767.4	30.28	769.1	12.4	—10.9	85	nne.	13	6	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.49	749.1	29.92	760.0	43.0	6.1	74	sse.	20	9	.....	0	8 ks	.....	.....	.....	.....	.....	Astronomical Obs'y.
Yeniseisk	30.30	769.6	30.63	777.9	— 3.3	—19.6	67	w.	2	1	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.59	751.6	30.10	764.5	— 0.7	—18.2	49	wnw.	11.8	5.3	.....	0	0	.....	.....	0	0	clear	**Bachmetieff.**
Spanish.																			
Barcelona, Met. Obs'y	29.81	757.1	29.92	759.9	58.1	14.5	89	sw.	.....	.....	.....	0	1	.....	.....	0	0	almost clear	**B.J.Elin.**
Bilbao, Met. Obs'y	29.98	761.5	30.04	763.1	53.6	12.0	68	nw.	6.3	2.8	.....	.....	10	.....	.....	0.004	0.1	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.00	685.9	30.04	762.0	42.8	6.0	85	sw.	15.4	6.9	.....	0	8	.....	.....	0.394	10.0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.76	705.0	30.02	762.4	49.5	9.7	66	sw.	15.7	7.0	.....	.....	9	.....	.....	0.075	1.9	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.85	758.1	30.00	761.9	66.0	18.9	62	wnw.	2.0	0.9	.....	3	4	se.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.16	740.6	30.07	763.8	47.8	8.8	78	nw.	6.3	2.8	.....	.....	7	.....	.....	1.268	32.2	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.02	762.6	30.09	764.3	70.6	21.4	88	e.	0.4	0.2	.....	2 ck	2 k;s	w.	nw.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	30.04	763.0	30.10	764.4	76.6	24.8	78	se.	3.3	1.5	.....	0	1 ks	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.06	763.5	30.16	766.1	50.4	10.2	95	n.	4.0	1.8	.....	.....	10	.....	nw.	0.348	8.8	raining	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.02	762.6	30.11	764.9	74.5	23.6	72	sse.	4.5	2.0	.....	1 c	2 k	.....	sse.	0.276	7.0	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.89	759.2	29.93	760.2	19.4	— 7.0	94	s.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	
Umea	29.76	755.8	29.81	757.1	29.5	— 1.4	92	sw.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Hernosand	29.76	755.8	29.81	757.1	29.8	— 1.2	80	ssw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockhelm	29.66	753.4	29.84	757.9	31.6	— 0.2	96	ese.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Wisby	29.72	754.8	29.78	756.3	36.3	2.4	85	sw.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.71	754.5	29.79	756.7	31.6	— 0.2	86	se.	9.2	4.1	.....	.....	10	.....	sse.	0.236	6.0	snowing	H.H.Hildebrandesson
Swiss.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.11	764.9	47.1	8.4	51	ene.	25	11.0	.....	.....	3	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.13	765.2	57.9	14.4	.....	nw.	.....	.....	2	.....	2	.....	.....	0	0	¼covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.87	758.6	52.7	11.5	88	sw.	.....	.....	2	.....	10 n	.....	sw.	0.306	7.8	.....	F. Nimr, B. A., Dir.
United States.																			
Albany, New York	29.60	751.8	29.69	754.1	42.2	5.7	79	sw.	1	0.4	.....	.....	10 n	.....	.....	0.06	1.5	light rain	J. O. Barnes.
Alpena, Michigan	29.35	745.5	30.00	763.5	1.2	—17.1	72	w.	8	3.6	.....	0	0	.....	.....	0.06	1.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.21	640.3	30.31	769.9	28.1	— 2.2	77	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.04	686.8	30.08	764.0	34.0	1.1	82	sw.	20	8.9	.....	0	0	.....	.....	0.02	0.5	clear	F. Newman.
Atlanta, Georgia	28.87	733.3	30.09	764.3	33.6	0.8	54	nw.	24	10.7	.....	1 k	0	n.	.....	0.21	5.3	clear	S. W. Beall.
Atlantic City, New Jersey	29.52	749.8	29.52	749.8	48.0	8.9	93	se.	8	3.6	.....	.....	10 n	.....	.....	0.02	0.5	heavy rain	B.A.Blundon.
Augusta, Georgia	29.72	754.9	29.92	760.0	48.5	9.2	60	w.	15	6.7	.....	0	0	.....	.....	0.04	1.0	clear	W.J.Evans.
Baltimore, Maryland	29.60	751.8	29.65	753.1	47.3	8.5	89	n.	6	2.7	.....	.....	10 n	.....	ne.	1.20	30.5	light rain	Geo. W Feiger.
Barnegat City, New Jersey	29.53	750.0	29.55	750.6	50.0	10.0	86	sw	7	3.1	.....	.....	10n;fg	.....	sw.	0.03	0.8	thnd'r str'm	F.L.Johnson.
Bennett, Fort, Dakota	28.26	717.8	30.00	762.0	19.5	— 6.9	84	se.	2	0.9	.....	2 c	3 s	.....	se.	inap.	inap.	fair	A. Pritchard.
Benton, Fort, Montana	27.19	690.6	30.19	766.8	39.5	4.2	92	sw.	21	9.4	.....	0	3 s	.....	w	0	0	clear	Thomas Morgan.
Bismarck, Dakota	27.96	710.2	29.94	760.5	12.0	—11.1	83	se.	16	7.2	.....	.....	10 n	.....	nw.	0.06	1.5	light snow.	B. O. Lenoir.
Block Island, Rhode Island	29.64	752.8	29.67	753.6	48.0	8.9	100	sw.	20	8.9	.....	.....	10 n;fg	.....	sw.	0.06	1.5	light rain	J. T. Elker.
Boise City, Idaho	27.51	698.7	30.47	773.9	40.3	4.6	78	s.	2	0.9	.....	0	7 s	.....	w.	0	0	fair	James Kenealy.
Boston, Massachusetts	29.56	750.8	29.72	754.9	40.0	4.4	100	nw.	5	2.2	.....	.....	10n;fg	.....	.....	inap.	inap.	light rain	O. B. Cole.
Brownsville, Texas	30.25	768.3	30.31	769.9	56.0	13.3	74	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	John McGlone.
Buffalo, New York	29.15	740.4	29.94	760.5	18.1	— 7.7	84	n.	12	5.4	.....	.....	10 s	.....	nw.	0.17	4.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.66	702.6	29.87	758.7	18	— 7.8	94	ne.	6	2.7	.....	.....	10 n	.....	.....	0.02	0.5	light snow	A. Schneider.
Cairo, Illinois	29.90	759.4	30.32	770.1	29.0	— 1.8	61	n.	10	4.5	.....	0	0	.....	.....	0.03	0.8	clear	W. H. Ray.
Canby, Fort, Washington Ter	30.04	763.0	30.24	768.1	42.6	5.9	100	s.	20	8.9	.....	.....	10 n	.....	.....	0.70	17.8	heavy rain	J.H.Young.
Cape Henry, Virginia	29.56	750.8	29.58	751.3	57.0	13.9	93	s.	17	7.6	.....	.....	10 ks	.....	sw.	0.07	1.8	cloudy	A. K. Alderson.
Cape May, New Jersey	29.55	750.6	29.58	751.3	44.5	6.9	87	n.	21	9.4	.....	.....	10 n	.....	.....	0.21	5.3	light rain	W.E.Smith.
Cape Mendocino, California	29.65	753.1	30.35	770.9	51.5	10.8	68	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.00	763.5	30.08	764.0	59.0	15.0	78	nw.	12	5.4	.....	1 cs	2 k	sw.	nw.	0.12	3.0	clear	G. W. Davis.
Charleston, S. Carolina	29.70	754.4	29.76	755.9	59.0	15.0	81	w.	24	10.7	.....	4 ck	5 s	.....	w.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.87	733.3	29.76	755.9	42.7	5.9	96	n.	20	8.9	.....	.....	10 n	.....	n.	0.60	15.2	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.35	745.5	30.21	767.3	28.5	— 1.9	60	nw.	15	6.7	.....	1 cs	0	.....	.....	0.06	1.5	clear	B. L. Goulding.
Cheyenne, Wyoming	23.92	607.6	30.19	766.8	36.2	2.3	39	nw.	28	12.5	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.42	747.3	30.17	765.3	10.7	—11.8	67	w.	8	3.6	.....	0	0	.....	.....	0.02	0.5	clear	Wm. Norrington.
Chincoteague, Virginia	29.56	750.8	29.58	751.3	48.0	3.9	100	s.	7	3.1	.....	.....	10n;fg	.....	s.	0.26	6.6	light rain	C. F. Dickens
Cincinnati, Ohio	29.49	749.0	30.18	766.6	20.8	— 6.2	76	nw.	9	4.0	.....	0	0	.....	.....	0.16	4.1	clear	L.Dunne.
Cleveland, Ohio	29.24	742.7	30.03	762.7	22.0	— 5.6	94	nw.	17	7.6	.....	.....	10 n	.....	nw.	0.12	3.0	light snow	W.Line.
Columbus, Ohio	29.19	741.4	30.09	764.3	20.2	— 6.6	74	w.	16	7.2	.....	0	1 ks	.....	w.	0.16	4.1	clear	F.T. Williams
Concho, Fort, Texas	28.41	721.6	30.43	772.9	29.0	— 1.7	88	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. E. King.
Custer, Fort, Montana	26.69	677.9	30.05	763.3	38	3.3	64	nw.	36	16.1	.....	0	2 s	.....	.....	0	0	clear	W.J.Daily.
Davenport, Iowa	29.50	749.3	30.20	767.1	16	— 8.9	64	nw.	5	2.2	.....	7 k	hz.	w.	.....	0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.42	645.7	30.38	771.6	36.2	2.3	74	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.55	725.2	30.37	771.4	44	6.7	68	sw.	8	3.6	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	H.S.Blandford.
Deadwood, Dakota	25.20	640.1	30.12	765.0	37.2	2.9	72	w.	7	3.1	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	G.Kingsbury.
Delaware Breakwater, Del.	29.56	750.8	29.58	751.3	50.3	10.2	100	s.	16	7.2	.....	.....	10n;fg	.....	s.	1.00	25.4	heavy rain	G.A.Martin.
Denver, Colorado	24.73	628.1	30.25	768.3	45.0	7.6	36	w.	20	8.9	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.14	765.5	17	— 8.3	67	se.	7	3.1	.....	.....	10 s	.....	se.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.09	764.3	22.2	— 5.4	73	w.	7	3.1	.....	.....	10 n	.....	.....	0.08	2.0	light snow	N.B.Conger.
Dodge City, Kansas	27.38	695.4	30.12	765.0	30	— 1.1	74	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	J.E.Lanouette.
Dubuque, Iowa	29.44	747.8	30.20	767.1	1.8	—16.8	54	w.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	J. Harvey Smith
Duluth, Minnesota	29.36	745.7	30.17	766.3	— 5.0	—20.6	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	E.R.Bruce.
Eastport, Maine	29.84	757.9	29.91	759.7	37.0	2.2	94	s.	14	6.3	.....	.....	10 n	.....	s.	0.01	0.3	light rain	D. C. Murphy.
Elliott, Fort, Texas	27.32	693.9	30.22	767.6	31.2	— 0.4	73	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.47	672.3	30.35	770.9	39.1	3.9	51	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.20	741.7	29.97	761.2	21.0	— 6.1	84	n.	15	6.7	.....	.....	10 s	.....	n.	0.15	3.8	cloudy	C. A. Shaw.
Escanaba, Michigan	29.41	747.0	30.13	765.3	— 4.7	—20.4	70	w.	6	2.7	.....	0	0	.....	.....	0.05	1.3	clear	L.M.Pindell.
Fort Smith, Arkansas	29.80	756.9	30.30	769.6	30.5	— 0.8	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Galveston, Texas	30.30	769.6	30.34	770.6	52.8	11.6	48	n.	16	7.2	.....	0	0	.....	.....	0.08	2.0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.35	745.5	30.06	763.5	18.7	— 7.4	82	nw.	12	5.4	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.39	644.9	30.25	768.3	44.8	7.1	36	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	Chas. A. Read.
Hatteras North Carolina	29.70	754.4	29.71	754.6	59.2	15.1	100	sw.	26	11.6	.....	.....	10 n	.....	sw.	1.10	27.9	thund'r st'm	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.87	657.1	30.22	767.6	40	4.4	73	w	26	11.6	.....	0	0	.....	.....	0.07	1.8	clear	S. W. Morrison.
Huron, Dakota	28.52	724.4	30.04	763.0	16.6	— 8.6	76	se.	8	3.6	.....	7 cs	0	.....	.....	inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	29.34	745.2	30.19	766.8	15.0	— 9.4	74	nw.	11	4.9	.....	0	1 k	.....	nw.	0.01	0.3	clear	C. F. R. Wappenhans.
Indianola, Texas	30.31	769.9	30.34	770.6	54.0	12.2	61	nw.	18	8.0	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	29.93	760.2	29.98	761.5	61.5	16.4	76	sw.	16	7.2	.....	10 s	.....	.....	sw.	0.41	10.4	cloudy	J. W. Smith.
Keokuk, Iowa	29.51	749.5	30.21	767.3	18.0	— 7.8	72	ne.	1	0.4	.....	10 s	.....	.....	ne.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	72	22.2	84	sw.	9	4.0	.....	0	9k;s	.....	sw.	0.60	15.2	cloudy	A. W. Browne.
Kittyhawk, North Carolina	29.64	752.8	29.66	753.4	57.0	13.9	100	sw.	28	12.5	.....	.....	10 n	.....	.....	0 42	10.7	heavy rain	Wesley Blake.
Knoxville, Tennessee	29.08	738.6	30.16	766.1	31.2	— 0.4	62	nw.	6	2.7	.....	0	4 s	.....	nw.	0.11	2.8	fair	J. A. Cody.
La Crosse, Wisconsin	29.32	744.7	30.16	766.1	— 2	—18.9	68	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.16	740.7	30.11	764.8	31.6	1.4	59	s.	6	2.7	.....	7 ck	0	w.	.....	0	0	fair	T. S. Outram.
Lewiston, Idaho	29.49	749.0	30.36	771.1	39.0	3.9	82	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.97	761.2	30.30	769.6	35.0	1.7	79	calm	0	0	.....	0	0	.....	.....	0.28	7.1	clear	W. U. Simons.
Los Angeles, California	29.77	756.1	30.17	766.3	57.0	13.9	40	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.60	751.8	30.19	766.8	23.5	— 4.7	47	w.	12	5.4	.....	0	0	.....	.....	0.22	5.6	clear	L. M Dey.
Lynchburg, Virginia	28.95	735.3	29.67	753.6	46.0	7.8	80	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.78	19.8	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.40	746.7	30.11	764.8	— 5.0	—20.6	83	w.	10	4.5	.....	0	0	.....	.....	0.35	8.9	clear	D. B. Notson.
Macon, Fort, North Carolina	29.70	754.4	29.71	754.6	57.7	14.3	100	sw.	33	14.8	.....	.....	10 n	.....	sw.	0.46	11.7	thund'r st'm	William Daly.
Maginnis, Fort, Montana	25.37	644.4	30.12	765.0	33.5	0.8	54	se.	29	13.0	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.35	745.5	30.13	765.3	— 6.7	—21.5	50	w.	8	3.6	.....	0	0	.....	.....	inap	inap.	clear	J. Gilligan.
Memphis, Tennessee	29.94	760.5	30.29	769.4	35.5	1.9	71	nw.	10	4.5	.....	0	0	.....	.....	0.50	12.7	clear	D. T. Flannery
Milwaukee, Wisconsin	29.36	745.7	30.16	766.1	3.7	—15.7	72	nw.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	S. W. Rhode.
Mobile, Alabama	30.21	767.3	30 25	768.3	42	5.6	36	n.	19	8.5	.....	0	0	.....	.....	0.37	9.4	clear	H. U. Jones.
Montgomery, Alabama	30.00	762.0	30.24	768.1	37	2.8	51	nw.	13	5.8	.....	0	0	.....	.....	0.12	3.0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.99	736.3	30.09	764.3	— 6.4	—21.3	75	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.37	593.6	29.99	761 7	25.0	— 3.9	98	sw.	50	22.4	.....	.....	fg.	.....	sw.	0.06	1.5	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.05	753.1	30.26	768.6	28.8	— 1.8	57	nw.	10	4.5	.....	0	0	.....	.....	0.52	13.2	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.54	750.3	29.66	753.4	41	5.0	100	ne.	4	1.8	.....	.....	10n;fg	.....	.....	0.23	5.8	light rain	J. H. Sherman.
New London, Connecticut.	29.65	753.1	29.70	754.4	44.0	6.7	100	sw.	13	5 8	.....	.....	10 n	.....	sw.	0.14	3.6	light rain	J. G. Lynch.
New Orleans, Louisiana	30.22	767.6	30.28	769.1	47.3	8.5	57	n.	13	5.8	.....	0	0	.....	.....	0.72	18.3	clear	M. Herman.
New York, New York	29.47	748.5	29.66	753.4	42.1	5.6	100	n.	4	1.8	.....	.....	10n;fg	.....	.....	0.11	2.8	light rain	H. J. Peurod.
Norfolk, Virginia	29.60	751.8	29.63	752.6	57.0	13.9	98	sw.	11	4.9	.....	.....	10 n	.....	.....	0.08	2.0	light rain	Wm. Davis.
North Platte, Nebraska	26 92	683.8	30.02	762.5	40.2	4.6	61	w	18	8.0	.....	.....	10 s	.....	.....	0	0	cloudy	J. J. Mc Lean.
Olympia, Washington Ty	30.24	768.1	30.28	769.1	44.0	6.7	93	calm	0	0	.....	.....	10 s	.....	.....	0.26	6.6	cloudy	J. Dascomb
Omaha, Nebraska	28.77	730.7	30.04	763.0	26.8	— 2.9	75	se.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak
Oswego, New York	29.50	749.3	29.85	758.2	29.0	— 1.7	67	n.	14	6.3	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.81	757.2	30.39	771.9	42.2	5.7	58	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.16	766.1	30.19	766.8	46.6	8.1	63	nw.	10	4.5	.....	0	1 s	.....	.....	0.44	11.2	clear	M. McGauran.
Philadelphia, Pa	29.54	750.3	29.64	752.8	47.3	8.5	100	nw.	4	1.8	.....	.....	fg;10n	.....	nw.	0.61	15.5	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.58	446.5	30.30	769.6	5.0	—15.0	83	nw.	64	28.6	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.08	738.6	29.94	760.5	30.2	— 1.0	78	nw.	7	3 1	.....	.....	10 n	.....	nw.	0.04	1.0	light snow	O. D. Stewart.
Poplar River, Montana	.....	.....	.....	.....	12.3	—10.9	74	w	.....	.....	1	0	5 s	.....	.....	0	0	fair	G. A. Carden.
Port Huron, Michigan	29.28	743.7	30.01	762.2	14.7	— 9.6	83	nw.	9	4.0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	M. H. Perry
Portland, Maine	29.71	754.6	29.76	755.9	39.0	3.9	89	calm	0	0	.....	.....	fg.	.....	.....	0.00	1.5	dense fog	W. W. Eichelberger.
Portland, Oregon	30.24	768.1	30.31	769.9	45.0	7.2	100	sw.	2	0.9	.....	.....	10 n	.....	.....	0.20	5.1	light rain	M. L. Hearn.
Prescott, Arizona	24.97	634.2	30.33	770.4	29.0	— 1.7	80	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass	29.72	754.9	29.74	755.4	41.1	5.1	100	se.	11	4.9	.....	.....	10s;fg	.....	.....	0	0	cloudy	C. N. Kitchel.
Red Bluff, California	29.99	761.7	30.36	771.1	45	7.2	80	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.20	767.1	30.45	773.4	52.0	11.1	50	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y	29.21	741.9	29.92	760.0	22	— 5.6	73	nw.	13	5.8	.....	10 k	0	nw.	.....	0.01	0.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.84	757.9	30.41	772.4	45.7	7.6	86	s.	1	0.4	.....	0	8 s	.....	sw.	inap.	inap.	cloudy	J. J. Naury.
Sacramento, California	30.26	768.6	30.33	770.4	43.5	6.4	95	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.63	752.6	30.29	769.4	26.1	— 3.3	78	w	4	1.8	.....	6cs;k	3ks; sk	w.	w.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.18	741.2	29.21	741.9	—19	—28.3	100	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.22	742.2	30.16	766.1	— 9.0	—22.8	95	calm	0	0	.....	4 cs	0	sw.	.....	0	0	fair	P. F Lyons.
St. Vincent, Minnesota	29.11	739.4	30.08	764.0	—12	—24.4	76	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.92	658.4	30.48	774.2	38.7	3.7	61	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Craig.
San Diego, California	30.05	763.3	30.12	765.0	52.7	11.5	54	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.33	745.0	30.05	763.3	20	— 6.7	70	nw'	23	10.3	.....	.....	10 n	.....	nw.	0.11	2.8	light snow	B. F. Hough.
Sandy Hook, New Jersey	29.00	751.8	29.64	752 8	42.5	5.8	99	se.	2	0.9	.....	.....	10 n	.....	nw.	0.39	9.9	light rain	V. P. Chappel.
Sanford, Florida	29.95	760.7	30.00	762.0	63.0	17.2	84	nw.	5	2.2	.....	0	8 k	.....	nw.	0.09	2.3	cloudy	J. B. Marbury
San Francisco, California	30.23	767.8	30.30	769.6	52.0	11.1	85	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	29.78	756.4	29.87	758.7	57.2	14.0	60	w.	22	9 8	.....	0	5ks;s	.....	w.	0.03	0.8	fair	R. M. Geddings.
Shaw, Fort, Montana	26.33	668.8	30.18	766.6	40	4.4	59	sw.	30	13.4	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	30.13	765.3	30.32	770.1	40.8	4.9	47	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.46	748.3	29.53	750 0	39.4	4.1	88	se	4	1.8	.....	.....	10 n	.....	se.	0.50	12.7	light rain	F. W. Fickett.
Smithville North Carolina	29.65	753.1	29.69	754.1	58.0	14.4	90	sw.	18	8.0	.....	.....	10 n	.....	sw.	0.48	12.2	thund'r st'm	O. Parker.
Spokane Falls, Wash. Ter.	28.20	716.3	30.33	770.4	36.0	2.2	87	sw.	1	0.4	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	D. Moore.
Springfield, Illinois	29.53	750.0	30.26	768.6	22.5	— 5.3	74	w.	5	2.2	.....	0	4 s	.....	w.	0	0	fair	T. B. Jennings.
Stockton, Fort, Texas	27.22	691.4	30.35	770.9	40.5	4.7	47	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.11	764.8	.....	.....	46.0	7.8	96	sw.	7	3.1	.....	.....	10 n	.....	.....	0.97	24.6	light rain	R. Connor.
Thomas, Camp, Arizona	27.48	698.0	30.31	769.9	32	0.0	71	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.32	744.7	30.06	763.5	22	— 5 6	75	w.	5	2.2	.....	.....	10 n	.....	w	0.02	0.5	light snow	A. Buell.
Unalashka, Alaska	28.86	733.0	28.88	733.5	31	— 0.6	88	n.	10	4.5	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	Samuel Applegate.
Vicksburg, Mississippi	30.06	763.5	30.33	770.4	40	4.4	65	n.	7	3.1	.....	0	0	.....	.....	0.18	4.6	clear	C. Dill.
Washington, D. C.	29.53	750.0	29.65	753.1	45.5	7.5	93	nw.	7	3.1	.....	.....	10 n	.....	w.	1.09	27.7	light rain	T. B. Harrison.
West Las Animas, Colorado	26.03	661.2	30.15	765 8	26	— 3.3	72	sw.	4	1.8	.....	0	2 s	.....	w.	0	0	clear	F. H. Brandenburg
Wilmington, N Carolina	29.60	751.8	29.66	753.4	58.5	14.7	90	sw.	13	5.8	.....	.....	10 s	.....	sw.	0.41	10.4	cloudy	L. H. Albrecht.
Yankton, Dakota	28.62	726.9	30.04	763.0	16.6	— 8.6	67	e.	8	3.6	.....	4 c	0	e.	.....	0	0	fair	E. H. Thompson.
Yuma, Arizona	30.00	762.0	30.15	765.8	62.5	16.9	39	n.	15	6 7	.....	0	0	.....	.....	0	0	clear	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka.	29.55	750.6	29.57	751.1	23.4	— 4.8	85	ne.	6	2.7	.....	0	5 n	.....	.....	inap.	inap.	fair	George Cherwick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	72	22.2	.....	nw.	.....	.....	1	0	3 k	.....	n.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	22.02	559.2	.....	.....	53.0	12.0	81	calm	0	0	.....	1 cs	0	w.	.....	0	0	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.43	747.5	29.58	751.3	11	—11.7	100	s.	26	11.6	.....	10 c	0	s.	.....	0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.11	764.8	65.5	18.6	90	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	77	25.0	91	se.	.....	.....	2	.....	10 n	e.	e.	2.210	56.1	raining	Dr C. J. Hering.
Puerto Berrio, U. S. C.	29.40	746.7	29.96	761.0	77	25.0	89	calm	.....	.....	0	6 ck	1 ks	calm	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	88	ne.	.....	.....	3	0	0	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	29.88	758.9	29.95	760.7	—33.0	—36.1	.....	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	29.93	760.2	29.94	760.4	79.2	26.2	81	n.	10.5	4.7	.....	0	6 k	.....	n.	0	0	fair	P. Fasiani.
Naós, Bay of Panama	29.94	760.5	30.01	762.2	71.2	21.8	87	nw.	.....	.....	4	0	1 ks	.....	n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 42° 48′, W. 47° 24′			38	3.3		nw.			6		6		nw.	2 h'r	2 h'r	mod.	nw.	fair.
S. S. Alvo, Port au Prince, Hayti, W.I*	30.18	766.6	70	21.1		ene.			2–3		4		calm	o	o			fine.
S. S. Alleghany, N. 38° 46′, W. 74° 30′ †	29.62	752.3	48	8.9		ssw.			3		10		n.	6 h'r	6 h'r	long	ne.	squally.
S. S. Allsa, Port Limon, Costa Rica, C.A			70.5	21.4	90	n.			1		0			o	o	sm'h		clear.
S. S. America, N. 40° —′, W 69° —′*	29.69	754.1	45	7.2	84	ssw.			6		10			rain	rain	sm'h	sw.	overcast.
S. S. Arizona, N. 42° 08′, W. 57° 30′	30.45	773 4	45	7.2		se.			3		3		se.	o	o	sm'h		fair.
Schr. Arthur Burton, Fernandina, Fla †	29.99	761.7				w.			4		1		w.	2 h'r	2 h'r	r'gh	w.	clear.
S. S. Alps, N. 23° 52′, W. 74° 07′ *†	30.15	765.8	79	26.1		e.			3		2		e.	o	o	sm'h		clear.
S. S. Adriatic, N. 41° 41′, W. 64° 21′ †	30.06	763.5				se.			5		8		se.			sm'h	s.	overcast.
Schr. Annie R. Lewis, Delaware Breakwater, Del†	29.54	750.3				ssw.			3		10			1 h'r	1 h'r			heavy rain
S. S. British Crown, N. 40° 14′, W. 61° 14′†	30.26	768.6	49	9.4		s.			4		3		s.	o	o	mod	s.	clear.
S. S. Circassian, N. 43° 50′, W. 46° 05′			32	0.0	100	nw.			6		9		nw.			3	wnw.	overcast.
S. S. Canada, (Br.) N. 41° 23′, W. 56° 07′†	30.42	772.7	47	8.3	92	se.			4		2			o	o	mod.	se.	clear.
S. S. Canada, (Fr) N. 42° 09′, W. 55° 28′			39.2	4		ese.			2		k		ese.	o	o	sm'h	ese.	clear.
S. S. Chalmette, Mississippi River			45	7.2		s.			3		3		s.	3 h'r	3 h'r	sm'h		clear.
S. E. J. Spicer, N. 37° 24′, W. 64° 02′	30.27	768.8	60	15.6	94	sse.			5		3		s.	o	o	sm'h		clear.
S. S. France, N. 44° 19′, W. 46° 29′ *†	30.24	768.0				nw.			6		8?		nw.	o	o	large	nw.	clear.?
S. S. Grecian, N. 43° 07′, W. 63° 06′	30.22	767.6	45	7.2	84	se.			4		7		se.	o	o	sm'h		hazy.
Bg. George, N. 39° 10′. W 70° 50′ *†	29.60	751.8				ssw.			4		10		sw.	h'vy	h'vy	sharp	ssw.	rainy.
S. S. Hohenstaufen, N. 43° 42′, W. 47° 05′	30.28	769.1	33	0.6	89	wnw.			5		8		wnw.	5 h'r	5 h'r	mod.	wnw.	overcast.
S. S. Helvetia, N. 41° 33′, W. 57° 44′			46	7.8	100	ese.			3		2			o	o	sm'h	se.	fair.
Bk. Idaho, N. 22° 50′, W. 84° 40′ *†	30.09	764.3				nnw.			1		0			1 h'r	1 h'r	sm'h		clear.
S. S. Iowa, N. 42° 19′, W. 53° 37′ †	30.42	772.7	37	2.8		e.			1		5		e.	o	o	sm'h	n.	fair.
Schr. Jennie N. Huddell, N. 33° 45′, W. 77° 48′ †	29.71	754.6	59	15.0		sw.			5		10		sw.	3 h'r	3 h'r	h'vy	s.	threatening.
Bg. L. & W. Armstrong, N. 36° 47′, W. 68° 30′ †	30.02	762.5				ssw.			6		6		ssw.	½ h'r	½ h'r	high	var.	threatening
S. S. Lessing, N. 48° 33′, W. 20° 49′	30.03	762.7	49	9.4		nw.			5		4		wnw.	2 h'r	2 h'r	r'gh	w.	clear.
S. S. Mentmore, N. 43° 54′, W. 46° 48′*†	30.20	767.1				nw.			6		10			4 h'r	4 h'r	mod.	nw.	cloudy.
S. S. Neckar, N. 47° 12′, W. 31° 19′	30.01	762.2	50.0	10.0	89	sw.			3–6		3		sw.	o	o	sm'h	sw.	clear.
S. S. Orinoco, N. 35° 40′, W. 67° 10′ †	30.14	765.5	60	15.6		ssw.			5		9		ssw.	c	o	light	w.	cloudy.
S. S. Oregon, (Br.) N. 51° 13′, W. 13° 02′*	29.55	750.6	48	8.9		w.			6		6		w.	4 h'r	4 h'r	h'vy	w.	squally.
S. S. Ohio, (Am) N. 45° 03′. W. 44° 30′ *†	30.11	761.8	31	— 0.6	100	nw.			4		9		nw.	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. Pennsylvania, N. 40° 33′, W. 55° 55′ †	30.35	770 9	50	10.0	72	se.			2		0			2 h'r	2 h'r	mod	ne.	clear.
S. S. Polynesian, N. 54° 46′, W. 12° 46′	29.28	743.7	49	9.4		wnw.			6		3		nw.	2 h'r	2 h'r	long	w.	squally.
S. S. P. Caland, N. 49° 32′, W, 16° 20′*	29.73	755.1	49	9.4	93	nw.			6–7		8		nw.			6	wnw.	squally.
S. S. Rhein, N. 48° 49′, W. 25° 07′	30.01	762.2				wnw.			6		10		w.	o	c	mod.	sw.	overcast.
S. S. Rhynland. N. 40° 28′. W. 73° 52′	29.61	752.1	46	7.8	92	wnw.			4		10		se.	4 h'r	4 h'r	mod.	se.	overcast.
S. S. Scandinavian, N. 54° 16′, W. 17° 17′	29.40	746 7	47	8.3		wnw.			6		3		wnw.	shr's	shr's	h'vy	wsw.	showery.
S. S. Samaria, N. 47° 3 0′, W. 35° 00′	29.89	759.2	53	11.7		s.			5		7		s.	o	o	mod	s.	fair.
S. S. Salier, N. 41° 42′, W. 66° 49′						sse.			4		6		s.	o	o	light	sse.	fair.
S. S. Valencia, Puerto Cabello, Venezuela †	30.00	762.0	80	26.7	78	w.			1		3		ene.	o	o			fair.
S. S. Pennland, N. 46° 54′, W. 36° 55′			50	10.0	100	wnw.			5		10			10 h'r	10 h'r	mod.	w.	hazy.
Schr. Adda Doane, Point Antonio, Jamaica, W. I†	30.11	764.8				s.			1		2		se.	½ h'r	½ h'r			clear.
Bg. Alcira, N. 27° 09′, W. 74° 08′			74	23.3		s.			4		2		s	o	o	cross	ne.se	clear
S. S. Cienfuegos, Cienfuegos, Cuba, W.I			69	20.6		e.			1		1		ene.	o	o			clear.
Bk. Chas. Stewart, N. 41° 03′, E. 2° 04′						ssw.			1		5		sw.	o	o	mod.	s.	fair.
Bk. Cato, N. 41° 22′, W. 11° 40†	30.24	768.1	58	14.4	88	nnw.			3		1		nnw.	light	light	long	nw.	fair.
S. S. D. J. Foley, N. 20° 08′. W. 74° 00′*†	30.06	763 5	79	26.1	95	ne.			5		0			o	o	mod.	ene.	clear.
S. S. Habsburg, N. 49° 22′. W. 18° 14′	29.88	758.9				wnw.			7		5		nw.	o	o	h'vy	nw.	fair.
S. S. New York, N. 31° 00′, W. 76° 45′ *†	29.95	760.7	70	21.1		sw.			7		10		sw.	o	o	h'vy	sw.	cloudy.
S. S. Pavonia, Mersey river, Eng	29.36	745.7	46	7.8	92	ssw.			4		10		w	o	o			cloudy.
S. S. Rialto, N. 49° 30′, W. 15° 04′			49	9.4		nw.			6		2?		nw.	2 h'r	2 h'r	mod	nw.	cloudy.?
Bk. Snga, Doboy, Ga			59	15.0		var.			2–6		3			o	o			fair.
S. S. Vaderland, N. 40° 02′, W. 71° 00′			52	11.1		s.			4		6		w.	2 h'r	2 h'r	sm'h		
S. S. Virginian, N. 49° 48′, W. 23° 30′			52	11.1		s.			4		10		wsw.	o	o	mod.	s.	overcast.
S. S. Wyoming, N. 50° 25′, W. 9° 41′	29.50	749.3	48	8.9		w.			6		6		w.	6 h'r	6 h'r	long	wnw.	squally.
S. S. Wieland, N. 41° 12′, W. 63° 07′*.	30.15	765.8	58	14.4		e.			3–4		9		s.	o	o	sm'h	s	covered.
S. S. Weser, N. 49° 47′, W. 6° 25′	29.65	753.1	50.0	10		w			6		5		w.	4 h'r	4 h'r	r'gh	w	fair.
S. S. Westphalia, N 49° 35′, W. 10° 49′			47	8.3	100	w.			4		8		w.	2 h'r	2 h'r	long	w.	cloudy.
S. S. St. Laurent, N. 49° 27′, W. 17° 30′	29.83	757.6	50.0	10.0		wnw.			6		8		wnw.			large	wnw.	squally.
U. S. Navy Yard, Portsmouth, N. H *	29.70	754.4	37	2.8	90	ne.	5	2.2			10		ne.	o	o			foggy.
U. S. S. Alliance, St. Thomas, W. I	30.08	764.6	75	23.9	77	e.			2		2		e.	o	o			fair.
U. S. S. Kearsarge, Palermo, Sicily	30.19	766.8	59	15.0	65	e.			2		2							fair.
U. S. S. Lancaster, N. 40° 29′, E. 14° 10′	30.17	766.3	55	12.8	100	ese.			3		8			o	o	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	29.72	754.9	45	7.2		se.			5		10					sm'h		foggy.
U. S. S. Portsmouth, Fortress Monroe, Va	29.62	752.3	57	13.9	94	s.			3		10		s.					rainy.
U. S. S. Powhatan, N. 38° 52′, W. 72° 20′			52	11.1	93	sw.			6		10							squally.
U. S. S. Quinnebaug, Leghorn, Italy	30.04	763.0	57	13.9	81	s.			2		8		s.			sm'h		fair.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.04	763.0	73	22.8	76	ene.			1		0			o	o	sm		clear.
U. S. S. Trenton, N. 34° 25′, E. 24° 03′	29.99	761.7	70	21.1	52	nne.			3		0					sm'h	nne.	clear.
U. S. S. Vandalia, Curacoa, W. I	30.02	762.5	78	25.6	73	e.			2		2		e.					fair.
U. S. S. Yantic, N. 35° 45′, W. 74° 54′	29.76	755.9	59	15.0	70	sw.			6		10					r'gh	s.	raining.
H. M. S. Alexandra, N. 31° 12′, E. 29° 51′	29.97	761.2	50	10.0	100	wnw.			2		9							1. clouds.
H. M. S. Alecto, N. 5° 04′, W. 1° 20′	29.87	758.7	83	28.3		ssw.			1		4		ene.			4	ssw.	d. clouds.
H. M. S. Boadicea, Cape Coast Castle, Gold Coast, Africa			82	27.8	91	wsw.			3		3		wsw.			1	wsw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.20	767.1	62	16.7	69	ese.			3		5		wsw.					d. clouds.
H. M. S. Himalaya, N. 36° 40′, W. 64° 58′			63	17.2	72	ese.			4		9		ene.			1	nnw.	d. clouds.
H. M. S. Minotaur, Terranova, Sicily	30.09	764.3	57	13.9	75	calm			0		1							blue sky.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.82	757.5	82 6	28.1	91	sse.			2		9		wnw	4 h'r	4 h'r	1	se.	d. clouds.
S. S. British Princess, N. 51° 00′, W. 13° 00′†	29.58	751.3	48	8.9		nw			7		8		nw.	8 h'r	8 h'r	high	nw.	threatening
S. S. Lord Olive, N. 44° 17′, W. 42° 39′						nw.			7		10		nw.	8 h'r	8 h'r	sl't	nw.	cloudy.
S. S. Llandaff City, N. 48° 47′, W. 16° 04′*†	29.80	756.9	50	10 0		wnw.			7		6		wnw.	hail	hail	h'vy	nw.	squally.
S. S. Scythia, N. 41° 40′, W. 55° 14′	30.46	773.7	47	8.3	77	s.			1		2		calm	o	o	sm'h		clear.
S. S. Bohemia, N. 43° 22′, W. 45° 08′						nw.			6		6		nw.	rain	rain	long	nw.	squally.
S. S. Rugia, N. 47° 16′, W. 31° 17′	30.09	764.3	60	15.6		wsw.			5–6		3		sw.	o	o	mod.	w.	fair.
S. S. Nessmore, N. 36° 59′, W. 75° 42′			53	11.7	86	s.			5		4?		sw.	5 h'r	5 h'r	mod.	se.	cloudy ?
S. S. Archimedes, (Br) off Beachy Head, Eng	29.59	751.6				wsw.			5		6		w.	6 h'r	6 h'r	light	w	light show'rs
S. S. Olbers, N. 50° 44′, W. 6° 36′	29.54	750.3	46	7.8		wsw.			6		7		sw.			5	sw.	heavy rain.
S. S. Archimede, (It) N. 35° 19′, W. 14° 21′						nw.			3		3		nw.	o	o	long	nw.	clear.
S. S. Picqua, Corunna, Spain *†	30.10	764 5	47	8.3	100	w.			7				nw.	8 h'r	8 h'r	high	nw.	cloudy.
S. S. Texas, N. 34° 54′, W. 72° 11′			56	13.3	87	nw.			4		7		sw.	o	o	sm'h		cloudy.
S. S. England, N 49° 4.′, W. 25° 32′	30.06	763.5				wsw.			4		1		w.	o	o	mod.	w.	clear.
S. S. Erin, New York, N Y†	29.66	753.4	42	5.6		n.			3		10		nnw.	3 h'r	3 h'r			raining.
S. S. Strassburg, N. 24° 39′, W. 20° 29′	30.23	767.8	69.0	20.6	68	ene.			4		3		ene.	5 h'r	5 h'r	3	wnw.	fair.
S. S. City of Augusta, Savannah, Ga						wsw.			6		6		wsw.	o	o			clear.?
S. S. Muriel, Dominica, W.I			79	26.1		ne.			2		0			o	o	sm'h		clear.
S. S. Waesland, Antwerp, Belgium	29.57	751.1	49	9.4		w.			6		10		w.	10 h'r	10 h'r			cloudy.
S. S. Westernland, N. 49° 00′. W. 28° 30′	30.07	763.8	53	11.7	86	ssw.			4		2		ssw.	7 h'r	7 h'r	light	nne.	clear.
S. S. W. A. Scholten, Rotterdam, Holland	29.59	751.6	47.7	8.7	89	wsw.			3		7		wsw.	6 h'r	6 h'r			
S. S. State of Nebraska, N 48° 36′, W. 34° 44′ *†	29.92	760 0	53	11.7		ssw.			5		4		sw.				n.	d. clouds.
S. S. Saxon, Boston, Mass.			40	4.4		calm			0		10			rain	rain			
S. S. Celtic, Liverpool, Eng			55?	12.8?		sw.			6		8		w.	8 h'r	8 h'r			showery.
S. S. Republic, N. 49° 41′, W. 25° 38′*†	30.06	763.5	56	13.3	87	wsw.			3		2		wsw.	o	o	mod.	n;nw	d. clouds.
S. S. Lepanto, N. 44° 49′. W. 9° 10′	29.94	760.5	49	9.4		wnw.			6		6		nw.	o	o	con.	var.	cloudy.
S. S. Romano, Hull, England			48	8.9		w.			3		3		w.	o	o			fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. S. Salerno, N. 43° 00′, W. 48° 06′			44	6.7		nnw.			4		7		nnw.	0	0	sm'h	nnw.	hazy.
S. S. Antonio Lopez, Barcelona, Spain			59.5	15.3	79	ssw.			2	7 c				0	0			fair.
Bgt. Achsah, N. 21° 21′, W. 58° 18′†	30.15	765.8	75	23.9		e.			5		4		e.	0	0	mod.	e.	clear.
S. Armenia, N. 44° 03′, W. 26° 10′*	30.23	767.8	54	12.2	74	wsw.			3		7		ssw.	0	0	mod.	nnw.	fair.
S. S. Bracadale, N. 45° 04′, W. 35° 20′			52	11.1		w.			6		5		w.	4 h'r	4 h'r	high	w.	squally.
Bk. Benjamin Dickerman, N. 20° 15′, W. 54° 30′*†	30.14	765.5	72	22.2		e.			5		8		e.	½ h'r	½ h'r	long	ne	cloudy
S. Cornelius, N. 41° 24′, W. 47° 34′			37.6	3.1		n.			5		5?		nne.	0	0	long	nnw	cloudy.?
S. Dora, N 43° 44′, W 40° 09′†	29.95	760.7	44.6	7.0		nw.			6		6		n.	0	0	light	n.	cloudy.
S. David Stewart, Orchilla, Venezuela			79	26.1		ene.			4		2		ene.	0	0			
Schr. Edith R. Seward, N. 20° 05′, W. 55° 20′			74	23.3		n.			2		7		ne.	¼ h'r	¼ h'r	long	n.	cloudy.
Bk. Fred. W Carlon, Progreso roads, Mexico			80	26.7		ese.			4		0			0	0	mod	ne.	clear.
Bk. Gloire, N. 36° 12′, W. 74° 05′*	29.45	748.0	67?	19.4?		ssw.			7		10		w.	2 h'r	2 h'r	r'gh	ssw.	raining.
Bk. Godeffroy, N. 60° 47′, W. 41° 55′			78.4	25.8	86	ne.			5		7		ene.	sh'rs	sh'rs	mod.	ne.	fair.
Bk. George Davis, N. 43° 46′, W. 35° 20′*†	30.00	762.0				se.			5				se.	2 h'r	2 h'r	mod	se.	covered.
Bk. Galeon, N. 53° 20′, E. 0° 10′†	29.45	748.0	43	6.1		ssw.			4		5		sw.	0	0			fair.
Bk. Hattie G. McFarland, N. 15° 59′, W. 80° 37′†	30.04	763.0	76	24.4		e.			4		5		e.	0	0	sll't		
S. Henry, N. 43° 49′, E 15° 00′*	30.10	764.5	52.5	11.4		wnw.			0–1	4 c	0					1	wnw.	hazy.
Bg. John Wesley, N. 37° 10′, W. 74° 51′						calm			0		0			0	0	sm'h	se.	clear
Schr. Jas. Slater, N. 37° 25′, W. 67° 36′*†	30.10	764.5				ssw.			8		10		s.	1 h'r	1 h'r	r'gh	ssw.	stormy.
Bg. John Welsh, jr., N. 30° 04′, W. 72° 22′†	29.87	758.7				s.			6		5		s.			hv'y	s.	fair.
Schr. Jenny Greenbank, N. 39° 06′, W. 73° 34′			51	10.6		sse.			6		8		sw.	2 h'r	2 h'r	rg'h	sse	stormy.
S. S. Laurel, Key West, Fla†	30.07	763.8	73	22.8		sw.			2		9		sw.	sh'rs	sh'rs			threatening
S. S. Madrid, N. 50° 08′, W. 3° 38′†	29.57	751.1	48	8.9	86	wsw.			6		5		w.	sh'rs	sh'rs	r'gh	sw.	fair.
Schr. Minnie A. Bonsall, Brunswick, Ga						wnw.			5					0	0			clear.
Schr. Maggie Abbott, N. 22° 15′, W 72° 08′*†	30.10	764.5				ese.			6		3		se.	0	0	sll't	se.	clear.
Schr. Norena. Ponce, Porto Rico, W. I						ne.			1		2		e.	0	0	sm'h		fine.
Bk. Orpheus, N. 45° 50′, W. 27° 42′*	30.14	765.5	54	12.2		sw.			3		10					sm'h		fair.
Bk. Sunbeam, N. 39° 04′, W 51° 22′*†	30.38	771.6	50	10.0	86	n.			6		9		nne.	0	0	r'gh	nne.	cloudy.
Bgt. Sunlight, N. 20° 30′, W. 55° 33′†	30.07	763.8				ese.			4		7		ese.	½ h'r	½ h'r	mod.	e.	fair.
S. St. David. N 27° 01′, W. 39° 49′*†	30.04	763.0	70	21.1	80	nw.			3		4		nw.	1 h'r	1 h'r	long	nw.	light rain.
S. Stephen D. Horton, Antwerp, Belgium						ssw.			3		10		wnw.	3 h'r	3 h'r			hazy.
Bk. Silica, Hamburg, Germany						s.			6		8		s.	0	0			
S. Vincenzo Accame, N. 37° 04′, W. 45° 02′†	30.29	769.3	57.2	14		n.			6		6		nne.	3⅝ hr	3⅝ hr			
Bk Western Chief, N. 39° 33′, W. 69 34′						s.			6	9 c	0	s.				6	s.	hazy.
S. S. City of Alexandria, N. 34° 02′, W. 75° 58′*†	29.79	756.7	60	15.6		ssw.			7									raining.
S. S. Strathleven, N. 48° 50′, W. 15° 52′*	29.83	757.7	49.8	9.9	94	wnw.			6		9		wnw.			6	wnw.	raining.
S. Frank N. Thayer, N. 39° —′, W. 66° —′*	30.04	763.0	61	16.1	77	s.			6		9 ks		sw.	rain	rain	rg'h	var.	d. clouds.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.94	760.5	71	21.7	80	sse.			1		0							clear.
H. M. S. Amethyst, S. 36° 58′, W. 56° 25′	29.85	758.2	68.5	20.3	82	se.			1		1	nw.						blue sky.
H. M. S. Opal, Simons Bay, Cape Colony	29.84	757.9	73	22.8	72	nw.			3		4	nw.						d. clouds.
H. M. S. Sylvia, S. 50° 33′, W. 67° 13′	29.64	752.8	52.7	11.5	81	nw.			3		10					3	nw.	overcast.
H. P. M. S. Tejo, Noki, Guinea	30.04	763.0	85.1	29.5	92	calm			0		9			0	0			overcast
H. P. M. S. Benko, S. 3° 32′, W. 6° 25′	29.95	760.7	75.2	24.0	91	ssw.			3		10		sw.	5 h'r	5 h'r	3	sw.	raining.
S. S. Hevelius, S. 32° 39′, W. 49° 34′*†	29.90	759 4	76	24.4		sw.			0		4		sw.					clear.
S. S. Rosse, Bahia, Brazil	30.07	763.8	78	25.6	86	calm			0		0			0	0			fine.
S. S. Leipzig, S. 1° 03′, W. 31° 34′*	29.99	761.7	75.0	23.9	95	ene.			1		4			5 h'r	5 h'r	sm'h	e.	fair.
Bk. Adelaide, S. 10° 47′, W. 34° 43′*†	30.00	762.0				ene.			3		0			0	0	light	ese.	clear.
Bk. Celestina, S. 28° 13′, W. 42° —′*†	29.90	759.4				ene.			4		10		ene.	rain	rain	mod.	sse.	covered.
S. S. George S. Homer, S. 20° 21′, W. 30° 39′*†	30.14	765.5				calm			0		5		ne.	0	0	long	sw.	squally.
S. Grecian, S. 26° 15′, W. 27° 50′†	30.10	764.5	76	24.4	77	n.			4		5?		var.	light	light	long	s.	clear.?
S. Henry Falling, S. 25° 40′, W. 22° 35′*†	30.11	764.8	81	27.2	96	ne.			1		2		ne.	½ h'r	½ h'r	sm'h	sw.	clear.
Bk. Horace Scudder, Banana creek, Guinea*†	30.05	763 3	86	30.0		sw.			2		5		sw.	0	0			fair.
S. Ismir, S. 57° 08′, W. 67° 45′*†	28.75	73 .2				w.			8		10		w	8 h'r	8 h'r	mod.	w.	
Bkt. Levanter, Montevideo, Uruguay*	29.93	760 2				se.			1		0			0*	0			clear.
Bk. Winifred, S. 3° 35′, W. 35° 15′*†	30.00	762.0											se.	0	0		se.	
S. S. Teniers, S. 31° 37′, W. 49° 02′	29.80	756.9	75.3	24.1	89	sw.			5		4 k			2.20	55.9	5	ne.	d. clouds.
S. Orealia, S. 40° 34′, E. 12° 37′*	29.62	752.3				w.			6		8		w.	sh'rs	sh'rs	high	w.	cloudy.
District No. 3—North Pacific.																		
U. S. S. Alert, Nagasaki, Japan			43	6.1	51	nnw.			3		8		nnw.					cloudy.
U. S. S. Essex, Canton, China			59	15.0	82	nnw.			1		2							clear.
U. S. S. Hartford, N. 20° 04′, W. 154° 17′	30.05	763.3	79	26.1	78	sse.			3		2			0	0	sm'h	n.;e.	clear.
U. S. S. Juniata, Nagasaki, Japan	30.27	768.8	42	5.6	83	nnw.			2		1		nnw.	0	0			clear.
U. S. S. Monocacy, Min river, China	30.45	773.4	49	9.4	71	ne.			3		10		ne.			sm'h		cloudy.
U. S. S. Palos, Tientsin, China	30.54	775.7	32	0.0		calm			0		0							clear.
H. M. S. Audacious, Victoria harbor, Hong Kong, China	30.30	769.6	63	17.2	89	calm			0		0							blue sky.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.31	769.9	58	14.4	76	ene.			3		0					3		blue sky.
H. M. S. Champion, Shanghai, China	30.50	774 7			90	se.			1		0							blue sky.
H. M. S. Flying Fish, N. 24° 26′, E. 118° 04′	30.37	771.4	53.2	11.8	77	se.			1–3		0					1		squally.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.94	760.5	84.5	29.2	72	ssw.			1		0							misty.
H. P. M S. Tamega, Macao, China	30.36	771.1	60.8	16.0	69	nw.			2		0			0	0			blue sky.
S. S. Newborn, N. 23° 03′, W. 107° 16′*†	30.10	764.5	66	18.9	74	nw.			2		2		nnw.	0	0	small	nw	clear.
S. S. Oregon, Columbia river, Oregon†	30.34	770.6	42	5.6	91	ne.			3		10		ssw.					raining.
S. S. Alameda, Honolulu, Sandwich Ids†	30.12	765.0	75	23.9		s.			3		5		s.; w.	0	0			fair.
S. S. Ancon, San Francisco, Cal	30.29	769.4	51	10.6	93	calm			0		1			0	0			clear.
S. S. City of Chester, Eureka, Cal†	30.41	772.4	45	7.2	92	calm			0		0			0	0			
S. S. Queen of the Pacific, Seattle, Wash. Ter	30.21	767.3	47	8.3	92	sw.			1		4		s.	0	0			fair.
S. S. State of California, Portland, Oreg			44	6.7	92	calm			0		10		se.					raining.
S. S. Eureka, N. 57° 28′, W. 134° 31′*†	29.50	749.3	38	3.3	90	sse.			5		10			24 h'r	24 h'r	sm'h		cloudy.
S. S. Australia, N. 34° 10′, W. 134° 22′	30.53	775.4	58	14.4	82	var.			2		2		se.	0	0	long	w.	clear.
S. S. City of Pekin, N. 35° 55′, W. 129° 35′†	30.35	770.9	56	13.3	75	e.			2		1		se.			long	w.	clear.
S. S. City of Rio de Janeiro, N. 26° 38′, E. 122° 48′†	30.40	772.1				ne.			6		6		ne.			mod.	n.	fair.
S. S City of Sydney, N. 27° 14′, W. 147° 54′*†	30.16	766.1	70	21.1	57	sse.			3	10 cs		sse.				mod.	w.	cloudy.
S. S. Colima, Panama, Panama†	30.01	762.2	76	24.4	77	nw.			2		4		calm	0	0			fair.
S. S. San Blas, N. 20° 10′, W. 105° 44′			70	21.1	90	n.			5		3		nnw.	0	0	long	nw.	clear
S. S. San Jose, N. 19° 04′, W. 104° 27′*†	30.05	763.3	74	23.3		ene.			3		4		e.	0	0	small	w.	fair.
S. S. Benalder, Kobe, Japan*	29.98	761.5	42	5.6	66	w.			2–3		0			0	0	sm'h		clear.
S St. Francis, N. 31° 30′, W. 133° 00′*†	30.55	776.0	59	15.0	70	ne.			4		0			0	0	long	nw.	clear.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, Callao, Peru*	29.98	761.5	71	21.7	100	sse.			1		5		calm			long	ssw.	fair.
H. M. S. Constance, S. 28° 28′, W. 80° 00′	30.23	767.8	72	22.2	80	se.			3			calm				3	ssw.	blue sky.
H. M. S. Espiegle, S. 46° 35′, E. 167° 20′	29.66	753 4	52	11.1	35	sw.			3		2					4	sw.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.96	761.0	63.3	17.4	83	w.			4		7					sm'h		squally
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	30.09	764.3	51	10.6	73	n.			1		8							d. clouds
S. S. Zealandia, Sydney, N. S. W	29.96	761.0	72	22.2	80	s.			6		10		se.	6 h'r	6 h'r			overcast.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.93	760.2	62	16.7		nw.			2		4	n.				sm'h		
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.78	756.4	77	25.0	91	ne.			2		0							blue sky.
H. M. S. Tourmaline, S. 13° 19′, E. 50° 28′	29.93	760.2	84	28.9	83	se.			2		3					sm'h		d. clouds.

International Chart I. February 23, 1884. Isobars and Isotherms.

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 24, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.12	765.0	59.4	15.2	81	se.			8		10			0.102	2.6		Roziere.
Algiers			30.07	763.8	57.2	14.0	78	w.			5		10			0	0		Théve.
La Galle			30.07	763.8	60.1	15.6	83	nw.			2		1			0	0		Fonfrède.
Tunis			30.13	765.3	55.4	13.0	62	nw.			3		2			0	0		Delord.
Geriville					50.4	10.2	84	n.			2		4			0.031	0.8		Forfert.
Laghouat			30.23	767.9	63.7	17.6	58	calm			0		0			0.035	0.9		Abraham.
Biskra			30.24	768.2	66.6	19.2	72	e			1		2			0	0		Gouson.
Australian.																			
Adelaide, South Australia			30.30	769.6	56.5	13.6	64	se.	11	4.9			0			0	0	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.78	756.4	29.97	761.2	56	13.3	67	nnw.	20	8.9			4		nnw.	0	0	clear	Com. J. Shortt, R.N.
Melbourne, Victoria	30.12	765.0	30.21	767.3	57.8	14.3	83	se.	1	0.4			10			0	0	threatening	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.40	746.8	29.95	760.8	53.1	11.7	49	sw.			4		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.02	737.2	29.80	757.0	42.8	6.0	85	wsw.	4.3	1.9			10			0.091	2.3		Dr. Wierzbieki
Eperies	29.00	736.7	29.90	759.5	42.8	6.0	72	calm			0		10 s			0	0		Julius Mikolik.
Gratz	28.64	727.5	29.90	759.5	49.8	9.9	62	sw.			1		7			0	0		Andreas Rospini.
Hermannstadt	28.50	724.0	29.94	760.5	52.0	11.1	36	se.			2		0			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.56	725.5	29.02	750.0	46.0	8.3	71	wsw.			2		8			0.067	1.7		The Staff.
Lemberg	28.84	732.5	29.84	757.8	45.5	7.5	66	s.			3		10			0	0		Dr. T. Stanecki.
Pola	29.91	759.7	30.02	762.5	56.3	13.5	74	ssw.			1		7			0	0		I. R. Hydrographic Office.
Szathmar	29.42	747.2	29.89	759.2	46.2	7.9	64	s			3		7			0	0		Joseph Midlinsky, S. J
Szegedin	29.62	752.4	29.90	759.5	52.9	11.6	59	s.			2		7			0	0		Karl Stancel.
Trieste	29.93	760.2	30.03	762.7	50.4	10.2	77	calm			0		10			0	0		Royal Academy.
Vienna	29.19	741.5	29.92	760.0	43.5	6.4	73	w.			2		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.30	718.8	29.71	754.7	39.9	4.4	94	wsw.			3		5			0.709	18.0	rain & snow	
Brussels	29.41	747.0	29.61	752.2	46.0	7.8	79	sw.			5		10	sw.	wsw.	0.098	2.5		
Furnes	29.58	751.2	29.60	751.7	47.8	8.8	80	w.			2		8			0.276	7.0		
Maeseyck	29.48	748.7	29.60	751.9	46.8	8.2	86	se.			3		7			0.394	10.0		
British.																			
Aberdeen	29.47	748.5	29.57	751.1	42.0	5.6	70	wnw.	14	6.3			2			0.010	0.3	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			29.65	753.1	43.0	6.1	87	wnw.	18	8.0			4					d. clouds	John Hartnup.
Bolton, Sharples	29.10	739.1	29.64	752.8	44.2	6.8	85	nw.	6	2.7			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.22	742.2	29.62	752.3	43.5	6.4	73	nw.			2		10			0.27	6.9	overcast	McLandsborough & Preston
Bridgetown, Barbadoes, W.I	30.03	762.7	30.06	763.5	81	27.2	78	ne.			2		2					d. clouds	Corp'l C. McGregor, A.H.C
Cardington					43.0	6.1	85	nw.			1.0		8					overcast	John McLaren.
Chatham, School M. E.	29.42	747.3	29.59	751.6	46.1	7.8	71	w.			3		10			blank	blank	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.62	752.3	29.85	758.2	49.2	9.6	75	wnw.			5		5					d. clouds	The Staff.
Fort Napier, Natal	27.62	701.5	29.93	760.2	88.8	31.6	50	e.			1		1					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.69	754.1	29.73	755.1	48	8.9	78	wsw.			2		4			0.06	1.5	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.19	766.8	30.28	769.1	56.4	13.6	85	nw.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.43	747.5	29.61	752.1	46.1	7.8	66	nw.					10					overcast	The Staff.
Guernsey	29.52	749.8	29.82	757.4	49.5	9.7	48	wnw.			5		7					showery	A. Collenette, F.R.M.S.
Kew, Observatory	29.60	751.8	29.63	752.6	46.3	7.9	62	nw.	20	8.9			9					d. clouds	The Staff.
Leicester, Museum	29.30	744.2	29.55	750.6	42.6	5.9	87	w.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.08	764.0	30.15	765.8	57.6	14.2	77	nw.			3		4			0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.07	763.8	30.11	764.8	72.0	22.2	77	ne.			3		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.42	747.3	29.65	753.1	45.4	7.4	70	nw.			5		10					threatening	The Staff.
Plymouth	29.71	754.6	29.78	756.4	51.6	10.9	78	wnw.			4		10					showery	John Merrifield.
Sandwick Manse, Orkneys	29.45	748.0	29.55	750.6	41.7	5.4	85						0					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.05	763.3	30.11	764.8	49.2	9.6	47	e.			1		0					blue sky	W. H. Lyne.
Sheffield	29.33	745.0	29.61	752.1	47.0	8.3	74	nw.			2		6					d. clouds	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss								nw.			3.5		3					blue sky	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.89	759.2	29.91	759.7	47.4	8.6	70	wnw.	19	8.5			8			blank	blank	squally	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.75	755.6	30.14	765.5	59.4	15.2	72	sw.	6.2	2.8			4 k			0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.60	751.8	29.64	752.8	5.0	—15.0		nw.	15	6.7		8 c	0			0.500	12.7	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.25	742.9	29.30	744.2	21	— 6.1	100	nw.	20	8.9			10 n			0.915	23.2	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.45	748.0	29.51	749.5	7	—13.9	91	nw.	21	9.4			10 s		nw.	1.32	33.5	cloudy	G. A. Blair.
Cornwall, Ontario	30.02	762.5	30.24	768.1	— 4.3	—20.2	100	nw.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.66	753.4	29.72	754.9	— 4.0	—20.0		nw.			6	0	0			0.700	17.8	blue sky	H. A. Johnson.
Father Point, Quebec*	29.93	760.2	29.95	760.7	— 9	—22.8	86	nw.	10	4.5		0	0			0.10	2.5	clear	J. McWilliams
Fort Garry, Manitoba*	29.05	737.9	29.08	761.5	— 4	—20.0	100	s.	8	3.6			10 n			0	0	fair	James Stewart.
Fredericton, N. B.	29.64	752.8	29.72	754.9	3.1	—16.1	69	nw.	19	8.5		0	0			1.510	38.4	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B.	29.73	755.1	29.79	756.7	9	—12.8	76	nw.	27	12.1		5 k	0		nw.	1.75	44.4	fair	J. Chipman Seeley
Granton, Ontario	29.07	738.4	30.30	769.6	3.7	—15.7	95	e.	2	0.9			10			0	0	overcast	Jas. Grant.
Halifax, N. S*	29.17	740.9	29.30	744.2	27	— 2.8	100	nw.	24	10.7			10 n			0.782	19.8	heavy snow	A. Allison.
Hamilton, Ontario	29.80	756.9	30.24	768.1	12.5	—10.8	81	n.			1	8 ck	0	n.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.89	759.2	30.27	768.8	1	—17.2	87	calm	0	0		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.29	744.0	29.33	745.0	24.0	— 4.4	87	w.	7	3.1		5 k	0			0	0	d. clouds	C. H. Rigby.
London, Ontario	29.29	744.0	30.20	769.4	4.5	—15.3	82	calm			0		10 ks			0.250	6.3	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.35	694.7	29.65	753.1	37	2.8	92	sw.	46	20.6			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	27.75	704.8	29.88	758.9	— 3	—19.4	100	nw.	6	2.7			10 s		nw.	0	0	cloudy	Rev. J. M. Wellwood
Montreal, Quebec*	30.02	762.5	30.25	768.3	— 1	—18.3	69	nw.	10	4.5		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.01	762.2	30.27	768.8	—11.0	—23.9	100	nw.				0	9 s			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.46	748.3	30.29	769.4	—18	—27.8	73	calm	0	0		0	2 ks			0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.42	747.3	30.25	768.3	3.7	—15.7	74	n.			1		fg.			0	0	misty	Wm. O'Connor, M.A.
Port Arthur	29.33	745.0	30.11	764.8	3	—16.1	87	calm	0	0		0	5 n			0	0	misty	W. P. Cooke.
Port Dover, Ontario	29.53	750.0	30.30	769.6	7	—13.9	100	calm	0	0		0	0			0	0	clear	H. Morgan
Port Stanley, Ontario	29.55	750.6	30.26	768.6	8	—13.3	58	e.	6	2.7		0	0			0	0	clear	M. Payne.
Qu Appelle, N. W. T	27.18	690.4	29.47	748.5	30	— 1.1		w.	8	3.6		8 cs	0	w.		0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.69	754.1	30.09	764.3	— 7	—21.7	82	sw.	12	5.4		0	0			0	0	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.74	755.4	30.29	769.4	—26	—32.2	100	calm	0	0		5 c	0	n.		0	0	fair	W. H. McIntyre
St. Andrews, N. B.	29.63	752.6	29.68	753.9	7	—13.9	84	nw.	15	6.7		0	0			1.27	32.3	clear	
St. John, N. B	29.52	749.8	29.67	753.6	7.5	—13.6	87	nw.	40	17.9		0	0			1.880	47.8	blue sky	G. Hutchinson.
St. Pierre, N. F.			29.57	751.0	38.5	3.6		s.			6								The Commandant.
Saugeen, Ontario*	29.47	748.5	30.28	769.1	0	—17.8	100	calm	0	0		0	c			0.10	2.5	clear	
Stratford, Ontario	28.86	733.0	30.31	769.9	— 2.9	—19.4	90	calm	0	0			10 s			0	0	overcast	W. McBride, M.A.
Sydney, C. B*	29.04	737.6	29.10	739.1	42	5.6	96	se.	15	6.7			10 n			0.47	11.9	light rain	T. C. Hill, C.E.

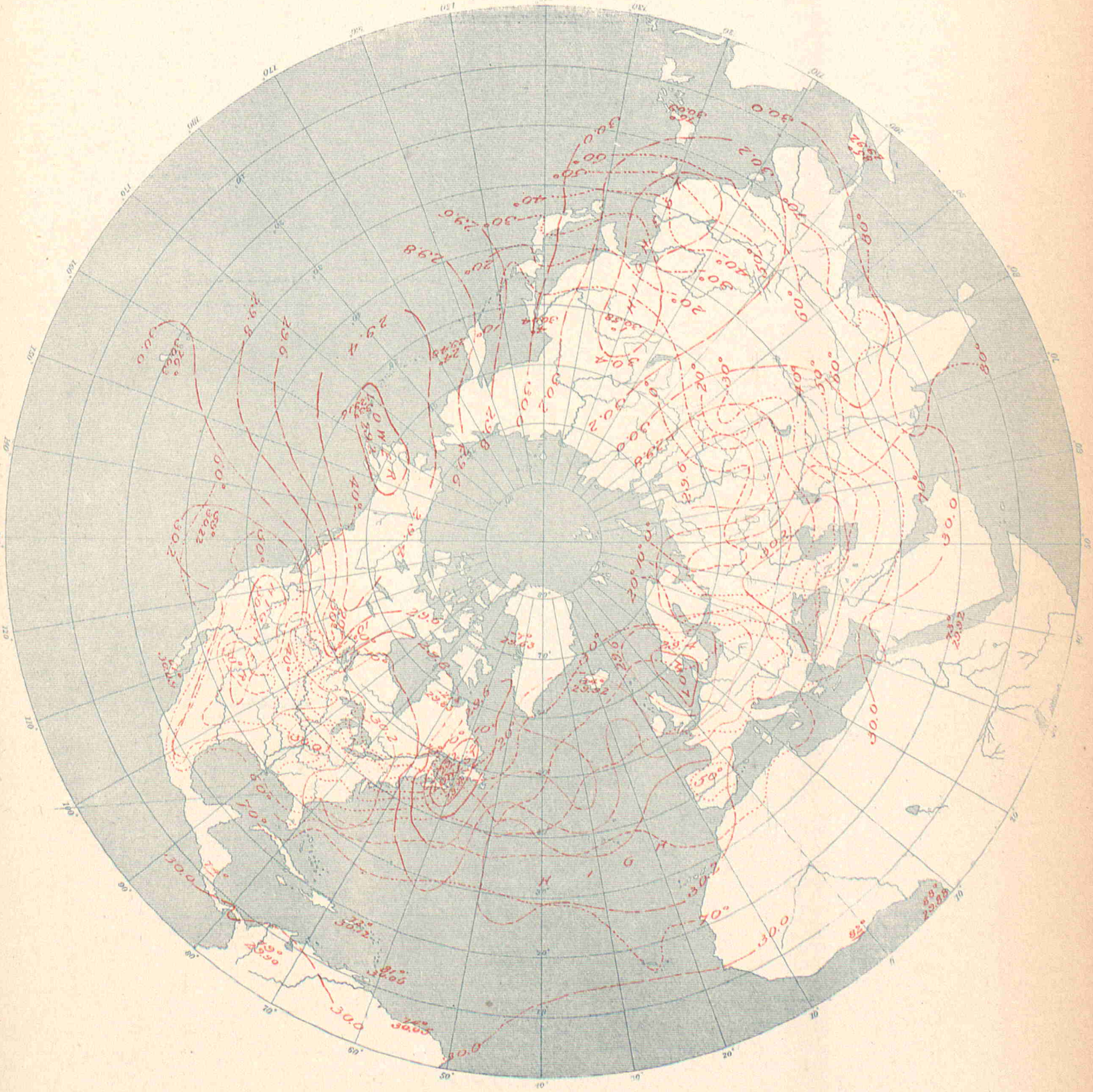
STATIONS.	Barometer. Corrected for instrument. error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
Toronto, Ontario*	29.90	759.4	30.34	770.6	1	—17.2	79	w.	2	0.9		5 cs	0	w.		0	0	fair	Meteorological Observatory.
Woodstock, Ontario	29.16	740.7	30.36	771.1	— 1.8	—18.8	81	sw.				10 cs	0	sw.		0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.62	752 3	29.69	754.1	18	— 7.8	80	nw.	42	18.8		2 ck	0	w.		1.46	37.1	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.07	763.8	30.10	764.5	66.0	18.9		sw.				0	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.85	758.2			75.0	23.9	49	ne.				0	3 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			84	28.9	41									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.96	760 9	30.03	762.8	61.7	16.5	87	ne.			1	10						cloudy	Samuel Redolez.
Iquique	29.94	760.4	29.97	761.1	66.2	19.0	81	sw.			3							cloudy	Rafael Moreno.
Niebla	29.69	754.2	29.80	756.9	58.6	14.8	63	e.			4	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.91	759 8	30.00	762.0	63.7	17.6	76	sw.			1	8 c		sw.				fair	Manuel Tobar.
Punta Corona	30.06	763 6	30.25	768.3				e.			1					0	0	cloudy	Francisco Alvarado.
Valparaiso	29.86	758.4	30.00	761.9	62.2	16.8	84	sw.			0	0	0					clear	Paez-I-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.51	775.0	30.54	775.6	31.5	— 0.3	68	wnw.	6.3	2.8		0	0			0	0	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.39	746.6	29.44	747.8	41.0	5.0	95	sw.	9	4.			10					raining	Oversergent Fischer.
Fanöe	29.37	746.0	29.39	746 5	41.5	5.3	94	wsw.			2		9						Overloerer Lauridsen.
Godthaab, Greenland	29.56	750 8	29.60	751.9	22.6	— 5.2		sse.			6		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.86	758.5	29.88	759 0	27.1	— 2.7		calm			0		10						
Jacobshavn, Greenland	29.65	753 0	29.69	754.2	17.2	— 8.2		e.			4		7						
Stykkisholm, Iceland	29.88	758.9	29.92	760.0	33.8	1.0	90	calm			0		8						A. O. Thorlacius.
Thorshavn	29.59	751.5	29.61	752.1	42.6	5.9	83	ne.	9	4			6						Overloerer Bergh.
Upernavik, Greenland	29.59	751.5	29.63	752.7	— 6.7	—21.5		e.			4		3						
Vestervig	29.23	742.4	29.32	744.7	41.9	5.5	93	wsw.			4		10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.91	759.8			58.3	14.6		sw.	4.7	2.1		8 ck	0			inap.	inap.		Albert Ismalun.
French.																			
Agen, Normal School	29.43	747.5	30.08	764 1	55.0	12.8	90	se.			1		10 n		nw.			raining	M. Labroue, Director.
Alençon, Normal School	29.15	740.3	29.70	754.3	49.1	9.5	75	sw.			1	5 ck				0	0	cloudy	M. Nicot, Director.
Arras, Normal School	29.40	746.8			45.9	7.7	76	w.			4–8		8		w.	0.366	9.3	very cloudy	M. Ungerer, Director.
Avignon, Normal School	30.03	762.8	30.11	764.8	58.3	14.6	44	nw.			1		0			0.165	4.2	clear	M. Giraud, Director.
Bar-sur-Seine	29.34	745 1	29.90	759.4	49.1	9.5	85	w.			1		8		w.	0.201	5.1	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.45	748.0	29.72	754.8	50.0	10	70	sw.			4		8		wsw.	0.004	0.1	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.07	738.3	29.96	761.0	48.2	9	67	sw.			1		cn		ne.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.85	758.3	30.12	765.0	53.4	11.9	83	w.			2		8			0.193	4.9	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.43	747.4	29.98	761.6	50.2	10.1	74	wsw.			1		kn		wsw.	0.047	1.2		M. Sauvageot, Director.
Brest, Naval Observatory	29.74	755.4	29.98	761.6	51.4	10.8	86	wnw.			2		10		wnw.	0.071	1.8	raining	M. de Kermarrec, Dir.
Caen, Normal School	29.71	754.7	29.79	756.6	48.9	9.4	95	w.			1		10			0.12	3.	raining	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.44	747.8	29.80	757.0	46.8	8.2	71	sw.			2		2		w.	0.555	14.1	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.21	741.8	29.72	755.0	47.7	8.7	66	w.			2		10		w.	0.197	5.0	raining	M. Noël, Director.
Clermont-Ferrand Obs'y	28.67	728.3	30.04	763.0	50.7	10.4	56	w.			4		8		w.	0.008	0.2		M. Alluard, Director.
Cluny, Normal School	29.18	741.2	30.04	762.9	48.6	9.2	64	sw.			1		10		sw.	0.150	3.8	covered	M. de Villemontée, Dir.
Commercy, Normal School	28 99	736.4	29.86	758 5	44.1	6.7	90	w.			6		5 kn	w.	w.	0.598	15.2	raining	Dr. Coulet, Director.
Gap, Normal School	27.49	698 2	30.04	763 1	48.6	9.2	71	ne.			1		5 n			0.031	0.8		M. Jarach, Director.
Gréasque, du Rhone	28.93	734 9	30.07	763.7	54.1	12.3	67	nw.			4		5		w.	0	0		M. Kina, Director.
Grenoble, Normal School	29 29	743.9	30.11	764 9	53.6	12	65	s.			1		k			0	0		M. Ablard, Director.
Guéret, Normal School	28.48	723.3	30.00	762.1	43.7	6.5	100	sw.			4		10 kn		sw.	0.31	8.	light rain	M. Delorme, Dir.
Lescar, Normal School	29.63	752.6	30.19	766.9	52.7	11.5	69	w.			6		5		w.	0.106	2.7	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.87	758.8	29.98	761.4	51.8	11.0	85	w.			4		8	w.	w.	0.016	0.4	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.99	736.4	30.05	763.3	52.5	11.4	44	w.			2		8 n	wsw.	w.	0.008	0.2	very cloudy	M. André, Director.
Mans, Normal School	29.56	750.9	29.87	758.8	49.8	9.9		w.			6		8		w.	0	0	very cloudy	M. Richard, Director
Marseille, Observatory	29.78	756.4	30.05	763.3	56.3	13.5	51	nw.			4–6		7		sw.	inap.	inap.		M. Stephan, Director.
Montlouis	24.85	631.2	29.69	754.2	40.1	4.5	65	nw.	13.0	5.8			5	sw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.02	762 4	30.13	765.2	55.4	13	66	wnw.			4		2	n.		0.102	2.6	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.05	737.9	29.85	758.3	43.5	6.4	85	ssw.			2		kn		sw.	0.154	3.9		M. Hasse, Director.
Nantes, Observatory	29.84	758.0	30.00	762.1	53.2	11.8	70	wsw.			2–4		9 k; kn		wnw.	0.047	1.2		M. Larocque, Director.
Perpignan, Observatory	30.05	763 3	30.17	766.2	55.8	13.2	43	nw.	13.0	5.8			3	se.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.1			10.3	— 8.7		nw.			1		5		nw.	0.079	2.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.03	737 3	30.10	764.6	54.3	12.4	61	n.			1	c		sw.	nw.	0.08	2.		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.02	635.4			29.8	— 1.2	100	wsw.			8		10			0.094	2.4		M. Alluard.
Rochefort, Naval Obs'y	30.05	763.3	30.08	764.1	54.0	12.2	74	wsw.			2		10		w.	0.55	14.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.80	756 9	30.02	762.4	54.7	12.6	68	w.			1				w.	0.232	5.9		M. Brotier, Director.
Rodez, Normal School	27.98	710.8	30.19	766.7	44.2	6.8		s.			0–8		10 kn		se.	0.020	0.5	raining	M. Seger, Director.
Rouen, Normal School	29.72	754.8	29.76	756.0	51.4	10.8	84	ssw.			1		5	ssw.		0 055	1.4	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.65	753.2	29.82	757.4	48.7	9.3	70	sw.			6		5		w.	0.008	0.2	cloudy	M. Renou, Director.
Toulouse, Observatory	29.49	749 0	30.22	767.5	51.4	10.8	68	wnw.			2		5	w.		0	0	cloudy	M. Baillard, Director.
Tours	29.77?	756.1?	29.77?	756.1?	51.1	10.6	68	wsw.			2		5	w.	w.	0.102	2.6	cloudy	M. de Tastes.
Versailles, Observatory	29.32	744 6	29.81	757.1	47.8	8.8	67	w.			4		8			0.063	1.6	very cloudy	Dr. A. Bergny, Director.
Sub-series.																			
St. Martin du Hinx	30.09	764.3	30.24	768.1	49.8	9.9	89	w.	13.9	6.2			10 kn		w.	0.520	13.2	covered	M. Cartier, Director.
German.																			
Ansbach	28.40	721.4	29.87	758.7	46.6	8.2	50	sw.			6		4	sw.		0.071	1.8		Prof. Jnedt.
Bamberg	28.96	735.6	29.80	756.8	48.4	9.1	56	sw.			5		6 k		wsw.	0.205	5.2		Prof. Dr. Hoh.
Berlin	29.52	749.7	29.66	753 4	47.5	8.6	68	sw.			5		10			0.087	2.2	raining	Meteorological Institute
Breslau	29.27	743.4	29.80	756.8	48.0	8.9	62	w.			2		9			0	0		Royal University Obs'y
Carlsruhe	29.39	746.4	29.85	758.1	48.6	9.2	65	sw.			7		10	sw.		0.240	6.1	raining	Albert Senz.
Cassel	28.93	734 7	29.64	752.8	45.7	7.6	74	sw.			7		8	sw.		0.134	3.4		Dr. H. Möhl.
Frankfort-on-the-Main	29.39	746 4	29.75	755 7	48.2	9.0	74	ssw.			3		9			0.157	4.0		Physical Society.
Friedrichshafen	28.52	724.5	29.90	760 9	47.8	8.8	56	sw.			7		4	sw.		0.035	0.9		Wilhelm, Chief Tel.
Hamburg	29.43	747.5	29.52	749 8	45.9	7.7	80	ssw.			6		9			0.008	0.2		E. Preller.
Kiel	29.45	748.1	29.47	748.5	44.1	6.7	86	sw.			2		9			0.110	2.8		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.29	744 0	29.71	754 6	49.6	9.8	60	sw.			5		8	wsw.		0.059	1.5	stormy	H. Leppig, Asst.
Magdeburg	29.46	748 3	29.65	753.1	49.6	9.8	66	sw.			4		4	sw.		0.173	4.4		Weather Observatory.
Memel	29.64	752.8	29.69	751.0	36.5	2.5	89	nw.			3		10 k						Issermann.
Munich	28.09	713.5	29.95	760.7	47.3	8.5	51	nw.			4		7	n.		0.004	0.1		Central Station.
Neufahrwasser	29.67	753.7	29.69	754.1	43.0	6.1	84	w.			2		10			0.177	4.5		A. Lothes.
Neustadt, Palatinate	29.26	743.2	29.78	756.5	46.6	8.1	78	sw.			1		10			0.030	16.0	raining	Prof. Dicknether.
Stuttgart	28.91	734 3	29.81	757.1	49.1	9.5	67	sw.			2		9	w.		0.126	3.2		Prof. Dr. Schoder.
Wustrow	29.48	748.8	29.50	749.4	45.0	7.2	89	ssw.			5		8 s			0.079	2.0		Profs. Brandes & Reimer
Greek.																			
Athens	29.71	754.5	30.09	764.3	59.7	15.4		n.			0.5	0	0			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.96	761.0	30.01	762.3	82.6	28.1	51	wsw.	15.0	6.7			6			0	0	d. clouds	
Deesa	29.48	748.7	29.95	760 6	89.0	31.7	14	nw.	9.0	4.0			0			0	0	blue sky	
Bombay	29.94	760.4	29.98	761.4	77.7	25.4	71	nw.	14.0	6.3			0			0	0	blue sky	
Poona, Yarrowda	28.09	713.6	29.93	760.2	85.7	29.8	17	nw.	19.0	8.5			0			0	0	blue sky	
Belgaum	27.39	695.7	29.91	759.8	80.5	26.9	51	wsw.	8.0	3.6			6	w.	n.	0	0	d. clouds	
Lahore	29.28	743 6	30.04	762.9	73.0	22.8	44	calm	0	0			0			0	0	blue sky	
Roorkee	29.13	739.6	30.03	762 8	74.7	23.7	29	calm	0	0			0			0	0	blue sky	
Agra	29.45	748.0	30.02	762.5	76.2	24.6	44	ne.	4.0	1.8			0			0.060	1.5	blue sky	
Nagpur	28.85	732.7	29.88	758.9	87.2	30.7	27	s.	12.0	5.4			5		w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.60	726.5	29.99	761.7	69.7	20.9	73	ne.	10.0	4.5			6		nw.	1.50	38.1	hailing	
Lucknow	29.67	753.6	30.06	763.4	70.2	21.2	35	calm	0	0			0			0	0	blue sky	
Allahabad	29.76	755.9	30.09	764.3	61.7	16.5	91	n.	2.0	0.9			10			0.18	4.6	raining	
Patna	29.84	757.9	30.03	762.8	73.7	23.2	48	se.	4.4	2.0			10	se.	se.	0	0	overcast	
Hazaribagh	27.95	709.9	30.03	762.8	62.2	16.8	85	nnw.	6.0	2.7			10			0.26	6.6	thud'rstorm	
Cuttack	29.91	759.8	30.00	761.9	81.2	27.3	42	ssw.	4.0	1.8			4			0	0	d. clouds	
Calcutta, Alipore	29.98	761.6	30.01	762.2	77.7	25.4	55	wsw.	1.0	0.4			0			0	0	blue sky	
Dhubri	29.91	759.7	30.03	762.8	73.5	23.1	58	calm	0	0			9	w.		0	0	overcast	
Chittagong	29.95	760.8	30.04	763.1	73.1	22.8	65	wnw	2.5	1.1			2			0	0	d. clouds	
Sibsagar	29.72	754.8	30.07	763.7	65.6	18.7	81	ne.	2.0	0.9			5	sw.	sw.	0	0	d. clouds	
Jeypore	28.55	725.0	30.00	762.1	77.7	25.4	35	e.	6.0	2.7			3		e.	0.03	0.8	d. clouds	
Zanzibar	29.91	759.7	29.93	760.3	82.8	28.2	70	nw.	2.9	1.3			2		ene.	0	0	d. clouds	
Bellary	28.44	722.4			88.0	31.1	25	e.	4	1.8		2 c	0			0	0	d. clouds	
Trichinopoly	29.70	754.4			85.2	29.6	41	ne.	0.3	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.60	751.9	30.02	762.5	47.7	8.7	74	e.	1.3	0.6			10			0	0		Prof. Giovanni Olodig.
Milan	29.49	749.0	30.02	762.5	45.1	7.3	87	nw	1.3	0.6			10			0.185	4.7		Prof. G.V.Schiapparelli
Padua	29.90	759.4	30.01	762.3	48.0	8.9	72	calm	0	0			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.09	738.9	30.02	762.4	44.1	6.7	79	sse.	1.3	0.6			0			0	0		Prof. F. F. Denza.
Genoa	29.80	756.8	29.99	761.7	52.2	11.2	97	s.	2.5	1.1			10	s.		1.016	25.8		Prof. G. M. Garibaldi.
Pesaro	29.98	761.6	30.04	762.9	56.8	13.8	61	sw.	5.6	2.5			7	sw.		0	0		Prof. Luigi Guidi.
Florence	29.78	756.3	30.04	762.9	56.3	13.5	72	sw.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.89	759.2	29.96	761.0	58.8	14.9	70	s.	9.4	4.2			7			0	0		Prof. P. Monte.
Rome	29.90	759.4	30.08	763.9	58.1	14.5	59	ssw.	6.3	2.8			8			0.031	0.8		Prof. P. Tacchini.
Lecce	29.82	757.5	30.08	764.1	58.5	14.7	47	s.	4.9	2.2			1			0	0		Prof. C. de Giorgi.
Cosenza	29.20	741.7	30.11	764.8	54.7	12.6	77	sw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.84	758.0	30.10	764.5	58.5	14.7	64	ne.	6.3	2.8			0			0	0		Prof. G. Cacciatore
Syracuse	30.01	762.3	30.06	763.4	57.0	13.9	61	wnw.	3.1	1.4			0			0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.58	751.2	30.11	764.7	54.9	12.7	71	w.	0	0			6	n		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.91	759.6	29.94	760.5	27.1	— 2.7	93	calm			0	0	4 k		w.	0.031	0.8	fair	H. Hattori.
Awomori	29.86	758.4	29.90	759.4	21.7	— 5.7	80	sw.	2.3	1.0		0	1 s			0	0	clear	K. Ogawa.
Hakodate	29.89	759.1	29.90	759.4	28.0	— 2.2	64	n.	15.2	6.8			10 n					snowing	Y. Souma.
Hamamatsu	29.84	757.9	29.94	760.4	34.6	1.4	72	w.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.11	764.9	30.13	765.3	33.5	0.8	90	n.	1.1	0.5			10 s		w.	0.114	2.9	cloudy	Y. Okamoto.
Kagoshima	30.20	767.2	30.22	767.5	36.0	2.2	66	n.			2	0	6 s		nw.	0.221	5.6		
Kanazawa	29.93	760.1	30.04	762.9	31.0	— 0.6	96	nw.	1.9	0.8			10 n			0.418	10.6	snowing	S. Endo.
Kioto	29.87	758.7	30.05	763.2	32.5	0.3	100	sw.	0.3	0.1			10 n			0.397	10.1	light snow	M. Tojima.
Kochi	30.06	763.6	30.08	764.1	35.0	1.7	72	nw.	4.5	2.0		0	0			0	0	clear	K. Kusunose.
Miasaka	30.15	765.8	30.18	766.6	34.0	1.1	62	wnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.78	756.5	29.89	759.3	24.8	— 4.0	47	calm	0	0		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.02	762.5	30.23	767.8	34.3	1.3	65	n.	9.0	4.0			10 s			0.020	0.5	overcast	
Nemuro	29.81	757.2	29.86	758.4	8.0	—13.3	78	calm	0	0		0	0			0	0	clear	A Shibuya.
Niigata	29.92	759.9	29.96	761.0	32.2	0.1	72	se.	2.4	1.1		0	5 ks		sw.	0.045	1.1	½ cloudy	Satoo & Tomikawa.
Nobiru	29.89	759.1	29.90	759.5	28.8	— 1.8	56	n.	7.4	3.3		0	0			0	0	clear	Yoshino & Midzushina.
Numadzu	29.86	758.4	29.90	759.4	30.6	— 0.8	71	ene.			2	0	1 s			0	0	clear	T. Ohgi.
Osaka	30.04	763.0	30.06	763.4	33.1	0.6	88	nw.	5.0	2.2		0	5 s			0.100	2.5	fair	H. Omura.
Sakai	30.10	764.4	30.11	764.6	35.1	1.7	69	ne.			2		10 ks		w.	0.169	4.3	cloudy	Yamawchi & Sakamoto.
Sapporo	29.84	758.0	29.91	759.8	20.0	— 6.7	48	ne.	2.1	0.9			9 s			0.140	3.6	overcast	S. Kimura.
Shimonoseki	30.01	762.3	30.16	766.0	35.0	1.7	60	w.			4		10 n			0.232	5.9	snowing	S. Sakano.
Wakayama	30.01	762.2	30.06	763.6	34.9	1.6	78	nw.	1.4	0.6		0	0			0.016	0.4	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.78	756.4	29.97	761.2	81.8	27.7	65	e.	16.0	7.2		1cs;0	4k;ks		ese.	0.02	0.5	fair	The Staff.
MEXICAN.																			
Leon	24.40	619.7	30.26	768.6	46.8	8.2	81	calm	0	0		3 c	0			0	0	clear	M. Leal & M. Pina
Mazatlan	29.79	756.7	30.05	763.4	65.5	18.6	97	e.	1.6	0.8		0	0			0	0	clear	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.56	750.8	29.56	750.8	46.9	8.3		wsw.			4					0.114	2.9		
Groningen	29.47	748.5	29.52	749.9	43.5	6.4		wsw.			2					0.193	4.9		
Helder	29.45	748.1	29.45	748.1	44.6	7.0		sw.			3					0.091	2.3		
Hellevoetsluis	29.50	749.4	29.50	749.4	51.3	10.7	81	sw.			4					0.039	1.0		
Utrecht	29.49	749.0	29.54	750.4	45.5	7.5	73	sw.			4		8			0.126	3.2	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.90	759.4			79.3	26.3	86	nne.	0	0			8			0.063	1.6		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.21	741.8	29.27	743.4	39.6	4.2	49	calm	0	0			5			0	0		
Brono	29.54	750.4	29.58	751.4	35.6	2.0	64	calm			0		3			0	0		
Christiania	29.24	742.6	29.39	746.4	35.4	1.9	91	ne.	2	1			10			0.307	7.8		
Gjæsvær	29.68	753.9	29.71	754.5	24.6	— 4.1		calm			0		0			0.008	0.2		
Lodingen	29.66	753.4	29.71	754.6	23.9	— 4.5	63	e.			1		0			0	0		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.25	768.3	30.34	770.6	61.5	16.4	45	ese.	8.1	3.6			0			0.134	3.4		Capt. D. A. de Cunha.
Lisbon, Observatory	30.06	763.4	30.40	772.2	53.1	11.7	55	n.	11.9	5.3			4			0	0		The Staff.
Ponta Delgada, Azores	30.08	764.0	30.15	765.8	60.8	16.0	85	s.	9.4	4.2			10			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.00	762.1	30.04	763.1	69.1	20.6	76	ne.			2		7			0	0		
San Salvador, Congo	28.05	712.5	29.87	758.7	81.9	27.7	66	nw.			1		9			0	0		
Serra da Estrella	25.47	640.9	30.42	772.7	31.6	— 0.2	96	nw.	9.8	4.4			3			0	0	foggy	
RUSSIAN.																			
Akmolinski	28.43	722.2	29.61	752.2	0.9	—17.3	95	w.	27	12		3 ck	0			0.004	0.1	light clouds	Major K. Lasarew.
Archangel	30.00	762.1	30.02	762.6	— 5.4	—20.8	86	s.	4	2			10			0	0		Capt. Sseliwerstow
Ashurada	30.21	767.4	30.12	765.0	42.6	5.9	87	nnw.	9	4			10 n			0.295	7.5		
Astrakhan	30.39	772.0	30.31	769.9	13.1	—10.5	53	nw.	7	3		0	0			0	0		Capt. Wisganow.
Baku	30.30	769.6	30.25	768.4	35.2	1.8	93	nnw.	13	6			10 kn			0.035	0.9		
Barnaul	29.10	739.0	29.61	752.0	30.9	— 0.6	49	se.	9	4			10			0	0		Meteorological Office.
Bielosersk	29.65	753.0	30.16	766.1	5.7	—14.6	70	ese.	4	2		3 0	0			blank	blank	light clouds	
Dorpat	29.45	748.0	29.71	754.5	21.7	— 5.7	82	ese.	11	5			10 n			0.181	4.6		Observatory.
Ekaterinburg	28.53	724.6	29.58	751.3	— 0.4	—18.0	81	nnw.	16	7			10					snowing	Meteorological Obs'y.
Elissawetgrad	29.71	754.6	30.19	766.7	28.6	— 1.9	64	s.	9	4			10 s;n			0	0		
Kasan	29.77	756.1	30.67	703.8	0.9	—17.3	79	nw.	16	7			0			0	0		Observatory.
Kem	29.94	760.5	29.99	761.8	9.5	—12.5	85	s.	4	2			10 n			0	0		
Kertch	30.24	768.0	30.20	768.6	29.5	— 1.4		calm	0	0		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.32	744.8	30.00	761.9	27.1	— 2.7	89	sse.	20	9			10 n			0.165	4.2	snow-drift	Observatory.
Koslov	29.72	754.9	30.28	769.2	2.7	—16.3	55	sw.	4	2			0			0.039	1.0		
Lgov	29.01	752.1	30.25	768.4	11.7	—11.3	79	s.	27	12			10			inap.	inap.	light snow	R. I. Seaweljew, Engin'r.
Libau	29.57	751.1	29.60	751.7	37.8	3.2	90	w.	7	3			10			0.204	6.7		[illegible]
Lugan	30.10	764.5	30.32	770.2	15.1	— 9.4	40	se.	9	4			7			0	0	light clouds	Meteorological Obs'y
Moscow	29.67	753.7	30.21	767.4	5.4	—14.8	66	wsw.	2	1		0	0			0	0		Meteorological Obs'y
Nertschinsk	28.01	711.5	30.58	776.6	0.7	—17.4	86	calm	0	0			0			0	0		
Nikolaiev	30.13	765.3	30.20	767.1	32.0	0.0	71	se.	18	8			10 n			0	0		Capt. Kurdakow.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
S. S. Assyrian Monarch, N. 42° 34′, W. 53° 32′†	29.94	760.5	49	9.4		se.			6		7		se.	0	0	high	se.	fair.
S. S. Alvo, Leogane Pt, Hayti, W. I*			72	22.2		var.			0–2		4		calm	3 h'r	3 h'r	short	w.	fine.
S. S. Alleghany, Vineyard Sound, Mass †	30.14	765.5	18	— 7.8		nnw.			9		0			8 h'r	8 h'r			clear.
S. S. Ailsa, N. 12° 55′, W. 82° 25′			79.2	26.2	91	nne.			3		3		ne.	0	0	sm'h		fine.
S. S. Arizona, N. 41° 18′, W. 64° 55′	29.78	756.4	34	1.1		w.			7		10		w.	4 h'r	4 h'r	high	wnw.	overcast.
Schr. Arthur Burton, Fernandina, Fla†	30.13	765.3				ene.			1		3		ene.	0	0	sm'h		fine.
S. S. Alps, N. 27° 34′, W. 73° 56′ *†	30.15	765.8	74	23.3		nne.			2		8		nw.	rain	rain	chop	nw.	
S. S. Adriatic, N. 40° 46′, W. 71° 36′						n.			6				nw.			sm'h	n.	clear.
S. S. Anchoria, N. 54° 58′, W. 14° — ††	30.04	763.0				n.			3		3		nw.	shr's	shr's	mod.	w.	fine.
S. S. British Crown, N. 40° 00′, W. 64° 53′†	29.70	754.4	49?	9.4?		wnw.			7		10			3 h'r	3 h'r	h'vy	con.	overcast.
S. S. Circassian, N. 42° 30′, W. 52° 50′	29.99	761.7	42	5.6	91	se.			3		10		se.			2	se.	overcast
S. S. Canada, (Br) N. 41° 05′, W 60° 51′†	29.60	751.8	43	6.1	100	w.			8		8	nw.	w.	shr's	shr's	h'vy	cross	cloudy.
S. S. Canada, (Fr) N. 42° 57′, W. 48° 50′	30.15	765.8	32.0	0.0		s.			3	ck		s.		o	o	sm'h		clear
S. S. Chalmette, Algiers, La			44	6.7		n.			6		3		nw.	o	o			clear.
S. E. J. Spicer, N 38° 00′, W. 65° 46	29.93	760.2	54	12.2	87	wnw.			7		10		s;nw.	8 h'r	8 h'r	high	s.	cloudy.
S. S. France, N. 43° 10′, W. 52° 25′ *†	29.92	760.0				se.			5		4		se.	o	o	sm'h	se.	clear.
S. S. Frisia, N. 40° 00′, W. 69° 12′			36	2.2		nnw.			4		2		n.	4 h'r	4 h'r	cross	var.	clear.
S. S. Grecian, N. 43° 14′, W. 67° 40′	29.85	758.2	18	— 7.8	84	nw.			8		8		nw.	4 h'r	4 h'r	high	nw.	cloudy.
Bg. George, N. 38° 50′, W. 70° 48′ *†	30.15	765.8				nw.			7		10		nw.	h'vy	h'vy	cross	var.	squally.
S. S. Hohenstaufen, N. 42° 36′, W. 50° 35′	30.13	765.3				sse.			6		8		s.	o	o	r'gh	s.	overcast.
S. S. Helvetia, N. 41° 09′, W. 62° 19′			51	10.6	100	w.			8		10		w.	hail	hail	con.		threatening.
Bk. Idaho, N. 23° 28′, W. 84° 06′ *†	30.08	764.0				ne.			3		2		ne.	½ h'r	½ h'r	long	nw.	clear.
S S. Iowa, N. 42° 49′, W. 49° 03′ †	30.20	767.1	45	7.2		sse.			4		2		sse.	o	o	sm'h	sse.	clear.
Schr. Jennie N. Huddell, Bald Head, N C†	30.21	767.3	42	5.6		nne.			5		0			o	o	sm'h		clear.
Bg. L. & W. Armstrong, N. 36° 54′, W. 66° 12′ †	29.98	761.5				wnw.			6–7		8		w.	1 h'r	1 h'r	high	s.	cloudy.
S. S. Lessing, N. 47° 28′, W. 27° 46′	29.80	756.9	57	13.9		sse.			6		10		s.	½ h'r	½ h'r	r'gh	ssw.	cloudy.
S. S. Mentmore, N. 42° 20′, W. 51° 08′ *†	30.16	766.1				s.			4		10			o	o	sm'h		cloudy.
S. S. Neckar, N. 48° 51′, W. 23° 59′	29.94	760.5	53.0	11.7	80	ssw.			5–6		6		sw.	sh'rs	sh'rs	mod.	sw.	cloudy.
S. S. Orinoco, N. 33° 05′, W. 65° 08′			66	18.9		nw.			4		5		nw.	2 h'r	2 h'r	mod.	ssw.	fair.
S. S. Oregon, (Br.) N. 50° 48′, W. 18° 43′ *	30.06	763.5	50	10.0		w.			4		8		w.	4 h'r	4 h'r	hv'y	wnw.	fair.
S. S. Ohio, (Am.) N. 42° 32′, W. 49° 50′ *†	30.19	766.8	38	3.3	100	sse.			3		9		sw.	o	o	sm'h	s.	cloudy.
S. S. Pennsylvania, N. 39° 55′, W. 61° 00′			50	10.0	100	wnw.			6		5		w.	3 h'r	3 h'r	mod.	w.	fair.
S. S. Polynesian, N. 53° 28′, W 19° 07′	30.02	762.5	47	8.3		wsw.			2		8		sw.	o	o	mod.	wsw.	cloudy.
S. S. P. Caland, N. 49° 04′, W. 22° 11′			51	10.6	93	ssw.			4		9		sw.			4	wnw.	squally.
S. S. Rhein, N. 47° 47′, W. 32° 40′	29.75	755.6				wsw.			5		1		sw.	6 h'r	6 h'r	sm'h	sw.	squally.
S. S. Rhynland, New York, N. Y	30.18	766.6	23	— 5.0	60	wnw.			4		10			4 h'r	4 h'r			rainy.
S. S. Scandinavian, N. 52° 58′, W. 23° 17′	29.97	761.2	47	8.3		sw.			2		10		sw.	6½h'r	6½h r	mod.	wsw.	drizzling.
S. S. Switzerland, N. 40° 02′, W. 70° 45′ *†	30.09	764.3				wnw.			2		5		n.	o	o	r'gh	nw.	fair.
S. S. Samaria, N. 49° 00′, W. 28° 00′	29.73	755.1	53	11.7		se.			4		10		s.	5 h'r	5 h'r	mod.	sse.	gloomy.
S. S. Salier, N. 40° 30′, W. 70° 25′*	30.06	763.5				ne.			6		2		ne.	4 h'r	4 h'r	cross		fine.
S. S. Valencia, Puerto Cabello, Venezuela †	30.03	762.7	75	23.9	81	wsw.			1		3		e.	o	o			fair.
S. S. Belgenland, off Portland, Eng			49	9.4	93	w.			5				w.	o	o	long	w.	clear.
S. S. Pennland, N. 45° 24′, W. 42° 00′*	29.97	761.2	42	5.6		n			6		8		n.	12 h'r	12 h'r	high	n.	cloudy.
Schr. Adda Doane, N. 18° 24′, W. 76° 15′†	30.10	764.5				calm			0		1		ese.	o	o	mod	se.	clear
Bg. Alcira, N. 28° 40′, W. 73° 43′			70	21.1		ne.			2		10			1 h'r	1 h'r	short	cross	overcast.
Bk. Chas. Stewart, Barcelona, Spain *†	30.12	765.0				ne.			2		5		e.	o	o	mod.	s.	fair.
Bk. Cato, N. 41° 21′, W. 9° 20′†	30.39	771.9	56	13.3	87	nnw.			2		1		nnw.	o	o	long	nw.	fair.
S. S. D. J. Foley, N. 23° 10′, W. 74° 25′*†	30.08	764.0	81	27.2	93	sse.			2		0			o	o	sm'h		clear.
S. S. Labrador, N. 49° 43′, W. 7° 20′ *†	29.84	758.0	50.0	10.0		wsw.			5		3		w.	12 mi	nutes	large	wsw.	clear.
S. S. Habsburg, N. 49° 54′. W. 10° 28′	29.96	761.0				nw.			6		5		nw.	2 h'r	2 h'r	hv'y	nw.	fine.
S. S. New York, N. 28° 00′, W. 78° 30′*†	30.10	764.5	70	21.1		ese.			4		2		se.	o	o	sm'h		clear.
S. S. Pavonia, off Queenstown, Ireland	29.81	757.2	50	10.0		wsw.			5		8		w.	2 h'r	2 h'r	mod	wsw.	cloudy.
S. S. Rialto, N. 49° 37′, W. 18° 38′			52	11.1		wsw.			5		5		w.	o	o	mod	nw.	fair.
Bk. Saga, Doboy, Ga †	30.15	765.9	49	9.4					1–5		0			o	o			clear.
S. S. Vaderland, N. 39° 47′, W. 75° 00′	30.20	767.0	28	— 2.2		nnw.			6		7		n.	8 h'r	8 h'r	mod.		
S. S. Virginian, N. 50° 11′, W. 15° 20′ *	30.02	762.5	52	11.1		sse.			2				sse.	o	o	sm'h		
S. S. Wieland, N. 41° 41′, W. 56° 36′ *	29.64	752.8	48	8.9		sw.			6		9		sw.	o	o	r'gh	sw.	cloudy.
S. S. Weser, N. 49° 38′, W. 10° 15′			50.0	10.0		nw.			6		5		nw.	4 h'r	4 h'r	r'gh	wnw.	fair.
S. S. Westphalia, N. 49° 36′. W. 16° 50′			56	13.3	87	wsw.			6		6		w.	6 h'r	6 h'r	long	w.	fair.
S. S. St. Laurent, N. 49° 50′, W. 7° 55′	29.86	758.5	53.6	12.0		wnw.			4		2		nw.	2 h'r	2 h'r	r'gh	wnw.	clear.
U. S. Navy Yard, Portsmouth, N. H *	29.96	761.0	11	—11.7	80	nw.	21	9.4			0			1.1	26.			clear.
U. S. S. Alliance, St. Thomas, W. I	30.11	764.8	74	23.3	76	ene.			2		8		e.	o	o			cloudy.
U. S. S. Kearsarge, Palermo, Sicily	30.08	764.0	64	17.8	62	ene.			2		0							clear.
U. S. S. Lancaster, Pale mo, Sicily	30.12	765.0	58	14.4	100	ene.			2		0			o	o	sm'h		clear.
U. S. S. New Hampshire, Newport, R. I	30.10	764.5	18	— 7.8		nw.			5		2							fair.
U. S. S. Portsmouth, Fortress Monroe, Va	30.25	768.3	30	— 1.1	89	nnw.			2		2		n.					clear.
U. S. S. Powhatan, N. 37° 31′, W. 74° 33′	30.28	769.1	32	0.0	90	nw.			5		2		nw.			r'gh	nw.	fair.
U. S. S. Quinnebaug, Leghorn, Italy	29.96	761.0	59	15.0	76	s.			2		5		s.			sm'h		fair.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.08	764.0	73	22.8	85	calm			0		2		calm	light	light	sm'h		clear.
U. S. S. Trenton, N. 32° 50′, E. 28° 48′	30.01	762.2	68	20.0	56	nw.			4		2		nw.			mod.	nw.	clear.
U. S. S. Vandalia, Curacoa, W. I	30.03	762.7	76	24.4	82	e.			2		2		e.					fair.
U. S. S Yantic, N. 35° 22′, W. 75° 30′	30.31	769.9	41	5.0	74	nnw.			4		5					mod.	nw.	fair.
H. M. S. Alexandra, N. 33° 30′, E. 32° 15′	29.96	761.0	57	13.9	100	nnw.			3		5	nnw.				2	nnw.	d. clouds.
H. M. S. Boadicea, Cape Coast Castle, Gold Coast, Africa			82	27.8	79	ssw.			1		5	ssw.				1	ssw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.04	763.0	64	17.8	65	nw.			4		4	ene.						d. clouds.
H. M. S. Himalaya, N 40° 40′, W. 63° 40′	29.77	756.1	41	5.0	91	w.			6–8		9					7	wnw.	squally.
H. M. S. Minotaur, Terranova, Sicily	30.03	762.7	58	14.4	70	ese.			1		7	wnw.						d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.88	758.9	88.0	31.1	78	sse.			4		5			o	o	3	se.	d. clouds
S. S. Lord Clive, N. 46° 17′, W. 36° 30′						nnw.			6		10		n.	sh'rs	sh'rs	str'g	nw.	rainy.
S. S. Carroll, N. 43° 00′, W. 67° 05′			20	— 6.7		nw.			6		8		nw.	h'vy	h'vy	long	nw.	cloudy.
S S. Llandaff City, N. 48° 56′, W. 15° 09′			55	12.8		wnw.			5		5		w.	o	o	sm'h		fair.
S. S. Scythia, N. 42° 48′, W. 48° 02′			42	5.6	100	sse.			2		4		sse.	o	o	sm'h		clear
S. S. Bohemia, N. 41° 55′, W. 51° 11′						ssw.			5–6		10		ssw.	o	o	h'vy	ssw.	overcast.
S. S. Rugia, N. 48° 20′, W. 23° 37′			54	12.2		s.			5–6		10		s.	o	o	mod.	s.	cloudy.
S. S. Nessmore, N. 38° 02′, W. 70° 25′			40	4.4	82	n.			6		5		n.	8 h'r	8 h'r	h'vy	se.	gloomy.
S. S. Archimedes, (Br) N. 50° 12′, W. 3° 15′	29.72	754.9				wnw.			6		2		wnw.	½h'r	½hr	mod.	wnw.	fair.
S. S. Olbers, N. 46° 50′, W. 8° 20′	30.14	765.5	52	11.1	79	w.			6		7		sw.			6	w.	showery.
S. S. Archimede, (It.) N. 34° 47′, W. 19° 55′			66	18.9		sse.			3		2		se.	o	o	r'gh	var.	clear.
S. S. Picqua, Corunna, Spain			50	10.0	100	sw.			2				w.	4 h'r	4 h'r			cloudy.
S. S. Dominion, N. 42° 45′ W. 64° 53′*†	29.72	754.9	24	— 4.4		wnw.			6		10		wnw.			r'gh	wnw.	cloudy.
S. S. Texas, N. 35° 48′, W. 67° 52′			52	11.1	?	n.			2		4?			o	o	high	sw.	cloudy.?
S. S. Denmark, London, Eng †	29.58	751.3	52	11.1	100	wsw.			3									
S. S. England, N. 50° 29′, W. 18° 14′	30.10	764.5				sw.			4		5		sw.	o	o	mod.	sw.	d. clouds.
S. S. Erin, New York, N. Y †	30.22	767.6	17	— 8.3		w.			5		0			8 h'r	8 h'r			clear.
S. S. Strassburg, N. 20° 54′, W. 22° 40′	30.13	765.3	70.0	21.1	75	ene.			4		7		ene.	o	o	3	ene.	cloudy.
S. S. City of Augusta, N. 33° 22′, W. 78° 04′						nne.			7		2		ese.	o	o	sm'h		clear.
S. S. Muriel, Dominica, W. I			76	24.4		ene.			3		0			o	o	sm'h		clear.
S. S. Waesland, Antwerp, Belgium	29.53	750.0	48	8.9		ssw.			6		10		sw.	o	o			cloudy.
S. S. Westerniand, N. 49° 28′, W. 19° 50′	30.13	765.3	55	12.8	93	ssw.			4		8		ssw.	o	o	light	sw.	cloudy
S. S. W. A. Scholten, Rotterdam, Netherlands	29.52	749.8	44.6	7.0	96	sw.			5		8		w.	4 h'r	4 h'r			hazy.
S. S. State of Nebraska, N. 51° 09′, W. 27° 47′*†	29.80	756.9	48	8.9		se.			4		10		s.				n.	rainy.
S. S. Saxon, Cape Cod, Mass *†	30.01	762.2	20	— 6.7		nw.			3		0			o	o	sm'h		fine.
S. S. Celtic, Liverpool, Eng			39	3.9		nw.			4		6		wnw.	o	o			fine.
S. S. Republic, N. 50° 48′, W. 16° 42′*†	30.06	763.5	53	11.7	93	wnw.			4		7		wnw.	sh'rs	sh'rs	mod.	wnw.	showery.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.*
										Amount and kind.		Direction.						
						Direction.	Velocity		Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Lepanto, N. 47° 12′, W. 7° 06′			58	14.4		w.			6		4?		n.	0	0	h'vy	var.	cloudy.?
S. S. Romano, Hull, Eng			40	4.4		w.			3		5		w.	0	0			hazy
S. S. Salerno, N. 44° 11′, W. 42° 42′			47	8.3		nnw.			3		5		nnw.	0	0	mod.	nnw.	fair.
S. S. Antonio Lopez, Barcelona, Spain	30.14	765.5	52.5	11.4	69	calm			0	9 c				2 h'r	2 h'r			cloudy.
Bgt. Achsah, N. 19° 03′, W. 58° 21′ †	30.18	766.6	76	24.4		e.			5		2		e.	0	0	long	ne.	clear.
S. Armenia, N. 43° 28′, W. 30° —′*	29.85	758.2	56	13.3	78	nnw.			6		10		n.	1 h'r	1 h'r	mod.	wsw.	rainy.
S. S. Bracadale, N. 46° 15′, W. 30° 00′			56	13.3		sw.			6		4		sw.	2 h'r	2 h'r	high	wsw.	squally.
Bk. Benjamin Dickerman, N. 18° 00′, W. 54° 00′*†	30.16	766.1	74	23.3		e.			5		1?		ese.	0	0	long	ene.	cloudy.?
S. Cornelius, N. 41° 38′ W. 45° 27′ *†	30.33	770.4	47.8	8.8		n.			1		4?			0	0	long	nne.	cloudy.?
S. Dora, N. 41° 57′, W. 42° 00′†	30.19	766.8	46.4	8.0		wnw.			4		4		nnw.	2 h'r	2 h'r	light	nne.	blue sky.
S. David Stewart, Orchilla Island, Venezuela			80	26.7		e.			4		3		e	0	0			
Schr. Edith R. Seward, N. 16° 54′, W. 55° 28′			77	25.0		ne.			3		4		ene.	0	0	long	ne.	clear.
Bk. Fred W. Carlon, Progreso Roads, Mexico			80	26.7		calm			0		2			2 h'r	2 h'r	mod.	n.	squally.
Bk. Gloire, N. 36° 57′, W. 73° 00′			38	3.3		n.			4		4		n.	2 h'r	2 h'r	short	n.	fair.
Bk. Godeffroy, N. 9° 02′, W. 43° 56′	30.00	762.0	76.6	24.8	87	nne.			5		7			light	light	mod.	ne.	cloudy.
Bk. George Davis, N. 44° 39′, W. 31° 08′*†	29.74	755.4				nw.			4				w.	14 h'r	14 h'r		nw.	cloudy.
Bk. Galeon, N. 52° 25′, E. 2° 10′†	29.40	746.7	45	7.2		w.			5		10		nw.	light	light	r'gh	sw.	misty.
Bk. Hattie G. McFarland, N. 14° 05′, W. 79° 34′†	30.04	763.0	78	25.6		e.			5		3		e.	0	0	r'gh	se.	fine.
S. Henry, N. 44° 52′, E. 14° 12′ *	30.01	762.2	54.1	12.3		sse.			3									
Bg John Wesley, N. 37° 40′, W. 74° 47′						sw.			7		10		sw.	8 h'r	8 h'r	r'gh	se.	cloudy.
Schr. Jas. Slater, N. 37° 55′, W. 64° 25′						nw.			6		10		wnw.	4 h'r	4 h'r	r'gh	s;nw	
Bg. John Welsh, jr., N. 30° 00′, W. 69° 54′†	30.11	764.8				nne.			4				ne.			long	nuw.	
Schr. Jenny Greenbank, N. 37° 36′, W. 71° 20′*	30.15	765.8	39	3.9		nw.			7		6		nw.	rain	rain	r'gh	nne.	cloudy.
S. S. Laurel, Key West, Fla †	30.09	764.3	67	19.4		n.			2-3		2		nne.	sh'rs	sh'rs			clear.
Bg. L. F. Munson, Bahama Bank, W.I.			73	22.8		se.			4		6		sw.	0	0			fair.
S. S. Madrid, N. 49° 36′, W. 5° 18′			52	11.1	85	w.			6		3		w.	0	0	r'gh	nuw.	fair.
Schr. Minnie A. Bousall, Brunswick, Ga *†	30.12	765.0	69	20.6		e.			1				ne.	0	0			fair.
Schr. Maggie Abbott, N. 20° 20′, W. 72° 55′ *†	30.05	763.3				ese.			3		2		se.	0	0			clear.
Schr. Norena, N. 17° 45′, W. 66° 15′						ene.			2		4		ene.	0	0	sm'h		fine.
Bk. Orpheus, N. 45° 27′, W. 29° 58′ *	29.84	757.9	48	8.9		ssw.			2		8 k		nw.			sm'h		drizzling.
Bk. Sunbeam, N. 38° 45′, W. 49° 27′*†	30.29	769.4	56	13.3	87	sse.			5		9		s.	0	0	mod.	e.	cloudy.
Bgt. Sunlight, N. 17° 25′, W. 55° 38′ †	30.08	764.0				e.			3		6		e.	0	0	mod.	e.	fair.
S. St. David, N. 28° 13′, W. 38° 55′ *†	30.16	766.1	71.3	21.8	75	nne.			6		4		nne.	3 h'r	3 h'r	long		rainy.
S. Stephen D. Horton, Antwerp, Belgium †	29.67	753.6				sw.			6		9		wsw.	4 h'r	4 h'r			cloudy.
S. Vincenzo Accame, N. 36° 30′, W. 44° 46′†	30.39	771.9	60.8	16		ne.			3		6		ne.	0	0	rg'h	nne.	fair.
Bk. Western Chief, N. 39° 41′, W. 68° 17′						nw.			7		10		nw.			8	nw.	cloudy.
S. S. City of Alexandria, N. 31° 12′, W. 80° 24′*†	30.20	767.1	56	13.3		s.			1								nw.	d. clouds.
S. S. Strathleven, N. 48° 59′, W. 15° 05′ *	30.11	764.8	52.0	11.1	93	w.			3		7		w.			4	w.	d. clouds.
S. Frank N. Thayer, N. 39° 17′, W. 63° 29′ *	29.73	755.1				wnw.			7									clearing.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.99	761.7	66	18.9	84	n.			1		10		w.					cloudy.
H. M. S. Amethyst, S. 38° 05′, W. 50° 40′	29.87	758.7	65.5	18.6	84	w.			2		4	sw.				1	w.	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	29.99	761.7	71	21.7	80	s.			2		4	se.						d. clouds.
H. M. S. Sylvia, S. 47° 37′, W. 64° 43′	29.66	753.4	56	13.3	87	nw.			2		4					2	nw.	d. clouds.
H. P. M. S. Tejo, Noki, Guinea	30.09	764.3	85.1	29.5	92	calm			0		9			0	0			overcast.
H. P. M. S. Bengo, S. 3° 43′, W. 7° 31′	29.96	761.0	84.2	29.0	85	sse.			3		7		sw.	0	0	3	sw.	d. clouds.
S. S. Hevelius, S. 34° 49′, W. 54° 05′*†	30.07	763.8	79	26.1		wsw.			1		4		w.	0	0			clear.
S. S. Rosse, S. 15° 26′, W. 38° 31′	29.87	758.7	82	27.8	78	ne.			4		7		ne.	0	0			fine.
S. S. Leipzig, S. 5° 09′, W. 33° 11′ *	30.02	762.5	83.0	28.3	87	ese.			5		4		ese.	0	0	sm'h	ese.	fair.
Bk. Adelaide, S. 12° 32′, W. 35° 24′ *†	30.03	762.7				ene.			4		1		ese.	0	0	light	e.	clear.
Bk. Celestina, S. 29° 40′, W. 42° 28′ *†	29.80	756.9				sw.			4		4		wsw.	0	0	mod.	sw.	clear.
S. S. George S. Homer, S. 18° 10′, W. 31° 29′*†	30.15	765.8				ne.			1		4		nne.	4 h'r	4 h'r	long	sw. e.	squally.
S. Grecian, S. 25° 40′, W. 25° 57′ †	30.16	766.1	79	26.1	78	n.			4		2		n	0	0	sm'h		clear.
S. Henry Failing, S. 24° 51′, W. 23° 45′*†	30.10	764.5	80	26.7	90	nne.			4		3		ne.	2 h'r	2 h'r	sm'h	wsw.	clear.
Bk. Horace Scudder, Banana Creek, Guinea *†	30.10	764.5	88	31.1		wsw.			2		2		w.	0	0			clear.
S. Ismir, S. 56° 30′, W. 59° 40′ *†	28.63	727.2				w.			4		9		w.	5 h'r	5 h'r	rg'h	w.	stormy.
Bkt. Levanter, Montevideo, Uruguay*	29.97	761.2	69	20.6		n			1		10		w.	0	0			cloudy.
Bk. Winifred, S. 1° 50′, W. 36° 42′*†	30.00	762.0								c			e.	0	0		se.	
S. S. Teniers, S. 29° 14′, W. 45° 38′	29.88	758.9	74.7	23.7	76	sw.			4		4 k		n.	0	0	2	s.;w.	d. clouds.
S. Orealia, S. 41° 14′, E. 17° 17′*	29.76	755.9				wsw.			6		8		wsw.	c	0	mod.	w.	cloudy.
District No. 3—North Pacific.																		
U. S. S. Alert, Nagaski, Japan	30.23	767.8	40	4.4	73	n.			2		8		n.					cloudy.
U. S. S. Essex, Canton, China	30.39	771.9	56	13.3	69	n.			1		2							clear.
U. S. S. Hartford, N. 21° 13′, W. 157° 18′	30.03	762.7	76	24.4	95	sse.			2		5		e.	0	0	sm'h		fair.
U. S. S. Juniata, N. 32° 23′, E. 129° 05′	30.24	768.1	41	5.0	91	nnw.			5		8		nnw.	light	light	mod.	nw.	cloudy.
U. S. S. Monocacy, Min river, China	30.45	773.4	49	9.4	44	ne.			3		2		calm			sm'h		fair.
U. S. S. Palos, Tientsin, China	30.39	771.9	32	0.0		s.			1		0							clear.
H.M.S. Audacious, Victoria harbor, Hong Kong, China	30.34	770.6	60	15.6	94	calm			0		2	ne.						blue sky.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′			58	14.4	69	ne.			3		4					2		d. clouds
H. M. S. Champion, Shanghai, China	30.60	777.2	40	4.4	64	nw.			1		0							blue sky.
H. M. S. Flying Fish, N. 24° 26′, E. 118° 04′	30.42	772.7	55	12.8	50	e.			1-4		0					1		squally.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.92	760.0	84.5	29.2	66	nnw			2		9							misty.
H. P. M. S. Tamega, Macao, China	30.39	771.8	56.3	13.5	51	nnw.			2		0			1 h'r	1 h'r			blue sky.
S. S. Newbern, Magdallena Bay, Lower Cal *†	30.09	764.3	61	16.1	82	nw.			3		2		nw.	0	0		wsw.	clear.
S. S. Oregon, Columbia river, Oregon			47.5	8.6	100	ssw.			2		10		w.					misty.
S. S. Alameda, Honolulu, Sandwich Ids †	30.04	763.0	68	20.0		nne.			1		0			0	0			clear.
S. S. Ancon, San Francisco, Cal	30.21	767.3	52	11.1	86	nw.			1		0			0	0			clear.
S. S. City of Chester, Point Bonita, Cal.†	30.25	768.3	52	11.1	86	e.			4		0			0	0	sm'h		clear.
S. S. Queen of the Pacific, Seattle, Wash. Ter	30.27	768.8	50	10.0	93	sw.			1		4		sw.	2 h'r	2 h'r			fair.
S. S State of California, Portland, Oregon			50	10.0	100	calm			0		10							cloudy.
S. S Eureka, N. 57° 03′, W. 135° 16′			37	2.8	90	ese.			4		10			18 h'r	18 h'r	sm'h		cloudy.
S. S. Australia, N. 36° 09′, W. 128° 34′			52	11.1	86	nw.			4		6		w.	0	0	long	w.	dense fog.
S. S. City of Pekin, N. 34° 45′, W. 134° 45′†	30.22	767.6	59	15.0	82	e.			3		2		e			long	w.	clear.
S. S. City of Rio de Janeiro, N. 28° 19′, E. 127° 00′†	30.29	769.4				n.			6		6		nnw.			large	n.	fair.
S. S. City of Sydney, N. 24° 36′, W. 152° 18′ *†	30.10	764.5	73	22.8	76	se.			2		3 k		se.			h'vy	w.	clear.
S. S. Colima, Panama, Panama †	30.01	762.2	75	23.9	81	wnw.			2		7		nw.	0	0			fair.
S. S. San Blas, N. 21° 52′, W. 105° 48′†	30.03	762.7	71	21.7	90	n.			2		5		n.	0	0	h'vy	nw.	fair.
S. S. San Jose, N. 17° 44′, W. 102° 25′			77	25.0		n.			1		2		ne.	0	0	small	wsw.	clear.
S. S. Benalder, Kobe, Japan *…	30.04	763.0	36	2.2	70	wnw.			2-3		0			12 h'r	12 h'r			clear.
S. St. Francis, N. 34° 00′, W. 134° 00′			57	13.9	81	ene.			4		1			0	0	h'vy	nw.	clear.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, Callao, Peru *	30.01	762.2	71	21.7	100	se.			2		5		calm			sm'h		fair.
H. M. S. Constance, S. 27° 50′, W. 83° 03′	30.21	767.3	69	20.0	85	sse			3							3	sse.	d. clouds.
H. M. S. Espiegle, S. 46° 05′, E. 166° 45′	29.66	753.4	50	10.0	65	n.			3		2							d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.76	755.9	64.3	17.9	84	sw.			3		10					sm'h		raining.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.91	759.7	55	12.8	63	nw.			4		6							d. clouds.
S. S. Zealandia, Sydney N. S. W	30.25	768.3	70	21.1	66	se.			5		4			0	0			fine.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.97	761.2	63	17.2		ne.			1		0					sm'h		
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.92	760.0	73	22.8	67	ne.			3		3	w.						d. clouds.
H. M. S. Tourmaline, S. 12° 16′, E. 48° 40′	29.92	760.0	84	28.9	79	ssw.			3		3					sm'h		d. clouds.

International Chart I. February 24, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.
W.B.Hazen, Chief Signal Officer.
Signal Office 1ith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 25, 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.23	767.8	61.5	16.4	81	se.			1		6			0.197	5.0		Roziers.
Algiers			30.16	766.1	57.9	14.4	87	wnw.			2		2			0.232	5.9		Thève.
La Galle			30.07	763.7	61.5	16.4	75	ne.			1		1			0	0		Fonfrède.
Tunis			30.09	764.3	51.1	10.6	89	nw.			3		5			0	0		Delord.
Geriville					51.8	11.0	75	n.			2		3			inap.	inap.		Forfert.
Laghouat			30.24	768.0	59.4	15.2	74	calm			0		0			0.378	9.6		Abraham.
Biskra			30.18	766.6	64.4	18.0	82	calm			0		2			0.094	2.4		Gouson.
Australian.																			
Adelaide, South Australia			30.21	767.3	60.0	15.6	64	s.	13	5.8			10 k			0	0	cloudy	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.45	748.0	29.64	752.8	50	10.0	60	ssw.	10	4.5			2		sw.	0.07	1.8	clear	Com. J. Shortt, R.N.
Melbourne, Victoria	29.88	758.9	29.97	761.2	55.0	12.8	77	w.	12	5.4			7			0.01	0.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.25	743.0	29.81	757.1	46.0	7.8	77	ne.			2		10			0.756	19.2		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.88	733.6	29.65	753.1	47.5	8.6	58	wsw.	13.6	6.1			10			0.004	0.1		Dr. Wierzbiski
Eperies	28.86	733.1	29.76	755.8	41.5	5.3	85	calm			0		10			0.039	1.0	foggy	Julius Mikolik.
Gratz	28.58	725.9	29.85	758.1	44.6	7.0	75	w			1		8			0.189	4.8		Andreas Rospini.
Hermannstadt	28.34	719.8	29.76	755.8	55.9	13.3	58	sse.			3		6			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.47	723.2	29.84	757.9	40.6	4.8	76	wsw.			2		6			0.122	3.1		The Staff.
Lemberg	28.72	729.4	29.72	755.0	40.1	4.5	92	se.			1		10			0.142	3.6		Dr. T. Stanecki.
Pola	29.72	754.9	29.84	757.8	52.2	11.2	75	nw.			2		3			0.055	1.4	raining	I. R. Hydrographic Office.
Szathmar	29.28	743.7	29.75	755.7	44.4	6.9	90	w.			5		10			0.142	3.6		Joseph Midlinszky, S. J
Szegedin	29.53	750.0	29.82	757.3	44.6	7.0	91	sw.			1		10			0.209	5.3		Karl Stancel.
Trieste	29.77	756.1	29.87	758.6	50.4	10.2	83	nw.			1		8			0.307	7.8		Royal Academy.
Vienna	29.11	739.3	29.84	757.8	44.6	7.0	57	w			3		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.43	722.1	29.85	758.1	37.0	2.8	94	wsw.			2		5			0.591	15.0	rain & snow	
Brussels	29.63	752.6	29.84	757.9	39.2	4.0	94	wsw.			2		10		w.	0.193	4.9	raining	
Furnes	29.81	757.1	29.83	757.6	42.4	5.8	87	wnw.			1		10			0.031	0.8		
Maeseyck	29.67	753.6	29.80	756.8	39.2	4.0	89	wnw			1		7			0.283	7.2		
British.																			
Aberdeen	29.66	753.4	29.76	755.9	42.4	5.8	70	nw.	19	8.5			7			0.080	2.0	d. clouds	W. Boswell.
Bidston, Liverpool Obs'y			29.86	758.4	44.6	7.0	84	w.	35	15.6			3					blue sky	John Hartnup.
Bolton, Sharples	29.30	744.2	29.84	757.9	43.1	6.2	87	w.	18	8.0			8					raining	Thomas Mackereth.
Bradford, Yorkshire	29.42	747.3	29.82	757.4	45.1	7.3	78	nw.			2		9			0.02	0.5	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.04	763.0	30.07	763.8	80	26.7	66	ne.			3		3					d. clouds	Corp'l C. McGregor, A.H.C
Cardington					44.6	7.0	80	nw			0–6		7					d. clouds	John McLaren.
Chatham, School M. E.	29.70	754.4	29.87	758.7	46.7	8.2	72	w.			2		6					misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.85	758.2	30.08	764.0	47.8	8.8	78	wnw.			4		7					d. clouds	The Staff.
Fort Napier, Natal	27.47	697.7	29.78	756.4	87.0	30.6	55	e.			1		3					blue sky	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.94	760.5	29.98	761.5	43	6.1	83	w.			1		3			0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.21	767.3	30.30	769.6	58.4	14.7	86	e.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.72	754.9	29.89	759.2	46.9	8.3	68	nw.					4					d. clouds	The Staff.
Guernsey	29.77	756.1	30.07	763.8	47.5	8.6	78	nnw.			2		10					overcast	A. Collenette, F.R.M.S.
Kew, Observatory	29.87	758.7	29.91	759.7	46.2	7.9	65	nw.	15	6.7			8					d. clouds	The Staff.
Leicester, Museum	29.60	751.8	29.86	758.4	46.4	8.0	67	nw.			1		7					d. clouds	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.00	762.0	60.4	15.8	91	s.			2		9			0	0	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	29.99	761.7	30.04	763.0	65.5	18.6	?	sw.			1		8			blank	blank	overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.68	753.9	29.91	759.7	47.3	8.5	68	nw.			4		7					d. clouds	The Staff.
Plymouth	29.95	760.7	30.03	762.7	49.4	9.7	73	nw.			2		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.67	753.6	29.77	756.1	40.4	4.7	82						4					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.91	759.7	29.97	761.2	51.0	10.6	60	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.64	752.8	29.83	757.7	48.0	8.9	68	wnw.			3		2					d. clouds	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss					46.3	7.9	77	nw.			1.5		5					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	30.04	763.0	30.07	763.8	47.6	8.7	81	nw.	9	4.0			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.66	753.4	30.05	763.3	59.7	15.4	68	sw.	5.6	2.5		4 c	5 n	w.	sw.	0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.41	772.4	30.45	773.4	—12.0	—24.4		calm	0	0		0	4 n			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.36	771.1	30.40	772.1	7	—13.9	81	w.	4	1.8		5 c	0	calm		0.300	7.6	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.36	771.6	30.45	773.4	—13	—25.0	100	w.	2	0.9		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.94	760.5	30.15	765.8	10.3	—12.1	85	e.			1		10 n			inap	inap.	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.38	771.6	30.44	773.2	—14.0	—25.6		e.			1	0	0			0	0	blue sky	H. A. Johnson.
Father Point, Quebec*	30.36	771.1	30.38	771.6	1	—17.2	96	nw.	8	3.6		0	5 ks			0	0	clear	J. McWilliams
Fort Garry, Manitoba*	28.96	735.6	29.86	758.4	11	—11.7	100	nw.	15	6.7		0	0			0.20	5.1	clear	James Stewart.
Fredericton, N. B	30.41	772.4	30.49	774.4	— 3.9	—19.9	100	calm	0	0		10 cs	0			0	0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B	30.39	771.9	30.45	773.4	13	—10.6	80	ne.	6	2.7		0	8 ks			0	0	cloudy	J. Chipman Seeley
Granton, Ontario	28.81	731.8	29.98	761.5	20.3	— 6.5	96	calm	0	0			10 n			0.200	5.1	overcast	Jas. Grant.
Halifax, N. S*	30.31	769.9	30.45	773.4	8	—13.3	83	n.	4	1.8		2 c	2 ks			0.010	0.3	fair	A. Allison.
Hamilton, Ontario	29.51	749.5	29.94	760.5	26.2	— 3.2	87	e.			1	10 cs	0	e.		0.200	5.1	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.75	755.6	30.11	764.8	16	— 8.9	91	se.	1	0.4			10 n			0.03	0.8	light snow	A. P. Knight, M. A.
Little Glace Bay, N. S	30.27	768.8	30.31	769.9	14.0	—10.0	100	nw.	2	0.9		4 k	0			0	0	d. clouds	C. H. Rigby.
London, Ontario	29.00	736.6	29.96	761.0	20.8	— 6.2	93	calm			0		10 ks			0.100	2.5	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.69	703.3	30.04	763.0	32	0.0	92	nw.	1	0.4		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	27.85	707.4	29.88	758.9	22	— 5.6	92	nw.	5	2.2			10 ks		nw.	0.09	2.3	cloudy	Rev. J. M. Wellwood
Montreal, Quebec*	30.03	762.7	30.26	768.6	3	—16.1	91	e.	4	1.8			10 n			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.04	760.5	30.19	766.8	6.1	—14.4	80	e.				0	8 ks			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.27	743.4	30.02	762.5	13	—10.6	80	e.	8	3.6			10 n		e.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.36?	745.7?	30.17?	766.3?	11.7	—11.3	71	w.			1		fg.			0.11	2.8	snowing	Wm. O'Connor, M.A.
Port Arthur	28.91	734.3	29.64	752.8	21	— 6.1	84	ne.	1	0.4			10 n			0.26	6.6	light snow	W. P. Cooke.
Port Dover, Ontario	29.22	742.2	29.95	760.7	24	— 4.4	100	calm	0	0			10 n			0.05	1.3	threatening	H. Morgan.
Port Stanley, Ontario	29.27	743.4	29.95	760.7	23	— 5.0	100	ne.	1	0.4			10 n		e.	0.16	4.1	light snow	M. Payne.
Qu Appelle, N. W. T	27.55	699.8	29.87	758.7	32	0.0		w.	8	3.6		10 cs	0	nw.		0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.96	761.0	30.36	771.1	— 4	—20.0	68	calm	0	0		10 ck	0	w.		0	0	fair	Capt. Asse, R. N.
Rockliffe, Ontario*	29.65	753.1	30.18	766.6	—16	—26.7	86	e.	2	0.9		0	2 s		w.	0	0	fair	W. H. McIntyre.
St. Andrews, N. B	30.39	771.9	30.44	773.2	8	—13.3	96	ne.	4	1.8			10 n			0	0	cloudy	
St. John, N. B	30.31	769.9	30.47	773.9	6.0	—14.4	88	n.	8	3.6		2 cs	0	sw.		0.100	2.5	fair	G. Hutchinson.
St. Pierre, N. F			30.12	765.0	15.8	— 9.0		nw.			2								The Commandant.
Saugeen, Ontario*	29.20	741.7	29.97	761.2	16	— 8.9	96	se.	12	5.4			10 s			0	0	cloudy	
Stratford, Ontario	28.61	726.7	29.97	761.2	20.1	— 6.6	88	calm	0	0			10 s			0.200	5.1	snowing	W. McBride, M.A.
Sydney, C. B*	30.29	769.4	30.35	770.9	9	—12.8	73	nw.	8	3.6		8 c	0	w.		0.08	2.0	fair	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.58	751.3	29.99	761.7	24	— 4.4	92	e.	4	1.8			10 n			0.05	1.3	light snow	Magnetic Observatory.
Woodstock, Ontario	28.85	732.8	29.98	761.5	20.7	— 6.3	94	ne.	4	1.8			10 n			0.050	1.3	snowing	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.37	771.4	30.44	773.2	14	—10.0	73	e.	2	0.9		10 k	0	w.		0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.99	761.7	30.02	762 5	71.5	21.9	69	sw.				0	9 n			0.250	6.3	cloudy	I. Garfelt.
Cape Town, The Castle	29.92	760.0			69.0	20.6	53	se.				0	1 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			77	25.0	44									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.94	760.4	30.01	762.3	61.9	16.6	88	n.			1	10						cloudy	Samuel Redolez.
Iquique	29.97	761.1	29.99	761 8	66.9	19.4	81	sw.			2							cloudy	Rafael Moreno.
Niebla	29.68	753.8	29.78	756.5	57.9	14.4	76	e.			3		2 b		s.	0	0		Federico Köhling.
Punta Caldera	29.93	760 1	30.01	762.3	72.5	22.5	81	e.			1	6 c		e.				fair	Manuel Tobar.
Punta Corona	30.05	763.3	30.24	768.0							1	3 s		ne.		0	0	cloudy	Francisco Alvarado.
Valparaiso	29.88	758.9	30.02	762.4	59.7	15.4	89	n.			0.5		10					cloudy	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.31	769 9	30.34	770.5	35.1	1.7	74	se.	7.2	3.2		0	0			0	0	clear	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.31	744.5	29.36	745.7	39.2	4.0	87	nnw.	11	5			10					raining	Oversergent Fischer.
Fanöe	29.46	748.3	29.48	748.8	40.1	4.5	89	wnw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.55	750.6	29.60	751.7	7.2	—13.8	100	nw.			4		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.60	751.9	29.62	752.4	34.5	1.4		sse.			7–9		10						
Jacobshavn, Greenland	29.46	748.2	29.50	749.4	23.4	— 4.8		sw.			4		8					snowing	
Stykkisholm, Iceland	30.16	766.1	30.21	767.2	31.6	— 0.2	90	e.			4		0						A. O. Thorlacius.
Thorshavn	29.97	761.2	29.99	761.8	39.9	4.4	84	ne.	7	3.			7						Overloerer Bergh.
Upernavik, Greenland	29.04	737.6	29.09	738.8	8.4	—13.1		ssw.			7		10					snowing	
Vestervig	29.35	745.5	29.44	747.8	37.6	3.1	90	ne.			6		10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.98	761.5			63.5	17.5		w.	3.6	1.6		0	8 k			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.44	747.7	30.09	764 3	47.5	8.6	100	se.			1		10 n		nw.	0.252	6.4		M. Labroue, Director.
Alençon, Normal School	29.35	745.5	29.90	759.5	50.9	10.5	97	nw.			1	3 ck			se.	0.094	2.4	cloudy	M. Nicot, Director.
Arras, Normal School	29.62	752.4			40.6	4.8	67	w.			4		5		w.	0.059	1.5	cloudy	M. Ungerer, Director.
Avignon, Normal School	29.97	761.3	30.05	763.3	53.6	12	54	sse.			1		5		w.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.38	746.3	29.95	760.7	44.1	6.7	82	nw.			2		10		nw.	0.157	4.0	covered	M. Saillard, Director.
Beauvais, Normal School	29.68	753.8	29.95	760.7	44.6	7	71	w.			1		5		w.	0.114	2.9	cloudy	M. Frère Eugène Marlo.
Besançon, Normal School	28 98	736.2	29.89	759.2	43.5	6.4	91	sw.			2		10 n		ne.	1.02	26.	raining	M. Gobin, Director.
Bordeaux, Observatory	29.91	759.8	30.18	766.6	51.5	10.7	80	wnw.			1		10			0.228	5.8	covered	M. Rayet, Director.
Bourges, Normal School	29.48	748.9	30.04	763.1	48.2	9.	78	w.			1		kn		w.	0.024	0.6		M. Sauvageot, Director.
Brest, Naval Observatory	29.93	760.2	30.17	766.4	52.9	11.6	77	nw.			1		8		nw.	0.059	1.5		M. de Kermarée, Dir.
Caen, Normal School	29.95	760.7	30.02	762.6	49.3	9.6	92	e.			1		0			0.12	3.	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.58	751.4	29.91	759.6	43.3	6.3	91	w.			1		5		w.	0.091	2.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.34	745 3	29.87	758.6	43.5	6.4	67	w.			2		8		w.	0.31	8.	¾ covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.68	728 4	30.06	763.5	45.3	7.4	66	w.			2		10		nw.	0.287	7.3		M. Alluard, Director.
Cluny, Normal School	29.17	740.8	30.04	762.9	45.1	7.3	81	w.			1		10		w.	0.350	8.9	covered	M. de Villemontée, Dir.
Commercy, Normal School.	29.05	737.8	29.92	760.0	40.6	4.8	87	w.			1		5 kn	w.	w.	0.327	8.3	raining	Dr. Coulet, Director.
Gap, Normal School	27 42	696.5	29.99	761.7	47.3	8.5	46	nw.			1		2 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.87	733 4	30.01	762.2	51.3	10.7	52	nw.			4		5		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.27	743.4	30.04	763.1	48.2	9.	71	w.			1		kn		nw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.43	722 2	30.01	762.2	44.6	7	85	wnw.			4		8 k		wnw.	0.335	8.5	very cloudy	M. Delorme, Dir.
Lescar, Normal School	29.67	753 6	30.24	768.0	50.9	10.5	86	w.			1		10			0.181	4.6	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.05	763 3	30.15	765.9	53.6	12.0	80	wnw.			2		10	w.	wnw.	0.016	0.4	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.96	735 6	30.03	762 8	46.6	8.1	63	wnw.			1	5 ck		wnw.		0.051	1.3	cloudy	M. André, Director.
Mans, Normal School	29.56	750.8	30.19	766.8	42.6	5.9		wnw.			4		8		wnw.	0.012	0.3	very cloudy	M. Richard, Director
Marseille, Observatory	29.74	755.4	30.01	762 3	56.1	13.4	43	nw.			4		7		nw.	0	0		M. Stephan, Director.
Montlouis	24 82	630.4	29.66	753.4	40.6	4.8	56	w.	16.8	7.5			9	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.91	759.6	30.02	762.4	54.7	12.6	48	wnw.			6		5	w.		0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.11	739.5	29.92	759.9	39.9	4.4	87	wsw.			1		kn		nw.	0.319	8.1		M. Hasse, Director.
Nantes, Observatory	29.99	761.7	30.15	765.8	51.4	10.8	60	nw.			1–2		9 k; kn		nw.	0.004	0.1		M. Larocque, Director.
Perpignan, Observatory	30.02	762 6	30.14	765.5	57.2	14.0	54	nw.	31.8	14.2			9		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.18	537 9			17.2	— 8.2		w.			4				w.	0.315	8.0	foggy	M. Vaussenat, Director.
Privas, Normal School	28.98	736 0	30.06	763 5	48.4	9.1	73	se.			1		n	sw.	nw.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.06	636 4			28.0	— 2.2	100	wnw.			6		10			c.898	22.4		M. Alluard.
Rochefort, Naval Obs'y	30.12	765.1	30.15	765.9	53.6	12.0	76	w.			1		2		wnw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.91	759.6	30.12	765.1	52.2	11.2	72	nw.			6			ne.	nw.	0	0		M. Brotier, Director.
Rodez, Normal School	27.95	709 8	30.13	765.3	45.0	7.2		s.			1		10		se.	0.220	5.6	raining	M. Seger, Director.
Rouen, Normal School	29.93	760 3	29.98	761.5	48.2	9.	84	w.			4		5	w.		0.366	9.3	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.80	756.9	29.97	761.1	45.5	7.5	74	nw.			2		8		nw.	0.079	2.0	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.48	748 8	30.21	767.3	48.7	9.3	91	w.			2		10	nw		0.283	7.2	covered	M. Baillaud, Director.
Tours	29.85?	758.3?	29.85?	758.3?	50.7	10.4	66	nnw.			2		8	nw.	nw.	0.224	5.7	very cloudy	M. de Tastes.
Versailles, Observatory	29.47	748.4	29.96	760 9	45.7	7.6	66	n.			2		8			0.189	4.8	very cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.13	765.2	30.28	769.0	52.9	11.6	85	w.	21.7	9.7			9 kn		w.	0.315	8.0		M. Cartier, Director.
German.																			
Ansbach	28.38	720 9	29.87	758.6	39.9	4.4	65	w.			4		8	w.		0.035	0.9		Prof. Jnedt.
Bamberg	28 93	734.7	29.76	755.9	41.9	5.5	80	nw.			3		7 ks		nw.	0.047	1.2		Prof. Dr. Hoh.
Berlin	29.47	748 6	29.62	752 3	42.4	5.8	61	w.			5		10			0.165	4.2		Meteorological Institute
Breslau	29.17	741.0	29.70	754.3	43.2	6.2	58	w.			4		6			0.004	0.1		Royal University Obs'y
Carlsruhe	29.40	746.8	29.87	758.6	46.8	8.2	62	w.			2		10	nw.		0.120	3.2	raining	Albert Seitz.
Cassel	29.03	737.4	29.74	755.5	41.4	5.2	71	sw.			4		8	sw.		0.031	0.8		Dr. H. Möhl.
Frankfort-on-the-Main	29.46	748.3	29.84	757 8	43.7	6.5	70	w.			1		10			0.173	4.4		Physical Society.
Friedrichshafen	28 48	723.4	29.93	760.3	39.2	4.0	84	sw.			5		10	wnw.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.49	749.0	29.58	751.3	41.4	5.2	80	w.			6		10			0.244	6.2	rainy	E. Prefler.
Kiel	29.47	748.6	29.49	749.0	41.0	5.0	76	w.			5		5			0.173	4.4		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.31	744.5	29.74	755.3	41.9	5.5	71	w.			3		9	w.		0.043	1.1		H. Leppig, Asst.
Magdeburg	29.49	749 0	29.68	753.9	41.9	5.5	74	w.			5		0	wsw.		0.024	0.6		Weather Observatory.
Memel	29.46	748.2	29.50	749.3	39.9	4.4	92	w.			3		10						Issermann.
Munich	28.04	712.3	29.90	759.4	40.8	4.9	67	nw			4		5	n.		0.173	4.4		Central Station.
Neufahrwasser	29.47	748.6	29.49	749.0	39.9	4.4	92	w.			1		9			0.252	6.4		A. Lothes.
Neustadt, Palatinate	29.31	744.4	29.83	757.7	45.5	7.5	61	calm			0		10			0.122	3.1		Prof. Dicknether.
Stuttgart	28.91	734.2	29.81	757.2	46.0	7.8	48	w.			1		7	w.		0.075	1.9		Prof. Dr. Schoder.
Wustrow	29 39	746.6	29.42	747.2	38.1	3.4	97	sw.			5		8 s			0.208	6.8		Profs. Brandes & Reimer
Greek.																			
Athens	29.65	753.0	30.03	762.8	59.4	15.2		sw.			0.5	0	0			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.94	760.4	29.99	761.7	82.8	28.2	55	wsw.	21.0	9.4			7			0	0	d. clouds	
Deesa	29.48	748.6	29.94	760.6	88.9	31.6	21	sse.	4.0	1.8			0			0	0	blue sky	
Bombay	29.86	758.5	29.90	759 4	79.4	26.3	68	nw.	10.0	7.2			0			0	0	blue sky	
Poona, Yarrowda	28.05	712 4	29.86	758.5	90.5	32.5	17	se.	4.0	1.8			0			0	0	blue sky	
Belgaum	27.37	695.1	29.88	759.0	81.1	27.3	41	wsw.	8.0	3.6			3	n.	e.	0	0	d. clouds	
Lahore	29.28	743.8	30.04	763.1	71.8	22.1	47	calm	0	0			8			0	0	d. clouds	
Roorkee	29.08	738 6	29.99	761.8	75.7	24.3	27	w.					2			0	0	blue sky	
Agra	29.45	747.9	30.02	762.4	78.2	25.7	30	e.	2.0	0.9			1		e.	0	0	d. clouds	
Nagpur	28.88	733 4	29.91	759 7	86.5	30.3	31	calm	2.0	0.9			6		w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Jubbulpore	28 63	727.2	30.01	762.2	74.8	23.8	49	e.	4.0	1.8			8	s.		0	0	d. clouds	
Lucknow	29.66	753.3	30.04	763.1	73.2	22.9	30	nw.	2.0	0.9			0			0	0	blue sky	
Allahabad	29.70	754.3	30.02	762.4	72.8	22.7	63	calm	0	0			5	w.		0	0	d. clouds	
Patna	29.81	757.1	30.00	761.9	77.5	25.3	46	ese.	3.2	1.4			5	ese.	ese.	0	0	d. clouds	
Hazaribagh	27.95	709.9	30.00	762.1	68.8	20.4	61	nw.	2.0	0.9			1			0.41	10.4	thund'r stm'	
Cuttack	29.90	759.4	29.98	761.5	81.5	27.5	56	nw.	1.0	0.4			10			0	0	overcast	
Calcutta, Alipore	29.98	761.5	30.00	762.1	74.2	23.4	68	sse.	3.0	1.3			7		sw.	0.12	3.0	d. clouds	
Dhubri	29.92	759.9	30.04	763.0	64.2	17.9	89	ene.	7.6	3.4			10			0.12	3.0	gloomy	
Chittagong	29.93	760.3	30.03	762.6	70.1	21.2	66	nnw.	3.4	1.5			10			0	0	overcast	
Sibsagar	29.65	753.0	29.99	761.8	69.5	20.8	77	ne.	1.0	0.4			8	sw.	sw.	0	0	d. clouds	
Jeypore	28.54	725.0	29.99	761.7	81.5	27.5	29	nw.	1.7	0.8			0			0	0	blue sky	
Zanzibar	29.86	758.5	29.88	759.1	83.7	28.7	69	nnw.	2.1	0.9			1	sse.		0	0	d. clouds	
Bellary	28.42	721.9			88.0	31.1	27	esn?	2	0.9		0	0			0	0	blue sky	
Trichinopoly	29.67	753.6			86.7	30.4	40	ne.	0.2	0.1		3	2			0	0	d. clouds	
ITALIAN.																			
Udine	29.43	747.6	29.85	758.2	47.1	8.4	89	s.	0.9	0.4			10			0.217	5.5		Prof. Giovanni Olodig.
Milan	29.33	745 0	29.86	758.5	42.8	6.0	88	wsw.	7.4	3.3			10			0.012	0.3		Prof. G.V.Schiapparelli
Padua	29.72	755.0	29.84	757.9	46.9	8.3	81	wsw.	5.6	2.5			10			0.126	3.2		Prof. Dott. Lorenzoni.
Moncalieri	28.91	734.3	29.84	757.8	43.2	6.2	79	s.	3.1	1.4			10			0.039	1.0		Prof. F. F. Denza.
Genoa	29.64	752.9	29.84	757 8	55.4	13.0	66	s.	4.3	1.9			10			0	0		Prof. G. M. Garibaldi.
Pesaro	29.78	756.5	29.84	757.8	45.0	7.2	83	n.	15.4	6.9			10			0	0		Prof. Luigi Guidi.
Florence	29.60	751.8	29.86	758.4	54.5	12.5	73	sw.			4		10			0.020	0.5		Prof. Costantino Pittei.
Leghorn	29.72	754.9	29.79	756.7	50.8	13.8	78	w.	11.9	5.3			6			0	0		Prof. P. Monte.
Rome	29.72	755.0	29.90	759.5	58.6	14.8	57	sse.	9.4	4.2			9	wsw.		0.028	0.7		Prof. P. Tacchini.
Lecce	29.68	753 8	29.94	760.4	57.2	14.0	61	sse.	15.0	6.7			6	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.12	739.6	30.03	762.7	54.3	12.4	77	wsw.	1.8	0.8			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.76	755.9	30.02	762.4	57.6	14.2	60	ne.	6.3	2.8			5	w.		0	0		Prof. G. Cacciatore
Syracuse	29.97	761.2	30.01	762.3	58.3	14.6	58	nne.	2.5	1.1			6	wsw.		0	0		Sig. V. Giulia. o.
Sub-series.																			
Naples, Astron'l Obs'y	29.43	747.4	29.95	760.7	57.4	14.1	69	wsw.	11.2	5.0			6	w.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.03	762.7	30.06	763.6	32.3	0.2	97	w			4		10k;ks			0.083	2.1	cloudy	H. Hattori.
Awomori	29.96	761.0	30.00	762 0	30.0	— 1.1	90	w.	10.8	4.8			10 s			0.059	1.5	overcast	K. Ogawa.
Hakodate	29.98	761.6	29.99	761.9	25.5	— 3.6	76	n.	7.8	3.5		0	1 s			0	0	clear	Y. Souma.
Hamamatsu	30.00	762.0	30.10	764.5	34.0	1.1	55	wnw.			4	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.27	768.6	30.28	769 0	30.4	2.4	84	e.	0.2	0.1			10 ck		n.	0.016	0.4	cloudy	Y. Okamoto.
Kagoshima	30.30	769 7	30 32	770.0	31.5	— 0.3	80	nw.			2	0	0			0	0	clear	
Kanazawa	30.09	764.2	30.20	767.0	31.4	— 0.3	88	se.	3.7	1.6			10 n			0.217	5.5	snowing	S. Endo.
Kioto	30.04	763.0	30.21	767.4	33.1	0.6	81	sw.	0.4	0.2			10 n;s			0.003	0.1	light snow	M. Tojima.
Kochi	30.23	767 9	30.25	768.4	30.0	2.2	74	ssw.	2.8	1.2		0	1 s			0	0	clear	K. Kusunose.
Miasaka	30.20	768.0	30.29	769.3	38.1	3.4	67	wnw.			2	0	0			0	0	clear	K. Masuaki.
Miyako	29.88	759.0	29.99	761.8	29.0	— 1.7	84	calm	0	0			10 s			0.004	0.1	gloomy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.11	764 8	30.33	770.4	32.0	0.3	82	calm	0	0		0	0			0	0	clear	
Nemuro	29.94	760.5	29.99	761.7	9.0	—12.8	79	nw.	1.2	0.5		0	0			0	0	clear	A Shibuya.
Niigata	30.08	764.0	30.11	764 8	34.8	1.6	70	sw.	8.0	3.6			10 s		w.	0.030	0.8	overcast	Satoo & Tomikawa.
Nobiru	30.03	762.6	30.04	763.0	31.0	— 0.6	96	nw.	9.3	4.2		0	7s;ks			0	0	fair	Yoshino & Midzushina.
Numadzu	30.04	763.0	30.08	764.0	33.6	0.9	68	e.			2	0	0			0	0	clear	T. Ohgi.
Osaka	30.21	767 2	30.22	767.6	32.3	0.2	76	w.	3.4	1.5		0	0			0	0	clear	H. Omura.
Sakai	30.23	767.8	30.24	768 0	33.9	1.1	95	wsw.			2		9 ks		nnw.	0.008	0.2	cloudy	Yamawchi & Sakamoto.
Sapporo	29.88	759.0	29.95	760.7	28.0	— 2.2	86	calm	0	0		0	5 ns			0	0	fair	S. Kimura.
Shimonoseki	30.13	765.2	30.27	768.9	38.4	3.6	85	sw.			2	0	1 s			0	0	clear	S. Sakano.
Wakayama	30.18	766.5	30.23	767.9	35.3	1.8	69	calm	0	0		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.77	756.1	29.96	761.0	81.6	27.6	64	e.	15.0	6.7		7 c	2 k	wsw.		0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.44	620.8	30.34	770.6	43.3	6.3	74	n.	0.9	0.4		6 c	1 s			0	0	cloudy	M. Leal & M. Pina
Mazatlan	29.77	756.0	30.03	762.7	66.5	19.2	87	e.	1.6	0.8		1 cs	0			0	0	hazy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.82	757.4	29.82	757.4	44.4	6.9		wnw.			4					0.028	0.7		
Groningen	29.67	753.5	29.72	754.9	43.0	6.1		nw.			2					0.055	1.4		
Helder	29.72	754.9	29.72	754.9	42.3	5.7		w.			4					0.098	2.5		
Hellevoetsluis	29.78	756.4	29.78	756.4	50.9	10.5	82	wnw.			3					0	0		
Utrecht	29.72	755.0	29.78	756 4	45.0	7.2	66	wnw			2		7			0	0	very cloudy	H. van'der Brink.
Sub-series.																			
Batavia, Java	29.90	759.5			77.7	25.4	87	nw.	0	0			3			2.677	68.0		Lt.J.J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.48	748.8	29.54	750 4	42.4	5.8	58	nne.	2	1			0			0	0		
Brono	29.72	755.0	29.76	750 0	30.2	— 1.0	69	e.			2		0			0	0		
Christiania	29.47	748.5	29.62	752.4	32.0	0.0	71	ene.	11	5			8			0.098	2.5		
Gjæsvær	29.61	752.1	29.63	752.7	28.9	— 1.7		sse.			4		10			0.028	0.7		
Lodingen	29.73	755.1	29.78	756.3	23.9	— 4.5	77	e.			2		1			0.008	0.2		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.18	766.5	30.27	768.8	60.8	16.0	54	ese.	3.1	1.4			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.00	762 1	30.35	770.9	52.9	11.6	56	ene.	6.3	2.8			1			0	0		The Staff.
Ponta Delgada, Azores	29.78	756.5	29.85	758.3	59.7	15.4	87	sse.	16.1	7.2			3			0.551	14.0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.00	762.0	30.03	762.8	69.8	21.0	78	ne.			2		10			0.142	3.6		
San Salvador, Congo	28.06	712.6	29.86	758.5	84.4	29.1	65	w.			2		8			0	0		
Serra da Estrella	25.47	646.9	30.32	770.2	39.9	4.4	90	sse.	1.3	0.6			1			0	0		
RUSSIAN.																			
Akmolinski	28 79	731.3	30.02	762.5	—10.3	—23.5	91	w.	16	7		7 ck	0			0	0		Major K. Lasarew.
Archangel	29.80	757 0	29 82	757 5	— 0.8	—18.2	86	e.	4	2		1 cs	0			0	0		Capt. Sselliwerstow
Ashurada	30.36	771.2	30.27	768.8	47.3	8.5	65	ene.	13	6			10 kn			0	0	light clouds	
Astrakhan	30.41	772.3	30.32	770.2	21.6	— 5.8	37	sse.	2	1		0	0			0	0		Capt. Wisganow.
Baku	30.34	770.6	30.29	769 4	38.5	3.6	88	ese.	4	2			10 kn			0.035	0.9		
Barnaul	29.46	748.3	30.02	762.5	— 3.3	—19.6	68	sw.	9	4			9			0	0		Meteorological Office.
Bielosersk	29.30	744.1	29.81	757 2	1.2	—17.1	71	ese.	9	4		4 cs	0			0	0		
Dorpat	29.35	745.5	29.60	751.9	24.6	— 4.1	82	ene.	9	4			10 n			0	0		Observatory.
Ekaterinburg	28.88	733.6	29.95	760 6	0.5	—17.5	69	wsw.	13	6		0	0			blank	blank		Meteorological Obs'y
Elissawetgrad	29.43	747.6	29.89	759.3	39.0	3.9	84	ssw.	7	3			10 s;n			inap.	inap.		
Kasan	29.85	758 3	30.16	766.0	— 2.0	—18.9	76	sse.	7	3			0			0	0		Observatory.
Kem	29.79	756.6	29.84	757.9	10.4	— 12.0	85	calm	0	0			10			0	0	h'vy clouds	
Kertch	30.00	762.0	30.02	762.6	37.8	3.2	76	calm	0	0			10 n			0	0		Lagorio & Sassyrea.
Kieff	29.10	739.0	29.74	755 5	36.7	3.7	95	s.	7	3			10 n			0.051	1.3		Observatory.
Koslov	29.28	743.6	29.82	757 4	10 6	—11.9	84	ssw.	18	8			10 s			0.209	5.3	snowing	
Lgov	29.23	742.5	29.84	757.9	31.1	— 0.5	97	wsw.	16	7			10			0.230	6.0	snowing	R. I. Seaweljew, Engin'r.
Libau	29.41	747.1	29.44	747.7	37.9	3.3	98	se.	7	3			10			0.154	3.9		[illegible]
Lugan	29.83	757 7	30.05	763.2	25.5	— 3.6	49	ssw.	13	6			10			inap	inap.		Meteorological Obs'y
Moscow	29.17	740.8	29.69	754.0	10.0	—12.2	85	se.	4	2			10 n			0.035	0.9	light snow	Meteorological Obs'y
Nertschinsk	27.88	708.1	30.38	771.7	8.6	—13.0	70	calm	0	0			0			0	0		
Nikolaiev	29.87	758.8	29.95	760.6	38.3	3.5	80	s.	45	20			10 n			0	0		Capt. Kurdakow.

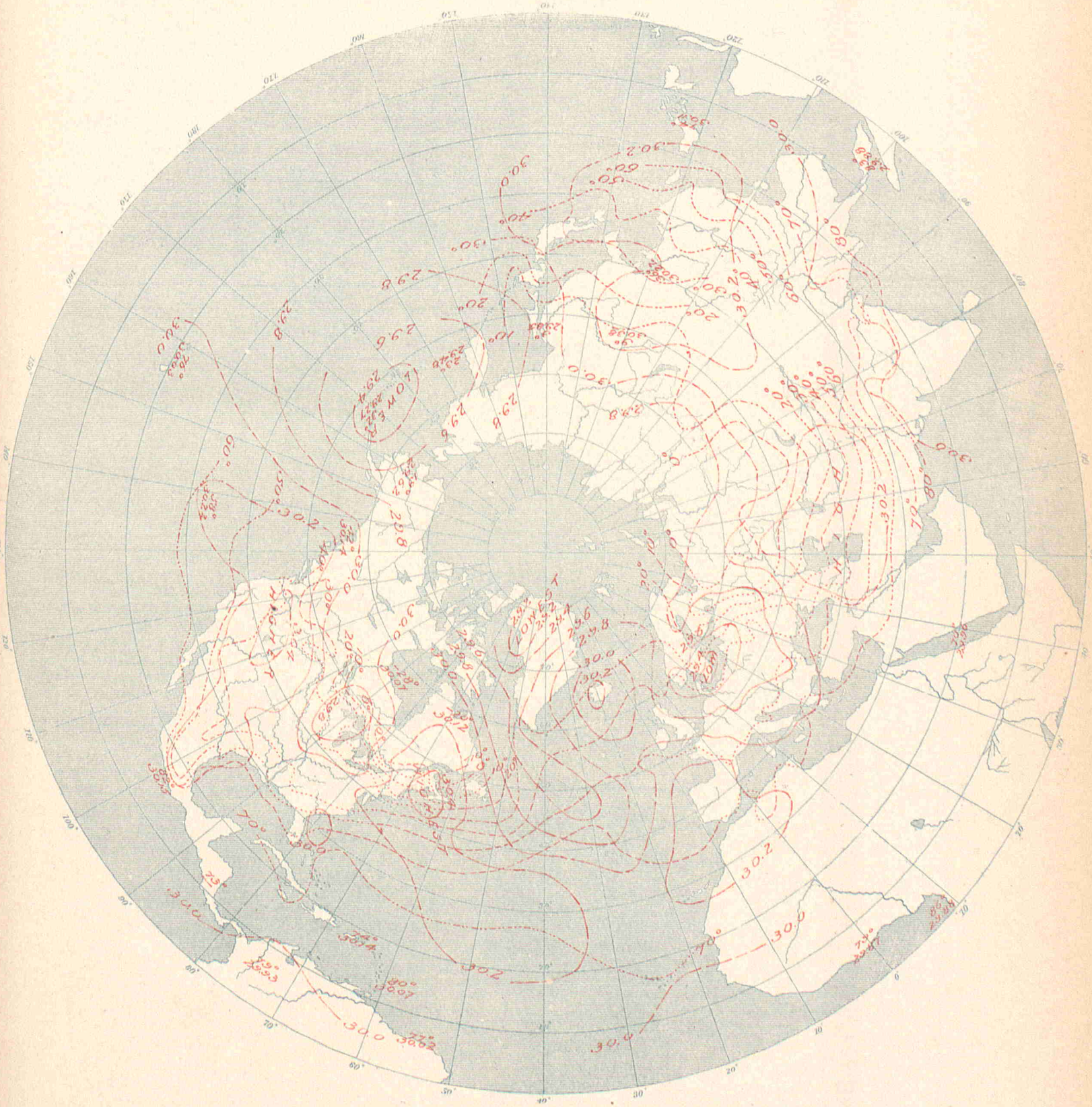
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mts. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolcievsk-on-the-Amoor.	29.76	755.9	29.85	758.1	2.8	—16.2	90	w.	2	1	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.08	764.0	30.22	767.6	35.6	2.0	49	calm	0	0	.....	0	3 k	.....	.....	.....	.....	.....	**Siang.**
Petro-Alexandrovsk	30.03	762.7	30.41	772 3	26.1	— 3.3	29	nne.	2	1	.....	.....	2	.....	.....	.....	.....	.....	**Walter.**
Petrozavodsk	29.55	750.6	29.77	756.1	1.4	—17.0	74	ese.	7	3	.....	cs	3 k	.....	.....	0.039	1.0	.....	Dr. Bergmann.
Pinsk	29.17	740.9	29.67	753.7	40.3	4.6	82	sw.	7	3	.....		10 s	.....	.....	0.110	2.8	light clouds	
Poti	30.10	764.4	30.13	765.2	49.6	9.8	84	ssw.	4	2	.....	.....	0	.....	.....	0	0	.....	
St. Petersburg	29.62	752.4	29.65	753 0	14.7	— 9.6	78	ne.	4	2	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.68	703.0	30.33	770.4	22.1	— 5.5	89	calm	0	0	.....	.....	10 n	.....	.....	.....	.....	.....	**Dresch.**
Semipalatinsk	29.36	745.7	30.09	764.3	— 0.2	—17.9	78	calm	0	0	.....	.....	6	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.78	756.3	30.00	761.9	45.3	7.4	55	s.	27	12	.....	3 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	29.12	739.7	29.69	754.0	41.5	5.3	62	sse.	7	3	.....	.....	10	.....	.....	0.256	6.5	.....	**Carl Hagen.**
Tashkend, Laboratory	28.53	724.7	30.36	771.2	15.1	— 9.4	100	nw.	9	4	.....	.....	10 n	.....	.....	.....	.....	heavy cl'ds..	Terch, A. M
Tiflis	28.83	732.2	30.32	770.0	35.6	2.0	80	e.	9	4	.....	.....	10	.....	.....	inap	inap.	light snow..	Physical Observatory.
Vernoe	27 43	696.6	30.10	764.5	19.4	— 7.0	87	n.	2	1	.....	.....	10 n	.....	.....	.....	.....	.....	**Sariono.**
Viatka	29.01?	736.8?	29.70?	754.4?	0.3	—17.6	63	sw.	2	1	.....	.....	6	.....	.....	0	0	.....	
Vladivostock	30 06	763.5	30.13	765.2	18.5	— 7.5	54	n.	13	6	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.18	741.2	29.61	752.0	45.0	7.2	70	sw.	18	8	.....	7 ck	0	.....	.....	.....	.....	.....	Astronomical Obs'y.
Yeniseisk	29.33	744 9	29.63	752.7	11.5	—11.4	57	w.	11	5	.....	.....	1	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.04	737.6	29.56	750.8	9.6	—12.4	81	ese.	15.5	6.9	.....	.....	10 n	.....	se.	0.14	3.6	light snow..	**Bachmetieff.**
Spanish.																			
Barcelona, Met. Obs'y	30.02	762.4	30.13	765.2	54.7	12.6	82	w.	.....	.....	.....	4 c	0	.....	.....	0	0	.....	B.J.Elin.
Bilbao, Met. Obs'y	30.26	768.5	30.32	770.0	56.1	13.4	73	nw.	2.9	1.3	.....	3	6	n.	.....	0.004	0.1	almost cov'd	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.21	693.6	30.41	772.3	39.2	4.0	95	w.	2.5	1.1	.....	0	3	.....	.....	0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.05	712.4	30.34	770.6	48.9	9.4	64	w.	2.5	1.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.10	764.6	30.22	767.5	62.8	17.1	69	wnw.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.40	746.7	30.32	770.0	51.3	10.7	79	se.	1.8	0.8	.....	.....	10	.....	.....	0.043	1.1	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.02	762.5	30.09	764.2	67.2	19.6	88	s.	0.9	0.4	.....	0	2 k	.....	nw.	0.46	11.7	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.05	763.3	30.11	764.7	73.9	23.3	70	ese.	8.8	3.9	.....	0	8 ks	.....	.....	0	0	cloudy	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.24	768.1	30.34	770.7	59.9	15.5	61	wnw.	2.6	1.2	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.05	763.2	30.14	765.5	73.8	23.2	82	w.	.....	.....	.....	1 s	2 k	.....	nw.	0.031	0.8	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.81	757.1	29.85	758.1	14.7	— 9.6	91	n.	.....	.....	2	.....	10	.....	.....	0.087	2.2	snowing	
Umea	29.75	755.6	29.80	756.9	16.5	— 8.6	82	ne.	.....	.....	4	.....	6	.....	.....	0	0	.....	
Hernosand	29.68	753.9	29.73	755.2	23.4	— 4.8	81	ne.	.....	.....	2	.....	10	.....	.....	0.264	6.7	.....	
Stockholm	29.36	745.8	29.54	750 3	28.4	— 2.0	88	nne.	.....	.....	2	.....	10	.....	.....	0.012	0.3	.....	
Wisby	29.33	745.0	29.39	746.5	38.1	3.4	90	se.	.....	.....	4	.....	10	.....	.....	0.134	3.4	raining	
Sub-series.																			
Upsala	29.49	749.1	29.58	751.3	26.8	— 2.9	90	ne.	13.0	5.8	.....	.....	10	.....	.....	0	0	.....	H.H.Hildebrandesson
Swiss.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.02	762.4	50.7	10.4	58	se.	3	1.5	.....	.....	0	.....	.....	0	0	foggy	The Observatory.
Valona	.....	.....	30.04	763.1	63.1	17.3	.....	sw.	.....	.....	2	.....	5	.....	.....	0	0	½ covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.06	763.4	59.9	15.5	65	nw.	.....	.....	2	.....	2 n	.....	se.	0.101	2.6	.....	F. Nimr, B. A., Dir.
United States.																			
Albany, New York	30.18	766.6	30.27	768.8	25	— 3.9	73	calm	0	0	.....	.....	10 n	.....	.....	0.07	1.8	light snow	J. O. Barnes.
Alpena, Michigan	29.22	742.2	29.93	760.2	16.8	— 8.4	67	se.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.16	639 1	30.26	768.6	30.4	— 0.9	80	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.24	691.9	30.28	769.1	33.8	1.0	66	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	F. Newman.
Atlanta, Georgia	28.90	734 0	30.12	765.0	38.7	3.7	66	e.	7	3.1	.....	0	sk.	.....	.....	0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.22	767.6	30.23	767.8	35.0	1.7	79	e.	8	3.6	.....	10 c	0	e.	.....	0	0	cloudy	B.A.Blundon.
Augusta, Georgia	29.92	760.0	30.12	765.0	43	6.1	74	nw.	5	2.2	.....	1 ck	hz.	.....	.....	0	0	clear	W.J.Evans.
Baltimore, Maryland	30.18	766.6	30.23	767.8	35	1.7	53	s.	4	1.8	.....	.....	10s;sk	.....	s.	0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.24	768.1	30.26	768.6	36.4	2.4	75	se.	12	5.4	.....	5 cs	5 s	.....	.....	0	0	cloudy	**F.L.Johnson.**
Bennett, Fort, Dakota	28.37	720 6	30.10	764 5	36.0	2.2	92	n.	13	5.8	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.29	693.2	30.29	769.4	33.0	0.6	89	sw.	4	1.8	.....	2 cs	4 s	nw.	nw.	0	0	fair	Thomas Morgan.
Bismarck, Dakota	28.08	713.2	30.06	763.5	32.0	0.0	81	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.30	769 6	30.33	770.4	30.0	— 1.1	82	e.	9	4.0	.....	5 cs	0	se.	.....	0	0	fair	J. T. Elker.
Boise City, Idaho	27.47	697.7	30.43	772.9	36.0	2.2	92	sw.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	James Kenealy.
Boston, Massachusetts	30.18	766.6	30.34	770.6	20.0	— 6.7	84	ne.	5	2.2	.....	.....	10 s	.....	nw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.17	766.3	30.23	767.8	50.4	10.2	100	sw.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	John McGlone.
Buffalo, New York	29.22	742.2	30.00	762.0	31.3	— 0.4	95	se.	5	2.2	.....	.....	10 n	.....	.....	0.03	0.8	light snow..	Wm. Finn.
Buford, Fort, Dakota	27.94	709 7	30.14	765.5	31.1	— 0.5	88	sw.	5	2.2	.....	10 c	0	.....	.....	0	0	cloudy	A. Schneider.
Cairo, Illinois	29.70	754 4	30.12	765.0	36.0	2.2	74	sw.	9	4.0	.....	0	7 s	.....	sw.	0.01	0.3	fair	W. H. Ray.
Canby, Fort, Washington Ter	30.20	767.1	30.40	772.1	38.0	3.3	86	e.	2	0.9	.....	.....	fg.	.....	.....	0.04	1.0	dense fog	J.H.Young.
Cape Henry, Virginia	30.17	766.3	30.19	766.8	41.0	5.0	88	ne.	15	6.7	.....	.....	10 ks	.....	se.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.19	766 8	30.22	767.6	38.0	3.3	72	se.	13	5.8	.....	8 cs	0	e.	.....	0	0	cloudy	W.E.Smith.
Cape Mendocino, California	29.50	749.3	30.20	767.1	47.3	8.5	96	nw.	.....	.....	1	.....	fg.	.....	.....	0	0	dense fog	A. P. Leavitt.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	54.5	12.5	46	nw	12	5.4	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.92	760.0	29.98	761 5	51.0	10.6	100	ne.	8	3.6	.....	.....	10 n	.....	ne.	0.36	9.1	light rain	J. H. Smith.
Charlotte, N. Carolina	29.26	743.2	30.15	765 8	38.0	3.3	72	ne.	5	2.2	.....	.....	10 s	.....	ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.25	742.9	30.11	764.8	37.0	2.8	82	n.	1	0.4	.....	4 cs	sk	.....	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	30.36	771.1	38.2	3.4	47	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.12	739.6	29.87	758.7	29.4	— 1.4	73	s.	8	3.6	.....	.....	10 s	.....	s.	0.05	1.3	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.19	766.8	30.21	767.3	38.3	3.5	82	e.	8	3.6	.....	.....	10 ks	.....	.....	0	0	cloudy	O. F. Dickens
Cincinnati, Ohio	29.35	745.5	30.04	762.0	36.3	2.4	89	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	L.Dunne.
Cleveland, Ohio	29.19	741.4	29.98	761.5	33.5	0.8	94	w	5	2.2	.....	.....	10 s	.....	w.	0.08	2.0	cloudy	W.Line.
Columbus, Ohio	29.12	739.6	30.02	762.5	34	1.1	85	s.	8	3.6	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	F.T. Williams
Concho, Fort, Texas	28 22	716.8	30.23	767 8	32.9	0.5	88	w.	3	1 3	.....	0	0	.....	.....	0	0	clear	O. E. King.
Custer, Fort, Montana	26.96	684.8	30.32	770.1	35	1.7	72	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W.J.Daily.
Davenport, Iowa	29.12	739.6	29.82	757.4	30	— 1.1	74	sw.	10	4.5	.....	3 cs	6 s	.....	sw.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25 28	642.1	30.24	768.1	39.0	3.9	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.56	725.4	30.38	771.6	35	1.7	94	se	6	2.7	.....	0	0	.....	.....	0	0	clear	H.S.Blandford.
Deadwood, Dakota	25.42	645.7	30.34	770 6	33.1	0.6	78	sw.	1	0.4	.....	0	0	.....	.....	0.04	1.0	clear	G.Kingsbury.
Delaware Breakwater, Del.	30.22	767.6	30.24	768.1	36.7	2.6	77	se.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy	G.A.Martin.
Denver, Colorado	24.84	630 9	30.36	771.1	44.0	6.7	49	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.92	734.6	29.89	759.2	37	2.8	61	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.98	761.5	33.0	0.6	88	se.	1	0.4	.....	.....	10s;fg	.....	.....	0.19	4.8	cloudy	N.B.Conger.
Dodge City, Kansas	27.70?	703.6?	30.44?	773.2?	37.2	2.9	64	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J.E.Lanouette.
Dubuque, Iowa	29.01	736.8	29.77	756.1	28.2	— 2.1	61	s.	5	2.2	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. Harvey Smith
Duluth, Minnesota	28.80	731.5	29.62	752.3	23.5	— 4.7	92	calm	0	0	.....	.....	10 n	.....	.....	0.41	10.4	light snow	E.R.Brace.
Eastport, Maine	30.34	770.0	30.41	772.4	10.5	—11.9	70	ne.	8	3.6	.....	.....	10 s	.....	ne.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.20	692.4	30.16	766.1	39	3.9	50	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.40	670.5	30.28	769.1	43.1	0.2	52	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.18	741.2	29.96	761 0	37.0	2.8	85	s.	10	4.5	.....	.....	10 s	.....	.....	0.23	5.8	cloudy	C. A. Shaw.
Escanaba, Michigan	29.03	737.3	29.75	755.0	13.0	—10.6	74	s.	8	3.6	.....	.....	10 n	.....	s.	0.02	0.5	light snow	L.M.Pindell.
Fort Smith, Arkansas	29.60	751.8	30.10	764.5	36.3	2.4	80	e.	4	1.8	.....	.....	10 s	.....	n.	0	0	cloudy	J. B. Campbell.
Galveston, Texas	30.18	766 6	30.22	767.6	57.3	14.1	74	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.12	739.6	29.83	757.7	28.1	— 2.2	87	s.	12	5.4	.....	.....	10 s	.....	s.	0.03	0.8	cloudy	Joseph E. Muelle
Grant, Fort, Arizona	25.25	641 3	30.11	764.8	49	9.4	48	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	Chas. A. Read.
Hatteras North Carolina	30.07	763.8	30.08	764.0	50.0	10.0	93	ne.	10	4.5	.....	0	9 s	.....	se.	0.06	1.5	cloudy	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	26.02	660.9	30.37	771.4	40	4.4	73	w.	6	2.7		0	2 s			0	0	clear	S. W. Morrison.
Huron, Dakota	28.48	723.4	30.00	762.0	33.3	0.7	70	nw.	21	9.4		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.15	740.4	30.00	762.0	32.0	0.0	90	sw.	5	2.2			10 s		sw.	0.01	0.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.19	766.8	30.22	767.6	57.3	14.1	79	ne.	4	1.8		0	0					clear	I. A. Reed.
Jacksonville, Florida	29.96	761.0	30.01	762.2	54.6	12.6	91	w.	8	3.6			10 s			0.02	0.5	cloudy	J. W. Smith.
Keokuk, Iowa	29.14	740.1	29.84	757.9	31.0	— 0.6	78	sw.	9	4.0		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	68	20.0	73	nw.	10	4.5		0	1 k		nw.	0.04	1.0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.12	765.0	30.14	765.5	44.0	6.7	93	ne.	18	8.0			10 s			0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.02	737.1	30.10	764.5	33.3	0.7	95	calm	0	0		1 cs	fg.			inap.	inap.	clear	J. A. Cody.
La Crosse, Wisconsin	28.83	732.3	29.67	753.6	28	— 2.2	77	s	12	5.4			10 s			0.08	2.0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.07	738.4	30.02	762.5	39.8	4.3	73	nw.	1	0.4		0	1 s			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.53	750.0	30.40	772.1	37.0	2.8	82	calm	0	0			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.81	757.2	30.14	765.5	38.0	3.3	72	s.	1	0.4		4 k	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.71	754.6	30.11	764.8	58.0	14.4	54	ne.	10	4.5		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.44	747.8	30.03	762.7	37.9	3.3	77	sw.	5	2.2			10 s		sw.	inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.43	747.5	30.15	765.8	32.0	0.0	78	s.	2	0.9		0	4 s		sw.	0	0	fair	Jno. Healy.
Mackinaw City, Michigan	29.16	740.7	29.86	758.4	19.0	— 7.2	76	s.	16	7.2			10 s		s.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.07	763.8	30.08	764.0	46.6	8.1	95	n.	16	7.2		7 ck	1 s	s.	n.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.19?	639.8?	29.94?	760.5?	29.8	— 1.2	41	sw.	16	7.2		0	0			0	0	clear	F. Burke.
Marquette, Michigan	28.95	735.3	29.73	755.1	20.0	— 0.7	91	s.	12	5.4			10 n			0.01	0.3	light snow	J. Gilligan.
Memphis, Tennessee	29.76	755.9	30.11	764.8	39.2	4.0	88	s.	4	1.8		hz.	hz;2s		w.	0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.00	736.6	29.80	756.9	25.4	— 3.7	86	s.	10	4.5			10 n			0.04	1.0	light snow	S. W. Rhode.
Mobile, Alabama	30.09	764.3	30.13	765.3	44.4	6.9	76	calm	0	0		0	sk.			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.87	758.7	30.11	764.8	39	3.9	89	sw.	1	0.4		0	fg.			inap.	inap.	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.78	731.0	29.88	758.9	27.1	— 2.7	88	nw.	16	7.2			10 s		nw.	0.10	2.5	cloudy	H. Bessant.
Mt. Washington, N. H.	23.64	600.4	30.26	768.6	7.0	—13.9	87	w.	28	12.5			fg.		w.	inap.	inap.	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.46	748.3	30.07	763.8	35.6	2.0	89	s.	1	0.4		5 ck	0	w.		0.06	1.5	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.20	767.1	30.32	770.1	24.3	— 4.3	67	e.	4	1.8		0	8 s			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.30	769.6	30.35	770.9	25.5	— 3.6	67	ne.	2	0.9		2 k	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.11	764.8	30.17	766.3	51.0	10.6	69	n.	3	1.3		0	0			0	0	clear	M. Herman.
New York, New York	30.10	764.5	30.29	769.4	32.0	0.0	78	calm	0	0			10 s			0	0	cloudy	H. J. Penrod.
Norfolk, Virginia	30.11	764.8	30.14	765.5	38.0	3.3	86	e.	5	2.2			10 s		s.	inap.	inap.	cloudy	Wm. Davis.
North Platte, Nebraska	27.15	689.6	30.25	768.3	38.2	3.4	81	w.	8	3.6		6 k	0	w.		0	0	fair	J. J. Mc Lean.
Olympia, Washington Ter	30.35	770.9	30.39	771.9	39.5	4.2	89	w.	1	0.4			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.77	730.7	30.04	763.0	38.2	3.4	58	w.	14	6.3			0			0	0	clear	A. Pollak
Oswego, New York	29.73	755.1	30.08	764.0	27.0	— 2.8	64	se.	12	5.4			10 n			0.06	1.5	light snow	J. G. Linsley.
Palestine, Texas	29.62	752.3	30.20	767.1	48.2	9.0	62	s.	5	2.2		0	3 s			0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.10	764.5	30.13	765.3	46.2	7.9	82	sw.	6	2.7		0	sk.			0	0	clear	M. McGauran.
Philadelphia, Pa.	30.16	766.1	30.26	768.6	33.5	0.8	76	e.	3	1.3			10ks;s		sw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.80	452.1	30.52	775.2	12.0	—11.1	76	nw.	44	19.7		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.16	740.7	30.02	762.5	41.2	5.1	92	sw.	4	1.8			10 s		sw.	0.09	2.3	cloudy	O. D. Stewart
Poplar River, Montana					24.4	— 4.2	70	w.			1	0	0			0	0	clear	G. A. Carden.
Port Huron, Michigan	29.21	741.9	29.93	760.2	19.9	— 6.7	83	calm	0	0			10 s			0.03	0.8	cloudy	M. H. Perry
Portland, Maine	30.32	770.1	30.37	771.4	18.0	— 7.8	74	n.	7	3.1			10s;sk		n.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.31	769.9	30.38	771.6	46.0	7.8	100	nw.	2	0.9			10 n			0.03	0.8	light rain	M. L. Hearne.
Prescott, Arizona	24.95	633.7	30.31	769.9	34.0	1.1	82	w.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	30.33	770.4	30.36	771.1	27.6	— 2.4	66	se.	6	2.7		0	8 ks		w.	0	0	cloudy	C. N. Kitchel.
Red Bluff, California	29.83	757.7	30.20	767.1	47	8.3	93	n.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.03	762.7	30.28	769.1	51.0	10.6	93	e	1	0.4		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y.	29.33	745.0	30.04	763.0	28	— 2.2	88	se.	8	3.6			10 n			0.01	0.3	light snow	E. W. McGann.
Roseburg, Oregon	29.79	756.7	30.36	771.1	49.6	9.8	89	e.	4	1.8			10 s			0	0	cloudy	J. J. Nanry.
Sacramento, California	30.11	764.8	30.18	766.6	48.0	8.9	96	nw.	6	2.7		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.32	744.7	29.98	761.5	30.0	2.2	64	s.	20	8.9			10 s		s.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.59	751.6	29.62	752.3	18.5	— 7.5	91	calm	0	0		0	7 s			0.05	1.3	fair	Fred. H. Clarke
St. Paul, Minnesota	28.68	728.5	29.61	752.1	34.6	1.4	76	nw.	12	5.4			10 n			0.05	1.3	light snow	P. F. Lyons.
St. Vincent, Minnesota	28.96	735.6	29.93	760.2	17.5	— 8.1	91	nw.	13	5.8			10 ks		nw.	0.02	0.5	cloudy	O. B. Dilley.
Salt Lake City, Utah	25.88	657.3	30.44	773.2	37.7	3.2	59	se	2	0.9		3 k	0	sw.		inap.	inap.	clear	J. Craig.
San Diego, California	30.00	762.0	30.07	763.8	57.4	14.1	60	ne.	5	2.2		5 cs	0	w.		0	0	fair	F. R. Day.
Sandusky, Ohio	29.24	742.7	29.96	761.0	32.5	0.3	83	w.	10	4.5			10 s		w.	0.07	1.8	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.27	768.8	30.30	769.6	32.9	0.5	78	w.	10	4.5		9 k	0	w.		0	0	cloudy	V. P. Chappel.
Sanford, Florida	29.96	761.0	30.01	762.2	51.0	10.6	86	nw.	6	2.7		0	7 k		nw.	0	0	fair	J. B. Marbury
San Francisco, California	30.07	763.8	30.14	765.5	53.6	12.0	88	ne.	3	1.3		2 cs	0	sw.		0	0	clear	N. Gorom.
Savannah, Georgia	29.90	759.4	30.00	762.0	47.6	8.7	93	n.	8	3.6			10 s		n	0.71	18.0	cloudy	R. M. Geddings.
Shaw, Fort, Montana	26.48	672.6	30.33	770.4	35	1.7	72	sw.	5	2.2		0	8 k		w	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.94	760.5	30.12	765.0	44.6	7.0	64	sw.	3	1.3		1 c	0			0	0	clear	E. N. Meekins.
Sitka, Alaska	30.07	763.8	30.14	765.5	41.5	5.3	91	e.	3	1.3			10 ks		e.	0.93	23.6	cloudy	F. W. Fickett.
Smithville, North Carolina	30.02	762.5	30.06	763.5	50.0	10.0	93	ne.	12	5.4			10 n		ne.	0.03	0.8	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.24	717.3	30.37	771.4	33.0	0.6	88	w.	2	0.9			fg.			0	0	dense fog	D. Moore.
Springfield, Illinois	29.21	741.9	29.94	760.5	33.0	0.6	73	s.	11	4.9		0	1 s		w.	inap.	inap.	clear	T. B. Jennings.
Stockton, Fort, Texas	27.08	687.8	30.21	767.3	41.0	5.0	44	calm	0	0		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.28	769.1			44.0	6.7	96	se.	6	2.7			10 n		se.	0.04	1.0	light rain	R. Connor.
Thomas, Camp, Arizona	27.42	696.5	30.25	768.3	37.2	2.9	64	w.			1	0	0			0	0	clear	R. O. Lord.
Toledo, Ohio	29.22	742.2	29.96	761.0	32.5	0.3	83	w.	5	2.2			10 s			0.06	1.5	cloudy	A. Buell.
Unalashka, Alaska	29.25	742.9	29.27	743.4	32	0.0	88	sw.	2	0.9			10 n			0.02	0.5	cloudy	Samuel Applegate.
Vicksburg, Mississippi	29.91	759.7	30.18	766.6	44	6.7	68	calm	0	0		0	0			0	0	clear	C. Dill.
Washington, D. C.	30.10	764.5	30.22	767.6	33.2	0.7	86	se.	2	0.9		2 c	3 s;hz		sw.	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	26.17	664.7	30.29	769.4	25.5	— 3.6	81	w.	5	2.2		0	0			0	0	clear	F. H. Brandenburg
Wilmington, N. Carolina	30.03	762.7	30.09	764.3	41.5	5.3	96	n	8	3.6			10 s;fg			0	0	cloudy	L. H. Albrecht.
Yankton, Dakota	28.58	725.9	30.00	762.0	37.8	3.2	72	nw.	19	8.5		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.91	759.7	30.06	763.5	56.0	13.3	78	n.	1	0.4		0	7 s		w.	0	0	fair	W. S. Delano.
Sub-series.																			
Behringsland, Kamchatka	29.46	748.3	29.48	748.8	23.1	— 4.9	87	e.	8	3.6		0	4 n			0.01	0.3	fair	George Oberuick.
Bluefields, Nicaragua, C. A.					71	21.7		nw.			1	0	1 k		ne.	0.05	1.3	fair	W. H. Jackson.
Bogota, U. S. C.	22.03	559.5			55.4	13.0	83	calm	0	0			10			0	0	covered	Joaquin Gomez.
Chimo, Fort, Ungava	29.90	761.0	30.12	765.0	—20	—28.9	100	s.	6	2.7		8 c	0	s.		0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.			30.14	765.5	70.4	21.3	79	n.	2	0.9		1 cs	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	86	ne.			3		10 n	ne.	ne.	0.110	2.8	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.37	746.0	29.93	760.2	79	26.1	80	calm			0		10 ks		s.	0.02	0.5	raining	Francisco J. Olsner.
Rivas, Nicaragua, C. A.					73	22.8	88	ne.			3	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	30.00	762.0	30.07	763.8	—28.0	—33.3		nw.	12	5.4		5 k	5 s	nw.	nw.	0.04	1.0	snowing	Fortescue & Wood
U. S. OF COLOMBIA. (Sub series).																			
Colon	30.01	762.3	30.02	762.5	78.1	25.6	80	n.	9.4	4.2		0	6 k		n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.98	761.4	30.04	763.1	70.5	21.4	92	nw.			4	0	1 k		n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 42° 10′. W. 58° 00′†	30.26	768.6	35	1.7		nw.			4		8		nnw.	4 h'r	4 h'r	mod.	nw.	cloudy.
S. S. Alvo, off Yallah Point, Jamaica, W. I*	30.18	766.6	71	21.7		n.			3		3		calm	o	o			fine.
S. S. Ailsa, N. 16° 52′, W. 80° 44′			75	23.9		nne.			2		2		ene.	1½h'r	1½h'r	sm'h		fine.
S. S. Arizona, N. 40° 35′, W. 72° 16′			32	0.0		s.			2		8		w.	o	o	sm'h		cloudy.
Schr. Arthur Burton, Fernandina, Fla†	29.97	761.2				wnw.			3		7		wnw.	2 h'r	2 h'r			threatening.
S. S. Alps, N. 29° 51′, W. 73° 56′*†	30.02	762.5	72	22.2		ese.			5		10		ese.	rain	rain	short		
S. S. Anchoria, N. 53° 59′, W. 21° 57′						se.			3		10		se.			sm'h		cloudy
S. S. British Crown, N. 39° 28′, W. 69° 19′†	30.30	769.6	40	4.4		sse.			2		1			o	o	sm'h		clear.
S. S. Circassian, N. 42° 28′, W. 57° 30′	30.24	768.1	31	— 0.6	89	nnw.			4		10		nnw.			2	ssw.	overcast
S. S. Canada, (Br) N. 41° 04′, W. 64° 14′†	30.39	771.9	34	1.1	79	ne.			3		6			o	o	sm'h		fair.
S. S. Canada, (Fr) N. 45° 24′, W. 42° 39′			50.0?	10?		nw.			6		n.			o	o	h'vy	nw.	covered.
S. S. Chalmette, Algiers, La			51	10.6		n.			3		2			o	o			clear.
S. E. J. Spicer. N. 38° 16′, W. 65° 00′	30.35	770.9	48	8.9	92	n.			3		10		nw.	o	o	mod.	wnw.	cloudy.
S. S. France, N. 42° 13′, W. 58° 49′*†	30.32?	770.0?				wnw.			4		9		wnw.	o	o	large	w.	cloudy.
S. S. Frisia, N. 40° 02′, W. 63° 22′	30.39	771.9	43	6.1		n.			4		5		ne.	o	o	sm'h	n.	fair.
S. S. Grecian, Portland, Me	30.36	771.1	18	— 7.8	84	n.			1		8		n.	o	o			cloudy.
Bg. George, N. 37° 30′, W. 69° 30′*†	30.26	768.6				ene.			1		10			snow	snow	cross	var.	cloudy.
S. S. Hohenstaufen, N. 41° 11′, W. 56° 55′	30.15	765.8	41.5	5.3	96	wnw.			5		9		wnw.	o	o	mod.	wnw.	overcast.
S. S. Helvetia, N. 40° 45′, W. 64° 39′	30.31	769.9	35	1.7	80	nw.			3		3		nnw.	1 h'r	1 h'r			
Bk. Idaho, N. 23° 30′, W. 83° 00′*†	30.07	763.8				nw.			1		0			3 h'r	3 h'r	sm'h		clear.
S. S. Iowa, N. 44° 52′. W. 43° 25′†	29.75	755.6	46	7.8		nw.			6		9		nw.	5 h'r	5 h'r	r'gh.	nw.	misty.
Schr. Jennie N. Huddell, Wilmington N. C†	30.05	763.3	47	8.3		n			1		10		n.	rain	rain			cloudy.
Bg. L. & W. Armstrong, N. 35° 46′, W 64° 28′†	30.24	768.1				nne.			3		6		n.	o	o	long	s.	fair.
S. S. Lone Star, N. 27° 20′, W. 86° 56′*†	30.12	765.0	65	18.3		nw.			3		5?		n.	o	o	sm'h		clear?
S. S. Lessing, N. 45° 48′, W. 35° 39′	29.59	751.6	51	10.6		w.			5		10		wnw.	3 h'r	3 h'r	rg'h	wnw.	squally.
S. S. Mentmore, N. 41° 45′. W. 56° 00′*†	30.18	766 6				n.			6		10			o	o	h'vy	var	fair.
S. S. Neckar, N. 49° 26′, W 15° 33′	30.02	762.5	52.5	11.4	90	ssw.			4–5		6		sw.	sh'rs	sh'rs	sm'h	sw.	fair.
S. S. Orinoco, Hamilton, Bermuda						ne.			2		9		ne.	2 h'r	2 h'r	h'vy	var.	cloudy.
S. S. Oregon, (Br) N. 49° 49′, W. 25° 30′*	29.71	754.6	53	11.7		s.			5		9		s.	1 h'r	1 h'r	mod	sw.	hazy.
S. S. Ohio, (Am) N. 42° 04′, W. 55° 40′*†	30.19	766.8	34	1.1	100	nw.			2		9		nw.	1 h'r	1 h'r	mod.	w.	cloudy.
S. S. Pennsylvania, N. 39° 54′, W. 65° 10′†	30.31	769.9	44	6.7	92	nnw.			6		4		wnw.	o	o	mod.	w.	fair.
S. S. Polynesian, N. 51° 50′, W. 27° 16′	29.78	756.4	49	9.4		se.			2		10		se.	6 h'r	6 h'r	mod.	var.	overcast.
S. S. P. Caland, N. 48° 21′, W 28° 16′			52	11.1	86	var.			5–6		1		s.			4	wnw.	squally.
S. S. Rhein, N. 46° 15′, W. 40° 05′	29.70	754.4				w.			4–6		6		w.	4 h'r	4 h'r	sm'h	sw.	light rain.
S. S. Rhynland, New York, N. Y	30.23	767.8	37	2.8	91	s.			4		2		s.	o	o			clear.
S. S. Scandinavian, N. 51° 07′, W. 30° 06′	29.60	751.8	48	8.9		e.			5		8		w.	14 h'r	14 h'r	mod.	cross	d. clouds.
S. S. Switzerland, N. 39° 56′, W. 64° 58′*†	30.32	770.1				nne.			2		5		nne.	o	o	mod.	n.	fair.
S. S. Samaria, N. 50° 10′, W. 21° 15′	29.85	758.2	52	11.1		sse.			4		7		s.	2 h'r	2 h'r	mod.	sse.	fair.
S. S. Valencia, Puerto Cabello, Venezuela†	30.04	763.0	76	24.4	84	calm			0		4			o	o			fair.
S. S. Belgenland, N. 49° 39′, W. 9° 00′			50	10.0	93	nw.			4				w.	o	o	long	w.	clear.
S. S. Pennland, N. 43° 20′, W. 46° 10′*	29.97	761.2	31	— 0.6	89	wnw.			6		10		nw.	3 h'r	3 h'r	high	wnw.	cloudy.
S. S. State of Georgia, N. 55° 18′, W. 13° 28′†	29.99	761.7	48	8.9		nnw.			5		5		nnw.	sh'rs	sh'rs	long	wsw.	hazy.
Schr Adda Doane, N. 18° 45′, W. 75° 40′†	30.16	766.1				e.			1		4		e.	o	o	mod	ese.	fair.
Bg. Alcira. N. 30° 20′, W. 74° 00′			70	21.1		e.			5		10		nw;ne.	6 h'r	6 h'r	short	cross	overcast.
S. S. Cienfuegos, Cienfuegos, Cuba, W. I	30.10	764.5	69	20.6		ne.			1		2		s.	2 h'r	2 h'r			clear.
Bk. Chas. Stewart, Barcelona, Spain*†	30.19	766.8				sw.			3		2		w.	o	o	mod.	s.	clear.
Bk. Cato, N. 41° 11′, W. 8° 55′	30.38	771.6	54	12.2	87	calm			0		0			o	o	long	nnw.	foggy.
S. S. D. J. Foley, N. 26° 22′. W. 74° 30′*†	30.02	762.5	76	24.4	86	ssw.			4		7		sw.	o	o	long	nnw.	fine.
S. S. Labrador. N. 49° 32′, W. 13° 47′			50.9	10.5		w.			4		3		wsw.	o	o	r'gh	w.	fair
S. S. New York. N 25° 10′, W. 80° 15′*†	30.10	764.5	73	22.8		nw.			5		2		nw.	o	o	sm'h		clear.
S. S. Pavonia, N. 51° 10′, W. 14° 34′	30.06	763.5	53	11.7	93	wsw.			4		10			6 h'r	6 h'r	mod.	wsw.	misty.
S. S. Rialto, N. 49° 36, W. 24° 02′			54	12.2		s.			6		10		w.	o	o	mod.	nw.	hazy.
Pt. Saga, Doboy, Ga†	30.00	761.9	53	11.7					4		7		nw.	1½ hr	1½ hr			foggy.
S. S. Vaderland, Delaware river			26	— 3.3		nne.			5				ne.	o	o			clear.
S. S. Virginian, N. 51° 36′, W. 9° 00′			48	8.9		ese.			2		10		ese.	2 h'r	2 h'r	sm'h		misty.
S. S. Wieland, N. 42° 26′, W. 48° 30′*	30.00	762.0	38	3.3		nw.			4		10		nw.	o	o	mod.	nw.	cloudy.
S. S. Weser, N. 49° 31′, W. 16° 10′	30.00	762.0	51.8	11.0		ssw.			4		8		ssw.	2 h'r	2 h'r	mod.	sw.	cloudy
S. S. Westphalia, N. 48° 37′. W. 20° 54′			50	10.0	86	ssw.			6		8		s.	3 h'r	3 h'r	high	w.	cloudy.
S. S. St. Laurent, Havre, France			51.8	11		wnw			5		3		wnw.	o	o		wnw.	fair.
U. S. Navy Yard, Portsmouth, N. H*	30.31	769.9	15	— 9.4	.82	nnw.	5	2.2			10		n.	o	o			cloudy.
U. S. S. Alliance, St Thomas, W. I	30.15	765.8	75	23.9	72	e.			2		2		e.	o	o			fair.
U. S. S. Kearsarge, Palermo, Sicily	30.01	762.2	61	16.1	71	ne.			2		5		sw.					fair.
U. S. S. Lancaster, Palermo, Sicily	30.03	762.7	58	14.4	94	ene.			2		2			o	o	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.30	769.6	31	— 0.6		e.			2		5					sm'h		fair.
U. S. S. Portsmouth, Fortress Monroe, Va	30.18	766.6	42	5.6	100	s.			3		10		sw.					cloudy.
U. S. S. Powhatan, N. 34° 35′, W. 75° 44′	30.08	764.0	59	15.0	82	ssw.			1		10		s.			sm'h	s.	cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	29.77	756.1	57	13.9	75	sw.			3		2		w.			sm'h		clear.
U. S. S. Swatara, Port au Prince, Hayti, W. I.	30.10	764.5	75	23.9	77	ene.			1		2		calm	o	o	sm'h		clear.
U. S. S. Trenton, N. 31° 22′, E. 32° 11′	30.08	764.0	70	21.1	57	s.			3		2					sm'h		clear.
U. S. S. Vandalia, Curacoa, W. I	30.05	763.3	77	25.0	82	e.			3		5		e.					fair.
U. S. S. Yantic, N. 33° 28′, W. 77° 19′	30.05	763.3	61?	16.1?	88	nne.			3		10					sm'h	s.	drizzling.
H. M. S. Alexandra, N. 35° 06′, E. 33° 57′	30.08	764.0	60	15.6	?	e.			1		2		e.					d. clouds.
H. M. S. Alecto, N. 5° 11, W. 0° 43′	29.87	758.7	79	26.1		ssw.			1		5		n.			4	sw.	d. clouds.
H. M. S. Boadicea, Cape Coast Castle, Gold Coast, Africa			80	26.7	91	sw.			2		7		ssw.			1	ssw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.18	766.6	62	16.7	72	ene.			3		8		ene.					drizzling.
H. M. S. Himalaya, N. 44° 39′, W. 63° 35′			14	—10.0		nne.			3		9					1	wnw.	d. clouds.
H. M. S. Minotaur, Terranova, Sicily	29.97	761.2	57	13.9	69	wnw.			6		7		sw.					d. clouds.
H. P. M. S. Douro, St Thomas, Gulf of Guinea	29.88	758.9	86.0	30.0	78	sse			3		5			o	o	3	se.	d. clouds.
S. S. Lord Clive, N. 48° 02′, W. 30° 30′						sw.			3		4		w.	5 h'r	5 h'r	mod.	var.	fine.
S. S. Carroll, Halifax, N. S			8	—13.3		nne.			3		3		nne.	snow	snow			fair.
S. S. Llandaff City, N. 49° 34′, W. 13° 18′*†	30.00	762.0	52	11.1		w.			6		7		sw.	rain	rain	sm'h		squally.
S. S. Scythia, N. 45° 10′, W. 41° 39′			53	11.7	100	sse.			4		10		se.	6 h'r	6 h'r	long	ne.	hazy.
S. S. Bohemia, N. 41° 44′, W. 55° 34′						nw.			6		8		nw.	o	o	h'vy	nw.	cloudy.
S. S. Rugia, N. 49° 36′, W. 16° 03′	30.08	764.0	53	11 7		s.			5–6		4?		sw.	8 h'r	8 h'r	mod.	sw.	cloudy?
S. S. Nessmore, N. 39° 32′. W. 66° 21′			45	7.2	84	ene.			4		5?		se.	4 h'r	4 h'r	mod.	e.	cloudy?
S. S. Archimedes, (Br.) N. 45° 03′, W. 6° 36′						nw.			3		10		w.	o	o	mod.	nw.	overcast
S. S. Olbers, N. 43° 09′, W. 10° 40′	30.40	772.1	52	11.1	90	wsw.			3		6		sw.			4	nw.	d. clouds.
S. S. Archimede, (It.) N. 34° 23′, W. 25° 23′†	30.01	762.2	64	17.8		sw.			6		8		wsw.	2 h'r	2 h'r	r'gh	sw.	cloudy.
S. S. Picqua, Corunna, Spain			54	12.2	87	sse.			1				calm	o	o			cloudy.
S. S. Dominion, N 42° 27′, W. 59° 20′			31	— 0.6		nnw.			3		10		nne.			con.	var.	cloudy.
S. S. Texas, N. 37° 21′, W. 63° 35′			58	14.4	94	ese.			7		8			o	o	mod.	w.	cloudy.
S. S. Denmark, London, Eng†	29.85	758.2	50	10.0	100	nw.			2									
S. S. England, N. 51° 03′, W. 11° 06′	30.09	764.3				se.			2		10		se.	o	o	mod.	s.	overcast.
S. S. Erin, New York, N. Y †	30.29	769.4	32	0.0		calm			0		7		s.	o	o			cloudy.
S. S. Strassburg, N. 17° 16′, W. 24° 43′	30.15?	765.8?	71.5	21.9	80	nne.			1–2		9		ne.	o	o	2	ne.	cloudy.
S. S. City of Augusta, N. 38° 27′, W. 74° 26′						ene.			6		4?		se.	o	o			cloudy.?
S. S. Muriel, Martinique, W. I			77	25.0		ene.			3		0			o	o	sm'h		clear
S. S. Waesland. Antwerp, Belgium			45	7.2		ssw.			5		9		sw.	1 h'r	1 h'r			cloudy.
S. S. Westernland, N. 49° 34′, W. 11° 18′			56	13.3	87	wnw.			2		10		w.	10 h'r	10 h'r	sm'h		overcast.
S. S. W. A Scholten, Rotterdam, Holland	29.82	757.4	44.1	6.7	91	nnw.			4		7		n.	o	o			fair.
S. S. State of Nebraska, N. 53° 06′, W. 20° 25′ *†	29.97	761.2	44	6.7		ene.			5		10		e.			sm'h		rainy.
S. S. Saxon, N. 39° 00′, W. 74° 40′*†	30.20	767.1	38	3.3		ese.			2		10?			o	o	long	se.	fair?
S. S. Celtic, Liverpool, Eng *†	29.89	759.2	41	5.0		nw.			5		5		e.	o	o			fine.
S. S. Lepanto, N. 49° 22′, W. 5° 00′			53	11.7		nnw.			3		7		n.	o	o	mod.	nw.	cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Romano, Hull, England	.....	.....	42	5.6	.....	w.	.....	.....	4	.....	10	.....	.....	0	0	.....	.....	hazy.
S. S. Salerno, N. 45° 07′, W. 37° 43′	.....	.....	56	13.3	.....	wsw.	.....	.....	3	.....	10	.....	wsw.	.....	.....	mod.	w.	raining.
S. S. Antonio Lopez, N. 37° 48′, W. 0° 16′	30.23	767.8	60	15.6	57	w.	.....	.....	2	1 c	.....	.....	.....	0	0	sm'h	.....	clear.
Bgt. Achsah, N. 16° 04′, W. 58° 51′†	30.17	766.3	76	24.4	.....	ene.	.....	.....	4	.....	4	.....	ene.	1 h'r	1 h'r	mod.	ene.	clear.
S. Armenia, N. 43° 50′, W. 30° 30′ *	29.69	754.1	60	15.6	82	w.	.....	.....	5	.....	3	.....	w.	½ h'r	½ h'r	mod.	wnw.	fine.
S. S. Bracadale, N. 47° 40′, W. 25° 00′	.....	.....	56	13.3	.....	wsw.	.....	.....	4	.....	3	.....	wsw.	0	0	high	sw.	fine.
Bk. Benjamin Dickerman, N. 15° 00′, W. 53° 40′*†	30.16	766.1	74	23.3	.....	e.	.....	.....	5	.....	6	.....	e.	0	0	long	e.	smoky.
S. Cornelius, N. 42° 12′, W. 42° 11′ *†	29.95	760.7	54.5	12.5	.....	w.	.....	.....	6	.....	8	.....	nnw.	6 h'r	6 h'r	long	ne.	cloudy.
S. Dora, N. 41° 00′, W. 43° 17′ †	29.89	759.2	53.0	12.0	.....	w.	.....	.....	6	.....	8	.....	nw.	8 h'r	8 h'r	mod	nw.	cloudy.
S. David Stewart, Orchilla, Venezuela	.....	.....	79	26.1	.....	e.	.....	.....	4	.....	3	.....	e.	0	0	.....	.....	
Schr. Edith R. Seward, N. 13° 36′, W. 55° 28′†	30.05	763.3	78	25.6	.....	ne.	.....	.....	4	.....	4	.....	ene.	0	0	long	ne.	clear.
Bk. Fred W. Carlon, Progreso Roads, C. A.	.....	.....	78	25.6	.....	n.	.....	.....	4	.....	2	.....	n.	0	0	mod.	n.	clear.
Bk. Gloire, N. 37° 40′, W. 72° 52′	.....	.....	46	7.8	.....	ene	.....	.....	5	.....	4	.....	ese.	0	0	sm'h	.....	clear.
Bk Godeffroy, N. 11° 04′, W. 46° 43′	30.09	764.3	75.2	24.0	77	ne.	.....	.....	5	.....	3	.....	ne.	light	light	mod.	var.	clear.
Bk. George Davis, N. 46° 45′, W. 27° 44′ *†	29.53	750.0	.....	.....	.....	s.	.....	.....	5	.....	.....	.....	ssw.	0	0	.....	sw.	covered
Bk. Galeon, N. 51° 05′, E. 1° 20′†	29.81	757.2	46	7.8	.....	wnw.	.....	.....	3	.....	9	.....	nw.	light	light	sm'h	w.	misty.
Bk. Hattie G. McFarland, N. 11° 39′, W. 79° 41′†	30.03	762.7	75	23.9	.....	ene.	.....	.....	4	.....	3	.....	ene.	0	0	long	se.	fine.
Bg. John Wesley, N. 38° 20′, W. 74° 09	.....	.....	.....	.....	.....	nw.	.....	.....	6	.....	1	.....	nnw.	5 h'r	5 h'r	r'gh	nnw.	clear.
Schr. Jas Slater, N. 37° 08′, W. 62° 15′*†	30.35	770.9	.....	.....	.....	nnw.	.....	.....	4	.....	10	.....	calm	0	0	r'gh	var.	cloudy.
Bg. John Welsh, jr., N. 29° 30′, W. 67° 45′	.....	.....	.....	.....	.....	s.	.....	.....	6	.....	.....	.....	s.	.....	.....	r'gh	ssw.	raining.
Schr. Jenny Greenbank, N. 37° 10′, W. 69° 56′*	30.24	768.1	51	10.6	.....	e.	.....	.....	3	.....	8	.....	ese.	0	0	sm'h	nw.	cloudy.
S. S. Laurel, Key West, Fla†	30.07	763.8	69	20.6	.....	nw.	.....	.....	2	.....	4	.....	nnw.	0	0	.....	.....	fair.
Bg L. F. Munson, off Dog Rocks, W.I.	.....	.....	72	22.2	.....	nw.	.....	.....	6	.....	6	.....	nw.	1 h'r	1 h'r	.....	.....	squally.
S. S. Madrid, N. 46° 30′, W. 7° 25′†	30.23	767.8	54	12.2	86	wnw.	.....	.....	6	.....	5	.....	wnw.	shr's	shr's	r'gh	wnw.	fair.
Schr. Minnie A. Bonsall, Brunswick, Ga	.....	.....	.....	.....	.....	n.	.....	.....	2	.....	.....	.....	ne.	2 h'r	2 h'r	light	.....	cloudy.
Schr. Maggie Abbott, N. 19° 30′, W. 72° 59′*†	30.10	764.5	.....	.....	.....	s.	.....	.....	5	.....	4	.....	s.	sh'rs	sh'rs	.....	.....	fair.
Schr. Norena, N. 17° 57′, W. 66° 03′	.....	.....	.....	.....	.....	ene.	.....	.....	3	.....	3	.....	ene.	1 h'r	1 h'r	light	e.	showery.
Bk. Orpheus, N. 46° 04′, W. 32° 20′*.	29.44	747.8	52	11.1	.....	w.	.....	.....	6	.....	8 k	.....	nw.	.....	.....	mod.	nw.	fair.
Bk. Sunbeam, N. 39° 38′, W. 45° 14′*†	30.00	762.0	58	14.4	82	wnw.	.....	.....	7	.....	8	.....	wnw.	4 h'r	4 h'r	cross	var.	cloudy.
Bgt. Sunlight, N. 14° 00′, W. 56° 00′†	30.07	763.8	.....	.....	.....	e.	.....	.....	4	.....	4	.....	e.	0	0	mod.	e.	fair.
S. St. David, N. 28° 45′, W. 40° 23′ †*	30.39	771.9	68.3	20.2	74	nne.	.....	.....	3	.....	4	.....	e.	2 h'r	2 h'r	h'vy	ne.	fair.
S. Stephen D. Horton, Antwerp, Belgium †	29.86	758.4	.....	.....	.....	wsw.	.....	.....	5	.....	10	.....	w.	2 h'r	2 h'r	.....	.....	misty.
S. Vincenzo Accame, N. 36° 12′, W. 43° 44′†	30.24	768.1	62.6	17.0	.....	w.	.....	.....	4	.....	7	.....	w.	0	0	mod.	.....	
Bk. Western Chief, N. 38° 33′, W. 66° 00 *†.	30.34	770.6	.....	.....	.....	ne.	.....	.....	4	.....	6 k	.....	nw.	.....	.....	3	ne.	cloudy.
S. S. City of Alexandria, N. 26° 52′, W. 80° 01′*†	30.09	764.3	59	15.0	.....	nw.	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	nw.	d. clouds.
S. S. Strathleven, N. 49° 30′, W. 13° 03′	.....	.....	54.8	12.7	89	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	3	var.	overcast.
District No. 2—South Atlantic.																		
U. S. S. Plata, Montevideo, Uruguay	29.99	761.7	69	20.6	75	nw	.....	.....	1	.....	10	.....	calm	.....	.....	.....	.....	cloudy
H. M. S. Amethyst, S. 38° 51′, W. 56° 58′	29.75	755.6	65	18.3	84	calm	.....	.....	0	.....	3	nw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	29.98	761.5	68	20.0	74	se.	.....	.....	4	.....	4	se.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, S. 43° 03′, W. 63° 43′	29.74	755.4	58.2	14.6	77	s.	.....	.....	4	.....	6	s.	.....	.....	.....	3	s.	d. clouds.
H. P. M. S. Tejo, Noki, Guinea	30.05	763.3	85.6	29.8	94	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	.....	overcast.
H.P.M.S. Rainha de Portugal, Nova Redondo, Beng'la	29.89	759.3	80.6	27.0	84	w.	.....	.....	4	.....	3	.....	.....	0	0	3	.....	d. clouds.
H. P. M. S. Bengo, S. 3° 18′, W. 9° 18′	30.01	762.2	83.3	28.5	81	wsw.	.....	.....	3	.....	9?	.....	sw.	0	0	3	sw.	blue sky.?
S. S. Hevelius, S. 34° 53′, W. 56° 15′*†	30.00	762.0	78	25.6	.....	ssw.	.....	.....	3	.....	2	.....	wnw.	0	0	.....	.....	clear.
S. S. Rosse, S. 19° 44′, W. 39° 20′	29.91	759.7	79.5	26.4	89	n.	.....	.....	4	.....	3	.....	ne.	0	0	.....	.....	fine.
S. S. Leipzig, S. 9° 06′, W. 35° 03′ *	30.07	763.8	79.0	26.1	87	e.	.....	.....	2	.....	3	.....	ese.	0	0	sm'h	ese.	fair.
Bk. Adelaide, S. 14° 52′, W. 36° 06′ *†	30.07	763.8	.....	.....	.....	ene.	.....	.....	4	.....	1	.....	e.	0	0	light	e.	clear.
Bk. Celestina, S. 30° 03′, W. 42° 30′*†.	29.99	761.7	.....	.....	.....	ssw.	.....	.....	1	.....	10	.....	s.	½ h'r	½ h'r	mod.	wsw.	light rain.
S. S. George S. Homer, S. 15° 58′, W. 32° 15′*†	30.16	766.1	.....	.....	.....	ene.	.....	.....	1	.....	1	.....	ne.	2 h'r	2 h'r	sm'h	ene.	squally.
S. Grecian, S. 25° 12′, W. 26° 44′†	30.22	767.6	79	26.1	78	n.	.....	.....	5	.....	2	.....	n.	light	light	sm'h	.....	clear.
S. Henry Failing S. 23° 42′, W. 24° 55′*†	30.12	765.0	82	27.8	91	ne.	.....	.....	3	.....	3	.....	ne.	0	0	sm'h	.....	clear.
Bk. Horace Scudder, Banana creek, Guinea *†	30.10	764.5	89	31.7	.....	sw.	.....	.....	2	.....	2	.....	sw.	0	0	.....	.....	clear.
S. Ismir, S. 54° 35′, W. 53° 44′ *†	28.78	731.0	.....	.....	.....	s.	.....	.....	3	.....	10	.....	sw.	8 h'r	8 h'r	r'gh	var.	fine.
Bkt. Levanter, Montevideo, Uruguay*	29.95	760.7	71	21.7	.....	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Winifred, S. 0° 57′, W. 38 15′ *†	30.05	763.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	ne.	0	0	.....	ene.	
S. S. Teniers, S. 26° 54′, W. 42° 09′	29.98	761.5	76.2	24.6	74	wsw.	.....	.....	4	0	3 k	.....	.....	.....	.....	2	s.;w.	blue sky.
District No. 3—North Pacific.																		
U. S. S. Alert, Nagasaki, Japan	30.31	769.9	42	5.6	74	ne.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	fair.
U. S. S. Essex, Canton, China	30.23	767.8	51?	10.6?	.....	ssw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Hartford, Honolulu, Sandwich Islands	30.03	762.7	76	24.4	82	s.	.....	.....	2	.....	2	.....	.....	0	0	.....	.....	clear.
U. S. S. Juniata, N. 32° 36′, E. 127° 41′	30.31	769.9	45	7.2	84	wnw.	.....	.....	3	.....	5	.....	wnw.	0	0	sm'h	.....	fair.
U. S. S. Monocacy, N. 24° 47′, E. 119° 14′	30.35	770.9	53	11.7	60	nne.	.....	.....	4	.....	0	.....	.....	.....	.....	mod.	ne.	clear.
U. S. S. Palos, Tientsin, China	30.19	766.8	33	0.6	.....	e.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
H.M.S. Audacious, Tyshan Bay, China	30.20	767.1	59	15.0	88	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, N. 24° 26′, E. 118° 05′	30.24	768.1	55	12.8	74	ene.	.....	.....	2	.....	0	.....	.....	.....	.....	2	.....	blue sky.
H. M. S. Champion, Shanghai, China	30.37	771.4	43	6.1	75	se.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Flying Fish, N. 24° 23′, E. 118° 04′	30.34	770.6	50	10.0	86	e.	.....	.....	3-5	.....	0	.....	.....	.....	.....	3	e.	blue sky.
H. M. S. Magpie, N. 5° 24′, E. 1° 0° 20′	29.88	758.9	82.7	28.2	67	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	misty.
H. P. M. S. Tamega, Macao, China	30.25	768.4	62.6	17.0	80	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	blue sky.
S. S. Newburn, N. 26° 56′, W. 114° 24′ *†	30.12	765.0	60	15.6	76	nw.	.....	.....	2	.....	3	.....	nw.	0	0	.....	wnw.	clear.
S. S. Columbia, N. 40° 46′, W. 124° 36′ *†	30.16	766.1	51	10.6	100	n.	.....	.....	3	.....	10	.....	n.	.....	.....	h'vy	nw.	hazy.
S. S. Oregon, Astoria, Oregon †	30.45	773.4	38	3.3	90	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	foggy.
S. S. Willamette, N. 46° 58′, W. 124° 54′ †	30.42	772.7	45	7.2	92	calm	.....	.....	0	.....	0	.....	.....	0	0	long	wsw.	hazy.
S. S. Alameda, Honolulu, Sandwich Islands†	29.93?	760.2?	68	20.0	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Ancon, San Francisco, Cal	30.12	765.0	54	12.2	74	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear
S. S. City of Chester, San Francisco, Cal †	30.18	766.6	53	11.7	86	ne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Queen of the Pacific, Port Townsend, Wash. Ter.	30.36	771.1	44	6.7	92	calm	.....	.....	0	.....	4	.....	calm	0	0	.....	.....	foggy.
S. S. State of California, Portland, Oregon †	30.46	773.7	45	7.2	92	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Eureka, N. 56° 42′ W. 135° 20′	.....	.....	41	5.0	91	ese.	.....	.....	3	.....	10	.....	.....	24 h'r	24 h'r	sm'h	.....	cloudy
S. S. Australia, N. 37° 37′, W. 123° 12′	.....	.....	51	10.6	93	nw.	.....	.....	4	.....	2	.....	nw.	0	0	long	w.	dense fog.
S. S. City of Pekin, N. 33° 30′, W. 140° 12′ †	30.22	767.6	58	14.4	82	e.	.....	.....	3	.....	2	.....	e	.....	.....	long	w.	clear.
S. S. City of Rio de Janeiro, N. 30° 01′, E. 131° 32′ †	30.28	769.1	.....	.....	.....	ne.	.....	.....	2	.....	2	.....	ne.	.....	.....	light	ne.	clear.
S. S. City of Sydney, N. 22° 07′, W. 156° 32′ *†	29.94?	760.5?	74	23.3	76	ssw.	.....	.....	2	10 cs	.....	sw.	.....	.....	.....	mod.	w.	cloudy.
S. S. Colima, Panama, Panama†	30.01	762.2	76	24.4	82	nw.	.....	.....	2	.....	0	.....	calm	0	0	.....	.....	fair.
S. S. San Blas, N. 23° 01′, W. 108° 04′†	30.00	762.0	71	21.7	75	nw.	.....	.....	4	.....	4	.....	nw.	0	0	h'vy	nw.	clear.
S. S. San Jose, N. 16° 51′, W. 99° 56′ *†	30.15	765.8	82	27.8	.....	ne.	.....	.....	2	.....	2	.....	ne.	0	0	small	w.	clear.
S. S. Benalder, N. 30° 30′, E. 134° —′ *	30.26	768.6	38	3.3	45	nw.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. St. Francis, N. 36° 30′, W. 134° 45′ *†	30.52	775.2	53	11.7	80	ene.	.....	.....	4	.....	8	.....	ene.	2 h'r	2 h'r	long	wnw.	misty.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, Callao, Peru *	30.00	762.0	71	21.7	95	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
H. M. S. Constance, S. 27° 36′, W. 86° 00′	30.26	768.6	70	21.1	80	se.	.....	.....	4	.....	9	calm	.....	.....	.....	3	ese.	d clouds.
H. M. S. Espeigle, S. 45° 49′, E. 166° 35′	29.72	754.9	57	13.9	69	ne.	.....	.....	2-5	.....	10	.....	.....	.....	.....	.....	.....	raining.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.98	761.5	59.3	15.2	82	calm	.....	.....	0	.....	5	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.57	751.1	49	9.4	79	s.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Zealandia, Sydney, N. S. W.	30.05	763.3	69	20.6	80	se.	.....	.....	2	.....	2	.....	se.	0	0	.....	.....	clear.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.97	761.2	63	17.2	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	sm'h	.....	
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.96	761.0	70	21.1	75	ne.	.....	.....	3	.....	8	w.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tourmaline, S. 14° 00′, E. 47° 33′	29.88	758.9	84	28.9	83	wnw.	.....	.....	2	.....	4	.....	.....	.....	.....	sm'h	.....	d. clouds.
S. Orealia, S. 41° 18′, E. 23° 30′*.	29.92	760.0	.....	.....	.....	wsw.	.....	.....	6	.....	5	.....	wsw.	0	0	high	w.	fair.

International Chart I. February 25, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 26, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours			30.25	768.3	64.0	17.8	78	sw.			1		0			0	0		Roziere.
Algiers			30.21	767.4	59.7	15.4	79	wsw.			3		0			0	0		Théve.
La Galle			30.11	764.8	60.4	15.8	75	nw.			4		3			0	0		Fonfrède.
Tunis			30.10	764.4	55.4	13.0	70	nw.			3		4			0	0		Delord.
Geriville					55.4	13.0	35	nw.			2		0			0	0		Forfert.
Laghouat			30.26	768.5	63.3	17.4	88	nw.			2		0			0	0		Abraham.
Biskra			30.21	767.2	64.4	18.0	67	sw.			2		0			0	0		Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			30.14	765.5	55.8	13.2	67	s.	7	3.1			1 s			0	0	fine	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.59	751.6	29.78	756.4	45.3	7.4	75	ssw.	10	4.5			2		W.	0.08	2.0	clear	Com. J. Shortt, R.N.
Melbourne, Victoria	29.92	759.9	30.01	762.2	54.4	12.4	85	w	8	3.6			10			0.02	0.5	showery	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.29	744.0	29.85	758.2	46.4	8.0	52	e.			2		6			0.035	0.9		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.96	735.5	29.73	755.2	42.8	6.0	62	w.	8.7	3.9			10			0.039	1.0		Dr. Wierzbiski
Eperies	28.88	733.6	29.77	756.2	42.1	5.6	78	calm			0		10 s			0	0		Julius Mikolik.
Gratz	28.59	726.2	29.86	758.4	45.0	7.2	47	sw.			1		5			0.043	1.1		Andreas Rospini.
Hermannstadt	28.29	718.5	29.73	755.1	45.9	7.7	79	nw.			2		10			0.063	1.6	raining	Prof. A. Gottschling
Kremsmunster, Obs'y	28.52	724.4	29.90	759.4	38.1	3.4	82	wsw.			2		10			0.028	0.7		The Staff.
Lemberg	28.77	730.7	29.77	756.1	42.4	5.8	75	se.			2		9			0.067	1.7		Dr. T. Stanecki.
Pola	29.69	754.1	29.80	757.0	50.5	10.3	75	nw.			4		4			0	0		I. R. Hydrographic Office.
Szathmar	29.24	742.7	29.71	754.6	45.7	7.6	76	n.			2		9			0.039	1.0		Joseph Midlinszky, S. J
Szegedin	29.49	749.0	29.78	756.3	42.8	6.0	85	n.			1		10			0.106	2.7		Karl Stancel.
Trieste	29.76	755.9	29.86	758.4	48.9	9.4	69	n.			1		2			0	0		Royal Academy.
Vienna	29.13	740.0	29.87	758.6	40.3	4.6	76	w.			2		8			0.071	1.8		I. R. Central Met. Obs'y.
BELGIAN.																			
Arlon	28.46	722.9	29.88	758.9	37.8	3.2	92	wsw.			2		3			0.177	4.5	sleeting	
Brussels	29.73	755.1	29.94	760.4	36.7	2.6	95	wnw.			3		10			0.228	5.8	snowing	
Furnes	29.89	759.3	29.91	759.8	45.1	7.3	79	nw.			1		8			0.102	2.6		
Maeseyck	29.77	756.1	29.89	759.3	45.0	7.2	73	nw.			1		7			0.177	4.5		
BRITISH.																			
Aberdeen	29.90	759.4	30.00	762.0	42.3	5.7	66	nne.	12	5.4			7			0.005	0.1	d. clouds	W. Boswell.
Bidston, Liverpool Obs'y			29.96	761.0	39.7	4.3	91	e.	3	1.3			7					d. clouds	John Hartnup.
Bolton, Sharples	29.41	747.0	29.95	760.7	43.4	6.3	71	nne.	6	2.7			3					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.52	749.8	29.94	760.5	41.1	5.1	74	ne.			1		7			0.06	1.5	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.05	763.3	30.08	764.0	83	28.3	67	ne.			3		2					d. clouds	Corp'l C. McGregor, A.H.C
Cardington					41.0	5.0	76	ne.			0.4		3					d. clouds	John McLaren.
Chatham, School M. E.	29.76	755.9	29.94	760.5	44.7	7.1	78	calm			0		5			blank	blank	misty	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.72	754.9	29.95	760.7	46.2	7.9	96	ne.			1		10					drizzling	The Staff.
Fort Napier, Natal	27.69	703.3	30.00	762.0	61.5	16.4	91	se.			1		10					raining	Corp'l C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.81	757.2	29.85	758.2	40	4.4	91	s.			1		8			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.08	764.0	30.18	766.6	63.2	17.3	86	e.			3		8					d. clouds	Sgt. F. Norris, A. H. C.
Greenwich, Royal Obs'y	29.78	756.4	29.95	760.7	45.1	7.3	72	n.			1		4			blank	blank	d. clouds	The Staff.
Guernsey	29.68	753.9	29.99	761.7	44.2	6.8	98	ne.			1		10					drizzlnig	A. Collenette, F.R.M.S.
Kew, Observatory	29.92	760.0	29.96	761.0	44.6	7.0	68	n.	6	2.7			6					d. clouds	The Staff.
Leicester, Museum	29.68	753.9	29.94	760.5	44.4	6.9	68	n			1		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.92	760.0	56.8	13.8	90	w.			2		8			0.20	5.1	overcast	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.10	764.5	69.0	20.6	54	nw.			1		0					blue sky	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.73	755.1	29.96	761.0	43.1	6.2	83	nne.			1		6					d. clouds	The Staff.
Plymouth	29.87	758.7	29.95	760.7	42.2	5.7	97	ese.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.91	759.7	30.01	762.2	42	5.6	83						5					d. clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.85	758.2	29.92	760.0	54.6	12.6	65	ssw.			1		5					d. clouds	W. H. Lyne.
Sheffield	29.66	753.4	29.95	760.7	43.2	6.2	69	nw.			1		8					overcast	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss					46.1	7.8	78	nw.			1.0		3					d. clouds	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.76	755.9	29.79	756.7	48.6	9.2	87	ese.	24	10.7			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.60	751.8	30.00	762.0	57.2	14.0	71	w.	16.2	7.2		0	9 k		W.	0	0	misty	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B	30.21	767.3	30.25	768.3	15.0	— 9.4		calm	0	0		10 cs	0			0	0	d clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.24	768.1	30.28	769.1	12	—11.1	92	w.	6	2.7		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.23	767.8	30.29	769.4	12	—11.1	91	e.	1	0.4			10 s		e.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.55	750.6	29.75	755.6	28.2	— 2.1	96	se.			1		10 n			0.200	5.1	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.22	767.6	30.27	768.8	11.0	—11.7		e.			3		10 n					snowing	H. A. Johnson.
Father Point, Quebec*	30.07	763.8	30.09	764.3	12	—11.1	83	calm	0	0			10 n			0.10	2.5	light snow	J. McWilliams
Fort Garry, Manitoba*	29.22	742.2	30.12	765.0	16	— 8.9	100	n.	5	2.2			10 n			0.14	3.6	cloudy	James Stewart.
Fredericton, N. B	30.15	765.8	30.22	767.6	16.0	— 8.9	83	e.	1	0.4		10 ck	0			0	0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B	30.08	764.0	30.14	765.5	25	— 3.9	88	se.	18	8.0		0	hz.			0	0	hazy	J. Chipman Seeley
Granton, Ontario	28.55	725.2	29.68	753.9	32.1	0.1	97	sw.	2	0.9			10 n			0.200	5.1	overcast	Jas. Grant.
Halifax, N. S*	30.12	765.0	30.26	768.6	18	— 7.8	100	e.	10	4.5		0	8 k		se.	0	0	cloudy	A. Allison.
Hamilton, Ontario	29.29	744.0	29.71	754.6	32.9	0.5	89	e.			1	10 cs	0	e.		0.100	2.5	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.34	745.2	29.69	754.1	34	1.1	92	s.	10	4.5			10 k		s.	0.31	7.9	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.18	766.6	30.22	767.6	16.0	— 8.9	91	ne.	2	0.9		3 cs	0			0	0	fair	C. H. Rigby.
London, Ontario	28.75	730.2	29.67	753.6	32.8	0.4	91	sw.			1		10 n			0.200	5.1	overcast	E. B. Reed.
Medicine Hat, N. W. T	28.05	712.5	30.44	773.2	31	— 0.6	92	nw.	6	2.7			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	28.16	715.3	30.25	768.3	13	—10.6	87	n.	16	7.2			10 ks		n.	0.01	0.3	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	29.64	752.8	29.86	758.4	29	— 1.7	96	se.	16	7.2			10 n			0.42	10.7	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	29.55	750.6	29.78	756.4	24.0	— 4.4	95	ene.					10 s					snowing	A. McGill, M. A.
Parry Sound, Ontario*	28.99	736.3	29.72	754.0	24	— 4.4	92	e.	4	1.8			10 n		e.	0.04	1.0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.94	735.1	29.71	754.6	26.3	— 3.2	86	se.			1		10 k			0.23	5.8	misty	Wm. O'Connor, M.A.
Port Arthur	29.16	740.7	29.90	759.4	20	— 6.7	84	n.	6	2.7		0	hz.			0.08	2.0	hazy	W. P. Cooke.
Port Dover, Ontario	28.96	735.6	29.67	753.6	33	0.6	100	sw.	6	2.7			10 n			0.27	6.9	light snow	R. Morgan.
Port Stanley, Ontario	29.02	737.1	29.69	754.1	33	0.6	92	w.	10	4.5			10 n		sw.	0.20	5.1	light snow	M. Payne.
Qu Appelle, N. W. T	27.83	706.9	30.28	769.1	12	—11.1		n.	8	3.6		10 cs	0	calm		0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.60	751.8	29.99	761.7	20	— 6.7	96	n.	8	3.6			10 s		n.	0.20	5.1	light snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.27	743.4	29.75	755.6	17	— 8.3	80	calm	0	0			10 n			0.17	4.3	light snow	W. H. McIntyre.
St. Andrews, N. B	30.07	763.8	30.12	765.0	26	— 3.3	84	se.	6	2.7			10 n			0	0	cloudy	
St. John, N. B	30.04	763.0	30.19	766.8	22.4	— 5.3	94	e.	12	5.4		4 k	4 k	se.		0	0	d. clouds	G. Hutchinson.
St. Pierre, N. F			30.24	768.0	16.5	— 8.6		w.			2								The Commandant.
Saugeen, Ontario*	28.93	734.8	29.67	753.6	27	— 2.8	92	e.	9	4.0			10 s			0.13	3.3	cloudy	
Stratford, Ontario	28.32	719.3	29.64	752.8	30.8	— 0.7	94	calm	0	0			10 s					snowing	W. McBride, M.A.
Sydney, C. B*	30.30	769.6	30.37	771.4	8	—13.3	100	calm	0	0		2 c	0	sw.		0	0	fair	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.31	744.5	29.70	754.4	32	0.0	100	se.	6	2.7			10 n			0.16	4.1	light snow	Magnetic Observatory.
Woodstock, Ontario	28.57	725.7	29.66	753.4	33.0	0.6	96	sw.	11	4.9			10 n			0.230	5.8	snowing	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.03	762.7	30.10	764.5	25	— 3.9	84	e.	8	3.6		hz	0			0	0	hazy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.19	766.8	30.22	767.6	71.0	21.7	83	se.				0	7 s			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.96	761.0			74.0	23.3	48	se.				0	5 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.82	706.6			86	30.0	44									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.93	760.2	30.00	762.1	62.1	16.7	84	n.			2	10						cloudy	Samuel Redolez.
Iquique	29.94	760.5	29.97	761.2	69.8	21.0	75	sw.			2							foggy	Rafael Moreno.
Niebla	29.59	751.5	29.69	754.2	61.9	16.6	77	e.			4		1 n		se.	0	0		Federico Köhling.
Punta Caldera	29.95	760.7	30.04	762.9	60.8	16.0	87	ne.			1	8 c		ne.				cloudy	Manuel Tobar.
Punta Corona	30.02	762.5	30.21	767.2				se.			1					0	0	cloudy	Francisco Alvarado.
Valparaiso	29.88	759.0	30.02	762.5	59.9	15.5	93	n.			0.5		10					cloudy	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.14	765.6	30.17	766.2	45.3	7.4	83	se.	4.9	2.2			3			0	0	fair	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.74	755.3	29.78	756.5	31.5	— 0.3	90	nne.	13	6.			10					snowing	Oversergent Fischer.
Fanöe	29.87	758.6	29.89	759.1	33.3	0.7	66	n.			6		8						Overloerer Laurdsen.
Godthaab, Greenland	29.82	757.5	29.87	758.6	3.6	—15.8	100	n.			4		10					snowing	S. Kleinschmidt.
Ivigtut, Greenland	29.58	751.3	29.60	751.8	31.8	— 0.1		calm			0		10						
Jacobshavn, Greenland	29.86	758.4	29.91	759.6	—11.6	—24.2		calm			0		5						
Stykkisholm, Iceland	29.98	761.6	30.03	762.7	30.2	— 1.0	86	e.			2		0						A. O. Thorlacius.
Thorshavn	30.09	764.3	30.11	764.9	36.5	3.6	73	ne.	9	4.			8						Overloerer Bergh.
Upernavik, Greenland	29.94	760.5	29.99	761.7	— 6.0	—21.1		calm			0		3						
Vestervig	29.77	756.1	29.86	758.4	32.4	0.2	87	nne.			6		7						Loerer Oesterbol.
Egyptian.																			
Cairo	30.07	763.7			63.5	17.5		ne.	1.3	0.6		0	4 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.37	746.1	30.03	762.7	51.4	10.8	77	se.			1		9 kn	nw.		0.063	1.6		M. Labroue, Director.
Alençon, Normal School	29.39	746.4	29.94	760.4	42.4	5.8	97	nw.			1		10 n			0.094	2.4	covered	M. Nicot, Director.
Arras, Normal School	29.57	751.0			45.5	7.5	76	w.			1		2		w.	0.031	0.8	slightly cl'dy	M. Ungerer, Director.
Avignon, Normal School	29.96	760.9	30.04	762.9	55.4	13.	48	nw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.42	747.3	30.00	761.0	41.0	5.0	87	sw.			1		10		w.	0.059	1.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.71	754.5	29.98	761.4	44.6	7	69	s.			1		5		wsw.	0.098	2.5	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.02	737.0	29.94	760.5	38.3	3.5	93	sw.			2		10 n		ne.	0.217	5.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.81	757.2	30.11	764.9	53.1	11.7	72	wnw.			1		10		wnw.	0.028	0.7	covered	M. Rayet, Director.
Bourges, Normal School	29.44	747.8	30.01	762.2				w.			1		n		w.	0.382	9.7		M. Sauvageot, Director.
Brest, Naval Observatory	29.80	756.9	30.04	763.1	52.9	11.6	93	w.			1		8		w.	0.098	2.5		M. de Kermarée, Dir.
Caen, Normal School	29.87	758.8	29.95	760.7	48.2	9	97	e.			1		10			0.16	4.	raining	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.63	752.7	29.96	761.0	41.7	5.4	81	w.			2		10		w.	0.102	2.6	covered	M. Jadot, Director.
Charleville, Normal School	29.39	746.4	29.91	759.7	45.3	7.4	57	w.			1		5		wnw.	0.157	4.0	½ covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.61	726.7	29.98	761.6	47.5	8.6	76	w.			2		10			0.106	2.7	misty	M. Allnard, Director.
Cluny, Normal School	29.17	741.0	30.04	763.1	39.7	4.3	87	s.			1		10		sw.	0.161	4.1	covered	M. de Villemontée, Dir.
Commercy, Normal School	29.10	739.1	29.98	761.6	40.5	4.7	91	w.			1		5 kn	w.	w	0.201	5.1	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.40	695.9	29.96	761.0	45.7	7.6	55	calm			0		1 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.85	732.7	29.97	761.3	52.0	11.1	56	nw.			4		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.31	744.4	30.09	764.3	47.8	8.8	73	sw			1		k			0	0		M. Ablard, Director.
Guéret, Normal School	28.42	721.8	30.01	762.3	42.3	5.7	91	sw.			4		10 n		sw.	0.169	4.3	light rain	M. Delorme, Dir.
Lescar, Normal School	29.53	750.0	30.10	764.4	57.2	14.0	62	w.			1		0			0.197	5.0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.91	759.8	30.02	762.4	52.9	11.6	73	wsw.			2		8	w.	wsw.	0.004	0.1	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.94	735.0	30.02	762.6	41.9	5.5	82	s.			2		10			0.059	1.5	raining	M. André, Director.
Mans, Normal School	29.62	752.4	29.93	760.3	47.5	8.6		nnw.			1		10			0	0	covered	M. Richard, Director.
Marseille, Observatory	29.75	755.6	30.02	762.4	55.4	13.0	39	nw.			4		2		nw.	0	0		M. Stephan, Director.
Montlouis	24.77	629.1	29.61	752.1	46.4	8.0	34	sw.	9.4	4.2			0			0.039	1.0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.87	758.6	29.98	761.4	55.8	13.2	64	nnw.			2		5	w.		0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.15	740.4	29.95	760.8	40.6	4.8	81	wsw.			1		n		nw.	0.358	9.1		M. Hasse, Director.
Nantes, Observatory	29.90	759.5	30.06	763.6	52.3	11.3	77	wnw.			1–2		10 n kn		w.	0.012	0.3		M. Larocque, Director.
Perpignan, Observatory	29.97	761.3	30.08	764.1	58.6	14.8	51	nw.	11.2	5.0			7	wnw.	nw.	0.024	0.6		Dr. Fines, Director.
Pic-du-Midi, Summit	21.16	537.5			25.7	— 3.5		nw.			2		1		nw.	0.020	0.5	clear	M. Vaussenat, Director.
Privas, Normal School	28.93	734.7	30.01	762.3	46.0	7.8	82	nw.			1		kn	sw.	nw.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.00	634.9			31.5	— 0.3	100	w.			8		10			0.500	12.7		M. Allnard.
Rochefort, Naval Obs'y	30.04	763.1	30.08	763.9	53.6	12.0	80	w.			2		10		wnw.	0.39	10.	cloudy	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.80	757.0	30.02	762.5	52.9	11.6	76	sw.			4				sw.	0.150	3.8		M. Brotier, Director.
Rodez, Normal School	27.87	707.8	30.13	765.2	46.9	8.3		s.			0–8		5		w.	0.071	1.8	fair	M. Seger, Director.
Rouen, Normal School	29.96	761.0	30.01	762.2	44.2	6.8	91	ssw.			1		5	ssw.		0.031	0.8	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.82	757.5	29.99	761.7	40.3	4.6	94	w.			1					0.091	2.3		M. Renou, Director.
Toulouse, Observatory	29.42	747.3	30.15	765.8	50.9	10.5	85	nw.			1		10	nw.		0	0	covered	M. Baillaud, Director.
Tours	29.79	756.6	29.97	761.2	52.2	11.2	85	w.			2		8	nw.	wnw.	0.110	2.8	rainy	M. de Tastes.
Versailles, Observatory	29.49	749.0	29.98	761.5	40.3	4.6	90	nw			1		10			0.130	3.3	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.97	761.3	30.12	765.1	57.2	14.0	60	sw.	5.8	2.6			4 k	e.	w.	0.138	3.5		M. Cartier, Director.
German.																			
Ansbach	28.41	721.6	29.91	759.7	36.3	2.4	82	w.			4		9	w.		0	0		Prof. Juedt.
Bamberg	29.00	736.6	29.84	757.9	36.7	2.6	82	w.			3		7 k		w.	0.120	3.2	rain & snow	Prof. Dr. Hoh.
Berlin	29.58	751.4	29.73	755.2	37.0	2.8	82	nw.			3		10			0.008	0.2		Meteorological Institute
Breslau	29.22	742.2	29.74	755.5	38.5	3.6	78	w.			5		9	wnw.		0.020	0.5		Royal University Obs'y
Carlsruhe	29.45	748.1	29.92	760.0	43.5	6.4	76	w.			2		10	sw.		0.110	2.8	raining	Albert Senz.
Cassel	29.09	738.8	29.80	756.9	38.8	3.8	83	nw.			2		7	n.		0.020	0.5		Dr. H. Möhl.
Frankfort-on-the-Main	29.47	748.6	29.85	758.1	41.7	5.4	83	sw.			1		10			0	0		Physical Society.
Friedrichshafen	28.52	724.3	29.97	761.1	41.9	5.5	77	sw.			5		10	w.		0.260	6.6	rain & snow	Wilhelm, Chief Tel.
Hamburg	29.76	755.8	29.85	758.1	33.8	1.0	85	ne.			3		6			0.118	3.0		E. Preiter.
Kiel	29.80	756.8	29.81	757.2	35.1	1.7	74	n.			2		10			0.028	0.7		Prof. Dr. G. Karsten.
Leipsic, Astronm'l Obs'y	29.36	745.8	29.79	756.7	39.9	4.4	77	nw.			3		9	wnw.		0.024	0.6	sprinkling	H. Leppig, Asst.
Magdeburg	29.58	751.3	29.77	756.2	38.5	3.6	87	wnw.			3		10	nw.		0.055	1.4	raining	Weather Observatory.
Memel	29.57	751.1	29.62	752.3	37.2	2.9	93	sw.			3		10 ks						Issermann.
Munich	28.08	713.1	29.93	760.2	38.5	3.6	73	nw.			4		8	nw.		0.354	9.0		Central Station.
Neufahrwasser	29.56	750.7	29.57	751.1	38.8	3.8	82	w.			2		10			0.071	1.8		A. Lothes.
Neustadt, Palatinate	29.35	745.4	29.87	758.7	43.5	6.4	55	ssw.			3		10			0	0		Prof. Dickenether.
Stuttgart	28.94	735.0	29.85	758.1	43.3	6.3	62	w.			5		8	w.		0.024	0.6		Prof. Dr. Schoder.
Wustrow	29.72	754.8	29.74	755.5	33.3	0.7	85	n.			4		10 s			0.051	1.3		Profs. Brandes & Reimer
Greek.																			
Athens	29.57	751.0	29.95	760.8	59.5	15.3		s.			2.5	0	8			imap.	imap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.91	759.7	29.96	761.0	79.1	26.2	66	sw.	19.0	8.5			4			0	0	d. clouds	
Deesa	29.47	748.4	29.93	760.3	92.4	33.6	19	ssw.	4.0	1.8			0			0	0	blue sky	
Bombay	29.90	759.5	29.94	760.5	80.4	26.9	78	nw.	15.0	6.7			0			0	0	blue sky	
Poona, Yarrowda	28.06	712.7	29.88	758.8	91.3	32.9	18	n.	14.0	6.3			2			0	0	d. clouds	
Belgaum	27.39	695.7	29.91	759.8	80.7	27.1	50	wsw.	10.0	4.5			4	n.	e.	0	0	d. clouds	
Lahore	29.22	742.2	29.98	761.5	71.8	22.1	54	n.	4.0	1.8			10			0	0	overcast	
Roorkee	29.01	736.9	29.92	759.8	78.7	25.9	24	w.	3.0	1.3			6	w.		0	0	d. clouds	
Agra	29.38	746.4	29.95	760.6	85.8	29.9	22	w.					0			0	0	blue sky	
Nagpur	28.88	733.6	29.91	759.8	87.2	30.7	31	calm	4.0	1.8			3	w.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p.sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Jubbulpore	28.61	726.6	29.97	761.3	78.4	25.8	36	e.					0			0	0	blue sky	
Lucknow	29.57	751.2	29.96	760 9	74.2	23.4	38	calm	0	0			0			0	0	blue sky	
Allahabad	29.64	752.7	29.95	760.8	76.8	24.9	47	calm	0	0			0			0	0	blue sky	
Patna	29.77	756.2	29.96	761.0	77.5	25.3	38	w.	3.0	1.3			0			0	0	blue sky	
Hazaribagh	27.91	708.8	29.95	760.7	71.1	21.7	45	wnw.	2.0	0.9			0			0	0	blue sky	
Cuttack	29.84	758.0	29.92	760.0	84.0	28.9	50	w.	2.0	0.9			5			0	0	d. clouds	
Calcutta, Alipore	29.02	759.8	29.94	760.4	77.5	25.2	56	nw.	1.5	0.7			1			0	0	d. clouds	
Dhubri	29.81	757.1	29.93	760.2	72.3	22.4	59	calm	0	0			7			0	0	d. clouds	
Chittagong	29.86	758.5	29.96	760.8	71.6	22.0	66	calm	2.6	1.2			1			0	0	d. clouds	
Sibsagar	29.61	752.0	29.95	760.8	66.7	19.3	80	sw.	2.0	0.9			0			0.58	14.7	blue sky	
Jeypore	28.52	724.3	29.96	760.9	83.7	28.7	24	wnw.	5.0	2.2			1	nw		0	0	blue sky	
Zanzibar	29.85	758.2	29.87	758 7	85.7	29.8	61	e.	5.4	2.4			5		ese.	0	0	d. clouds	
Bellary	28.43	722.1			90.8	32.7	25	n.	4	1.8		3 ck	0			0	0	d. clouds	
Trichinopoly	29.69	754.1			90.1	32.3	28	ene.	0.3	0.1		3	3			0	0	d. clouds	
ITALIAN.																			
Udine	29.43	747.6	29.85	758.2	51.1	10.6	43	w.	1.3	0.6			2			0	0		Prof. Giovanni Clodig.
Milan	29.35	745.4	29.88	758.9	54.1	12.3	20	n.	6.3	2.8			2			0	0		Prof. G.V.Schiapparelli
Padua	29.74	755.3	29.85	758.2	50.2	10.1	62	wsw.	1.8	0.8			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.3	29.87	758.8	55.6	13.1	8	nw.	3.8	1.7			0			0	0		Prof. F. F. Denza.
Genoa	29.69	754.0	29.88	758.0	55.6	13.1	17	n.	7.4	3.3			0			0	0		Prof. G. M. Garibaldi.
Pesaro	29.82	757.5	29.87	758.8	46.8	8.2	82	n.	11.2	5.0			7	nne		0.043	1.1		Prof. Luigi Guidi.
Florence	29.59	751.5	29.85	758.1	50.9	10.5	69	se.			2		3			0.039	1.0		Prof. Costantino Pittei.
Leghorn	29.72	754.8	29.79	756.6	55.6	13.1	42	nw.	1.8	0.8			1			0	0		Prof. P. Monte.
Rome	29.63	752.6	29.81	757.1	54.7	12.6	59	nnw.	0	0			0			0.047	1.2		Prof. P. Tacchini.
Lecce	29.50	749.2	29.76	755.8	53.6	12.0	62	wsw.	13.6	6.1			10	w.		0	0		Prof. C. de Giorgi.
Cosenza	29.00	736.5	29.91	759.6	49.6	9.8	74	sw.	2.5	1.1			10	wsw.		0.630	16.0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.67	753 6	29.92	760.0	55.8	13.2	60	nw.	9.8	4.4			10	nw.		0.031	0.8		Prof. G. Caccintore
Syracuse	29.85	758.3	29.90	759.4	61.0	16.1	58	w.	3.1	1.4			5	wnw.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.31	744.4	29.84	757.8	54.1	12.3	55	w.	4.9	2.2			4	nw.		0.122	3.1		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.12	764.9	30.15	765.8	33.6	0.9	96	w.			4		10 ks		w.	0	0	cloudy	H. Hattori.
Awomori	30.02	762.5	30.06	763.5	31.0	— 0.6	76	w.	17.7	7.9		0	8 s			0.003	0.1	cloudy	K. Ogawa.
Hakodate	30.03	762.7	30.04	763.0	26.8	— 2.9	82	nnw.	10.8	4.8		0	1 s			0	0	clear	Y. Souma.
Hamamatsu	30.12	765.0	30.22	767.5	37.9	3.3	63	w.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.30	769.5	30.31	769.9	37.7	3.3	73	n.	3.0	1.3		1cs;ck	0	w.		0	0	clear	Y. Okamoto.
Kagoshima	30.26	768.6	30.27	768.9	37.5	3.1	87	n.			2	0	0			0	0	clear	
Kanazawa	30.20	767.1	30.31	769.8	31.0	1.1	80	e.	5.4	2.4		0	4s;ks			0.080	2.0	fair	S. Endo.
Kioto	30.13	765 2	30.30	769.6	34.5	1.4	88	ne.	0.7	0.3			9 s			0	0	cloudy	M. Tojima.
Kochi	30.27	769.0	30.30	769.5	41 7	5.4	70	e.	4.4	2.0		0	0			0	0	clear	K. Kusunose.
Miasaka	30.30	769.5	30.32	770.2	38.8	3.8	88	nw.			1	0	0			0	0	clear	K. Masusaki.
Miyako	29.94	760.4	30.05	763.2	31.2	— 0.4	58	calm	0	0		0	0			0	0	clear	N.Honno & K.Suwa.
Nagasaki, I. M. Obs'y	30.12	765.0	30.34	770.6	37.6	3.1	86	calm	0	0		0	0			0	0	clear	
Nemuro	29.83	757.7	29.88	758.9	21.3	— 5.9	49	nw.	12.0	5.4		0	0			0	0	clear	A Shibuya.
Niigata	30.20	767.1	30.23	767.8	38.0	3.3	62	w.	16.4	7.3		0	5 ks		w.	0.020	0.5	½ cloudy	Satoo & Tomikawa.
Nobiru	30.09	764.3	30.11	764.7	35.3	1.8	71	nw.	22.1	9.8			9ks;s			0	0	cloudy	Yoelino & Midzushina.
Numadzu	30.13	765.3	30.17	766.3	35.0	1.7	80	ene.			2	0	0			0	0	clear	T.Ohgi.
Osaka	30.28	769.2	30.30	769.6	36.7	2.6	84	ne.	3.0	1.3		0	0			0	0	clear	H. Omura.
Sakai	30.30	769.7	30.31	769.9	37.9	3.3	86	sw.			2	0	6 ks		wnw.	0	0	fair	Yamawchi & Sakamoto.
Sapporo	29.91	759 8	29.98	761 6	26.1	— 3.3	98	n.	20.4	9.1		0	3 s		nw.	0.015	0.4	clear	S. Kimura.
Shimonoseki	30.16	766.1	30.31	769.8	38.9	3.8	82	nne.			1	0	0			0	0	clear	S. Sakano.
Wakayama	30.24	768.1	30.30	769.5	40.0	4.4	75	calm	0	0			9cl;ks			0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.77	756.1	29.96	761.0	82.0	27.8	66	e.	17.0	7.6		1 c	2 k			0.03	0.8	fair	The Staff.
MEXICAN.																			
Leon	24.40	619.7	30.28	769.1	44.6	7.0	63	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina
Mazatlan	29.76	755 8	30.02	762.5	67.0	19.4	100	e.	5.3	2.3		0	0			0	0	foggy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.92	760.0	29.92	760.0	42.3	5.7		nw.			4					0	0		
Groningen	29.89	759.3	29.95	760.7	36.7	2.6		nne.			1					0.063	1.6		
Helder	29.90	759.4	29.90	759.4	39.6	4.2		ne.			2					0	0		
Hellevoetsluis	29.89	759.3	29.89	759.3	50.0	10.0	67	wnw.			1					0.008	0.2		
Utrecht	29.85	758.3	29.91	759.7	43.2	6.2	90	w.			2		6			0.118	3.0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.2			79.0	26.1	83	n.	0	0			4			0.091	2.3		Lt.J.J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.83	757.6	29.89	759.2	36.7	2.6	62	calm	0	0			3			0	0		
Brono	29.91	759.7	29.95	760.7	32.0	0.0	76	calm			0		1			0	0		
Christiania	29.82	757.4	29.97	761.3	28.2	— 2.1	71	nne.	4	2			3			0	0		
Gjesvær	29.04	752.9	29.67	753.5	28.4	— 2.0		sw.			7		10			0.260	6.6	snowing	
Lodingen	29.83	757.6	29.87	758.8	30.4	— 0.9	92	sw.			4		9			0.028	0.7	snowing	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.02	762 5	30.11	764.8	61.3	16.3	59	sw.	4.9	2.2			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.82	757.4	30.16	766.1	53.8	12.1	66	e.	2.5	1.1			2	wnw.		0	0		The Staff.
Ponta Delgada, Azores	29.83	757.7	29.90	759.5	61.5	16.4	59	nw.	9.4	4.2			4			0.028	0.7		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.00	762.0	30.04	763.0	69.3	20.7	77	ne.			2		10			0.197	5.0		
San Salvador, Congo	28.05	712 4	29.85	758.2	86.2	30.1	61	sw.			2		6			0	0		
Serra da Estrella	25.33	643.4	30.10	764.4	46.2	7.9	29	s.	12.5	5.6			1			0	0		
RUSSIAN.																			
Akmolinski	29.22	742.3	30.48	774.1	—12.8	—24.9	91	sw.	2	1		5 c	0			0	0	light clouds	Major K. Lasarew.
Archangel	29.97	761.3	29.99	761.8	— 6.5	—21.4	86	e.	2	1			10			0	0		Capt. Sselliwerstow
Ashurada	30.33	770.3	30.23	767.9	47.3	8.5	62	nne.	13	6		0	0			blank	blank		
Astrakhan	30.25	768.4	30.17	766.4	38.5	3.6	60	s.	9	4		0	7 ks			0	0		Capt. Wisganow.
Baku	30.24	768.1	30.19	766.9	45.3	7.4	73	ssw.	22	10		0	2 ks			0	0		
Barnaul	29.89	759.2	30.46	773.7	— 4.9	—20.5	70	sw.	9	4			10			0.024	0.6		Meteorological Office.
Bielosersk	29.44	747.7	29.95	760.7	8.1	—13.3	62	calm	0	0		0	0			0	0		
Dorpat	29.52	749.7	29.78	756.4	13.3	—10.4	77	ne.	9	4		2 c	0			0	0		Observatory.
Ekaterinburg	29.06	738.1	30.12	765.0	5.0	—15.0	62	s.	9	4			10			0.047	1.2	solar corona	Meteorological Obs'y.
Elissawetgrad	29.40	746.8	29.86	758.4	45.7	7.6	73	calm	0	0		0	7 ks			0	0		
Kasan	29.58	751.2	29.87	758.7	4.5	—15.3	86	ene.	2	1			10			0.110	2.8	light snow	Observatory.
Kem	30.03	762.8	30.08	764.1	4.3	—15.4	86	calm	0	0			10			0	0	h'vy clouds	
Kertch	29.92	759.9	29.94	760.5	45.7	7.6	80	se.	9	4		0	8 k			0	0		Lagorio & Sastyres
Kieff	29.13	740.0	29.78	756.5	39.2	4.0	93	se.	7	3		c	3 ks			0.047	1.2		Observatory.
Koslov	29.16	740.6	29.68	753.8	32.2	0.1	88	ssw.	9	4			10 s			blank	blank		
Lgov	29.21	742.0	29.52	757.3	34.5	1.4	94	wsw.	13	6			10			0.083	2.1	light fog	R.I.Seaweljew, Engin'r.
Libau	29.61	752.0	29.63	752.6	31.5	— 0.3	83	ene.	11	5			10			0.039	1.0		[illegible]
Lugan	29.66	753.4	29.87	758.7	41.7	5.4	66	sw.	22	10			9			0	0	light clouds	Meteorological Obs'y
Moscow	29.13	740.0	29.64	752.9	18.9	— 7.3	86	w.	4	2			10 n			0.079	2.0	snowing	Meteorological Obs'y
Nertschinsk	27.58	700.6	30.02	762.6	15.1	— 9.4	73	calm	0	0			7			0	0		
Nikolaiev	29.76	755 9	29.83	757.7	49.5	9.7	78	sw.	9	4		0	0			0	0		Capt. Kurdakow.

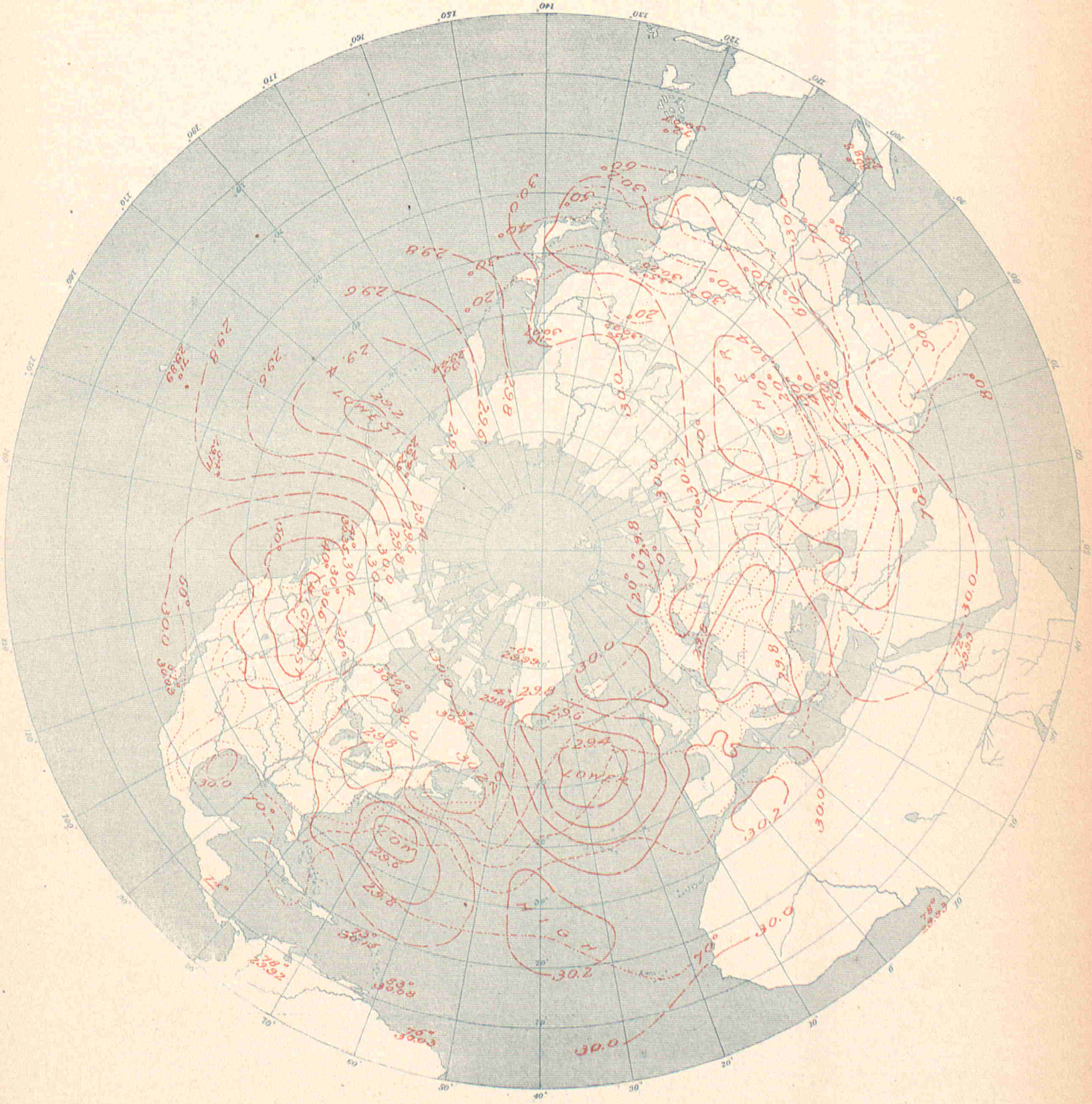
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	29.98	761.5	30.07	763.7	—10.7	—23.7	66	w.	2	1		0	8						Iwanow.
Pekin, China	30.12	765.0	30.26	768.6	34.5	1.4	46	calm	0	0		0	0						Siang.
Petro-Alexandrovsk	30.10	764.6	30.48	774.2	30.7	— 0.7	29	e.	1.1	0.5			0						Walter.
Petrozavodsk	29.76	756.0	29.98	761.5	4.5	—15.3	72	se.	7	3		0	0			0.004	0.1		Dr. Bergmann.
Pinsk	29.26	743 1	29.76	755.9	41.7	5.4	71	ssw.	9	4		0	4 ks			0.020	0.5	light clouds	
Poti	30.05	763.3	30.08	764.1	58.1	14.5	68	e.	4	2			0			0	0		
St. Petersburg	29.82	757.5	29.85	758.1	10.4	—12.0	71	ene.	11	5		0	0			0.008	0.2		Central Physical Obs'y.
Samarkand	27 79	705.8	30.45	773.3	22.8	— 5.1	88	calm	0	0			10 n					snowing	Dresch.
Semipalatinsk	29.84	757.9	30.59	777.0	— 4.5	—20.3	74	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.70	754.3	29.91	759.7	50.9	10.5	62	ssw.	27	12		5 cs	0			0	0		
Starol Bykhov	29.13	739.9	29.69	754.2	41.2	5.1	71	ssw.	11	5			9			0.067	1.7		Carl Hagen.
Tashkend, Laboratory	28.65	727.8	30.47	773.9	21.6	— 5.8	82	calm	0	0			10 n					h'vy clouds.	Tersch, A. M
Tiflis	28.76	730.6	30.23	767.9	41.4	5.2	49	se.	2	1		0	0			0	0		Physical Observatory.
Vernoe	27.74	704.7	30.47	774.0	15.1	— 9.4	68	calm	0	0		2 c	0						Sarlono.
Viatka	29.26	743.2	29.97	761.1	— 3.6	—19.8	65	ese.	2	1			2			0	0		
Vladivostock	30.13	765.4	30.20	767.1	16.0	— 8.9	92	calm	0	0			0			0	0		
Warsaw	29.27	743.5	29.71	754.5	39.0	3.9	82	w.	16	7		c	10 ks					heavy clouds	Astronomical Obs'y.
Yeniseisk	29.84	758.0	30.17	766.2	— 4.2	—20.1	67	w.	11	5			0			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	28.99	736.3	29.52	749.8	17.7	— 7.9	83	e.	11.8	5.3			10 n		e.	0.20	5.1	snowing	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.98	761.4	30.09	764.2	56.1	13.4	61	w.				2 c	0			0	0		B.J.Elin.
Bilbao, Met. Obs'y	30.07	763.7	30.13	765.2	59.4	15.2	60	ne.	2.5	1.1		0	0			0	0	clear	Prot. Manuel de Naveran
Burgos, Met. Obs'y	27.18	690.3	30.21	767.3	47.3	8.5	66	sw.	3.1	1.4		0	2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.93	709.3	30.19	766.9	50.9	10.5	63	w.	5.1	2.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.98	761.5	30.11	764.8	66.0	18.9	60	wsw.	1.3	0.6		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.16	740.6	30.06	763.7	51.6	10.9	77	se.	6.3	2.8			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.07	763.8	30.14	765.5	68.0	20.0	62	nnw.	1.3	0.6		0	4 k;s		n.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	30.01	762 3	30.07	763.8	72.2	22.3	74	ese.	11.0	4.9		0	8			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.11	764.8	30.21	767.4	62.2	16.8	61	nw.	2.8	1.3		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.06	763.4	30.15	765.7	73.0	22.8	77	s.	3.6	1.6		1 s	3 k	s.	nw.	0	0	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	30.05	763.3	30.09	764.3	— 0.1	—17.8	95	n.			2		0			0	0		
Umea	29.97	761.2	30.02	762.5	17.2	— 8.2	76	nw.			4		9			0	0		
Hernosand	29.95	760.6	30.00	761 9	21.9	— 5.6	80	nne.			2		10			0.039	1.0		
Stockholm	29.61	754 6	29.89	759.1	26.4	— 3.1	59	nne.			4		2			0.035	0.9		
Wisby	29.63	752.6	29.69	754.1	30.6	— 0.8	85	e.			6		7			0.134	3.4		
Sub-series.																			
Upsala	29.80	756.9	29.89	759.1	27.5	— 2.5	77	nne.	11.9	5.3			9		ne.	0.004	0.1		H.H.Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			29.96	760.9	56.8	13.8	49	sw.	13	6.0			4		sw.	0	0		The Observatory.
Valona			29.88?	758.9?	59.4	15.2		sw.			3		8			0	0	¾covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.15	765.8	60.1	15.6	65	ne.			2		2 k		se.	0	0		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.82	757 4	29.90	759.4	38.4	3.6	78	s.	4	1.8			10 n			0.01	0.3	light snow.	J. O. Barnes.
Alpena, Michigan	29.06	738.1	29.77	756.1	25	— 3.9	88	ne.	6	2.7			10 n			0.13	3.3	light snow.	Jas. J. Fitzgerald
Apache, Fort, Arizona	25.00	635.0	30.10	764.5	31.3	— 0.4	78	ne.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.52	699.0	30.56	776 2	31.9	— 0.1	79	nw.	8	3.6		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	28.81	731.8	30.03	762.7	46.4	8.0	51	w.	10	4.5		3 cs	0	w.		0	0	clear	S. W. Beall.
Atlantic City, New Jersey	29.76	755.9	29.77	756.1	38.0	3.3	100	ne.	13	5.8			10 s			0.15	3.8	cloudy	B.A.Blundon.
Augusta, Georgia	29.82	757.4	30.02	762 5	45.5	7.5	80	calm	0	0		10 cs	hz.	sw.		0	0	cloudy	W.J.Evans.
Baltimore, Maryland	29.80	756.9	29.85	758.2	42.3	5.7	93	n	3	1.3			fg.			0.04	1.0	dense fog	Geo. W. Felger.
Barnegat City, New Jersey	29.78	756.4	29.80	756.9	37.0	2.8	100	ne.	16	7.2			10n;fg		ne.	0.03	0.8	light rain	F.L.Johnson.
Bennett, Fort, Dakota	28.50	723.9	30.23	767.8	32.7	0.4	81	nw.	14	6.3		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.63	701.8	30.63	778.0	34.6	1.4	85	nw.	10	7.2			10 s		nw.	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.24	717.3	30.22	767.6	31.0	— 0.6	88	nw.	13	5.8			10 s		nw.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.79	756.7	29.82	757.4	39.0	2.2	89	ne.	24	10.7			10 s		ne.	0.01	0.3	cloudy	J. T. Elker.
Boise City, Idaho	27.48	698.0	30.44	773.2	37.0	2.7	89	n.	4	1.8		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.76	755.9	29.92	760.0	32.0	0.0	100	ne.	13	5.8			10 n		ne.	0.23	5.8	light snow	O. B. Cole.
Brownsville, Texas	29.91	759 7	29.97	761.2	61.4	16.3	93	s.	11	4.9		3 cs	0			0	0	clear	John McGlone.
Buffalo, New York	28.95	735.3	29.74	755.4	35.1	1.7	89	s.	6	2.7			10 n			0.28	7.1	light rain	Wm. Finn.
Buford, Fort, Dakota	28.16	715.3	30.37	771 4	26.5	— 3.1	82	nw.	21	9.4		0	6 s		nw.	0	0	fair	A. Schneider.
Cairo, Illinois	29.66	753.4	30.08	764.0	41.8	5.4	75	n.	7	3.1		0	0			inap.	inap.	clear	W. H. Ray.
Canby, Fort, Washington Ter	30.30	769.6	30.50	774.7	41.2	5.1	91	n.	4	1.8		0	fg.			0	0	clear	J.H.Young.
Cape Henry, Virginia	29.82	757.4	29.84	757.9	42.0	5.6	100	w.	11	4.9			fg.			0	0	dense fog	A. K. Alderson.
Cape May, New Jersey	29.77	756.1	29.80	756.9	43.0	6.1	93	n.	9	4.0			10 s			0.02	0.5	cloudy	W.E.Smith.
Cape Mendocino, California	29.40	746.7	30.10	764.5	57	13.9	69	calm	0	0		0	0			0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	50.0	13.3	94	nw.	7	3.1		0	0			inap.	inap.	clear	G. W. Davis.
Charleston, S. Carolina	29.90	759 4	29.96	761.0	50.0	10.0	71	w.	8	3.6		3 ck	fg.			0.07	1.8	clear	J. H. Smith.
Charlotte, N. Carolina	29.04	737.6	29.93	760.2	41.0	5.0	87	sw.	4	1.8		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.18	741.2	30.04	763.0	44.5	6.9	68	w.	3	1.3		1 cs	slc.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.04	610 6	30.31	769.9	26.8	— 2.9	76	ne.	8	3.6			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.18	741.2	29.93	760 2	26.1	— 3.3	72	nw.	4	1.8		0	0			inap.	inap.	clear	Wm. Norrington.
Chincoteague, Virginia	29.78	756.4	29.80	756.9	42.7	5.9	100	nw.	7	3.1			10s;fg		n.	0.13	3.3	cloudy	O. F. Dickens
Cincinnati, Ohio	29.20	741.7	29.89	759.2	41.0	5.0	69	w.	8	3.6			10 s		w.	0.02	0.5	cloudy	L.Dunne.
Cleveland, Ohio	28.99	736.3	29.78	756.0	34.0	1.1	88	w.	10	4.5			10 s		w.	0.03	0.8	cloudy	W.Line.
Columbus, Ohio	28.92	734.6	29.82	757 4	35	1.7	73	sw.	14	6.3			10 s		sw.	0.02	0.5	cloudy	F.T. Williams
Concho, Fort, Texas	28.03	711.9	30.05	763.3	37.5	3.1	82	w.	3	1.3		0	7 s			0	0	fair	C. E. King.
Custer, Fort, Montana	27.14	689.3	30.50	774.7	30	— 1.1	88	n.	4	1.8		0	5 ks			0	0	fair	W.J.Daily.
Davenport, Iowa	29.30	744.2	30.00	762.0	28	— 2.2	74	w.	5	2.2		4 ck	hz.	w.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.17	639 3	30.13	765.3	51.4	10.8	71	se.	4	1.8		0	6 s		se.	0	0	fair	J. Williams.
Dayton, Washington Ty	28.77	730.7	30.59	777.0	32	0.0	94	ne.	1	0.4		0	0			0	0	clear	H.S.Blandford.
Deadwood, Dakota	25.50	647.7	30.42	772.7	27.2	— 2.7	77	w.	1	0.4		6 k	0	w.		0	0	fair	G.Kingsbury.
Delaware Breakwater, Del.	29.78	756 4	29.80	756.9	38.6	3.7	94	nw.	5	2.2			10s;fg			0.01	0.3	cloudy	G.A.Martin.
Denver, Colorado	24.78	629.4	30.30	769.6	30.0	— 1.1	100	n.	24	10.7			10 n			0.12	3.0	light snow	F. M. Neal.
Des Moines, Iowa	29.09	738.9	30.06	763.5	32.6	0.3	70	calm	0	0		7 ck	3 s	nw.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.01	736 8	29.76	755 9	31.3	— 0.4	88	nw.	12	5.4			10 s		nw.	0.15	3.8	cloudy	N.B.Conger.
Dodge City, Kansas	27.41	696.2	30.15	765.8	42	5.6	48	n.	12	5.4		10 cs	0	w.		0	0	cloudy	J.E.Lanouette.
Dubuque, Iowa	29.26	743.2	30.02	762 5	21.2	— 6.0	61	sw.	3	1.3		0	7ks;s		s.	0	0	fair	J. Harvey Smith
Duluth, Minnesota	29.18	741.2	30.00	762.0	27.0	— 2.8	77	calm	0	0			10 s			0.07	1.8	cloudy	E.R.Brace.
Eastport, Maine	30.06	763.5	30.13	765.3	26.0	— 3.3	82	e.	14	6.3			10 s		e.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.19	690.6	30.09	764.3	33.0	0.6	71	nw.	3	1.3		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.23	666.2	30.11	764.8	50.2	12.9	29	nw.	5	2.5		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.97	735 8	29.74	755.4	35.0	2.2	89	w.	9	4.0			10 n			0.16	4.1	light rain	C. A. Shaw.
Escanaba, Michigan	29.13	739 9	29.85	758.2	22.0	— 5.6	87	nw.	10	4.5			10 n		nw.	0.23	5.8	light snow	L.M.Pindell.
Fort Smith, Arkansas	29.56	750.8	30.06	763.5	41.3	5.2	94	e.	4	1.8		0	3 s			0	0	clear	J. B. Campbell.
Galveston, Texas	30.01	762.2	30.05	763.3	60.4	15.8	86	s.	6	2.7		0	1 s			0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.10	739.1	29.81	757.2	30.0	— 1.1	82	w.	16	7.2			10 n		w.	0.08	2.0	light snow	Joseph E. Muelle
Grant, Fort, Arizona	25.22	640.6	30.08	764.0	45.6	7.6	50	e.	6	2.7		4 ck	0	sw.		0	0	fair	Chas. A. Read.
Hatteras North Carolina	29.83	757.7	29.84	757.9	45.0	7.2	100	nw.	12	5.4		0	7 k		nw.	0.41	10.4	fair	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Helena, Montana	26.19	665.2	30.54	775.7	33	0.6	81	w.	4	1.8		0	7 s			0.08	2.0	fair	S. W. Morrison.
Huron, Dakota	28.61	726.7	30.13	765.3	30.4	— 0.9	81	nw.	11	4.9		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.07	738.4	29.92	760.0	31.8	— 0.1	70	nw.	11	4.9			10 s		nw.	0.04	1.0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.97	761.2	30.00	762.0	58.1	14.5	91	se.	11	4.9		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	30.04	763.0	30.09	764.3	50.2	10.1	88	w.	2	0.9		0	fg.			inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	29.34	745.2	30.04	763.0	32.2	0.1	80	nw.	1	0.4		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	65.5	18.6	58	n.	12	5.4		0	4 ks		n.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	29.84	757.9	29.86	758.4	43.6	6.4	95	nw.	7	3.1			10s;fg			0.12	3.0	cloudy	Wesley Blake.
Knoxville, Tennessee	28.90	734.0	29.98	761.5	42.3	5.7	69	sw.	10	4.5		0	2 s			inap.	inap.	clear	J. A. Cody.
La Crosse, Wisconsin	29.15	740.4	29.99	761.7	21	— 6.1	70	sw.	4	1.8		0	2 s		w.	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.16	740.7	30.11	764.8	33	0.6	80	calm	0	0		9 cs	0			0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.74	755.4	30.61	777.5	32.0	0.0	78	calm	0	0		0	0			0.04	1.0	clear	C. E. Butler.
Little Rock, Arkansas	29.75	755.6	30.08	764.0	46.0	7.8	76	nw.	1	0.4		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.70	754.4	30.10	764.5	53.5	11.9	83	ne.	4	1.8		5 cs	0			0	0	fair	T. S. Collins.
Louisville, Kentucky	29.34	745.2	29.93	760.2	40.3	4.6	69	w.	14	6.3			10 s		w.	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.12	739.6	29.84	757.9	34.0	1.1	78	calm	0	0		0	2s;fg			0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.12	739.6	29.82	757.4	23.5	— 4.7	94	nw.	5	2.2			10 s			inap.	inap.	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.88	758.9	29.89	759.2	43.7	6.5	96	w	8	3.6		4 cs	0	w.		0	0	fair	William Daly.
Maginnis, Fort, Montana	25.89	657.6	29.64	752 8	26.4	— 3.1	56	nw.	12	5.4			10 n		nw.	0.01	0.3	light snow	F. Burke.
Marquette, Michigan	29.12	739.6	29.90	759.4	23.0	— 5.0	88	nw.	10	4.5			10 s			0.10	2.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.71	754.6	30.06	763.5	48.1	8.9	67	w.	4	1.8			10 s			inap.	inap.	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.11	739.4	29.91	759.7	21.2	— 6.0	74	nw.	12	5.4		0	0			0.23	5.8	clear	S. W. Rhode.
Mobile, Alabama	30.05	763.3	30.09	764.3	50	10.0	74	calm	0	0		2 c	sk.			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.80	756.9	30.04	763.0	46	7.8	71	sw.	4.	1.8		1 cs	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.94	735.1	30.04	763.0	26.5	— 3.1	86	se.	3	1.3			10 s			0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.53	597.7	30.15	765.8	18.0	— 7.8	93	s.	28	12.5			10n;fg		s.	0.07	1.8	light snow	Edwd. A. Beals.
Nashville, Tennessee	29.41	747.0	30.02	762.5	44.8	7.1	76	w	7	3.1		0	0			inap.	inap.	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.74	755.4	29.86	758.4	31.5	— 0.3	100	n.	12	5.4			10 n		n.	0.35	8.9	light snow	J. H. Sherman.
New London, Connecticut	29.81	757 2	29.86	758.4	31.8	1.0	100	ne.	8	3.6			10 n		ne.	0.31	7.9	heavy rain	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.10	764.5	55.0	12.8	72	sw.	2	0.9		3 c	0	w.		0	0	clear	M. Herman.
New York, New York	29.67	753.6	29 86	758 4	34.8	1.6	100	ne.	14	6.3			10n;fg			0.10	2.5	light rain	H. J. Penrod.
Norfolk, Virginia	29.80	756.9	29.84	757.9	44.5	6.9	100	nw.	2	0.9			fg.			0	0	dense fog	Wm. Davis.
North Platte, Nebraska	27.15	689.6	30.25	768.3	38.0	3.7	61	nw.	10	4.5			10 s			0	0	cloudy	J. J. Mc Lean.
Olympia, Washington Ter	30.53	775.4	30.57	776.5	44.0	6.7	83	n.	3	1.3		0	9 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.83	732.3	30.10	764.5	34.0	1.1	74	nw.	3	1.3		0	0			0	0	clear	A. Pollak
Oswego, New York	29.42	747.3	29.77	756.1	38.2	3.4	75	se.	7	3.1			10 s		s.	0.09	2.3	cloudy	J. G. Linsley.
Palestine, Texas	29.46	748.3	30.04	763.0	53.3	11.8	80	s.	7	3.1		0	3 s			0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.06	763.5	30.10	764.5	49.2	9.6	91	w	2	0.9		2 cs	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.73	755.1	29.84	757.9	30.0	3.9	94	ne.	11	4.9			10s;fg			0.23	5.8	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.63	447.8	30.35	770.9	7.0	—13.9	100	n.	2	0.9			10 n			0.04	1.0	light snow	H. Hall.
Pittsburg, Pennsylvania	28.91	734.3	29.77	756.1	40.5	4.7	82	s.	10	4.5		0	7 s		sw.	0.03	0.8	fair	O. D. Stewart
Poplar River, Montana					16.7	— 8.5	91	n.			4	0	0			0	0	clear	G. A. Garden.
Port Huron, Michigan	28.97	735.8	29.70	754.4	29.9	— 1.2	92	w.	18	8.0			10 n		w.	0.13	3.3	light snow	M. H. Perry
Portland, Maine	29.95	760.7	30.00	762.0	30.0	— 1.1	88	n.	8	3.6			10 n		n.	0.08	2.0	heavy snow	W. W. Eichelberger.
Portland, Oregon	30.41	772.4	30.48	774.2	39.2	4.0	91	nw.	2	0.9		0	2 s			0.01	0.3	clear	M. L. Hearne.
Prescott, Arizona	24.78	629.4	30.14	765.5	36.2	2.3	82	sw.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.86	758.4	29.90	759.4	36.0	2.2	81	e.	10	4.5			10 s		sw.	inap.	inap.	cloudy	C. N. Kitchel.
Red Bluff, California	29.78	756.4	30.15	765.8	48	8.9	86	n.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.76	755.9	30.01	762.2	56.0	13.3	92	se.	2	0.9		0	0			0	0	clear	L. G. Schultz.
Rochester, N. Y	29.06	738.1	29.76	755.9	36	2.2	79	s.	4	1.8			10ks;sh		sw.	inap.	inap	cloudy	E. W. McGann.
Roseburg, Oregon	29.80	756.9	30.37	771.4	42.2	5.7	84	calm	0	0			10 s		w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	30.04	763.0	30.11	764.8	50.5	10.3	93	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.40	746.7	30.06	763.5	34.7	1.5	82	nw.	11	4.9		hz.	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.26	743.2	29.29	744.0	24	— 4.4	100	n.	8	3.6			10 n			0.03	0.8	light snow	Fred. H. Clarke.
St. Paul, Minnesota	29.08	738.6	30.01	762.2	17.0	— 8.3	83	calm	0	0			10 s		w	0.01	0.3	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.21	741 9	30.18	766.6	17	— 8.3	91	ne.	10	4.5			10 n			0.05	1.3	light snow	C. B. Dilley.
Salt Lake City, Utah	25.68	652.3	30.24	768.1	35.6	2.0	79	w.	8	3.6			10 n			0.13	3.3	light snow	J. Craig.
San Diego, California	30.00	762.0	30.07	763.8	54.0	12.2	77	ne.	4	1.8		6 cs	0	w.		0	0	fair	F. R. Day.
Sandusky, Ohio	29.05	737.9	29.77	756.1	33	0.6	68	w	20	8.9			10 ks		w.	0.04	1.0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.82	757.4	29.86	758.4	36.0	2.2	89	ne.	18	8.0			10 n		e.	0.04	1.0	light rain	V. P. Chappel.
Sanford, Florida	30.05	763.3	30.10	764.5	49.5	9.7	89	nw.	3	1.3		0	fg.			0	0	clear	J. B. Marbury
San Francisco, California	29.99	761.7	30.06	763.5	54.0	12.2	85	n.	4	1.8		1 cs	0	w.		0	0	clear	N. Gorom.
Savannah, Georgia	29.93	760.2	30.02	762.5	49	9.4	63	sw.	9	4.0		1 c	fg.	w.		0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.81	681.0	30.66	778.7	32	0.0	81	w.	6	2.7		0	8 k			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.82	757.4	30.00	762.0	53.6	12.0	51	se.	3	1.3			10 s		se.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	30.28	769.1	30.35	770.9	40.7	4.8	82	e.	2	0.9			10 n		e.	0.93	23.6	light rain	F. W. Fickett.
Smithville North Carolina	29.86	758.4	29.90	759.4	49.0	9.4	93	w.	7	3.1		0	hz.			0.02	0.5	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.46	722.9	30.60	777.2	27.2	— 2.7	87	se	1	0.4			fg.			0	0	dense fog	D. Moore.
Springfield, Illinois	29.31	744.5	30.04	763.0	35.0	1.7	69	nw	8	3.6		0	8 s		nw.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26 92	683.8	30.04	763.0	49.0	9.4	34	n.	2	0.9			10 s			0	0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	30.45	773.4			43.1	6.2	92	e	26	11.6		0	1 s		e.	0.02	0.5	clear	R. Connor.
Thomas, Camp, Arizona	27.27	692.6	30.10	764.5	41.5	5.3	57	s.			1	0	3 s			0	0	clear	R. O. Lord.
Toledo, Ohio	29.05	737.9	29.79	756.7	33	0.6	78	w.	12	5.4			10 s		w.	0.04	1.0	cloudy	A. Buell.
Unalaska, Alaska	29.17	740.9	29.19	741.4	34	1.1	88	nw.	18	8.0			10 n			0.41	10.4	light snow	Samuel Applegate.
Vicksburg, Mississippi	29.82	757.4	30.09	764.3	54	12.2	74	s	1	0.4		2 c	3 s	w.	sw.	0	0	fair	C. Dill.
Washington, D. C.	29.74	755.4	29.86	758.4	40.1	4.5	99	e.	2	0.9			10s;fg			0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.95	659.1	30.07	763.8	26.5	— 3.1	78	nw.	5	2.2		0	1 s			0	0	clear	F. H. Brandenburg.
Wilmington, N Carolina	29.84	757.9	29.90	759.4	45.0	7.2	83	w.	3	1.3		0	2s; fg			inap.	inap.	clear	L. H. Albrecht.
Yankton, Dakota	28.73	729.7	30.15	765.8	33.0	0.6	81	nw.	8	3.6		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.83	757.7	29.98	761.5	55.1	12.8	76	calm	0	0		3 c	0	w.		0	0	clear	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka	29.42	747.3	29.44	747.8	30.3	— 0.9	97	se.	12	5.4			10 n			0.11	2.8	light snow	George Cheruick.
Bluefields, Nicaragua, C. A.					76	24.4		nw.			1	1 c	3 ks		ne.	0.25	6.3	fair	W. H. Jackson.
Bogota, U. S. C.	22.02	559.2			56.3	13.5	90	w.	2	1			9 pk			0.079	2.0	covered	Joaquin Gomez.
Chimo, Fort, Ungava	29.86	758.4	30.02	762.5	— 3	—19.4	100	calm	0	0			10 s		se.	0.02	0.5	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.			30.10	764.5	68.0	20.0	85	n.	2	0.9		0	0			0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	76	24.4	86	ne.			3	5 ck	5 k	e.	e.	0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.36	745.7	29.92	760 0	78	25.6	89	n.			1		10 ks		n.	0	0	cloudy	Francisco J. Olsner.
Rivas, Nicaragua, C. A.					74	23.3	88	ne.			1	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	30.05	763.3	30.12	765.0	—26.0	—32.2		sw.	13	5.8		1 c	0	sw.		0	0		Fortescue & Wood.
U. S. OF COLOMBIA. *(Sub series).*																			
Colon	30.02	762.4	30.03	762.7	75.9	24.4	90	n.	11.2	5.0		0	5 k		n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.98	761.4	30.07	763.7	71.2	21.8	91	nw.			3	0	3 ks		n.	0	0	fair	Antonio Fabre.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 41° 10′, W. 63° 47′ †	29.96	761.0	53	11.7		e.			8		10			6 h'r	6 h'r	high	e.	heavy rain
S. S. Alvo, Kingston, Jamaica, W.I.*	30.10	764.5	69	20.6		var.			3–4		7		e.	2 h'r	2 h'r			fair.
S. S. Ailsa, N. 18° 54′, W. 77° 46′			81.5	27.5	91	calm			0		0			0	0	sm'h		clear.
Schr. Arthur Burton, Fernandina, Fla †	30.03	762.7				wsw.			1		5		wsw.	0	0	sm'h		fair.
S. S. Alps, N. 31° 01′, W. 74° 18′ *†	29.85	758.2	70	21.1		nw.			6		4		nw.	rain	rain		nw.	
S. S. Anchoria, N. 52° 17′, W. 31° 00′ †	29.30	744.2				w.			4		5		w.	16 h'r	16 h'r	high	ese.	fair.
S. S. Circassian, N. 41° 30′, W. 63° 28′	30.27	768.8	22	— 5.6		nw.			3		3		nw.			2	sse.	blue sky.
S. S. Canada, (Br.) N. 40° 32′, W. 70° 36′			43	6.1	100	ne.			5		10		ne.	0	0	mod.	ne.	misty.
S. S. Canada, (Fr) N. 47° 15′, W. 35° 50′	29.44	747.8	42.8	6		nw.			4		n.		n.	0	0	h'vy	nw.	cloudy.
S. S. Chalmette, Algiers, La			56	13.3		sw.			3		2			0	0			clear.
S. E. J. Spicer, N. 40° 00′, W. 69° 18′	29.74	755.4	52	11.1	100	ne.			7		10		ne.	6 h'r	6 h'r	mod.	ne.	raining.
S. S. France, N. 41° 13′, W. 65° 10′ *†	29.96	761.0				e.			6		10		e.	rain	rain	large	e.	gloomy.
S. S. Frisia, N. 40° 38′, W. 57° 03′			48	8.9		ene.			6		10		e.	0	0	sm'h	e	covered.
S. S. Grecian, Portland, Me	30.04	763.0	31	— 0.6	89	n.			1		10			7 h'r	7 h'r			hazy.
Bg. George, N. 34° 47′, W. 69° 35′ *†	29.50	749.3				nnw.			8		10		nnw.	rain	rain	r'gh	n.	clearing.
S. S. Hohenstaufen, N. 41° 10′, W. 61° 46′			52.5	11.4	96	e.			5		10		e.	1 h'r	1 h'r	mod.	e.	misty.
S. S. Helvetia, N. 40° 09′, W. 70° 35′			41	5.0		ne.			4		4		nne.	2 h'r	2 h'r	mod.	nne.	raining.
Bk. Idaho, N. 24° 45′, W. 80° 30′ *†	30.09	764.3				nnw.			4		0			0	0	sm'h		smoky
S. S. Iowa, N. 46° 49′, W. 36° 57′			44	6.7		wnw.			6		7		wnw.	2 h'r	2 h'r	r'gh	wnw.	squally.
Schr. Jennie N. Huddell, Wilmington, N.C †	29.98	761.5	46	7.8		ssw.			1		0			0	0			clear.
Bg. L. & W. Armstrong, N. 34° 51′, W. 63° 52′ †	29.54	750.3				ssw.			6		4		s.	3 h'r	3 h'r	high	s.	clearing.
S. S. Lone Star, N. 24° 25′, W. 83° 00′ *†	30.14	765.5	68	20.0		nw.			2		3		calm	0	0	sm'h		clear.
S. S. Lessing, N. 44° 13′, W. 40° 55′	29.89	759.2	48	8.9		nw.			6		9		nw.	½ h'r	½ h'r	cross	nw.	squally.
S. S. Mentmore, N. 41° 45′, W. 61° 59′*†	30.06	763.5	52	11.1		ne.			7		10			0	0	sm'h		cloudy.
S. S. Neckar, N. 49° 37′, W. 7° 20′	29.84	757.9	51.5	10.8	89	var.			3–4		4		var.	shr's	shr's	sm'h	var.	fair.
S. S. Orinoco, Hamilton, Bermuda			70	21.1		sw.			7		4		sw.	7 h'r	7 h'r			fair.
S. S. Oregon, (Br.) N. 48° 37′, W. 31° 30′*	29.37	746.0	48	8.9		wsw.			6		6		wsw.	5 h'r	5 h'r	long	w.	squally.
S. S. Ohio, (Am) N. 42° 12′, W. 62° 30′ *†	30.07	763.8	37	2.8	96	e.			5		10		e.	0	0	mod.	ese.	cloudy.
S. S. Pennsylvania, N. 39° 18′, W. 72° 28′ †	29.70	754.4	51	10.6	100	n.			4		6		nne.	1 h'r	1 h'r	mod.	w.	squally.
S. S. Polynesian, N. 49° 21′, W. 33° 53′	29.36	745.7	42	5.6		wnw.			6		6		wnw.	4 h'r	4 h'r	r'gh	wnw.	fair.
S. S. P. Caland, N. 47° 30′, W. 32° 56′*	29.40	746.7	46	7.8	84	wnw.			4–6		6		wnw.			6	wnw.	
S. S. Rhein, N. 44° 05′, W. 46° 43′						nnw.			5		6		nw.	0	0	sm'h	nw.	fair.
S. S. Rhynland, New York, N. Y	29.86	758.4	41	5.0	91	nne.			3		10		ne.	8 h'r	8 h'r			rainy.
S. S. Scandinavian, N. 48° 48′, W. 35° 23′	29.37	746 0	46	7.8		wnw.			6		8		wnw.	6 h'r	6 h'r	high	wnw.	showery.
S. S. Switzerland, N. 38° 36′, W. 60° 09′						se.			6		10		sse.	9 h'r	9 h'r	h'vy	se.	cloudy.
S. S. Samaria, N. 51° 00′, W. 13° 45′	29.61	752.1	54	12.2		ssw.			3		4		sw.	6 h'r	6 h'r	mod.	sw.	fair.
S. S. Valencia, Curacoa, W. I †	30.06	763.5	79	26.1	82	ene.			4		3		ene.	0	0			fair.
S. S. Belgenland, N. 49° 12′, W. 16° 14′			51	10.6	93	wsw.			6				w.			h'vy	w.	cloudy.
S. S. Pennland, N. 41° 30′, W. 52° 03′			32	0.0		nne.			4		4		nnw.	0	0	high	nnw.	fair.
S. S. State of Georgia, N. 53° 53 W. 21° 19′ †	29.24	742.7	51	10.6		s.			7		10		sw.	sh'rs	sh'rs	mod.	var.	squally.
Schr. Adda Doane, N. 18° 50′, W. 75° 00′ †	30.13	765.3				nnw.			2		4		n.	0	0	sm'h		fair.
Bg. Alcira, N. 32° 01′, W. 73° 36′			65	18.3		wnw.			5		2		wnw.	4 h'r	4 h'r	h'vy	wnw.	clear.
S. S. Cienfuegos, Cienfuegos, Cuba, W.I	30.08	764.0	87?	30.6?		ne.			1		0			0	0			clear
Bk. Chas. Stewart, Barcelona, Spain						sw.			2		2		w.	0	0	sm'h	s.	clear.
Bk. Cato, N. 41° 09′, W. 8° 43′†	30.18?	766.6?	58	14.4	88	calm			0		0			0	0	mod	nw.	hazy.
S. S. D. J. Foley, N. 28° 00′, W. 75° 00′*†	30.02	762.5	72	22.2	75	wnw.			5		5		nw.	3 h'r	3 h'r	r'gh	nnw.	fine.
S. S. Labrador, N. 49° 12′, W. 19° 37′ *†	29.45	748.0	48.2	9		wsw.			3		3		wnw.	12 minutes		large	w.	fair.
S. S. New York, N. 25° 20′, W. 84° 15′ *†	30.10	764 5	72	22.2		nw			2		2		nw.	0	0	sm'h		clear.
S. S. Pavonia, N. 50° 46′, W. 21° 42′	29.36	745 7	54	12.2	80	wsw.			6		3			8 h'r	8 h'r	mod.	w.	clear.
S. S. Rialto, N. 49° 17′, W. 27° 58′			48	8.9		w.			6		5		w.	2 h'r	2 h'r	high	w	fair.
S. S. Virginian, Liverpool Bar, Eng *	29.90	759.4	40	4.4		se.			4		0			0	0	sm'h		hazy.
S. S. Wieland, N. 45° 02′, W. 41° 48′			35	1.7		nw.			4–5		8		nw.			r'gh	nw.	sprinkling.
S. S. Weser, N. 49° 20′, W. 21° 57′	29.37	746.0	51.8	11.0		sw.			7		8		sw.	6 h'r	6 h'r	h'vy	sw.	cloudy.
S. S. Westphalia, N. 47° 10′, W. 30° 41′			49	9.4	93	ssw.			6		5		sw.	5 h'r	5 h'r	mod	s.	fair.
S. S. St. Laurent, Havre, France	29.91	759.7	49.1	9.5		w.			3		10			3 h'r	3 h'r			overcast.
U. S. Navy Yard, Portsmouth, N. H *	29.93	760.2	27	— 2.8	88	ne.	8	3.6			5		ne.					snowing.
U. S. S. Alliance, N. 17° 58′, W. 64° 00′	30.11	764.8	77	25.0	69	e.			3		2		e.	light	light			fair.
U. S. S. Kearsarge, Palermo, Sicily	29.92	760.0	57	13.9	69	wnw.			3		10		wnw.					cloudy.
U. S. S. Lancaster, Palermo, Sicily	29.93	760.2	57	13.9	94	wnw.			2–3		10		wnw.	mod.	mod.	sm'h		fair.?
U. S. S. New Hampshire, Newport, R. I	29.89	759.2	37	2.8		ene.			3		10					sm'h		drizzling.
U. S. S. Portsmouth, Fortress Monroe, Va	29.84	757 9	44	6.7	100	nw.			3		10							foggy.
U. S. S. Powhatan, N. 32° 52′, W. 78° 54′	29.95	760.7	59	15.0	76	w.			4		2					sm'h		hazy.
U. S. S. Quinnebaug, Leghorn, Italy	29.78	756.4	56	13.3	51	nw.			2		2		nw.			sm		fair.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.08	764.0	74	23.3	90	ene.			2		5		ene.	h'vy	h'vy	sm'h		fair.
U. S. S. Trenton, Port Said, Egypt	30.15	765.8	62	16.7	83	ene.			1		2							fair.
U. S. S. Vandalia, Curacoa, W. I	30.02	762.5	77	25.0	82	e.			2		8		e.					fair.
U. S. S. Yantic, Port Royal, S.C	30.01	762.2	57	13.9	69	w			4		0							hazy.
H. M. S. Alexandra, N. 35° 06′, E. 33° 57′	30.19	766.8	63	17.2	67	se.			1		1		e.					blue sky.
H. M. S. Alecto, N. 5° 56′, E. 1° 15′	29.89	759.2	84	28.9		sw.			2		2					3	sw.	d. clouds.
H. M. S. Boadicea, Accra, Gold Coast, Africa			82	27.8	91	ssw.			3		5					1	ssw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.67	753.6	66	18.9	68	ssw.			6		5		ssw.					squally.
H. M. S. Himalaya, N. 44° 39′, W. 63° 35′			15	— 9.4		ese.			2		9		wsw.					d. clouds.
H. M. S. Minotaur, Terranova, Sicily	29.92	760.0	55.5	13.1	57	wnw.			6		5							d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.93	760.2	77.9	25.5	88	ne.			2		10		nw.	6 h'r	6 h'r	6	ne.	overcast.
S. S. Lord Clive, N. 49° 34′, W. 24° 00′						sw.			5		6		sw.	shr's	sh'rs	mod.	w.	fine.
S. S. Carroll, Halifax, N.S			22	—5.6		e.			3		8		e.	0	0			cloudy.
S. S. Llandaff City, N. 50° 19′, W. 10° 48′*†	29.80	756.9	50	10 0		ssw.			6		10			8 h'r	8 h'r	mod.	sw.	drizzling
S. S. Scythia, N. 47° 25′, W. 34° 34′			51	10.6	86	nw.			6		8?		nw.	3 h'r	3 h'r	high	nw.	clear.?
S. S. Bohemia, N. 41° 12′, W. 61° 48′						ne.			3–10		10		ne.	4 h'r	4 h'r	long	ne.	raining.
S. S. Rugia, N. 49° 36′, W. 8° 21′			52	11.1		ssw.			5		4		ssw.	0	0	mod.	ssw.	fair.
S. S. Nessmore, N. 39° 47′, W. 61° 45′			50	10.0	86	ene.			6		6		ese.	6 h'r	6 h'r	cross	ese.	cloudy.
S. S. Archimedes, (Br) N. 45° 30′, W. 8° 22′	29.96	761.0				wsw.			4		7		wsw.	0	0	mod.	var.	fair.
S. S. Olbers, N. 39° 10′, W. 13° 20′	30.13	765.3	58	14.4	82	s.			4		10		sse.			sm'h		overcast.
S. S. Archimede, (It) N. 34° 15′, W. 30° 05′			66	18.9		wnw.			4		4		wnw.	0	0	mod.	nw.	fair.
S. S. Picqua, Corunna, Spain *†	30.10	764.5	53	11.7	80	ssw.			2				ssw.	0	0			cloudy.
S. S. Dominion, N. 42° 21′, W. 53° 40′ *†	30.15	765.8	37.5	3.1	76	ene.			3		10		e.			sm'h	wsw.	cloudy.
S. S. Texas, N. 38° 53′, W. 59° 35′ *†	29.85	758.2	58	14.4	88	wsw.			7		6			0	0	mod.	w.	cloudy.
S. S. Denmark, London, Eng †	29.91	759.7	53	11.7	93	nw.			4									
S. S. England, off Hardsey Id, Wales	30.00	762.0				e.			4		0			0	0	sm'h		clear.
S. S. Erin, New York, N. Y†	29.87	758.7	48?	8.9?		ene.			3		10		ene.	7 h'r	7 h'r			light rain.
S. S. City of Augusta, New York, N. Y						ene.			6		10		ne.	rain	rain			rainy.
S. S. Muriel, St. Lucia, W.I.*			78	25.6		ene.			2		0			0	0	sm'h		clear.
S. S. Waesland, Antwerp, Belgium			48	8.9		wnw.			3		8		wnw	0	0			squally.
S. S. Westernland, N. 50° 22′, W. 2° 27′	29.99	761.7	45	7.2	92	ene.			2		10		ene.	4 h'r	4 h'r	sm'h		cloudy.
S. S. W. A. Scholten, Rotterdam, Holland	29.95	760.7	49.1	9.5	70	ne.			2		5		nne.	0	0			fair.
S. S. State of Nebraska, N 54° 37′, W. 13° 20′ *†	29.60	751.8	44	6.7		ese.			7		10		se.			short	se.	squally.
S. S. Saxon, Philadelphia, Pa *†	29.85	758.2	38	3.3		ne.			1		10			0	0			threatening
S. S. Celtic, Liverpool, Eng *†	29.97	761.2	38	3 3		ene.			4		5		e.	0	0			foggy.
S. S. Lepanto, N. 50° 31′, W. 2° 04′	29.95	760.7	54	12.2		nw.			1		10		n.	16 h'r	16 h'r	sm'h		hazy.
S. S. Romano, Hull, England			42	5.6		nnw.			2		3		nnw.	0	0			fine.
S. S. Salerno, N. 46° 26′, W. 32° 51′			57	13.9		wnw.			5		8		wnw.	0	0	mod.	wnw.	squally.
S. S. Antonio Lopez, Malaga, Spain	30.16	766.1	59.5	15.3	63	ssw.			1		0			0	0	sm'h		clear.
Bgt. Achsah, N. 13° 20′, W. 59° 15′ †	30.11	764.8	77	25.0		e.			4		2		e.	0	0	long	e.	clear.
S. S. Armenia, N. 44° 26′, W. 31° 20′ *	29.59	751.6	53	11.7	80	wnw.			6		10		wnw.	1 h'r	1 h'r	r'gh	w.	overcast.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. S. Bracadale, N. 48° 49′, W. 20° 00′*	29.40	746.7	52	11.1		nne.			4		10		ne.	1½h'r	1½h'r	cf'd		raining.
Bk. Benjamin Dickerman, N. 12° 00′, W. 53° 30′			76	24.4		e.			5		8		ese.	0	0	r'gh	e.	fair.
S. Cornelius, N. 42° 38′ W. 38° 05′*†	29.97	761.2	50.0	10.0		nnw.			6		6		n.	0	0	cross	var.	squally.
S. Dora, N 39° 53′, W 45° 06′†	30.12	765.0	48.2	9.0		wnw.			4		3		nnw.	0	0	sm'h	nw.	gloomy.
S. David Stewart, Orchilla Island, Venezuela			79	26.1		e.			4		3		e.	0	0			
Schr. Edith R. Seward, N. 10° 33′, W. 55° 30′			80	26.7		ene.			3		5f		calm	0	0	r'gh	ene.	clear.?
Bk. Fred. W Carlon, Progreso roads, Mexico			80	26.7		s.			2		0			0	0	sm'h		clear
Bk. Gloire, N. 39° 10′, W. 73° 12′*	29.72	754.9	42	5.6		nne.			3		2f		wnw.	6 h'r	6 h'r	short	ese.	cloudy.?
Bk. Godeffroy, N. 13° 21′, W. 49° 14′	30.06	763.5	74.8	23 8	84	ne.			5		5 k		ene.	light	light	mod.	nne.e	squally.
Bk. George Davis, N. 48° 23′, W. 24° 30′*†	29.31	744.5				wsw.			6				wsw.	0	0	hv'y	sw.	covered.
Bk. Galeon, N. 50° 38′, E. 0° 45′†	29.91	759.7	46	7.8		wnw.			1		5		ne.	0	0	small	wnw.	misty.
Bk. Hattie G McFarland, N. 10° 00′, W. 79° 36′†	30.01	762.2	78	25.6		n.			4		3		ne.	0	0	long	se.	fine.
Schr. Jas. Slater, N. 37° 57′, W. 61° 00′*†	29.85	758.2				s.			7		10		s.	2 h'r	2 h'r	r'gh	se.	stormy.
Bg. John Welsh, jr., N. 30° 08′, W. 65° 05′†	29.67	753.6				wsw.			7		5		wsw.			h'vy	sw.	fair.
Schr. John Bird, N. 30° 44′, W. 70° 20′*†	29.79	756.7				w.			6		5		w	5 h'r	5 h'r	sharp	w.	raining.
Schr. Jenny Greenbank, N 37° 16′, W. 69° 10′*	29.41	747.0	59	15.0		nne.			9		9		nne.	hv'y	hv'y	rg'h	ne.	stormy.
S. S. Laurel, Key West, Fla†	30.11	764.8	66	18.9		n.			2		5		n.	0	0			fair.
Bg. L. F Munson, off Mattanzas, Cuba, W. I			70	21.1		n.			4		3		n.	0	0			fair.
S. S. Madrid, N. 43° 03′, W. 9° 23′†	30.13	765.3	54	12.2	86	ssw.			4		6		ssw.	0	0	mod.	wnw.	fair.
Schr. Minnie A. Bonsall, Brunswick, Ga						nw.			1				sw.	0	0			clear.
Schr. Maggie Abbott, Gonaives, Hayti, W. I*†	30.03	762.7							0–4		2		e.	0	0			clear.
Schr. Norena. Arroyo, Porto Rico, W. I						ene.			2		2.		ene.	2 h'r	2 h'r	light	ese.	showery.
Bk. Orpheus, N. 48° 30′, W. 32° 19′*	29.34	745.2	52	11.1		w.			6		8 k		nnw.			mod.	wnw.	squally.
Bk. Sunbeam, N. 40° 15′, W 41° 03′*†	30.02	762.5	53	11.7	93	wnw.			7		7		nw.	0	0	rg'h	nw.	cloudy.
Bgt. Sunlight, N. 10° 39′, W. 56° 45′†	30.02	762.5				ene.			4		4		e.	0	0	mod.	ne.	clear.
S. St. David, N 29° 18′, W. 41° 26′*†	30.40	772.1	68.3	20.2	65	calm			0		8		var.	0	0	long	ne	cloudy.
S. Stephen D Horton, Antwerp, Belgium†	29.94	760.5				wnw.			6		10		wnw.	0	0			cloudy.
S. Vincenzo Accame, N. 36° 52′, W. 40° 30′†	30.17	766.3	60.8	16		nnw.			5		6		nw.	1½hr	1½ hr	r'gh	nw.	fair.
Bk Western Chief, N. 38° 23′, W. 65° 54′						e.			9–10		10					9–10	e.	heavy rain.
S. S. City of Alexandria, Havana, Cuba, W. I*†	30.08	764.0	72	22.2		wnw.			5								nw	d. clouds
S. S. Strathleven, N. 50° 30′, W. 10° 35′*	29.76	755.9	53.0	11.7	93	s.			5		10					4	sw.	drizzling.
S. Frank N. Thayer, N. 37° 44′, W. 58° 29′*	29.88	758.9	61	16.1		se.			6		10		se.	5 h'r	5 h'r	mod.		raining.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.93	760.2	70	21.1	75	sse.			1		2		se.					clear.
H. M. S. Amethyst, S. 39° 49′, W. 58° 32′	29 85	758.2	60	15.6	63	se.			1		0	e.				3	se.	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	30.08	764.0	68	20 0	74	se.			7		0							squally.
H. M. S. Sylvia, S 42° 37′, W. 62° 49′	29.91	759.7	61	16.1	82	ene.			3		10					3	sse.	overcast.
H. P. M. S. Tejo, Noki, Guinea	30.03	762.8	85.6	29.8	90	calm			0		5			0	0			d. clouds.
H. P. M S Rainha de Portugal, Nova Redondo, Benguela	29.85	758.1	80.6	27.0	81	ssw.			6		2			0	0			blue sky.
H. P. M. S. Bengo, S. 2° 23′, W. 10° 36′	29.93	760.3	82.4	28.0	81	wsw.			3		4		sw.	0	0	3	wnw.	d. clouds.
S. S. Hevelius, Montevideo, Uruguay*†	30.05	763.3	77	25.0		sse.			4		3		sw.	0	0			clear.
S. S. Rosse, S. 23° 02′, W. 42° 13′	29.73	755.1	75	23.9	95	calm			0		4		ne.	0	0			hazy.
S. S. Leipzig, S. 12° 39′, W. 37° 49′*	30.06	763.5	91.0	32.8	88	e.			3		3		e.	0	0	sm'h	e.	fair.
Bk. Adelaide, S. 16° 57′, W. 36° 45′*†	30.07	763.8				ne.			5		1		ne.	0	0	mod.	ene.	clear.
Bk. Celestina, S. 30° 19′, W. 42° 45′*†	29.96	761.0				calm			0		0			5 h'r	5 h'r	light	ssw.	clear.
S. S. George S. Homer, S. 13° 39′, W. 32° 28′*†	30.14	765.5				e.			1		2		e.	0	0	sm'h	s.	
S. Grecian, S. 24° 33′, W. 26° 29′†	30.19	766.8	79	26.1	74	ne.			5		5f		ne.	0	0	sm'h		clear.?
S. Henry Failing, S. 22° 17′, W. 25° 55′*†	30.13	765.3	81	27.2	96	ene.			4		4		ene.	0	0	sm'h		clear.
Bk. Horace Scudder, Banana creek, Guinea*†	30.20	767 1	87	30.6		w.			2		5		w.	0	0			fair.
S. Ismir, S. 51° 30′, W. 54° 20′*†	29.40	746 7				ssw.			3		5		ssw.	1 h'r	1 h'r	h'vy	var.	fine.
Bkt. Levanter, Montevideo, Uruguay*	29.93	760.2	73	22.8		sse.			3		1		sw.	0	0	light	s.	hazy.
Bk. Winifred, S. 0° 06′, W. 39° 30′*†	30.00	762.0				ne.							ne.	0	0		ne.	
S. S. Teniers, S. 24° 48′, W. 39° 28′	29.90	759.4	79.0	26.1	86	n.			6	ck	9 k	n.	sw.	0	0	5	n.	d. clouds.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 32° 24′, E. 128° 30′	30.35	770.9			66	w.			2		5		w.			sm'h	w.	fair.
U. S. S. Essex, Canton, China	30.09	764.3	56	13.3		s.			1		2							clear.
U. S. S. Hartford, Honolulu, Sandwich Islands	29.89	759.2	71	21.7	85	calm			0		0			sh'rs	sh'rs			clear.
U. S. S. Juniata, N. 33° 36′, E 125° 25′	30.33	770.4	47	8.3	92	nw.			2		0			0	0	sm'h		clear
U. S. S. Monocacy, Amoy, China	30.19	766.8	55	12.8	74	sse.			2		0					sm'h		clear.
U. S. S. Palos, Tientsin, China	30.23	767.8	34	1.1		e.			2		0							clear.
H. M. S. Audacious, Tyshan bay, China	30.07	763.8	60	15.6	88	ne.			2		3	ne.						d. clouds.
H. M. S. Cleopatra, N. 24° 12′, E. 118° 16′			61	16.1	77	ese.			2		2					3		blue sky.
H. M. S. Champion, Shanghai, China	30.14	765.5	53	11.7	73	s.			1		8							misty.
H. M. S. Flying Fish, N. 24° 53′, E. 118° 55′	30.19	766.8	52	11.1	86	ne.			1		0					1	e.	blue sky.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.88	758.9	85.5	29.7	68	calm			0		6							misty.
H. P. M S. Tamega, Macao, China	30.15	765.8	60.8	16.0	80	ne.			1		0			0	0			blue sky.
S. S. Newbern, N. 28° 29′, W. 116° 20′			60	15.6	100	nw.			1		4			0	0		wnw.	clear.
S. S. Columbia, N. 45° 39′, W. 124° 15′			49	9.4	78	nne.			3		0					mod.	nw.	clear
S. S. Oregon, Columbia river, Oregon†	30.53	775.4	42	5.6	83	nne.			2		0							clear.
S. S. Willametta, N. 42° 54′, W. 124° 50′†	30.31	769.9	51	10.6	86	nne.			5		0			0	0	long	wnw.	clear.
S. S. Alameda, Honolulu, Sandwich Islands†	29.92	760.0	69	20.6		ese.			1		0			0	0			clear.
S. S. Ancon, Piedra Blanca, Cal	30.04	763.0	54	12.2	93	sse.			3		5		w.	0	0	mod.	w.	foggy.
S. S. City of Chester, San Francisco, Cal†	30.08	764.0	53	11.7	86	calm			0		0			0	0	sm'h		clear.
S. S. Queen of the Pacific, N. 45° 52′, W. 124° 51′	30.44	773.2	46	7.8	92	ne.			3		0			0	0	long	w.	clear.
S. S. State of California, Portland, Oreg†	30.54	775.7	38	3.3	100	n.			2		0							clear.
S. S. Eureka, N. 55° 58′, W. 132° 28′			40	4.4	91	se.			4		10			12 h'r	12 h'r	sm'h		cloudy.
S. S. City of Pekin, N. 32° 39′, W. 145° 30′†	29.77	756.1	64	17.8	94	se.			6		4		sw.			mod.	ne.	squally.
S. S. City of Rio de Janeiro, N. 33° 15′, E. 135° 34′†	30.26	768.6				ne.			2		2		ne.			mod.	ene.	clear.
S. S City of Sydney, N. 19° 18′, W. 158° 45′*†	29.84	757.9	74	23.3	81	nnw.			2		8 kn		nw.			mod.	wnw.	cloudy.
S. S. Colima, Panama, Panamar	29.93	760.2	75	23.9	86	w.			2		5		w.	0	0			clear.
S. S. San Blas, N. 24° 06′, W. 111° 36′†	30.03	762.7	67	19.4	89	nw.			4		0		w.	0	0	sm'h	nw.	fair.
S. S. San Jose, N 15° 53′, W 97° 52			78	25.6		s.			2		3		sse.	0	0	small	sw.	clear.
S. S. Benalder, N. 33° 45′, E. 10° 30′	30.30	769.6	47	8.3	77	calm			0		0			0	0	sm'h		clear.
S. St. Francis, N. 33° 30′, W. 135° 00′			54	12.2	74	ne.			0		0					long	wnw.	clear.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, S. 13° 48′, W. 76° 39′*	30.05	763.3	69	20.6	95	sse.			2		5		calm			long	ssw.	fair.
H. M. S. Constance, S. 27° 32′, W. 88° 10′	30.10	764.5	69	20.6	80	ese.			3		4	calm				2	se.	d. clouds.
H. M. S. Espiegle, S. 45° 49′, E. 166° 35′	29.23	742.4	55	12.8	87	ene.			3		10							raining.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.04	763.0	62.3	16.8	83	w.			1		3					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.79	759.7	40	7.8	77	nw.			3		8							d. clouds.
S. S. Zealandia, Sydney, N. S. W	29.80	756.9	81	27.2	55	e.			5		2			0	0			fine.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.92	760.0	64	17.8		n.			1		8	n.				1	n.	
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.99	761.7	72	22.2	80	ne.			2		8	calm						d. clouds.
H. M. S. Tourmaline, Majunga, Madagascar	29.85	758.2	85	29.4	79	nnw.			2		5					sm'h		d. clouds.
S. Orcalla, S. 41° 37′, E. 27° 30′*	29.92	760.0				wsw.			6		5		wsw.	0	0	mod.	w.	fair.

International Chart I. February 26, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 27, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.13	765.4	67.3	19.6	80	sw.	.....	.....	1	.....	5	.....	.....	0	0	.....	Roziere.
Algiers	.....	.....	30.12	765.0	64.4	18.0	62	wsw.	.....	.....	5	.....	3	.....	.....	0	0	.....	Thève.
La Calle	.....	.....	30.06	763.6	64.0	17.8	61	n.	.....	.....	2	.....	1	.....	.....	0	0	.....	Fonfrède.
Tunis	.....	.....	30.06	763.4	57.6	14.2	74	w.	.....	.....	4	.....	1	.....	.....	0	0	.....	Delord.
Geriville	.....	.....	.....	.....	60.8	16.0	7	nw.	.....	.....	3	.....	2	.....	.....	0	0	.....	Forfert.
Laghouat	.....	.....	30.22	767.7	68.7	20.4	83	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Abraham.
Biskra	.....	.....	30.21	767.2	65.1	18.4	67	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia	.....	.....	29.90	759.4	69.9	21.1	37	calm	0	0	.....	.....	10 k	.....	.....	0	0	overcast	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.71	754.6	29.90	759.4	54	12.2	75	n.	10	4.5	.....	.....	10	.....	n.	0	0	overcast	Com. J. Shortt, R.N.
Melbourne, Victoria	29.85	758.2	29.94	760.5	55.1	12.8	80	se.	10	4.5	.....	.....	3	.....	.....	0.27	6.9	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.34	745.2	29.91	759.7	36.5	2.5	69	w.	.....	.....	2	.....	10	.....	.....	0.071	1.8	rain & snow	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.10	739.1	29.89	759.1	37.8	3.2	71	wnw.	4.3	1.9	.....	.....	10	.....	.....	0.004	0.1	.....	Dr. Wierzbiski
Eperies	28.92	734.5	29.82	757.4	39.6	4.2	58	n.	.....	.....	3	.....	10 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.62	726.9	29.89	759.3	41.4	5.2	56	nw.	.....	.....	5	.....	4	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.20	716.3	29.67	753.5	35.2	1.8	98	wnw.	.....	.....	3	.....	10	.....	.....	0.913	23.2	rain & snow	Prof. A. Gottschling
Kremsmunster, Obs'y	28.61	726.8	30.01	762.2	34.7	1.5	87	wsw.	.....	.....	1	.....	10	.....	.....	0.094	2.4	.....	The Staff.
Lemberg	28.78	730.9	29.80	756.8	33.6	0.9	92	ne.	.....	.....	2	.....	10	.....	.....	0.835	21.2	.....	Dr. T. Stanecki.
Pola	29.78	756.4	29.89	759.3	49.8	9.9	76	wnw.	.....	.....	3	.....	5	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.16	740.7	29.63	752.7	42.4	5.8	67	n.	.....	.....	4	.....	0	.....	.....	0.295	7.5	.....	Joseph Midlinszky, S. J
Szegedin	29.48	748.9	29.77	756.1	45.3	7.4	70	nw.	.....	.....	2	.....	8	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.82	757.3	29.91	759.8	46.9	8.3	62	nw.	.....	.....	1	.....	1	.....	.....	0	0	.....	Royal Academy.
Vienna	29.23	742.4	29.97	761.1	38.3	3.5	58	nw.	.....	.....	2	.....	9	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BELGIAN.																			
Arlon	28.60	726.4	30.04	763.0	36.0	2.2	81	ssw.	.....	.....	1	.....	2	.....	.....	0.098	2.5	.....	
Brussels	29.89	759.2	30.10	764.5	38.3	3.5	75	ese.	.....	.....	3	.....	6	.....	e.	0.051	1.3	.....	
Furnes	30.02	762.5	30.04	763.0	38.8	3.8	86	ese.	.....	.....	1	.....	10	.....	.....	0	0	.....	
Maeseyck	30.52	775.1	30.64	778.3	37.8	3.2	78	e	.....	.....	1	.....	10	.....	.....	0	0	dense fog	
BRITISH.																			
Aberdeen	29.97	761.2	30.08	764.0	41.0	5.0	78	se.	19	8.5	.....	.....	7	.....	.....	0.050	1.3	d. clouds	W. Boswell.
Bidston, Liverpool Obs'y	.....	.....	29.97	761.2	42.3	5.7	70	ese.	18	8.0	.....	.....	5	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.44	747.8	29.98	761.5	41.2	5.1	61	ene.	12	5.4	.....	.....	4	.....	.....	.....	.....	misty	Thomas Mackereth.
Bradford, Yorkshire	29.61	752.1	30.00	762.0	41.3	5.2	75	se.	.....	.....	2	.....	9	.....	.....	0.03	0.8	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.02	762.5	30.05	763.3	80	26.7	58	e.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds	Corp'l C. McGregor, A.H.C
Cardington	.....	.....	.....	.....	40.2	4.6	84	se.	.....	.....	0–2	.....	4	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.86	758.4	30.03	762.7	44.9	7.2	72	sw.	.....	.....	2	.....	7	.....	.....	.....	.....	gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.61	752.1	29.84	757.9	49.1	9.5	96	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Fort Napier, Natal	27.77	705.3	30.08	764.0	65.2	18.4	76	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	Corp'l O. Stares, A.H.C.
Freetown, Sierra Leone	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. W. Smith.
Galway, Queen's College	29.70	754.4	29.74	755.4	47	8.3	92	e.	.....	.....	2	.....	7	.....	.....	0.48	12.2	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.08	764.0	30.17	766.3	60.3	15.7	88	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A. H.C.
Greenwich, Royal Obs'y	29.84	757.9	30.02	762.5	42.9	6.1	83	se.	.....	.....	3	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.57	751.1	29.87	758.7	46.0	7.8	100	e.	.....	.....	1	.....	10	.....	.....	.....	.....	foggy	A. Collenette, F.R.M.S.
Kew, Observatory	29.98	761.5	30.02	762.5	42.3	5.7	83	e.	11	4.9	.....	.....	9	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	29.75	755.6	30.01	762.2	42.2	5.7	83	ese.	.....	.....	1	.....	8	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.88	758.9	29.95	760.7	60.4	15.8	66	w.	.....	.....	2	.....	7	.....	.....	0	0	d. clouds	Corpl. H. Keene, A. H. C.
Nassau, Bahamas	30.06	763.5	30.11	764.8	69.0	20.6	31	nw.	.....	.....	1	.....	4?	.....	.....	.....	.....	overcast?	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.76	755.9	29.99	761.7	42.7	5.9	83	ne.	.....	.....	3	.....	9	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.79	756.7	29.87	758.7	46.4	8.0	97	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	29.98	761.5	30.08	764.0	40.6	4.8	87	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.68	753.9	29.74	755.4	57.4	14.1	45	s.	.....	.....	1	.....	9	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	29.74	755.4	30.02	762.5	42.0	5.6	70	e.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	W. F. Cooper.
Silloth Rectory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rev. S. J. Perry.
Strathfield Turgiss	.....	.....	.....	.....	42.3	5.7	87	se.	.....	.....	1.0	.....	10	.....	.....	.....	.....	foggy	Rev. C. H. Griffiths, F.M.S
Valencia, Observatory	29.66	753.4	29.69	754.1	53.9	12.2	87	se.	11	4.9	.....	.....	5	.....	.....	blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.63	752.6	30.02	762.5	57.9	14.4	70	nw.	15.4	6.9	.....	3 c	5 n	w.	nw.	0.10	2.5	hazy	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.	29.86	758.4	29.90	759.4	17.0	— 8.3	.....	calm	0	0	.....	10 cs	0	.....	.....	0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.55	750.6	29.60	751.8	17	— 8.3	80	n.	18	8.0	.....	.....	10 s	.....	calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B.*	29.72	754.9	29.79	756.7	11	—11.7	91	n.	3	1.3	.....	.....	10 s	.....	n.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.48	748.8	29.68	753.9	32.0	0.0	99	w.	.....	.....	1	.....	10 n	.....	.....	0.080	2.0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.76	755.9	29.81	757.2	16.0	— 8.9	.....	calm	.....	.....	0	.....	10 s	.....	.....	0.100	2.5	overcast	H. A. Johnson.
Father Point, Quebec*	29.74	755.4	29.76	755.9	17	— 8.3	80	ne.	6	2.7	.....	.....	10 s	.....	ne.	0.10	2.5	threatening	J. McWilliams
Fort Garry, Manitoba*	29.65	753.1	30.67	779.0	—29	—33.9	100	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton, N. B.	29.73	755.1	29.80	756.9	16.0	— 8.9	83	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	overcast	Prof. Thos. Harrison.
Grand Manan, N. B.	29.69	754.1	29.75	755.6	21	— 6.1	87	ne.	11	4.9	.....	.....	hz.	.....	.....	0	0	hazy	J. Chipman Seeley
Granton, Ontario	28.75	730.2	29.90	759.4	26.2	— 3.2	98	w.	2	0.9	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S.*	29.37	746.0	29.51	749.5	22	— 5.6	70	w.	20	8.9	.....	.....	10 k	.....	.....	0.150	3.8	cloudy	A. Allison.
Hamilton, Ontario	29.34	745.2	29.76	755.9	25.7	— 3.5	88	sw.	.....	.....	1	10 ck	0	sw.	.....	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.44	747.8	29.79	756.7	29	— 1.7	92	se.	2	0.9	.....	10 ck	0	.....	.....	0.05	1.3	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.10	739.1	29.15	740.4	22.0	— 5.6	93	ne.	10	4.5	.....	.....	10 n	.....	.....	0.300	7.6	snowing	C. H. Rigby.
London, Ontario	28.98	736.4	29.93	760.2	26.6	— 3.0	90	s.	.....	.....	1	.....	10 n	.....	.....	0.100	2.5	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.93	709.4	30.37	771.4	19	— 7.2	92	e.	1	0.4	.....	.....	10 n	.....	.....	0	0	cloudy	John Ewart.
Minnedosa, N. W. T.	28.43	722.1	30.75	781.0	—26	—32.2	100	n.	4	1.8	.....	0	c	.....	.....	0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.50	749.3	29.71	754.6	27	— 2.8	92	sw.	3	1.3	.....	0	fg.	.....	.....	0.17	4.3	light fog	C. H. McLeod, C. E.
Ottawa, Ontario	29.51	749.5	29.74	755.4	28.8	— 1.8	90	ne.	.....	.....	.....	.....	10 s	.....	.....	.....	.....	snowing	A. McGill, M. A.
Parry Sound, Ontario*	29.13	739.9	29.87	758.7	21	— 6.1	84	w.	6	2.7	.....	.....	10 n	.....	w.	0.04	1.0	light snow	Rev. R. Mosley.
Peterboro, Ontario	29.06	738.1	29.84	757.9	25.3	— 3.7	73	nw.	.....	.....	1	.....	10 k	.....	.....	0.21	5.3	snowing	Wm. O'Connor, M.A.
Port Arthur	29.49	749.0	30.30	769.6	— 8	—22.2	82	n.	4	1.8	.....	5 cs	0	n.	.....	inap.	inap'	fair	W. P. Cooke.
Port Dover, Ontario	29.18	741.2	29.92	760.0	28	— 2.2	100	sw.	7	3.1	.....	.....	10 n	.....	.....	0.06	1.5	threatening	H. Morgan.
Port Stanley, Ontario	29.30	744.2	29.98	761.5	26	— 3.3	92	w.	10	4.5	.....	.....	10 n	.....	w.	0.02	0.5	cloudy	M. Payne.
Qu Appelle, N. W. T	28.00	711.2	30.68	779.3	—20	—28.9	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.35	745.5	29.72	754.9	24	— 4.4	88	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.27	743.4	29.76	755.9	17	— 8.3	73	nw.	12	5.4	.....	.....	10 ks	.....	n.	0.10	2.5	cloudy	W. H. McIntyre.
St. Andrews, N. B.	29.67	753.6	29.73	755.1	18	— 7.8	86	ne.	3	1.3	.....	.....	10 n	.....	.....	0	0	cloudy	
St. John, N. B.	29.59	751.6	29.74	755.4	16.4	— 8.7	92	w.	8	3.6	.....	.....	10 n	.....	.....	0	0	overcast	G. Hutchinson.
St. Pierre, N. F.	.....	.....	29.33	745.0	21.2	— 6.0	.....	ne.	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	The Commandant.
Saugeen, Ontario*	29.12	739.6	29.87	758.7	24	— 4.4	96	n.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	
Stratford, Ontario	28.53	724.6	29.87	758.7	25.0	— 3.9	94	calm	0	0	.....	.....	10 s	.....	.....	0.380	9.7	.....	W. McBride, M.A.
Sydney, C. B.*	29.23	742.4	29.30	744.2	21	— 6.1	96	ne.	28	12.5	.....	.....	10 n	.....	.....	0.60	15.2	light snow	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.49	749.0	29.90	759.4	28	— 2.2	92	w.	6	2.7			10 n		w.	0.18	4.6	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.80	731.5	29.92	760.0	26.0	— 3.3	91	sw.	10	4.5			10 n			0.500	12.7	gloomy	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.62	752.3	29.69	754.1	24	— 4.4	80	n.	4	1.8			10 k		n.	0.27	6.9	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.15	765.8	30.18	766.6	72.5	22.5	71	se.				0	0			0	0	clear	I. Garfelt.
Cape Town, The Castle	29.95	760.7			79.0	26.1	38	ne.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4			91	32.8	41									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.94	760.4	30.01	762.3	62.6	17.0	84	nw.			1	10						cloudy	Samuel Redolez.
Iquique	29.95	760.6	29.97	761.3	69.8	21.0	77	sw.			2							foggy	Rafael Moreno.
Niebla	29.54	750.2	29.64	752.9	55.0	12.8	98	e.			2		7		e.	0	0	misty	Federico Köhling.
Punta Caldera	29.96	760.9	30.04	763.1	65.3	18.5	76	e.			1	5 c		e.				cloudy	Manuel Tobar.
Punta Corona	29.85	758.2	30.04	762.9				calm			0	3 s				0.315	8.0	fair	Francisco Alvarado.
Valparaiso	29.84	758.0	29.98	761.5	60.4	15.8	91	nw.			0		10					cloudy	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.13	765.4	30.16	766.0	46.2	7.9	97	ese.	4.5	2.0			10			0	0	foggy	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.15	765.9	30.20	767.1	29.3	— 1.5	56	ene.	18	8.			10						Oversergent Fischer.
Fanöe	30.21	767.3	30.23	767.8	30.7	— 0.7	70	ne.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.75	755.7	29.79	756.8	2.8	—16.2	100	n.			4		8						S. Kleinschmidt.
Ivigtut, Gree land	29.57	751.0	29.59	751.5	25.2	— 3.8		calm			0		10						
Jacobshavn, Greenland	29.81	757.2	29.86	758.4	—13.7	—25.4		calm			0		4						
Stykkisholm, Iceland	29.56	750.7	29.60	751.8	37.0	2.8	74	e.			6		8						A. O. Thorlacius.
Thorshavn	30.04	762.9	30.06	763.5	43.3	6.3	74	se.	9	4			7						Overloerer Bergh.
Upernavik, Greenland	29.78	756.5	29.83	757.7	—17.9	—27.7		calm			0		0						
Vestervig	30.13	765.4	30.22	767.7	31.5	— 0.3	68	ene.			6		8						Loerer Oesterbol.
Egyptian.																			
Cairo	29.97	761.2			67.3	19.6		sw.	2.7	1.2		0	0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.30	744.3	30.00	762.0	48.6	9.2	100	se.			1		10 nk			0	0		M. Labroue, Director.
Alençon, Normal School	29.45	748.0	30.00	761.9	44.6	7	94	se.			1		2 n		nw.	0.16	4.	slightly cl'dy	M. Nicot, Director.
Arras, Normal School	29.70	754.3			39.7	4.3	92	e.			1		5	se.	e.	0	0	cloudy	M. Ungerer, Director.
Avignon, Normal School	29.82	757.5	29.90	759.5	55.8	13.2	53	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.44	747.8	30.02	762.4	42.3	5.7	72	se.			1		5		e.	0.177	4.5	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.76	756.0	30.04	763.0	39.9	4.4	83	e.			2		10		se.	0.063	1.6	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.02	737.0	29.92	759.9	47.5	8.6	61	se.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.62	752.4	29.88	759.0	52.2	11.2	76	ssw.			1		10			0.039	1.0	covered	M. Rayet, Director.
Bourges, Normal School	29.42	747.2	29.98	761.4	46.4	8	75	se.			1		k		se.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.69	754.1	29.93	760.3	50.0	10.0	97	s.			1		10		s.	0.020	0.5	misty	M. de Kermarée, Dir.
Caen, Normal School	29.88	759.0	29.96	760.9	45.3	7.4	94	se.			1		10			0.012	0.3	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.67	753.6	30.00	761.9	42.8	6.0	87	s.			1		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.52	749.7	30.04	763.1	41.4	5.2	74	ene.			1		2		se.	0.039	1.0	¼ covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28.56	725.5	29.94	760.5	44.6	7.0	83	n.			1		10			0.067	1.7		M. Alluard, Director.
Cluny, Normal School	29.12	739.6	29.97	761.3	43.3	6.3	67	ne.			1		2		ne.	0.256	6.5	slightly cl'dy	M. de Villemontés, Dir.
Commercy, Normal School	29.18	741.1	30.07	763.7	38.8	3.8	83	ene.			1		5 kn	ene.	ene.	0.16	4.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.31	693.6	29.85	758.2	49.1	9.5	56	w.			1		3 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.72	729.6	29.85	758.3	54.5	12.5	41	n.			2		3		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.21	741.8	29.98	761.6	46.0	7.8	86	ne.			1		kn			0.343	8.7		M. Ablard, Director.
Guéret, Normal School	28.36	720.3	29.93	760.1	46.0	7.8	83	sw.			1		8 kn		w.	0.217	5.5	very cloudy	M. Delorme, Dir.
Lescar, Normal School	29.34	745.1	29.89	759.3	60.8	16.0	60	nw.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.82	757.5	29.93	760.1	55.0	12.8	70	sse.			2		8	s.	sse.	0	0	¾ covered	L. T. Carré, Director.
Lyon, St. Genis-Laval	28.90	734.0	29.98	761.6	41.4	5.2	76	n.			2		8 n		nne.	0.189	4.8	very cloudy	M. André, Director.
Mans, Normal School	29.62	752.4	29.93	760.2	45.3	7.4		sse.			4		8 kn		se.	0.134	3.4	very cloudy	M. Richard, Director
Marseille, Observatory	29.61	752.0	29.88	758.9	57.7	14.3	48	wsw.			0–1		2		nw.	0	0		M. Stephan, Director.
Montlouis	24.65	626.1	29.49	749.1	44.2	6.8	40	wsw.	9.4	4.2			5	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.73	755.2	29.84	758.0	58.3	14.6	55	s.			1		1	nw.		0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.24	742.8	30.05	763.3	39.9	4.4	67	nne.			1		kn		e.	0.075	1.9		M. Hasse, Director.
Nantes, Observatory	29.82	757.3	29.98	761.4	50.4	10.2	84	ese.			0–1		9k; kn; n		wnw.	0.008	0.2		M. Larocque, Director.
Perpignan, Observatory	29.84	757.8	29.95	760.6	57.4	14.1	56	nw.	1.8	0.8			6		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.04	534.6			27.5	— 2.5		nw.			1		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	28.91	734.3	29.98	761.4	49.6	9.8	66	nw.			1	c		nw.	sw.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	24.98	634.5			30.7	— 0.7	100	wnw.			4		10			0.543	13.8	snow & fog	M. Alluard.
Rochefort, Naval Obs'y	29.91	759.6	29.94	760.4	54.7	12.6	79	calm			0		10		ne.	0	0		Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.73	755.2	29.95	760.8	52.2	11.2	83	nw.			4		10		nw.	0.008	0.2	raining	M. Brotier, Director.
Rodez, Normal School	27.97	710.3	30.15	765.8	47.3	8.5		s.			0–8		10 ks		s.	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.98	761.5	30.03	762.7	42.4	5.8	88	se.			1		5	se.		0.08	2	cloudy	M. Moullilot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.87	758.7	30.04	762.9	36.7	2.6	92	ese.			1					0.043	1.1		M. Renou, Director.
Toulouse, Observatory	29.26	743.3	29.99	761.7	50.5	10.3	93	e.			1		8	nw.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.78	756.5	29.97	761.1	50.0	10.0	74	ne.			1		8	se.	ese.	0.039	1.0	very cloudy	M. de Tastes.
Versailles, Observatory	29.53	750.0	30.02	762.4	36.0	2.2	93	se.			2		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.78	756.3	29.93	760.1	56.1	13.4	62	e.	7.8	3.5		4 ck			w.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.58	725.9	30.10	764.4	33.8	0.8	65	n.			2		8	n.		0.083	2.1		Prof. Jnedt.
Bamberg	29.16	740.7	30.00	762.1	36.1	2.3	82	n.			1		6 ks			0.012	0.3	light snow	Prof. Dr. Hoh.
Berlin	29.91	759.7	30.06	763.5	36.3	2.4	65	ne.			2		8			0.020	0.5	snowing	Meteorological Institute
Breslau	29.44	747.8	29.97	761.3	33.8	0.8	77	nnw.			3		10			0.008	0.2		Royal University Obs'y
Carlsruhe	29.61	752.0	30.08	764.0	39.9	4.4	57	ne.			1		5	ne		0	0		Albert Senz.
Cassel	29.36	745.7	30.07	763.8	35.6	2.0	90	n.			2		8	nne.		0.012	0.3		Dr. H. Möhl.
Frankfort-on-the-Main	29.72	754.8	30.10	764.5	37.6	3.1	56	n.			1		10			0.004	0.1		Physical Society.
Friedrichshafen	28.58	725.8	30.04	762.9	40.3	4.6	63	ne.			2		8	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.08	764.0	30.17	766.3	32.0	0.0	78	ne.			3		10			0.010	0.4	light snow	E. Prellet.
Kiel	30.13	765.2	30.14	765.6	32.7	0.4	91	ne.			3		10			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.65	753.2	30.09	764.3	34.2	1.2	75	ne.			2		10	ne.		0.177	4.5	snowy	H. Leppig, Asst.
Magdeburg	29.90	759.5	30.10	764.6	34.9	1.6	78	ne.			1		10			0.039	1.0	snowing	Weather Observatory.
Memel	30.02	762.6	30.07	763.8	21.2	— 6.0	77	ne.			5		10 c8						Issermann.
Munich	28.17	715.4	30.03	762.7	33.8	1.0	70	n.			1		10	nw.		0.043	1.1		Central Station.
Neufahrwasser	30.00	762.1	30.02	762.5	27.5	— 2.5	92	ne.			5		10			0.101	4.1		A. Lothes.
Neustadt, Palatinate	29.51	749.6	30.04	763.0	39.0	3.9	64	ne.			1		5	ne.		0	0		Prof. Dicknether.
Stuttgart	29.08	738.7	30.01	762.2	38.3	3.5	67	n.			1		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.10	764.5	30.13	765.2	31.3	— 0.4	85	ene.			2		10			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.42	747.3	29.81	757.1	58.3	14.6		nw.			2.5	0	8			0.161	4.1		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.86	758.5	29.92	759.8	77.7	25.4	75	wsw.	26.0	11.6			7			0	0	d. clouds	
Deesa	29.41	747.0	29.87	758.8	92.3	33.5	19	w.	14.0	6.3			0			0	0	blue sky	
Bombay	29.90	759.6	29.94	760.5	80.1	26.7	79	wnw.	15.0	6.7			0			0	0	blue sky	
Poona, Yarrowda	28.05	712.4	29.87	758.6	90.3	32.4	17	wnw.	15.0	6.7			2			0	0	d. clouds	
Belgaum	27.37	695.2	29.89	759.2	80.6	27.0	50	wsw.	8.0	3.6			2		e.	0	0	d. clouds	
Lahore	29.09	738.8	29.84	757.8	71.8	22.1	62	nw.	4.0	1.8			8			0	0	d. clouds	
Roorkee	28.87	733.4	29.76	756.0	82.7	28.2	27	w.					7	w.		0	0	d. clouds	
Agra	29.24	742.7	29.80	756.8	88.2	31.2	24	w.					3		w.	0	0	d. clouds	
Nagpur	28.82	732.1	29.85	758.2	89.5	31.9	22	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.53	724.8	29.88	759.1	82.8	28.2	32	calm	0	0			0			0	0	blue sky	
Lucknow	29.47	748.4	29.84	758.0	80.2	26.8	18	calm	0	0			0			0	0	blue sky	
Allahabad	29.52	749.7	29.83	757.6	83.9	28.8	41	calm	0	0			0			0	0	blue sky	
Patna	29.65	753.1	29.84	757.9	79.3	26.3	38	nw.	4.4	2.0			0			0	0	blue sky	
Hazaribagh	27.86	707.6	29.88	759.0	74.4	23.6	36	nw	4.0	1.8			0			0	0	blue sky	
Cuttack	29.81	757.2	29.90	759.3	83.0	28.3	45	nw.	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	29.87	758.6	29.89	759.1	79.5	26.4	46	wsw.	0.5	0.2			0			0	0	blue sky	
Dhubri	29.89	759.1	30.01	762.2	70.4	21.3	74	e.	13.9	6.2			10			0.01	0.3	gloomy	
Chittagong	29.85	758.3	29.95	760.6	71.6	22.0	81	sw.	6.8	3.0			3			0	0	d. clouds	
Sibsagar	29.59	751.6	29.94	760.4	69.0	20.6	79	nw.	2.0	0.9			8	sw.	sw.	0	0	d. clouds	
Jeypore	28.38	720.8	29.80	757.0	86.5	30.3	17	wnw	13.5	6.0			8	wsw.		0	0	d. clouds	
Zanzibar	29.83	757.6	29.85	758.2	89.5	31.9	51	ne.	5.1	2.3			1			0	0	d. clouds	
Bellary	28.41	721.6			91.8	33.2	19	nw.	4	1.8		2 c	0			0	0	d. clouds	
Trichinopoly	29.67	753.6			89.7	32.1	33	ne.	0.2	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.47	748.6	29.89	759.2	51.3	10.7	39	s.	1.3	0.6			3			0	0		Prof. Giovanni Clodig.
Milan	29.38	746.3	29.91	759.8	48.6	9.2	56	e.	3.1	1.4			2	nw.		0	0		Prof. G.V.Schiapparelli
Padua	29.78	756.5	29.90	759.4	48.4	9.1	52	calm	0	0			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.98	736.1	29.91	759.6	50.2	10.1	38	nw.	1.3	0.6			6	ne.		0	0		Prof. F. F. Denza.
Genoa	29.67	753.5	29.86	758.4	52.5	11.4	45	n.	3.8	1.7			2	s.		0	0		Prof. G. M. Garibaldi.
Pesaro	29.83	757.8	29.89	759.1	47.8	8.8	76	ne.	8.7	3.9			4	nnw.		0	0		Prof. Luigi Guidi.
Florence	29.61	752.0	29.87	758.6	50.9	10.5	66	b.			2		2			0	0		Prof. Costantino Pittei.
Leghorn	29.72	755.0	29.80	756.8	52.5	11.4	60	e.	5.6	2.5			5			0.067	1.7		Prof. P. Monte.
Rome	29.65	753.1	29.83	757.6	54.0	12.2	59	ssw.	6.3	2.8			6			0	0		Prof. P. Tacchini.
Lecce	29.60	751.9	29.86	758.5	54.0	12.2	54	n.	9.4	4.2			7			0.004	0.1		Prof. C. de Giorgi.
Cosenza	29.04	737.5	29.95	760.6	54.3	12.4	76	se.	2.5	1.1			10	e.		0.402	10.2		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.67	753.5	29.94	760.0	60.1	15.6	65	wnw.	13.0	5.8			7	wnw.		0.012	0.3		Prof. G. Cacciatore
Syracuse	29.86	758.4	29.90	759.5	60.6	15.9	56	wnw.	16.8	7.5			7	wnw.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.37	746.0	29.91	759.6	47.5	8.6	81	wsw.	3.8	1.7			10			0.039	1.0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.36	771.2	30.39	771.9	30.9	— 0.6	73	n.			2		9 k		w.	0	0	cloudy	H. Hattori.
Awomori	30.32	770.1	30.36	771.1	26.4	— 3.1	78	s.	6.8	3.0		0	4 s			0	0	fair	K. Ogawa.
Hakodate	30.36	771.1	30.37	771.4	20.0	— 6.7	100	n.	1.8	0.8		0	0			0	0	clear	Y. Souma.
Hamamatsu	30.23	767.8	30.33	770.3	40.2	4.6	73	w.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.31	769.9	30.33	770.3	40.0	4.4	82	n.	4.1	1.8		2 ck	0	w.		0.409	10.4	clear	Y. Okamoto.
Kagoshima	30.27	768.9	30.28	769.2	50.7	10.4	88	calm			0		10 n			1.167	28.1	light rain	
Kanazawa	30.29	769.3	30.40	772.1	31.0	— 0.6	77	e.	3.3	1.4		0	0			0	0	clear	S. Endo.
Kioto	30.18	766.5	30.35	770.9	36.3	2.4	84	nne.	2.9	1.2		0	0			0	0	clear	M. Tojima.
Kochi	30.33	770.4	30.35	770.9	44.9	7.2	74	se.	2.3	1.0		0	2 s			0.055	1.4	clear	K. Kusunose.
Miasaka	30.28	769.1	30.31	769.8	50.3	10.2	85	wsw.			1		10 s		w.	0.406	10.3	overcast	K. Masusaki.
Miyako	30.25	768.3	30.37	771.3	33.0	0.6	78	ene.	2.8	1.2		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.03	762.7	30.24	768.1	48.3	9.1	84	e.	2.4	1.1			10 s			0.750	19.0	overcast	
Nemuro	30.29	769.4	30.34	770.6	8.0	—13.3	78	nw.	3.0	1.3		0	0			0	0	clear	A Shibuya.
Niigata	30.39	771.9	30.43	772.9	32.8	0.4	84	n.	1.5	0.6		0	0			0	0	clear	Satoo & Tomikawa.
Nobiru	30.36	771.2	30.38	771.6	33.9	1.1	86	nnw.	4.0	2.1		0	1 s			0	0	clear	Yoshino & Midzushina.
Numadzu	30.32	770.1	30.35	770.9	39.0	3.9	78	ne.			4	0	0			0	0	clear	T. Ohgi.
Osaka	30.33	770.3	30.34	770.7	40.2	4.6	83	ene.	8.4	3.8		3 cs	0			0	0	clear	H. Omura.
Sakai	30.32	770.1	30.33	770.3	43.2	6.2	77	ene.			2	0	0			0.063	1.6	clear	Yamawchi & Sakamoto.
Sapporo	30.27	768.9	30.34	770.6	25.0	— 3.9	74	se.	0.2	0.1			10 n			0.036	0.9	snowing	S. Kimura.
Shimonoseki	30.17	765.3	30.32	770.0	44.5	0.9	83	ne.			2		9 s			0.437	11.1	cloudy	S. Sakano.
Wakayama	30.28	769.0	30.33	770.4	39.0	4.2	77	calm	0	0		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.77	756.1	29.96	761.0	78.4	25.8	75	ene.	10.5	4.7		5c;cs	4ks;kn	sw.	ene.	0.56	14.2	cloudy	The Staff.
MEXICAN.																			
Leon	24.33	618.0	30.14	765.5	48.4	9.1	73	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina
Mazatlan	29.76	755.8	30.02	762.5	68.0	20.0	95	e.	1.6	0.8		0	0			0	0	foggy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.10	764.6	30.10	764.6	40.1	4.5		ese.			4					0.016	0.4		
Groningen	30.15	765.8	30.21	767.2	36.1	2.3		e.			1					0.004	0.1		
Helder	30.15	765.7	30.15	765.7	37.4	3.0		ese.			1					0	0		
Hellevoetsluis	30.11	764.8	30.11	764.8	47.5	8.6	69	ese.			3					0	0		
Utrecht	30.10	764.4	30.15	765.8	39.4	4.1	57	se.			3		6			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.88	759.0			76.3	24.6	92	wnw.	0	0			10			0.402	10.2		Lt. J. J. Roptman, R.D.N.
NORWEGIAN.																			
Bergen	30.21	767.3	30.27	768.9	35.6	2.0	64	calm	0	0			3			0	0		
Brono	30.18	766.5	30.22	767.5	33.8	1.0	79	s.			4		10			0	0		
Christiania	30.17	766.2	30.32	770.2	28.8	— 1.8	70	n.	4	2			4			0	0		
Gjesvær	29.70	754.4	29.72	755.0	27.7	— 2.4		wnw.			9		10			0.303	7.7		
Lodingen	29.96	760.9	30.00	762.1	30.9	2.7	87	wsw.			6		9			0.098	2.5		
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.95	760.6	30.03	762.8	63.1	17.3	68	w.	10.5	4.7			10			0.039	1.0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.53	750.1	29.87	758.6	58.6	14.8	83	ssw.	23.0	10.3			8			0.028	0.7		The Staff.
Ponta Delgada, Azores	29.85	758.1	29.92	759.9	57.2	14.0	60	nw.	12.5	5.6			3	nne.		0.047	1.2		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.04	762.9	30.07	763.7	69.3	20.7	83	ne.			2		7			0	0		
San Salvador, Congo	28.09	713.4	29.90	759.4	84.0	28.9	59	e.			1		8			0	0		
Serra da Estrella	25.10	637.0	29.94	760.4	35.6	2.0	100	se.	18.6	8.3			10			0.016	0.4	rain & fog	
RUSSIAN.																			
Akmolinski	29.12	739.7	30.33	770.3	2.5	—16.4	90	sw.	20	9			10 n			0.020	0.5		Major K. Lasarew.
Archangel	30.02	762.4	30.04	762.9	0.3	—17.6	78	sw.	9	4		2 cs	0			0	0		Capt. Sselliwerstow.
Ashurada	30.31	769.9	30.22	767.5	50.5	10.3	70	nne.	9	4		0	0			0	0		
Astrakhan	30.26	768.6	30.19	766.7	46.9	8.3	50	sw.	2	1		0	2 s			0	0	light clouds	Capt. Wisganow.
Baku	30.22	767.6	30.17	766.4	45.0	7.2	82	s.	22	10		0	0			0	0		
Barnaul	30.02	762.5	30.60	777.1	— 0.5	—21.4	68	calm	0	0			10			0	0	light clouds	Meteorological Office.
Bielosersk	29.84	758.0	30.37	771.4	— 0.4	—18.0	71	calm	0	0		0	0			0	0	solar halo	
Dorpat	29.93	760.2	30.20	767.0	9.7	—12.4	77	ne.	7	3		5 c	0			0	0		Observatory.
Ekaterinburg	28.98	736.2	30.05	763.2	1.8	—16.8	75	ne.	9	4		7c;ck	0			0	0		Meteorological Obs'y.
Elissawetgrad	29.37	746.0	29.83	757.0	44.4	6.9	94	sse.	4	2			10kn;s			0.024	0.6		
Kasan	29.88	758.9	30.18	766.5	3.4	—15.9	76	nnw.	2	1			0			blank	blank		Observatory.
Kem	30.03	762.8	30.08	764.1	11.1	—11.6	75	sw.	22	10		0	7 ks			0	0	light clouds	
Kertch	29.93	760.1	29.95	760.7	49.1	9.5	74	se.	4	2		8 c	0			0	0		Lagorio & Sastyrea.
Kieff	29.20	741.6	29.86	758.4	33.1	0.6	94	ne.	9	4			10 n			0.083	2.1	snowing	Observatory.
Koslov	29.53	750.1	30.06	763.6	27.9	— 2.3	87	nne.	9	4			10 s			0	0		
Lgov	29.43	747.0	30.04	763.1	33.1	0.6	90	e.	11	5			10			0.008	0.2	snow & fog	R. I. Ssaweljew, Engin'r.
Libau	30.08	763.9	30.10	764.5	19.6	— 6.9	72	ne.	11	5			10			0.024	0.6		L. Quass.
Lugan	29.74	755.4	29.95	760.6	48.4	9.1	63	sw.	9	4			8			0	0	light clouds	Meteorological Obs'y.
Moscow	29.67	753.6	30.20	767.0	11.8	—11.2	73	ene.	4	2			10 s			0.134	3.4		Meteorological Obs'y.
Nertschinsk	27.34	694.3	29.74	755.3	18.7	— 7.4	71	calm	0	0			10			inap.	inap.		
Nikolaiev	29.76	756.0	29.84	757.8	49.6	9.8	78	s.	22	10		cs	7 n			0	0		Capt. Kurdakow.

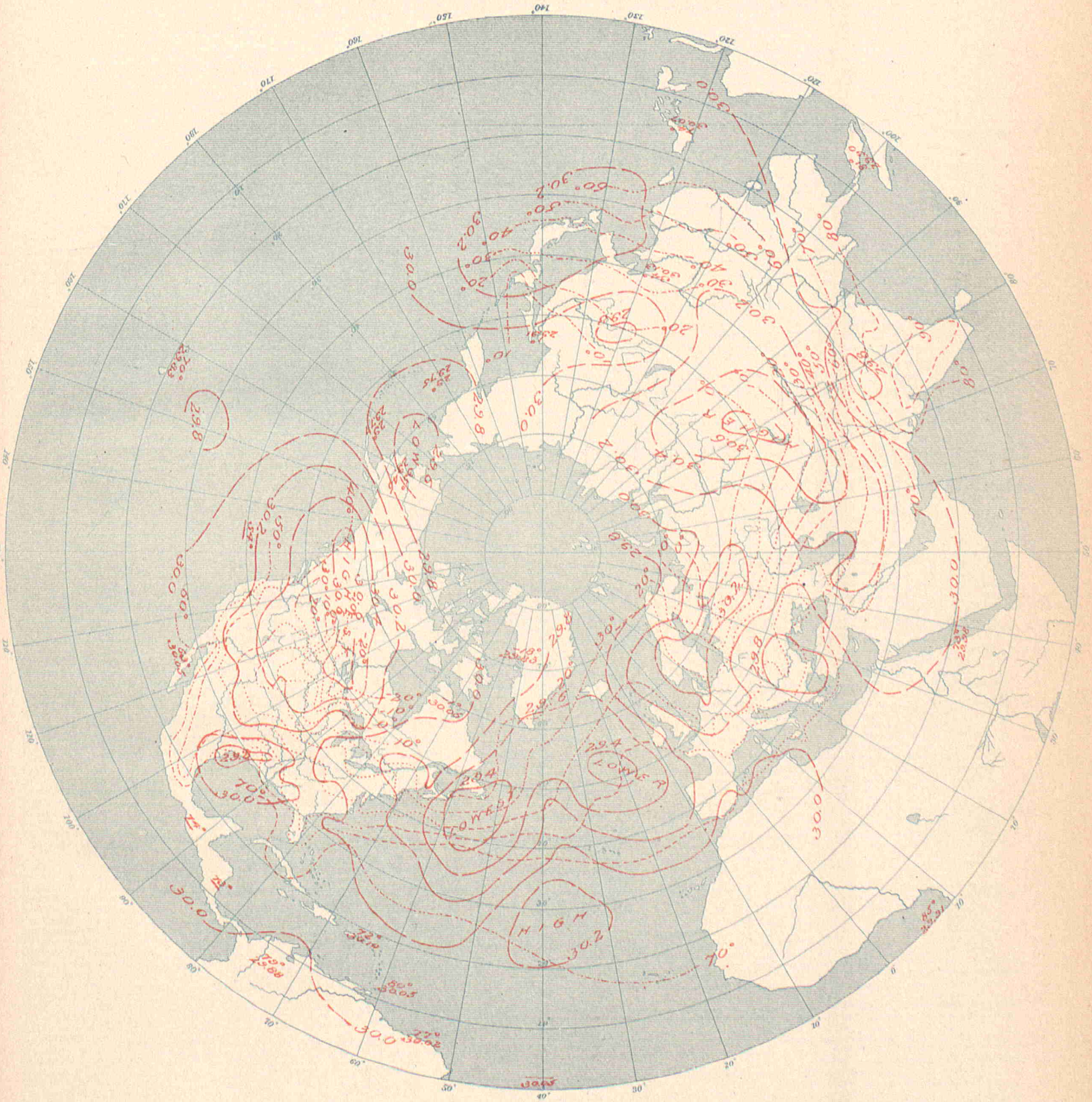
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolnievsk-on-the-Amoor.	29.82	757.4	29.91	759.6	1.4	−17.0	67	e.	2	1	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	29.99	761 8	30.13	765.4	33.6	0.9	84	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Siang.
Petro-Alexandrovsk	30.06	763.6	30.44	773.1	35.8	2.1	36	ese.	1.1	0.5	.....	.....	0	.....	.....	.....	.....	.....	Walter.
Petrozavodsk	30.06	763.6	30.29	769.3	− 4.9	−20.5	79	ese.	9	4	.....	0	0	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.39	746.4	29.89	759.2	42.1	5.6	75	e.	9	4	.....	.....	10 s	.....	.....	0	0	light clouds	
Poti	30.04	763 1	30.08	763.9	61.5	16.4	64	e.	4	2	.....	.....	0	.....	.....	0	0	.....	
St. Petersburg	30.23	767.8	30.25	768.4	13.6	−10.2	65	ene.	7	3	.....	0	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.85	707.3	30.45	773.4	33.1	0.6	67	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Dresch.
Semipalatinsk	29.87	758.7	30.62	777.7	− 2.0	−18.9	82	calm	0	0	.....	.....	9	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.69	754.1	29.90	759.4	58.3	14.6	24	s.	27	12	.....	7 cs	0	.....	.....	0.039	1.0	light clouds	
Staroi Bykhov	29.42	747.2	29.99	761.8	36.0	2.2	82	se.	7	3	.....	.....	10	.....	.....	0	0	light clouds	Carl Hagen.
Tashkend, Laboratory	28.74	730.0	30.56	776.1	24.1	− 4.4	81	calm	0	0	.....	.....	0	.....	.....	.....	.....	.....	Terch, A. M
Tiflis	28.75	730 2	30.21	767.2	45.3	7.4	38	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.76	705.0	30.52	775.1	10.4	−12.0	78	calm	0	0	.....	5 ck	0	.....	.....	.....	.....	.....	Sariono.
Viatka	29.18?	741.1?	29.87?	758.8?	1.0	−17.2	59	calm	0	0	.....	.....	1	.....	.....	0	0	.....	
Vladivostock	30.11	764 8	30.18	766.5	27.1	− 2.7	70	se.	9	4	.....	.....	0	.....	.....	0	0	.....	
Warsaw	29.45	748.0	29.89	759.1	36.5	2.5	82	sw.	4	2	.....	c	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y.
Yeniseisk	30.21	767.3	30.54	775.7	− 9.4	−23.0	72	sw.	9	4	.....	.....	3	.....	.....	0	0	.....	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.53	750.0	30.06	763.5	10.7	−11.8	67	ne.	9.8	4.4	.....	0	5 s	.....	ne.	0	0	fair	Bachmetieff.
Spanish.																			
Barcelona, Met. Obs'y	29.81	757.1	29.92	759.9	51.4	10.8	71	sw.	.....	.....	.....	0	1	.....	.....	0	0	clear	B.J.Elin.
Bilbao, Met. Obs'y	29.83	757.6	29.89	759.1	64.0	17.8	56	se.	2.2	1.0	.....	3	0	nw.	.....	0	0	almost clear.	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.96	684 7	29.91	759.8	53.6	12.0	45	sw.	5.6	2.5	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.5	29.98	761.4	54.0	12.2	54	se.	10.1	4.5	.....	3	0	nw.	.....	0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.82	757.4	29.96	760.9	64.8	18.2	69	wsw.	2.9	1.3	.....	4	4	e.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.86	733.0	29.75	755.7	52.5	11.4	69	sw.	10.5	4.7	.....	.....	10	.....	.....	0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.03	762.8	30.10	764.5	59.4	15.2	90	e.	1.6	0.7	.....	0	k	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	30.01	762.3	30.07	763 7	73.8	23.2	69	ese.	7.7	3.4	.....	0	s	.....	.....	0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.6	30.08	764.1	60.4	15.8	80	s.	10.6	4.7	.....	.....	10	.....	sw.	0.161	4.1	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	30.01	762.2	30.10	764.5	72.3	22.4	75	nw.	.....	.....	.....	0	2 k	.....	e.	0	0	clear	Enrique Gaden, Chf Eng
Swedish.																			
Haparanda	29.89	759.1	29.93	760.1	6.8	−14.0	100	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	
Umea	30.14	765.5	30.19	766.8	19.8	− 6.8	78	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Hernosand	30.15	765.7	30.20	767.0	25.9	− 3.4	74	calm	.....	.....	0	.....	7	.....	.....	0	0	.....	
Stockholm	30.11	764.8	30.29	769.3	23.7	− 4.6	60	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	30.06	763.6	30.12	765.1	27.0	− 2.8	92	e.	.....	.....	6	.....	10	.....	.....	0.024	0.6	.....	
Sub-series.																			
Upsala	30.18	766 6	30.27	768.8	23.9	− 4.5	82	nnw.	8.1	3.6	.....	.....	9	.....	ene.	0	0	.....	H.H.Hildebrandesson
Swiss.																			
Geneva	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.78	756.3	58.1	14.5	40	sse.	18	8.0	.....	.....	10	.....	sw.	0.268	6.8	raining	The Observatory.
Valona	.....	.....	29.92?	759.9?	57.0	13.9	.....	w.	.....	.....	2	.....	5	.....	.....	1.54	39.	½ covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.13	765.3	63.1	17.3	63	n.	.....	.....	2	c	2 k	sw.	se.	0	0	.....	F. Nimr, B. A., Dir.
United States.																			
Albany, New York	29.74	755.4	29.83	757.7	38.9	3.8	65	w.	1	0.4	.....	.....	10 s	.....	.....	0.19	4.8	cloudy	J. O. Barnes.
Alpena, Michigan	29.19	741 4	29.90	759.4	20.3	− 6.5	84	w.	4	1.8	.....	.....	10 n	.....	.....	0.06	1.5	light snow	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25 04	636.0	30.14	765.5	34.5	1.4	58	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.43	696 7	30.47	773.9	18.0	− 7.8	100	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	F. Newman.
Atlanta, Georgia	28.81	731.8	30.03	762.7	45.0	7.2	60	se.	3	1.3	.....	9 ck	sk.	nw.	.....	0	0	cloudy	S. W. Beall.
Atlantic City, New Jersey	29.89	759.2	29.90	759 4	34.0	1.1	79	nw.	2	0.9	.....	0	0	.....	.....	0.03	0.8	clear	B.A.Blundon.
Augusta, Georgia	29.86	758.4	30.06	763.5	44	6.7	76	calm	0	0	.....	10 c	sk.	w.	.....	0	0	cloudy	W.J.Evans.
Baltimore, Maryland	29.94	760.5	29.99	761.7	40.0	4.4	60	w.	3	1.3	.....	.....	10 s	.....	w.	0	0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	29.86	758.4	29.68	758.9	35.3	1.8	84	nw.	16	7.2	.....	0	0	.....	.....	0.06	1.5	clear	F.L.Johnson.
Bennett, Fort, Dakota	28.78	731.0	30.51	774.9	10.6	−11.9	87	nw.	17	7.6	.....	0	2 s	.....	nw.	0.03	0.8	clear	A. Pritchard.
Benton, Fort, Montana	27.38	695.4	30.38	771.0	28.1	− 2.2	89	calm	0	0	.....	.....	10 s	.....	nw.	.....	.....	cloudy	Thomas Morgan.
Bismarck, Dakota	28.56	725 4	30.54	775.7	− 3.0	−19.4	68	n.	14	6.3	.....	.....	10 n	.....	n.	0.08	2.0	light snow	B. O. Lenoir.
Block Island, Rhode Island	29.79	756.7	29.82	757.4	33.0	0.6	89	ne.	5	2.2	.....	.....	10 n	.....	.....	0.48	12.2	light snow	J. T. Elker.
Boise City, Idaho	27.57	700.3	30.53	775.4	32.5	0.3	81	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	James Kenealy.
Boston, Massachusetts	29.64	752.8	29.80	756.9	27.5	− 2.5	94	w.	2	0.9	.....	.....	10 s	.....	nw.	0.60	15.2	cloudy	O. B. Cole.
Brownsville, Texas	29.70	754.4	29.76	755.9	65.0	18.3	90	s.	16	7.2	.....	0	0	.....	.....	0	0	clear	John McGlone.
Buffalo, New York	29.15	740.4	29.94	760.5	28	− 2.2	88	sw.	12	5.4	.....	.....	10 n	.....	.....	0.09	2.3	light snow	Wm. Finn.
Buford, Fort, Dakota	28.39	721.1	30.60	777.2	− 9	−22.8	78	w.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	A. Schneider.
Cairo, Illinois	29.62	752 3	30.04	763.0	45.0	7.2	68	nw.	10	4.5	.....	.....	10 s	.....	nw.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.17	766.3	30.37	771.4	47.1	8.4	67	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J.H.Young.
Cape Henry, Virginia	29.99	761.7	30.01	762.2	41.0	5.0	73	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.93	760.2	29.96	761 0	37.0	2.8	82	w.	26	11.6	.....	2 cs	0	.....	.....	0.03	0.8	clear	W.E.Smith.
Cape Mendocino, California	29.44	747 8	30.14	765.5	54	12.2	31	se.	.....	.....	1	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.05	763 3	30.07	763.8	59.0	15.0	93	se.	3	1.3	.....	1 c	0	sw.	.....	0.01	0.3	clear	G. W. Davis.
Charleston, S. Carolina	29.94	760.5	30.00	762.0	50.5	10.3	69	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.15	740.4	30.04	763.0	42.1	5.6	75	w.	2	0.9	.....	6 cs	fg.	w.	.....	0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.10	740.7	30.02	762.5	47.5	8.6	56	n.	3	1.3	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.11	612.4	30.38	771.6	10.2	−12.1	83	n.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.16	740.7	29.91	759.7	31.9	− 0.1	76	w.	5	2.2	.....	.....	10 s	.....	w.	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	29.96	761.0	29.98	761.5	35.0	1.7	79	nw.	4	1.8	.....	hz.	0	.....	.....	0	0	clear	C. F. Dickens
Cincinnati, Ohio	29.29	744.0	29.98	761 5	38.9	3.8	81	s.	5	2.2	.....	9 c	0	.....	.....	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.18	741.2	29.96	761.0	28.0	− 2.2	82	sw.	9	4.0	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	W. Line.
Columbus, Ohio	29.07	738.4	29.97	761.2	32.3	0.2	74	se.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear	F.T. Williams
Concho, Fort, Texas	28.18	715.8	30.20	767.1	41.0	5.0	82	n.	16	7.2	.....	.....	10 s	.....	n.	0	0	cloudy	C. E. King.
Custer, Fort, Montana	27.13	689.1	30.49	774.4	12.5	−10.8	83	s.	4	1.8	.....	0	5 ks	.....	.....	0.01	0.3	fair	W.J.Daily.
Davenport, Iowa	29.32	744 7	30.02	762.5	23	− 5.0	73	nw.	15	6.7	.....	.....	10 ks	.....	nw.	inap	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	30.25	768 3	32.0	0.0	74	n.	16	7.2	.....	.....	10 s	.....	n.	0	0	clear	J. Williams.
Dayton, Washington T'y	28.73	729.7	30.55	776.0	30	− 1.1	88	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	H.S.Blandford.
Deadwood, Dakota	25 54	648.7	30.46	773.7	8.0	−13.3	73	sw.	3	1.3	.....	0	0	.....	.....	0.22	5.6	clear	G.Kingsbury.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	35.5	1.9	79	nw.	16	7.2	.....	0	0	.....	.....	0.01	0.3	clear	G.A.Martin.
Denver, Colorado	24.89	632.2	30.41	772.4	19.0	− 7.2	58	w.	4	1.8	.....	0	0	.....	.....	0.48	12.2	clear	F. M. Neal.
Des Moines, Iowa	29.28	743.7	30.25	768.3	11	−11.7	59	n.	16	7.2	.....	0	0	.....	.....	inap.	inap.	clear	F. W. Conrad.
Detroit, Michigan	29.18	741.2	29.93	760.2	31.5	− 0.3	78	sw.	8	3.6	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	N.B.Conger.
Dodge City, Kansas	27.64	702.0	30.38	771.0	25.3	− 3.7	73	n.	18	8.0	.....	0	4 s	.....	nw.	0.02	0.5	fair	J.E.Lanouette.
Dubuque, Iowa	29.26	743 2	30.02	762 5	25	− 3.9	92	w.	9	4.0	.....	.....	10 n	.....	.....	inap	inap	light snow	J. Harvey Smith
Duluth, Minnesota	29.37	746.0	30.18	766.6	10.0	−12.2	89	ne.	6	2.7	.....	.....	10 s	.....	.....	0.19	4.8	cloudy	E.R.Brace.
Eastport, Maine	29.07	753.6	29.74	755.4	18.5	− 7.5	75	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.40	695.9	30.30	769.6	30	− 1.1	100	ne.	24	10.7	.....	.....	10 n	.....	.....	0.08	2.0	heavy snow	J. C. Rickli.
El Paso, Texas	26.31	668 3	30.19	766.8	41.0	5.0	52	ne.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.18	741 2	29.95	760.7	29.0	− 1.7	88	sw.	8	3.6	.....	.....	10 n	.....	.....	0.11	2.8	light snow	C. A. Shaw.
Escanaba, Michigan	29.30	744.2	30.02	762.5	4.0	−15.6	79	n.	22	9.8	.....	.....	10 ks	.....	w.	0.03	0.8	cloudy	L.M.Pindell.
Fort Smith, Arkansas	29.56	750.8	30.06	763 5	40.4	4.7	82	n.	23	10.3	.....	.....	10 n	.....	.....	0.16	4.1	light rain	J. B. Campbell.
Galveston, Texas	29.79	756.7	29.83	757.7	63.7	17.6	88	s.	10	4.5	.....	3 ck	3 s	w.	sw.	0	0	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.10	740.7	29.87	758.7	29.5	− 1.4	88	se.	2	0.9	.....	.....	10 n	.....	.....	0.01	0.3	light snow	Joseph E. Mueller
Grant, Fort, Arizona	25.24	541.1	30.10	764 5	37.4	3.0	68	n.	5	2.2	.....	2 c	0	sw.	.....	0	0	clear	Chas. A. Rean.
Hatteras North Carolina	29.96	761.0	29.97	761.2	46.0	7.8	80	n.	16	7.2	.....	0	3 k	.....	s.	0	0	clear	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Helena, Montana	26.19	665.2	30.54	775.7	26	— 3.3	76	calm	0	0	.....	0	5 s	.....	.....	0	0	fair	S. W. Morrison.
Huron, Dakota	28.96	735.6	30.48	774.2	3.4	—15.9	89	n.	8	3.6	.....	6 c	0	.....	.....	inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	29.06	738.1	29.91	759.7	35.5	1.9	69	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.74	755.4	29.77	756.1	63.0	17.2	95	s.	12	5.4	.....	5 cs	3 s	nw	s.	0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.00	762.0	30.05	763.3	55.3	12.9	91	sw.	1	0.4	.....	0	fg.	.....	.....	inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	29.41	747.0	30.11	764.8	23.2	— 4.9	81	nw.	16	7.2	.....	8 k	0	nw.	.....	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.09	764.3	30.11	764.8	61.8	16.6	72	n.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	29.98	761.5	30.00	762.0	42.1	5.6	80	ne.	18	8.0	.....	0	0	.....	.....	0	0	clear	Wesley Blake.
Knoxville, Tennessee	28.96	735.6	30.04	763.0	38	3.3	77	ne.	4	1.8	.....	8 cs	1 s	w.	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.21	741.9	30.05	763.3	20	— 6.7	70	nw.	13	5.8	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	S. C. Emery.
Leavenworth, Kansas	29.34	745.2	30.29	769.4	23	— 5.0	67	n.	19	8.5	.....	0	5 s	.....	n.	0	0	fair	T. S. Outram.
Lewiston, Idaho	29.70	754.4	30.57	776.5	34.2	1.2	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.61	752.1	29.94	760.5	47.0	8.3	86	ne.	8	3.6	.....	.....	10 n	.....	.....	0.15	3.8	light rain	W. U. Simons.
Los Angeles, California	29.74	755.4	30.14	765.5	51.0	10.6	83	calm	0	0	.....	0	5 s	.....	.....	0	0	fair	T. S. Collins.
Louisville, Kentucky	29.36	745.7	29.95	760.7	41.0	5.0	74	s.	6	2.7	.....	10 cs	0	.....	.....	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.27	743.4	29.99	761.7	39.0	3.9	59	sw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.21	741.9	29.91	759.7	18.5	— 7.5	91	w.	6	2.7	.....	.....	10 n	.....	.....	0.18	4.6	light snow	D. B. Notson.
Macon, Fort, North Carolina	29.90	761.7	30.00	762.0	46.8	8.2	77	n.	11	4.9	.....	0	hz.	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.64	651.2	30.39	771.9	22.4	— 5.3	61	nw.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	F. Burke.
Marquette, Michigan	29.43	747.5	30.21	767.3	1.8	—16.8	79	n.	16	7.2	.....	.....	10 n	.....	.....	0.07	1.8	light snow	J. Gilligan.
Memphis, Tennessee	29.65	753.1	30.00	762.0	47.2	8.4	80	n.	4	1.8	.....	.....	10 n	.....	.....	0.25	6.3	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.70	739.1	29.90	759.4	27.4	— 2.6	82	w.	10	4.5	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	S. W. Rhode.
Mobile, Alabama	29.93	760.2	29.97	761.2	51	10.6	93	calm	0	0	.....	4 c;ck	2 s;sk	w.	.....	0	0	fair	H. U. Jones.
Montgomery, Alabama	29.74	755.4	29.98	761.5	47.9	8.8	63	e.	4	1.8	.....	5 cs	fg.	w.	.....	0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.36	745.7	30.46	773.7	—20	—28.9	100	n.	25	11.2	.....	0	0	.....	.....	0.05	1.3	clear	H. Bessant.
Mt. Washington, N. H.	23.35	593.1	29.97	761.2	24.0	— 4.4	100	se.	5	2.2	.....	.....	10 n	.....	se.	0.14	3.6	light snow	Edwd. A. Beals.
Nashville, Tennessee	29.39	746.5	30.00	762.0	45.0	7.2	88	sw.	1	0.4	.....	.....	10 n	.....	sw.	inap.	inap.	light rain	L. N. Jesunofsky.
New Haven, Connecticut	29.71	754.6	29.83	757.7	32.2	0.1	100	n.	1	0.4	.....	.....	10s;fg	.....	.....	0.25	6.3	cloudy	J. H. Sherman.
New London, Connecticut	29.77	756.1	29.82	757.4	33.0	0.6	88	calm	0	0	.....	.....	10 s	.....	nw.	0.59	15.0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.86	758.4	29.92	760.0	55.5	13.1	88	se.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	M. Herman.
New York, New York	29.71	754.6	29.90	759.4	35.4	1.9	74	sw.	3	1.3	.....	0	8 s	.....	sw.	0.05	1.3	cloudy	H. J. Penrod.
Norfolk, Virginia	29.95	760.7	29.98	761.5	41.0	5.0	68	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.32	693.9	30.42	772.7	19.9	— 6.7	76	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. J. Mc Lean.
Olympia, Washington Ter	30.44	773.2	30.48	774.2	39.0	3.9	86	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.12	739.6	30.39	771.9	10.3	—12.1	85	n.	24	10.7	.....	.....	10 n	.....	.....	inap.	inap.	light snow	A. Pollak
Oswego, New York	29.51	749.5	29.86	758.4	32.4	0.2	76	w.	16	7.2	.....	.....	10 n	.....	w.	0.24	6.1	light snow	J. G. Linsley.
Palestine, Texas	29.74	742.7	29.82	757.4	61.2	16.2	93	s.	7	3.1	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	P. T. Jenkins.
Pensacola, Florida	29.96	761.0	29.99	761.7	50.8	10.4	92	sw	3	1.3	.....	7 cs	0	w.	.....	0	0	fair	M. McGauran.
Philadelphia, Pa.	29.83	757.7	29.94	760.5	38.0	3.3	72	w	6	2.7	.....	0	3s;fg	.....	.....	0.04	1.0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.54	445.5	30.26	768.6	—14.0	—25.6	82	n.	26	11.6	.....	0	0	.....	.....	0.15	3.8	clear	H. Hall.
Pittsburg, Pennsylvania	29.15	740.4	30.01	762.2	32.0	0.0	94	w.	9	4.0	.....	.....	10 s	.....	w	0.04	1.0	cloudy	O. D. Stewart
Poplar River, Montana	.....	.....	.....	.....	—14.6	—25.9	80	calm	0	0	.....	1 c	0	.....	.....	0	0	clear	G. A. Carden.
Port Huron, Michigan	29.17	740.9	29.90	759.4	25.0	— 3.9	88	sw.	4	1.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	M. H. Perry
Portland, Maine	29.72	754.9	29.77	756.1	33.0	0.6	68	calm	0	0	.....	.....	10 s	.....	.....	0.63	16.0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.31	769.9	30.38	771.6	39.6	4.2	94	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.88	631.9	30.24	768.1	31.0	— 0.6	74	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass	29.76	755.9	29.79	756.7	32.4	0.2	100	calm	0	0	.....	.....	10 n	.....	.....	0.24	6.1	light snow	C. N. Kitchel.
Red Bluff, California	29.87	758.7	30.24	768.1	50	10.0	48	n	8	3.6	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.54	750.3	29.79	756.7	60.0	15.6	95	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y.	29.20	741.7	29.92	760.0	28	— 2.2	77	w.	15	6.7	.....	.....	10 k	.....	nw.	0.02	0.5	cloudy	E. W. McGann.
Roseburg, Oregon	29.73	755.1	30.30	769.6	36	2.2	89	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. Nanry.
Sacramento, California	30.10	764.5	30.17	766.3	50.0	10.0	68	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.40	746.7	30.06	763.5	35.0	1.7	69	nw.	15	6.7	.....	.....	10 ks	.....	nw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.42	747.3	29.45	748.0	35	1.7	100	se.	12	5.4	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.23	742.4	30.16	766.1	10.7	—11.8	65	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.60	751.8	30.57	776.5	—25	—31.7	80	nw.	14	6.3	.....	0	0	.....	.....	0.02	0.5	clear	C. B. Dilley.
Salt Lake City, Utah	25.93	658.6	30.49	774.4	29.3	— 1.5	64	nw.	2	0.9	.....	0	0	.....	.....	0.08	2.0	clear	J. Craig.
San Diego, California	30.02	762.5	30.09	764.3	50.6	10.3	83	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.22	742.2	29.94	760.5	31.5	— 0.3	83	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.87	758.7	29.90	759.4	36.0	2.2	79	w	16	7.2	.....	3 c	0	.....	.....	0.06	1.5	clear	V. P. Chappel.
Sanford, Florida	30.00	762.0	30.05	763.3	50.0	10.0	93	sw.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	J. B. Marbury
San Francisco, California	30.06	763.5	30.14	765.5	52.0	11.1	90	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	29.94	760.5	30.03	762.7	48.7	9.3	82	w.	4	1.8	.....	3 ck	fg.	w.	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.59	675.4	30.44	773.2	35	1.7	72	sw.	24	10.7	.....	9 k	0	w.	.....	0.02	0.5	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.58	751.3	29.76	755.9	59.2	15.1	83	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	30.57	776.5	30.64	778.2	39.5	4.2	92	e.	2	0.9	.....	.....	10 s	.....	e.	0.73	18.5	cloudy	F. W. Fickett.
Smithville North Carolina	29.96	761.0	30.00	762.0	45.3	7.4	70	nw.	6	2.7	.....	1 c	hz.	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.42	721.9	30.55	776.0	26.7	— 2.9	87	e.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	D. Moore.
Springfield, Illinois	29.29	744.0	30.02	762.5	33.1	0.6	81	nw.	17	7.6	.....	.....	10 s	.....	nw.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.06	687.3	30.19	766.8	43.0	6.1	76	n.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	30.29	769.4	.....	.....	43.1	6.2	92	e.	20	8.9	.....	0	2 s	.....	e.	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.37	695.2	30.20	767.1	41.2	5.1	52	w.	.....	.....	1	0	0	.....	.....	0	0	clear	R. O. Lord.
Toledo, Ohio	29.19	741.4	29.93	760.2	30.2	— 1.0	78	sw.	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy	A. Buell.
Unalaska, Alaska	29.75	755.6	29.77	756.1	29	— 1.7	88	s.	1	0.4	.....	0	2 s	.....	.....	0.12	3.0	clear	Samuel Applegate
Vicksburg, Mississippi	29.73	755.1	30.00	762.0	54	12.2	80	se.	10	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	C. Dill.
Washington, D. C.	29.87	758.7	29.99	761.7	35.0	1.7	77	nw.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.23	666.2	30.35	770.9	25.5	— 3.6	82	n.	12	5.4	.....	0	4 s	.....	nw.	0.10	2.5	fair	F. H. Brandenburg.
Wilmington, N. Carolina	29.95	760.7	30.01	762.2	49.0	9.4	60	nw.	3	1.3	.....	0	4 s	.....	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	29.05	737.9	30.47	773.9	9.6	—12.4	72	n.	22	9.8	.....	.....	10 s	.....	n.	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.99	761.7	30.14	765.5	61.6	16.4	28	n.	20	8.9	.....	1 c	0	nw.	.....	0	0	clear	W. S Delano.
Sub-series.																			
Behringsland, Kamchatka	29.73	755.1	29.75	755.6	28.5	— 1.9	84	s.	1	0.4	.....	.....	10 n	.....	.....	0.52	13.2	cloudy	George Oberuick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	.....	nw.	.....	.....	1	1 cs	3 k	.....	ne.	0.15	3.8	fair	W. H. Jackson.
Bogota, U. S. C.	21.97	558.0	.....	.....	55.4	13.0	90	calm	0	0	.....	2cs;ck	5 k	se.	nw.	0.109	4.3	.....	Joaquin Gomez.
Chimo, Fort, Ungava	29.90	759.4	30.06	763.5	— 1	—18.3	100	n.	18	8.0	.....	.....	10 s	.....	n.	0.09	2.3	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.08	764.0	68.2	20.1	84	n.	2	0.9	.....	0	0	.....	.....	0.02	0.5	clear	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	86	e.	.....	.....	2	5 ck	4 s	e.	.....	0	c	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.32	744.7	29.88	758.9	79	26.1	89	calm	.....	.....	0	.....	10 ks	.....	s.	.....	.....	raining	Francesco J. Gisnarc s.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73.4	23.0	90	e.	.....	.....	1	ck	0	se.	.....	0	0	clear	Earl Flint.
York Factory, B. A.	30.11	764.8	30.18	766.6	—24.0	—31.1	.....	nw	9	4.0	.....	0	0	.....	.....	0	0	clear	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.98	761.4	29.98	761.6	77.7	25.4	83	n.	9.4	4.2	.....	0	5 k	.....	n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.96	761.0	30.03	762.7	70.2	21.2	94	n.	.....	.....	4	0	1 k	.....	n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
S. S. Assyrian Monarch, N. 40° 04′, W. 69° 15′†	29.70	754.4	38	3.3		wnw.			4		7?		wnw.	8 h'r	8 h'r	high	ne.	clear.?
S. S. Alvo, Kingston, Jamaica, W.I*	30.13	765.3	74	23.3		ne.			3		5		ne.	o	o			fine.
S. S. Ailsa, N. 20° 52′, W. 74° 14′			75.2	24.0	92	ene.			2		2		ne.	o	o	sm'h		fine.
Schr. Arthur Burton, Fernandina, Fla†	29.97	761.2				ese.			1		4		ese.	o	o			fine.
S. S. Alps, N. 33° 51′, W. 74° 23′ *†	29.87	758.7				nw.			4		3		nw.	o	o	chop		
S. S. Anchoria, N. 50° 09′, W. 36° 20′						wnw.			5		4		w.	3 h'r	3 h'r	h'vy	wnw.	
S. S. Circassian, N. 44° 39′, W. 63° 37′			24	— 4.4		nnw.			6		10		nnw.			4	ese.	snowing
S. S. Canada, (Br) New York Harbor, N. Y †	29.86	758.4	39	3.9		sw.			4		8			shr's	shr's	sm'h		fair.
S. S. Canada, (Fr) N. 48° 43′, W. 28° 05′	29.54	750.3	39.2	4		n.			1		k		n.	o	o	h'vy		covered.
S. S. Chalmette, Algiers, La			56	13.3		s.			3		10			o	o			cloudy.
S. E. J. Spicer, N 40° 45′, W. 71° 34′	29.88	758.9	37	2.8	100	nne.			2-6		10		ne.			mod.	se.	raining.
S. S. France, N. 40° 28′, W. 72° 04′ *†	29.84	758.0				w.			2		6		w.	rain	rain	sm'h	w.	fair.
S. S. Frisia, N. 41° 42′, W. 51° 47′	29.38	746.2				sw.			5		10		sw.	4 h'r	4 h'r	hv'y	sw.	covered.
S. S. Grecian, Portland, Me	29.81	757.2	37	2.8	90	sw.			1		10			17 h'r	17 h'r			hazy.
Bg. George, N. 33° 12′, W. 68° 55′						nnw.			2		0			rain	rain	r'gh	var.	clear.
S. S. Hohenstaufen, N. 40° 43′, W. 67° 00′	29.71	754.6	41.0	5.0	91	nnw.			5		4		nnw.	22 h'r	22 h'r	mod.	nnw.	overcast.
Bk. Idaho, N. 26° 00′, W. 79° 50′*†	30.06	763.5				calm			0		0			o	o	sm'h		clear.
S. S. Iowa, N. 48° 14′, W 30° 14′ †	29.59	751.6	50	10.0		w.			5		6		w.	3 h'r	3 h'r	long	w.	fair.
Schr. Jennie N. Huddell, Wilmington, N C†	29.99	761.7	50	10.0		nw.			1		0			o	o			clear.
Bg. L. & W. Armstrong, N. 33° 47′, W. 62° 25′ †	29.84	757.9				wnw.			6		5		wsw.	2 h'r	2 h'r	long	s.	light rain.
S. S. Lone Star, N. 27° 16′, W. 79° 50′*†	30.09	764.3	68	20.0		nw.			2		0			o	o	mod.	n.	hazy.
S. S. Lessing, N. 41° 57′, W. 48° 23′	29.47	748.5	51	10.6		ssw.			6		10		sw.	2 h'r	2 h'r	r'gh	sw.	foggy.
S. S. Mentmore, N. 40° 04′. W. 67° 08′*†	29.62	752.3				nnw.			8		10			8 h'r	8 h'r	mod.	e.	cloudy.
S. S. Neckar, N. 50° 39′, W. 0° 22′	29.98	761.5	44.0	6.7	92	se.			3		4		se.	o	o	sm'h	se.	fair
S. S. Orinoco, Hamilton, Bermuda			64	17.8		wnw.			4		3		nw.	3 h'r	3 h'r			clear
S. S. Oregon, (Br.) N. 47° 04′, W. 36° 00′ *	29.77	756.1	43	6.1		wnw.			5		7		wnw.	5 h'r	5 h'r	long	w.	squally.
S. S. Ohio, (Am.) N. 40° 38′, W. 69° 15′ *†	29.78	756.4	35	1.7	90	wnw.			2		10		n.	10 h'r	10 h'r	mod.	ne.	cloudy.
S. S. Pennsylvania, Philadelphia, Pa			38	3.3	72	n.			4		6		nnw.	o	o			fair.
S. S. Polynesian, N. 47° 32′, W 38° 29′	29.84	757.9	43	6.1		wnw.			4		8		nw.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. P. Caland, N. 46° 32′. W. 37° 12′			46	7.8	84	wnw.			5		8		w.			5	wnw.	squally.
S. S. Rhein, N. 43° 07′, W. 53° 48′	29.25	742.4				sw.			8-9		8		sw.	o	o	r'gh	sw.	stormy.
S. S. Rhynland, New York, N. Y	29.89	759.2	38	3.3	63	w.			4		2		w.	1 h'r	1 h'r			rainy.
S. S. Scandinavian, N. 46° 44′, W. 39° 40′	29.84	757.9	40	4.4		wnw.			3		10		wsw.	sh'rs	sh'rs	high		d. clouds.
S. S. Switzerland, N. 39° 10′, W. 55° 22′*†	29.38	746.2				sw.			6		8		sw.	8 h'r	8 h'r	hv'y	sw.	cloudy.
S. S. Samaria, off Queenstown, Ireland	29.74	755.4	47	8.3		se.			5		10		sw.	5 h'r	5 h'r	mod.	sse.	misty.
S. S. Valencia, Curacoa, W.I †	30.04	763.0	80	26.7	87	ene.			3		4		ene.	o	o			fair.
S. S. Belgenland, N. 48° 15′, W. 22° 49′			50	10.0	93	sw;nw			4				nw.			mod	w.	cloudy.
S. S. Pennland, N. 41° 20′, W. 57° 16′			40	4.4	100	sw.			9		10			5 h'r	5 h'r	high	wsw.	squally.
S. S. State of Georgia, N. 52° 19′, W. 26° 21′†	29.34	745.2	48	8.9		sw.			6-7		*5		wsw.	sh'rs	sh'rs	mod.	wsw.	squally.
Schr. Adda Doane, N. 19° 35′, W. 73° 50′†	30.11	764.8				ene.			2		2		ne.	1 h'r	1 h'r	mod	n.	clear.
Bg. Alcira, N. 33° 56′, W. 73° 34′			65	18.3		wnw.			2		1		wnw.	o	o	mod.	wnw.	hazy.
S. S. British Prince, off Tuskar rock, Ireland			51	10.6		se.			4		8		se.	6 h'r	6 h'r	sm'h		cloudy.
S. S. Cienfuegos, N. 19° 40′, W. 77° 08′	30.10	764.5	73	22.8		ne.			2		2		ne.	o	o			clear.
Bk. Chas. Stewart, Barcelona, Spain*†	29.90	759.4				s.			5		2		s.	o	o	sm'h	s.	fair.
Bk. Cato, Oporto, Portugal †	29.84	757.9	55	12.8	90	sse.												
S. S. D. J. Foley, N. 30° 43′, W. 75° 05′*†	30.02	762.5	72	22.2	80	wsw.			5-6		0			o	o	long	nw.	hazy.
S. S. Labrador, N 48° 27′, W. 26° 15′*†	29.53	750.0	46.4	8.0		wnw.			4		2		wnw.	o	o	large	w.	clear.
S. S. New York, N. 27° 40′. W. 87° 15′*†	30.00	762.0	75	23.9		sw.			5		2		sw.	o	o	sm'h	sw.	clear.
S. S. Pavonia, N. 49° 31′, W. 27° 55′	29.54	750.3	47	8.3	77	sw.			6		5			o	o	long	wsw.	fair.
S. S. Rialto, N. 48° 55′, W. 30° 55′			44	6.7		nnw.			6		5		n.	o	o	high	nw.	fair.
S. S. Wieland, N. 47° 04′, W. 35° 32′*	29.02	752.3	40	4.4		nw.			4		6		nw.	o	o	long	nw.	fair.
S. S. Weser, N. 48° 41′, W. 20° 46′	29.47	748.5	48.2	9.0		w.			5		4		w.	¼h'r	¼h'r	long	w.	fair.
S. S. Westphalia, N. 45° 39′. W. 36° 11′			48	8.9	85	nw.			5		6		w.	2 h'r	2 h'r	h'vy	sw.	fair.
S. S. St. Laurent, Havre, France	29.97	761.3	46.4	8.0		e.			3		10		e.	1 h'r	1 h'r			overcast.
S. S. Main, N. 49° 49′, W. 5° 38′			51.8	11.0		s.			4		5		s.	2 h'r	2 h'r	sm'h	s.	showery.
U. S. Navy Yard, Portsmouth, N. H *	29.72	754.9	30	— 1.1	89	sw.	4	1.8			10		ssw.	o	o			cloudy.
U. S. S. Alliance, Orange Town, St. Eustatius, W. I	30.07	763.8	76	24.4	77	ene.			2		5		ene.	light	light			fair.
U. S. S. Kearsarge, Palermo, Sicily	29.91	759.7	63	17.2	62	w.			5		5		wnw.					fair.
U. S. S. Lancaster. Palermo, Sicily	29.94	760.5	62	16.7	100	wsw.			5		8		sw.	light	light	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	29.75	755.6	37	2.8		nne.			2		10					sm'h		cloudy.
U. S. S. Portsmouth, N. 36° 43′. W. 75° 42′	30.00	762.0	41	5.0	91	nne.			2		10							hazy.
U. S. S. Powhatan, N. 32° 20′, W. 80° 08′	30.03	762.7	56	13.3	75	sw.			1		2					sm'h		hazy.
U. S. S. Quinnebaug, Leghorn, Italy	29.78	756.4	55	12.8	68	e.			2		2					sm'h		fair.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.04	763.0	74	23.3	90	ese.			1		2		ene.	o	o	sm'h		clear.
U. S. S. Trenton, Suez Canal, Egypt	30.06	763.5	71	21.7	45	calm			0		2							fair.
U. S. S. Vandalia, N. 13° 01′, W. 70° 43′	29.99	761.7	77	25.0	86	e.			3		2		calm			sm'h		fair.
U. S. S Yantic, Port Royal, S.C	30.06	763.5	55	12.8	74	calm			0		0							hazy.
H. M. S. Alexandra, N. 35° 06′, E. 33° 57′	30.16	766.1	63	17.2	83	ese.			2		2		ese.					d. clouds.
H. M. S. Alecto, N. 6° 25′, E. 3° 20′	29.86	758.4	85	29.4		ssw.			1		3	wsw.				6	s.	d. clouds.
H. M. S. Boadicea, Jellah Coffee, W. Africa			83	28.3	87	se.			1		2	ese.				1	ese.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.87	758.7	63.5	17.5	75	nw.			5		6	nnw.						d. clouds
H. M. S. Himalaya, N. 44° 39′, W. 63° 35′			23	— 5.0		n.			4		9							squally.
H. M. S. Minotaur, N. 39° 30′, E. 11° 45′	29.86	758.4	58	14.4	79	wsw.			4		8					1	wsw.	d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.91	759.6	85.1	29.5	68	ese.			2		5			o	o		se.	d. clouds.
S. S. Lord Clive, N. 50° 47′. W. 16° 50′						sse.			4		8		se.	3 h'r	3 h'r	mod.	ssw.	cloudy.
S. S. Athos, Sandy Hook, N. J						w.			5		0			o	o	sm'h		clear.
S. S. Carroll, N. 43° 08′, W. 65° 50′*†	29.76	755.9	28	— 2.2		n.			6		10		n.	h'vy	h'vy	long	e.	snow squalls
S. S. Llandaff City, N. 51° 15′, W. 8° 58′*†	29.70	754.4	48	8.9		s.			4		10			24 h'r	24 h'r	mod.	con.	
S. S. Scythia, N. 49° 09′, W. 26° 48′			48	8.9	100	wnw.			4		4		wnw.	3 h'r	3 h'r	r'gh	wnw.	clear.
S. S. Wisconsin, N. 41° 27′, W. 68° 30′	29.72	754.9	47?	8.3?		nw.			3		10		n.	o	o	long	e.	cloudy.
S. S. Bohemia, N. 40° 33′, W. 66° 15′						nnw.			6-9		10		nnw.	5 h'r	5 h'r	long	nnw.	overcast.
S. S. Nessmore. N. 40° 56′, W. 57° 56′			52	11.1	86	nw.			9		7		nw.	9 h'r	9 h'r	h'vy	nw.	gloomy.
S. S. Archimedes, (Br) N. 43° 07′, W. 10° 29′						sse.			5		10		s.	o	o	mod.	s;nw.	overcast.
S. S. Olbers, N. 35° 41′, W. 15° 03′	29.88	758.9	61	16.1	88	sw.			6		5		sw.			4	con.	d. clouds.
S. S. Archimede, (It.) N. 33° 56′, W. 34° 53′			68	20.0		wnw			3		4		wnw.	o	o	mod	nw.	fair.
S. S. Picqua, Corunna, Spain			55	12.8	74	sse.			3				sse.	o	o			cloudy.
S. S. Dominion, N. 42° 16′ W. 50° 42′*†	29.38	746.2	45	7.2	100	se.			4		10		se.			con.	ese.	cloudy
S. S. Texas, N. 40° 49′, W. 54° 32′*†	29.36	745.7	48	8.9		wnw.			5		7		nnw.	o	o	high	w.	cloudy.
S. S. Denmark, London, Eng			50	10.0	100													
S. S. England, Mersey river, Eng	30.01	762.2				se.			3		fg		se.	o	o			light fog.
S. S. Erin, Staten Island, N.Y†	29.84	757.9	42	5.6		w.			3		4		wnw.	6 h'r	6 h'r			fine.
S. S. City of Augusta, New York, N. Y						nnw.			2		8		w.	o	o			cloudy.
S. S. Muriel, Barbadoes, W. I	30.12	765.0	81	27.2		ene.			2		0			o	o	sm'h		clear.
S. S. Waesland, Antwerp, Belgium			41	5.0		e.			4		4		e.	o	o			fair.
S. S. Westernland, Scheldt river, Netherlands	30.11	764.8	41	5.0	82	ese.			4		7		s.	o	o	sm'h		cloudy.
S. S. W. A. Scholten, Rotterdam, Netherlands	30.12	765.0	43.5	6.4	82	ene.			2		2		ene.	o	o			fair.
S. S. Saxon, Philadelphia, Pa *†	29.94	760.5	37	2.8		w.			1		0			o	o			fine.
S. S. Celtic, Liverpool, Eng*†	29.94	760.5	44	6.7		e.			4		5		e.	o	o			foggy.
S. S. Romano, Hull, Eng			42	5.6		e.			3		2		e.	o	o			dull.
S. S. Salerno, N. 47° 19′, W. 27° 25′			54	12.2		wnw.			3		5		wnw.	o	o	mod.	wnw.	fine.
S. S. Antonio Lopez. Cadiz, Spain			58.5	14.7	79	ssw.			6		8			h'vy	h'vy			squally.
Bgt. Achsah, Barbadoes, W. I †	30.06	763.5	77	25.0		ene.			1		2		ene.	o	o	sm'h	e.	clear
S. Armenia, N. 42° 18′, W. 33° 20′*	29.88	758.9	52	11.1	73	wnw.			6		7		wnw.	1 h'r	1 h'r	r'gh	wnw.	fair.
S. S. Bracadalle, N. 49° 25′, W. 15° 02′*	29.45	748.0	56	13.3		e.			2		3		e.	5 h'r	5 h'r	con.		fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Benjamin Dickerman, N. 8° 50′, W. 53° 45′ *†	30.09	764.3	78	25.6	.....	ene.	.....	.....	5	.....	4	.....	e.	0	0	r'gh	ne.	smoky.
S. Cornelius, N. 43° 08′ W 34° 33′	.....	.....	47.8	8.8	.....	nw.	.....	.....	4	.....	5	.....	n.	3 h'r	3 h'r	cross	var.	squally.
S. Dora, N. 40° 08′, W. 47° 17′†	29.50	749.3	57.2	14.0	.....	sw.	.....	.....	6	.....	5	.....	sw.	4 h'r	4 h'r	mod.	s.	foggy.
S. David Stewart, Orchilla Island, Venezuela	.....	.....	78	25.6	.....	ese.	.....	.....	4	.....	3	.....	ene.	0	0	.....	.....	
Schr. Edith R. Seward, N. 8° 00′, W. 56° 15′	.....	.....	81	27.2	.....	ne.	.....	.....	2	.....	4	.....	ene.	0	0	mod.	ene.	clear.
Bk. Fred W. Carlon, Progreso Roads, Mexico	.....	.....	80	26.7	.....	s.	.....	.....	4	.....	.....	.....	n.	0	0	r'gh	n.	cloudy.
Bk. Gloire, Sandy Hook, N. J	.....	.....	38	3.3	.....	w.	.....	.....	3	.....	sk.	.....	.....	light	light	short	ese.	fine.
Bk. Godeffroy, N. 15° 51′, W. 51° 47′	30.08	764.0	73.9	23.3	69	ene.	.....	.....	5	.....	7	.....	.....	light	light	mod.	ne.	cloudy.
Bk. George Davis, N. 48° 58′, W. 21° 20′*†	29.37	746.0	.....	.....	.....	nne.	.....	.....	3	.....	.....	.....	nne.	0	0	.....	w.s.	covered.
Bk. Galeon, N. 56° 25′, W. 0° 48′†	29.97	761.2	46	7.8	.....	sse.	.....	.....	4	.....	10	.....	sse.	0	0	small	s.	misty.
S. Gatherer, N. 38° 28′, W. 73° 55′†	29.94	760.5	40	4.4	82	wnw.	.....	.....	4	.....	2	.....	w.	0	0	gr'nd	ne.	clear.
Bk. Hattie G. McFarland, Aspinwall, Panama†	29.96	761.0	78	25.6	.....	ne.	.....	.....	5	.....	6	.....	ne.	0	0	long	nne.	
Schr. Jas. Slater, N. 35° 53′, W. 60° 30′	.....	.....	.....	.....	.....	wnw.	.....	.....	7	.....	10	.....	wnw.	2 h'r	2 h'r	h'vy	var.	squally.
Bg. John Welsh, jr., N. 28° 35′, W. 63° 25′	.....	.....	.....	.....	.....	nw.	.....	.....	4	.....	.....	.....	n.	.....	.....	r'gh	wsw.	
Schr. John Bird, N. 28° 33′, W 69° 31′	.....	.....	.....	.....	.....	w.	.....	.....	3	.....	2	.....	wsw.	0	0	mod.	sw.	fair.
Schr. Jenny Greenbank, N. 36° 04′, W. 67° 26′*	29.80	756.9	59	15.0	.....	nw.	.....	.....	6	.....	3	.....	nw.	rain	rain	r'gh	nw.	fair.
S. S. Laurel, Key West, Fla†	30.08	764.0	66	18.9	.....	nne.	.....	.....	1	.....	3	.....	nne.	0	0	.....	.....	clear.
Bg. L. F. Munson, Matanzas, Cuba, W.I.	.....	.....	67	19.4	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Madrid, N. 39° 28′, W. 9° 28′ †	29.81	757.2	58	14.4	94	ssw.	.....	.....	5	.....	2	.....	ssw.	1 h'r	1 h'r	mod.	sw.	fair.
Schr. Minnie A. Bonsall, Brunswick, Ga *†	30.00	762.0	.....	.....	.....	wnw.	.....	.....	1	.....	.....	.....	s.	0	0	.....	.....	clear.
Schr. Maggie Abbott, Gonaives, Hayti, W.I*†	30.00	762.0	.....	.....	.....	.....	.....	.....	0–4	.....	3	.....	e.	0	0	.....	.....	clear.
Schr. Norena, Arroyo, Porto Rico, W. I†	30.05	763.3	.....	.....	.....	nne.	.....	.....	1	.....	3	.....	ene.	0	0	light	ese.	fine.
Bk. Orpheus, N. 47° 25′, W. 32° 19′ *	29.58	751.3	46	7.8	.....	wnw.	.....	.....	6	.....	10	.....	.....	.....	.....	mod.	nw.	squally.
Bk. Sunbeam, N. 40° 57′, W. 37° 20′*†	30.00	762.0	52	11.1	86	w.	.....	.....	5	.....	9	.....	wsw.	1 h'r	1 h'r	h'vy	nnw.	cloudy.
Bgt. Sunlight, N. 7° 39′, W. 57° 40′	.....	.....	.....	.....	.....	nnw.	.....	.....	3	.....	2	.....	ne.	0	0	.....	.....	
S. St. David, N. 30° 38′, W. 41° 05′ *†	30.38	771.6	66.3	19.1	74	wsw.	.....	.....	3	.....	2	.....	var.	0	0	.....	.....	hazy
S. Stephen D. Horton, Antwerp, Belgium†	30.06	763.5	.....	.....	.....	e.	.....	.....	5	.....	10	.....	e.	0	0	.....	.....	cloudy.
Bk. Tuck Sing, N. 40° 02′, W 73° 35′	.....	.....	.....	.....	.....	wnw.	.....	.....	5	.....	0	.....	.....	0	0	long	ese.	fine.
Bk. Tros, Crosby Channel, Eng *†	29.96	761.0	45	7.2	.....	se.	.....	.....	3	.....	5	.....	se.	0	0	mod.	se.	lightrain.
S. Vincenzo Accame, N. 37° 10′, W. 37° 14′†	30.13	765.3	64.4	18	.....	wnw.	.....	.....	3	.....	4	.....	nw.	0	0	r'gh	var.	fair.
Bk. Winifred, N. 1° 16′, W. 41° 08′*†	30.05	763.3	.....	.....	.....	ne.	.....	.....	.....	.....	.....	.....	ne.	2 h'r	2 h'r	.....	ne.	
Bk. Western Chief, N. 37° 45′, W 61° 59′*†	29.59	751.6	.....	.....	.....	nw ;w.	.....	.....	7–8	.....	8 k	.....	nw.	.....	.....	8	nw.	squally.
S. S. City of Alexandria, N. 22° 38′, W. 85° 21′*†	30.10	764.5	83	28.3	.....	sse.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	se.	blue sky.
S. S. Strathleven, N. 51° 22′, W. 8° 53′ *	29.70	754.4	58	14.4	97	se.	.....	.....	2	.....	10	.....	.....	.....	.....	3	var.	foggy.
S. Frank N. Thayer, N. 38° 14′, W. 57° 38′*	29.40	746.7	61	16.1	.....	wnw.	.....	.....	9	.....	.....	.....	.....	5 h'r	5 h'r	h'vy	wsw.	raining.
District No. 2—South Atlantic.																		
U. S. S. Pinta, S. 36° 46′, W. 55° 54′	30.14	765.5	60	15.6	71	se.	.....	.....	2	.....	2	.....	se.	.....	.....	long	se.	clear.
H. M. S. Amethyst, S. 41° 26′, W. 60° 40′	30.05	763.3	60.5	15.8	71	n.	.....	.....	1	.....	3	nw.	.....	.....	.....	2	se.	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	30.01	762.2	.....	.....	.....	se.	.....	.....	7	.....	0	.....	.....	.....	.....	.....	.....	squally.
H. M. S. Sylvia, S. 41° 12′, W. 60° 21′	30.13	765.3	61.5	16.4	74	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	2	sse.	blue sky.
H. P. M. S. Tejo, Noki, Guinea	30.06	763.5	86.9	30.5	92	calm	.....	.....	0	.....	7	.....	.....	0	0	.....	.....	d. clouds.
H. P. M. S. Rainha de Portugal, Benguela, Benguela	29.92	760.0	84.2	29.0	72	nw.	.....	.....	3	.....	3	.....	.....	0	0	2	.....	d. clouds.
H. P. M. S. Bengo, S. 1° 08′, W. 11° 15′	29.93	760.3	82.4	28.0	88	ssw.	.....	.....	3	.....	2	.....	sw.	0	0	3	sw.	d. clouds.
S. S. Hevelius, Buenos Ayres, La Plata *†	30.00	763.5	72	22.2	.....	sse.	.....	.....	6	.....	4	.....	sse.	0	0	.....	.....	clear.
Bk. Adelaide, S. 19° 39′, W. 37° 43′ *†	30.00	762.0	.....	.....	.....	n.	.....	.....	6	.....	1	.....	nne.	0	0	mod.	nne.	clear.
Bk. Celestina, S. 30° 39′, W. 43° 38′ *†	29.96	761.0	.....	.....	.....	ssw.	.....	.....	4	.....	2	.....	s.	½ h'r	½ h'r	.....	wsw.	clear.
S. S. George S. Homer, S. 11° 32′, W. 32° 27′*†	30.14	765.5	.....	.....	.....	ene.	.....	.....	1	.....	1	.....	ene.	1 h'r	1 h'r	sm'h	ne.	clear.
S. Grecian, S. 23° 10′, W. 28° 21′ †	30.17	766.3	81	27.2	74	nne.	.....	.....	5	.....	5	.....	ne.	light	light	mod.	e.	fine.
S Henry Fulling, S. 19° 40′, W. 27° 32′*†	30.08	764.0	81	27.2	100	ne.	.....	.....	5	.....	4	.....	ene	0	0	sm'h	.....	clear.
Bk. Horace Scudder, Banana Creek, Guinea *†	30.10	764.5	88	31.1	.....	wnw.	.....	.....	3	.....	2	.....	w.	0	0	.....	.....	clear.
S. Ismir, S. 49° 39′, W. 51° 10′ *†	29.75	755.6	.....	.....	.....	ssw.	.....	.....	6	.....	5	.....	ssw.	1 h'r	1 h'r	high	ssw.	dull.
Bkt. Levanter, Montevideo, Uruguay*	30.10	764.5	68	20.0	.....	e.	.....	.....	1	.....	3	.....	ese.	0	0	.....	.....	fair.
S. S. Teniers, S. 22° 40′, W. 36° 58′	29.91	759.7	81.0	27.2	75	n.	.....	.....	6	0	0 k	.....	nw.	0	0	5	n.	d. clouds.
District No. 3—North Pacific.																		
U. S. S Alert, N. 32° 00′, E. 126° 00′	30.22	767.6	55	12.8	93	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	rainy.
U. S. S. Essex, Canton, China	30.04	763.0	59	15.0	.....	se.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Hartford, Honolulu, Sandwich Islands	29.83	757.7	70	21.1	90	calm	.....	.....	0	.....	0?	.....	.....	0	0	.....	.....	cloudy.?
U. S. S Juniata, N. 35° 34′, E. 124° 41′	30.26	768.6	40	4.4	91	ene.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
U. S. S. Monocacy, Amoy, China	30.12	765.0	59	15.0	76	se.	.....	.....	1	.....	10	.....	se.	.....	.....	sm'h	.....	cloudy.
U. S. S. Palos, Tientsin, China	30.13	765.3	34	1.1	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
H.M.S. Audacious, Tyshan Bay, China	30.01	762.2	67	19.4	89	ene.	.....	.....	3	.....	4	ne.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Cleopatra, N. 23° 07′, E. 117° 27′	.....	.....	65	18.3	84	ne.	.....	.....	3	.....	9	wnw.	.....	.....	.....	4	.....	showery.
H. M. S. Champion, Shanghai, China	30.21	767.3	52	11.1	86	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	foggy.
H. M. S. Flying Fish, N. 25° 25′, E. 119° 42′	30.14	765.5	55.8	13.2	84	calm	.....	.....	0	.....	6	nw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.90	759.4	80.7	27.1	78	ne	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	misty.
H. P. M. S. Tamega, Macao, China	30.10	764.4	68.0	20.0	80	n.	.....	.....	1	.....	0	.....	.....	4 h'r	4 h'r	.....	.....	blue sky.
S. S. Newbern, N. 33° 03′, W. 118° 29′	.....	.....	58	14.4	88	nw.	.....	.....	3	.....	10	.....	nw.	0	0	.....	wnw.	cloudy.
S. S. Oregon, N. 42° 39′, W. 124° 40′†	30.25	768.3	52	11.1	73	calm	.....	.....	0	.....	0	.....	.....	.....	.....	long	wnw.	clear.
S. S. Willamette, N. 39° 03′, W. 124° 00′†	30.13	765.3	53	11.7	93	sse	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	dense fog.
S. S. Alameda, Honolulu, Sandwich Ids †	29.94?	760.5?	69	20.0	.....	s.	.....	.....	1	.....	0	.....	.....	2 h'r	2 h'r	.....	.....	clear.
S. S. Ancon, Point Fermin, Cal	30.09	764.3	59	15.0	100	e.	.....	.....	2	.....	0	.....	.....	0	0	mod	w.	misty.
S. S. City of Chester, San Francisco, Cal †	30.14	765.5	49	9.4	85	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Queen of the Pacific, S. 40° 54′, W. 125° 00′	.....	.....	33?	0.6?	89	s.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. State of California, Astoria, Oregon †	30.44	773.2	38	3.3	?	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Eureka, N. 53° 39′, W. 130° 10′	.....	.....	42	5.6	91	calm	.....	.....	0	.....	10	.....	.....	0	0	sm'h	.....	dense fog.
S. S. City of Pekin, N. 31° 40′, W. 150° 00′†	29.77	756.1	64	17.8	78	ssw.	.....	.....	6	.....	4	.....	sw.	.....	.....	rg'h	sw.	squally.
S. S. City of Rio de Janeiro, Yokohama, Japan	.....	.....	.....	.....	.....	n.	.....	.....	1	.....	1	.....	ne.	.....	.....	.....	.....	clear.
S. S. City of Sydney, N. 15° 39′, W. 160° 38′*†	29.89	759.2	75	23.9	81	nw.	.....	.....	2	.....	2 ks	.....	nw.	.....	.....	h'vy	wnw.	clear.
S. S. Colima, Panama, Panama †	29.89	759.2	75	23.9	81	calm	.....	.....	0	.....	4	.....	calm	0	0	.....	.....	clear.
S. S. San Blas, N. 26° 42′, W. 114° 18′†	30.05	763.3	63	17.2	89	n.	.....	.....	3	.....	6	.....	w.	0	0	sm'h	wnw.	fair.
S. S. San Jose, N. 15° 15′, W. 93° 35′	.....	.....	74	23.3	.....	e.	.....	.....	3	.....	1	.....	w.	0	0	small	se.	clear.
S. S. Benalder, Nagasaki, Japan *	30.27	768.8	52	11.1	73	n	.....	.....	2-3	.....	5	.....	nnw.	0	0	sm'h	.....	fair.
S. St. Francis, N. 40° 00′, W. 134° 00′	.....	.....	54	12.2	67	e.	.....	.....	4	.....	8	.....	se.	0	0	mod.	ne.	cloudy.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, S. 15° 21′, W. 75° 19′*	30.03	764.7	69	20.6	90	ese.	.....	.....	2	.....	2	.....	calm	.....	.....	long	ssw.	clear.
H. M. S. Constance, S. 27° 40′, W. 89° 05′	30.24	768.1	73	22.8	85	s.	.....	.....	2	.....	1	s.	.....	.....	.....	1	se.	d. clouds
H. M. S. Espiegle, S. 45° 10′, E. 166° 44′	29.57	751.1	54	12.2	74	nw.	.....	.....	6–7	.....	7	.....	.....	.....	.....	0	var.	showery.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	29.95	760.7	65.3	18.5	84	w.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	showery.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.88	758.9	54	12.2	81	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Zealandia, Sydney N. S. W	29.94	760.5	72	22.2	71	e.	.....	.....	4	.....	2	.....	se.	0	0	.....	.....	clear.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.96	761.0	63	17.2	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.98	761.5	73	22.8	76	ne.	.....	.....	2	.....	7	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Tourmaline, Majunga, Madagascar	29.87	758.7	80	26.7	91	nw.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
S. Orealia, S. 41° 15′, E. 32° 57′*	29.92	760.0	.....	.....	.....	wsw.	.....	.....	6	.....	1	.....	wsw.	rain	rain	high	wsw.	clear.

International Chart I. February 27, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 28, 1884.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.97	761.2	72.7	22.6	62	n.			6		3			0	0		Roxiere.
Algiers			29.98	761.5	70.5	21.4	33	wsw.			4		0			inap.	inap.		Thève.
La Galle			29.95	760.7	66.9	19.4	72	ene.			1		4			0	0		Fonfrède.
Tunis			29.97	761.3	59.0	15.0	85	nw.			4		4			0	0		Delord.
Geriville					57.9	14.4	18	nw.			2		2			0	0		Forfert.
Laghouat			30.13	765.2	69.8	21.0	78	nw.			1		0			0	0		Abraham.
Biskra			30.10	764.6	65.1	18.4	69	calm			0		4			0	0		Gouzon.
Australian.																			
Adelaide, South Australia			29.72	754.9	68.7	20.4	70	ssw.	11	4.9			10 k			0	0	overcast	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.47	748.5	29.66	753.4	61.5	16.4	70	n.	15	6.7			8		nnw.	0	0	cloudy	Com. J. Shortt, R.N.
Melbourne, Victoria	29.62	752.3	29.71	754.6	68.4	20.2	55	ne?	10	4.5			4			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747.0	29.98	761.6	35.2	1.8	57	ne.			1		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.08	738.7	29.89	759.1	30.0	— 1.1	92	wsw.	6.9	3.1			10		s.	0.016	0.4		Dr. Wierzbiski
Eperies	28.93	734.9	29.84	758.0	34.7	1.5	72	n.			3		10 s			0	0		Julius Mikolik.
Gratz	28.67	728.3	29.97	761.1	39.4	4.1	47	sw.			1		3			0	0		Andreas Rospini.
Hermannstadt	28.37	720.6	29.83	757.7	38.8	3.8	72	nw.			4		10			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.58	725.8	29.97	761.3	33.4	0.8	77	e.			2		0			0	0	clear	The Staff.
Lemberg	28.78	731.0	29.80	756.8	34.9	1.6	94	e.			1		10			0.476	12.1		Dr. T. Stanecki.
Pola	29.83	757.7	29.95	760.6	50.0	10.0	50	se.			3		3			0	0		I. R. Hydrographic Office.
Szathmar	29.32	744.6	29.80	756.9	34.0	1.1	89	nw			5		10			0.417	10.6		Joseph Midlinsky, S. J
Szegedin	29.61	752.0	29.89	759.3	40.3	4.6	53	nw.			3		5			0	0		Karl Stancel.
Trieste	29.87	758.7	29.97	761.2	48.0	8.9	50	w.			1		8			0	0		Royal Academy.
Vienna	29.26	743.1	30.01	762.1	36.3	2.4	46	nw.			2		0			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.47	723.1	29.85	758.2	50.9	10.5	67	se.			1		2			0	0		
Brussels	29.77	756.1	29.98	761.4	33.4	0.8	85	ene.			2		10		e; ene	0	0		
Furnes	29.95	760.6	29.98	761.5	34.7	1.5	73	ene.			1		6			0	0		
Maeseyck	29.87	758.7	30.00	761.9	46.2	7.9	41	ne.			1		10			0	0		
British.																			
Aberdeen	30.04	763.0	30.14	765.5	36.4	2.4	61	se.	25	11.2			10			0.120	3.0	overcast	W. Boswell.
Bidston, Liverpool Obs'y			29.95	760.7	39.9	4.4	94	ese.	21	9.4			8					d. clouds	John Hartnup.
Bolton, Sharples	29.40	746.7	29.94	760.5	37.3	2.9	71	ese.	18	8.0			8					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.60	751.8	29.99	761.7	36.6	2.6	82	e.			2		10					snowing	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	30.01	762.2	30.04	763.0	78	25.6	65	e.			3		2					d. clouds	Corp'l O. McGregor, A.H.O
Cardington					37.0	2.8	76	e.			0.6		6					d. clouds	John McLaren.
Chatham, School M. E.	29.78	756.4	29.96	761.0	37.7	3.2	81	e.			1		8					gloomy	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.56	750.8	29.79	756.7	46.3	7.9	82	ese.			5		10					overcast	The Staff.
Fort Napier, Natal	27.64	702.0	29.95	760.7	75.0	23.9	61	ne.			1		7					d. clouds	Corp'l O. Stares, A.H.O.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.68	753.9	29.72	754.9	45	7.2	92	se.			3		8			0.02	0.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.74	755.4	29.84	757.9	57.0	13.9	88	w.			4		10					raining	Sgt. F. Norris, A. H.O.
Greenwich, Royal Obs'y	29.78	756.4	29.95	760.7	39.0	3.9	70	ene.			4		10					overcast	The Staff.
Guernsey	29.52	749.8	29.82	757.4	45.0	7.2	76	ese.			2		5					foggy	A. Collenette, F.R.M.S.
Kew, Observatory	29.92	760.0	29.95	760.7	39.4	4.1	61	ese.	14	6.3			10					misty	The Staff.
Leicester, Museum	29.71	754.6	29.97	761.2	39.6	4.2	60	e.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.80	756.9	29.88	758.9	60.2	15.7	72	nw.			3		6			0	0	d. clouds	Corpl. H. Keene, A. H. O.
Nassau, Bahamas	29.97	761.2	30.02	762.5	71.8	22.1	85	s.			2		4					d. clouds	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.72	754.9	29.95	760.7	38.0	3.3	76	e.			3		10					overcast	The Staff.
Plymouth	29.73	755.1	29.81	757.2	42.1	5.6	92	e.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.00	762.0	30.10	764.5	37.8	3.2	76						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.85	758.2	29.91	759.7	45.0	7.2	78	n.			1		10			blank	blank	raining	W. H. Lyne.
Sheffield	29.71	754.6	30.00	762.0	36.6	2.6	86	se.			2		10					overcast	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss					40.0	4.4	64	se.			2.0		8					d. clouds	Rev. O. H. Griffiths, F.M.S
Valencia, Observatory	29.68	753.9	29.70	754.4	51.5	10.8	83	se	16	7.2			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.55	750.6	29.94	760.5	60.1	15.6	42	w.	1.9	0.8		8 c	0	w.		0	0	hazy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.72	754.9	29.76	755.9	25.0	— 3.9		calm	0	0		10 cs	0			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.75	755.6	29.79	756.7	17	— 8.3	90	w.	2	0.9			10 s		w.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.70	754.4	29.76	755.9	22	— 5.6	96	n.	1	0.4			10 n		n.	0.01	0.3	light snow	G. A. Blair.
Cornwall, Ontario	29.18	741.2	29.38	746.2	25.7	— 3.5	87	e.			2		10 n			0.200	5.1	snowing	Jas. Smith, M. A.
Dalhousie, N. B	29.66	753.4	29.71	754.6	18.0	— 7.8		w.			1	0	7 k			0	0	overcast	H. A. Johnson.
Father Point, Quebec*	29.61	752.1	29.63	752.6	18	— 7.8	80	s.	2	0.9			10 k			inap	inap.	cloudy	J. McWilliams
Fort Garry, Manitoba*	29.56	750.8	30.57	776.5	—31	—35.0	100	nw.	2	0.9			10 n			0	0	fair	James Stewart.
Fredericton, N. B	29.67	753.6	29.74	755.4	25.0	— 3.9	87	w.	1	0.4			10 s			inap.	inap.	overcast	Prof. Thos. Harrison.
Grand Manan, N. B	29.66	753.4	29.71	754.6	31	— 0.6	92	calm	0	0			10 ks			0	0	cloudy	J. Chipman Seeley
Granton, Ontario	28.45	722.6	29.65	753.1	3.8	—15.7	95	nw.	12	5.4			10 n			0.300	7.6	snowing	Jas. Grant.
Halifax, N. S*	29.69	754.1	29.83	757.7	20	— 6.7	87	w.	1	0.4		8 k	hz			0	0	hazy	A. Allison.
Hamilton, Ontario	29.13	739.9	29.56	750.8	14.7	— 9.6	89	w.			1		10 n			0.200	5.1	snowing	Geo. Dickson, B. A.
Kingston, Ontario*	29.03	737.3	29.39	746.5	21	— 6.1	91	ne.	16	7.2			10 n		e.	0.63	16.0	heavy snow	A. P. Knight, M. A.
Little Glace Bay, N. S	29.60	751.8	29.65	753.1	24.0	— 4.4	100	nw.	4	1.8		5 c	0			0.400	10.2	fair	C. H. Rigby.
London, Ontario	28.68	728.5	29.67	753.6	6.3	—14.3	88	n.			3		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.96	710.2	30.39	771.9	22	— 5.6	96	nw.	10	4.5			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	28.29	718.6	30.53	775.4	—15	—26.1	100	nw.	9	4.0		0	2 ks		n.	0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.30	744.2	29.51	749.5	21	— 6.1	92	e.	5	2.2			10 s			0.07	1.8	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.23	742.4	29.47	748.5	13.9	—10.1	95	nnw.					10 s					snowing	A. McGill, M. A.
Parry Sound, Ontario*	28.88	733.5	29.65	753.1	— 1	—18.3	72	n.	17	7.6			10 n		n.	0.14	3.6	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.70	729.0	29.48	748.8	17.6	— 8.0	77	sw.			2		10 k			0.34	8.6	overcast	Wm. O'Connor, M.A.
Port Arthur	29.49	749.0	30.32	770.1	—18	—27.8	100	w.	2	0.9		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	28.81	731.8	29.50	750.8	10	—12.2	100	nw.	10	4.5			10 n			0.22	5.6	threatening	R. Morgan.
Port Stanley, Ontario	28.94	735.1	29.64	752.8	9	—12.8	83	w.	22	9.8		0	8 k		w.	0.08	2.0	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.89	708.4	30.47	773.9	— 8	—22.2		calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.25	742.9	29.62	752.3	23	— 5.0	88	calm	0	0		10 cs	0			0.05	1.3	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.14	740.1	29.64	752.8	1	—17.2	100	w	10	4.5			10 n			0.12	3.0	light snow	W. H. McIntyre.
St. Andrews, N. B	29.64	752.8	29.69	754.1	30	— 1.1	93	se.	1	0.4			10 n			0	0	cloudy	
St. John, N. B	29.57	751.1	29.72	754.9	29.0	— 1.7	93	calm	0	0			10 n			0	0	overcast	G. Hutchinson.
St. Pierre, N. F			29.41	747.0	26.6	— 3.0		n.			6								The Commandant.
Saugeen, Ontario*	28.93	734.8	29.72	754.9	0	—17.8	100	n	29	13.0			10 s			0.22	5.6	cloudy	
Stratford, Ontario	28.22	716.8	29.62	752.3	3.2	—16.0	92	nw.	9	4.0			10 s					snowing	W. McBride, M.A.
Sydney, C. B*	29.65	753.1	29.71	754.6	19	— 7.2	84	nw.	1	0.4		2 c	0			0.35	8.9	clear	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.09	738.9	29.50	749.3	13	—10.6	91	n.	18	8.0		0	8 ks		w.	0.19	4.8	clearing	[illegible] Observatory.
Woodstock, Ontario	28.47	723.1	29.63	752.6	6.9	—13.9	95	w.	21	9.4			10 n			0.125	3.2	snowing	Prof. N Wolverton, M.A.
Yarmouth, N. S*	29.68	753.9	29.75	755.6	32	0.0	92	se.	4	1.8		0	hz			0	0	hazy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.96	761 0	29.99	761.7	72.5	22.5	83	se.				0	0			0	0	clear	I. Garfelt.
Cape Town, The Castle	29.89	759.2			76.5	24.7	42	ne.				0	0			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.85	707.4			87	30.6	37									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.97	761.3	30.05	763.2	63.5	17.5	90	ne.			3	10						cloudy	Samuel Redolez.
Iquique	29.92	759.9	29.95	760.6	68.0	20.0	81	sw.			3							foggy	Rafael Moreno.
Niebla	29.57	751.0	29.67	753.7	58.3	14.6	85	w.			2		5		w.	0.591	15.0	raining	Federico Köhling.
Punta Caldera	29.92	759.9	30.00	762.1	67.5	19.7	84	ne.			1	6 cs		ne.				fair	Manuel Tobar.
Punta Corona	29.89	759.2	30.08	763 9				w.			2	0				0.110	2.8	clear	Francisco Alvarado.
Valparaiso	29.88	759.0	30.02	762.5	61.9	16.6	93	s.			1		10					cloudy	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.26	768.5	30.28	769.1	45.7	7.6	97.	ese.	15.7	7.0			10 n			0	0	covered	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.18	766.6	30.23	767.8	31.6	— 0.2	83	e.	36	16.			10						Oversergent Fischer.
Fanöe	30.16	766.1	30.18	766.6	29.7	— 1.3	94	ene.			6		10					snowing	Overloerer Lauridsen.
Godthaab, Greenland	29.73	755.2	29.78	756.3	1.6	—16.9	100	n.			4		*8						S. Kleinschmidt.
Ivigtut, Greenland	29.56	750.9	29.58	751.4	10.4	—12.0		nw.			4		0						
Jacobshavn, Greenland	29.76	756.0	29.81	757.2	—15.2	—26.2		calm			0		5						
Stykkisholm, Iceland	29.15	740.5	29.20	741.6	42.8	6.0	84	s.			8		10					raining	A. O. Thorlacius.
Thorshavn	29.98	761.4	30.00	762.0	42.8	6.0	72	sse.	20	9			10						Overloerer Bergh.
Upernavik, Greenland	29.77	756.1	29.82	757.3	—19.5	—28.6		calm			0		0						
Vestervig	30.14	765.6	30.23	767.9	30.4	— 0.9	71	ene.			7		7						Loerer Oesterhol.
Egyptian.																			
Cairo	30.00	762.1			65.3	18.5		ne.	2.9	1.3		0	6 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.13	740.0	29.79	756.6	52.9	11.6	78	se.			2		7 cn			0	0		M. Labroue, Director.
Alençon, Normal School	29.26	743.2	29.81	757.2	40.6	4.8	81	ne.			1		2 k		sw.	0.08	2.	slightly cl'dy	M. Nicot, Director.
Arras, Normal School	29.67	753.5			32.9	0.5	84	ene.			1		5		ene.	0	0	cloudy	M. Ungerer, Director.
Avignon, Normal School	29.74	755.5	29.82	757.5	56.1	13.4	60	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.28	743.6	29.85	758.1	42.8	6.0	52	ese.			1		5		ese.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.65	753.1	29.95	760.7	37.6	3.1	56	ene.			2		2		ne.	0	0	slightly cl'dy	M. Frère Eugène Marie.
Besançon, Normal School	28.89	733.8	29.81	757.1	46.4	8	59	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.39	746.4	29.65	753.0	55.2	12.9	71	ese.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.28	743.7	29.84	758.0	46.8	8.2	78	ene.			1		k		ene.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.55	750.5	29.79	756.7	54.7	12.6	72	se.			1		2		se.	0.039	1.0		M. de Kermarrée, Dir.
Caen, Normal School	29.77	756.1	29.84	758.0	43.9	6.6	91	se.			1		2			0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.56	750.7	29.88	759.0	42.4	5.8	78	ese.			1		8		sw.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.34	745.1	29.86	758.4	37.4	3.0	93	e.			1		8		e.	inap.	inap.	¾ covered	M. Noël, Director.
Clermont-Ferrand Obs'y	28 38	720.8	29.73	755.2	50.0	10.0	43	ne.			1	5 c;ck				0.024	0.6		M. Allnard, Director.
Cluny, Normal School	28 95	735.4	29.85	758.1	43.5	6.4	59	sw.			2		0			0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School.	29.02	737.1	29.91	759 7	35.8	2.1	64	ne.			1		2 k		ne.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27 33	694.1	29.91	759.6	43.2	6.2	65	sw.			1		5 kn			0	0		M. Jarach, Director.
Grésasque, du Rhone	28.69	728 6	29.84	757.9	57.0	13.9	47	se.			2		9		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.08	738.6	29.85	758.2	48.6	9.2	63	e			1		kn		se.	0	0		M. Ablard, Director.
Guéret, Normal School	28.15	714.9	29.70	754.4	49.1	9.5	69	ssw.			1	2 ck			se.	0	0	slightly cl'dy	M. Delorme, Dir.
Lescar, Normal School	29.08	738.6	29.63	752.6	66.2	19.0	61	sse.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.66	753.3	29.76	755.9	51.4	10.8	52	ese.			4	5 c	5	e	ese.	0	0	½ covered	L. T. Carré, Director.
Lyon, St. Genis-Laval	28.76	730.5	29.85	758.3	35.8	2.1	93	ne.			1			w.		0.020	0.5	fair	M. André, Director.
Mans, Normal School	29.49	749 0	29.82	757.5	42.1	5.6		ese.			1		5 k		nw.	0.055	1.4	cloudy	M. Richard, Director
Marseille, Observatory	29.53	750.1	29.80	756 9	58.8	14.9	46	se.			2		9		sw.	0	0		M. Stephan, Director.
Montlouis	24.52	622.9	29.37	745.9	42.4	5.8	58	w.	16.8	7.5			2	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.68	753.8	29.79	756.6	52.9	11.6	80	ne.			2		5	sse.		0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.10	739.1	29.90	759.5	37.8	3.2	66	wnw.			1	ck			e.	0	0		M. Hasse, Director.
Nantes, Observatory	29.60	751.7	29.76	755.8	49.8	9.8	55	ene.			1–2	c	6k;kn		wsw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.67	753.5	29.78	756.4	57.4	14.1	62	ne.	9.4	4.2			9		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.91	531.3			26.1	— 3.3		sw.			1		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.78	730 9	29.86	758.5	42.8	6	88	sw.			1		kn		sw.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	24.84	630.9			32.0	0.0	98	s.			2		8			0.185	4.7	foggy	M. Allnard.
Rochefort, Naval Obs'y	29.67	753 5	29.70	754.3	52.5	11.4	73	ene.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.53	750.1	29.75	755.7	50.7	10.4	58	se.			1					0	0		M. Brotier, Director.
Rodez, Normal School	27.61	701.2	29.74	755.5	50.9	10.5		e.			1		5			0	0	fair	M. Seger, Director.
Rouen, Normal School	29.88	758.9	29.93	760.1	41.0	5	81	e.			1		5	e.		0	0	cloudy	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.72	755.0	29.89	759.2	40.3	4.6	66	ene.			1		5		nw.	0	0	cloudy	M. Renou, Director.
Toulouse, Observatory	29.00	736 5	29.71	754.6	54 7	12.6	74	se.			4		5	w.		0	0	cloudy	M. Baillaud, Director.
Tours	29.61	752.2	29.80	756.9	45.0	7.2	71	nne.			1			wsw.		0	0		M. de Tastes.
Versailles, Observatory	29.37	746.1	29.87	758.6	38.8	3.8	60	e.			2		8			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.48	748.9	29.63	752.7	64.8	18.2	44	sw.	9.8	4.4		4 ck		wsw.	s.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.48	723.4	29.99	761.8	34.2	1.2	54	ne.			4		8	ne.		0	0		Prof. Jnedt.
Bamberg	29.11	739.5	29.96	760 9	35.6	2.0	70	ese.			2		7 k		e.	0	0		Prof. Dr. Hoh.
Berlin	29.89	759.3	30.05	763.2	32.7	0.4	57	ne.			1		10			0.004	0.1		Meteorological Institute
Breslau	29.46	748.3	29.99	761.8	28.4	— 2.0	90	nw.			3		10			0.047	1.2	snowing	Royal University Obs'y
Carlsruhe	29.46	748 3	29.93	760.3	38.5	3.6	54	e.			2		9	e.		0	0		Albert Senz.
Cassel	29.29	744.0	30.00	762.1	35.2	1.8	59	e.			1		4	e.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.60	751.8	29.97	761.3	39.2	4.0	53	ese.			2		6			0	0		Physical Society.
Friedrichshafen	28.48	723.5	29.95	760.7	37.0	2.8	70	sw.			3		4	ne.		0.319	8.1		Wilhelm, Chief Tel.
Hamburg	30.04	763.1	30.13	765.4	30.7	— 0.7	99	ese.			2		10					light snow	E. Preller.
Kiel	30.12	765.1	30.14	765.5	34.3	1.3	72	e.			2		10			0.035	0.9		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.65	753.2	30.09	764 3	31.6	— 0.2	89	ene.			2		9	ne.		0.012	0.3		H. Leppig, Asst.
Magdeburg	29.89	759 3	30.10	764.4	31.5	— 0.3	83	ne.			1		7			0.004	0.1		Weather Observatory.
Memel	30.23	707.9	30.28	769.1	30.0	— 1.1	84	ene.			5		0					clear	Issermann.
Munich	28 06	712.8	29.92	759 9	32.9	0.5	73	e.			2		3	ne.		0.004	0.1		Central Station.
Neufahrwasser	30.13	765.4	30.15	765.8	30.2	— 1.0	90	e.			3		10			0.094	2.4	snowing	A. Lothes.
Neustadt, Palatinate	29.39	746.6	29.92	759.9	38.7	3.7	58	ne.			1		10	ne.		0	0		Prof. Dicknether.
Stuttgart	28.95	735.4	29.88	758.9	36.0	2.2	61	e.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.09	764.2	30.11	764.9	34.5	1.4	96	ene.			2		10			0.220	5.6		Profs. Brandes & Reimer
Greek.																			
Athens	29.52	749.8	29.91	759.6	60.3	15.7		sw.			1.0	0	8			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.81	757.1	29.86	758.4	77.9	25.5	50	wsw.	27.0	12.1			6			0	0	d. clouds	
Deesa	29.34	745.1	29.80	757.0	87.1	30.6	25	w.	18.0	8.0			0			0	0	blue sky	
Bombay	29.84	757.0	29.88	759 0	79.6	26.4	72	nw.	17.0	7.6			0			0	0	blue sky	
Poona, Yarrowda	28.00	711.2	29.81	757.3	90.7	32.6	16	nw	17.0	7.6			0			0	0	blue sky	
Belgaum	27.34	694.3	29.84	758.0	82.8	28.2	41	wsw.	7.0	3.1			4	w.	e.	0	0	d. clouds	
Lahore	29.03	737 2	29.79	756.6	66.4	19.1	52	n.	6.0	2.7			7			0.08	2.0	d. clouds	
Roorkee	28.82	732 1	29.72	754.9	79.2	26.2	37	se.	2.0	0.9			8	w.		0.02	0.5	overcast	
Agra	29.16	740 6	29.71	754 7	87.2	30.7	24	w.	8.0	3.6			10		w.	0	0	overcast	
Nagpur	28.78	730.9	29.80	756.8	91.5	33.1	19	ssw.	5.0	2.2			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Jubbulpore	28.47	723.1	29.81	757.1	86.0	30.0	30	w.	4.0	1.8			3	nw.		0	0	d. clouds	
Lucknow	29.37	745.9	29.74	755.4	83.2	28.4	35	calm	0	0			10			0	0	overcast	
Allahabad	29.43	747.6	29.74	755.4	86.8	30.4	36	calm	0	0			7			0	0	d. clouds	
Patna	29.61	752.2	29.80	756.9	82.2	27.9	39	e.	3.5	1.6			0			0	0	blue sky	
Hazaribagh	27.81	706.3	29.80	757.0	81.3	27.4	31	calm	0	0			0			0	0	blue sky	
Cuttack	29.79	756.6	29.87	758.7	84.2	29.0	62	ssw.	5.0	2.2			4			0	0	d. clouds	
Calcutta, Alipore	29.84	757.8	29.86	758.4	79.8	26.6	53	sse.	6.5	2.9			0			0	0	blue sky	
Dhubri	29.75	755.6	29.87	758.6	72.4	22.4	70	ene.	12.7	5.7			0			0	0	blue sky	
Chittagong	29.84	758.0	29.93	760.3	74.4	23.6	83	wsw.	4.8	2.2			0			0	0	misty	
Sibsagar	29.60	751.7	29.94	760.5	68.5	20.3	84	ne.	2.0	0.9			10	w.	w.	0	0	overcast	
Jeypore	28.31	719.1	29.75	755.6	81.2	27.3	26	nw.	16.0	7.2			10	nw.		0	0	overcast	
Zanzibar	29.82	757.3	29.84	757.9	88.4	31.3	57	ene.	2.0	0.9			2	e		0	0	d. clouds	
Bellary	28.36	720.3			93.0	33.9	22	se.	4	1.8			2 c	0		0	0	d. clouds	
Trichinopoly	29.64	752.8			88.8	31.6	39	e.	0.2	0.1			0	0		0	0	blue sky	
ITALIAN.																			
Udine	29.55	750.5	29.96	761.1	44.6	7.0	55	e.	2.5	1.1			8			0.071	1.8		Prof. Giovanni Olodig.
Milan	29.41	747.0	29.94	760.5	47.7	8.7	61	e.	7.4	3.3			9	ese.		0	0		Prof. G. V. Schiapparelli
Padua	29.83	757.8	29.95	760.7	46.6	8.1	58	ne.	0.7	0.3			5	e.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.00	736.6	29.93	760.1	44.2	6.8	71	nw.	3.8	1.7			10			0	0		Prof. F. F. Denza.
Genoa	29.69	754.0	29.88	758.9	49.5	9.7	60	calm	0	0			10	s.		0	0		Prof. G. M. Garibaldi.
Pesaro	29.87	758.6	29.92	759.9	48.9	9.4	83	se.	11.9	5.3			0			0	0		Prof. Luigi Guidi.
Florence	29.62	752.4	29.88	759.0	50.0	10.0	46	ne.			2		5			0	0		Prof. Costantino Pittei.
Leghorn	29.74	755.4	29.81	757.2	53.1	11.7	77	s.	6.3	2.8			7			0	0		Prof. P. Monte.
Rome	29.69	754.0	29.86	758.5	55.0	12.8	42	s.	4.9	2.2			6			0	0		Prof. P. Tacchini.
Lecce	29.67	753.7	29.93	760.3	52.5	11.4	42	nne.	9.4	4.2			5	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.03	737.3	29.94	760.4	46.8	8.2	72	wnw.	1.8	0.8			10	w.		0.260	6.6		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.63	752.7	29.89	759.2	61.7	16.5	43	ne.	6.9	3.1			8	wnw.		0.012	0.3		Prof. G. Cacciatore
Syracuse	29.83	757.6	29.87	758.7	59.7	15.4	57	wnw.	7.4	3.3			8	wnw.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y	29.37	745.9	29.90	759.4	50.9	10.5	59	n.	1.8	0.8			10			0.173	4.4		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.24	768.2	30.27	768.8	25.4	— 3.7	91	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	30.23	767.8	30.27	768.8	24.0	— 4.4	69	sw.	4.9	2.2		0	0			0	0	clear	K. Ogawa.
Hakodate	30.26	768.6	30.27	768.9	29.7	— 1.3	77	nw.	6.6	2.9		0	1 s			0	0	clear	Y. Souma.
Hamamatsu	30.21	767.3	30.31	769.8	46.4	8.0	93	calm			0		10 n			0.228	5.8	raining	Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.24	768.2	30.26	768.6	44.9	7.2	90	n.	2.8	1.2			9ck;s		ne.	0.213	5.4	cloudy	Y. Okamoto.
Kagoshima	30.20	767.1	30.21	767.3	50.3	10.2	84	n.			2	0	0			0.012	0.3	clear	
Kanazawa	30.17	766.2	30.27	768.9	39.2	4.0	90	e.	5.4	2.4			10 s			0.060	1.5	covered	S. Endo.
Kioto	30.10	764.6	30.28	769.0	45.1	7.3	89	ne.	0.5	0.2			10 s			0.175	4.4	cloudy	M. Tojima.
Kochi	30.19	766.9	30.22	767.4	47.9	8.8	96	n.	4.8	2.1		0	6s;ck			0.285	7.2	fair	K. Kusunose.
Miasaka	30.19	766.7	30.21	767.4	55.0	12.6	83	nne.			1	0	4 s		ne.	0.087	2.2	fair	K. Masuzaki.
Miyako	30.10	766.8	30.30	769.6	27.9	— 2.3	82	wsw.	2.7	1.2		0	0			0	0	clear	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.03	762.7	30.24	768.1	48.1	8.9	89	ne.	0.6	0.3		0	0			0.070	1.8	clear	
Nemuro	30.23	767.8	30.28	769.1	20.5	— 6.4	68	calm	0	0		0	0			0	0	clear	A Shibuya.
Niigata	30.24	768.1	30.28	769.1	39.0	3.9	74	se.	5.1	2.2			10 s			0.025	0.6	covered	Satoo & Tomikawa.
Nobiru	30.30	769.6	30.32	770.0	36.8	2.7	90	s.	2.7	1.2			10 s			0	0	covered	Yoshino & Midzushina.
Numadzu	30.28	769.1	30.32	770.0	46.3	7.9	75	ene.			1		9s;ks			0.028	0.7	cloudy	T. Ohgi.
Osaka	30.24	768.0	30.25	768.4	43.9	6.6	93	ne.	13.4	6.0		0	7 n			0.160	4.1	light rain	H. Omura.
Sakai	30.23	767.7	30.24	768.1	44.9	7.2	93	ne.			2		10 ks		e.	0.209	5.3	cloudy	Yamawchi & Sakamoto.
Sapporo	30.16	766.1	30.23	767.8	25.9	— 3.4	80	se.	6.7	2.9		0	0			0	0	clear	S. Kimura.
Shimonoseki	30.11	764.7	30.25	768.4	46.0	7.8	93	ene.			1		10 ks			0.008	0.2	cloudy	S. Sakano
Wakayama	30.18	766.5	30.23	767.9	44.5	6.9	92	calm	0	0		0	0			0.385	9.8	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.69	754.1	29.88	758.9	80.6	27.0	66	ne.	11.0	4.9		1 cs	6 kuks		var.	0.77	19.6	fair	The Staff.
MEXICAN.																			
Leon	24.31	617.5	30.10	764.5	49.3	9.6	69	nnw.	0.9	0.4		0	0			0	0	clear	M. Leal & M. Pina
Mazatlan	29.69	754.1	29.95	760.8	66.5	19.2	71	e.	1.6	0.8		6 ck	0	sw.		0	0	hazy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	30.00	761.9	30.00	761.9	35.6	2.0		ene.			4					0	0		
Groningen	30.08	764.1	30.14	765.5	31.6	— 0.2		ese.			1					0	0		
Helder	30.06	763.4	30.06	763.4	32.7	0.4		e.			4					0	0		
Hellevoetsluis	30.01	762.3	30.01	762.3	45.3	7.4	64	e.			2					0	0		
Utrecht	29.98	761.6	30.04	763.0	35.2	1.8	62	ene.			2		6			0	0	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.86	758.4			75.6	24.2	94	w.	0	0			9			0.571	14.5		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.26	768.5	30.32	770.1	34.5	1.4	74	ssw.	4	2			5			0	0		
Brono	30.28	769.0	30.32	770.0	37.4	3.0	62	sw.			6		8			0	0		
Christiania	30.34	770.5	30.49	774.5	24.3	— 4.3	75	ne.	7	3			8					snowing	
Gjesvær	29.98	761.6	30.01	762.2	27.0	— 2.8		e.			2		10			0.008	0.2	foggy	
Lodingen	30.08	763.9	30.12	765.1	38.1	3.4	85	wsw.			5		9						
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.03	760.1	30.01	762.3	63.1	17.3	56	nw.	5.6	2.5			5	nw.		0.205	5.2		Capt. D. A. de Cunha.
Lisbon, Observatory	29.32	744.8	29.66	753.3	52.9	11.6	81	ssw.	12.5	5.6			10			0.429	10.9	raining	The Staff.
Ponta Delgada, Azores	29.97	761.3	30.04	763.1	60.1	15.6	59	nw.	9.4	4.2			4			0	0		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.																0	0	hazy	
San Salvador, Congo	30.05	763.2	30.09	764.2	69.8	21.0	80	ne.			4		8			0	0		
Serra da Estrella	28.01	712.1	29.84	757.8	85.5	29.7	52	w			1		6			0.319	8.1	snow & fog	
	24.87	631.8	29.64	752.9	37.8	3.2	76	ssw.	8.1	3.6			10						
RUSSIAN.																			
Akmolinski	28.84	732.6	30.06	763.5	— 6.3	—21.3	85	wnw.	16	7		0	0			0.008	0.2		Major K. Lazarew.
Archangel	30.01	762.2	30.03	762.7	18.3	— 7.6	81	w.	9	4			10			0	0		Capt. Sselliwerstow.
Ashuruda	30.22	767.5	30.12	765.1	52.0	11.1	70	nnw.	9	4		0	1 k			0	0		
Astrakhan	30.34	770.5	30.26	768.6	44.1	6.7	70	s.	7	3		0	8 ks			0	0		Capt. Wisganow.
Baku	30.27	768.8	30.22	767.6	48.0	8.9	73	calm	0	0		0	0			0	0		
Barnaul	29.50	749.2	30.04	762.9	15.1	— 9.4	90	sw.	13	6			10			0.197	5.0		Meteorological Office.
Bielosersk	29.95	760.7	30.46	773.6	19.4	— 7.0	44	sw.	7	3		2 cs	0			0	0		
Dorpat	30.24	768.0	30.50	774.8	18.3	— 7.6	75	ene.	7	3			10 n			0	0		Observatory.
Ekaterinburg	29.14	740.2	30.21	767.2	6.6	—14.1	61	w.	11	5		6 c	0			0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.47	748.6	29.93	760.3	40.3	4.6	92	sse.	9	4			10 s;n			0.012	0.3		
Kasan	30.20	767.1	30.51	774.9	— 1.5	—18.6	89	sw.	2	1			0			0	0		Observatory.
Kem	30.09	764.2	30.14	765.5	20.3	— 6.5	87	w.	18	8			9 ks			0	0		
Kertch	30.07	761.1	29.99	761.7	49.8	9.9	76	calm	0	0			10 n			0	0		Lagorio & Sastyrea.
Kieff	29.28	743.6	29.94	760.4	34.5	1.4	93	ne.	31	14			10 n			0.020	0.5		Observatory.
Koslov	29.80	756.9	30.35	770.9	14.7	— 9.6	85	ne.	13	6			10 s			0	0		
Lgov	29.61	752.1	30.24	768.0	22.6	— 5.2	89	ene.	31	14			10			0.031	0.8	snowing	R. I. Ssaweljew, Engin'r.
Libau	30.30	769.7	30.33	770.3	27.5	— 2.5	85	e.	16	7			10			0	0		[illegible]
Lugan	29.82	757.4	30.02	762.6	45.9	7.7	53	ese.	9	4			10			0	0		Meteorological Obs'y.
Moscow	29.97	761.3	30.51	774.9	10.4	—12.0	67	s.	4	2		0	4 ks			0	0		Meteorological Obs'y.
Nertschinsk	27.98	710.6	30.54	775.8	— 0.2	—17.9	52	nw.	2	1			0			0	0		
Nikolaiev	29.84	757.9	29.91	759.7	46.2	7.9	73	s.	31	14		0	6 ku			0.417	10.6		Capt. Kurdakow.

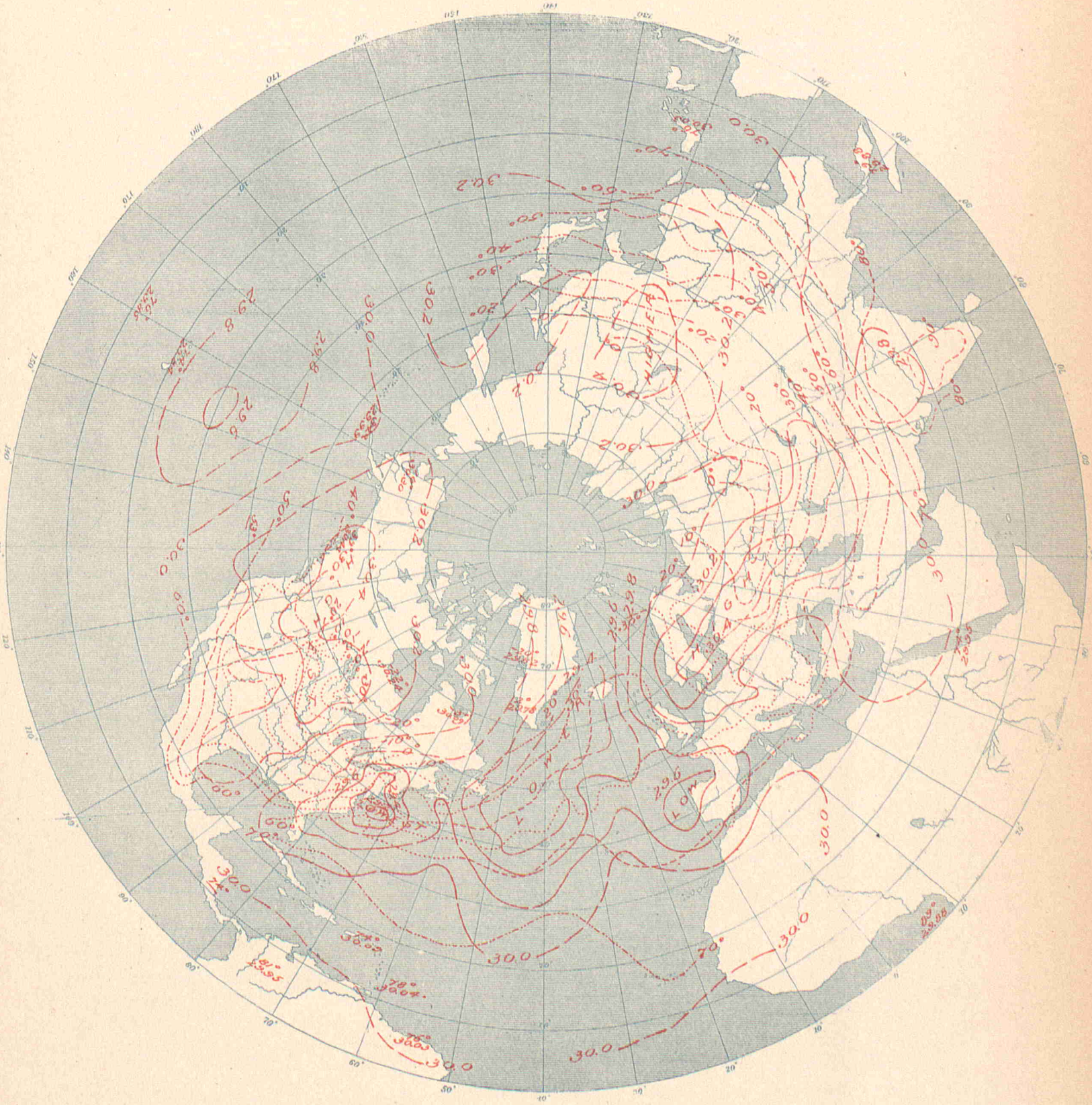
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaiewsk-on-the-Amoor																			Iwanow.
Pekin, China	30.25	768.3	30.39	771.9	41.7	5.4	24	nw.	2.2	1.0			9 n						Siang.
Petro-Alexandrovsk	29.94	760.5	30.31	769.8	43.7	6.5	44	se.	1.1	0.5			0						Walter.
Petrozavodsk	30.14	765.6	30.35	771.0	17.6	— 8.0	68	nw.	27	12		0	1 ks			0	0		Dr. Bergmann.
Pinsk	29.51	749.5	30.02	762.6	34.0	1.1	89	ene.	22	10			10 s			0.189	4.8		
Poti	30.03	762.7	30.06	763.5	57.9	14.4	87	e.	4	2			0			0	0		
St. Petersburg	30.50	774.7	30.52	775.3	10.8	—11.8	71	ene.	2	1		0	0			0	0		Central Physical Obs'y.
Samarkand	27.71	703.8	30.27	768.9	38.5	3.6	67	calm	0	0		0	0						Dresch.
Semipalatinsk	29.37	746.1	30.08	764.1	16.7	— 8.5	88	sw.	11	5			10			0	0		Major Lasarew
Sevastopol	29.77	756.2	29.99	761.7	48.9	9.4	65	ssw.	11	5		5 cs	0			0.602	15.3		
Staroi Bykhov	29.65	753.0	30.23	767.9	32.0	0.0	67	ene.	18	8		0	4 k			0	0		Carl Hagen.
Tashkend, Laboratory	28.60	726.3	30.36	771.1	33.6	0.9	74	calm	0	0			0						Terch, A. M
Tiflis	28.69	728.6	30.13	765.3	49.3	9.6	33	nw.	9	4		0	0			0	0		Physical Observatory.
Vernoe	27.63	701.7	30.28	769.1	26.6	— 3.0	62	calm	0	0		0	0						Sariono.
Viatka	29.63	752.6	30.33	770.4	5.7	—14.6	62	wsw.	9	4			9			0	0		
Vladivostock	30.12	765.0	30.19	766.7	32.5	0.3	97	se.	13	6			10 k			0	0		
Warsaw	29.51	749.5	29.95	760.6	35.1	1.7	93	e.	18	8			10 n					heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.95	760.8	30.28	769.0	— 3.5	—19.7	75	w.	2	1			2			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.83	757.7	30.37	771.4	10.0	—12.2	51	nne.	7.4	3.3		2 cs	0			0	0	clear	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.63	752.5	29.74	755.3	55.8	13.2	72	ene.				0	0			0	0	misty	B.J.Elin.
Bilbao, Met. Obs'y	29.54	750.4	29.60	751.9	70.5	21.4	44	sw.	2.5	1.1		3	2	w.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.72	678.7	29.66	753.3	52.7	11.5	59	s.	3.8	1.7			9			0.098	2.5	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.47	697.7	29.69	754.1	53.1	11.7	66	s.	18.8	8.4			10			0.051	1.3	covered	The Staff.
Murcia, Met. Obs'y	29.61	752.2	29.76	756.0	67.6	19.8	67	sse.	2.7	1.2		5	3	e.		0.012	0.3	misty	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.66	727.9	29.55	750.6	52.7	11.5	82	sw.	6.3	2.8			10			0.484	12.3	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.94	760.4	30.00	762.1	60.7	15.9	91	se.	0.7	0.3		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.97	761.3	30.03	762.8	75.5	24.2	71	ese.	15.4	6.9		0	8			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	29.70	754.5	29.80	757.0	58.5	14.7	82	s.	18.3	8.2			10		sw.	0.754	19.2	raining	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.00	762.0	30.09	764.3	74.1	23.4	82					5 s	5 kn	n.	e.	0.063	1.6	cloudy	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	30.16	766.1	30.20	767.1	13.6	—10.2	100	s.			2		6			0	0		
Umea	30.28	769.2	30.34	770.5	27.7	— 2.4	83	sw.			2		0			0	0		
Hernosand	30.30	769.6	30.35	770.9	36.7	2.6	55	calm			0		0			0	0		
Stockholm	30.30	769.5	30.47	774.0	27.3	— 2.6	70	ne.			2		10			0	0		
Wisby	30.26	768.6	30.32	770.1	28.8	— 1.8	84	e.			4		10			0	0		
Sub-series.																			
Upsala	30.39	771.9	30.48	774.1	24.1	— 4.4	81	nw.	0	0			1			0	0		H.H.Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			29.96	760.9	45.1	7.3	77	nnw.	9	4.0			10		nnw.	0.630	16.0	raining	The Observatory.
Valona			29.98	761.6	56.8	13.8		nw.			2		5			0	0	½ covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.09	764.2	63.0	17.2	68	ne.			2	c	8 n		sw.	0	0		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.36	745.7	29.45	748.0	36	2.2	75	s.	1	0.4			10 n			0.06	1.5	light snow	J. O. Barnes.
Alpena, Michigan	29.13	739.9	29.84	757.9	— 6.8	—21.6	64	nw.	11	4.9		0	4 s		nw.	0.17	4.3	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.99	634.7	30.09	764.3	18.4	— 7.6	69	n.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.42	696.5	30.46	773.7	23.5	— 4.7	93	calm	0	0			10 s			0.04	1.0	cloudy	F. Newman.
Atlanta, Georgia	28.63	727.2	29.85	758.2	30.0	— 1.1	70	nw.	26	11.6			10 s		nw.	0.22	5.6	cloudy	S. W. Beall.
Atlantic City, New Jersey	29.16	740.7	29.18	741.2	39.0	3.9	89	ne.	25	11.2			10 n		ne.	1.25	31.7	light rain	B.A.Blundon.
Augusta, Georgia	29.54	750.3	29.74	755.4	45.5	7.5	72	w.	10	4.5		1 ck	0	w.		0.18	4.6	clear	W.J.Evans.
Baltimore, Maryland	29.29	744.0	29.34	745.2	40	4.4	82	n.	8	3.6			10 n			0.75	19.0	light rain	Geo. W. Felger.
Barnegat City, New Jersey	29.20	741.7	29.22	742.2	39.0	3.9	100	e.	35	15.6			10n;fg		e.	0.17	4.3	light rain	F.L.Johnson.
Bennett, Fort, Dakota	28.83	732.3	30.56	776.2	— 6.0	—21.1	91	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.50	698.5	30.50	774.7	28.0	— 2.2	88	calm	0	0		0	9 s		nw.	blank	blank	cloudy	Thomas Morgan.
Bismarck, Dakota	28.53	724.6	30.51	774.9	—13.0	—25.0	90	calm	0	0		0	0			inap.	inap.	clear	B. O. Lenoir.
Block Island, Rhode Island	29.48	748.8	29.51	749.5	35.0	1.7	89	se.	14	6.3			10 n			0.01	0.3	light snow	J. T. Elker.
Boise City, Idaho	27.42	696.5	30.38	771.6	32.0	0.0	81	sw.	2	0.9		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.43	747.5	29.59	751.6	31.0	— 0.6	94	e.	10	4.5			10 n		ne.	0.03	0.8	light snow	O. B. Cole.
Brownsville, Texas	30.22	767.6	30.28	769.1	44.0	6.7	51	n.	10	4.5		5 ck	0	s.		0	0	fair	John McGlone.
Buffalo, New York	28.71	729.2	29.50	749.3	23.2	— 4.9	94	w.	12	5.4			10 n			0.30	7.6	light snow	Wm. Finn.
Buford, Fort, Dakota	28.29	718.6	30.50	774.7	—10.1	—23.4	78	ne.	1	0.4		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.71	754.6	30.13	765.3	19.0	— 7.2	70	nw	18	8.0		0	4 ks		nw.	0.41	10.4	fair	W. H. Ray.
Canby, Fort, Washington Ter	30.03	762.7	30.23	767.8	44.5	6.9	82	n.	7	3.1		0	0			0	0	clear	J.H.Young.
Cape Henry, Virginia	29.32	744.7	29.34	745.2	53.0	11.7	100	w.	16	7.2			10 n		w.	0.08	2.0	light rain	A. K. Alderson.
Cape May, New Jersey	29.12	739.6	29.16	740.7	43.7	6.5	95	se	13	5.8			10 s		w.	1.27	32.3	cloudy	W.E.Smith.
Cape Mendocino, California	29.54	750.3	30.24	768.1	44.5	6.9	86	ne.			1	0	fg.			0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	29.78	756.4	29.80	756.9	60.8	16.0	96	sw.	23	10.3			10 s		w.	0	0	threatening	G. W. Davis.
Charleston, S. Carolina	29.56	750.8	29.62	752.3	55.2	12.9	88	w.	12	5.4			10 s		w.	0.07	1.8	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.72	729.5	29.61	752.1	42.3	5.7	81	w.	6	2.7		0	0			0.33	8.4	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.09	738.9	29.95	760.7	25.5	— 3.6	64	nw.	17	7.6			10 ks		nw.	0.50	12.7	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.91	607.3	30.18	766.6	23.8	— 4.6	84	n.	14	6.3			10 n			inap.	inap.	light snow	E. McGovern.
Chicago, Illinois	29.28	743.7	30.03	762.7	1.6	—16.9	54	nw.	8	3.6		0	1 s			0.05	1.3	clear	Wm. Norrington.
Chincoteague, Virginia	29.20	741.7	29.22	742.2	49.8	9.9	98	sw.	8	3.6			10 ks		sw.	0.39	9.9	cloudy	C. F. Dickens
Cincinnati, Ohio	29.20	741.7	29.89	759.2	19.2	— 7.1	84	n.	10	4.5		5 ck	5 s	nw.	n.	0.17	4.3	cloudy	L. Dunne.
Cleveland, Ohio	28.94	735.1	29.73	755.1	11.0	—11.7	89	nw.	20	8.9			10 n		nw.	0.32	8.1	heavy snow	W. Line.
Columbus, Ohio	28.83	732.3	29.73	755.1	14	—10.0	70	w	16	7.2			0	2 s	w.	0.23	5.8	clear	F.T. Williams
Concho, Fort, Texas	28.28	718.3	30.30	769.6	24.5	— 4.2	92	sw.	2	0.9		0	0			0	0	clear	C. E. King.
Custer, Fort, Montana	27.04	686.8	30.40	772.1	19	— 7.2	87	nw.	3	1.3			10 s			0.36	9.1	cloudy	W.J.Daily.
Davenport, Iowa	29.45	748.0	30.15	765.8	5	—15.0	63	ne.	12	5.4			10 n		ne.	inap.	inap.	light snow	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	30.16	766.1	27.2	— 2.7	68	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.59	726.2	30.41	772.4	30.4	— 0.9	94	sw.	4	1.8		0	0			0	0	clear	H.S.Blandford.
Deadwood, Dakota	25.45	646.4	30.37	771.4	5.8	—14.6	73	calm	0	0		0	0			0	0	clear	G.Kingsbury.
Delaware Breakwater, Del.	29.16	740.7	29.18	741.2	41.4	5.2	100	se.	12	5.4		0	9 ks		sw.	0.06	1.5	cloudy	G.A.Martin.
Denver, Colorado	24.66	626.4	30.18	766.6	30.3	— 0.9	53	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.37	746.0	30.34	770.6	— 5	—20.6	62	n.	8	3.6		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.05	737.9	29.80	756.9	8.0	—14.4	76	nw.	12	5.4			10 s		nw.	0.08	2.0	cloudy	N.B.Conger.
Dodge City, Kansas	27.52	699.0	30.26	768.6	16	— 8.9	76	ne.	6	2.7		0	0			0	0	clear	J.E.Lanouette.
Dubuque, Iowa	29.44	747.8	30.20	767.1	1	—17.2	30	nw.	6	2.7		0	2 s			0.02	0.5	clear	J. Harvey Smith
Duluth, Minnesota	29.52	749.8	30.33	770.4	—15.0	—26.1	65	nw.	13	5.8		0	0			0.07	1.8	clear	E.R.Brace.
Eastport, Maine	29.62	752.3	29.69	754.1	31.5	— 0.3	78	calm	0	0			10 s			0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.22	693.9	30.22	767.6	25	— 3.9	90	calm	0	0			10 s		w.	inap.	inap.	cloudy	J. C. Rickli.
El Paso, Texas	26.27	667.2	30.15	765.8	33.0	0.6	72	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.84	732.5	29.62	752.3	15.0	— 9.4	83	w.	20	8.9			10 n			0.55	14.0	light snow	C. A. Shaw.
Escanaba, Michigan	29.33	745.0	30.05	763.3	—13.9	—25.5	78	n.	18	8.0		7ck;cs	0			0	0	fair	L.M.Pindell.
Fort Smith, Arkansas	29.77	756.1	30.27	768.8	20.0	— 6.7	70	nw.	4	1.8		0	0			0.18	4.6	clear	J. B. Campbell.
Galveston, Texas	30.22	767.6	30.26	768.6	38.0	3.3	54	n.	22	9.8		0	6 s		n.	0.05	1.3	fair	E. O'O. Macinerney
Grand Haven, Michigan	29.24	742.7	29.95	760.7	2.0	—16.7	85	n.	5	2.2			10 s		nw.	0.05	1.3	cloudy	Joseph E. Mueller
Grant, Fort, Arizona	25.18	639.6	30.04	763.0	30.2	2.3	48	ne.	4	1.8		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.37	746.0	29.38	746.2	65.0	18.3	78	sw.	28	12.5			10 k		sw.	0	0	cloudy	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
United States.—Cont'd.																			
Helena, Montana	26.07	662.2	30.42	772.7	34	1.1	88	w.	2	0.9			10 n			0.11	2.8	light snow	S. W. Morrison.
Huron, Dakota	29.01	736.8	30.53	775.4	−12.3	−24.6	70	nw.	8	3.6		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.07	738.4	29.92	760.0	16.3	− 8.7	78	nw.	8	3.6			10 n		nw.	0.16	4.1	light snow.	C. F. R. Wappenhans.
Indianola, Texas	30.26	768.6	30.29	769.4	40.2	4.6	50	n.	20	8.9			10 s			inap.	inap.	cloudy	I. A. Reed.
Jacksonville Florida	29.64	752.8	29.69	754.1	67.0	19.4	81	sw.	16	7.2		2 cs	7 s		sw.	inap.	inap.	cloudy	J. W. Smith.
Keokuk, Iowa	29.50	749.3	30.20	767.1	3.0	−16.1	72	nw.	14	6.3			10 k		nw.	inap.	inap.	cloudy	F. Z. Gosewisch.
Key West, Florida	29.95	760.7	29.97	761.2	72	22.2	59	sw.	17	7.6		0	4 k		sw.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	29.32	744.7	29.34	745.2	62.0	16.7	74	sw.	35	15.6			10 k		sw.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	28.80	731.5	29.88	758.9	25	− 3.9	90	nw.	8	3.6		0	6 s		nw.	0.85	21.6	fair	J. A. Cody.
La Crosse, Wisconsin	29.39	746.5	30.23	767.8	− 9	−22.8	78	n.	16	7.2		0	0			0.01	0.3	clear	S. C. Emery.
Leavenworth, Kansas	29.44	747.8	30.38	771.6	2.2	−16.6	87	n.	14	6.3		0	0			inap.	inap.	clear	T. S. Outram.
Lewiston, Idaho	29.62	752.3	30.49	774.4	29.5	− 1.4	82	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.87	758.7	30.20	767.1	24.0	− 4.4	73	nw.	8	3.6		0	0			0.81	20.6	clear	W. U. Simons.
Los Angeles, California	29.71	754.6	30.11	764.8	54.2	12.3	36	ne.	12	5.4		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.32	744.7	29.91	759.7	21.5	− 5.8	78	nw.	20	8.9			10 s		nw.	0.17	4.3	cloudy	L. M. Dey.
Lynchburg, Virginia	28.72	729.5	29.44	747.8	41.0	5.0	65	nw.	9	4.0		0	1 k		nw.	0.41	10.4	clear	Jno. Healy.
Mackinaw City, Michigan	29.25	742.9	29.95	760.7	−14.6	−25.9	90	nw.	9	4.0		0	0			0.19	4.8	clear	D. B. Notson.
Macon, Fort, North Carolina	29.42	747.3	29.43	747.5	63.0	17.2	87	sw.	53	19.2			10 n		sw.	0.01	0.3	light rain	William Daly.
Maginnis, Fort, Montana	25.68	652.3	30.44	773.2	18.3	− 7.6	70	nw.	36	16.1			10 k		nw.	0.18	4.6	cloudy	F. Burke.
Marquette, Michigan	29.34	745.2	30.12	765.0	−11.5	−24.2	49	n.	16	7.2			10 s			0.05	1.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.78	756.4	30.13	765.3	24.8	− 4.0	69	w	8	3.6		0	8 s		w.	1.04	26.4	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.26	743.2	30.06	763.5	− 8.7	−22.6	74	nw.	14	6.3		0	0			0.15	3.8	clear	S. W. Rhode.
Mobile, Alabama	29.96	761.0	30.00	762.0	36.3	2.4	66	n.	18	8.0			10 s		n.	0.16	4.1	cloudy	H. U. Jones.
Montgomery, Alabama	29.75	755.6	29.99	761.7	31.5	− 0.3	78	nw.	18	8.0			10 s		nw.	0.11	2.8	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.38	746.2	30.48	774.2	−30	−34.4	100	n.	5	2.2		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.19	589.0	29.81	757.2	15.0	− 9.4	100	se.	25	11.2			fg.		se.	0.10	2.5	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.41	747.0	30.02	762.5	23.4	− 4.8	85	nw.	16	7.2			10 n		nw.	0.92	23.4	light snow	L. N. Jesunofsky.
New Haven, Connecticut	29.31	744.5	29.43	747.5	33	0.6	98	ne.	10	4.5			10 n			0.08	2.0	heavy snow	J. H. Sherman.
New London, Connecticut	29.43	747.5	29.48	748.8	33.4	0.8	100	e.	12	5.4			10 n		ne.	inap.	inap.	heavy snow	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.10	764.5	38.8	3.8	50	n.	21	9.4		2 c	5 ks		n.	0.10	2.5	fair	M. Herman.
New York, New York	29.18	741.2	29.36	745.7	33.5	0.8	100	ne.	5	2.2			10 n			0.60	15.2	heavy snow.	H. J. Penrod.
Norfolk, Virginia	29.35	745.5	29.38	746.2	53.8	12.1	100	w.	16	7.2			10 n		w.	0.32	8.1	light rain	Wm. Davis.
North Platte, Nebraska	27.24	691.9	30.34	770.6	11.4	−11.4	72	ne.	6	2.7			10 s			c	0	cloudy	J. J. Mc Lean.
Olympia, Washington Ter	30.26	768.6	30.30	769.6	32.0	0.0	88	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.17	740.9	30.44	773.2	− 6.0	−21.1	62	nw.	2	0.9		0	0			inap.	inap.	clear	A. Pollak
Oswego, New York	29.03	737.3	29.38	746.2	35.5	1.9	73	s.	7	3.1			10 n			0.15	3.8	light snow	J. G. Linsley.
Palestine, Texas	29.69	754.1	30.27	768.8	29.1	− 1.6	55	n.	11	4.9		2 cs	0	w.		0.07	1.8	clear	P. T. Jenkins.
Pensacola, Florida	29.93	760.2	29.96	761.0	38.8	3.8	71	nw.	20	8.9			10 s		nw.	0.03	0.8	cloudy	M. McGauran.
Philadelphia, Pa.	29.23	742.4	29.34	745.2	37.5	3.1	100	ne.	7	3.1			10 n		ne.	0.70	17.8	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.46	443.5	30.18	766.6	− 7.0	−21.7	74	ne.	28	12.5		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	28.76	730.5	29.62	752.3	22.7	− 5.2	100	nw.	15	6.7			10 n		nw.	0.18	4.6	light snow	O. D. Stewart
Poplar River, Montana					−22.3	−30.3	76	e			1		10 s			0	0	cloudy	G. A. Oarden.
Port Huron, Michigan	29.01	736.8	29.74	755.4	− 0.5	−18.1	83	nw.	15	6.7			10 c			0.04	1.0	cloudy	M. H. Perry
Portland, Maine	29.58	751.3	29.64	752.8	34.5	1.4	83	sw	5	2.2			10 n		sw.	0.02	0.5	light snow	W. W. Eichelberger.
Portland, Oregon	30.18	766.6	30.26	768.6	44.3	6.8	82	n.	4	1.8		0	0			0	0	clear	M. L. Hearne.
Prescott, Arizona	24.79	629.7	30.15	765.8	24.8	− 4.0	88	sw.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	29.56	750.8	29.59	751.6	35.2	1.8	94	se.	9	4.0			10 n			inap.	inap.	light snow	C. N. Kitchel.
Red Bluff, California	29.83	757.7	30.20	767.1	45	7.2	68	n.	6	2.7		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	30.13	765.3	30.38	771.6	46.5	8.1	44	n	12	5.4		0	4 s		n	0	0	fair	L. G. Schultz.
Rochester, N. Y.	28.72	729.5	29.43	747.5	28	− 2.2	100	w.	17	7.6			10 n			0.13	3.3	light snow	E. W. McGann.
Roseburg, Oregon	29.68	753.9	30.25	768.3	37.1	2.8	86	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	30.09	764.3	30.16	766.1	47.5	8.6	93	ne.	3	1.3		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.50	749.3	30.16	766.1	7.1	−13.8	76	nw.	22	9.8		hz.	6 k		nw.	0.01	0.3	fair	J. H. Weber.
St. Michael, Fort, Alaska	30.26	768.6	30.30	769.6	10	−12.2	100	calm	0	0			10 s			0	0	cloudy	Fred. H. Clarke
St. Paul, Minnesota	29.38	746.2	30.32	770.1	−11.6	−24.2	82	nw.	11	4.9		2 cs	0			0.02	0.5	clear	P. F. Lyons.
St. Vincent, Minnesota	29.57	751.1	30.54	775.7	−29	−33.9	80	nw	4	1.8		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.76	654.3	30.32	770.1	33.7	0.9	68	calm	0	0			10 s			0	0	cloudy	J. Craig.
San Diego, California	30.01	762.2	30.08	764.0	52.3	11.3	41	ne.	9	4.0		0	0			0	0	clear	F. R. Day.
Sandusky, Ohio	29.08	738.6	29.80	756.9	9	−12.8	76	nw.	25	11.2			10 s		nw	0.17	4.3	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.32	744.7	29.35	745.5	34.3	1.3	100	e.	32	14.3			10 n		e.	0.54	13.7	heavy snow	V. P. Chappel.
Sanford, Florida	29.74	755.4	29.80	756.9	65.0	18.3	87	sw.	13	5.8		3 c	0	w.		0	0	clear	J. B. Marbury
San Francisco, California	30.10	764.5	30.18	766.6	48.9	9.4	93	w.	8	3.6		0	fg.		w.	0	0	fair	N. Goron.
Savannah, Georgia	29.58	751.3	29.67	753.6	54.5	12.5	77	w.	11	4.9			10 n		w.	0.03	0.8	light rain	R. M. Geddings.
Shaw, Fort, Montana	26.64	676.6	30.50	774.7	35	1.7	82	w.	4	1.8			10 s			0.05	1.3	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.00	762.0	30.18	766.6	28.5	− 1.9	58	n.	7	3.1		2 c	0	nw.		0.22	5.6	clear	E. N. Meekins.
Sitka, Alaska	30.36	771.1	30.44	773.2	38.5	3.6	92	calm	0	0		0	0			0	0	clear	F. W. Fickett.
Smithville North Carolina	29.49	749.0	29.53	750.0	56.6	13.7	91	w.	15	6.7			10 n		w.	0.04	1.0	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.35	720.1	30.48	774.2	27.6	− 2.4	82	calm	0	0			10 s			0	0	cloudy	D. Moore.
Springfield, Illinois	29.39	746.5	30.12	765.0	10.0	−12.2	82	nw.	16	7.2			10 s		nw.	inap.	inap.	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.06	687.3	30.19	766.8	30.0	− 1.1	80	calm	0	0		0	0			0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter	30.16	766.1			46.4	8.0	73	e.	30	13.4		0	0			0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.30	693.4	30.13	765.3	29	− 1.7	74	s.			1	0	0			0	0	clear	R. O. Lord.
Toledo, Ohio	29.09	738.9	29.83	757.7	3.5	−15.8	85	nw.	8	3.6			10 s		nw.	0.09	2.3	cloudy	A. Buell.
Unalaska, Alaska	29.97	761.2	29.99	761.7	34.0	1.1	79	n.	20	8.9			10 s		n.	0	0	cloudy	Samuel Applegate
Vicksburg, Mississippi	29.89	759.2	30.16	766.1	32	0.0	60	nw.	16	7.2		0	4 s		n.	0.31	7.9	fair	C. Dill.
Washington, D. C.	29.23	742.4	29.35	745.5	38.0	3.3	89	nw.	6	2.7			10 ks		nw.	0.84	21.3	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.02	660.9	30.14	765.5	16.5	− 8.6	91	w.	4	1.8		0	2 s		w	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	29.44	747.8	29.50	749.3	57.0	13.9	80	w.	16	7.2			10 n		w.	0.03	0.8	light rain	L. H. Albrecht.
Yankton, Dakota	29.09	738.9	30.51	774.9	− 9.7	−23.2	74	nw.	11	4.9		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.93	760.2	30.08	764.0	51.4	10.8	45	ne.	1	0.4		1 c	0	nw.		0	0	clear	W. S Delano.
Sub-series.																			
Behring Island, Kamchatka.	30.19	766.8	30.21	767.3	27.3	− 2.6	76	e.	7	3.1		0	6 k			0.02	0.5	fair	George Cherunick.
Bluefields, Nicaragua, C. A.					74	23.3		nw.			1		10 n		n.	0.18	4.6	drizzling	W. H. Jackson.
Bogota, U. S. C.	22.03	559.5			55.4	13.0	87	calm	0	0			9 k		w.	0.079	2.0	covered	Joaquin Gomez.
Chimo, Fort, Ungava	29.93	760.2	30.09	764.3	− 5	−20.6	100	calm	0	0			10 s		nw.	0	0	cloudy	L. M. Turner.
Kingston, Jamaica, W. I.			30.05	763.3	67.0	19.4	88	n.	2	0.9		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	76	24.4	86	ne.			2	4 c	5 k	e.		0.060	1.5		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.95	760.7	81	27.2	85	calm			0	6 ck	4 ks	calm	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74.4	23.6	88	e.			1	ck	0	e.		0	0	clear	Earl Flint.
York Factory, B. A.	30.17	766.3	30.24	768.1	−22.0	−30.0		sw.	14	6.3		2 c	2 s	sw.	sw.	0	0	fair	Fortescue & Wood
U. S. of Colombia. *(Sub series).*																			
Colon	29.88	759.0	29.89	759.2	78.1	25.6	82	n.	9.4	4.2		0	4 k		n.	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.91	759.6	29.97	761.2	70.2	21.2	92	n.			4	0	1 k		n.	0	0	clear	Antonio Fabra.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
S. S. Alvo, Kingston, Jamaica, W. I*	30.10	764 5	77	25.0		e.			3		4		calm	0	0			fine.
S. S. Alleghany, N. 41° 04′, W. 72° 20′ †	29.34	745.2	36	2.2		ese.			4		10		n.	0	0	long	s.	stormy.
S. S. Ailsa, N 24° 56′, W. 74° 24′			74	23.3	90	s.			3		2		ssw.	0	0	sm'h		fine.
Schr. Arthur Burton, Fernandina, Fla †	29.67	753.6				ssw.			3		5		ssw.	0	0			threatening.
S. S. Alps, N. 37° 45, W. 73° 52′ *†	29.10	739.1	67?	19.4?		s.			6		10		s.	rain	rain		s.	raining.
S. S. Anchoria, N. 46° 43′, W. 41° 20′						s.			4		fg			6 h'r	6 h'r	sli't	ne.	foggy.
S. S. Circassian, off Portland, Me.	29.57	751.1	37	2.8	100	sw.			4		10		sw.			3	w.	snowing.
S. S. Canada, (Fr) N. 49° 36′, W. 20° 26′	29.61	752.0	46.4	8.		n.			2		8.			0	0	h'vy		covered.
S. S. Chalmette, Algiers, La			38	3.3		nnw.			6		10		nnw.	1 h'r	1 h'r			cloudy
S. E. J. Spicer, N. 40° 40′, W. 73° 25′			41	5.0	91	e.			2–7		7		nw;e.	6 h'r	6 h'r	mod.	se.	raining.
S. S. Frisia, N. 42° 32′, W. 45° 00′	29.34	745.2	54	12.2		w.			6		6		w.	2 h'r	2 h'r	long	w.	fair.
S. S. Grecian, Portland, Me	29.67	753.6	39	3.9	82	ssw.			1		10			½ h'r	½ h'r			hazy.
Bg. George, N. 32° 13′. W. 67° 48′ *†	29.98	761.5				ssw.			4		8		sw.	0	0	mod.	nw.	hazy.
Bk. Idaho, N. 28° 44′, W. 79° 40′ *†	29.82	757.4				sw.			6		0			0	0	r'gh.	sw.	clear.
S. S. Iowa, N. 49° 05′. W. 23° 21′ †	29.70	754.4	52	11.1		nw.			4		5		nw.	2 h'r	2 h'r	long	wnw.	fair.
Schr. Jennie N. Huddell, Wilmington N. C†	29.53	750.0	57	13.9		n			5		10		w.	1 h'r	1 h'r			light rain.
Bg. L. & W. Armstrong, N. 31° 23′, W 60° 27′†	30.06	763.5				calm			0		1		wnw.	0	0	cross	w.	clear.
S. S. Lone Star, N. 32° 15′, W. 78° 05′ *†	29.65	753.1	74?	23.3?		sw.			6		10		sw.	0	0	h'vy	sw.	threatening.
S. S. Lessing, N. 41° 12′, W. 51° 30′	29.46	748.3	43	6.1		w.			8		9		w.	3 h'r	3 h'r	h'vy	w.	cloudy.
S. S. Mentmore, N. 38° 14′, W. 72° 16′ *†	29.26	743.2				sse.			9		10			4 h'r	4 h'r	mod.	s.	stormy.
S. S. Neckar, N. 53° 39′, E 5° 20′	29.94	760.5	30.0	— 1.1	100	var.			4		4		se.	snow	snow	sm'h	se.	fair.
S. S. Orinoco, Hamilton, Bermuda			68	20.0		sw.			2		0			0	0			clear.
S. S. Oregon, (Br) N. 45° 18′, W. 41° 53′*	29.21	741.9	54?	12.2?		wsw.			5		7		wsw.	11 h'r	11 h'r	long	wsw.	squally.
S. S. Ohio, (Am) Delaware Bay			38	3.3		ne.			1		10		var.	10 h'r	10 h'r			cloudy.
S. S. Pennsylvania, Philadelphia, Pa			36	2.2	80	e.			3		10		e.	3 h'r	3 h'r			heavy rain.
S. S. Polynesian, N. 44° 47′, W. 43° 44′	29.26	743.2	46	7.8		wsw.			4		7		wsw.	3 h'r	3 h'r	r'gh	wsw.	fair.
S. S. P. Caland, N. 44° 42′, W 42° 48′			55	12 8	87	wsw.			5		6		w.			5	w.	squally.
S. S. Rhein, N. 42° 34′, W. 56° 32′	29.71	754.6				nw.			8		8		nw.	0	0	r'gh	nw.	squally.
S. S. Rhynland, New York, N. Y			36	2.2	100	ne.			5		10		ne.	7 h'r	7 h'r			snowing.
S. S. Scandinavian, N. 44° 24′, W. 44° 31′	29.23	742.4	46	7.8		w.			5		4		w.	sh'rs	sh'rs	high	cross	raining.
S. S. Switzerland, N. 40° 28′, W. 49° 13′						w.			7		10		w.	11 h'r	11 h'r	h'vy	wsw.	cloudy.
S. S. Samaria, Liverpool, Eng	29.95	760.7	48?	8.9?		s.			4		7		ssw.	4 h'r	4 h'r	mod.	sse.	fair.
S. S. Valencia, N. 14° 15′, W. 68° 24′ †	30.02	762.5	79	26.1	82	ne.			5		3		nne.	0	0	light	nne.	clear.
S. S. Belgenland, N. 47° 07′, W. 29° 26′			48	8.9	78	nw.			4				nw.			h'vy	nw.	clear.
S. S. Pennland, N. 41° 06′, W. 59° 00′*	29.82	757.4	47	8.3		w.			6		7		wnw.	4 h'r	4 h'r	high	wnw.	fair.
S. S. State of Georgia, N. 50° 12′, W. 31° 56′†	29.61	752.1	48	8.9		sse			5		7		wsw.	6 h'r	6 h'r	sharp	sw.	hazy.
Schr Adda Doane, N. 22° 20′, W. 74° 24′†	30.08	764.0				se.			2		2		ese.	0	0	sm'h		clear.
Bg. Alcira. N. 35° 04′, W. 73° 20′			60	15.6		wsw.			6		10		w.			hv'y	sw.	
S. S. British Prince, Cape Clear, Ireland			50	10.0		se.			4		6		ese.	0	0	long	sw.	fine.
S. S. Cienfuegos, St. Jago, Cuba, W. I	29.99	761.7	77	25.0		e.			1		3		se.	0	0			clear.
Bk. Chas. Stewart. Barcelona, Spain*†	29.80	756.9				s.			5		2		sw.	0	0	mod.	s.	clear.
Bk. Cato, Oporto, Portugal	29.66	753.4	57	13.9	81	s.												
S. S. D. J. Foley, N. 33° 51′, W. 75° 05′						sw.			7		10		sw.	0	0	h'vy	sw.	squally.
S. S. Labrador, N. 47° 05′, W. 32° 30′			46.4	8.		sse.			4		5?		s.	¼ h'r	¼ h'r	rg'h	s.	covered.?
S. S. Pavonia, N. 47° 55′, W. 34° 16′			50	10.0	93	sse.			6		10			0	0	sli't	sse.	misty.
S. S. Rialto, N. 48° 08′, W. 35° 42′			52	11.1		s.			6		10		s.	4 h'r	4 h'r	mod.	s.	hazy.
S. S. Vaderland, N. 38° 48′, W. 72° 16′			54	12.2		sse.			6		10		s.	6 h'r	6 h'r	mod.	se.	raining.
S. S. Wieland, N. 48° 56′, W. 28° 22′ *	29.66	753.4	50	10.0		var.			1–2		3		ese.	0	0	short	ese.	fair.
S. S. Weser, N. 47° 51′, W. 32° 03′	29.51	749.5	48.2	9.0		s.			5		5		s.	2 h'r	2 h'r	cross	s.	fair.
S. S. Westphalia, N. 43° 49′, W. 41° 51′			48	8.9	78	wsw.			4		8		sw.	3 h'r	3 h'r	mod	nw.	cloudy.
S. S. Main, N. 49° 54′ W. 13° 37′	29.77	756.1	53.6	12		ese.			4		8		w.	5 h'r	5 h'r	sm'h	ese.	rainy.
S. S. St. Laurent, Havre, France			47.3	8.5		e.			4		3		e.	0	0			fair.
S. S Nurnberg, N. 51° 50′, E. 2° 26′	29.98	761.5	34.7	1.5		ese.			3		6		ese.	1 h'r	1 h'r	mod.	e.	fair.
U. S. Navy Yard, Portsmouth, N. H*	29.57	751.1	31	— 0.6	89	ne.	4	1.8			10		ne.					snowing.
U. S. S. Alliance, Basse Terre, St Christophers, W. I	30.08	764.0	76	24.4	73	ene.			2		8		ene.	light	light			cloudy.
U. S. S. Kearsarge, Palermo, Sicily	29.87	758.7	63	17.2	57	n.			3		10		w.					cloudy.
U. S. S. Lancaster, Palermo, Sicily	29.89	759.2	63	17.2	94	wsw.			1–2		5		wsw.	light	light	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	29.52	749.8	37	2.8		ese.			4		10					sm'h		cloudy.
U. S. S. Portsmouth, N 36° 37′, W. 74° 13′	29.34?	745.2?	61	16.1	94	ssw.			6		10		sw.			r'gh		overcast.
U. S. S. Powhatan, Port Royal, S.C	29.67	753.6	54	12.2	93	wnw.			5		10		wnw.					cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	29.79	756.7	55	12.8	68	calm			0		2					sm'h		fair.
U. S. S. Swatara, Port au Prince, Hayti, W.I.	30.04	763.0	74	23.3	86	ese.			1		8		ese.	light	light	sm'h		cloudy.
U. S. S. Trenton, Suez Canal, Egypt	30.09	764.3	67	19.4	46	nnw.			3		8							cloudy.
U. S. S. Vandalia, N. 12° 27′, W. 72° 39′	29.98	761.5	76	24.4	86	ene.			3		2		calm			sm'h		fair.
U. S. S. Yantic, Port Royal, S.C	29.66	753.4	57	13.9	81	wnw.			5		10							overcast.
H. M. S. Alexandra, N. 35° 06′, E. 33° 57′	30.15	765.8	65	18.3	78	e.			1		8		e.					d clouds.
H.M.S. Boadicea, Lagos, W. Africa			80	26.7	91	ene.			1		3	ene.				1	ene.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.94	760.5	65	18.3	73	w.			4		4	wsw.						d. clouds.
H. M. S. Himalaya, N. 44° 39′, W. 63° 35′			30?	—1.1?		calm			0		9					1	nnw.	d. clouds.
H. M. S. Minotaur, Palermo, Sicily	29.87	758.7	60.5	15.8	65	wnw.			1		5	w.						d. clouds.
H. P. M. S. Douro, St Thomas, Gulf of Guinea	29.88	759.0	88.7	31.5	75	sse.			3		5		w.	0	0		sse.	d. clouds.
S. S. Lord Clive, off Fastnet, Ireland						e.			3		7		se.	0	0	sli't	se.	cloudy.
S. S. Athos, N. 36° 50′. W. 73° 58′						wnw.			7		5		wnw.	3 h'r	3 h'r	h'vy		threatening.
S. S. Carroll, Boston, Mass *†	29.55	750.6	32	0.0		se.			3		10		se.	snow	snow			heavy snow.
S. S. Llandaff City, Queenstown, Ireland*†	29.80	756.9	48	8.9		s.			5		10			0	0	mod.	con	cloudy.
S. S. Scythia, N. 50° 22′, W. 18° 47′	29.58	751.3	52	11.1	100	nnw.			4		7		nw.	0	0	mod.	nnw.	hazy.
S. S. Wisconsin, N. 41° 05′, W. 61° 04′	29.79	756.7	45	7.2		n.			4		6		nne.	2 h'r	2 h'r	long	ne.	fair.
S. S. Bohemia, N. 40° 04′, W. 72° 04′						sw.			3–5		10		sw;se.	6 h'r	6 h'r	long	sw;se	raining.
S. S. Nessmore, N. 41° 15′. W. 52° 21′	29.49	749.0	51	10.6	86	nnw.			7		6		nw.	8 h'r	8 h'r	h'vy	nw.	cloudy.
S. S. Archimedes, (Br.) N. 41° 09′, W. 12° 33′	29.45	748.0				sw.			3		6		sw.	½ h'r	½ h'r	long	sw.	fair.
S. S. Olbers, N. 32° 38′, W. 16° 50	30.03	762.7	64	17.8	60	w.			6		7		w.			4	con.	squally.
S. S. Archimede, (It.) N. 33° 50′, W. 39° 53′			68	20.0		sw.			5		6		wsw.	0	0	h'vy	var.	cloudy.
S. S. Picqua, Corunna, Spain.*†	29.60	751.8	53	11.7	86	n.			2				n.	0	0			cloudy
S. S. Dominion, N 43° 10′, W. 45° 16′*†	29.34	745 2	53	11.7	80	w.			5		10		wnw.			r'gh	wnw.	cloudy.
S. S. Texas, N. 41° 12′, W. 48° 37′*†	29.42	747.3	50	10.0	?	wsw.			4		5?		w.	h'vy	h'vy	cross	w.	cloudy?
S. S. Denmark, London, Eng †	29.90	759.4	41	5.0	91	se.			3									
S. S. Erin, N. 40° 27′, W. 68° 28′			38	3.3		ese.			4		10		e.	1 h'r	1 h'r	sli't	ese.	cloudy.
S. S. Strassburg, N. 13° 38′, W. 26° 19′	30.05	763.3	72.5	22.5	85	ne.			4		7		ne.	6 h'r	6 h'r	3	ne.	fair.
S. S. City of Augusta, New York, N. Y *†	29.30	744.2				nne.			3		10		ne.	snow	snow			cloudy.
S. S. Muriel, Trinidad, W. I			79	26.1		ene.			2		0			0	0	sm'h		clear.
S. S. Waesland, Antwerp, Belgium			36	2.2		ne.			3		10			2 h'r	2 h'r			overcast.
S. S. Westernland, Antwerp, Belgium	30.02	762.5	43	6.1	92	e.			3		8		se.	1 h'r	1 h'r			cloudy.
S. S. W. A Scholten. Rotterdam, Holland	30.00	762.0	45.1	7.3	85	ese			3		3		e.	0	0			fair.
S. S. Saxon, Philadelphia, Pa *†	29.30	744.2	38	3.3		ne.			1		10							raining.
S. S. Celtic, Liverpool, Eng *†	29.94	760.5	43	6.1		se.			5		9		sse.	0	0			fine.
S. S. Lepanto, Humber river, Eng	29.92	760.0	40	4.4		ese.			4		10		e.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Romano, off Spurn Head, Eng			44	6.7		se			3		7		se.	0	0	sm'h		hazy.
S. S. Salerno, N. 48° 09′, W. 21° 50′†	29.75	755.6	56	13.3		nw.			4		5		nw.	0	0	mod	nw.	fine.
S. S. Antonio Lopez, Cadiz, Spain			60.5	15.8	82	ssw.			5		10			hail	hail			squally.
Bgt. Achsah, N. 11° 45′, W. 60° 46′†	30.05	763.3	79	26.1		e.			4		4		e.	0	0	mod.	e.	clear.
S. Armenia, N. 42° 16′, W. 35° 00′ *	29.52	749.8	61	16.1	94	ssw.			5		10		wsw.	5 h'r	5 h'r	mod.	wsw.	cloudy.
S. S. Bracadale, N 49° 35′, W. 11° 00′			52	11.1		n.			3		6		se.	3 h'r	3 h'r	con.		gloomy.
Bk. Benjamin Dickerman, N. 8° 20′, W. 54° 40′*†	30.04	763.0	78	25.6		ne.			4		5		ene.	1 h'r	1 h'r	long	ne.	squally.
S. Cornelius, N. 43° 53′, W. 32° 32′ *†	29.60	751.8	59.0	15.0		wsw			5		10		wnw.	8 h'r	8 h'r	long	var.	raining.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. Dora, N. 40° 20′, W. 48° 00′ †	29.37	746.0	50.9	10.5		w.			8		6		wnw.	2 h'r	2 h'r	long	wnw.	squally.
S. David Stewart, Orchilla Island, Venezuela			78	25.6		ese.			4		3		ene.	0	0			
Schr. Edith R. Seward, N. 6° 40′, W. 56° 45′			81	27.2		ne.			1		4		ene.	0	0	mod.	ne.	clear.
Bk. Fred W. Carlon, Progreso Roads, C. A †	30.05	763.3	80	26.7		n.			6		5?		n.	0	0	r'gh	n.	cloudy?
Bk Godeffroy, N. 18° 00′, W. 54° 04′	30.06	763.5	74.7	23.7	76	ene.			4–5		5			rain	rain	mod.	ne.	fair.
Bk. George Davis, N. 48° 53′, W. 18° 03′						n.			3				n.	4 h'r	4 h'r		nw.	misty.
Bk. Galeon, N. (44°?) 38′, W. 4° 24′ †	29.79	756.7	49	9.4		se.			4		5		sse.	4 h'r	4 h'r	r'gh	w.	fair.
S. Gatherer, N. 38° 42′, W. 71° 10′ †	29.14	740.1	58	14.4	94	sw.			8		10		var.	¼h'r	¼h'r	r'gh	e.	
Bk. Hattie G. McFarland, Aspinwall, Panama †	29.94	760.5	78	25.6		ne.			4		5		ne.	0	0	sl't	ne.	
Schr. Jas Slater, N. 33° 52′, W. 58° 17′* †	30.12	765.0				wnw			4		2		w.	1 h'r	1 h'r	r'gh	wnw.	
Bg. John Welsh, jr, N. 28° 03′, W. 62° 21′ †	30.07	763.8				calm			0							long	nw.	
Schr. John Bird, N. 27° 35′, W. 69° 03′						s.			2		1		sw.	0	0	mod	s.	clear.
Schr. Jenny Greenbank, N. 34° 41′, W. 65° 50′*	29.89	759.2	61	16.1		s.			4		3		sw.	light	light	long	nw.	fair.
Bg. Lillian, N. 7° 40′, W. 58° 18′ †	30.01	762.2	80	26.7		nne.			3		9			0	0	r'gh	var.	cloudy.
S. S. Laurel, Key West, Fla †	29.96	761.0	73	22.8		wsw.			3		7		wsw.	sh'rs	sh'rs			fair.
Bg L. F. Munson, Matanzas, Cuba, W. I.			63	17.2		calm			0		0			0	0			clear.
S. S. Madrid, N 36° 41′, W. 8° 08′ †	29.73	755.1	60	15.6	94	w.			6		5		w.	h'vy	h'vy	r'gh	wsw.	showery.
Schr. Minnie A. Bonsall, Brunswick, Ga* †	29.60	751.8				nw.			6				wnw.	4 h'r	4 h'r			cloudy.
Schr. Maggie Abbott, Gonaives, Hayti, W. I* †	30.00	762.0							0–4		3		e.	0	0			clear.
Schr. Norena, Arroyo, Porto Rico, W. I †	30.04	763.0				nne.			2		5		ene.	0	0	sm'h		fine.
Bk. Orpheus, N. 46° 51′, W. 34° 14′ *	29.41	747.0	52	11.1		sse.			6		10					mod.	wnw.	cloudy.
Bk. Sunbeam, N. 41° 30′, W. 33° 35′			62	16.7	94	s.			7		10		ssw.	4 h'r	4 h'r	mod.	sw.	light rain.
S. St. David, N. 33° 56′, W. 39° 59′			68.3	20.2	90	sw.			6		9		var.	0	0			hazy.
S. Stephen D. Horton, Antwerp, Belgium †	29.97	761.2				ene.			4		10		e	0	0			cloudy.
Bk. Tuck Sing, N. 37° 51′, W. 73° 15′						se.			6		10			3 h'r	3 h'r	h'vy	var.	rainy.
Bk. Tros, N. 52° 19′, W. 5° 42′ * †	29.86	758.4	43	6.1		ese.			6		3		se.			mod.	sse.	rain & fog.
S. Vincenzo Accame, N. 37° 24′, W. 33° 46′ †	29.89	759.3	64.4	18		ssw.			5		3		sw.	0	0	r'gh	var.	
Bk. Winifred, N. 2° 53′, W. 43 12′						ne.							ne.	6 h'r	6 h'r		ne.	
Bk. Western Chief, N. 38° 10′, W. 57° 56						nw.; w.			6		5 k		nw.			8	nw.	squally.
S. S. City of Alexandria, Progreso roads, C. A * †	30.02	762.5	76	24.4		sw.			2								se.	d. clouds.
S. Frank N. Thayer, N. 37° 02′, W. 54° 33′ *	29.82	757.4	61	16.1	61	wnw.			7		5 k		wnw.	1 h'r	1 h'r	h'vy	wnw.	d. clouds.
District No. 2—South Atlantic.																		
U. S. S. Pinta, S. 38° 51′, W. 57° 24′	30.14	765.5	64	17.8	78	nw.			4		5		nw.			long	nw.	fair.
H. M. S. Amethyst, S. 44° 20′, W. 63° 23′	29.60	751.8	65	18.3	81	wsw.			2		6	sw.				3	nnw.	d. clouds.
H. M. S. Opal, Simons Bay, Cape Colony	29.93	760.2				se.			6		0							squally.
H. M. S. Sylvia, S. 40° 12′, W. 58° 38′	30.03	762.7	63	17.2	79	n.			5		0					5	nne.	misty.
H. P. M. S Tejo, Noki, Guinea	30.03	762.8	84.2	29.0	92	calm			0		7			0	0			d. clouds.
H.P.M.S. Rainha de Portugal, Benguela, Benguela	29.89	759.2	83.5	28.6	72	nw.			3		2			0	0	2		blue sky.
H. P. M. S. Bengo, S. 0° 17′, W. 11° 58′	29.92	760.0	82.4	28.0	76	ssw.			2		9		sw.	2½ hr	2½ hr	3	sw.	d clouds.
S. S. Hevelius, Buenos Ayres, La Plata * †	30.10	764.5	71	21.7		ese.			4		2		e.	0	0			clear.
S. S. Leipzig, S. 14° 05′, W. 38° 34′ *	30.04	763.0	81.5	27.5	93	e.			1		1		e.	0	0	sm'h	e.	fair.
Bk. Adelaide, S. 22° 07′, W. 39° 31′ * †	29.99	761.7				wnw.			5		5		nw.	3 h'r	3 h'r	mod.	nne.	fair.
Bk. Celestina, S. 30° 46′, W. 45° 54′ * †	30.25	768.3				e.			4		7		ese.	0	0	h'vy	sw.	fair.
S. S. George S. Homer, S. 9° 39′, W. 32° 20′ * †	30.10	764.5				e.			1		1		ene.	0	0	sm'h	ne	
S. Grecian, S 21° 40′, W. 30° 00′ †	30.21	767.3	81	27.2	74	nne.			4		4		ne.	0	0	mod.	e.	fine.
S. Henry Failing S. 16° 41′, W. 28° 55′ * †	30.05	763.3	80	26.7		ene.			6		4		ene.	1 h'r	1 h'r	mod.	ese.	clear.
Bk. Horace Scudder, Banana creek, Guinea * †	30.10	764.5	80	30.0		w.			1		2		wsw.	0	0			fair.
S. Ismir, S. 47° 55′, W. 47° 29′ * †	29.78	756.4				w.			5		8		w.	0	0	mod.	sw.	fine.
Bkt. Levanter, Montevideo, Uruguay*	30.13	765.3	66	18.9		nne.			3		2		sw.	0	0			clear.
S. S. Mendoza, S. 35° 18′, W. 56° 57′ †	30.15	765.8				ne.			4		4		ne.	0	0	sm'h		clear.
S. S. Teniers, S. 20° 01′, W. 35° 13′	30.05	763.3	84.0	28.9	71	n.			4	cs	5 ks	nnw.		0	0	2	nnw.	d. clouds.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 31° 12′, E. 123° 12′	30.23	767.8	50	10.0	100	wsw.			1		5							
U. S. S. Essex, Canton, China	30.09	764.3	65	18.3	100	s.			1		5							fair.
U. S. S. Hartford, Honolulu, Sandwich Islands	29.84	757.9	74	23.3	90	ssw.			1		2?			light	light			cloudy.?
U. S. S. Juniata, off Cat Island, Corea	30.31	769.9	38	3.3	90	nnw.			1		0			0	0	sm'h		clear.
U. S. S. Monocacy, N. 23° 23′, E. 116° 59′	30.15	765.8	62	16.7	71	ene.			4		0					mod.	ne.	clear.
U. S. S. Palos, Tientsin, China	30.34	770.6	38	3.3		n.			2		5		calm					fair.
H.M.S. Audacious, Hong Kong, China	30.05	763.3	67	19.4	89	calm			0		0							blue sky.
H. M. S. Cleopatra, N. 22° 37′, E. 115° 24′	30.08	764.0	66	18.9	84	nne.			2		2					4		blue sky.
H. M. S. Champion, Shanghai, China	30.32	770.1	52	11.1	79	ese.			2		10							foggy.
H. M. S. Flying Fish, N. 25° 25′, E. 119° 42′	30.15	765.8	57	13.9	84	ne.			3–5		2					3	ne.	squally.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.88	758.9	79.0	26.1	82	sw.			1		10							raining.
H. P. M. S. Tamega, Macao, China	30.13	765.4	69.8	21.0	80	calm			0		0			0	0			blue sky.
S. S. Newbern, N 36° 01′, W. 121° 44′			53	11.7	80	nw.			3		0			0	0	small		clear.
S. S. Oregon, N. 38° 29′, W. 123° 18′			48	8.9	92	w.			2		10		ssw.			light	wsw.	gloomy.
S. S. Alameda, Honolulu, Sandwich Islands			69	20.6		s.			1		0			0	0			clear.
S. S. Ancon, Point Loma, Cal	30.03	762.7	59	15.0	82	e.			2		0			0	0			clear.
S. S. City of Chester, near Cape Mendocino, Cal †	30.22	767.6	46	7.8	100	nw.			4		fg.			0	0	sm'h		foggy.
S. S. Queen of the Pacific, San Francisco, Cal †	30.12	765.0	48	8.9	85	sw.			1		3		sw.	0	0			clear.
S. S. State of California, N. 44° 10′, W. 124° 33′ †	30.28	769.1	46	7.8	92	sse.			2		0					long	sw.	clear.
S. S. Eureka N. 51° 36′ W. 127° 54′			40	4.4	91	calm			0		0			0	0	sm'h		clear.
S. S. City of Pekin, N. 30° 50′, W. 154° 03′ †	29.56	750.8	64	17.8	83	wsw.			6		4		wsw.			r'gh	sw.	rainy.
S. S. City of Rio de Janeiro, Yokohama, Japan						n.			1		1		ne.					clear.
S. S. City of Sydney, N. 11° 13′, W. 162° 34′ * †	29.85	758.2	76	24.4	77	calm			0		2 k		ne.	0	0	mod.	nw.	clear.
S. S. Colima, Panama, Panama †	29.98	761.5	74	23.3	90	nw.			2		4		calm	0	0			clear.
S. S. San Blas, N. 29° 41′, W. 116° 22′ †	30.07	763.8	59	15.0	94	nw.			3		6		nnw.	0	0	sm'h	nw.	fair.
S. S. San Jose, N. 13° 54′, W. 90° 48′			79	26.1		w.			2		2		nw.	0	0	mod.	sw.	clear.
S. S. Benalder, Nagasaki, Japan*	30.23	767.8	60	15.6	82	var.			2–4		7		ne.	12 h'r	12 h'r	sm'h		rainy.
S. St. Francis, N. 40° 30′, W. 133° 45′			53	11.7	67	se.			2		8		se.	0	0	long	sw.	cloudy.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, S. 16° 33′, W. 73° 26′*	30.05	763.3	70	21.1	100	e.			2		0					long	ssw.	clear.
H. M. S. Constance, S. 26° 50′, W. 91° 00′	30.31	769.9	73	22.8	90	e.			3		1	s.				1	ese.	blue sky.
H. M. S. Espeigle, S. 43° 51′, E. 167° 56′	30.09	764.3	55	12.8	68	ne.			1		4					3	sw.	d. clouds.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.04	763.0	60.3	15.7	82	ssw.			1		5					sm'h		d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.57	751.1	59	15.0	82	nnw.			0–3		5							d. clouds.
S. S. Zealandia, S. 33° 51′, E. 152° 45′	29.92	760.0	74	23.3	81	ne.			0		0			0	0	mod.	ne.	clear.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.97	761.2	64	17.8		calm			0		10					sm'h		
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.95	760.7	74	23.3	81	ne.			1		8							d. clouds.
H. M. S. Tourmaline, S. 12° 06′, E. 47° 10′	29.85	758.2	84	28.9	96	sse.			1		3					sm'h		d. clouds.
S. Orealia, S. 41° 28′, E. 37° 02′*	30.02	762.5				wnw.			5		1		wnw.	0	0	mod.	sw.	clear.

International Chart I. February 28, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON FEBRUARY 29. 1884.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.86	758.5	65.5	18.6	70	se.			1		2			0.236	6.0		Roziere.
Algiers			29.86	758.5	60.8	16.0	64	wsw.			7		6			0.370	9.4		Thève.
La Calle			29.84	757.8	63.3	17.4	84	s.			4		4			0.059	1.5		Fonfréde.
Tunis			29.87	758.6	61.9	16.6	81	e.			4		3			0	0		Delord.
Geriville					48.9	9.4	46	nw.			2		2			inap.	inap.		Forfert.
Laghouat			30.00	762.1	68.4	20.2	80	se.			2		0			0	0		Abraham.
Biskra			29.97	761.2	62.2	16.8	57	calm			0		6			0	0		Gouzon.
Australian.																			
Adelaide, South Australia			29.94	760.5	58.7	14.8	71	ssw.	5	2.2			4 s			inap.	inap.	clear	Charles Todd, C. M. G.
Hobart Town, Tasmania	29.46	748.3	29.65	753.1	60	15.6	67	nnw.	15	6.7			5		nw.	0	0	fair	Com. J. Shortt, R.N.
Melbourne, Victoria	29.75	755.6	29.84	757.9	59.1	15.1	80	s.	4	1.8			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.34	745.3	29.91	759.6	42.8	6.0	48	se.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.14	740.4	29.94	760.5	35.1	1.7	89	ne.	6.9	3.1			10			0.067	1.7		Dr. Wierzbicki
Eperies	29.02	737.1	29.93	760.2	37.0	2.8	87	calm			0		10 s			0.130	3.3		Julius Mikolik.
Gratz	28.65	727.7	29.94	760.5	39.6	4.2	52	s.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.51	724.1	30.07	763.8	35.8	2.1	68	se.			3		3			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.53	724.6	29.93	760.1	32.4	0.2	78	e.			2		0			0	0	clear	The Staff.
Lemberg	28.94	735.0	29.96	761.0	35.2	1.8	85	e.			4		10			0.122	3.1		Dr. T. Stanecki.
Pola	29.81	757.2	29.93	760.1	48.6	9.2	75	se.			4		8			0	0		I. R. Hydrographic Office.
Szathmar	29.45	748.1	29.94	760.4	35.1	1.7	90	sw.			2		10			0.102	2.6		Joseph Midlinszky, S. J
Szegedin	29.64	752.9	29.93	760.2	40.6	4.8	53	sw.			3		10			0	0		Karl Stancel.
Trieste	29.87	758.6	29.97	761.1	48.7	9.3	56	nw.			1		10			0	0		Royal Academy.
Vienna	29.22	742.2	29.97	761.1	33.8	1.0	62	nw.			2		10			0	0		I. R. Central Met. Obs'y.
Belgian.																			
Arlon	28.42	721.8	29.84	758.0	35.6	2.0	98	se.			1		0			0	0		
Brussels	29.71	754.6	29.92	759.9	37.2	2.9	59	ene.			5		0			0	0		
Furnes	29.90	759.4	29.92	759.9	39.2	4.0	73	ne.			1		0			0	0		
Maeseyck	29.71	754.7	29.84	757.9	41.9	5.5	58	e.			1		10			0.256	6.5	dense fog	
British.																			
Aberdeen	29.91	759.7	30.01	762.2	37.0	2.8	53	s.	13	5.8			3			0.085	2.2	blue sky	W. Boswell.
Bidston, Liverpool Obs'y			29.95	760.7	35.9	2.2	54	ese.	11	4.9			10					overcast	John Harnup.
Bolton, Sharples	29.42	747.3	29.97	761.2	34.6	1.4	66	sse.	3	1.3			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.57	751.1	29.97	761.2	34.7	1.5	76	se.			1		10			0.01	0.3	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes, W.I	29.99	761.7	30.02	762.5	80	26.7	66	e.			3		3					d. clouds	Corp'l O. McGregor, A.H.O
Cardington					37.5	3.1	69	e.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	29.76	755.9	29.94	760.5	40.5	4.7	62	e.			1		6			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E
Falmouth, Observatory	29.66	753.4	29.89	759.2	43.9	6.6	68	e.			4		8					d. clouds	The Staff.
Fort Napier, Natal	27.57	700.3	29.88	758.9	84.0	28.9	54	ne.			1							blue sky	Corp'l C. Stares, A.H.O.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.70	754.4	29.74	755.4	46	7.8	84	se.			1		8			0.02	0.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.79	756.7	29.88	758.9	57.6	14.2	94	w.			6		8					d. clouds	Sgt. F. Norris, A. H.O.
Greenwich, Royal Obs'y	29.78	756.4	29.95	760.7	39.7	4.3	67	ene.			1		10			blank	blank	overcast	The Staff.
Guernsey	29.56	750.8	29.86	758.4	45.5	7.5	96	e.			2		2					blue sky	A. Collenette, F.R.M.S.
Kew, Observatory	29.91	759.7	29.95	760.7	40.0	4.8	53	ne.	7	3.1			6					misty	The Staff.
Leicester, Museum	29.70	754.4	29.96	761.0	40.0	4.4	54	e.			1		2					blue sky	J. C. Smith.
Malta, Mediterranean	29.77	756.1	29.85	758.2	62.0	16.7	70	se.			2		3			0	0	blue sky	Corpl. H. Keene, A. H. O.
Nassau, Bahamas	29.89	759.2	29.94	760.5	73.2	22.9	85	sw.			1		8					overcast	C. S. Duncombe.
Oxford, Radcliffe Obs'y	29.73	755.1	29.96	761.0	39.9	4.4	58	e.			3		3					blue sky	The Staff.
Plymouth	29.81	757.2	29.89	759.2	40.8	4.9	70	ene.			4		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.84	757.9	29.94	760.5	37.5	3.1	81						2					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.96	761.0	30.03	762.7	50.0	10.0	75	sw.			1		5					d. clouds	W. H. Lyne.
Sheffield	29.70	754.4	29.99	761.7	37.4	3.0	90	e.			1		9			blank	blank	overcast	W. F. Cooper.
Silloth Rectory																			Rev. F. Redford, M. A.
Stonyhurst, Observatory																			Rev. S. J. Perry.
Strathfield Turgiss					42.1	5.6	58	e.			1.5		4					d. clouds	Rev. O. H. Griffiths, F.M.S
Valencia, Observatory	29.76	755.9	29.79	756.7	49.6	9.8	80	se.	25	11.2			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.52	749.8	29.91	759.7	60.1	15.6	69	se.	6.2	2.8		0	0			0	0	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	28.62	726.9	28.66	728.0	25.0	— 3.9		se.	32.5	14.5			10 n			0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	28.47	723.1	28.52	724.4	28	— 2.2	98	sw.	20	8.9			10 n		sw.	0.500	12.7	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	28.55	725.2	28.61	726.7	26	— 3.3	92	ne.	21	9.4			10 n		ne.	0.74	18.8	light snow	G. A. Blair.
Cornwall, Ontario	29.12	739.6	29.34	745.2	— 5.7	—20.9	100	nw.			6		10 s			0.400	10.2	overcast	Jas. Smith, M. A.
Dalhousie, N. B	28.68	728.5	28.73	729.7	24.5	— 4.2		e.			3		10 n			0.200	5.1	snowing	H. A. Johnson.
Father Point, Quebec*	28.85	732.8	28.87	733.3	21	— 6.1	84	ne.	35	15.6			10 n			0.03	0.8	heavy snow	J. McWilliams
Fort Garry, Manitoba*	28.81	731.8	29.72	754.9	6	—14.4	100	nw.	4	1.8			10 n			0.05	1.3	light snow	James Stewart.
Fredericton, N. B	28.63	727.2	28.70	729.0	23.1	— 4.9	99	nw.	10	4.5			10 n			1.000	25.4	snowing	Prof. Thos. Harrison.
Grand Manan, N. B	28.73	729.7	28.78	731.0	26	— 3.3	96	w.	10	4.5			10 n			0.40	10.2	light snow	J. Chipman Seeley
Granton, Ontario	28.68	728.5	29.95	760.7	—12.9	—24.9	90	nw.	9	4.0		0	5			0	0	d. clouds	Jas. Grant.
Halifax, N. S*	28.63	727.2	28.76	730.5	32	0.0	78	sw.	16	7.2		8 k	0	w.		0.358	9.1	cloudy	A. Allison.
Hamilton, Ontario	29.35	745.5	29.81	757.2	— 5.4	—20.8	79	sw.			2	2 k	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.15	740.4	29.52	749.8	— 3	—19.4	75	nw.	10	4.5			10 k		nw.	0.12	3.0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	28.57	725.7	28.61	726.7	33.0	0.6	100	sw.	6	2.7		6 k	0			0.200	5.1	d. clouds	C. H. Rigby.
London, Ontario	28.90	734.0	29.93	760.2	—10.9	—23.8	91	w.			2	0	0			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T	27.75	704.8	30.08	764.0	36	2.2	96	nw.	15	6.7			10 n			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	27.57	700.3	29.59	751.6	17	— 8.3	96	w.	5	2.2			10 n		w.	0.01	0.3	threatening	Rev. J. M. Wellwood.
Montreal, Quebec*	29.04	737.6	29.27	743.4	— 2	—18.9	91	w.	24	10.7			10 n			0.62	15.7	light snow	C. H. McLeod, C. E.
Ottawa, Ontario	29.16	740.7	29.41	747.0	— 6.7	—21.5	89	wnw.					10 s					snowing	A. McGill, M. A.
Parry Sound, Ontario*	28.97	735.8	29.67	753.6	—13	—25.0	47	w.	8	3.6		2 k	2 ks	w.	w.	0.05	1.3	fair	Rev. R. Mosley.
Peterboro, Ontario	28.82	732.0	29.64	752.8	— 3.9	—19.9	89	nw.			3		10 k			0.02	0.5	overcast	Wm. O'Connor, M.A.
Port Arthur	29.08	738.6	29.89	759.2	—16	—26.7	100	calm	0	0		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.12	739.6	29.91	759.7	—10	—23.3	100	w	14	6.3		0	0			0.02	0.5	clear	H. Morgan.
Port Stanley, Ontario	29.20	741.7	29.94	760.5	—10	—23.3	95	w.	16	7.2		0	0			inap.	inap.	clear	M. Payne.
Qu Appelle, N. W. T	27.40	695.9	29.73	755.1	26	— 3.3		nw.	10	5.5		8 ck	0	nw.		0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	28.64	727.4	29.02	737.1	6	—14.4	91	s	12	5.4			10 s			1.10	27.9	light snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.05	737.9	29.57	751.1	—11	—23.9	78	nw.	30	13.4			10 n			0.38	9.7	light snow	W. H. McIntyre.
St. Andrews, N. B	28.70	729.0	28.75	730.2	25	— 3.9	100	nw.	6	2.7			10 n			1.11	28.2	light snow	
St. John, N. B	28.58	725.9	28.73	729.7	25.0	— 3.9	93	sw.	16	7.2			10 n			0.600	15.2	snowing	G. Hutchinson.
St. Pierre, N. F			28.90	734.0	33.8	1.0		se.			4								The Commandant.
Saugeen, Ontario*	29.03	737.3	29.84	757.9	— 6	—21.1	83	nw.	26	11.6			10 s			0.13	3.3	cloudy	
Stratford, Ontario	28.43	722.1	29.89	759.2	—11.5	—24.2	57	w.	10	4.5			10 s			0.270	6.9	d. clouds	W. McBride, M.A.
Sydney, C. B*	28.55	725.2	28.61	726.7	33	0.6	92	sw.	35	15.6			10 n			0.39	9.9	light snow	T. C. Hill, C.E.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Toronto, Ontario*	29.36	745.7	29.79	756.7	— 3	—19.4	79	w.	10	4.5			10 s		w.	0.05	1.3	cloudy	[illegible] Observatory.
Woodstock, Ontario	28.70	729.0	29.92	760.0	— 9.7	—23.2	82	nw.	21	9.4			10 n			0.250	6.3	snowy	Prof. N Wolverton, M.A.
Yarmouth, N.S*	28.82	732.0	28.89	733.8	27	— 2.8	80	w.	30	13.4			10 n			0.37	9.4	light snow	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.98	761.5	30.01	762.2	72.5	22.5	92	sw.				9 ck	0			0	0	fine	I. Garfelt.
Cape Town, The Castle	29.79	756.7			76.0	24.4	40	se.				0	1 k			0	0		Capt. R. Gardner Warton
Springbok Fontein	27.83	706.9			82	27.8	49									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.86	758.4	29.93	760.3	62.2	16.8	92	e.			2	10						cloudy	Samuel Redolez.
Iquique	29.93	760.1	29.95	760.8	66.9	19.4	81	sw.			3							cloudy	Rafael Moreno.
Niebla	29.56	750.7	29.66	753.4	54.7	12.6	90	e.			2		4		w.	0	0	cloudy	Federico Köhling.
Punta Caldera	29.90	759.5	29.99	761.7	66.2	19.0	75	sw.			1	8 c		sw.				fair	Manuel Tobar.
Punta Corona	29.81	757.2	30.04	762.9				nw.			3		6 n		n.	1.102	28.0	cloudy	Francisco Alvarado.
Valparaiso	29.82	757.4	29.96	760.9	59.9	15.5	84	n.			0		10					misty	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Zi-Ka-Wei, near Shanghai	30.30	769.6	30.32	770.2	45.1	7.3	88	e.	5.6	2.5		0	0			0	0	clear	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	30.13	765.2	30.17	766.4	35.1	1.7	84	ese.	27	12.			10						Oversergent Fischer.
Fanöe	30.09	764.3	30.11	764.8	34.2	1.2	96	e.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.66	753.4	29.71	754.5	— 2.0	—18.9	100	ene.			4		0						S. Kleinschmidt.
Ivigtut, Greenland	29.44	747.7	29.46	748.2	5.7	—14.6		calm			0		9						
Jacobshavn, Greenland	29.87	758.6	29.91	759.8	—27.8	—33.2		calm			0		1						
Stykkisholm, Iceland	29.50	749.2	29.54	750.3	35.4	1.9	86	w.			2		8						A. O. Thorlacius.
Thorshavn	29.90	759.5	29.93	760.1	40.6	4.8	67	s.	20	9.			5						Overloerer Bergh.
Upernavik, Greenland	29.83	757.7	29.88	758.9	—15.0	—26.1		e.			2		5						
Vestervig	30.10	764.4	30.19	766.7	33.1	0.6	89	e.			4		10					snowing	Loerer Oesterbol.
Egyptian.																			
Cairo	30.01	762.3			68.0	20.0		ne.	2.0	0.9		4 ck	0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.06	738.0	29.71	754.6	51.4	10.8	90	ese.			1		10 n		se.	0.008	0.2	light rain	M. Labroue, Director.
Alençon, Normal School	29.30	744.2	29.85	758.2	40.6	4.8	69	ne.			4		1		sw.	0	0	clear	M. Nicot, Director.
Arras, Normal School	29.55	750.5			39.4	4.1	83	n.			1		1	ne.	n.	0	0	clear	M. Ungerer, Director.
Avignon, Normal School	29.69	754.0	29.76	756.0	51.1	10.6	65	n.			1		8		s.	0	0	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.24	742.7	29.80	757.0	42.8	6.0	74	e.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.61	752.1	29.88	759.0	37.8	3.2	63	ene.			2		0			0	0	clear	M. Frère Eugène Marie.
Besançon, Normal School	28.78	731.1	29.71	754.6	51.8	11.	96	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.41	746.9	29.67	753.5	55.6	13.1	67	ne.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.20	741.6	29.75	755.6	50.7	10.4	72	ene.			1		1		ene.	0	0		M. Sauvageot, Director.
Brest, Naval Observatory	29.63	752.5	29.87	758.7	49.6	9.8	64	ene.			2		0			0	0		M. de Kermarée, Dir.
Caen, Normal School	29.81	757.1	29.88	759.0	43.9	6.6	94	ne.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.48	748.8	29.81	757.2	41.5	5.3	69	se.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.31	744.5	29.84	757.8	41.7	5.4	94	ese.			1		0			0	0	clear	M. Noël, Director.
Clermont-Ferrand Obs'y	28.85	720.2	29.70	754.3	53.6	12.0	63	nw.			1	c	5 k			0	0		M. Allunard, Director.
Cluny, Normal School	28.91	734.2	29.80	757.0	50.0	10.0	74	n.			1		8			0	0	very cloudy	M. de Villeinontée, Dir.
Commercy, Normal School	29.00	736.7	29.78	756.3	35.6	2	65	ne.			1	2 c		ne.	ne.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.22	691.3	29.74	755.5	51.4	10.8	32	ne.			1		3 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.60	726.4	29.72	755.0	49.5	9.7	62	se.			4		10		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.03	737.3	29.80	756.9	50.7	10.4	58	ene.			4		k		ne.	0	0		M. Ablard, Director.
Guéret, Normal School	28.15	715.0	29.71	754.5	53.2	11.8	78	e.			1		8 k		n.	0	0	very cloudy	M. Delorme, Dir.
Lescar, Normal School	29.08	738.7	29.65	753.1	52.7	11.5	80	w.			1		5			0.008	0.2	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.72	751.8	29.82	757.4	52.2	11.2	52	ne.			2		1	e.	ne.	0	0	clear	L'. T. Carré, Director.
Lyon, St. Genis-Laval	28.69	728.6	29.74	755.3	52.0	11.1	60	e.			1		8 cn			0	0	very cloudy	M. André, Director.
Mans, Normal School	29.49	749.1	29.82	757.5	42.3	5.7		ne.			4		0			0	0	clear	M. Richard, Director
Marseille, Observatory	29.46	748.3	29.73	755.1	54.0	12.2	63	ese			4		10		se.	0.122	3.1		M. Stephan, Director.
Montlouis	24.40	619.8	29.24	742.8	34.7	1.5	87	ne.	5.6	2.5			10	e.		1.484	37.7		M. Cave for Dr. Fines.
Montpellier, Normal School	29.56	750.8	29.67	753.6	46.8	8.2	100	n.			2		10	e.		0.181	4.6	covered	M. Galzin, Director.
Nancy, Normal School	29.02	737.2	29.82	757.5	37.8	3.2	50	n.			1		cn		w.	0	0		M. Hasse, Director.
Nantes, Observatory	29.66	753.3	29.82	757.4	49.5	9.7	49	e.			1–2		0			0	0	misty	M. Larocque, Director.
Perpignan, Observatory	29.53	750.1	29.64	752.9	52.9	11.6	95	s.	11.2	5.0			10		ese.	1.984	50.4		Dr. Fines, Director.
Pic-du-Midi, Summit	20.83	529.1			26.4	— 3.1							5		s.	0.945	24.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.60	728.8	29.76	755.9	51.8	11	64	s.			1		n		s.	0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	24.84	631.0			33.3	0.7	98	wsw.			1		10			0	0	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.69	754.0	29.72	754.8	57.9	14.4	58	e.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.51	749.6	29.72	755.0	51.8	11.	73	ene.			6					0	0		M. Brotier, Director.
Rodez, Normal School	27.59	700.7	29.74	755.4	46.8	8.2		se.			1		5		se.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.83	757.6	29.87	758.8	42.8	6	65	ne.			1		0			0	0	clear	M. Mouillot, Dir.
St. Lô, Normal School																			M. Delaplanche, Dir.
Saint Maur, Observatory	29.69	754.0	29.85	758.2	40.5	4.7	63	nne.			2		5			0	0	cloudy	M. Renou, Director.
Toulouse, Observatory	28.95	735.4	29.67	753.5	51.8	11.0	95	se.			4		10	se.		0.177	4.5	covered	M. Baillaud, Director.
Tours	29.62	752.3	29.80	757.0	45.7	7.6	64	nne.			1		0			0	0		M. de Tastes.
Versailles, Observatory	29.35	745.5	29.84	758.0	39.9	4.4	59	e.			2		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.53	750.0	29.68	753.8	52.3	11.3	86	nw.	7.8	3.5			10 kn		w.	0.087	2.2	covered	M. Cartier, Director.
German.																			
Ansbach	28.42	721.9	29.92	760.0	35.6	2.0	46	e.			2		1	e.		0	0		Prof. Juedt.
Bamberg	29.06	738.0	29.89	759.3	37.4	3.0	55	ne.			2		1 s			0	0		Prof. Dr. Hoh.
Berlin	29.87	758.7	30.02	762.5	34.9	1.6	65	e.			1		10			0.031	0.8		Meteorological Institute
Breslau	29.47	748.6	30.00	762.1	33.3	0.7	94	e.			2		10			0.063	1.6		Royal University Obs'y
Carlsruhe	29.39	746.6	29.86	758.5	37.4	3.0	50	ne.			2		9	sw.		0	0		Albert Senz.
Cassel	29.19	741.3	29.90	759.4	33.4	0.8	86	ne.			4		4	ne.		0.094	2.4	snowing	Dr. H. Möhl.
Frankfort-on-the-Main	29.53	750.1	29.91	759.7	37.9	3.3	46	e.			2		5			0	0		Physical Society.
Friedrichshafen	28.39	721.1	29.85	758.1	37.4	3.0	87	n.			1		10	wnw.		0.445	11.3	rain & snow	Wilhelm, Chief Tel.
Hamburg	30.02	762.5	30.11	764.8	34.9	1.6	91	e.			2		10			0	0	light fog	E. Preller.
Kiel	30.06	763.4	30.07	763.8	35.4	1.9	87	ene.			2		10			0.110	2.8		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.4	30.02	762.5	34.2	1.2	82	ne.			2		10			0	0		H. Leppig, Asst.
Magdeburg	29.82	757.4	30.02	762.4	36.1	2.3	85	ene.			1		10			0	0		Weather Observatory.
Memel	30.26	768.6	30.31	769.8	34.3	1.3	75	ese.			4		0					clear	Isserimann.
Munich	28.01	711.5	29.86	758.5	36.1	2.3	61	e.			2		1	e.		0	0		Central Station.
Neufahrwasser	30.17	766.4	30.19	766.8	32.9	0.5	82	e.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.37	746.1	29.90	759.5	36.3	2.4	57	ne.			1		10			0	0		Prof. Dicknether.
Stuttgart	28.89	733.7	29.80	757.0	38.3	3.5	67	e.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.09	764.3	30.12	765.0	34.9	1.6	82	e.			2	10 c8				0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.57	751.1	29.96	761.0	59.5	15.3		e.			1.5	0	6			0.150	3.8		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.84	758.0	29.90	759.3	85.0	29.4	31	wnw.	21.0	9.4			4			0	0	d. clouds	
Deesa	29.37	745.9	29.84	757.8	87.4	30.8	15	wnw.	14.0	6.3			0			0	0	blue sky	
Bombay	29.84	758.0	29.88	758.9	78.1	25.6	77	nw.	14.0	6.3			0			0	0	blue sky	
Poona, Yarrowda	27.99	711.0	29.81	757.2	90.1	32.3	16	nw.	17.0	7.6			0			0	0	blue sky	
Belgaum	27.31	693.7	29.82	757.3	83.0	28.3	45	wsw.	10.0	4.5			3	n.	e.	0	0	d. clouds	
Lahore	29.12	739.7	29.88	759.0	70.7	21.5	33	n.	4.0	1.8			5			0	0	d. clouds	
Roorkee	28.90	733.9	29.80	757.0	73.7	23.2	29	w.	2.5	1.1			1			0	0	blue sky	
Agra	29.27	743.3	29.83	757.8	79.2	26.2	16	sw.	8.0	3.6			4		w.	0	0	d. clouds	
Nagpur	28.77	730.7	29.79	756.6	90.7	32.6	21	w.	8.0	3.6			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Jubbulpore	28.47	723.2	29.82	757.3	84.8	29.3	30	se.	4.0	1.8			8	sw.		0	0	d. clouds	
Lucknow	29.41	747.0	29.79	756.6	80.2	26.8	30	calm	0	0			0			0	0	blue sky	
Allahabad	29.48	748.8	29.79	756.6	83.7	28.7	34	w.	4.0	1.8			8	sw.		0	0	d. clouds	
Patna	29.57	751.1	29.76	755.8	81.4	27.4	50	nne.	6.8	3.0			8	nne	nne.	0	0	d. clouds	
Hazaribagh	27.78	705.5	29.76	755.9	83.6	28.7	27	wnw.	6.0	2.7			8		w.	0	0	d. clouds	
Cuttack	29.75	755.7	29.83	757.8	84.5	29.2	62	ssw.	7.0	3.1			0			0	0	blue sky	
Calcutta, Alipore	29.80	756.9	29.82	757.5	79.8	26.6	68	sse.	8.0	3.6			1			0	0	d. clouds	
Dhubri	29.66	753.3	29.78	756.3	76.7	24.8	71	calm	0	0			0			0.01	0.3	blue sky	
Chittagong	29.82	757.4	29.91	759.7	73.9	23.3	83	ssw.	4.4	2.0			0			0	0	misty	
Sibsagar	29.55	750.6	29.90	759.4	62.9	17.2	94	ne.	1.0	0.4			10	w.	w.	0.25	6.4	overcast	
Jeypore	28.42	721.7	29.87	758.6	77.2	25.1	14	nw.	10.5	4.7			6	w.		0	0	d. clouds	
Zanzibar	29.78	756.3	29.80	756.9	88.7	31.5	58	e.	6.4	2.9			1	ne.		0	0	d. clouds	
Bellary	28.34	719.8			93.0	33.9	24	e.	2	0.9		0	0			0	0	blue sky	
Trichinopoly	29.02	752.3			91.9	33.3	27	e.	0.3	0.1		0	0			0	0	blue sky	
ITALIAN.																			
Udine	29.52	749.8	29.94	760.4	47.7	8.7	54	calm	0	0			10			0	0		Prof. Giovanni Cloodig.
Milan	29.41	747.1	29.95	760.6	47.8	8.8	55	ne.	1.8	0.8			9	wsw.		0.020	0.5		Prof. G.V.Schiapparelli
Padua	29.80	757.0	29.92	759.9	50.9	10.5	73	ne.	5.6	2.5			0	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.98	736.1	29.91	759.6	43.2	6.2	80	n.	3.1	1.4			10			0	0		Prof. F. F. Denza.
Genoa	29.68	753.8	29.87	758.7	47.8	8.8	67	n.	8.1	3.6			10	sw.		0	0		Prof. G. M. Garibaldi.
Pesaro	29.84	758.0	29.89	759.3	48.9	9.4	84	e.	11.9	5.3			10	sw.		0	0		Prof. Luigi Guidi.
Florence	29.61	752.2	29.88	758.8	53.6	12.0	75	e.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.72	755.0	29.80	756.8	49.1	9.5	81	ne.	6.9	3.1			10			0.130	3.3		Prof. P. Monte.
Rome	29.66	753.4	29.84	757.9	58.5	14.7	52	ne.	8.1	3.6			10	se.		0.161	4.1		Prof. P. Tacchini.
Lecce	29.67	753.6	29.93	760.2	58.3	14.6	38	sw.	6.9	3.1			4			0	0		Prof. C. de Giorgi.
Cosenza	29.02	737.1	29.93	760.2	52.9	11.6	76	nw.	1.8	0.8			4	w.		0.047	1.2		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.58	751.2	29.83	757.7	66.0	18.9	34	ne.	1.8	0.8			5	w.		0	0		Prof. G. Cacciatore
Syracuse	29.86	758.5	29.91	759.6	59.2	15.1	58	ne.	2.5	1.1			8	w.		0	0		Sig. V. Giuliano.
Sub-series.																			
Naples, Astron'l Obs'y																0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.21	767.3	30.24	768.2	35.3	1.8	95	nw.			4		10k;ks		w.	0.028	0.7	cloudy	H. Hattori.
Awomori	30.15	765.8	30.19	766.8	37.5	3.1	80	wnw.	18.6	8.3		0	3 s			0.051	1.3	fair	K. Ogawa.
Hakodate	30.18	766.5	30.19	766.8	35.0	1.7	64	nnw.	6.0	2.7		0	6 s			0	0	cloudy	Y. Souma.
Hamamatsu	30.10	764.5	30.20	767.0	48.6	9.2	96	wnw.			2	0	0						Sekigawa & Yamazaki.
Hiroshima, I. M. Obs'y	30.30	769.5	30.31	769.9	46.3	7.9	85	n.	3.7	1.6		1 cs	0	n.		0	0	clear	Y. Okamoto.
Kagoshima	30.28	769.1	30.29	769.4	51.0	10.6	86	n.			2	0	0			0	0	clear	
Kanazawa	30.23	767.9	30.34	770.6	40.0	4.4	91	ese.	5.8	2.6			10ks;s			0	0	cloudy	S. Endo.
Kioto	30.11	764.9	30.29	769.3	41.7	5.4	87	nne.	0.4	0.2			10 s			0	0	cloudy	M. Tojima.
Kochi	30.25	768.2	30.27	768.7	50.1	10.1	86	n.	1.3	0.5		0	0			0	0	clear	K. Kusunose.
Miasaka	30.27	769.0	30.30	769.7	54.5	12.5	84	sse.			1	0	1 s		w.	0	0	fair	K. Masusaki.
Miyako	30.07	763.7	30.18	766.5	33.0	0.6	86	wsw.	3.9	1.7			9 s		nw.	0	0	cloudy	N. Honno & K. Suwa.
Nagasaki, I. M. Obs'y	30.06	763.5	30.27	768.8	47.5	8.6	86	calm	0	0		0	0			0	0	clear	
Nemuro	29.99	761.7	30.04	763.0	29.5	— 1.4	77	calm	0	0		0	3 s			0	0	fair	A Shibuya.
Niigata	30.25	768.3	30.29	769.3	40.9	4.9	91	sw.	2.9	1.2		0	2 ks		sw.	0.020	0.5	fair	Satoo & Tomikawa.
Nobiru	29.99	761.8	30.01	762.2	38.6	3.7	86	sw.	2.3	1.0		0	10s;ks			0	0	overcast	Yoshino & Midzushina.
Numadzu	30.16	766.0	30.20	767.0	50.0	10.0	92	ene.			1		10 s			0	0	cloudy	T. Ohgi.
Osaka	30.28	769.0	30.29	769.4	45.6	7.6	82	ne.	6.9	3.0		0	0			0	0	clear	H. Omura.
Sakai	30.33	770.3	30.34	770.5	48.8	9.3	80	nnw.			2	0	4 ks		n.	0	0	fair	Yamawchi & Sakamoto.
Sapporo	30.10	764.5	30.17	766.2	31.5	— 0.3	63	nw.	17.0	7.6			10 s			0	0	covered	S. Kimura.
Shimonoseki	30.18	766.6	30.32	770.0	47.7	8.7	76	ene.			1	0	0			0	0	clear	S. Sakano.
Wakayama	30.21	767.4	30.26	768.7	48.8	9.3	72	ne.	0.4	0.2		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius R. A. Observatory	29.65	753.1	29.84	757.9	81.1	27.3	72	wnw.	7.5	3.4		2c;cs	5 k;n	n.	w.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.28	616.7	30.08	764.0	48.7	9.3	74	nnw.	0.9	0.4		0	3ck;s			0	0	clear	M. Leal & M. Pina
Mazatlan	29.68	753.9	29.94	760.6	65.0	18.3	58	nnw.	11.0	4.9		1 cs	0	w.		0	0	hazy	F. Quijano, C. E.
NETHERLANDS.																			
Flushing	29.96	761.0	29.96	761.0	37.8	3.2		ene.			4					0	0		
Groningen	30.04	762.9	30.08	764.1	32.7	0.4		se.			1					0	0		
Helder	30.00	762.1	30.00	762.1	33.4	0.8		e.			2					0	0		
Hellevoetsluis	29.97	761.3	29.97	761.3	43.5	6.4	46	ene.			1					0	0		
Utrecht	29.95	760.0	30.00	762.0	38.1	3.4	33	ene.			3		0			0	0	clear	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.8			76.8	24.9	94	nnw.	0	0			10			0.311	7.9		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.12	765.0	30.18	766.6	37.4	3.0	57	calm	0	0			5			0	0		
Brono	30.23	767.9	30.27	768.9	37.4	3.0	61	s.			2		6			0	0		
Christiania	30.25	768.4	30.41	772.4	22.6	— 5.2	74	e.	9	4			0			0	0		
Gjæsvær	29.97	761.3	30.00	761.9	38.7	3.7		wsw.			9		10			0.146	3.7	snow	
Lodingen	30.10	766.1	30.21	767.3	36.9	2.7	85	sw.			4		10			0.004	0.1	foggy	
PORTUGUESE.																			
Angra, Azores																			Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.05	763.3	30.14	765.6	61.3	16.3	54	sse.	3.1	1.4			6			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.51	749.5	29.85	758.1	55.4	13.0	75	wnw	11.2	5.0			8			0.205	5.2		The Staff.
Ponta Delgada, Azores	29.78	756.3	29.85	758.1	63.3	17.4	70	w.	13.0	5.8			4			0.110	2.8		
Saint Paul de Loando																			
St. Vincent, Cape Verd Ids.	30.01	762.3	30.05	763.2	69.4	20.8	75	ene.			5		1			0	0	hazy	
San Salvador, Congo	28.00	711.3	29.82	757.3	81.7	27.6	66	sw.			1		7					light rain	
Serra da Estrella	24.95	633.7	29.79	759.7	32.4	0.2	100	nw.	28.6	12.8			10			0.094	2.4	foggy	
RUSSIAN.																			
Akmolinski	29.09	738.8	30.33	770.3	—10.5	—23.6	82	ssw.	7	3		0	0			0	0		Major K. Lasarew.
Archangel	30.20	767.0	30.22	767.5	25.2	— 3.8	93	wsw.	4	2			10					light snow	Capt. Sselliwerstow
Ashuruda	30.22	767.6	30.13	765.2	52.2	11.2	80	nw.	7	3		0	3			0	0	light clouds	
Astrakhan	30.39	771.8	30.31	769.8	31.8	— 0.1	90	ene.	7	3			10			0	0	h'vy clouds	Capt. Wisganow.
Baku	30.21	767.3	30.16	766.1	45.7	7.6	88	s.	9	4		0	0			0	0		
Barnaul	29.75	755.7	30.32	770.1	— 4.7	—20.4	73	sw.	13	6			2			0	0		Meteorological Office.
Bielosersk	29.98	761.5	30.49	774.5	16.0	— 8.9	80	calm	0	0			10 ks			0	0		
Dorpat	30.24	768.2	30.51	774.9	19.8	— 6.8	89	e.	4	2			10 n			0	0	light fog	Observatory.
Ekaterinburg	29.07	738.3	30.13	765.2	8.1	—13.3	74	wsw.	13	6			10					snow-drift	Meteorological Obs'y
Elissawetgrad	29.48	748.8	29.95	760.7	33.4	0.8	90	ene.	11	5			10 n			0.295	7.5		
Kasan	30.13	765.2	30.42	772.7	9.5	—12.5	73	wsw.	4	2			7			0	0		Observatory.
Kem	30.25	768.4	30.30	769.7	28.9	— 1.7	84	sw.	13	6			10 ks			0	0	h'vy clouds	
Kertch	29.91	759.8	29.94	760.4	44.4	6.9	84	calm	0	0			9 n			0	0		Lagorio & Sastyrea
Kieff	29.40	746.8	30.08	763.9	26.6	— 3.0	98	nne.	13	6			10 n			0.130	3.3		Observatory.
Koslov	29.85	758.1	30.40	772.1	15.8	— 9.0	78	ese.	13	6			10 s			0	0		
Lgov	29.66	753.1	30.29	769.4	22.5	— 5.3	87	e.	10	7			10			0.004	0.1	snowing	R. I. Ssaweljew, Engin'r.
Libau	30.30	769.6	30.32	770.2	33.1	0.6	59	e.	18	8			0			0	0		[illegible]
Lugan	29.91	759.6	30.11	764.9	38.3	3.5	78	ese.	22	10			10			0	0		Meteorological Obs'y.
Moscow	29.99	761.7	30.52	775.2	14.0	—10.0	55	calm	0	0		4 cs	0			0	0		Meteorological Obs'y
Nertschinsk	28.09	713.4	30.67	778.9	— 0.8	—18.2	61	calm	0	0			1			0	0		
Nikolaiev	29.84	757.9	29.91	759.7	36.0	2.2	96	calm	0	0			10 n			0.280	7.1	light clouds	Capt. Kurdakow.

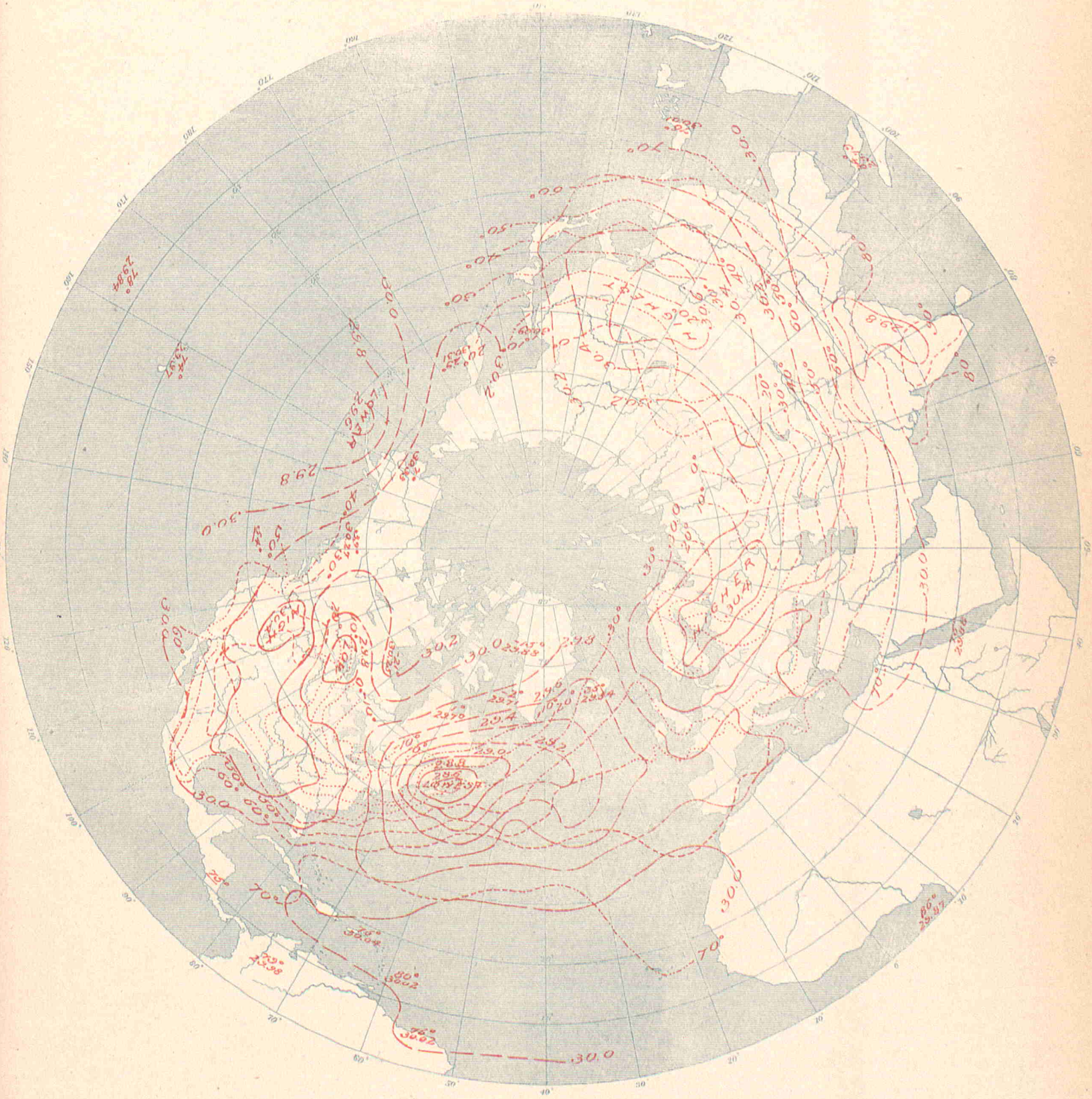
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mts. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	30.00	762.0	30.09	764.2	1.4	—17.0	72	w.	9	4		0	0						Iwanow.
Pekin, China	30.50	774.7	30.64	778.3	29.8	— 1.2	78	se.	2.2	1.0			9 n						Siang.
Petro-Alexandrovsk	29.89	759.2	30.25	768.4	48.7	9.3	31	ese.	1.1	0.5			0						Walter.
Petrozavodsk	30.19	766.7	30.40	772.1	24.4	— 4.2	79	w.	7	3			10			0	0	light clouds	Dr. Bergmann.
Pinsk	29.66	753.3	30.18	766.6	29.1	— 1.6	92	ene.	22	10			10 s			0	0		
Poti	30.12	765.0	30.15	765.8	51.1	10.6	95	e.	4	2			5 ks			0	0		
St. Petersburg	30.47	773.8	30.49	774.4	19.2	— 7.1	60	nw.	4	2		0	3 s			0	0	light clouds	Central Physical Obs'y.
Samarkand	27.70	703.5	30.23	767.9	43.7	6.5	52	calm	0	0			0						Dresch.
Semipalatinsk	29.74	755.4	30.48	774.3	0.2	—17.7	67	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.81	757.2	30.03	762.8	42.8	6.0	72	wnw.	20	9		0	7 s			0.102	2.6		
Staroi Bykhov	29.71	754.6	30.30	769.7	24.6	— 4.1	75	e.	13	6			9			0	0		Carl Hagen.
Tashkend, Laboratory	28.56	725.5	30.34	770.7	29.1	— 1.6	93	nw.	7	3			0						Terch, A. M.
Tiflis	28.71	729.2	30.16	766.0	47.8	8.8	38	e.	2	1		6 c	0			0	0	light clouds	Physical Observatory.
Vernoe	27.63	701.8	30.26	768.5	31.3	— 0.4	59	calm	0	0		0	1 k						Sariono.
Viatka	29.64	752.8	30.33	770.3	12.6	—10.8	66	wsw.	4	2			10			0	0		
Vladivostock	30.44	773.2	30.51	774.9	20.3	— 6.5	41	n.	22	10			0			0	0		
Warsaw	29.65	753.2	30.10	764.4	33.6	0.9	92	e.	18	8			10 ks					heavy clouds	Astronomical Obs'y.
Yeniseisk	29.76	755.8	30.07	763.8	5.7	—14.6	77	w.	18	8			0?			0.035	0.9	snowing?	M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.85	758.2	30.38	771.6	13.9	—10.1	51	calm	1.8	0.8		3 c	0	ne.		0	0	clear	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	29.44	747.8	29.55	750.6	54.5	12.5	90	ene.					10 kn			0.465	11.8		B.J.Elin.
Bilbao, Met. Obs'y	29.63	752.5	29.69	754.0	57.2	14.0	69	nw.	1.3	0.6			10			0.504	12.8	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.75	679.5	29.78	756.3	41.5	5.3	81	w.	10.5	4.7			10			0.449	11.4	covered	Domingo Martin.
Madrid, Royal Obs'y	27.48	697.9	29.72	754.8	48.7	9.3	63	w.	16.1	7.2		0	8			0.008	0.2	very cloudy	The Staff.
Murcia, Met. Obs'y	29.57	751.0	29.71	754.7	64.4	18.0	81	wsw.	2.7	1.2		5	4	ese.		0.224	5.7	raining	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.85	732.7	29.74	755.3	53.6	12.0	76	sw.	4.3	1.9			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.89	759.3	29.96	761.0	68.5	20.3	97	nne.	11.2	5.0			10 n		n.	0.28	7.2	raining	Benito Vines, S. J.
Manilla, Philippine Islands	29.95	760.7	30.01	762.2	76.0	24.4	73	ese.	3.3	1.5		0	8			0	0	clear	F. F. Faura, S. J.
San Fernando, Naval Obs'y	29.80	756.9	29.90	759.4	58.6	14.8	75	w.	39.5	17.6		0	8		w.	0.324	8.2		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I.	29.95	760.8	30.04	763.1	75.6	24.2	83	nw.				5 s	4 kn	e.	e.	0	0	d. clouds	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	30.35	770.8	30.39	771.8	12.9	—10.6	100	calm			0					0	0	foggy	
Umea	30.35	770.9	30.40	772.2	27.7	— 2.4	83	sw.			2		0			0	0		
Hernosand	30.34	770.7	30.39	772.0	29.8	— 1.2	69	calm			0		0			0	0		
Stockholm	30.26	768.5	30.43	773.0	30.2	— 1.0	70	ese.			2		2			0	0		
Wisby	30.25	768.3	30.31	769.8	34.5	1.4	74	ese.			4		0			0	0		
Sub-series.																			
Upsala	30.34	770.7	30.43	772.9	26.6	— 3.0	79	sse.	1.6	0.7			8			0	0		H.H.Hildebrandesson
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.09	764.2	47.5	8.6	76	s.	4	2.0			3		s.	0	0		The Observatory.
Valona			30.00	761.9	58.6	14.8		ne.			2		5			0	0	%covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.13	765.2	63.3	17.4	70	sw.			2	c	2 n		sw.	0	0		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	29.40	746.7	29.48	748.8	11	—11.7	47	nw.	7	3.1			10 s		nw.	0.20	5.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.18	741.2	29.90	759.4	—15.3	—26.3	62	w.	8	3.6		0	0			0.02	0.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.03	635.8	30.13	765.3	26.3	— 3.2	77	ne.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.28	692.9	30.32	770.1	30.5	2.5	87	sw.	24	10.7		0	0			0	0	clear	F. Newman.
Atlanta, Georgia	28.92	734.0	30.14	765.5	13.0	—10.6	61	n	15	6.7		0	0			0	0	clear	S. W. Beall.
Atlantic City, New Jersey	29.69	754.1	29.70	754.4	13.0	—10.6	44	w.	25	11.2		1 k	0	w.		0.04	1.0	clear	B.A.Blundon.
Augusta, Georgia	29.97	761.2	30.17	766.3	24.5	— 4.2	68	w.	5	2.2		0	0			0	0	clear	W.J.Evans.
Baltimore, Maryland	29.81	757.2	29.86	758.4	12.0	—11.1	42	nw.	22	9.8		0	0			0.02	0.5	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.67	753.6	29.69	754.1	13.0	—10.6	80	nw.	36	16.1		0	2 k		nw.	0.02	0.5	clear	F.L.Johnson.
Bennett, Fort, Dakota	28.15	715.0	29.88	758.9	24.6	— 4.1	99	nw.	18	8.0			10 n		nw.	inap.	inap.	light snow	A. Pritchard.
Benton, Fort, Montana	27.32	693.9	30.32	770.1	40.2	4.6	91	sw.	10	4.5			10 s		w.	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	27.88	708.1	29.86	758.4	25.0	— 3.9	88	nw.	12	5.4			10 n		nw.	0.03	0.8	heavy snow	B. O. Lenoir.
Block Island, Rhode Island	29.40	746.7	29.44	747.8	11.5	—11.4	70	nw.	42	18.8		0	6 ks		nw.	0.75	19.0	fair	J. T. Elker.
Boise City, Idaho	27.48	698.0	30.44	773.2	34.7	1.5	83	s.	1	0.4		0	0			0	0	clear	James Kenealy.
Boston, Massachusetts	29.10	739.1	29.26	743.2	4.0	—15.6	72	w.	26	11.6		0	0			0.63	16.0	clear	O. B. Cole.
Brownsville, Texas	30.09	764.3	30.15	765.8	53.0	11.7	66	ne.	6	2.7			10 s		s.	0	0	cloudy	John McGlone.
Buffalo, New York	29.02	737.1	29.81	757.2	— 6	—21.1	71	w.	32	14.3		0	7 s		w.	0.25	6.3	fair	Wm. Finn.
Buford, Fort, Dakota	27.74	704.6	29.95	760.7	31	— 0.6	88	w.	28	12.5		0	6 s		w.	0.01	0.3	fair	A. Schneider.
Cairo, Illinois	29.80	758.4	30.28	769.1	14.0	—10.0	72	nw.	12	5.4		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	30.02	762.5	30.22	767.6	51.3	10.7	62	se.	7	3.1		0	0			0	0	clear	J.H.Young.
Cape Henry, Virginia	29.87	758.7	29.89	759.2	21.0	— 6.1	70	w.	32	14.3		0	0			0.05	1.3	clear	A. K. Alderson.
Cape May, New Jersey	29.70	755.9	29.79	756.7	16.0	— 8.9	48	w.	48	21.5		0	6 k		w.	0	0	fair	W.E.Smith.
Cape Mendocino, California	29.47	748.5	30.17	766.3	44.2	6.8	93	n.			2		fg.			0	0	dense fog	A. P. Leavitt.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	38.0	3.3	49	n.	19	8.5		5 cs	0	sw.		0.07	1.8	fair	G. W. Davis.
Charleston, S. Carolina	30.01	762.2	30.07	763.8	29.0	— 1.7	84	nw.	13	5.8		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.17	740.9	30.06	763.5	20.8	— 6.2	58	nw.	6	2.7		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.30	745.7	30.22	767.6	12.0	—11.1	61	nw.	6	2.7		1 cs	0			inap.	inap.	clear	B. L. Goulding.
Cheyenne, Wyoming	23.96	608.6	30.23	767.8	20.8	— 6.2	70	nw.	20	8.9		0	0			0.01	0.3	clear	E. McGovern.
Chicago, Illinois	29.30	744.2	30.05	763.3	— 2.2	—19.0	42	w.	8	3.6		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	29.81	757.2	29.83	757.7	19.3	— 7.1	62	nw.	29	13.0		0	3 s		nw.	0	0	clear	C. F. Dickens
Cincinnati, Ohio	29.44	747.8	30.13	765.3	7.3	—13.7	57	w.	8	3.6		0	1 s			0.01	0.3	clear	L.Dunne.
Cleveland, Ohio	29.19	741.4	29.98	761.5	0.0	—17.8	83	w.	18	8.0			10 s		w.	0.05	1.3	cloudy	W.Line.
Columbus, Ohio	29.10	740.7	30.06	763.5	2.2	—16.6	66	sw.	10	4.5		0	0			0.03	0.8	clear	F.T. Williams
Concho, Fort, Texas	28.29	718.6	30.31	769.9	35.0	1.7	66	ne.	13	5.8			10 s		ne.	0	0	cloudy	C. E. King.
Custer, Fort, Montana	26.89	683.0	30.25	768.3	35	1.7	82	w	16	7.2		0	6 ks			0	0	fair	W.J.Daily.
Davenport, Iowa	29.35	745.5	30.05	763.3	4	—15.6	60	sw.	6	2.7		0	hz.			inap.	inap.	clear	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	30.25	768.3	30.9	— 0.6	56	n.	4	1.8		0	4 s			0	0	fair	J. Williams.
Dayton, Washington Ter'y	28.65	727.7	30.47	773.9	29.7	— 1.3	94	se.	2	0.9		0	0			0	0	clear	H.S.Blandford.
Deadwood, Dakota	25.20	641.6	30.18	766.6	28.0	— 2.2	77	sw.	7	3.1			10 n			0.10	2.5	light snow	G.Kingsbury.
Delaware Breakwater, Del.	29.78	750.4	29.80	756.9	16.0	— 8.9	74	nw.	37	16.5		0	3 k			0	0	clear	G.A.Martin.
Denver, Colorado	24.76	628.9	30.28	769.1	19.6	— 6.9	64	s.	2	0.9		0	0			0.04	1.0	clear	F. M. Neff.
Des Moines, Iowa	29.93	737.3	30.00	762.0	13	—10.6	61	sw.	8	3.6			10 s		sw.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.98	761.5	— 4.5	—20.3	85	w.	10	4.5		0	0			0	0	clear	N.B.Conger.
Dodge City, Kansas	27.47	697.7	30.21	767.3	24	— 4.4	80	sw.	15	6.7			10 s		sw.	inap.	inap.	cloudy	J.E.Lanouette.
Dubuque, Iowa	29.26	743.2	30.02	762.5	— 3.2	—19.6	71	sw.	4	1.8		0	7ks;s		w.;s.	0	0	fair	J. Harvey Smith
Duluth, Minnesota	29.05	737.9	29.80	758.4	— 1.0	—18.3	75	calm	0	0			10 s			0	0	cloudy	E.R.Bruce.
Eastport, Maine	28.70	729.0	28.77	730.7	24.5	— 4.2	94	w.	3	1.3			10n;fg		w.	0.73	18.5	heavy snow	D. C. Murphy.
Elliott, Fort, Texas	27.38	695.4	30.28	769.1	21	— 6.1	92	sw.	8	3.6		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.31	668.3	30.19	766.8	38.0	3.3	60	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.16	740.7	29.93	760.2	— 5.0	—20.6	79	w.	21	9.4		0	8 s		w.	0.32	8.1	cloudy	C. A. Shaw.
Escanaba, Michigan	29.21	741.9	29.93	760.2	—28.2	—33.4		sw.	2	0.9		0	sk.			0	0	dense smoke	L.M.Pindell.
Fort Smith, Arkansas	29.82	757.4	30.32	770.1	16.5	— 8.6	83	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Galveston, Texas	30.23	767.8	30.27	768.8	41.3	5.2	62	e.	18	8.0		0	4 ks		nw.	0	0	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.27	743.4	29.98	761.5	— 1.0	—18.3	75	e.	1	0.4			10 n		e.	0.18	4.6	light snow	Joseph E. Muelle
Grant, Fort, Arizona	25.25	641.3	30.11	764.8	35.8	2.1	42	ne.	7	3.1		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.92	760.0	29.92	760.0	28.0	— 2.2	84	nw.	24	10.7		3 k	0	nw.		0.18	4.6	clear	R. M. Crawford.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	26.06	661.9	30.41	772.4	35	1.7	100	calm	0	0			10 s			0.03	0.8	cloudy	S. W. Morrison.
Huron, Dakota	28.42	721 9	29.94	760.5	23.0	— 5.0	88	nw.	11	4.9			10 n			0.02	0.5	light snow	S. W. Glenn.
Indianapolis, Indiana	29.25	742.9	30.10	764.5	1.3	—17.1	80	w.	5	2.2		0	0			0.01	0.3	clear	C. F. R. Wappenhans.
Indianola, Texas	30.20	767.1	30.23	767.8	45.0	7.2	53	ne.	22	9.8			10 s			0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.07	763 8	30.12	765.0	36.8	2.7	50	nw.	5	2.2		5ck;cs	0	w.		0.21	5.3	fair	J. W. Smith.
Keokuk, Iowa	29.42	747.3	30.12	765.0	9.0	—12.8	66	sw.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29 96	761.0	29.98	761.5	64	17.8	78	n.	23	10.3			10 s		n.	0.13	3.3	cloudy	A. W. Browne.
Kittyhawk, North Carolina	29.91	759.7	29.93	760.2	23.0	— 5.0	74	nw.	22	9.8		0	0			0.35	8.9	clear	Wesley Blake.
Knoxville, Tennessee	29.11	739.4	30.19	766.8	9.4	—12.6	73	nw.	3	1.3		0	2 s			0.03	0.8	clear	J. A. Cody.
La Crosse, Wisconsin	29.09	738.9	29.93	760.2	— 3	—19.4	65	s.	10	4.5			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.18	741.2	30.13	765 3	14	—10.0	64	s.	3	1.3		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.60	751.8	30.47	773.9	32.0	0.0	78	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.97	761.2	30.30	769.6	23.5	— 4.7	73	n.	3	1.3		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.73	755.1	30.13	765.3	53.2	11.8	60	ne.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.55	750.6	30.14	765.5	13.8	—10.1	63	w	8	3.6		0	1 k		w.	0.01	0.3	clear	L. M Dey.
Lynchburg, Virginia	29.23	742.4	29.95	760.7	14.0	—10.0	46	nw.	7	3.1		0	0			0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.21	741.9	29.91	759.7	—14.0	—25.6	77	w.	8	3.6		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.96	761.0	29.97	761.2	25.3	— 3.7	49	nw.	26	11.6		5 c	0	w.		0.21	5.3	fair	William Daly.
Maginnis, Fort, Montana	25.57	649.5	30.32	770.1	36.4	2.4	49	w.	28	12.5		10 k	0	w.		0	0	cloudy	F. Burke.
Marquette, Michigan	29.12	739 6	29.90	759.4	—14.0	—25.6	32	w.	7	3.1		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.90	759.4	30.24	768.1	23.2	— 4.9	84	nw.	2	0.9		0	0			0	0	clear	D. T. Flannery
Milwaukee, Wisconsin	29.21	741.9	30.01	762.2	—10.9	—23.8	71	w.	9	4.0		0	0			0	0	clear	S. W. Rhode.
Mobile, Alabama	30.21	767.3	30.25	768.3	29	— 1.7	64	n.	4	1.8		0	0			0	0	clear	H. U. Jones.
Montgomery, Alabama	30.01	762.2	30.25	768.3	22.5	— 5.3	73	n.	10	4.5		0	0			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.74	730.0	29.84	757.9	11.3	—11.5	100	nw.	4	1.8			10 s		n.	0.05	1.3	cloudy	H. Bessant.
Mt. Washington, N. H.	22.47	570.7	29.09	738.9	—18.5	—28.1	44	nw.	70	31.2			fg.		nw.	0.16	4.1	dense fog	Edwd. A. Beals.
Nashville, Tennessee	29.62	752.3	30.22	767.6	10.5	—11.9	63	w.	4	1.8		0	0			inap.	inap.	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.39	746.5	29.51	749.5	2.3	—16.5	53	w.	18	8.0		0	0			0.51	13.0	clear	J. H. Sherman.
New London, Connecticut	29.42	747.3	29.47	748.5	5.0	—15.0	76	w	18	8.0		0	1 ks		w.	0.46	11.7	clear	J. G. Lynch.
New Orleans, Louisiana	30.19	766.8	30.25	768.3	30.0	2.2	53	ne.	7	3.1		0	hz.			0	0	clear	M. Herman.
New York, New York	29.46	748.3	29.65	753.1	5.0	—15.0	76	w.	20	8.9		0	1 s			0.26	6.6	clear	H. J. Penrod.
Norfolk, Virginia	29.85	758 2	29.88	758.9	23.5	— 4.7	73	nw.	13	5.8		0	0			0.03	0.8	clear	Wm. Davis.
North Platte, Nebraska	27.04	686.8	30.14	765.5	24.8	— 4.0	79	nw.	8	3.6		0	0			0	0	clear	J. J. Mc Lean.
Olympia, Washington Ter	30.28	769.1	30.32	770.1	33.0	0.6	88	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.76	730.5	30.02	762.5	13.5	—10.3	70	w.	8	3.6		0	0			0	0	clear	A. Pollak
Oswego, New York	29.20	741.7	29.55	750.6	8.0	—13.3	100	nw.	26	11.6			10 n			0.13	3.3	light snow	J. G. Linsley.
Palestine, Texas	29.75	755.6	30.33	770.4	32.4	0.2	65	ne.	7	3.1		0	3 s			0	0	clear	P. T. Jenkins.
Pensacola, Florida	30.20	767.1	30.23	767.8	29.4	— 1.4	54	n.	9	4.0		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.65	753.1	29 76	755.9	11.0	—11.7	70	nw.	18	8.0		0	0			0.06	1.5	clear	T. F. Townsend.
Pike's Peak, Colorado	17.48	444.0	30.20	767.1	— 8.0	—22.2	74	ne.	36	16.1		0	0			0.18	4.6	clear	H. Hall.
Pittsburg, Pennsylvania	29.11	739.4	29.97	761.2	1.2	—17.1	94	sw.	18	8.0		0	2 s		w.	0.01	0.3	clear	O. D. Stewart
Poplar River, Montana					18.9	— 7.3	73	nw.			4	1 c	1 s			inap.	inap.	clear	G. A. Garden.
Port Huron, Michigan	29.18	741.2	29.91	759.7	—13.9	—25.5	67	w.	7	3.1		0	0			0	0	clear	M. H. Perry
Portland, Maine	28.96	735.6	29.01	736.8	14.5	— 9.7	82	s	14	6.3			10 n		s.	1.98	50.3	light snow	W. W. Eichelberger.
Portland, Oregon	30.17	766.3	30.24	768.1	45.0	7.2	74	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Prescott, Arizona	24.88	631.9	30.24	768.1	26.0	— 3.3	86	w.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.23	742.4	29.26	743.2	8.0	—13.3	76	w	23	10.3		4 k	0	w.		0.51	13.0	fair	C. N. Kitchel.
Red Bluff, California	29.82	757.4	30.18	766.6	49	9.4	63	n.	5	2.2		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.98	761.5	30.24	768.1	46.5	8.1	88	e.	5	2.2		0	9 s		nw.	0	0	cloudy	L. G. Schultz.
Rochester, N. Y	28.96	735.6	29.67	753.6	— 5	—20.6	100	w.	41	18.3			10 n		w.	0.13	3.3	light snow	E. W. McGann.
Roseburg, Oregon	29.64	752.8	30.22	767.6	37	2.8	85	e.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	30.08	764.0	30.15	765.8	48.5	9.2	89	s.	8	3.6		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.55	750.6	30.21	767.3	14.1	— 9.9	64	nw.	10	4.5		0	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.29	769.4	30.33	770.4	7	—13.9	100	n.	23	10.3			10 s			0	0	cloudy	Fred. H. Clarke
St. Paul, Minnesota	28.91	734.3	29.84	757.9	— 4.0	—20.0	100	se.	5	2.2			10 n			inap.	inap.	light snow	P. F Lyons.
St. Vincent, Minnesota	28.85	732.8	29.82	757.4	8	—13.3	81	calm	0	0			10 n			0.01	0.3	light snow	C. B. Dilley.
Salt Lake City, Utah	25.88	657.3	30.44	773.2	31.4	— 0.3	59	n.	4	1.8		0	0			inap.	inap.	clear	J. Craig.
San Diego, California	30.01	762.2	30.08	764.0	47.3	8.5	72	ne.	2	0.9		0	0			0	0	clear	F. R. Day.
Sandusky, Ohio	29.28	743.7	30.00	762.0	1	—17.2	72	w.	15	6.7			10 s		w.	inap.	inap.	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.62	752.3	29.65	753 1	67	19.4	52	nw.			7	2 k	0	nw.		0.11	2.8	clear	V. P. Chappel.
Sanford, Florida	29.98	761.5	30.03	762.7	41.0	5.0	65	nw.	15	6.7			10 s		nw.	0.06	1.5	cloudy	J. B. Marbury
San Francisco, California	30.11	764.8	30.18	766.6	51.0	10.6	86	w.	3	1.3			fg.		w.	0	0	dense fog	N. Gorom.
Savannah, Georgia	30.02	762.5	30.11	764.8	27	— 2.8	54	n.	14	6 3		4ck;cs	0	w.		inap.	inap.	fair	R. M. Geddings.
Shaw, Fort, Montana	26.55	674.4	30.40	772.1	37	2.8	82	sw.	13	5.8		10 k	0			0.03	0.8	cloudy	A. L. Mathews.
Shreveport, Louisiana	30.10	764.5	30.28	769.1	29.6	— 1.3	50	n.	6	2.7			9 s		n.	0	0	cloudy	E. N. Meekins.
Sitka, Alaska	30.20	767.1	30.27	768.8	39	3.9	78	nw.	4	1.8		0	0			0	0	clear	F. W. Pickett.
Smithville North Carolina	29.97	761.2	30.01	762.2	26.4	— 3.1	86	nw.	10	4.5		1 cs	0			0.02	0.5	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.32	719.3	30.45	773.4	22.7	— 5.2	73	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.42	747.3	30.16	766.1	11.0	—11.7	64	w.	8	3.6		1 c	1 s	w.	w	0.01	0.3	clear	T. B. Jennings.
Stockton, Fort, Texas	27.07	687 6	30.20	767.1	35.0	1.7	66	s.	1	0.4			10 s			0	0	cloudy	J. W. Byram.
Tatoosh Id., Wash. Ter	30.18	766.6			45.0	7.2	85	e	18	8.0		0	0			0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.39	695.7	30.22	767.6	33	0.6	64	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.25	742.9	29.99	761.7	3	—16.1	81	w.	1	0.4			10 s		w.	inap.	inap	cloudy	A. Buell.
Unalaska, Alaska	29.55	750.6	29.57	751.1	39	3.9	89	s.	10	4.5			10 n			0.97	24.6	light rain	Samuel Applegate
Vicksburg, Mississippi	30.03	762.7	30.30	769.6	28	— 2.2	54	e	8	3.6		0	0			0	0	clear	C. Dill.
Washington, D. C.	29.79	756.7	29.91	759.7	9.6	—12.4	60	w.	20	8.9		0	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.10	662.9	30.22	767 6	22.5	— 5.3	88	w.	12	5.4			10 s		w	inap.	inap.	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	29.95	760.7	30.01	762.2	29.2	— 1.6	46	nw.	18	8.0		3 c	2 s	w.		0.16	4.1	fair	L. H. Albrecht.
Yankton, Dakota	28.58	725.9	30 00	762.0	21.8	— 5.7	72	nw.	11	4 9		4 c	0			0	0	fair	E. H. Thompson.
Yuma, Arizona	29.94	760.5	30.09	764.3	60.0	15.6	25	n.	18	8.0		0	0			0	0	clear	W. S Delano.
Sub-series.																			
Behringsland, Kamchatka	30.29	769.4	30.31	769.9	28.5	— 1.9	86	ne.	11	4.9		0	9 n					light snow	George Cheruick.
Bluefields, Nicaragua, C. A.					73	22.8		w.			1	0	4 ks		ne.	0.02	0.5	fair	W. H. Jackson.
Bogota, U. S. C.	22.00	558.9			56.3	13.5	87	sw.	4	2		2 ck	10 pk	n	se.	0.130	3.3		Joaquin Gomez.
Chimo, Fort, Ungava	29.55	750.6	29.70	754.4	1	—17.2	100	calm	0	0			10 n		ne.	0.07	1.8	light snow	L. M. Turner.
Kingston, Jamaica, W. I.			30.00	762.0	68.1	20.1	92	n.	1	0.4		0	1 s			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	76	24.4	86	n.			3	5 ck	5 k	e.	e.	0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.42	747.3	29.98	761.5	79	26.1	89	n.			1		10 ks		n.	0	0	cloudy	Francisco J. Olsner.
Rivas, Nicaragua, C. A.					74.6	23.7	88	e.			1	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	30.18	766.6	30.25	768.3	—21.0	—29.4		w.	13	5.8		4 k	2 s	w.	w.	0.03	0.8	cloudy	Fortescue & Wood
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.93	760.2	29.94	760.4	77.7	25.4	83	n.	3.8	1.7		0	5 k		n.	0	0	fair	P. Fasiani.
Naós, Bay of Panama	29.89	759.3	29.96	761.0	70.5	21.4	96	n.			4	0	1 k		n.	0	0	clear	Antonio Fabre.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
S. S. Alvo, Point Antonio, Jamaica, W. I	.....	.....	68	20.0	.....	var.	.....	.....	0–2	.....	6	.....	calm	3 h'r	3 h'r	.....	.....	
S. S. Alleghany, off Five Fathom Bank, Del†	29.74	755.4	18	— 7.8	.....	nw.	.....	.....	8	.....	0	.....	.....	8 h'r	8 h'r	.....	.....	clear.
S. S. Ailsa, N. 29° 01′, W. 74° 23′	.....	.....	65	18.3	85	w.	.....	.....	5	.....	10	.....	sw.	1 h'r	1 h'r	sm'h	.....	overcast.
Schr. Arthur Burton, Fernandina, Fla †	29.97	761.2	.....	.....	.....	nw.	.....	.....	3	.....	2	.....	nw.	4 h'r	4 h'r	.....	.....	fine.
S. S. Anchoria, N. 43° 46′, W. 45° 47′	.....	.....	.....	.....	.....	sw.	.....	.....	4	.....	10	.....	sw.	12 h'r	12 h'r	sli't	sw.	raining.
S. S. Canada, (Fr) N. 49° 45′, W. 13° 15′	29.64	752.8	50.0	10	.....	se.	.....	.....	4	.....	s.	.....	se.	o	o	h'vy	se.	covered.
S. S. Chalmette, N. 26° 52′, W. 83° 50′ *†	30.00	762.0	57	13.9	.....	nnw.	.....	.....	6	.....	10	.....	nnw.	o	o	mod.	.....	cloudy.
S. E. J. Spicer, Sandy Hook, N. J	29.65	753.1	11	—11.7	100	nw.	.....	.....	9	.....	10	.....	nw.	snow	snow	.....	.....	cloudy.
S. S. Frisia, N. 44° 57′, W. 38° 58′	.....	.....	50	10 0	.....	nw.	.....	.....	6	.....	10	.....	w.	1 h'r	1 h'r	long	w.	covered.
S. S. Grecian, Portland, Me	29.02	737.1	27	— 2.8	88	wnw.	.....	.....	4	.....	10	.....	.....	22 h'r	22 h'r	.....	.....	hazy.
Bg. George, N. 31° 03′. W 66° 50′	.....	.....	.....	.....	.....	w.	.....	.....	6	.....	10	.....	w.	3 h'r	3 h'r	cross	var.	rainy.
Bk. Idaho, N. 30° 48′, W. 78° 20′ *†	29.94	760.5	.....	.....	.....	nnw.	.....	.....	6	.....	8	.....	nnw.	2 h'r	2 h'r	r'gh	wnw.	cloudy.
S. S. Iowa, N. 50° 15′, W. 16° 36′ †	29.60	751.8	54	12.2	.....	se.	.....	.....	2	.....	9	.....	sse.	7 h'r	7 h'r	sm'h	wnw.	misty.
Schr. Jennie N. Huddell, Wilmington, N.C †	29.96	761.0	30	— 1.1	.....	nnw.	.....	.....	5	.....	2	.....	nw.	o	o	.....	.....	clear.
Bg. L. & W. Armstrong, N. 30° 10′, W. 58° 21′ †	29.96	761.0	.....	.....	.....	sw.	.....	.....	5	.....	1	.....	sw.	o	o	mod.	sw.	clear.
S. S. Lone Star, N. 35° 53′, W. 75° 13′ *†	29.82	757.4	26	— 3.3	.....	wnw.	.....	.....	6	.....	2	.....	nw.	2 h'r	2 h'r	r'gh	nnw.	clear.
S. S. Lessing, N. 40° 42′, W. 56° 31′	29.17	740.9	58	14.4	.....	wsw.	.....	.....	8	.....	10	.....	sw.	3 h'r	3 h'r	h'vy	sw.	misty.
S. S. Mentmore, N. 36° 45′. W. 74° 59′	.....	.....	.....	.....	.....	wnw.	.....	.....	9	.....	5	.....	wnw.	o	o	mod.	wnw.	fair.
S. S. Orinoco, Hamilton, Bermuda	.....	.....	64	17.8	.....	w.	.....	.....	4	.....	8	.....	w.	3 h'r	3 h'r	h'vy	wsw.	squally.
S. S. Oregon, (Br.) N. 44° 04′, W. 45° 58′	.....	.....	44	6.7	.....	w.	.....	.....	4	.....	10	.....	wnw.	6 h'r	6 h'r	mod.	wnw.	rainy.
S. S. Ohio, (Am) Philadelphia, Pa*†	29.70	754.4	8	—13.3	78	wnw.	.....	.....	6	.....	8	.....	wnw.	o	o	.....	.....	squally.
S. S. Pennsylvania, Philadelphia, Pa †	29.75	755.6	9	—12.8	100	nnw.	.....	.....	6	.....	2	.....	nnw.	o	o	.....	.....	clear.
S. S. Polynesian, N. 43° 06′, W. 47° 25′	29.63	752.6	42	5.6	.....	sw.	.....	.....	4	.....	9	.....	wsw.	4 h'r	4 h'r	mod.	wsw.	cloudy.
S. S. P. Caland, N. 43° 33′, W. 46° 39′	.....	.....	50	10.0	93	s.	.....	.....	5	.....	10	.....	ssw.	.....	.....	5	ssw.	drizzling.
S. S. Rhein, N. 42° 01′, W. 61° 56′	29.19	741.4	.....	.....	.....	w	.....	.....	9	.....	8	.....	w.	6 h'r	6 h'r	high	w	stormy.
S. S. Rhynland. New York, N. Y	.....	.....	6	—14.4	76	wnw.	.....	.....	5	.....	0	.....	.....	2 h'r	2 h'r	.....	.....	clear
S. S. Scandinavian, N. 43° 01′, W. 47° 23′	29.58	751.3	50	10.0	.....	sse.	.....	.....	5	.....	10	.....	s.	shr's	shr's	high	cross	overcast.
S. S. Switzerland, N. 41° 52′, W. 43° 35′ *†	29.73	755.1	.....	.....	.....	w.	.....	.....	3	.....	5	.....	w.	o	o	r'gh	wnw.	threatening
S. S. Valencia, N. 18° 32′. W. 69° 57′ †	30.03	762.7	79	26.1	82	ese.	.....	.....	3	.....	4	.....	n.	1 h'r	1 h'r	long	n.	fair.
S. S. Belgenland, N. 45° 16′, W. 36° 04′	.....	.....	51	10.6	93	wnw.	.....	.....	5	.....	.....	.....	wnw.	o	c	h'vy	w.	cloudy.
S. S. Pennland, N. 40° 59′, W. 61° 14′	.....	.....	45	7.2	.....	wsw.	.....	.....	8	.....	9	.....	w.	7 h'r	7 h'r	high	wsw.	cloudy.
S. S. State of Georgia, N. 47° 55 W. 37° 30′ †	29.28	743.7	51	10.6	.....	wnw.	.....	.....	5	.....	8	.....	wsw.	5 h'r	5 h'r	long	sw.	cloudy.
Schr. Adda Doane, N. 24° 30′, W. 74° 15′	.....	.....	.....	.....	.....	s.	.....	.....	3	.....	9	.....	ssw.	o	o	sm'h	.....	cloudy.
Bg. Alcira, N. 35° 53′, W. 72° 40′	.....	.....	46	7.8	.....	nw	.....	.....	6	.....	10	.....	nw.	10 h'r	10 h'r	h'vy	nw.	snowing.
S. S. British Prince, N. 50° 39′, W. 17° 02′	.....	.....	51	10.6	.....	ssw.	.....	.....	4	.....	6	.....	.....	5 h'r	5 h'r	long	w.	light fog.
S. S. Cienfuegos, St. Jago, Cuba, W.I	30.00	762.0	69	20.6	.....	calm	.....	.....	0	.....	3	.....	ne.	o	o	.....	.....	clear.
Bk. Chas. Stewart, Barcelona, Spain*†	29.62	752.3	.....	.....	.....	e.	.....	.....	5	.....	10	.....	e.	o	o	mod.	s.	cloudy.
Bk. Cato, Oporto, Portugal †	29.83	757.7	54	12.2	93	n.w.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. D. J. Foley, N. 34° 39′. W. 75° 00′*†	29.85	758.2	41	5.0	.....	nnw.	.....	.....	8	.....	7	.....	nnw.	.....	.....	cross	nnw.	squally.
S. S. Labrador, N. 45° 41′, W. 38° 45′	.....	.....	48.2	9	.....	w.	.....	.....	5	.....	6	.....	wsw.	20 mi	nutes	.....	n.	fair.
S. S. Pavonia, N. 45° 59′. W. 40° 23′	29.45	748.0	49	9.4	85	wsw.	.....	.....	6	.....	4	.....	w.	6 h'r	6 h'r	mod	wsw.	fair.
S. S. Rialto, N. 47° 08′. W. 39° 41′	.....	.....	49	9.4	.....	wnw.	.....	.....	6	.....	5?	.....	nw.	o	o	mod.	w.	cloudy.?
S. S. Vaderland, N. 38° 48′, W 66° 29′ †	29.46	748.3	41	5.0	.....	w.	.....	.....	8	.....	8	.....	w.	12 h'r	12 h'r	h'vy	wnw.	squally.
S. S. Wieland, N. 49° 30′, W. 18° 20′ *.	29.57	751.1	52	11.1	.....	ne.	.....	.....	2	.....	8	.....	ne.	o	o	short	se.	fair.
S. S. Weser, N. 46° 36′, W. 38° 05′	29.47	748 5	46.4	8.0	.....	nw.	.....	.....	6	.....	3	.....	wnw.	4 h'r	4 h'r	mod.	nw.	squally.
S. S. Westphalia, N 42° 38′, W. 48° 20′	.....	.....	50	10.0	86	sw.	.....	.....	6	.....	8	.....	sw.	5 h'r	5 h'r	mod.	w.	cloudy.
S. S. Main, N. 49° 48′, W. 21° 13′	29.57	751.1	51.8	11.0	.....	se.	.....	.....	5	.....	6	.....	se.	1 h'r	1 h'r	sm'h	se.	fair.
S. S. St. Laurent, Havre, France	.....	.....	59.0	15	.....	e.	.....	.....	4	.....	1	.....	e.	o	o	.....	.....	clear.
S. S. Nurnberg, Southampton Roads, Eng	29.90	759.4	64.4	18.0	.....	se.	.....	.....	2	.....	3	.....	se.	o	o	sm'h	.....	fair.
U. S. Navy Yard, Portsmouth, N. H *	29.08	738.6	7	—13.9	77	w.	22	9.8	.....	.....	2	.....	w.	o	o	.....	.....	fair.
U. S. S. Alliance, Basse Terre, St. Christophers, W. I	30.07	763.8	76	24.4	77	ene.	.....	.....	2	.....	2	.....	ene.	light	light	.....	.....	fair.
U. S. S. Kearsarge, N. 37° 41′, E. 16° 10′	29.93	760.2	59	15.0	82	se.	.....	.....	2	.....	5	.....	calm	.....	.....	sm'h	.....	fair.
U. S. S. Lancaster, Palermo, Sicily	29.85	758.2	63	17.2	67	ene.	.....	.....	1	.....	8	.....	.....	o	o	sm'h	.....	fair.
U. S. S. New Hampshire, Newport, R. I	29.40	746.7	7	—13.9	.....	wnw.	.....	.....	5	.....	0	.....	.....	.....	.....	mod.	.....	clear.
U. S. S. Portsmouth, N. 34° 51′, W. 70° 57′	29.70	754.4	50	10.0	100	wnw.	.....	.....	6	.....	8	.....	nw.	.....	.....	h'vy	nw.	fair.
U. S. S. Powhatan, Port Royal, S.C	30.09	764.3	30	— 1.1	78	nnw.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	fair.
U. S. S. Quinnebaug, Leghorn, Italy	29.76	755.9	51	10.6	86	ene.	.....	.....	2	.....	10	.....	nw.	.....	.....	sm'h	.....	raining.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.00	762.0	75	23.9	77	calm	.....	.....	0	.....	2	.....	calm	o	o	sm'h	.....	clear.
U. S. S. Trenton, Suez Canal, Egypt	30.12	765 0	70	21.1	40	n.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Vandalia, N. 11° 29′, W. 74° 12′	29.92	760.0	76	24.4	86	ene.	.....	.....	5	.....	2	.....	calm	.....	.....	mod.	.....	fair.
U. S. S. Yantic, Port Royal, S.C	30.12	765.0	34	1.1	7:	nw.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	.....	fair.
H. M. S. Alexandra, N. 35° 05′, E. 33° 57′	30.15	765.8	66	18.9	79	e.	.....	.....	1	.....	2	.....	e.	.....	.....	.....	.....	d. clouds.
H. M. S. Boadicea, Lagos, W. Africa	.....	.....	79	26.1	95	wnw.	.....	.....	1	.....	4	.....	.....	.....	.....	1	wnw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.64	752.8	67	19.4	74	s.	.....	.....	6	.....	9	wnw.	.....	.....	.....	.....	.....	raining.
H. M. S. Himalaya, N. 42° 50′, W. 59° 40′	28.92	734.6	45	7.2	76	wsw.	.....	.....	6	.....	9	s	.....	.....	.....	9	w.	squally.
H. M. S. Minotaur, Palermo, Sicily	29.82	757.4	61	16.1	74	nne.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.87	758.7	85.6	29.8	79.	ese.	.....	.....	1	.....	8	wsw.	s.	4 h'r	4 h'r	4	ese.	d. clouds.
S. S. Athos, N. 32° 40′, W. 74° 10′	.....	.....	.....	.....	.....	nw.	.....	.....	8	.....	5	.....	wnw.	o	o	cross	var.	clearing.
S. S. Llandaff City, N. 51° 36′, W. 6° 40′	.....	.....	45	7.2	.....	se.	.....	.....	6	.....	8	.....	.....	o	o	mod.	s.	cloudy.
S. S. Scythia, N. 51° 17′, W. 10° 52′	29.77	756.1	52	11.1	100	ese.	.....	.....	4	.....	10	.....	.....	5 h'r	5 h'r	mod.	ese.	hazy.
S. S. Nessmore, N. 42° 03′, W. 46° 41′	29.61	752.1	48	8.9	85	sw.	.....	.....	5	.....	4?	.....	sw.	4 h'r	4 h'r	long	nw.	cloudy.?
S. S. Archimedes, (Br) N. 38° 10′, W. 14° 19′	29.89	759.2	.....	.....	.....	wnw.	.....	.....	4	.....	9	.....	wsw.	1 h'r	1 h'r	long	nw.	overcast.
S. S. Olbers, N. 29° 31′, W. 18° 47′	30.21	767.3	62	16.7	88	nw.	.....	.....	3	.....	3	.....	nw.	.....	.....	4	nw.	clear.
S. S. Archimede, (It) N. 33° 47′, W. 43° 38′	.....	.....	68	20.0	.....	wsw.	.....	.....	3	.....	2	.....	wsw.	o	o	h'vy	nw.	clear.
S. S. Picqua, N. 41° 05′, W. 9° 38′ *†	29.80	756.9	55	12.8	87	n.	.....	.....	3	.....	.....	.....	.....	o	o	high	nw.	cloudy.
S. S. Dominion, N. 45° 10′, W. 39° 30′ *†	29.50	749.3	50	10.0	86	w.	.....	.....	4	.....	10	.....	wsw.	.....	.....	r'gh	w.	cloudy.
S. S. Texas, N. 42° 21′, W. 43° 28′ *†	29.72	754.9	50	10.0	100	wsw.	.....	.....	4	.....	10	.....	.....	o	o	mod.	w.	overcast.
S. S. Denmark, London, Eng †	29.93	760.2	44	6.7	92	e.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Erin, N. 40° 41′, W. 62° 28′ †	29.22	742.2	47	8.3	.....	w.	.....	.....	7	.....	7	.....	w.	8 h'r	8 h'r	high	w.	gale.
S. S. The Queen N. 51° 00′, W. 16° 12′	29.67	753.6	55	12.8	.....	sse.	.....	.....	1	.....	5	.....	s.	2 h'r	2 h'r	con.	w.	fine.
S. S. Strassburg, N. 9° 58′, W. 27° 47′	30.07	763.8	76.0	24.4	73	ne.	.....	.....	4	.....	6	.....	ne.	o	o	3	ne.	hazy.
S. S. City of Augusta, New York, N. Y	.....	.....	.....	.....	.....	nnw.	.....	.....	4	.....	10?	.....	nw.	o	o	.....	.....	clear.
S. S. Muriel, Trinidad, W.I	.....	.....	78	25.6	.....	calm	.....	.....	0	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. S. Waesland, Antwerp, Belgium	.....	.....	38	3.3	.....	n.	.....	.....	4	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Westernland, Antwerp, Belgum.	29.96	761.0	41	5.0	91	e.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. W. A. Scholten, Rotterdam, Holland	30.00	762.0	34.0	1.1	89	s.	.....	.....	1	.....	7	.....	s.	o	o	.....	.....	hazy.
S. S. State of Nevada, N. 40° 29′, W. 68° 14′*†	29.36	745.7	31	— 0.6	.....	w.	.....	.....	5	.....	10	.....	w.	light	light	light	w.	snowy.
S. S. Saxon, Philadelphia, Pa	.....	.....	11	—11.7	.....	w.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Celtic, Liverpool, Eng*†	29.99	761.7	42	5.6	.....	se.	.....	.....	4	.....	9	.....	s.	o	o	.....	.....	overcast.
S. S. Romano, off Beachy Head, Eng	.....	.....	44	6.7	.....	se.	.....	.....	2	.....	1	.....	se.	o	o	sm'h	.....	clear.
S. S. Salerno, N. 48° 45′, W. 16° 24′	.....	.....	60	15.6	.....	w.	.....	.....	1	.....	5	.....	wnw.	o	o	sm'h	wnw.	fine.
S. S. Antonio Lopez, Cadiz, Spain	.....	.....	58.5	14.7	79	w.	.....	.....	6	.....	4	.....	.....	8 h'r	8 h'r	.....	.....	fair.
Bgt. Achsah, N. 10° 43′, W. 61° 40′ †	30.01	762.2	78	25.6	.....	e.	.....	.....	1	.....	2	.....	e.	o	o	mod.	ene.	clear.
S. Armenia, N. 43° 08′, W. 37° — *	29.40	746'7	54	12.2	74	wnw.	.....	.....	7	.....	4	.....	wnw.	1 h'r	1 h'r	h'vy	w.	fair.
S. S. Bracadaile, N. 49° 50′, W. 6° 00′	.....	.....	52	11.1	.....	e.	.....	.....	2	.....	5?	.....	e.	o	o	sm'h	.....	clear.?
Bk. Benjamin Dickerman, Surinam, Dutch Guiana*†	30.00	762.0	79	26.1	.....	ne.	.....	.....	5	.....	4	.....	ne.	1 h'r	1 h'r	.....	.....	squally.
S. Cornelius, N. 44° 49′. W. 29° 31′*†	29.40	746.7	54.5	12.5	.....	wsw.	.....	.....	4	.....	3	.....	wsw.	2 h'r	2 h'r	long	wsw.	fair.
S. Dora, N. 39° 34′, W. 47° 50′ †	29.70	754.4	61.7	16.5	.....	sw.	.....	.....	6	.....	5	.....	sw.	o	o	sm'h	wnw.	gloomy.
S. David Stewart, Orchilla Island, Venezuela	.....	.....	76	24.4	.....	e.	.....	.....	3	.....	2	.....	ene.	o	o	.....	.....	
Schr. Edith R. Seward, N. 6° 17′, W. 57° 26′	.....	.....	82	27.8	.....	nne.	.....	.....	1	.....	4	.....	calm	o	o	.....	.....	clear.
Bk. Fred. W Carlon, Progreso roads, Mexico†	29.97	761.2	78	25.6	.....	n	.....	.....	6	.....	2	.....	nne.	o	o	r'gh	n.	clear.
Bk. Godeffroy, N. 19° 54′, W. 56° 19′	30.07	763.8	74.7	23.7	79	e.	.....	.....	5	.....	5	.....	e.	light	light	mod.	e.	fair.
Bk. George Davis, N. 49° 06′, W. 16° 00′ *†	29.54	750.3	.....	.....	.....	sw.	.....	.....	2	.....	.....	.....	sw.	o	o	mod.	nw.	cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Galeon, N. 48° 22′, W. 7° 51′†	29.80	756.9	48	8.9		sse.			3		9		sw.	0	0	long	n.	overcast.
S. Gatherer, N. 37° 54′, W. 66° —†.	29.50	749.3	46	7.8	92	w.			9		10		w.	2 h'r	2 h'r	high	var.	
Bk. Hattie G. McFarland, Aspinwall, Panama†	29.92	760.0	78	25.6		e.			1		4		e.	0	0	short	ne.	
Schr. Jas. Slater, N. 32° 12′, W. 55° 37′						sw.			6		5		sw.	0	0	mod.	sw.	threatening.
Bg. John Welsh, Jr., N. 26° 53′. W. 60° 21′ †	29.97	761 2				ssw.			6				sw.			chop	ssw.	
Schr. John Bird, N. 26° 42′, W. 68° 34′						sw.			5		3		sw.	0	0	mod.	sw	fair.
Schr. Jenny Greenbank, N. 34° 08′, W. 63° 39′*	29.58	751.3	67	19.4		w.			8		9		wnw.	4 h'r	4 h'r	r'gh	wsw.	cloudy.
Bg. Lillan. N 10° 35′, W. 58° 45′ †	29.98	761.5	81	27.2		e.			4		3			0	0	med.	ene.	fair.
S. S. Laurel, Key West, Fla †	29.96	761.0	65	18.3		nnw.			3		10		nnw.	⅔ hr	⅔ hr			cloudy.
Bg. L. F. Munson, off Matanzas, Cuba, W. I			72	22.2		n.			3		5		n.	0	0			squally.
S. S. Madrid, N. 36° 27′, W. 3° 13′†	29.79	756.7	60	15.6	94	w.			6		6		wnw.	hv'y	hv'y	rg'h	w.	showery.
Schr. Minnie A. Bonsall, Brunswick, Ga*†	30.06	763.5				wnw.			6					0	0			clear.
Schr. Maggie Abbott, Gonaives, Hayti, W I									0–4		4		ne.	0	0			clear.
Schr. Norena. Arroyo, Porto Rico, W. I†	30.01	762.2				e.			3		3		ene.	1 h'r	1 h'r	sm'h		showery.
Bk. Orpheus, N. 46° 56′, W. 35° 17′*	29.24	742.7	53	11.7		calm			0		10					mod.	wnw.	raining.
Bk. Sunbeam, N. 41° 12′, W 28° 53′ *†	29.55	750.6	62	16.7	88	sw.			6		9		w.	3 h'r	3 h'r	r'gh	sw.	cloudy.
S. St. David. N 37° 03′, W. 40° 13′			68.3	20.2	84	w.			7		4		var.	3 h'r	3 h'r	h'vy	wnw.	hazy.
S. Stephen D. Horton, Antwerp, Belgium †	29.95	760.7				ne.			5		6		ene.	0	0			fair.
Bk. Tuck Sing, N. 34° 39′, W. 70° 24′						wnw.			6		10			2 h'r	2 h'r	hv'y	var.	cloudy.
Bk. Tros, N. 50° 12′, W 8° 44′ *†	29.84	757.9	48	8.9		ese.			6		2		sse.			mod.	sse.	light rain.
S. Vincenzo Accame, N. 37° 24′, W. 29° 44′†	29.82	757.3	62.6	17		wsw.			6		7		wsw.	1 h'r	1 h'r	h'vy	wsw.	stormy.
Bk. Winifred, N. 4° 48′, W. 45° 30′						nne.								2 h'r	2 h'r		ne	
Bk Western Chief, N. 39° 26′, W. 54° 02′						wsw.			9		8 k		wsw.			9	w.	raining.
S. S. City of Alexandria, Progreso roads, C. A*†	29.98	761.5	70	21.1		n.			4								n.	d. clouds
S. Frank N. Thayer, N. 35° 21′. W. 50° 15′*	29.88	758.9	68	20.0	79	sw.			6	ck	5		sw.	0	0	mod.	wsw.	hazy.
District No. 2—South Atlantic.																		
U. S. S. Pinta, S 40° 57′, W. 60° 33′	29.16	740.7	68	20.0	84	wsw.			4		2		w.			mod.	wnw.	clear.
H. M. S. Amethyst, S. 46° 59′, W. 63° 07′	29.38	746.2	59.2	15.1	74	wsw.			5		4	sw.				3	wsw.	squally
H. M. S. Opal, Simons Bay, Cape Colony	29.95	760.7				ese.			6		3	se.						d. clouds.
H. M. S. Sylvia, S 39° 33′, W. 59° 04′	29.79	756.7	67.5	19.7	90	nnw.			4		9	calm				3	nne.	d. clouds.
H. P. M. S. Tejo, Noki, Guinea	29.94	760.5	86.9	30.5	85	calm			0		7			0	0			d. clouds.
H. P. M. S. Bengo, S. 0° 15′, W. 12° 10′	29.93	760.2	82.8	28.2	80	wsw.			1		8		s.	½ h'r	½ h'r		s.	threatening
S. S. Hevelius, Buenos Ayres, La Plata*†	30.10	764.5	73	22.8		wnw.			3		9?		wsw.	0	0			clear.?
S. S. Leipzig, S. 18° 26′. W. 38° 44′*	30.08	764.0	82.0	27.8	93	e.			3		2		e.	0	0	sm'h	var.	fair.
Bk. Adelaide, S. 22° 51′, W. 40° 17′*†	30.11	764.8				wnw.			2		6		nne.	0	0	r'gh	sse.	fair.
Bk. Celestina, S. 32° 14′, W 48° 44′*†	30.24	768.1				ne.			5		6		ene.	0	0	h'vy	s.	fair.
S. S. George S. Homer, S. 6° 54′, W. 32° 48′*†	30.06	763.5				ese.			1		1		se.	2 h'r	2 h'r	sm'h	e.	fine.
S. Grecian, S. 19° 00′, W. 30° 35′†	30.18	766.6	81	27.2	74	ene.			5		3		ene.	0	0	mod.	e.	clear.
S. Henry Failing, S. 13° 11′, W. 29° 29′*†	29.98	761.5	81	27.2	100	ene.			6		4		e.	0	0	mod.	ese.	clear.
Bk. Horace Scudder, Cabinda, Guinea *†	30.10	764.5	88	31.1		wsw.			4		5		wsw.	0	0			fair.
S. Ismir, S. 43° 07′, W. 45° 43′ *†	30.00	762.0				nnw.			5		5		nnw.	0	0	mod.	nnw.	fine.
Bkt. Levanter, Montevideo, Uruguay*	30.03	762.7	68	20.0		nne.			4		0			0	0			clear.
S. S. Mendoza, S. 36° 33′, W. 54° 39′ †.	30.15	765.8				ene.			5		5		n.	0	0	rg'h	ene.	fair.
S. S. Tenlers, S. 16° 50′, W. 34° 20′	30.03	762.7	81.9	27.7	73	ne.			6	c	5 ks	nnw.		0	0		ene.	d. clouds.
District No. 3—North Pacific.																		
U. S. S. Alert, Shanghai, China	30.32	770.1	50	10.0	93	ne.			2		0							clear.
U. S. S. Essex, Canton, China	30.07	763.8	65	18.3	100	sse.			1		2							clear.
U. S. S. Hartford, Honolulu, Sandwich Islands	29.97	761.2	74	23.3	90	n.			1		0			0	0			clear
U. S. S. Juniata, off Ross Island, Corea	30.39	771.9	38	3.3	90	calm			0		0			0	0	sm'h		clear.
U. S. S. Monocacy, N. 22° 50′, E 116° 26′	30.13	765.3	60	15.6	88	ese.			6		5		se.			mod.	ese.	fair.
U. S. S. Palos, Tientsin, China	30.65	778.5	30	— 1.1		se.			1		5		calm					fair.
H. M. S. Audacious, Hong Kong, China	30.05	763.3	65	18.3	78	e.			1		2	ene.						blue sky.
H. M. S. Cleopatra, N. 22° 16′, E. 114° 10′	30.06	763.5	65	18.3	89	e.			2		9				1			d. clouds.
H. M. S. Champion, Shanghai, China	30.28	769.1	48	8.9	92	e.			1		0							blue sky.
H. M. S. Flying Fish, N. 25° 25′, E. 119° 42′	30.16	766.1	56.8	13.8	84	nne.			3–5		10				2		ne.	squally.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.79	756.7	83.5	28.6	71	s.			1		3	sse.						d. clouds.
H. P. M S. Tamega, Macao, China	30.09	764.2	66.2	19.0	80	calm			0		0			0	0			blue sky.
S. S. Oregon, San Francisco, Cal†	30.18	766.6	50	10.0	86	calm			0									hazy.
S. S. Alameda, Honolulu, Sandwich Islands †	29.99	761.7	69	20.6		ne.			2		1		ne.	0	0			clear.
S. S. Ancon, San Pedro, Cal†	30.04	763.0	54	12.2	74	nw.			1		0			0	0			clear.
S. S. City of Chester, Hookton, Cal†	30.21	767.3	48	8.9	92	calm			0		10			0	0			
S. S. Queen of the Pacific, San Francisco, Cal	30.11	764.8	50	10.0	93	sw.			1		2		w.	0	0			clear.
S. S. State of California, N. 37° 48′, W. 122° 50′ †	30.22	767.6	49	9.4	93	calm			0		0					sm'h	w.	clear.
S. S. Eureka, N. 49° 41′, W. 124° 44′			42	5.6	91	calm			0		0			0	0	sm'h		clear.
S S. City of Pekin, N. 30° 09′, W. 157° 50′ †	30.02	762.5	60	15.6	76	w.			3							h'vy	w.	clear.
S. S. City of Rio de Janeiro, Yokahama, Japan †	30.28	769.1				ne.			6		5							
S. S City of Sydney, N. 6° 39′, W. 164° 00′ *†	29.84	757.9	78	25.6	86	ne.			2		8 ku		ne.			mod.	nw.	cloudy.
S. S. Colima, Panama, Panama†	30.01	762.2	74	23.3	86	nw.			2		2		calm	0	0			clear.
S. S. San Blas, N. 32° 41′, W. 118° 36′†.	30.11	764.8	56	13.3	94	calm			0		4		wnw.	0	0	sm'h	nw.	smoky.
S. S. San Jose, N. 13° 29′, W 89° 19 *†	29.99	761.7	78	25.6		nne.			4		2		ne.	0	0	small	sw.	clear.
S. S. Benalder, Nagasaki, Japan*	30.30	769.6	61	16.1	82	nw.			3–4		0			0	0	sm'h		clear.
S. St. Francis, N. 41° 00′, W. 132° 45′			54	12.2	67	se.			2		8		se.	0	0	long	sw.	cloudy.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, S. 17° 35′, W. 71° 38′ *	29.99	761.7	70	21.1	95	ese.			2		0					long	ssw.	clear.
H. M. S. Constance, S. 26° 10′, W. 92° 25′	30.23	767.8	73	22.8	85	ese.			2		2	se.				1	ese.	d. clouds.
H. M. S. Espiegle, S. 42° 14′, E. 170° 10′	30.28	769.1	57	13.9	75	calm			0		0		calm	0	0	2	sw.	blue sky.
H. M. S. Lark. S. 36° 50′, E. 174° 48′	30.23	768.3	58.3	14.6	82	ssw.			1		0					sm'h		blue sky.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	29.62	752.3	56	14.4	70	nw.			1–3		0							blue sky.
S. S. Zealandia, N. 34° 01′, E. 158° 52′	30.11	764.8	75	23.9	86	ne.			4		0			0	0	mod	ne.	clear.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.91	759.7	63	17.2		calm			0		0					sm'h		
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.88	758.9	75	23.9	68	ne.			2		9	calm						d. clouds.
H.M. S. Tourmaline, Nassi-Be, Madagascar	29.84	757.9	84	28.9	91	w.			1		2							d. clouds.
S. Orcadia, S. 41° 33′, E. 41° 30′*	29.90	759.4				n.			6		10		nw.	0	0	mod.	sw.	covered.

International Chart I. February 29, 1884. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

FEBRUARY, 1884.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for February, 1884. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.10	764.4	65.7	18.7	80.2	5	.....	5	2	2	12	1	2	.....	.....	.....	3	0.85	21.5
Algiers	N. 36 47	E. 3 05	0.20 p.m.	72	22	.....	.....	30.11	764.8	62.6	17.0	65.5	2	2	7	6	3	2	2	4	1	.....	.....	5	1.49	37.8
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	30.13	765.3	62.2	16.8	76.0	3	8	2	.....	1	1	6	8	.....	.....	.....	3	0.31	8.0
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	30.10	766.1	56.5	13.6	67.1	5	12	5	3	.....	.....	1	3	.....	.....	.....	3	0	0
Gerlville	N. 33 45	E. 1 10	0.13 p.m.	4281	1305	.....	.....	.....	.....	55.2	12.9	38.7	4	7	2	6	3	6	1	.....	.....	.....	.....	2	0.47	12.0
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2454	748	.....	.....	30.25	768.3	65.3	18.5	79.9	1	6	2	1	4	4	1	1	9	.....	.....	1	1.48	37.7
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	30.24	768.0	63.5	17.5	69.6	.....	.....	3	1	.....	.....	5	1	19	.....	.....	2	1.11	28.2
AUSTRALIAN.																										
Adelaide	S. 34 57	E. 138 35	9.22 p.m.	140	42	.....	.....	30.01	762.2	67.4	19.7	52.4	.....	.....	.....	1	6	5	6	2	9	.....	.....	4	0.12	3.0
Hobart Town	S. 42 53	E. 147 20	9.57 p.m.	190	58	29.73a	755.1a	29.93a	760.2a	56.3c	13.5c	79.0c	4	2	3	4	11	3	.....	.....	2	.....	.....	6a	1.07a	a27.2
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.90	759.4	29.99	761.7	61.8	16.6	78.0	1	.....	3	6	8	7	1	3	.....	.....	.....	5	1.94	49.3
AUSTRIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.61	752.0	30.12	765.0	42.6	5.9	54.5	.....	.....	1	5	4	2	6	11	.....	.....	.....	5	0.94	23.8
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.33	744.9	30.12	765.c	39.2	4.0	76.1	1	1	5	13	.....	.....	3	6	.....	.....	.....	7	0.54	13.7
Eperies	N. 48 58	E. 21 15	1.33 p.m.	846	258	29.25	742.9	30.15	765.9	34.0	1.1	80.9	5	.....	.....	.....	4	4	.....	.....	16	.....	.....	8	0.30	7.7
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.89	733.7	30.18	766.6	40.3	4.6	95.3	.....	2	5	9	9	2	2	.....	.....	.....	.....	4	0.70	17.7
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.68	728.4	30.15	765.8	41.5	5.3	65.0	1	6	5	2	4	9	2	.....	.....	.....	.....	4	1.08	27.3
Kremsmunster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.74	730.1	30.13	765.4	38.3	3.5	79.6	1	2	3	4	.....	.....	9	5	5	.....	.....	6	0.44	11.3
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	29.10	739.2	30.13	765.3	36.7	2.6	77.4	4	4	1	.....	5	8	2	5	.....	.....	.....	8	2.48	63.1
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	30.05	763.3	30.17	766.3	48.0	8.9	76.2	.....	4	10	2	1	4	3	4	1	.....	.....	4	0.33	8.4
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.65	753.0	30.14	765.5	40.5	4.7	70.0	5	2	5	5	5	2	4	1	.....	.....	.....	5	1.11	28.1
Szegedin	N. 46 15	E. 20 10	1.29 p.m.	279	87	29.87	758.7	30.16	766.0	43.0	6.1	66.2	3	4	2	3	9	1	2	.....	5	.....	.....	5	0.40	10.2
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	30.11	764.7	30.21	767.2	45.9	7.7	72.0	1	5	2	2	.....	.....	1	3	15	.....	.....	6	0.65	16.4
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.37	745.9	30.11	764.7	38.5	3.6	61.9	1	5	5	.....	1	12	.....	.....	3	.....	.....	5	0.26	6.6
BELGIAN																										
Arlon	N. 49 40	E. 5 48	0.32 p.m.	?	?	28.63	727.1	30.06	763.4	39.6	4.2	92.6	.....	.	1	12	3	6	6	1	.....	.....	.....	3	4.42	112.4
Brussels	N. 50 51	E. 4 22	0.26 p.m.	187	57	29.81	757.2	30.02	762.4	44.1	6.7	76.2	1	.....	3	8	8	2	5	2	.....	.....	.....	6	1.69	42.9
Furnes	N. 51 04	E. 2 40	0.19 p.m.	20	6	29.96	760.9	29.98	761.5	45.3	7.4	79.9	1	2	3	6	9	1	4	3	.....	.....	.....	7	1.47	37.3
Mae eyck	N. 51 06	E. 5 48	0.32 p.m.	115	35	29.95	700.6	30.07	763.7	45.9	7.7	73.4	.....	2	7	6	4	4	5	1	.....	.....	.....	7	2.41	61.1
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.68	753.9	29.78	756.4	41.7	5.4	74.8	1	1	3	3	6	14	.....	1	.....	.....	.....	6	1.96	49.8
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.81	757.2	43.4	6.3	76.5	1	1	2	7	2	6	10	.....	.....	.....	.....	7	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.28	743.7	29.83	757.7	41.4	5.2	80.3	2	1	2	3	9	6	5	1	.....	.....	.....	9	.....	.....
Bradford a	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.42	747.3	29.82	757.4	43.0	6.1	78.5	.....	3	3	8	3	6	3	2	.....	.....	.....	8	3.13	79.5
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	30.03	762.7	30.06	763.5	79.4	26.3	70.2	.....	.....	.....	.....	.....	.....	11	18	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	.....	.....	.....	.....	43.2	6.2	80.4	2	2	3	10	2	6	2	2	.....	.....	.....	7	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	160	49	29.76	755.9	29.94	760.5	45.4	7.4	77.2	1	.....	6	8	4	1	5	.....	4	.....	.....	8	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.67b	753.6b	29.91b	759.7b	47.3	8.5	81.8	2	.....	2	9	6	3	5	2	.....	.....	.....	8	.....	.....
Fort Napier m	S. 30 00	E. 31 00	2.12 p.m.	2205	672	27.57	700.3	29.88	758.9	78.1	25.6	64.6	1	2	1	.....	.....	3	2	7	.....	.....	.....	5	.....	.....
Freetown n	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.71	754.6	29.94	760.5	83.2	28.4	78.8	3	1	.....	3	2	1	1	4	.....	.....	.....	2	.....	.....
Galway	N. 53 15	W. 9 03	11.32 a.m.	32	10	29.64	752.8	29.68	753.9	43.7	6.5	86.7	1	.....	1	9	3	10	3	2	.....	.....	.....	7	4.16	105.7
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	30.01	762.2	30.09	764.3	60.6	15.9	90.6	.....	9	8	.....	.....	1	10	1	.....	.....	.....	6	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.75	755.6	29.93	760.2	45.2	7.3	75.7	2	2	2	10	4	1	6	2	.....	.....	.....	7	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.62	752.3	29.92	760.0	46.4	8.0	86.3	1	1	1	7	7	4	6	2	.....	.....	.....	8	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	29.89	759.2	29.93	760.2	44.8	7.1	72.1a	1	3	1	10	5	.....	6	3	.....	.....	.....	7	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.62	752.3	29.87	758.7	44.3	6.8	75.1	2	1	2	15	1	2	6	.....	.....	.....	.....	8	.....	.....
Malta	N. 36 00	E. 14 30	1.06 p.m.	70	21	30.05	763.3	30.12	765.0	60.4	15.8	76.8	1	4	2	8	1	4	2	7	.....	.....	.....	4	.....	.....
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	30.12	765.0	30.17	766.3	72.1	22.3	76.8	1	2	.....	2	8	5	5	0	.....	.....	.....	4	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.67	753.6	29.90	759.4	44.6	7.0	76.5	2	3	.....	8	6	2	6	1	1	.....	.....	7	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	29.79	756.7	29.88	758.9	46.9	8.3	84.6	.....	1	2	5	6	2	7	2	4	.....	.....	9	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	29.56	750.8	29.66	753.4	41.2	5.1	73.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Scutari Cemet'y	N 41 00	E. 29 03	2 04 p.m.	60	18	30.07	763.8	30.14	765.5	46.1	7.8	64.6	3	.....	.....	8	2	.....	1	14	1	.....	.....	6	.....	.....
Sheffield	N. 53 23	W. 1 28	0 02 p.m.	260	79	29.58	751.3	29.86	758.4	44.8	7.1	75.0	.....	2	1	10	5	3	3	2	3	.....	.....	6	.....	.....
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.75	755.6	29.78	756.4	43.7	6.5	87.3	1	3	1	6	9	2	7	.....	.....	.....	.....	6	2.89	73.4
Stonyhurst m	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	29.90	759.4	42.4	5.8	80.6	1	.....	4	2	7	.....	2	.....	.....	.....	.....	9	2.48	63.0
Strathfield	N. 51 17	W. 0 53	0.04 p.m.	197	60	.....	.....	.....	.....	45.5	7.5	78.1	.....	4	4	10	1	7	1	2	.....	.....	.....	7	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m	23	7	29.67	753.6	29.70	754.4	47.8	8.8	76.6	2	1	3	9	4	6	3	1	.....	.....	.....	9	.....	.....
Sub-series.																										
Gozo	N. 36 01	E. 14 16	1.05 p.m.	364	111	29.77	756.1	30.15	765.9	58.3	14.6	71.1	.....	3	4	9	2	1	9	1	.....	3392	5458	6	0.48	12.2
CANADIAN.																										
Bathurst	N. 47 39	W. 65 43	7.45 a.m.	35	11	30.14b	765.5b	30.16b	761.1b	1.3	-17.1	.....	.....	2	1	1	.....	1	.....	.....	24	.....	.....	7	3.28	83.3
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	30.05	763.3	30.10	764.5	16.0	—8.9	90.4	4	7	5	1	1	3	5	2	1	6248	10055	7	4.28	108.7
Chatham*	N. 47 03	W. 65 29	7.45 a.m.	56	17	30.07	763.8	30.14	765.5	6.8	-14.0	95.7b	2	4	8	5	.....	3	2	2	3	3448	5549	6	4.30	109.2
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	29.80	756.9	30.04	763.0	15.1	—9.4	93.0	.....	8	3	.....	1	2	10	5	.....	.....	.....	8	4.10	104.1
Dalhousie	N. 48 04	W. 66 22	7.32 a.m.	45	14	30.09	764.3	30.14	765.5	5.5	-14.7	.....	.....	1	15	.....	.....	1	7	1	4	.....	.....	5	3.90	99.1
Father Point*	N. 48 31	W. 68 28	7.34 a.m.	20	6	30.08	764.0	30.10	764.5	6.5	-14.2	83.6	1	7	.....	2	7	1	3	5	3	.....	.....	7	4.04	102.6
Fort Garry*	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.27	743.4	30.24	768.1	-17.0	-27.2	90.7	5	8	.....	3	8	.....	1	.....	4	5838	9395	4	1.34	34.0
Fredericton	N. 45 57	W. 66 38	7.41 a.m.	59	18	30.08	764.0	30.15	765.8	11.6	-11.3	90.2	1	5	2	.....	1	1	4	4	11	.....	.....	7	6.26	159.0
Grand Manan	N. 44 46	W. 66 45	7.41 a.m.	49	15	30.06	763.5	30.11	764.8	24.4	—4.2	85.3	4	3	3	1	4	4	.....	7	3	9758	15704	6	6.16	156.5
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	29.89	759.2	30.06	763.5	20.1	—6.6	90.2	1	4	4	1	1	3	1	2	12	.....	.....	9	.....	.....
Halifax*	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.98	761.5	30.12	765.0	23.9	—4.5	91.7	5	3	8	4	2	1	5	1	.....	.....	.....	7	6.33	160.8
Hamilton a	N. 43 16	W. 79 53	6.49 a.m.	372	113	29.57	751.1	30.00	762.0	23.8	—4.6	87.7	1	.....	2	14	.....	.....	2	8	1	.....	.....	8	2.94	74.7
Kingston*	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.71	754.6	30.06	763.5	19.0	—7.2	86.0	2	6	4	2	2	3	.....	5	5	d4837	d7784	8	2.71	68.8
Little Glace Bay	N. 46 12	W. 59 58	8.08 a.m.	34	10	29.96	761.5	30.02	762.5	22.7	—5.2	93.1	2	5	6	5	1	2	3	5	.....	.....	.....	6	1.10	27.9
London	N. 43 00	W. 81 15	6.43 a.m.	832	254	29.10	739.1	30.06	763.5	21.5	—5.8	92.3	4	.....	5	1	3	1	2	3	10	.....	.....	9	4.69	119.1
Medicine Hat	N. 50 01	W. 110 37	4.46 a.m.	2136	651	27.61	701.3	30.27	768.8	—2.3	-19.1	87.2	4	8	1	5	4	.....	1	5	1	5892	9482	8	0.50	12.7
Minnedosa*	N. 50 13	W. 99 48	5.29 a.m.	1796	545	30.03	762.7	30.26	768.6	—1.6	-18.7	99.1a	5	17	4	1	.....	.....	1	1	.....	.....	.....	3	0.48	12.2
Montreal*	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.84	757.9	30.06	763.5	15.0	—9.4	88.0	2	2	5	4	4	2	4	5	1	.....	.....	8	4.84	122.9
Ottawa	N. 45 26	W. 75 41	7.05 a.m.	200	61	29.80	756.9	30.04	763.0	11.0	-11.7	90.3	2	6	7	.....	1	.....	7	6	.....	.....	.....	3	0.99	25.1
Parry Sound*	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.30	744.2	30.05	763.3	11.3	-11.5	79.0	4	1	7	.....	3	3	9	.....	2	6978	11230	7	2.06	52.3
Peterboro	N. 44 17	W. 78 18	6.54 a.m.	675	206	29.23	742.4	30.03	762.7	17.4	—8.1	78.1	1	4	5	8	.....	2	3	4	2	.....	.....	8	2.31	58.7
Port Arthur	N. 48 27	W. 89 12	6.11 a.m.	642	196	29.37	746.0	30.22	767.6	—0.1	-17.8	82.5	4	4	4	4	7	1	.....	2	3	2974	4690	4	1.01	25.7
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.31	744.5	30.05	763.3	22.8	—5.1	86.5	3	4	4	5	2	.....	.....	5	6	5735	9229	8	3.50	88.9
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.36	745.7	30.05	763.3	23.2	—4.9	89.1	1	1	9	1	1	.....	10	6	.....	.....	.....	7	3.15	80.0
Qu Appelle	N. 50 44	W. 103 42	5.13 a.m.	2115	646	27.70	703.6	30.30	769.6	—1.3	-18.5	.....	1	6	4	5	.....	.....	1	.....	12	.....	.....	3	0.50	12.7
Quebec*	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.69	754.1	30.04	763.0	10.6	-11.9	85.3	7	.....	2	5	1	.....	1	4	9	.....	.....	8	4.55	115.6
Rockliffe*	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.54	750.3	30.04	763.0	5.6	-14.7	81.5	.....	5	4	.....	.....	7	5	1	7	.....	.....	7	3.59	91.2
Saint Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	30.04	763.0	30.10	764.5	20.9	—6.2	91.4	3	9	1	.....	2	4	2	6	2	.....	.....	5	6.11	155.2
Saint John, N.B.	N. 45 17	W. 66 03	7.44 a.m.	130	40	29.96	761.0	30.12	765.0	12.1	-11.1	92.6	7	4	1	3	2	3	2	4	3	.....	.....	7	7.42	188.8
Saint Pierre b	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	29.99	761.8	24.3	—4.3	.....	3	8	8	3	4	1	.....	2	.....	.....	.....	.....	.....	.....
Saugeen*	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.26	743.2	30.02	762.5	18.0	—7.8	89.3	7	2	4	.....	2	4	2	5	3	7614	12253	10	2.94	74.7
Stratford	N. 43 23	W. 81 00	6.44 a.m.	1186	361	28.68	728.5	30.07	763.8	18.7	—7.4	85.0	.....	1	6	2	1	2	.....	1	16	.....	.....	9	4.70	119.4

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for February, 1884. Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0–10	Total Precipitation. Inch.	Total Precipitation. Mill.
CANADIAN.—Con.	° ′	° ′																								
Sydney*	N. 46 08	W. 60 10	8.07 a.m.	37	11	30.01	762.2	30.05	763.3	19.4	—7.0	89.3	3	4	4	3	2	2	.....	2	9	6932	11156	7	5.72	145.3
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.65	753.1	30.06	763.5	21.8	—5.7	86.9	5	2	8	.....	1	4	5	4	.....	7940	12779	8	3.27	83.1
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	28.94	735.1	30.04	763.0	20.5	—6.4	90.0	1	2	7	5	3	3	1	6	1	.....	.....	9	1.95	49.5
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	30.01	762.2	30.08	764.0	27.6	—2.4	82.5	4	5	1	1	3	3	8	2	2	.....	.....	7	7.46	189.5
CAPE COLONY																										
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	29.99	761.7	30.02	762.5	72.4	22.4	a84.6	.....	.....	.....	14	2	4	.....	8	1	.....	.....	3	1.05	26.7
Cape Town	S. 34 02	E. 18 29	1.22 p.m.	?	?	29.80	756.9	.....	.....	76.8	24.9	49.7	3	2	.....	.....	6	8	.....	10	.....	.....	.....	2	0.42	10.7
Springbok	S. 29 45	E. 17 43	1.19 p.m.	?	?	27.83	706.9	.....	.....	84.1	28.9	43.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
CHILIAN.																										
Coquimbo	S. 29 56	W. 71 21	7.22 a.m.	72	22	29.89	759.2	29.97	761.1	62.6	17.0	88.2	11	3	1	7	1	.....	2	4	.....	.....	.....	8	.....	.....
Iquique*a*	S. 20 12	W. 70 11	7.27 a.m.	26	8	29.89	759.1	29.91	759.8	70.0	21.1	79.5	.....	4	1	22	1	.....	.....	.....	.....	.....	.....	2	.....	.....
Niebla	S. 39 53	W. 73 25	7.14 a.m.	98	30	29.59	751.6	29.70	754.3	57.2	14.0	79.5	1	3	3	.....	.....	.....	22	.....	.....	.....	.....	3	1.60	40.6
Punta Caldera	S. 27 03	W. 70 53	7.25 a.m.	82	25	29.87	758.6	29.95	760.8	66.4	19.1	81.7	.....	6	.....	10	.....	5	2	6	.....	.....	.....	8	.....	.....
Punta Corona	S. 41 47	W. 73 53	7.12 a.m.	174	53	29.91	759.6	30.09	764.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	4.21	107.0
Valparaiso	S. 33 02	W. 71 39	7.22 a.m.	131	40	29.82	757.3	29.95	760.8	63.0*a*	17.2*a*	86.4*a*	5	.....	2	11	7	3	1	.....	.....	.....	.....	4	.....	.....
CHINESE. (*Sub*).																										
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	22	7	30.34	770.6	30.36	771.2	36.0	2.2	81.3	8	3	4	1	1	2	7	3	.....	.....	.....	6	2.52	64.0
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.98	761.4	30.02	762.6	38.5	3.6	88.1	1	3	3	6	3	7	5	1	.....	.....	.....	8	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.97	761.1	29.98	761.6	39.0	3.9	87.6	1	.....	4	8	2	5	6	3	.....	.....	.....	8	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.47	748.5	29.51	749.6	1.0	—17.2	98	7	11	1	1	2	2	1	4	.....	.....	.....	9	.....	.....
Ivigtut	N. 61 12	W. 48 00	8.56 a.m.	16	5	29.43	747.4	29.45	747.9	7.7	—13.5	.....	1	2	.....	.....	.....	2	.....	5	19	.....	.....	8	.....	.....
Jacobshavn	N. 69 13	W. 50 55	8.44 a.m.	42	13	29.52	749.9	29.57	751.1	—11.9	—24.4	.....	.....	.....	.....	2	2	2	2	.....	21	.....	.....	4	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.22	742.2	29.26	743.3	31.3	—0.4	86	.....	1	1	5	2	7	4	6	3	.....	.....	8	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.54	750.3	29.56	750.9	41.0	5.0	85	1	1	4	1	3	14	2	3	.....	.....	.....	8	.....	.....
Upernavik	N. 72 47	W. 56 00	8.24 a.m.	39	12	29.54	750.4	29.59	751.6	—13.4	—25.2	.....	1	.....	.....	3	1	.....	14	4	6	.....	.....	3	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.85	758.1	29.94	760.4	38.5	3.6	84	1	.....	2	7	3	4	8	4	.....	.....	.....	7	.....	.....
Egyptian.																										
Cairo	N. 30 03	E. 31 21	2.14 p.m.	?	?	29.95	760.8	.....	.....	63.0	17.2	.....	6	3	3	11	.....	.....	1	5	.....	.....	.....	6	0.28	7.0
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.44	747.7	30.10	764.4	50.9	10.5	86	2	.....	1	1	5	15	4	1	.....	.....	.....	.....	2.16	54.9
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.44	747.8	29.99	761.8	45.9	7.7	78.1	.....	3	.....	4	5	3	.....	4	10	.....	.....	5	1.05	26.6
Arras	N. 50 18	E. 2 46	0.19 p.m.	223	68	.....	.....	.....	.....	44.6	7.0	78.2	4	.....	8	1	6	1	7	2	.....	.....	.....	4	0.09	2.4
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	30.05	763.3	30.13	765.3	54.3	12.4	61.4	3	8	.....	.....	1	7	10	.....	.....	.....	.....	6	0.59	15.1
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.50	749.2	30.07	763.7	45.5	7.5	73.0	.....	1	2	2	6	16	2	.....	.....	.....	.....	7	1.74	44.3
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.75	755.6	30.02	762.6	45.0	7.2	71.9	1	.....	1	4	9	5	6	3	.....	.....	.....	6	2.01	51.0
Besançon	N. 47 14	E. 6 02	0.32 p.m.	846	258	29.12	739.6	30.04	762.9	49.6	9.8	72.5	2	.....	.....	11	4	1	.....	11	.....	.....	.....	.....	2.24	56.9
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.75	755.7	30.02	762.4	52.7	11.5	73.4	.....	1	4	2	3	10	7	2	.....	.....	.....	7	2.28	57.9
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.51	749.5	30.07	763.7	48.7	9.3	92.0	1	1	2	8	2	5	3	7	.....	.....	.....	.....	2.10	53.4
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.72	755.0	29.97	761.2	50.0	10.0	83.8	1	1	3	10	3	5	2	2	2	.....	.....	6	10.15	257.8
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	29.89	759.3	29.97	761.2	48.6	9.2	93.0	.....	2	5	1	7	7	5	2	.....	.....	.....	6	1.71	43.4
Châlons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.72	754.8	30.03	762.7	44.1	6.7	84.0	1	.....	2	4	5	8	4	3	2	.....	.....	5	1.98	50.2
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.52	749.9	30.04	763.1	43.2	6.2	77.1	.....	.....	5	1	4	9	6	4	.....	.....	.....	7	2.83	72.0
Clermont-Fer'and	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.67	728.2	30.04	763.0	50.2	10.1	63.1	4	5	4	4	7	4	.....	1	.....	.....	.....	6	1.91	48.6
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.24	742.6	30.06	764.0	47.8	8.8	72.5	3	.....	1	4	6	7	3	4	1	.....	.....	6	2.11	53.7
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.21	741.8	30.09	764.2	42.3	5.7	76.0	1	1	6	5	4	2	4	6	.....	.....	.....	4	1.70	43.1
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.56	700.0	30.14	765.6	45.9	7.7	63.4	3	1	1	2	5	1	2	3	11	.....	.....	4	0.48	12.2
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.98	736.1	30.12	765.1	52.2	11.2	65.0	3	3	.....	2	5	10	5	1	.....	.....	.....	7	0.87	22.1
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.30	744.3	30.09	764.3	48.6	9.2	72.2	1	5	2	2	2	.....	11	6	.....	.....	.....	.....	1.72	43.8
Guéret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.47	723.1	30.02	762.5	47.8	8.8	78.0	.....	1	3	16	4	4	1	.....	.....	.....	.....	.....	2.46	62.4
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.47	748.4	30.00	762.0	58.1	14.5	62.0	1	2	7	1	1	3	9	5	.....	.....	.....	4	2.31	58.7
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.86	758.5	29.97	761.1	51.3	10.7	68.7	.....	.....	3	6	5	5	5	4	1	.....	.....	7	2.66	67.7
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	29.01	736.8	30.09	764.3	47.8	8.8	69.1	3	1	2	1	13	3	3	3	.....	.....	.....	.....	1.30	33.0
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.80	757.0	30.00	762.0	45.9	7.7	82.0	.....	1	7	3	9	3	5	1	.....	.....	.....	6	1.74	44.2
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.84	757.9	30.11	764.8	56.1	13.4	63.2	.....	3	1	4	....	8	13	.....	.....	.....	.....	.....	0.58	14.6
Montlouis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.80	629.9	29.64	752.9	41.9	5.5	57.0	1	3	5	14	1	.....	3	2	.....	.....	.....	5	2.65	67.2
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.97	761.3	30.08	764.1	52.7	11.5	82.2	6	2	2	.....	3	7	5	4	.....	.....	.....	6	1.02	26.0
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.28	743.8	30.08	764.1	42.6	5.9	72.6	5	1	3	5	11	3	.....	1	.....	.....	.....	.....	2.32	58.9
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.86	758.4	30.02	762.5	50.4	10.2	71.9	.....	1	2	5	5	6	5	5	.....	.....	.....	4	2.17	55.2
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.98	761.5	30.09	764.3	55.6	13.1	67.0	2	5	.....	1	1	10	4	6	.....	.....	.....	8	4.65	118.0
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.13	536.8	.....	.....	25.5	—3.6	.....	.....	3	6	16	.....	.....	.....	1	3	.....	.....	5	2.30	58.5
Privas. [mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	29.05	737.9	30.13	765.2	48.9	9.4	73.8	5	2	1	1	14	2	.....	.....	4	.....	.....	.....	0.78	19.9
Puy de Dôme	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.10	637.6	.....	.....	34.2	1.2	89.2	1	2	2	13	7	4	.....	.....	.....	.....	.....	6	3.87	98.3
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	30.00	761.9	30.03	762.7	52.9	11.6	73.8	.....	.....	2	4	9	6	3	3	2	.....	.....	4	7.40	188.0
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.77	756.2	30.00	762.1	51.4	10.8	77.2	.....	2	2	8	2	8	5	2	.....	.....	.....	.....	2.01	51.0
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	28.00	711.2	30.11	764.7	45.7	7.6	86.0	.....	6	2	1	4	8	1	2	5	.....	.....	.....	0.88	22.4
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	29.96	761.0	30.01	762.2	46.6	8.1	80.0	2	.....	3	2	5	7	7	3	.....	.....	.....	5	1.54	39.0
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.87	758.6	30.03	762.8	45.3	7.4	74.8	3	1	2	6	5	5	6	1	.....	.....	.....	7	1.65	41.9
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.35	745.6	30.08	764.0	52.9	11.6	76.3	.....	4	2	1	1	18	1	2	.....	.....	.....	6	1.44	36.7
Tours	N. 47 24	E. 0 41	0.11 p.m.	167	51	29.54	757.9	30.04	762.9	49.6	9.8	75.0	4	1	3	1	7	2	3	8	.....	.....	.....	4	2.62	66.5
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.53	750.0	30.02	762.6	44.8	7.1	74.2	1	1	4	8	5	5	3	2	.....	.....	.....	.....	1.49	37.9
Sub-Series.																										
St. Martin du Hinx.	N. 43 35	W. 1 16	0.03 p.m.	131	40	29.89	759.3	30.04	763.1	54.9	12.7	69.3	3	2	4	5	4	2	5	4	.....	.....	.....	7	3.79	96.3
GERMAN.																										
Ansbach	N. 45 18	E. 10 36	0.50 p.m.	1358	414	28.63	727.3	30.13	765.3	41.4	5.2	63.1	1	.....	4	8	2	3	2	4	5	.....	.....	5	0.61	15.5
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.23	742.4	30.07	763.7	40.8	4.9	65.2	2	1	1	2	1	8	4	.....	10	.....	.....	6	1.00	25.4
Berlin	N. 52 30	E. 13 19	1.02 p.m.	131	40	29.93	760.2	30.07	763.8	42.3	5.7	68.7	.....	1	6	6	6	2	5	3	.....	.....	.....	7	0.92	23.5
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.60	751.8	30.13	765.4	40.1	4.5	70.4	1	3	9	3	2	4	6	.....	1	.....	.....	7	0.31	8.0
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	413	126	29.63	752.7	30.11	764.8	43.9	6.7	66.4	.....	.....	2	9	1	2	3	7	5	.....	.....	7	2.20	56.0
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.34	745.1	30.04	763.1	41.7	5.4	72.3	1	2	.....	3	17	1	1	4	.....	.....	.....	6	0.79	20.1
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.71	754.5	30.09	764.3	42.3	5.7	70.6	1	1	1	5	12	1	7	1	.....	.....	.....	8	1.24	31.6
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1339	408	28.67	728.1	30.13	765.3	40.1	4.5	78.0	2	1	2	15	2	1	.....	6	.....	.....	.....	6	2.50	63.5
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.97	761.2	30.00	763.6	40.8	4.9	82.1	1	.....	2	10	3	6	5	2	.....	.....	.....	6	1.13	28.8
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	30.00	762.1	30.02	762.5	41.0	5.0	79.1	2	.....	3	10	3	1	8	2	.....	.....	.....	7	1.98	50.3
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.67	753.7	30.11	764.8	42.1	5.6	73.4	.....	1	3	9	5	3	3	5	.....	.....	.....	7	0.41	10.4
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.88	759.0	30.08	764.0	43.5	6.4	71.5	.....	.....	5	7	6	2	6	3	.....	.....	.....	6	0.66	16.7
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	30.06	763.4	30.11	764.7	34.7	1.5	89.5	1	7	5	3	3	3	2	5	.....	.....	.....	9	.....	.....
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.25	717.5	30.12	765.0	42.8	6.0	60.3	3	7	1	2	.....	1	6	3	6	.....	.....	5	0.80	20.3
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	30.07	763.8	30.09	764.2	37.8	3.2	85.3	1	3	7	3	5	5	4	1	.....	.....	.....	9	1.46	37.1
Neustadt*a*	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.54	750.3	30.07	763.7	43.7	6.5	70.0	.....	4	5	3	5	.....	3	1	7	.....	.....	8	1.39	35.3
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.11	739.3	30.04	763.0	44.6	7.0	65.3	9	.....	2	7	2	.....	6	3	.....	.....	.....	6	1.02	25.9
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	30.01	762.2	30.03	762.7	39.0	3.9	85.0	2	.....	2	6	4	8	5	2	.....	.....	.....	9	1.51	38.3
GREEK.																										
Athens*g*	N. 37 58	E. 23 44	1.43 p.m.	361	110	29.71	754.7	30.10	764.6	53.8	12.1	.....	11	1	.....	2	3	.....	1	4	.....	.....	.....	5	0.63	15.9
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.92	760.0	29.97	761.2	75.2	24.0	59	.....	2	10	12	1	.....	1	3	.....	.....	.....	6	0.45	11.4
Deesa	N. 24 16	E. 72 14	4.57 p.m.	466	142	29.46	748.2	29.93	760.2	82.7	28.2	20	5	6	11	4	.....	1	.....	2	.....	.....	.....	2	0.02	0.5
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.90	759.4	29.94	760.4	77.8	25.4	68	3	20	6	.....	.....	.....	.....	.....	.....	.....	.....	1	0	0
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	28.05	712.5	29.89	759.2	84.5	29.2	21	1	10	7	6	.....	2	1	2	.....	.....	.....	1	0	0
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.37	695.2	29.89	759.3	80.2	26.8	38	.....	.....	10	10	1	1	2	2	3	.....	.....	2	0.07	1.8
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	29.91	759.8	29.98	761.5	66.1	18.9	46	9	3	3	.....	1	.....	1	2	10	.....	.....	4	1.64	41.7
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	29.01	736.8	29.93	760.2	69.7	20.9	33	.....	2	18	.....	.....	1	.....	.....	8	.....	.....	3	0.19	4.8
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	29.38	746.1	29.95	760.7	75.4	24.1	28	.....	10	14	2	.....	1	1	1	.....	.....	.....	2	0.08	2.0
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.86	733.1	29.90	759.5	82.3	27.9	28	.....	1	2	4	3	2	2	1	14	.....	.....	2	0	0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for February, 1884. Mean Barometer. Actual. Inch.	Actual. Mill.	Reduced. Inch.	Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
INDIAN—Cont'd.	° ′	° ′																								
Jubbulpore	N. 23 09	E. 79 59	5.28 p.m.	1341	409	28.58	726.0	29.95	760.8	75.4	24.1	34	.....	4	3	1	.....	2	2	4	13	.....	.....	3	1.50	38.1
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	113	29.56	750.7	29.94	760.5	71.2	21.8	32	3	7	7	1	.....	1	.....	2	8	.....	.....	1	0	0
Allahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.62	752.4	29.94	760.5	73.3	22.9	46	2	5	1	.....	.....	.....	.....	1	20	.....	.....	2	0.18	4.6
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.74	755.4	29.93	760.2	72.6	22.6	37	.....	13	8	2	.....	2	1	2	1	.....	.....	2	0	0
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.89	708.4	29.94	760.5	69.3	20.7	30	2	16	8	1	.....	.....	.....	.....	2	.....	.....	2	0.67	17.0
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.86	758.5	29.94	760.6	78.9	26.1	51	.....	8	4	5	6	2	1	.....	3	.....	.....	3	0.72	18.3
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	6	29.92	759.9	29.94	760.5	72.7	22.6	56	2	4	4	6	6	2	.....	.....	5	.....	.....	1	0.29	7.4
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	115	35	29.83	757.7	29.95	760.8	68.6	20.3	57	2	.....	.....	2	.....	.....	2	3	20	.....	.....	2	0.34	8.6
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.89	759.2	29.98	761.6	70.8	21.6	69	.....	2	13	7	4	.....	.....	.....	3	.....	.....	2	0	0
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.66	753.2	30.01	762.2	60.6	15.9	86	.....	2	.....	1	.....	3	2	21	.....	.....	.....	6	2.29	58.2
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.49	723.7	29.96	761.0	73.5	23.1	35	5	15	3	3	.....	.....	2	1	.....	.....	.....	4	0.06	1.5
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	29.86	758.3	29.88	758.9	85.0	29.4	63	2	3	2	2	.....	1	5	13	1	.....	.....	3	0	0
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.41	721.6	.....	.....	87.9	31.1	25.8	3	3	.....	1	3	5	11	3	.....	.....	.....	2	0	0
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.67	753.6	.....	.....	87.1	30.6	34.4	.....	.....	.....	.....	.....	.....	7	22	.....	.....	.....	2	0	0
ITALIAN.																										
Udine	N. 46 04	E. 13 13	1.01 p.m.	381	116	29.77	756.1	30.19	766.8	46.6	8.1	59	1	...	3	3	3	3	4	1	11	.....	.....	6	0.34	8.7
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.67	753.5	30.20	767.0	45.1	7.3	67	2	7	.....	7	3	1	5	4	.....	.....	.....	7	1.00	25.4
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	30.05	763.3	30.17	766.2	44.4	6.9	66	6	2	1	4	.....	.....	.....	10	6	.....	.....	6	0.32	8.1
Moncalieri	N. 45 00	E. 7 41	0.39 p.m.	846	258	29.24	742.7	30.17	766.4	45.0	7.2	67	7	10	.....	1	3	.....	5	3	.....	.....	.....	6	0.27	6.8
Genoa	N. 44 24	E. 8 55	0.44 p.m.	157	48	29.95	760.7	30.15	765.7	51.3	10.7	63	10	.....	.....	1	7	6	.....	4	1	.....	.....	7	4.00	101.5
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	30.12	765.1	30.17	766.4	46.6	8.1	76	15	1	1	4	.....	2	1	5	.....	.....	.....	6	1.02	26.0
Florence	N. 43 46	E. 11 15	0.53 p.m.	240	73	29.89	759.1	30.15	765.7	50.5	10.3	63	1	.....	2	4	2	2	6	12	.....	.....	.....	6	0.12	3.1
Leghorn	N. 43 33	E. 10 18	0.49 p.m.	79	24	30.00	762.0	30.07	763.8	53.2	11.8	64	3	1	3	3	5	2	4	8	.....	.....	.....	6	0.24	6.1
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.95	760.8	30.13	765.3	54.7	12.6	53	13	.....	5	1	5	1	2	2	.....	.....	.....	5	1.42	36.0
Lecce	N. 40 22	E. 18 12	1.21 p.m.	236	72	29.87	758.6	30.13	765.2	54.3	12.4	60	9	6	.....	3	4	2	2	3	.....	.....	.....	5	1.56	39.5
Cosenza	N. 39 19	E. 16 17	1.13 p.m.	840	256	29.24	742.7	30.16	766.0	50.2	10.1	74	.....	5	7	3	3	11	.....	.....	.....	.....	.....	4	1.94	49.2
Palermo	N. 38 07	E. 13 21	1.02 p.m.	236	72	29.88	758.9	30.13	765.4	57.9	14.4	62	.....	1	3	.....	.....	.....	1	24	.....	.....	.....	5	0.80	20.4
Syracuse	N. 37 03	E. 15 15	1.09 p.m.	72	22	30.07	763.8	30.12	765.0	57.0	13.9	66	5	1	5	.....	4	1	5	8	.....	.....	.....	6	1.29	32.8
Sub-Series.																										
Naples *a.*	N. 40 52	E. 14 15	1.05 p.m.	489	149	29.62	752.4	30.16	766.0	53.2	11.8	63.6	3	3	2	6	1	3	5	5	...	.....	.....	5	0.59	15.0
JAPANESE.																										
Akita	N. 39 42	E. 140 07	9.28 p.m.	32	10	30.01	762.1	30.04	763.0	29.8	—1.2	88	5	10	5	.....	.....	.....	.....	9	.....	.....	.....	8	2.35	59.7
Awomori	N. 40 51	E. 140 45	9.31 p.m.	32	10	29.96	761.0	30.00	761.9	27.1	—2.7	76.9	1	3	6	9	6	1	3	.....	.....	7191	11570	7	2.91	73.7
Hakodate	N. 41 47	E. 140 44	9.31 p.m.	10	3	29.98	761.5	29.99	761.8	26.1	—3.3	79.6	15	6	5	.....	1	.....	2	.....	.....	7446	11983	6	0.83	21.2
Hamamatsu	N. 34 43	E. 137 43	9.19 p.m.	92	28	29.99	761.6	30.09	764.1	37.6	3.1	71	.....	1	23	.....	.....	.....	1	1	3	.....	.....	1	2.14	51.7
Hiroshima	N. 34 23	E. 132 27	8.58 p.m.	14	4	30.20	767.0	30.21	767.4	36.3	2.4	81.1	15	2	9	.....	.....	.....	2	4	.....	3192	5136	5	2.80	71.0
Kagoshima	N. 31 35	E. 130 33	8.50 p.m.	14	4	30.22	767.5	30.23	767.8	41.2	5.1	75.5	16	3	.....	.....	.....	.....	1	3	6	.....	.....	5	4.76	120.7
Kanazawa	N. 36 33	E. 136 40	9.14 p.m.	95	29	30.04	762.9	30.11	765.7	34.1	1.2	82	1	2	6	2	3	4	10	1	.....	5560	8047	8	7.78	197.3
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.98	761.5	30.15	765.9	34.0	1.1	85	6	7	1	4	2	.....	.....	2	4	2134	3431	5	2.68	67.9
Kochi	N. 33 33	E. 133 34	9.02 p.m.	20	6	30.15	765.7	30.17	766.2	40.3	4.6	74.9	3	3	8	2	.....	1	6	5	1	5049	8125	4	2.66	67.4
Miasaka	N. 31 56	E. 131 26	8.54 p.m.	26	8	30.19	766.7	30.21	767.4	41.0	5.0	75	8	3	16	.....	1	.....	1	.....	.....	.....	.....	4	4.98	126.4
Miyako	N. 39 38	E. 141 59	9.36 p.m.	98	30	29.89	759.2	30.00	762.0	29.5	—1.4	68	3	1	10	4	.....	.....	2	1	8	1395	2245	4	4.19	105.1
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	30.04	762.9	30.25	768.3	38.0	3.7	77	5	4	1	.....	.....	.....	1	3	15	2732	4397	5	3.77	95.7
Nemuro	N. 43 20	E. 145 35	9.50 p.m.	43	13	29.88	759.0	29.93	760.2	18.7	—7.4	66	1	10	2	3	1	.....	1	1	10	6195	9970	4	0.48	12.2
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	30.01	762.9	30.07	763.9	34.7	1.5	80.9	4	3	10	4	1	5	1	1	.....	6978	11230	10	3.64	92.6
Nobiru	N. 38 23	E. 141 11	9.32 p.m.	15	5	29.98	761.6	30.01	762.0	31.3	—0.4	87.5	13	10	1	2	1	.....	.....	...	2	7427	11952	6	1.37	34.8
Numadzu	N. 35 06	E. 138 51	9.23 p.m.	32	10	30.01	762.2	30.04	763.1	37.6	3.1	74.2	2	.....	1	3	1	2	16	4	.....	.....	.....	4	2.78	70.6
Osaka	N. 34 42	E. 135 30	9.10 p.m.	13	4	30.15	765.8	30.17	766.2	35.1	1.7	73	5	3	7	.....	1	.....	4	9	.....	6319	10169	5	2.45	62.1
Sakai	N. 35 01	E. 133 13	9.01 p.m.	10	3	30.18	766.5	30.19	766.9	36.3	2.4	78	4	1	13	2	.....	.....	2	6	1	.....	.....	6	6.78	172.3
Sapporo	N. 43 04	E. 141 23	9.33 p.m.	60	18	29.91	759.7	29.98	761.4	21.9	—5.6	85	5	3	1	.....	1	4	2	1	12	3669	5907	7	2.67	68.0
Shimonoseki	N. 33 58	E. 130 56	8.52 p.m.	134	41	30.08	763.9	30.22	767.6	38.8	3.8	78	7	.....	7	5	1	1	4	3	1	.....	.....	6	3.55	90.2
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	30.11	764.8	30.16	766.2	37.2	2.9	75	2	7	.....	.....	.....	.....	1	4	15	2258	3633	5	3.11	79.1
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.75	755.6	29.94	760.4	80.9	27.2	69.6	.....	.....	1	.....	1	3	19	5	.....	.....	.....	7	3.78	96.0
MEXICAN.																										
Leon	N. 21 07	W. 101 35	5.22 a.m.	5901	1799	24.34	618.2	30.16	766.1	47.6	8.7	72.8	5	15	1	.....	1	1	1	.....	5	.....	.....	3	0.08	2.0
Mazatlan	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.80	756.8	30.06	763.5	66.1	18.9	77.6	4	8	.....	.....	.....	.....	15	2	.....	.....	.....	3	0	0
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	30.00	762.0	30.00	762.0	44.4	6.9	.....	1	1	1	7	9	2	6	2	.....	.....	.....	.....	1.29	32.7
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	30.00	762.1	30.06	763.6	41.2	5.1	.....	2	1	2	9	9	2	4	.....	.....	.....	.....	.....	1.30	33.0
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	29.98	761.5	29.98	761.5	41.2	5.1	.....	1	.....	1	7	8	4	7	1	.....	.....	.....	.....	0.90	22.8
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	29.99	761.8	29.99	761.8	49.3	9.6	75.1	1	.....	3	14	1	2	6	2	.....	.....	.....	.....	1.08	27.4
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	29.97	761.3	30.02	762.6	44.2	6.8	71.1	.....	.....	2	8	8	5	3	3	.....	.....	.....	.....	0.90	22.9
Sub-Series.																										
Batavia	S. 6 11	E. 106 48	7.15 p.m.	?	?	29.89	759.1	.....	.....	77.7	25.4	87.9	9	8	8	2	.....	.....	.....	2	.....	.....	.....	7	13.31	338.1
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.80	757.0	29.87	758.6	40.1	4.5	67.7	2	2	2	2	10	1	.....	.....	10	.....	.....	6	7.68	195.0
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.74	755.4	29.78	756.4	36.7	2.6	69.3	.....	1	2	5	5	2	4	.....	10	.....	.....	5	0.95	24.2
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.82	757.5	29.98	761.4	33.1	0.6	77.3	4	2	5	2	6	2	2	4	2	.....	.....	7	0.92	23.3
Gjesvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.57	751.0	29.59	751.6	31.3	—0.4	.....	.....	1	6	6	9	3	1	.....	3	.....	.....	8	2.31	58.7
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.66	753.3	29.71	754.5	33.4	0.8	75.2	1	1	1	11	5	.....	4	1	5	.....	.....	7	2.78	70.7
PORTUGUESE.																										
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.03	762.7	30.12	765.0	60.8	16.0	59.5	.....	3	3	10	.....	2	4	1	6	.....	.....	6	3.79	96.2
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	312	95	29.74	755.3	30.08	763.9	53.2	11.8	74.4	6	1	1	6	8	1	2	4	.....	.....	.....	7	5.99	152.1
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.03	763.3	30.12	765.1	57.2	14.0	68.3	4	8	6	3	1	1	1	5	.....	.....	.....	4	4.28	108.8
Saint Vincent	N. 16 37	W. 25 02	10.28 a.m.	34	10	30.11	764.7	30.14	765.6	69.1	20.6	72.0	3	.....	.....	.....	.....	.....	.....	3	23	.....	.....	6	0.46	11.8
San Salvador	S. 6 17	E. 14 53	1.07 p.m.	1834	559	28.04	712.2	29.85	758.2	83.1	28.4	63.6	1	5	5	10	2	.....	4	1	1	.....	.....	7	4.66	118.4
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.22	640.5	30.08	764.1	34.7	1.5	92.8	.....	3	4	2	6	7	7	.....	.....	.....	.....	9	8.89	225.8
RUSSIAN																										
Akmolinski	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.86	732.9	30.04	763.1	5.7	-14.6	91.9	.....	2	8	9	5	1	1	1	2	.....	.....	6	0.42	10.8
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.79	756.6	29.81	757.1	15.8	—9.0	87.3	2	1	5	8	3	2	8	.....	.....	.....	.....	8	0.58	14.7
Ashuruda	N. 36 54	E. 53 55	3.44 p.m.	79	24	30.20	767.2	30.11	764.8	49.3	9.6	76.8	9	9	4	1	.....	.....	3	3	.....	.....	.....	7	1.95	49.5
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	68	21	30.20	767.1	30.12	765.1	29.7	—1.3	74.4	1	6	8	5	4	.....	2	3	.....	.....	.....	8	0.31	7.8
Baku	N. 40 21	E. 49 51	3.28 p.m.	39	12	30.19	766.9	30.15	765.7	41.5	5.3	77.0	12	1	.....	3	5	1	.....	2	5	.....	.....	6	0.80	20.3
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.67	753.6	30.22	767.5	9.5	-12.5	73.7	.....	.....	.....	16	3	1	1	1	7	.....	.....	7	1.04	26.3
Bielosersk	N. 60 02	E. 37 47	2.39 p.m.	430?	131?	29.49	749.1	29.99	761.7	19.4	—7.0	81.3	1	2	4	4	2	2	3	.....	11	.....	.....	8	0.86	21.9
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.80	756.8	30.05	763.3	27.3	—2.6	82.9	1	3	6	4	4	2	3	5	1	.....	.....	8	1.54	39.2
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.85	732.8	29.90	759.4	8.2	-13.2	80.7	1	2	10	6	1	2	2	3	.....	.....	.....	8	0.39	10.0
Elissawetgrad	N. 48 31	E. 32 17	2.17 p.m.	417?	127?	29.70	754.3	30.17	766.3	33.1	0.6	77.4	2	6	6	4	3	2	2	2	2	.....	.....	8	0.46	11.6
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.66	753.4	29.95	760.8	13.1	-10.5	84.9	3	6	3	6	2	5	2	.....	2	.....	.....	7	0.16	4.1
Kem	N. 64 57	E. 34 39	2.26 p.m.	43	13	29.84	757.9	29.89	759.2	21.9	—5.6	83.6	2	3	9	6	2	.....	.....	.....	7	.....	.....	9	0.22	5.6
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	30.12	764.9	30.14	765.5	36.1	2.3	80.5	3	3	3	1	1	2	.....	7	9	.....	.....	8	0.25	6.3
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.43	747.6	30.10	764.5	31.8	—0.1	79.2	3	8	4	1	4	3	1	5	.....	.....	.....	8	?	?
Koslov	N. 52 53	E. 40 31	2.50 p.m.	466?	142?	29.46	748.2	29.99	761.8	21.6	—5.8	75.8	2	5	6	6	3	2	1	3	1	.....	.....	8	0.97	24.7
Lgov	N. 51 41	E. 35 17	2.29 p.m.	535?	163?	29.51	749.6	30.13	765.3	26.1	—3.3	83.2	2	4	9	5	2	.....	4	2	1	.....	.....	9	0.78	19.8
Libau	N. 56 31	E. 21 01	1.32 p.m.	20	6	30.04	763.1	30.07	763.7	34.7	1.5	83.4	1	3	6	3	2	6	4	2	2	.....	.....	8	1.55	39.3
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.88	758.9	30.09	764.3	29.8	—1.2	05.4	2	4	7	9	.....	2	2	3	.....	.....	.....	8	0.52	13.2
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.50	749.3	30.01	762.3	21.2	—6.0	77.9	7	7	4	3	3	1	1	2	1	.....	.....	7	0.74	18.7
Nertchinsk	N. 51 19	E. 119 37	8.07 p.m.	?	?	27.93	709.3	30.49	774.5	—1.7	-18.7	74.1	1	4	.....	1	.....	.....	.....	.....	23	.....	.....	2	0.08	2.0
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	30.11	764.7	30.18	766.5	36.5	2.5	73.3	4	3	2	3	8	1	.....	5	3	.....	.....	6	0.80	20.3
Nikolaievsk *d.*	N. 53 08	E. 140 45	9.31 p.m.	59	18	29.96	760.9	30.04	763.1	—3.5	-19.7	76.0	.....	1	12	.....	.....	.....	1	.....	11	.....	.....	2	.....	.....
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	30.24	768.0	30.38	771.6	28.6	—1.9	45.1	1	7	.....	2	.....	.....	.....	.....	17	.....	.....	2	0	0
petre-Alexandrovsk	N. 41 28	E. 61 05	4.12 p.m.	328	100	29.82	757.5	30.19	766.9	36.5	2.5	60.2	5	2	3	2	1	6	3	4	3	.....	.....	7	.....	.....
Petrozavodsk	N. 61 47	E. 34 23	2.26 p.m.	180?	55?	29.74	755.3	29.94	760.6	20.8	—6.2	79.3	1	8	5	3	.....	6	2	1	3	.....	.....	7	0.78	19.7

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Mean Barometer. Actual. Inch.	Actual. Mill.	Reduced. Inch.	Reduced. Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
RUSSIAN.—Cont'd	° ′	° ′																								
Pinsk	N. 52 07	E. 26 06	1.52 p.m.	459?	140?	29.61	752.1	30.13	765.3	34.5	1.4	80.0	2	6	5	2	3	3	5	3	.....	.....	.....	8	0.92	23.3
Poti	N. 42 09	E. 41 37	2.54 p.m.	466?	142?	30.11	764.8	30.14	765.6	44.6	7.0	86.7	.....	3	.....	3	8	.....	9	.....	6	.....	.....	6	4.08	103.6
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	20	6	30.00	762.0	30.02	762.6	22.8	—5.1	80.1	...	9	6	2	2	3	3	4	.....	.....	.....	7	0.74	18.7
Samarkand	N. 39 39	E. 66 57	4.36 p.m.	2379?	725?	27.62	701.5	30.15	765.9	41.9	5.5	67.2	.....	.....	1	3	.....	1	1	.....	23	.....	.....	6	.....	.....
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.56	750.7	30.28	769.1	9.5	-12.5	81.9	.....	.....	1	3	3	6	1	.....	15	.....	.....	6	0.48	12.1
Sevastopol	N. 44 37	E. 33 31	2.22 p.m.	138?	42?	29.94	760.4	30.16	766.1	40.6	4.8	64.3	5	3	4	5	3	.....	.....	9	...	.....	.....	7	0.99	25.1
Staroi Bykhov	N. 53 31	E. 30 16	2.09 p.m.	423?	129?	29.50	749.3	30.08	764.1	31.1	—0.5	75.0	3	5	4	2	3	6	4	2	.....	.....	.....	8	0.92	23.4
Tashkend	N. 41 20	E. 69 18	4.45 p.m.	1607?	490?	28.46	723.0	30.21	767.3	37.8	3.2	73.1	3	6	.....	.....	2	.....	...	5	13	.....	.....	7	.....	.....
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1313	409	28.60	728.8	30.16	766.1	39.4	4.1	57.8	7	9	.....	.....	.....	2	3	.....	8	.....	.....	6	1.42	36.2
Vernoe	N. 43 16	E. 76 53	5.16 p.m.	2401?	732?	27.53	699.2	30.19	766.7	23.7	—4.6	71.3	1	...	.....	1	.....	1	.....	1	25	.....	.....	5	.....	.....
Viatka	N. 58 36	E. 49 41	3.27 p.m.	581?	177?	29.17	741.0	29.86	758.3	11.1	-11.6	72.3	4	1	6	4	2	8	.....	1	2	.....	.....	7	0.44	11.1
Vladivostock	N. 43 09	E. 132 00	8.56 p.m.	59?	18?	30.08	763.9	30.14	765.6	14.7	—9.6	70.6	12	2	1	.....	...	3	1	5	5	.....	.....	2	0.13	3.2
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.69	754.0	30.13	765.2	37.8	3.2	80.9	3	4	6	7	3	2	4	.....	.....	.....	.....	8	.....	.....
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	29.98	761.4	30.30	769.6	1.2	-17.1	76.6	1	1	9	5	.....	2	4	.....	7		.....	3	0.29	7.3
Sub-Series.																										
Petrowsky Ac'y	N. 55 50	E. 37 38	2.39 p.m.	508	155	29.36	745.7	29.87	758.7	20.6	—6.3	74.5	2	5	9	2	3	2	2	3	1	.....	.....	7	1.03	26.1
SPANISH.																										
Barcelona	N. 41 23	E. 2 15	0.16 p.m.	98	30	29.95	760.8	30.07	763.7	56.1	13.4	78.3	.....	.....	6	5	2	4	9	3	.....	.....	.....	5	2.35	59.7
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	29.96	761.0	30.02	762.5	59.5	15.3	61	.....	5	1	5	5	9	.....	1	3	2510	4039	6	1.76	44.8
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.08	687.8	30.11	764.8	45.7	7.6	73	1	.....	7	11	5	2	.....	3	.....	5975	9615	7	2.07	67.8
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.84	707.2	30.11	764.7	50.2	10.1	69.4	1	2	6	4	2	7	1	6	.....	621	1000	8	1.44	36.6
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	29.93	760.3	30.08	764.0	54.5	12.5	75	.....	4	4	5	1	4	6	5	.....	1024	1649	7	1.50	38.0
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.04	737.7	29.95	760.7	51.3	10.7	78	1	1	1	8	9	8	.....	1	.....	671	1080	9	11.20	259.7
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	30.05	763.3	30.12	765.0	68.0	20.0	88.1	1	1	.....	.....	2	3	21	1	.....	.....	.....	2	1.90	48.3
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	29.99	761.6	30.04	763.1	76.3	24.6	77.0	1	.....	.....	2	.....	19	5	2	.....	.....	.....	2	0	0
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	30.01	762.3	30.11	764.8	58.3	14.6	73.2	5	4	9	.....	3	1	5	.....	2	.....	.....	6	4.01	101.8
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	30.02	762.5	30.11	764.8	74.5	23.6	77	2	3	1	.....	2	11	4	3	3	.....	.....	3	3.37	85.5
SWEDISH.																										
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.86	758.4	29.90	759.4	17.8	—7.9	98	3	.....	1	7	8	.....	.....	.....	10	.....	.....	6	1.04	26.3
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.87	758.7	29.92	760.0	24.8	—4.0	89	3	5	.....	13	2	..	1	1	4	.....	.....	6	0.54	13.8
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.86	758.5	29.91	759.8	28.9	—1.7	80	3	.....	2	3	5	.....	.....	1	15	.....	.....	5	0.42	10.8
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.84	757.9	30.02	762.4	34.2	0.1	82	4	1	5	8	2	1	3	3	2	.....	.....	8	0.45	11.5
Wisby	N. 57 39	E. 18 19	1.21 p.m.	52	16	29.94	760.4	30.00	761.9	35.4	1.9	86	1	2	6	7	2	3	8	.....	.....	.....	.....	8	1.48	37.5
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.90	759.5	29.99	761.7	30.9	—0.6	87.0	2	5	2	10	4	2	2	2	.....	.....	.....	7	0.59	15.1
SWISS.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.67	728.3	30.13	765.3	43.3	6.3	72.9	13	.....	.....	.....	14	.....	.....	2	.....	.....	.....	6	1.53	38.8
TURKISH.																										
Constantinople	N. 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	30.19	766.8	40.8	4.9	63.0	4	2	.....	7	1	2	.....	13	.....	.....	.....	6	1.50	38.2
Valona	N. 40 27	E. 19 27	1.26 p.m.	105	32	.....	.....	30.17	766.3	57.7	14.3	.....	.....	15	1	2	.....	2	.....	9	.....	.....	.....	4	2.72	69.0
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	30.01	762.2	58.5	14.7	68.0	3	7	1	10	.....	3	.....	5	.....	.....	.....	.....	6.06	153.9
UNITED STATES.																										
Albany	N. 42 39	W. 73 45	7.13 a.m.	75	23	30.00	762.0	30.09	764.3	31.6	—0.2	72.5	6	3	4	5	5	1	1	1	3	4460	7178	8	3.85	97.8
Alpena	N. 45 05	W. 83 30	6.34 a.m.	609	185	29.36	745.7	30.07	763.8	12.0	-11.1	79.1	2	6	8	1	3	3	3	3	.....	6738	10844	8	2.78	70.6
Apache, Fort	N. 33 48	W. 109 57	4.48 a.m.	5050	1539	24.98	634.5	30.08	764.0	31.9	—0.1	80.8	1	1	.....	8	1	6	3	9	.....	5016	8072	5	3.43	87.1
Assinaboine, Ft.	N. 48 32	W. 109 42	4.49 a.m.	2710	826	27.20	690.9	30.24	768.1	0.5	-17.5	85.9	2	3	.....	7	2	1	9	3	2	7057	11357	4	0.44	11.2
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1129	344	28.94	735.1	30.16	766.1	45.3	7.4	72.0	4	6	3	5	5	3	3	.....	.....	7711	12409	4	5.84	148.3
Atlantic City	N. 39 22	W. 74 25	7.10 a.m.	13	4	30.04	763.0	30.05	763.3	36.5	2.5	85.1	4	2	3	3	5	2	3	7	.....	6659	10716	6	7.44	189.0
Augusta	N. 33 28	W. 81 54	6.40 a.m.	183	56	29.98	761.5	30.18	766.6	48.8	9.3	81.5	.....	1	9	2	7	2	.....	1	7	2958	4760	5	3.98	101.1
Baltimore	N. 39 18	W. 76 37	7.02 a.m.	45	14	30.06	763.5	30.11	764.8	40.3	4.6	72.8	9	4	4	1	3	.....	4	4	.....	4273	6877	7	6.69	169.9
Barnegat City	N. 39 46	W. 74 06	7.12 a.m.	22	7	30.04	763.0	30.06	763.5	37.1	2.8	90.6	4	5	2	6	1	2	7	2	.....	10721	17253	6	1.11	28.2
Bennett, Fort	N. 44 43	W. 100 39	5.26 a.m.	1510	457	28.50	723.9	30.23	767.8	0.7	-17.4	85.3	3	10	.....	.....	.....	3	1	5	7	.....	.....	6	0.57	14.5
Benton, Fort	N. 47 50	W. 110 40	4.45 a.m.	2700	823	27.25	692.1	30.25	768.3	2.8	-16.2	76.1	4	2	3	6	.....	.....	1	4	12	3532	5684	8	0.117	2.87
Bismarck	N. 46 47	W. 100 38	5.26 a.m.	1694	516	28.23	717.0	30.21	767.3	—3.8	-19.9	91.5	4	8	.....	.....	1	3	2	3	8	5352	8613	6	0.87	22.1
Block Id	N. 41 10	W. 71 36	7.22 a.m.	27	8	30.00	763.5	30.09	764.3	34.0	1.1	88.1	4	5	1	4	1	3	2	9	.....	11175	17984	7	7.31	185.7
Boise City	N. 43 37	W. 116 08	4.24 a.m.	2750	838	27.18	690.4	30.14	765.5	25.0	—3.9	86.6	4	4	1	7	5	4	1	1	2	3151	5071	6	1.32	33.5
Boston	N. 42 21	W. 71 04	7.24 a.m.	142	43	29.93	760.2	30.09	764.3	29.1	—1.6	86.7	2	9	3	5	1	1	3	5	.....	7590	12215	8	5.74	145.8
Brownsville	N. 25 53	W. 97 26	5.38 a.m.	57	17	29.98	761.5	30.04	763.0	59.7	15.4	89.4	5	.....	.....	1	4	14	2	2	1	8464	13621	4	inap.	inap.
Buffalo	N. 42 53	W. 78 53	6.52 a.m.	690	210	29.27	743.4	30.06	763.5	25.2	—3.8	85.8	2	1	6	4	4	5	1	6	.....	8391	13504	9	4.03	102.4
Buford, Fort	N. 48 00	W. 103 56	5.12 a.m.	1930	588	28.01	711.4	30.22	767.6	—3.5	-19.7	87.2	3	3	7	1	2	.....	1	8	4	7180	11555	6	0.12	3.0
Cairo	N. 37 00	W. 89 10	6.11 a.m.	377	115	29.71	754.6	30.13	765.3	39.2	4.0	79.2	9	5	.....	5	8	...	1	1	.....	6946	11178	7	5.58	141.7
Canby, Fort	N. 46 16	W. 124 04	3.52 a.m.	179	54	29.83	757.7	30.03	762.7	35.1	1.7	79.8	9	.....	1	.....	6	5	4	4	.....	7714	12414	4	5.20	132.1
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.09	764.3	30.11	764.8	45.8	7.7	86.9	4	2	6	4	9	1	.....	2	1	8906	14331	6	3.31	84.1
Cape May	N. 38 56	W. 74 58	7.08 a.m.	27	8	30.06	763.5	30.08	764.0	37.9	3.3	84.8	3	6	2	1	6	3	5	3	.....	12396	19949	6	6.22	158.0
Cape Mendocino	N. 40 26	W. 124 24	3.50 a.m.	637	194	29.28	743.7	29.98	761.6	42.5	5.8	82.0	2	9	1	1	.....	9	2	4	1	.....	.....	4	1.95	49.5
Cedar Keys	N. 29 08	W. 83 02	6.36 a.m.	22	7	30.15	765.8	30.17	766.3	59.4	15.2	86.0	3	4	.....	1	4	4	6	7	.....	6186	9955	3	1.50	38.6
Charleston	N. 32 47	W. 79 56	6.48 a.m.	52	16	30.06	763.5	30.12	765.0	54.5	12.5	86.2	1	3	5	8	.....	.....	1	0	5	5691	9159	4	4.29	109.0
Charlotte	N. 35 13	W. 80 51	6.44 a.m.	808	246	29.24	742.7	30.14	765.5	45.6	7.6	83.8	2	2	2	14	1	.....	1	7	.....	4603	7408	6	6.43	163.3
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.30	744.2	30.16	766.1	41.5	6.4	78.6	4	7	2	2	3	2	2	0	1	4570	7355	6	8.81	223.8
Cheyenne	N. 41 08	W. 104 48	5.09 a.m.	6105	1861	23.84	605.5	30.11	764.8	19.4	—7.0	65.4	4	10	6	....	3	3	1	1	1	10247	16491	3	0.26	6.6
Chicago	N. 41 52	W. 87 38	6.18 a.m.	661	201	29.30	744.2	30.05	763.3	24.8	—4.0	71.7	1	7	6	2	5	1	.....	7	.....	5412	8710	7	3.27	83.1
Chincoteague	N. 37 55	W. 75 23	7.06 a.m.	18	5	30.06	763.5	30.08	764.0	40.7	4.8	90.1	4	5	.....	3	7	2	4	4	.....	8212	13216	5	5.84	148.3
Cincinnati	N. 39 06	W. 84 30	6.30 a.m.	620	189	29.41	747.0	30.10	764.5	37.9	3.3	82.7	3	4	4	4	2	5	2	3	2	4213	6780	6	8.87	225.3
Cleveland	N. 41 30	W. 81 42	6.41 a.m.	690	210	29.28	743.7	30.08	764.0	27.7	—2.4	87.5	4	3	5	4	2	6	1	4	.....	6880	11072	8	5.27	133.9
Columbus	N. 39 58	W. 83 00	6.36 a.m.	805	245	29.17	740.9	30.07	763.8	33.1	0.6	79.5	1	6	4	4	4	4	3	3	.....	5920	9527	7	4.95	125.7
Concho, Fort	N. 31 25	W. 100 24	5.26 a.m.	1900	579	28.15	715.0	30.17	766.3	39.5	4.2	86.0	2	6	6	4	3	1	.....	0	1	7421	11943	6	0.48	12.2
Custer, Fort	N. 45 42	W. 107 34	4.58 a.m.	3040	926	26.81	681.0	30.17	766.3	2.8	-16.2	79.2	8	4	4	2	1	4	.....	2	4	4210	6775	6	1.29	32.8
Davenport	N. 41 30	W. 90 38	6.06 a.m.	615	187	29.37	746.0	30.07	763.8	22.4	—5.3	73.4	1	8	4	3	2	2	4	5	.....	6972	11220	8	0.98	24.9
Davis, Fort	N. 30 38	W. 103 56	5.12 a.m.	4940	1506	25.20	640.1	30.16	766.1	39.6	4.2	69.9	3	...	.....	3	4	12	.....	2	5	3888	6257	4	0	0
Dayton	N. 46 19	W. 117 56	4.16 a.m.	1667	508	28.29	718.6	30.11	764.8	20.4	—6.4	83.6	1	2	5	12	.....	2	1	4	2	3974	6395	6	5.66	143.8
Deadwood	N. 44 23	W. 103 43	5.13 a.m.	4600	1402	25.23	640.8	30.15	765.8	11.5	-11.4	80.3	.....	....	5	13	2	.....	.....	1	8	3033	4881	4	1.01	25.7
Del. Breakwater	N. 38 48	W. 75 10	7.07 a.m.	20	6	30.07	763.8	30.09	764.3	39.4	4.1	90.0	3	4	1	6	3	3	3	6	.....	11847	19066	7	6.14	156.0
Denver	N. 39 45	W. 105 00	5.08 a.m.	5294	1614	24.60	624.8	30.12	765.0	24.2	—4.3	64.8	3	4	3	2	10	.....	.....	1	6	4782	7696	1	0.86	21.8
Des Moines	N. 41 35	W. 93 37	5.54 a.m.	849	259	29.16	740.7	30.12	765.0	16.0	—8.9	67.3	10	2	2	1	4	3	1	5	1	5513	8872	7	1.92	48.8
Detroit	N. 42 20	W. 83 03	6.36 a.m.	661	201	29.33	715.0	30.08	764.0	28.2	—2.1	80.2	5	6	4	5	1	2	.....	4	2	6737	10812	8	3.39	86.1
Dodge City	N. 37 45	W. 100 00	5.28 a.m.	2517	767	27.41	696.2	30.15	765.8	22.1	—5.5	78.3	6	8	3	3	1	5	1	2	.....	9001	14485	4	0.28	7.1
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.33	745.0	30.09	764.3	17.3	—8.2	67.0	1	6	7	3	4	2	.....	5	1	4452	7165	7	2.19	55.6
Duluth	N. 46 48	W. 92 06	6.00 a.m.	644	184	29.32	744.7	30.13	765.3	2.9	-16.2	81.9	1	6	3	2	.....	.....	.....	7	10	5794	9324	6	2.71	68.8
Eastport	N. 44 54	W. 66 59	7.40 a.m.	61	18	30.03	762.7	30.10	764.5	22.3	—5.4	79.8	4	5	4	1	4	2	2	5	2	7858	12646	6	9.38	238.3
Elliott, Fort	N. 35 30	W. 100 21	5.27 a.m.	2650	808	27.23	691.6	30.13	765.3	27.2	—2.7	83.8	4	5	1	2	5	2	1	7	2	8939	14386	4	0.27	6.9
El Paso	N. 31 47	W. 106 30	5.02 a.m.	3764	1147	26.27	667.2	30.15	765.8	42.0	5.6	63.4	6	7	9	.....	1	2	1	8	3158	5082	2	0.84	21.3
Erie	N. 42 07	W. 80 05	6.48 a.m.	681	208	29.30	744.2	30.07	763.8	28.7	—1.8	85.8	2	3	6	4	6	1	2	5	.....	7238	11648	9	5.88	149.4
Escanaba	N. 45 48	W. 87 05	6.20 a.m.	612	186	29.37	746.0	30.09	764.3	3.3	-15.9	78.1	13	5	4	2	4	1	.....	.....	.....	6488	10441	6	2.75	69.8
Fort Smith	N. 35 22	W. 94 24	5.50 a.m.	451	137	29.58	751.3	30.08	764.0	37.4	3.0	83.1	3	2	6	.....	.....	.....	12	...	6	4222	6794	6	10.72	272.3
Galveston	N. 29 18	W. 94 47	5.49 a.m.	40	12	30.05	763.3	30.09	764.3	58.0	14.4	84.5	3	1	3	.....	14	3	3	2	.....	7560	12160	5	0.89	22.6
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.33	745.0	30.04	763.0	22.2	—5.4	82.1	4	4	4	1	1	4	2	8	1	7745	11981	9	2.72	69.1
Grant, Fort	N. 32 39	W. 109 57	4.48 a.m.	4860	1481	25.20	640.1	30.06	763.5	39.0	3.9	68.8	5	5	.....	.....	.....	4	6	9	.....	4317	6947	4	4.62	117.3
Hatteras	N. 35 15	W. 75 40	7.05 a.m.	12	4	30.10	764.5	30.10	764.5	53.0	11.7	88.5	3	2	.....	8	2	2	5	7	.....	8839	14225	6	5.18	131.6
Helena	N. 46 34	W. 112 04	4.40 a.m.	4044	1232	25.76	654.8	30.13	765.3	11.3	-11.5	77.2	5	3	9	2	1	.....	.....	1	8	3789	6098	5	1.33	33.8
Huron	N. 44 21	W. 98 09	5.35 a.m.	1305	398	28.68	728.5	30.20	767.1	0.8	-17.3	79.2	9	11	1	2	1	2	2	1	.....	7661	12329	5	0.58	14.7
Indianapolis	N. 39 46	W. 86 10	6.23 a.m.	753	229	29.21	741.9	30.06	763.5	31.2	—0.4	75.4	2	6	2	5	3	4	6	1	.....	4636	7461	7	4.73	120.1
Indianola	N. 28 32	W. 96 31	5.42 a.m.	26	8	30.05	763.3	30.08	764.0	57.0	13.9	87.3	2	4	....	1	11	5	1	5	.....	10853	17466	5	0.04	1.0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for February, 1884.																			Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.														
						Actual.		Reduced.					Directions.									Total Movement.					
				Feet.	Metr's	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
U. S.—Continued.	° ′	° ′																									
Jacksonville	N. 30 20	W. 81 39	6.42 a.m.	43	13	30.11	764.8	30.16	766.1	56.4	13.6	87.7	.....	4	3	6	3	4	2	1	6	4279	6886	4	2.45	62.2
Keokuk	N. 40 22	W. 91 26	6.02 a.m.	618	188	29.38	746.2	30.08	764.0	23.3	—4.8	80.2	1	8	3	3	1	3	.....	4	6	4554	7329	6	1.88	47.8
Key West	N. 24 34	W. 81 49	6.41 a.m.	20	6	30.11	764.8	30.13	765.3	70.5	21.4	81.2	4	1	2	3	2	2	7	8	.....	6079	9783	3	1.70	43.2
Kittyhawk	N. 36 00	W. 75 42	7.05 a.m.	22	7	30.10a	764.5a	30.12a	765.0a	48.1	8.9	86.2	.....	4	.....	12	.....	1	1	9	2	10362	16675	6	4.32	109.7
Knoxville	N. 35 56	W. 83 58	[illegible] a.m.	980	299	29.08	738.6	30.16	766.1	41.4	5.2	85.5	3	5	1	6	2	.....	4	6	2	4725	7604	6	8.51	216.2
La Crosse	N. 43 49	W. 91 15	6.03 a.m.	725	221	29.25	742.9	30.09	764.3	12.4	-10.9	75.6	5	7	1	2	10	.....	.....	4	.....	5689	9155	7	1.42	36.1
Leavenworth	N. 39 19	W. 94 57	5.48 a.m.	842	256	29.15	741.2	30.13	765.3	22.8	—5.1	69.2	9	7	.....	2	6	.....	.....	3	2	6021	9690	6	1.42	36.1
Lewiston	N. 46 28	W. 117 05	4.20 a.m.	780	238	29.26	743.2	30.13	765.3	22.3	—5.4	72.2	.....	2	.....	2	.....	11	.....	1	13	940	1513	5	3.10	78.7
Little Rock	N. 34 45	W. 92 06	6.00 a.m.	298	91	29.77	756.1	30.10	764.5	43.4	6.3	82.3	4	7	.....	1	7	2	2	3	3	3539	5695	6	9.79	248.7
Los Angeles	N. 34 03	W. 118 15	4.15 a.m.	371	113	29.63	752.6	30.03	762.7	49.7	9.8	78.4	1	.....	2	.....	1	.....	6	18	1	5183	8825	5	13.37	339.6
Louisville	N. 38 15	W. 85 45	6.25 a.m.	530	162	29.48	748.8	30.07	763.8	39.6	4.2	76.0	4	1	8	4	3	2	2	3	2	6041	9722	7	9.84	249.9
Lynchburg	N. 37 25	W. 79 09	6.52 a.m.	652	199	29.38	746.2	30.10	764.5	41.5	5.3	77.6	.....	5	2	5	4	.....	1	7	5	3154	5076	6	9.02	229.1
Mackinaw City	N. 45 47	W. 84 39	6.30 a.m.	605	184	29.37	746.0	30.07	763.8	9.1	-12.7	81.8	2	6	6	2	2	1	6	2	2	5938	9556	7	5.10	129.5
Macon, Fort	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.11	764.8	30.12	765.0	50.2	10.1	89.2	7	3	3	13	1	1	.....	1	.....	10649	17138	6	2.34	59.4
Maginnis, Fort	N. 47 12	W. 109 10	4.51 a.m.	4340	1324	25.44	646.2	30.20	767.1	4.5	-15.3	51.6	7	11	2	4	.....	1	2	2	.....	7891	12699	5	0.69	17.5
Marquette	N. 46 34	W. 87 24	6.18 a.m.	673	205	29.33	745.0	30.11	764.8	6.6	-14.1	72.5	6	11	6	1	4	.....	.....	1	.....	5567	8959	7	2.05	52.1
Memphis	N. 35 09	W. 90 03	6.08 a.m.	221	98	29.74	755.4	30.09	764.3	43.5	6.4	84.6	1	7	3	1	2	9	.....	4	2	4462	7181	7	9.64	244.9
Milwaukee	N. 43 02	W. 87 54	6.16 a.m.	697	212	29.26	743.2	30.05	763.5	19.0	—7.2	79.7	2	9	4	2	4	1	3	4	.....	8536	13737	6	2.61	66.3
Mobile	N. 30 41	W. 88 02	6.16 a.m.	35	11	30.09	764.3	30.13	765.3	52.1	11.2	83.9	9	1	.....	.....	6	2	.....	1	10	4594	7345	5	5.01	127.3
Montgomery	N. 32 23	W. 86 18	6.23 a.m.	219	66	29.91	759.7	30.15	765.8	48.4	9.1	83.1	3	5	.....	2	5	2	5	.....	7	4408	7094	6	4.80	121.9
Moorhead	N. 46 52	W. 96 44	5.41 a.m.	923	281	29.10	739.1	30.20	767.1	—10.1	—23.4	95.3	13	5	.....	.....	5	4	.....	1	1	6680	10750	4	1.32	33.5
Mt. Washington	N. 44 16	W. 71 18	7.23 a.m.	6279	1914	23.52	597.4	30.14	765.5	14.5	—9.7	85.7	.....	16	3	3	1	5	.....	.....	1	.....	.....	4	7.55	191.8
Nashville	N. 36 10	W. 86 47	6.21 a.m.	549	167	29.50	749.3	30.11	764.8	42.1	5.0	81.4	2	5	4	1	7	2	7	1	.....	5152	8291	7	8.18	207.8
New Haven	N. 41 18	W. 72 56	7.16 a.m.	107	32	29.96	761.0	30.08	764.0	29.9	—1.2	88.2	9	3	1	1	1	2	2	8	2	6036	9714	7	5.57	141.5
New London	N. 41 21	W. 72 05	7.20 a.m.	47	14	30.04	763.0	30.09	764.3	31.9	—0.1	87.8	3	7	3	2	2	.....	3	7	2	5585	8988	7	5.62	142.7
New Orleans	N. 29 58	W. 90 04	6.08 a.m.	52	16	30.06	763.5	30.12	765.0	56.1	13.4	80.0	6	.....	1	2	6	6	1	3	4	5103	8690	3	3.16	80.3
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	29.90	759.4	30.10	764.5	33.9	1.1	85.6	2	3	5	1	2	2	1	7	6	5610	9028	7	5.09	129.3
Norfolk	N. 36 51	W. 76 17	7.03 a.m.	30	9	30.06	763.5	30.09	764.3	47.1	8.4	85.5	5	3	2	4	5	.....	2	3	5	5236	8475	6	4.58	116.3
North Platte	N. 41 08	W. 100 45	5.25 a.m.	2841	866	27.05	687.1	30.15	765.8	14.2	—9.9	76.7	.....	10	6	.....	.....	2	.....	5	6	5437	8750	5	0.23	5.8
Olympia	N. 47 03	W. 122 53	3.57 a.m.	36	11	30.02	762.5	30.06	763.5	30.2	—1.0	84.7	3	.....	1	1	5	.....	.....	3	16	1265	2036	5	4.17	105.9
Omaha	N. 41 16	W. 95 56	5.44 a.m.	1113	339	28.90	731.0	30.18	766.6	14.1	—9.9	75.1	12	5	3	1	3	2	1	1	1	7343	11815	5	1.42	36.1
Oswego	N. 43 29	W. 76 35	7.02 a.m.	304	93	29.70	754.4	30.05	763.3	28.2	—2.1	75.1	4	2	3	.....	9	6	.....	5	.....	8007	12885	10	2.98	75.7
Palestine	N. 31 45	W. 95 40	5.45 a.m.	533	162	29.52	749.8	30.10	764.5	48.2	9.0	78.7	5	2	.....	1	12	2	1	6	.....	8467	13626	6	2.47	62.7
Pensacola	N. 30 25	W. 87 13	6.19 a.m.	30	9	30.11	764.8	30.14	765.5	54.0	12.2	85.2	5	2	3	3	.....	9	3	4	.....	5800	9334	4	3.43	87.1
Philadelphia	N. 39 57	W. 75 09	7.07 a.m.	92	28	29.98	761.5	30.09	764.3	38.6	3.7	87.5	2	6	3	4	2	.....	2	10	.....	6239	10040	6	5.70	144.8
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	17.46	443.5	30.18	766.6	0.3	-17.6	80.7	3	7	9	5	3	.....	.....	2	.....	.....	.....	2	0.76	19.3
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	766	233	29.21	741.9	30.07	763.8	36.0	2.2	85.6	1	7	4	3	5	.....	2	7	.....	5125	8248	7	4.57	116.1
Poplar, River	N. 48 08	W. 105 10	5.07 a.m.	2030	619	.....	.....	.....	.....	—11.2	—24.0	89.6	2	1	8	3	1	...	9	3	2	.....	.....	6	0.41	10.4
Port Huron	N. 43 00	W. 82 26	6.38 a.m.	633	193	29.29	741.0	30.02	762.5	21.2	—6.0	85.4	3	3	6	2	4	2	1	5	3	6577	10584	8	3.16	80.3
Portland, Maine	N. 43 39	W. 70 15	7.27 a.m.	45	14	30.04	763.0	30.09	764.3	27.2	—2.7	78.7	5	5	1	4	2	1	.....	8	3	5880	9463	7	6.92	175.8
Portland, Oreg.	N. 45 32	W. 122 43	3.57 a.m.	67	20	29.97	761.2	30.04	763.0	32.2	0.1	84.7	3	6	.....	2	3	.....	4	5	6	4141	6664	5	4.88	123.9
Prescott	N. 34 33	W. 112 28	4.38 a.m.	5340	1628	24.73	628.1	30.09	764.3	31.5	-0.3	82.5	1	.....	4	11	9	1	.....	1	2	5534	8906	4	0.55	166.4
Provincetown	N. 42 03	W. 70 11	7.27 a.m.	26	8	30.05	763.3	30.08	764.0	33.2	0.7	85.9	.....	7	3	1	3	7	3	3	2	7749	12471	8	7.34	186.4
Red Bluff	N. 40 10	W. 122 15	3.59 a.m.	332	101	29.68	753.9	30.05	763.3	39.7	4.3	81.3	14	9	1	.....	5	.....	.....	.....	.....	5376	8652	3	2.21	56.1
Rio Grande City	N. 26 22	W. 98 45	5.33 a.m.	230	70	29.85	758.2	30.10	764.5	57.7	14.3	83.5	9	.....	1	.....	2	14	3	.....	.....	6007	9667	2	0	0
Rochester	N. 43 08	W. 77 42	6.57 a.m.	621	189	29.35	745.5	30.06	763.5	25.4	—3.7	85.1	.....	4	8	2	5	4	3	3	.....	9341	15837	9	1.94	49.3
Roseburg	N. 43 13	W. 123 20	3.55 a.m.	511	156	29.47	748.5	30.04	763.0	33.5	0.8	86.1	3	4	.....	4	4	2	5	.....	7	1916	3132	5	3.71	94.2
Sacramento	N. 38 35	W. 121 30	4.02 a.m.	64	20	29.96	761.0	30.03	762.7	42.2	5.7	89.7	10	3	1	1	3	7	.....	2	1	5170	8320	3	4.46	113.3
Saint Louis	N. 38 38	W. 90 12	6.07 a.m.	583	178	29.44	747.8	30.10	764.5	33.0	0.6	81.2	1	9	5	1	2	5	2	4	.....	8826	14204	7	4.43	112.5
Saint Michael, Ft	N. 63 48	W. 162 00	1.20 a.m.	30	9	30.14	765.5	30.17	766.3	9.4	-12.6	91.8	5	.....	1	1	7	1	.....	9	5	.....	.....	5	0.17	4.3
Saint Paul	N. 44 58	W. 93 03	5.56 a.m.	801	244	29.17	740.9	30.10	764.5	7.2	-13.8	77.9	5	8	1	2	2	.....	.....	9	7	4401	7082	7	1.27	32.3
Saint Vincent	N. 48 56	W. 97 14	5.39 a.m.	804	245	29.27	743.4	30.21	768.1	—13.6	-25.3	79.4	4	11	.....	2	7	3	.....	.....	2	5119	8238	5	0.24	6.1
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.59	650.0	30.15	765.8	27.3	—2.6	60.8	2	8	1	.....	1	5	1	.....	11	4075	6558	6	2.23	56.6
San Diego	N. 32 43	W. 117 10	4.19 a.m.	67	20	29.95	760.7	30.02	762.5	51.7	10.9	77.1	3	2	3	3	3	3	1	11	.....	4937	7945	6	9.05	229.9
Sandusky	N. 41 25	W. 82 40	6.37 a.m.	639	195	29.34	745.2	30.06	763.5	29.1	—1.6	77.2	.....	4	7	4	1	3	4	6	.....	7804	12559	8	5.48	139.2
Sandy Hook	N. 40 28	W. 74 00	7.12 a.m.	28	8	30.07	763.8	30.10	764.5	34.7	1.5	83.8	2	5	5	1	2	1	4	7	2	10893	17530	6	4.72	119.9
Sanford	N. 28 48	W. 81 23	6.42 a.m.	50	15	30.08	764.0	30.13	765.3	59.9	15.5	88.3	1	7	1	3	3	7	1	3	3	4530	7290	4	4.40	111.8
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	29.95	760.7	30.02	762.5	47.0	8.3	83.1	5	5	4	3	2	4	2	3	1	5074	8166	5	6.65	168.9
Savannah	N. 32 05	W. 81 05	6.44 a.m.	87	26	30.05	763.3	30.14	765.5	52.5	11.4	80.3	4	4	5	2	8	3	1	1	1	5285	8505	4	3.44	87.4
Shaw, Fort	N. 47 31	W. 111 48	4.41 a.m.	3550	1082	26.36	669.5	30.21	767.3	6.1	-14.4	80.5	1	2	9	9	.....	1	1	5	1	6032	9707	6	0.82	20.8
Shreveport	N. 32 30	W. 93 40	5.53 a.m.	227	69	29.86	758.4	30.10	764.5	49.1	9.5	79.5	4	3	1	2	10	2	3	3	1	5082	8178	6	5.49	139.4
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	30.03	762.7	30.10	764.5	29.3	—1.5	75.0	.....	1	.....	.....	.....	3	15	9	1	5009	8061	4	6.15	156.2
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.08	764.0	30.12	765.0	51.5	10.8	87.9	3	2	7	7	3	1	.....	6	.....	7613	12252	6	2.88	73.2
Spokane Falls	N. 47 40	W. 117 25	4.18 a.m.	1910?	582?	27.97	710.4	30.10	764.5	16.4	—8.7	81.1	.....	3	2	2	.....	1	3	5	13	1894	3048	6	3.04	77.2
Springfield, Ill	N. 39 48	W. 89 39	6.10 a.m.	644	196	29.30	745.7	30.09	764.3	29.6	—1.3	81.3	3	6	6	.....	6	3	2	3	.....	7403	11914	6	4.24	107.7
Stockton, Fort	N. 30 53	W. 102 53	5.16 a.m.	3010	917	29.99	685.5	30.12	765.0	42.5	5.8	69.4	5	.....	.....	3	4	4	.....	.....	13	5139	8270	5	0.88	22.4
Tatoosh Id	N. 48 23	W. 124 44	3.49 a.m.	86	20	29.92	760.0	.....	.....	35.3	1.8	84.6	.....	.....	2	3	2	2	17	.....	3	11705	18837	6	6.04	153.4
Thomas, Camp	N. 33 04	W. 110 02	4.48 a.m.	2710	826	27.30	693.4	30.13	765.3	37.1	2.8	79.2	.....	.....	4	1	5	1	1	.....	17	.....	.....	4	2.94	74.7
Toledo	N. 41 40	W. 83 34	6.34 a.m.	651	198	29.32	744.7	30.06	763.5	27.5	—2.5	83.6	1	6	5	3	3	2	.....	6	3	5520	8883	9	3.03	77.0
Unalashka	N. 53 53	W. 166 32	1.02 a.m.	13	4	29.77	756.1	29.79	756.7	36.0	2.2	83.8	3	1	.....	1	8	7	9	.....	.....	11621	18702	9	26.19	665.2
Vicksburg	N. 32 22	W. 90 53	6.04 a.m.	244	74	29.86	758.4	30.12	765.0	51.0	10.6	78.7	4	2	.....	1	4	13	2	2	1	5348	8607	5	6.73	170.9
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	29.99	761.7	30.11	761.8	37.9	3.3	86.5	2	8	1	2	2	4	1	7	2	4054	6524	6	6.84	173.7
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	25.96	659.4	30.08	764.0	15.1	—9.4	87.0	3	3	11	2	3	.....	5	2	.....	5930	9543	4	0.50	12.7
Wilmington	N. 34 14	W. 77 57	6.56 a.m.	52	16	30.07	763.8	30.13	765.3	51.9	11.1	82.9	2	3	5	6	3	2	2	4	2	5577	8975	6	3.80	96.5
Yankton	N. 42 54	W. 97 28	5.38 a.m.	1228	374	28.78	731.0	30.20	767.1	7.3	-13.7	72.8	5	9	3	.....	2	1	2	4	3	6817	10961	5	1.80	45.7
Yuma	N. 32 45	W. 114 36	4.30 a.m.	141	43	29.87	758.7	30.02	762.5	51.5	10.8	66.9	8	1	.....	.....	.....	4	1	7	8	4780	7692	3	1.58	40.1
Sub-Series.																											
Behring Island	N. 55 12	E. 165 55	11.12 p.m.	20	6	29.54	750.3	29.56	750.8	28.5	—1.9	86.1	7	.....	.....	4	1	4	6	7	.....	12614	20301	9	1.49	37.8
Bluefields	N. 12 00	W. 83 43	6.31 a.m.	?	?	.....	.....	.....	.....	75.3	24.1	.....	3	17	1	.....	.....	.....	.....	7	1	.....	.....	6	6.39	162.3
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	22.01	558.9	.....	.....	52.9	11.6	83.0	3	1	4	3	1	2	.....	.....	15	.....	.....	5	2.46	62.5
Chimo, Ft.	N. 59 00	W. 68 00	7.36 a.m.	126?	38?	29.86	758.4	30.02	762.5	—19.3	—28.5	100.0	1	.....	2	11	5	1	.....	.....	9	10241	16481	5	0.70	17.8
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	.....	.....	30.09	764.3	69.1	20.6	84.0	26	.....	.....	.....	.....	.....	1	.....	2	.....	.....	3	0.11	2.8
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.03	762.8	30.03	762.7	76.7	24.8	87.0	1	.....	.....	.....	.....	6	16	6	.....	.....	.....	6	8.70	221.0
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.38	746.2	29.94	760.5	78.8	26.0	86.7	4	.....	.....	.....	6	.....	.....	.....	19	.....	.....	9	1.94	49.3
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	74.0	23.3	89.8	.....	.....	.....	.....	.....	.....	3	26	.....	.....	.....	2	0.01	0.3
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	30.07	763.8	30.14	765.5	—31.1	—35.1	.....	.....	14	7	7	1	.....	.....	.....	.....	.....	.....	3	0.18	4.6
U. S. COLOMBIA. *Sub-Series.*																											
Colon	N. 9 22	W. 79 55	6.50 a.m.	7	2	29.93	760.2	29.95	760.6	74.1	23.4	83.6	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....
Naos	N. 8 55	W. 79 32	6.50 a.m.	39	12	29.91	759.8	29.98	761.5	72.5	22.5	88.0	28	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....

OCEAN SQUARE DATA FOR FEBRUARY, 1884.

Location of Centre of each Square.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
	Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 12.5° W. 22.5°	30.00	762.0	72.9	22.7	2						6	20	1		3.9
12.5 27.5	30.03	762.7	73.6	23.1	1						5	23			4.3
12.5 32.5	30.05	763.3	75.1	23.9							10	17		2	4.6
12.5 37.5	30.07	763.8	76.1	24.5	1						10	11		7	4.5
12.5 42.5	30.07	763.8	76.5	24.7							12	4		13	4.7
12.5 47.5	30.08	764.0	76.2	24.6							11	6		12	5.1
12.5 52.5	30.08	764.0	76.4	24.7		1					15	7		6	4.8
17.5 22.5	30.05	763.3	69.2	20.7	3						12	14			4.3
17.5 27.5	30.07	763.8	70.6	21.4	2						10	17			4.4
17.5 32.5	30.0	764.5	70.1	21.2							12	15		2	4.9
17.5 37.5	30.12	765.0	73.8	23.2	1						13	9		6	4.9
17.5 42.5	30.13	765.3	74.5	23.6						1	13	6		9	4.9
17.5 47.5	30.14	765.5	75.0	23.9							15	4		10	5.1
17.5 52.5	30.13	765.3	75.0	23.9		1				2	15	7		4	4.8
17.5 57.5	30.10	764.5	76.7	24.8	1	2					18	8			4.5
22.5 22.5	30.09	764.3	66.9	19.4	8	1				1	12	7			4.3
22.5 27.5	30.13	765.3	68.4	20.2	8					1	7	12	1		4.3
22.5 32.5	30.10	766.1	70.6	21.4	7					2	5	12	1	2	4.7
22.5 37.5	30.18	766.6	71.9	22.2	2	2		1		1	12	9		2	4.7
22.5 42.5	30.19	766.8	72.5	22.5	2		1		1	2	14	7		2	4.8
22.5 47.5	30.18	766.6	72.7	22.6			1			4	14	6	1	3	4.5
22.5 52.5	30.15	765.8	72.7	22.6	1	1		2		5	13	4	1	2	4.5
22.5 57.5	30.14	765.5	73.6	23.1	3	1	1	1		5	14	2	2		4.2
22.5 62.5	30.14	765.5	71.1	23.4	1		1	1		1	15	8	1	1	4.2
22.5 67.5	30.14	765.5	74.2	23.4	3	1		1		3	13	7	1		4.3
22.5 72.5	30.13	765.3	74.5	23.6	1	1		1	1	7	14	4			4.2
27.5 22.5	30.14	765.5	64.5	18.1	4	5	2		2	2	4	8	1	1	4.1
27.5 27.5	30.17	766.3	66.0	18.9	7	5		1	1	4	5	5		1	4.5
27.5 32.5	30.19	766.8	67.6	19.8	7	4	1	1	1	3	9	3			4.7
27.5 37.5	30.22	767.6	68.2	20.1	7		3	2	1	3	5	5		3	4.7
27.5 42.5	30.24	768.1	69.3	20.7	4	1	3	1	2	4	8	4	1	1	4.5
27.5 47.5	30.23	767.8	69.5	20.8	2	1	3	1	2	5	8	3		4	4.8
27.5 52.5	30.21	767.3	69.7	20.9	5	2	1	3	4	1	12			1	4.3
27.5 57.5	30.19	766.8	70.0	21.1	4	1	2	3	2	4	10	1	2		3.9
27.5 62.5	30.18	766.6	69.8	21.0	3	4	1	1		4	9	4	3		3.7
27.5 67.5	30.17	766.3	70.9	21.6	4	2	1		3	7	6	4	2		4.0
27.5 72.5	30.18	766.6	71.8	22.1	1	3		2	8	2	5	7	1		4.3
27.5 77.5	30.15	765.8	70.0	21.1	1	1	1	2	12	3	7	2			3.9
32.5 12.5	30.11	764.8	60.8	16.0	2	2	3	4	7	3	2	1	4	1	3.0
32.5 17.5	30.12	765.0	60.7	15.9	3	2	4	9	2	2	3		4		2.0
32.5 22.5	30.15	765.8	61.6	16.4	4	3	7	4	1	3	1	5	1		3.9
32.5 27.5	30.17	766.3	62.9	17.2	4	6	5	3	2	1	4	2	2		4.2
32.5 32.5	30.20	767.1	64.1	17.8	5	8	3	4	1	1	2	4		1	4.8
32.5 37.5	30.23	767.8	65.1	18.4	6	8	5	2		4	1		1	2	4.5
32.5 42.5	30.26	768.6	64.7	18.2	5	5	5	2	2	3	2	3	1	1	4.7
32.5 47.5	30.26	768.6	64.5	18.1	2	4	5	1	3	2	4	5		3	5.3
32.5 52.5	30.23	767.8	64.9	18.3	3	2	3	4	1	4	7	1	3	1	4.4
32.5 57.5	30.21	767.3	65.5	18.6	2	3	4	6	4	3	6			1	4.2
32.5 62.5	30.18	766.6	65.6	18.7	2	3	5	4	3	4	3	3	2		3.6
32.5 67.5	30.18	766.6	66.0	18.9	5	1	3	2	6	4	4	3	1		4.2
32.5 72.5	30.15	765.8	64.9	18.3	2	4	1	5	7	3	4	1		2	4.3
32.5 77.5	30.13	765.3	60.0	15.6	5	1	6	2	7	1	3	3		1	4.7
37.5 12.5	30.05	763.3	56.0	13.3	2	3	4	10	3	2	1	2	2		3.7
37.5 17.5	30.05	763.3	57.3	14.1	1	10	7	5	1		3	2			4.3
37.5 22.5	30.09	764.3	57.9	14.4	2	10	7	3	1		1	5			4.3
37.5 27.5	30.12	765.0	58.3	14.6	4	5	11	1	2		1	5			4.2
37.5 32.5	30.14	765.5	59.9	15.5	1	10	6	5	2	3	1	1			5.1
37.5 37.5	30.16	766.1	59.2	15.1	3	8	10	3	1	3				1	5.4
37.5 42.5	30.19	766.8	58.4	14.7	6	6	7	3	3	1		2		1	5.7
37.5 47.5	30.21	767.3	57.2	14.0	5	2	8	4	2	1	3	2	1	1	5.2
37.5 52.5	30.20	767.1	56.7	13.7	3	4	5	6	3	2	1	5			5.6
37.5 57.5	30.17	766.3	58.0	14.4	4	4	5	8	2	3	2	1			5.4
37.5 62.5	30.15	765.8	57.9	14.4	2	7	1	8	2	6		2	1		5.4
37.5 67.5	30.14	765.5	55.4	13.0	4	5	3	5	6	1	2	3			5.5
37.5 72.5	30.11	764.8	48.7	9.3	5	4	1	6	3	2	2	5	1		4.7
42.5 12.5	29.93	760.2	53.7	12.1	1	1	8	13	4		1	1			4.6
42.5 17.5	29.90	759.4	56.1	13.4	3	3	14	5				3	1		5.3
42.5 22.5	29.92	760.0	55.4	13.0	3	9	10	4	1			2			5.7
42.5 27.5	29.96	761.0	54.0	12.2	4	6	9	7	1			1	1		5.7
42.5 32.5	29.96	761.0	53.4	11.9	3	12	7	6	1						5.8
42.5 37.5	30.02	762.5	52.8	11.6	2	13	5	3	2		2	2			5.9
42.5 42.5	30.09	764.3	48.7	9.3	6	8	7	4	2	1		1			5.7
42.5 47.5	30.11	764.8	43.7	6.5	2	11	4	3	4	1		2		2	5.4
42.5 52.5	30.12	765.0	40.5	4.7	2	8	4	5	3	1	3	3			5.3
42.5 57.5	30.10	764.5	42.7	5.9	2	5	8	3	2	2	4	1	1	1	5.3
42.5 62.5	30.07	763.8	38.4	3.6	4	5	4	4	2	4	2	4			4.9
42.5 67.5	30.09	764.3	33.5	0.8	5	4	3	2	2	7	3	1		2	4.4
47.5 12.5	29.75	755.6	51.3	10.7	1	3	4	10	9			2			5.7
47.5 17.5	29.70	754.4	50.8	10.4	2	5	9	6	5	1		1			6.2
47.5 22.5	29.68	753.9	48.7	9.3	1	9	8	5	6						6.3
47.5 27.5	29.71	754.6	48.1	8.9	1	12	8	5	3						6.6
47.5 32.5	29.73	755.1	47.1	8.4	1	15	8	3	2						6.7
47.5 37.5	29.83	757.7	44.2	6.8		18	8	1	2						6.3
47.5 42.5	29.92	760.0	37.9	3.3	4	12	6	6	1						5.7
47.5 47.5	29.95	760.7	29.9	−1.2	1	13	8	5	2						5.4
52.5 12.5	29.64	752.8	47.4	8.6	1	1	10	6	7	3		1			6.1
52.5 17.5	29.54	750.3	46.6	8.1	1	5	7	5	8	2	1				6.4
52.5 22.5	29.50	749.3	44.4	6.9	2	9	3	6	6	2			1		6.3
52.5 27.5	29.48	748.8	42.3	5.7	4	8	7	6	3	1					6.7
52.5 32.5	29.52	749.8	39.0	3.9	3	9	8	6	1	2					6.3
52.5 37.5	29.55	750.6	34.9	1.6	2	13	11	2		1					6.3
52.5 42.5	29.67	753.6	29.5	−1.4	1	15	8	4			1				6.1
52.5 47.5	29.75	755.6	21.9	−5.6		11	10	4	2	1		1			5.7
57.5 12.5	29.49	749.0	42.7	5.9	3	1	3	8	5	7		2			6.3
57.5 17.5	29.40	746.7	41.3	5.2	4	2	5	6	4	7		1			6.6
57.5 22.5	29.34	745.2	38.8	3.8	4	3	1	10	2	7	2				6.7
57.5 27.5	29.31	744.5	36.0	2.2	6	3	4	7	1	4	2	1		1	6.9
57.5 32.5	29.36	745.7	31.2	−0.4	5	7	4	3	1	3	3	3			6.6
57.5 37.5	29.38	746.2	26.2	−3.2	7	10	5	2	1	2	1	1			6.1
57.5 42.5	29.45	748.0	20.7	−6.3	7	12	2	2		2	1	1		1	5.9
57.5 47.5	29.53	750.0	15.0	−9.4	4	13	3	2	2		1	1	1	2	5.0

ANGRA, AZORES.

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Barometer. Corrected for instrumental error and temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative Humidity Per cent.	Wind. Direction. From	Wind. Velocity. Miles perhour	Wind. Velocity. Metrs prsec.	Wind. Force 0-10	Clouds. Amount. Upper. 0-10	Clouds. Amount. Lower. 0-10	Clouds. Direction. Up'er From	Clouds. Direction. Lo'er From	Rainfall in past 24 hours. Inch.	Rainfall in past 24 hours. Mill.	WEATHER.
1884.																		
January 1					59.7	15.4	81	s.	16.8	7.5			6			0.394	10.0	
2					57.2	14.0	91	nw.	15.0	6.7			4			0.748	19.0	
3					50.0	10.0	76	wnw.	22.4	10.0			4			0.134	3.4	
4					58.3	14.6	80	wnw.	10.5	4.7			4			0.260	6.6	
5					59.4	15.2	83	calm	0	0			2			0	0	
6					60.1	15.6	75	ne.	5.6	2.5			2			0	0	
7					56.8	13.8	80	e.	6.3	2.8			5			0	0	
8					61.5	16.4	92	se.	8.7	3.9			6			0	0	
9					60.4	15.8	85	e.	11.2	5.0			4			0	0	
10					60.8	16.0	87	se.	9.8	4.4			3			0	0	
11					60.6	15.9	85	ese.	15.0	6.7			2			0	0	
12					61.3	16.3	87	ese.	18.6	8.3			7			0	0	
13					61.5	16.4	87	ese.	22.4	10.0			4			0	0	
14					60.3	15.7	90	ese.	16.8	7.5			7			1.142	29.0	
15					61.5	16.4	96	se.	11.2	5.0			8			0.276	7.0	
16					62.2	16.8	90	se.	8.1	3.6			4			0.098	2.5	
17					62.6	17.0	90	se.	1.8	0.8			3			0	0	
18					62.1	16.7	87	calm	0	0			4			0	0	
19					60.6	15.9	87	w.	8.7	3.9			4			0	0	
20					61.2	16.2	91	ssw.	3.1	1.4			5			0	0	
21					62.6	17.0	78	sw.	4.9	2.2			3			0	0	
22					61.7	16.5	83	wsw.	4.3	1.9			3			0	0	
23					62.2	16.8	85	wnw.	8.1	3.6			4			0	0	
24					61.5	16.4	83	wnw.	9.8	4.4			3			0	0	
25					60.3	15.7	94	nw.	13.6	6.1			5			0	0	
26					62.1	16.7	85	w.	9.8	4.1			3			0	0	
27					61.5	16.4	92	wnw.	9.4	4.2			5			0	0	
28					61.5	16.4	77	sw.	16.8	7.5			4			0	0	
29					57.6	14.2	93	w.	11.2	5.0			10			0	0	
30					61.0	16.1	69	wsw.	13.0	5.8			6			0.535	13.6	
31					53.4	11.9	57	wnw.	17.4	7.8			7			0.689	17.5	
Mean					60.1	15.6	84.8		10.5	4.7			4.5			4.276	108.6	
February 1					55.6	13.1	77	wnw.	12.5	5.6			4			0.496	12.6	
2					59.7	13.7	82	ese.	9.8	4.4			4			0	0	
3					56.5	13.6	67	ese.	9.4	4.2			5			0	0	
4					55.8	13.2	60	e.	6.9	3.1			4			0	0	
5					55.6	13.1	79	ne.	7.4	3.3			3			0	0	
6					57.2	14.0	86	w.	5.6	2.5			4			0	0	
7					54.0	12.2	70	nne.	13.6	6.1			3			0.299	7.6	
8					58.1	14.5	89	nw.	12.5	5.6			4			0	0	
9					59.7	15.4	76	nw.	9.4	4.2			5			0	0	
10					55.4	13.0	73	nne.	5.6	2.5			4			0	0	
11					59.7	15.4	85	wnw.	13.6	6.1			4			0.217	5.5	
12					55.2	12.9	79	nw.	18.1	8.1			4			0.157	4.0	
13					54.3	12.4	76	w.	16.1	7.2			5			0.197	5.0	
14					46.8	8.2	70	nnw.	22.4	10.0			5			0.669	17.0	
15					48.6	9.2	71	n.	12.5	5.6			3			0.252	6.4	
16					53.1	11.7	95	w.	10.5	4.7			10			0.118	3.0	
17					55.0	12.8	70	wnw.	28.0	12.5			3			0.417	10.6	
18					47.3	8.5	72	n.	24.2	10.8			4			0.315	8.0	
19					53.2	11.8	67	wsw.	13.6	6.1			3			0.118	3.0	
20					57.0	13.9	95	wsw.	24.8	11.1			9			0	0	
21					59.4	15.2	89	wsw.	16.1	7.2			8			0.197	5.0	
22					55.4	13.0	73	n.	6.3	2.8			3			0.177	4.5	
23					53.8	12.1	70	se.	8.7	3.9			4			0	0	
24					58.8	14.9	91	s.	8.1	3.6			7			0	0	
25					56.1	13.4	77	n.	28.0	12.5			5			0.354	9.0	
26					57.2	14.0	91	wnw.	11.2	5.0			7			0	0	
27					54.0	12.2	72	wnw.	13.0	5.8			4			0.157	4.0	
28					57.4	14.1	93	w.	8.1	3.6			5			0	0	
29					55.4	13.0	79	w.	15.0	6.7			9			0.197	5.0	
Mean					55.2	12.9	78.8		13.4	6.0			4.9			4.339	110.2	

IVIGTUT, GREENLAND (N. 6.° 12′, W. 48° 00′).

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Barometer. Corrected for instrumental error and temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative Humidity Per cent.	Wind. Direction. From	Wind. Velocity. Miles perhour	Wind. Velocity. Metrs prsec.	Wind. Force 0-10	Clouds. Amount. Upper. 0-10	Clouds. Amount. Lower. 0-10	Clouds. Direction. Up'er From	Clouds. Direction. Lo'er From	Rainfall in past 24 hours. Inch.	Rainfall in past 24 hours. Mill.	WEATHER.
1883.																		
October 1	30.17	766.2	30.19	766.7	32.9	0.5		n.			2		3					
2	29.55	750.6	29.57	751.1	32.2	0.1		calm			0		10					
3	29.10	739.1	29.12	739.6	40.6	4.8		se.			6-7		10					raining.
4	29.80	756.9	29.82	757.4	33.1	0.6		calm			0		7					
5	29.42	747.3	29.44	747.8	39.6	4.2		s.			4.6		10					raining.
6	29.59	750.9	29.58	751.4	33.3	0.7		calm			0		10					snowing.
7	29.60	751.8	29.62	752.3	32.9	0.5		calm			0		0					foggy.
8	29.69	754.1	29.71	754.6	33.6	0.9		calm			0		10					snowing.
9	30.07	763.7	30.09	764.2	30.7	— 0.7		calm			0		9					
10	29.68	753.8	29.70	754.3	30.1	2.3		se.			4		10					snowing.
11	29.43	747.6	29.45	748.1	33.4	0.8		calm			0		9					
12	29.84	758.0	29.86	758.5	32.4	0.2		calm			0		1					
13	29.76	756.0	29.78	756.5	24.4	— 4.2		calm			0		1					
14	29.41	747.1	29.43	747.6	24.4	— 4.2		calm			0		9					
15	29.34	745.2	29.36	745.7	20.3	— 6.5		calm			0		6					
16	29.22	742.1	29.24	742.6	25.0	— 3.9		ne.			2		9					
17	29.32	744.6	29.34	745.1	19.2	— 7.1		ne.			2		1					
18	29.66	753.3	29.68	753.8	23.5	— 4.7		ne.			6		1					
19	29.92	759.9	29.94	760.4	28.6	— 1.9		calm			0		10					
20	29.85	758.1	29.87	758.6	36.1	2.3		calm			0		10					
21	29.60	751.8	29.62	752.3	32.0	0.0		nw.			7		9					
22	29.87	758.8	29.89	759.3	29.3	— 1.5		n.			6		9					
23	29.74	755.3	29.76	755.8	25.5	— 3.0		n.			2		6					
24	29.65	753.2	29.67	753.7	26.6	— 3.0		n.			2		9					
25	29.47	748.5	29.49	749.0	28.0	— 2.2		calm			0		10					
26	29.49	749.1	29.51	749.6	22.5	— 5.3		calm			0		5					
27	29.57	751.1	29.59	751.6	23.5	— 4.7		calm			0		9					
28	29.69	754.0	29.71	754.5	23.0	— 5.0		calm			0		1					
29	29.26	743.1	29.28	743.6	23.4	— 4.8		calm			0		8					
30	29.39	746.4	29.41	746.9	21.7	— 5.7		calm			0		2					
31	29.35	745.5	29.37	746.0	14.5	— 9.7		calm			0		0					
Mean	29.60	751.7	29.61	752.2	28.4	— 2.0							6.6					

IVIGTUT, GREENLAND—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Velocity. Miles per hour	Metrs pr sec.	Force 0-10	Clouds. Amount. Upper. 0-10	Lower. 0-10	Direction. Up'er From	Lo'er From	Rainfall in past 24 hours. Inch.	Mill.	WEATHER.
1883.																		
November 1	29.28	743.6	29.30	744.1	20.1	— 6.6		calm			0		0					
2	29.71	754.7	29.73	755.2	19.4	— 7.0		calm			0		1					
3	29.42	747.3	29.44	747.8	19.8	— 6.8		calm			0		2					
4	29.72	755.0	29.74	755.5	28.2	— 2.1		calm			0		10					snowing.
5	29.41	747.1	29.43	747.6	32.2	0.1		calm			0		10					snowing.
6	29.44	747.8	29.46	748.3	27.1	— 2.7		calm			0		10					
7	29.48	748.7	29.50	749.2	15.1	— 9.4		calm			0		7					
8	29.83	757.6	29.85	758.1	17.8	— 7.9		calm			0		10					snowing.
9	29.86	758.5	29.88	759.0	17.1	— 8.3		calm			0		10					
10	29.43	747.5	29.45	748.0	30.9	— 0.6		calm			0		10					
11	29.50	749.4	29.52	749.9	21.7	— 5.7		calm			0		5					
12	29.18	741.2	29.20	741.7	17.1	— 8.3		calm			0		9					
13	28.95	735.3	28.97	735.8	19.8	— 6.8		calm			0		0					
14	28.70	729.0	28.72	729.5	29.5	— 1.4		se.			2		9					
15	29.06	738.1	29.08	738.6	27.9	— 2.3		calm			0		9					
16	29.10	739.2	29.12	739.7	28.9	— 1.7		nw.			6		10					
17	28.95	735.3	28.97	735.8	23.7	— 4.6		nw.			6		10					snowing.
18	28.90	734.0	28.92	734.5	22.8	— 5.1		calm			0		10					
19	29.33	745.0	29.35	745.5	21.7	— 5.7		calm			0		10					snowing.
20	29.50	749.2	29.52	749.7	24.3	— 4.3		nw.			6		10					snowing.
21	29.73	755.1	29.75	755.6	14.9	— 9.5		calm			0		2					
22	29.52	749.7	29.54	750.2	11.8	—11.2		n.			2		1					
23	29.38	746.2	29.40	746.7	16.5	— 8.6		calm			0		10					
24	29.51	749.5	29.53	750.0	22.3	— 5.4		nw.			2		10					
25	29.72	755.0	29.74	755.5	11.5	—11.4		calm			0		0					
26	29.85	758.2	29.87	758.7	9.7	—12.4		calm			0		4					
27	30.00	762.0	30.02	762.5	6.6	—14.1		calm			0		0					
28	29.70	754.3	29.72	754.8	31.6	— 0.2		se.			4-7		10					
29	29.72	754.9	29.74	755.4	22.8	— 5.1		calm			0		10					
30	28.69	728.6	28.71	729.1	33.4	0.8		se.			4-7		10					snowing.
Mean	29.42	747.2	29.44	747.7	21.6	— 5.8							7.0					
December 1	30.04	763.0	30.06	763.5	15.1	— 9.4		calm			0		4					
2	30.04	763.0	30.06	763.5	11.8	—11.2		calm			0		2					
3	29.32	744.6	29.34	745.1	35.2	1.8		se.			2-6		10					raining.
4	29.84	757.9	29.86	758.4	41.2	5.1		calm			0		7					
5	29.45	748.0	29.47	748.5	39.7	4.3		calm			0		10					raining.
6	29.45	747.9	29.47	748.4	31.1	— 0.5		calm			0		10					snowing.
7	29.63	752.7	29.65	753.2	24.1	— 4.4		n.			2		8					
8	29.75	755.7	29.77	756.2	10.4	—12.0		ne.			4		7					
9	29.31	744.5	29.33	745.0	8.2	—13.2		calm			0		9					
10	29.52	749.8	29.54	750.3	7.3	—13.7		calm			0		6					
11	29.72	754.8	29.74	755.3	5.2	—14.9		calm			0		10					snowing.
12	29.37	740.0	29.39	746.5	3.4	—15.9		calm			0		10					
13	29.44	747.7	29.46	748.2	7.3	—13.7		calm			0		10					
14	29.63	752.6	29.65	753.1	8.6	—13.0		calm			0		7					
15	29.65	753.0	29.67	753.5	27.1	— 2.7		se.			2-5		10					
16	28.98	736.1	29.00	736.6	40.8	4.9		se.			6-9		10					raining.
17	29.68	753.8	29.70	754.3	22.5	— 5.3		sw.			4-6		10					snowing.
18	30.22	767.6	30.24	768.1	15.6	— 9.1		s.			4		10					
19	29.55	750.5	29.57	751.0	22.5	— 5.3		nw.			6		10					
20	29.30	744.2	29.32	744.7	9.7	—12.4		calm			0		5					
21	29.48	748.7	29.50	749.2	13.5	—10.3		n.			4		9					
22	29.71	751.7	29.73	755.2	— 2.0	— 8.9		calm			0		0					
23	29.05	737.8	29.07	738.3	2.8	—16.2		calm			0		5					
24	29.51	749.6	29.53	750.1	— 4.9	—20.5		calm			0		2					
25	29.80	756.8	29.82	757.3	— 4.4	—20.2		calm			0		0					
26	29.96	760.9	29.98	761.4	— 4.2	—20.1		calm			0		2					
27	29.72	754.8	29.74	755.3	0.1	—17.7		calm			0		2					
28	29.74	755.5	29.76	756.0	— 0.6	—18.1		ne.			4		3					
29	29.55	750.0	29.57	751.1	— 2.9	—19.4		calm			0		5					
30	29.55	750.6	29.57	751.1	1.2	—17.1		calm			0		0					
31	29.95	760.6	29.97	761.1	6.8	—14.0		calm			0		0					
Mean	29.61	752.1	29.63	752.6	12.7	—10.7							6.2					
1884.																		
January 1	30.15	765.9	30.17	766.4	5.5	—14.7		calm			0		0					
2	29.90	759.5	29.92	760.0	16.2	— 8.8		calm			0		10					snowing.
3	29.94	760.5	29.96	761.0	42.8	6.0		se.			4		7					
4	29.10	739.2	29.12	739.7	44.4	6.9		se.			7-9		10					
5	28.93	734.9	28.95	735.4	22.1	— 5.5		calm			0		9					
6	29.18	741.1	29.20	741.6	19.4	— 7.0		se.			6		10					snowing.
7	28.72	729.6	28.74	730.1	16.3	— 8.7		calm			0		10					
8	28.74	729.9	28.76	730.4	9.0	—12.8		calm			0		5					
9	29.21	742.0	29.23	742.5	14.0	—10.0		nw.			6		9					
10	29.92	759.9	29.94	760.4	5.4	—14.8		calm			0		0					
11	29.10	739.2	29.12	739.7	35.8	2.1		se.			2		10					raining.
12	29.41	747.0	29.43	747.5	26.6	— 3.0		calm			0		10					snowing.
13	29.57	751.1	29.59	751.6	17.2	— 8.2		calm			0		7					
14	29.61	752.1	29.63	752.6	12.9	—10.6		calm			0		10					
15	29.59	751.5	29.61	752.0	11.7	—11.3		calm			0		8					
16	28.87	733.4	28.89	733.9	24.1	— 4.4		nw.			6		10					
17	29.20	741.6	29.22	742.1	0.1	—17.7		calm			0		1					
18	28.98	736.1	29.00	736.6	5.0	—15.0		calm			0		0					
19	29.35	745.6	29.37	746.1	2.8	—16.2		calm			0		2					
20	29.72	755.0	29.74	755.5	— 3.5	—19.7		calm			0		2					
21	29.53	750.1	29.55	750.6	—11.6	—24.2		calm			0		0					
22	29.34	745.2	29.36	745.7	—17.9	—27.7		calm			0		0					
23	29.56	750.8	29.58	751.3	— 8.1	—22.3		calm			0		10					
24	29.30	744.2	29.32	744.7	9.5	—12.5		calm			0		9					
25	29.48	748.9	29.50	749.4	— 6.9	—21.6		calm			0		9					
26	29.24	742.7	29.26	743.2	— 3.1	—19.5		calm			0		8					
27	29.38	746.3	29.40	746.8	— 0.2	—17.9		calm			0		10					
28	29.50	749.2	29.52	749.7	— 0.8	—18.2		calm			0		2					
29	29.40	746.7	29.42	747.2	27.1	— 2.7		calm			0		10					
30	29.71	754.5	29.72	755.0	11.8	—11.2		calm			0		9					
31	29.50	749.2	29.52	749.7	27.9	— 2.3		sse.			6		10					snowing.
Mean	29.39	746.5	29.41	747.0	11.5	—11.4							7.0					

CAMPO MAJOR (N. 39° 02′, W. 6° 59′).

DATE.	Barometer. Corrected for instrumental error and temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Force	Clouds. Amount. Upper.	Clouds. Amount. Lower.	Clouds. Direction. Upper	Clouds. Direction. Lo'er	Rainfall or melted snow in past 24 hours.		WEATHER
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metrs persec.	0–10	0–10	0–10	From	From	Inch.	Mill.	
1883.																		
September 1	28.97	735.7	29.93	760.3	72.7	22.6	53	w.	9.8	4.4	.....	.....	8	.....	.....	0	0	
2	29.02	737.1	30.15	765.9	71.1	21.7	45	sw.	8.1	3.6	.....	.....	8	.....	.....	0.020	0.5	
3	28.94	735.1	29.91	759.8	71.8	22.1	44	wnw.	8.7	3.9	.....	.....	2	.....	.....	0	0	
4	29.20	741.7	30.18	766.5	71.6	22.0	39	n.	9.4	4.2	.....	.....	2	.....	.....	0	0	
5	29.21	741.9	30.19	766.7	76.6	24.8	30	nnw.	4.9	2.2	.....	.....	2	.....	.....	0	0	
6	29.19	741.4	30.15	765.8	82.0	27.8	34	ese.	8.1	3.6	.....	.....	0	.....	.....	0	0	
7	29.03	737.4	29.97	761.3	87.8	31.0	26	ene.	6.3	2.8	.....	.....	0	.....	.....	0	0	
8	29.04	737.7	29.98	761.5	91.0	32.8	26	ssw.	1.3	0.6	.....	.....	0	.....	.....	0	0	
9	29.00	736.7	29.94	760.5	90.1	32.3	38	wnw.	1.3	0.6	.....	.....	0	.....	.....	0	0	
10	29.04	737.7	30.00	762.0	81.0	27.2	56	sw.	5.0	2.5	.....	.....	2	.....	.....	0	0	
11	29.11	739.5	30.07	763.7	85.1	29.5	50	wnw.	3.8	1.7	.....	.....	4	.....	.....	0	0	
12	29.08	738.6	30.04	762.9	80.2	26.8	46	n.	8.1	3.6	.....	.....	4	.....	.....	0	0	
13	29.03	737.3	29.98	761.6	80.2	26.8	39	e.	7.4	3.3	.....	.....	3	.....	.....	0	0	
14	28.92	734.6	29.87	758.7	82.2	27.9	43	sw.	3.1	1.4	.....	.....	4	.....	.....	0	0	
15	28.95	735.4	29.93	760.1	72.1	22.3	66	sw.	7.4	3.3	.....	.....	6	.....	.....	0	0	
16	29.14	740.1	30.11	764.7	76.1	24.5	50	wnw.	1.8	0.8	.....	.....	1	.....	.....	0	0	
17	29.21	742.0	30.18	766.6	79.0	26.1	48	sw.	2.5	1.1	.....	.....	7	.....	.....	0	0	
18	29.15	740.4	30.10	764.5	85.5	29.7	49	ssw.	1.8	0.8	.....	.....	5	.....	.....	0	0	
19	29.04	737.5	30.00	761.9	79.2	26.2	59	ssw.	7.4	3.3	.....	.....	9	.....	.....	0	0	
20	29.08	738.6	30.05	763.2	74.8	23.8	62	sw.	2.5	1.1	.....	.....	8	.....	.....	0.039	1.0	
21	29.13	740.0	30.11	764.7	73.6	23.1	60	wnw.	4.9	2.2	.....	.....	8	.....	.....	0	0	
22	29.17	740.8	30.14	765.5	75.2	24.0	75	sw.	4.9	2.2	.....	.....	6	.....	.....	0	0	
23	29.19	741.5	30.16	766.1	76.6	24.8	63	wnw.	7.4	3.3	.....	.....	8	.....	.....	0	0	
24	29.17	741.0	30.14	765.6	77.0	25.0	61	sw.	7.4	3.3	.....	.....	4	.....	.....	0	0	
25	29.18	741.2	30.14	765.5	82.8	28.2	58	ssw.	2.5	1.1	.....	.....	4	.....	.....	0	0	
26	29.11	739.3	30.04	763.0	94.3	34.6	44	e.	2.5	1.1	.....	.....	2	.....	.....	0	0	
27	29.18	741.2	30.15	765.7	78.4	25.8	41	wnw.	6.9	3.1	.....	.....	6	.....	.....	0	0	
28	29.12	739.7	30.10	764.4	75.2	24.0	43	nw.	7.4	3.3	.....	.....	1	.....	.....	0	0	
29	29.03	737.4	30.01	762.3	69.8	21.0	73	sw.	11.2	5.0	.....	.....	8	.....	.....	0	0	
30	28.94	735.1	29.92	760.0	68.0	20.0	55	wnw.	12.5	5.6	.....	.....	5	.....	.....	0	0	
Mean	29.09	738.8	30.06	763.4	78.8	26.0	49.2	.....	5.8	2.6	.....	.....	4.2	.....	.....	0.059	1.5	
October 1	28.97	735.9	29.96	761.0	64.4	18.0	59	wnw.	11.2	5.0	.....	.....	9	.....	.....	0	0	
2	29.09	738.8	30.08	763.9	65.3	18.5	52	n.	17.4	7.8	.....	.....	2	.....	.....	0	0	
3	29.28	743.6	30.27	768.9	66.2	19.0	47	nne.	5.6	2.5	.....	.....	2	.....	.....	0	0	
4	29.07	738.4	30.06	763.6	64.6	18.1	74	wnw.	11.9	5.3	.....	.....	9	.....	.....	0	0	
5	29.20	741.7	30.19	766.7	68.0	20.0	62	ese.	6.9	3.1	.....	.....	7	.....	.....	0	0	
6	29.07	738.3	30.05	763.2	69.8	21.0	38	wnw.	3.1	1.4	.....	.....	4	.....	.....	0	0	
7	28.98	736.1	29.98	761.4	61.0	16.1	59	ne.	11.2	5.0	.....	.....	8	.....	.....	0	0	
8	28.94	735.0	29.92	760.0	65.5	18.6	60	ne.	11.9	5.3	.....	.....	7	.....	.....	0	0	
9	29.00	736.6	30.00	761.9	60.4	15.8	83	se.	9.4	4.2	.....	.....	9	.....	.....	0.421	10.7	
10	28.87	733.2	29.86	758.5	59.4	15.2	89	ssw.	13.0	6.1	.....	.....	10	.....	.....	0.453	11.5	
11	29.05	737.8	30.04	762.9	64.0	17.8	78	sw.	7.4	3.3	.....	.....	6	.....	.....	0.496	12.6	
12	29.08	738.6	30.07	763.8	63.9	17.7	72	se.	1.8	0.8	.....	.....	9	.....	.....	0	0	
13	29.15	740.5	30.14	765.6	68.0	20.0	92	se.	0.7	0.3	.....	.....	2	.....	.....	0	0	
14	29.12	739.6	30.10	764.6	69.8	21.0	48	ssw.	4.9	2.2	.....	.....	7	.....	.....	0	0	
15	29.11	739.3	30.09	764.3	69.3	20.7	57	sw.	3.1	1.4	.....	.....	7	.....	.....	0	0	
16	29.21	742.0	30.21	767.4	62.6	17.0	65	wnw.	4.3	1.9	.....	.....	9	.....	.....	0	0	
17	29.32	744.6	30.30	769.7	69.4	20.8	75	wnw.	2.5	1.1	.....	.....	10	.....	.....	0.039	1.0	
18	29.34	745.2	30.32	770.0	75.6	24.2	61	ne.	1.8	0.8	.....	.....	0	.....	.....	0	0	
19	29.28	743.8	30.26	768.5	77.7	25.4	57	nne.	4.3	1.9	.....	.....	1	.....	.....	0	0	
20	29.05	737.8	30.01	762.2	79.0	26.1	47	sw.	2.5	1.1	.....	.....	1	.....	.....	0	0	
21	28.98	736.1	29.97	761.2	64.4	18.0	44	wnw.	7.4	3.3	.....	.....	5	.....	.....	0	0	
22	29.14	740.2	30.14	765.6	59.5	15.3	47	n.	12.5	5.6	.....	.....	1	.....	.....	0	0	
23	29.32	744.7	30.32	770.0	65.7	18.7	41	ne.	2.5	1.1	.....	.....	2	.....	.....	0	0	
24	29.28	743.7	30.27	768.9	68.0	20.0	36	e.	3.1	1.4	.....	.....	0	.....	.....	0	0	
25	29.06	738.2	30.04	763.0	71.2	21.8	31	se.	3.8	1.7	.....	.....	0	.....	.....	0	0	
26	29.03	737.4	30.02	762.5	64.4	18.0	53	ese.	1.3	0.6	.....	.....	9	.....	.....	0.031	0.8	
27	29.04	737.6	30.02	762.5	68.4	20.2	68	ssw.	3.8	1.7	.....	.....	9	.....	.....	0	0	
28	28.94	735.0	29.92	759.9	67.6	19.9	72	ssw.	9.8	4.4	.....	.....	8	.....	.....	0.283	7.2	
29	29.01	736.9	30.00	761.9	65.5	18.6	77	e.	4.3	1.9	.....	.....	9	.....	.....	0.252	6.4	
30	29.06	738.2	30.06	763.4	64.8	18.2	74	ne.	4.9	2.2	.....	.....	6	.....	.....	0	0	
31	29.06	738.2	30.05	763.3	65.3	18.5	69	e.	8.0	3.6	.....	.....	5	.....	.....	0	0	
Mean	29.10	739.1	30.09	764.2	66.7	19.3	60.9	.....	6.3	2.8	.....	.....	5.6	.....	.....	1.976	50.2	
November 1	28.99	736.4	29.97	761.3	68.2	20.1	61	e.	6.3	2.8	.....	.....	6	.....	.....	0	0	
2	29.01	736.9	29.99	761.7	69.8	21.0	58	ene.	4.3	1.9	.....	.....	2	.....	.....	0	0	
3	28.99	736.3	29.98	761.4	63.7	17.6	68	nnw.	4.9	2.2	.....	.....	8	.....	.....	0	0	
4	29.12	739.6	30.10	764.6	68.7	20.4	53	ese.	12.5	5.6	.....	.....	2	.....	.....	0	0	
5	29.11	739.4	30.09	764.3	71.2	21.8	51	calm	0	0	.....	.....	8	.....	.....	0	0	
6	29.03	737.4	30.03	762.7	62.6	17.0	75	wnw.	7.4	3.3	.....	.....	10	.....	.....	0	0	
7	28.97	735.7	29.96	760.9	62.8	17.1	81	ssw.	6.3	2.8	.....	.....	10	.....	.....	0	0	
8	29.15	740.4	30.15	765.9	58.6	14.8	46	n.	7.4	3.3	.....	.....	1	.....	.....	0	0	
9	29.26	743.2	30.26	768.5	66.2	19.0	38	ne.	1.3	0.6	.....	.....	0	.....	.....	0	0	
10	29.22	742.3	30.22	767.6	64.0	17.8	53	n.	7.4	3.3	.....	.....	2	.....	.....	0	0	
11	29.20	741.6	30.20	767.0	63.0	17.2	54	nnw.	0.7	0.3	.....	.....	2	.....	.....	0	0	
12	29.12	739.7	30.13	765.3	57.2	14.0	67	calm	0	0	.....	.....	8	.....	.....	0	0	
13	29.03	737.3	30.03	762.8	58.1	14.5	72	sw.	1.8	0.8	.....	.....	8	.....	.....	0	0	
14	29.02	737.1	30.01	762.3	62.6	17.0	64	e.	1.3	0.6	.....	.....	7	.....	.....	0	0	
15	29.06	738.1	30.05	763.3	64.2	17.9	55	wnw.	4.9	2.2	.....	.....	0	.....	.....	0	0	
16	29.09	738.8	30.09	764.3	59.4	15.2	56	n.	8.1	3.6	.....	.....	4	.....	.....	0	0	
17	29.26	743.1	30.26	768.6	60.8	16.0	54	n.	7.4	3.3	.....	.....	4	.....	.....	0	0	
18	29.22	742.3	30.22	767.6	64.2	17.9	56	nnw.	8.7	3.9	.....	.....	9	.....	.....	0	0	
19	29.34	745.1	30.35	770.9	57.6	14.2	66	wnw.	2.5	1.1	.....	.....	2	.....	.....	0	0	
20	29.38	746.3	30.39	772.0	61.0	16.1	69	ene.	1.3	0.6	.....	.....	7	.....	.....	0	0	
21	29.33	744.9	30.34	770.5	60.6	15.9	69	ese.	1.8	0.8	.....	.....	7	.....	.....	0	0	
22	29.31	744.4	30.32	770.0	60.8	16.0	61	ene.	1.8	0.8	.....	.....	3	.....	.....	0	0	
23	29.25	743.0	30.28	769.0	53.8	12.1	74	wnw.	2.5	1.1	.....	.....	9	.....	.....	0	0	
24	29.24	742.8	30.27	768.8	52.5	11.4	100	ssw.	0.7	0.3	.....	.....	10	.....	.....	0	0	
25	29.05	737.9	30.07	763.8	49.8	9.9	100	ssw.	5.6	2.5	.....	.....	10	.....	.....	0.039	1.0	
26	28.97	735.8	29.97	761.3	56.1	13.4	80	wnw.	9.4	4.2	.....	.....	9	.....	.....	0.197	5.0	
27	29.28	743.7	30.32	770.0	49.1	9.5	92	ese.	1.3	0.6	.....	.....	7	.....	.....	0	0	
28	29.17	740.9	30.19	766.8	52.2	11.2	63	ene.	11.9	5.3	.....	.....	8	.....	.....	0	0	
29	29.28	743.8	30.30	769.7	55.8	13.2	57	ne.	6.9	3.1	.....	.....	8	.....	.....	0	0	
30	29.35	745.4	30.36	771.1	59.0	15.0	58	e.	9.8	4.4	.....	.....	1	.....	.....	0	0	
Mean	29.16	740.6	30.16	766.1	60.4	15.8	65.0	.....	4.9	2.2	.....	.....	5.7	.....	.....	0.236	6.0	

CAMPO MAJOR—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Barometer. Corrected for instrumental error and temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Wind. Velocity. Miles per hour	Wind. Velocity. Metrs pr sec.	Wind. Force 0-10	Clouds. Amount. Upper. 0-10	Clouds. Amount. Lower. 0-10	Clouds. Direction. Up'er From	Clouds. Direction. Lo'er From	Rainfall or melted snow in past 24 hours. Inch.	Rainfall or melted snow in past 24 hours. Mill.	WEATHER.
1883.																		
December 1	29.26	743.1	30.26	768.7	59.4	15.2	66	calm	0	0	.....	.....	.....	.....	.....	0	0	
2	29.31	744.5	30.33	770.3	56.8	13.8	43	n.	14.3	6.4	.....	.....	4	.....	.....	0	0	
3	29.31	744.4	30.33	770.4	52.3	11.3	50	e.	7.4	3.3	.....	.....	6	.....	.....	0	0	
4	29.24	742.7	30.26	768.6	51.0	12.2	54	sse.	0.7	0.3	.....	.....	0	.....	.....	0	0	
5	29.15	740.4	30.17	766.2	53.4	11.9	71	wnw.	5.6	2.5	.....	.....	2	.....	.....	0	0	
6	29.12	739.0	30.15	765.9	44.6	7.0	100	wsw.	3.8	1.7	.....	.....	10	.....	.....	0	0	
7	29.13	739.9	30.17	766.2	44.2	6.8	57	nne.	4.3	1.9	.....	.....	1	.....	.....	0	0	
8	29.15	740.4	30.19	766.8	43.5	6.4	43	n.	25.2	11.7	.....	.....	0	.....	.....	0	0	
9	29.21	741.8	30.24	768.1	45.5	7.5	50	nne.	6.3	2.8	.....	.....	0	.....	.....	0	0	

SAINT PAUL DE LOANDO (S. 8° 49′, E. 13° 07′).

DATE.	Corrected for instrumental error and temperature. Inch.	Corrected. Mill.	Reduced to sea-level. Inch.	Reduced. Mill.	Temp. Fah.	Temp. Cent.	Relative Humidity Per cent.	Wind Direction From.	Velocity Miles per hour	Velocity Metrs pr sec.	Force 0-10	Cloud Amount Upper 0-10	Cloud Amount Lower 0-10	Cloud Direction Up'er From	Cloud Direction Lo'er From	Rainfall Inch.	Rainfall Mill.	WEATHER.
1884.																		
January 1	29.64	752.9	29.84	757.9	80.1	26.7	92	wnw.	.....	.....	4	.....	4	sse.	.....	0	0	
2	29.65	753.2	29.85	758.3	79.9	26.6	96	wnw.	.....	.....	4	.....	5	s.	.....	0	0	
3	29.66	753.4	29.86	758.4	80.2	26.8	92	nnw.	.....	.....	3	.....	9	.....	.....	0	0	
4	29.66	753.3	29.86	758.4	81.3	27.4	89	wnw.	.....	.....	4	.....	4	sse.	.....	0	0	
5	29.65	753.1	29.85	758.3	76.3	24.6	100	nnw.	.....	.....	2	.....	10	.....	.....	0	0	
6	29.63	752.6	29.83	757.6	80.2	26.8	92	w.	.....	.....	3	.....	7	.....	.....	0	0	
7	29.64	752.9	29.84	758.0	78.1	25.6	95	wsw.	.....	.....	2	.....	10	.....	.....	0.252	6.4	
8	29.76	755.8	29.96	761.0	69.6	20.9	99	w.	.....	.....	2	.....	10	.....	.....	2.173	55.2	
9	29.74	755.5	29.95	760.6	81.1	27.3	84	nne.	.....	.....	2	.....	4	s.	.....	0	0	
10	29.71	754.7	29.91	759.8	80.6	27.0	84	nne.	.....	.....	2	.....	10	.....	.....	0	0	
11	29.73	755.1	29.93	760.1	82.9	28.3	82	nnw.	.....	.....	2	.....	3	sse.	.....	0	0	
12	29.73	755.2	29.93	760.3	79.0	26.1	89	w.	.....	.....	4	.....	7	.....	.....	0	0	
13	29.73	755.1	29.93	760.1	81.5	27.5	79	nnw.	.....	.....	3	.....	2	e.	.....	0	0	
14	29.76	756.0	29.93	760.1	79.3	26.3	86	wnw.	.....	.....	4	.....	9	.....	.....	0	0	
15	29.69	754.0	29.89	759.1	79.7	26.5	88	nnw.	.....	.....	3	.....	1	e.	.....	0	0	
16	29.72	755.0	29.93	760.1	80.6	27.0	74	n.	.....	.....	3	.....	4	s.	.....	0	0	
17	29.72	755.0	29.93	760.1	80.4	26.9	88	nnw.	.....	.....	3	.....	4	s.	.....	0	0	
18	29.73	755.2	29.93	760.3	72.0	22.2	95	n.	.....	.....	3	.....	3	s.	.....	0	0	
19	29.69	754.2	29.89	759.2	82.6	28.1	84	nw.	.....	.....	3	.....	3	sse.	.....	0	0	
20	29.72	754.9	29.92	759.9	81.0	27.2	89	nnw.	.....	.....	3	.....	3	s.	.....	0	0	
21	29.72	754.9	29.92	759.9	82.9	28.3	84	nw.	.....	.....	3	.....	5	sse.	.....	0	0	
22	29.74	755.5	29.95	760.6	82.2	27.9	86	nne.	.....	.....	3	.....	10	.....		0	0	
23	29.70	754.3	29.90	759.4	83.3	28.5	86	nw.	.....	.....	3	.....	10	.....	.....	0	0	
24	29.71	754.5	29.90	759.5	81.0	27.2	83	wnw.	.....	.....	4	.....	4	sse.	.....	0	0	
25	29.71	754.5	29.90	759.5	81.0	27.2	81	w.	.....	.....	4	.....	3	.....	.....	0	0	
26	29.77	756.1	29.97	761.2	78.1	25.6	84	nw.	.....	.....	2	.....	10	.....	.....	0	0	
27	29.74	755.4	29.94	760.5	77.5	25.3	93	nw.	.....	.....	3	.....	10	.....	.....	0	0	
28	29.75	755.7	29.95	760.8	76.1	24.5	96	nw.	.....	.....	3	.....	10	.....	.....	0	0	
29	29.74	755.5	29.95	760.6	77.4	25.2	69	w.	.....	.....	1	.....	10	.....	.....	0	0	
30	29.71	754.6	29.91	759.7	78.3	25.7	81	wnw.	.....	.....	3	.....	10	.....	.....	0	0	
31	29.70	754.3	29.90	759.4	80.6	27.0	74	n.	.....	.....	2	.....	9	.....	.....	0.012	0.3	
Mean	29.71	754.6	29.91	759.6	79.5	26.4	86.9	.....	.....	.....	2.9	.....	6.5	.....	.....	2.437	61.9	
February 1	29.69	754.2	29.89	759.2	84.9	29.4	67	n.	.....	.....	2	.....	3	sse.	.....	0	0	
2	29.70	754.3	29.90	759.4	82.0	27.8	77	nnw.	.....	.....	3	.....	7	.....	.....	0	0	
3	29.66	753.4	29.86	758.5	81.5	27.5	80	nnw.	.....	.....	3	.....	5	sse.	.....	0	0	
4	29.65	753.0	29.85	758.1	82.0	27.8	77	nw.	.....	.....	3	.....	4	sse.	.....	0	0	
5	29.61	752.2	29.82	757.3	82.2	27.9	77	wnw.	.....	.....	3	.....	5	ne.	.....	0	0	
6	29.64	752.8	29.84	757.8	83.8	28.8	68	wnw.	.....	.....	3	.....	10	.....	.....	0	0	
7	29.69	754.0	29.88	759.0	84.6	29.2	72	nnw.	.....	.....	3	.....	10	.....	.....	0	0	
8	29.69	754.2	29.89	759.2	83.8	28.8	75	nw.	.....	.....	3	.....	4	s.	.....	0	0	
9	29.62	752.4	29.82	757.4	86.0	30.0	68	nnw.	.....	.....	3	.....	1	s.	.....	0	0	
10	29.66	753.4	29.86	758.4	86.9	30.5	68	ne.	.....	.....	3	.....	10	.....	.....	0.370	9.4	
11	29.62	752.3	29.82	757.3	82.8	28.2	82	wnw.	.....	.....	3	.....	4	s.	.....	0	0	
12	29.66	753.3	29.86	758.4	81.5	27.5	87	wsw.	.....	.....	3	.....	10	.....	.....	0.028	0.7	
13	29.72	754.9	29.92	760.0	80.6	27.0	87	nne.	.....	.....	3	.....	10	.....	.....	0	0	
14	29.67	753.5	29.87	758.6	84.0	28.9	80	nw.	.....	.....	3	.....	8	.....	.....	0	0	
15	29.67	753.5	29.87	758.6	83.7	28.7	82	nne.	.....	.....	2	.....	10	.....	.....	0	0	
16	29.66	753.3	29.86	758.4	83.1	28.4	83	n.	.....	.....	3	.....	4	sse.	.....	0	0	
17	29.66	753.4	29.86	758.4	81.5	27.5	80	nne.	.....	.....	3	.....	8	.....	.....	0	0	
18	29.66	753.3	29.85	758.3	84.9	29.4	82	nw.	.....	.....	3	.....	9	.....	.....	0	0	
19	29.69	754.1	29.89	759.2	84.9	29.4	82	wnw.	.....	.....	4	.....	6	sse.	.....	0	0	
20	29.65	753.1	29.85	758.1	87.3	30.7	80	nw.	.....	.....	3	.....	7	.....	.....	0	0	
21	29.63	752.7	29.84	757.8	83.3	28.5	79	w.	.....	.....	4	.....	3	sse.	.....	0	0	
22	29.63	752.6	29.83	757.6	83.8	28.8	78	nw.	.....	.....	3	.....	1	s.	.....	0	0	
23	29.68	753.9	29.88	758.9	84.2	29.0	82	nw.	.....	.....	3	.....	5	sse.	.....	0	0	
24	29.69	754.2	29.89	759.2	82.8	28.2	81	nne.	.....	.....	3	.....	7	.....	.....	0	0	
25	29.70	754.4	29.90	759.4	84.2	29.0	90	nw.	.....	.....	3	.....	9	.....	.....	0	0	
26	29.69	754.2	29.89	759.2	84.2	29.0	90	wnw.	.....	.....	4	.....	3	sse.	.....	0	0	
27	29.73	755.1	29.93	760.2	81.7	27.6	85	n.	.....	.....	3	.....	3	s.	.....	0	0	
28	29.68	753.9	29.88	759.0	82.9	28.3	87	nw.	.....	.....	3	.....	4	s.	.....	0	0	
29	29.67	753.5	29.86	758.5	84.2	29.0	85	nw.	.....	.....	3	.....	6	.....	.....	0	0	
Mean	29.67	753.6	29.87	758.6	83.5	28.6	79.9	.....	.....	.....	3.0	.....	6.1	.....	.....	0.398	10.1	

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

REVIEW.

INTERNATIONAL METEOROLOGY FOR FEBRUARY, 1884.

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

The following description refers to chart ii. for the month of February, 1884, issued with this SUMMARY. This chart continues the series of international charts begun in February, 1877, and exhibits the mean pressure, mean temperature, and prevailing wind-direction over the northern hemisphere, as determined from one observation taken simultaneously each day at 7 a. m., Washington, or 0 h. 8 m. p. m., Greenwich, mean time.

Two areas of barometric minima appear on the chart; the first of these is indicated by the isobar for 29.3 (744.2) and occupies that part of the ocean lying between Greenland and Iceland, including the last-mentioned within its limits. The lowest mean pressure reported is 29.26 (743.2) at Stykkisholm, Iceland. The barometric gradient increases uniformly on the western, southern, and eastern sides of the low area, until the isobar for 30.0 (762.0) is reached. That line extends from Labrador southeastward to, and including Newfoundland, thence southeastward to the fortieth parallel to about 10° west of Greenwich; thence it trends northeastward along the western shores of Europe to the Gulf of Bothnia. The second area of low mean pressure is situated over Behring Sea, and is indicated by the isobar for 29.6 (751.8); the mean pressure at Behring Island being 29.56 (750.8). In the United States and Canada, the mean pressure is everywhere above 30.0 (762.0).

The areas of barometric maxima are four in number; one, 30.4 (772.1), occupies southern Siberia and northern China. To the southward and westward of this area the mean pressure decreases slowly, but towards the east the decrease is more rapid, the isobar for 30.0 (762.0) running north and south over Japan. The second area of high pressure is that of the Atlantic; it occupies the ocean between N. 25° and 37°, and from W. 58° eastward to W. 35°; within those limits the mean pressure ranges from 30.2 (767.1) to 30.26 (768.6 . In that part of the Atlantic south of N. 40°, and from the American coast eastward to the tenth meridian west of Greenwich, the mean pressure is above 30.1 (764.5), except over a small area from W. 20° to the Portuguese coast. The third area, which is indicated by the isobar for 30.2 (767.1), occupies the Northwest Territories of British America, and extends southeastward over Montana and Dakota and eastward to northern Minnesota. In the lake region, New England, and the western provinces of Canada the mean pressure ranges from 30.05 (763.3) to 30.1 (764.5). Within a narrow strip of territory extending from the Texas coast northward to Indian Territory and Arkansas, the pressure is also below 30.1 (764.5), but in other parts of the country it is above that amount. The fourth and last area of high pressure is enclosed by the isobar for 30.1 (764.5) and covers the Canadian Maritime Provinces; within this area the means vary from 30.10 (764.5) to 30.15 (765.8).

Compared with the chart for the preceding month (January, 1884), there has been a general decrease of pressure over the United States, except in northern Minnesota, Dakota, and Montana; the decrease being most marked in Texas, Louisiana, Mississippi, and Arkansas. In the Canadian Maritime Provinces there has been a slight increase of pressure. Over the north Atlantic ocean south of 40° N., and between the American coast and W. 30°, there has been no material change, but from W. 30° eastward to the coast line there has been a considerable decrease. Over the region north of the fortieth parallel the mean pressure was slightly lower than in the preceding month. In Europe the following changes have occurred, viz: a considerable increase of pressure is shown over Russia, Denmark, and Scandinavia, the increase amounting, in the last-mentioned district, to nearly .4 inch. In the British Isles, France, and the Iberian peninsula, there has been a decrease ranging from .15 to .30 inch; in Austria and Italy the decrease is only about .05 inch, while no change has occurred in Germany. In Hindostan there has been a decrease of about .10 inch; but in other parts of Asia there has been no change, the distribution of pressure remaining substantially the same as in the preceding month.

Compared with the corresponding month of previous years, the mean atmospheric pressure during February, 1884, was slightly above normal in the extreme northern sections of the United States; in all other parts of the country it was below the normal. In Canada it was slightly below normal in Ontario, and was above the normal in the Maritime Provinces and Quebec. In Europe the mean atmospheric pressure was above the normal, expect in Spain, France, and the British Isles, where there was a slight deficiency. The excess was greatest in the northern peninsulas.

The following table gives the mean pressure and mean temperature, with corresponding departures for February, 1884, in the several countries of the northern hemisphere, compared with the means as determined from observations taken during the last seven years:

Countries.	Mean pressure.			Mean temperature.		
	Feb'y mean of 7 (1877–'83) years.	Feb'y 1884.	Departure.	Feb'y mean of 7 (1877–'83) years.	Feb'y 1884.	Departure.
				°	°	°
Algeria	30.17	30.16	− 0.01	58.6	62.4	+ 3.8
Austria	30.07	30.15	+ 0.08	37.7	40.7	+ 3.0
British Isles	29.88	29.85	− 0.03	43.4	44.6	+ 1.2
Denmark	29.88	29.98	+ 0.10	34.2	38.7	+ 4.5
France	30.09	30.05	− 0.04	45.9	49.0	+ 2.1
Germany	30.00	30.08	+ 0.08	37.6	41.3	+ 3.7
India*	29.94	29.94	normal	74.7	75.8	+ 1.1
Italy	30.06	30.15	+ 0.09	50.5	50.7	+ 0.2
Norway	29.74	29.83	+ 0.09	32.2	35.8	+ 3.6
Portugal	30.20	.....	.....	55.0	.....	.....
Russia	30.03	30.06	+ 0.03	20.1	27.9	+ 1.8
Spain	30.14	30.06	− 0.08	54.9	53.7	− 1.2
Sweden	29.81	29.96	+ 0.15	24.8	28.3	+ 3.5

* Means for six years only.

The accompanying table shows the deviations in pressure and temperature at isolated stations during the month of February, 1884, as compared with the means for seven years:

Stations.	Mean pressure.			Mean temperature.		
	Feb'y mean of 7 (1877–'83) years.	Feb'y 1884.	Departure.	Feb'y mean of 7 (1877–'83) years.	Feb'y 1884.	Departure.
				°	°	°
Gibraltar	30.18	30.09	− 0.09	60.5	60.6	+ 0.1
Malta, Mediterranean Sea	30.06	30.12	+ 0.06	58.7	60.4	+ 1.7
Sandwick Manse, Orkney Islands	29.71	29.68	+ 0.05	40.5	41.2	+ 0.7
Bridgetown, Barbadoes	30.01	30.06	+ 0.05	8 .1	79.4	− 0.7
Cape Town, Cape of Good Hope†	29.99	.....	.....	79.8	76.8	− 3.0
Fort Napier, Natal, South Africa	29.81	.....	.....	78.7	.....	.....
Freetown, Sierra Leone	29.81	.....	.....	82.2	.....	.....
Mauritius, Indian Ocean	29.94	29.94	+ 0.03	81.1	80.9	− 0.2
Melbourne, New South Wales	29.99	29.99	normal	64.3	61.8	− 2.5
Nassau, Bahamas*	30.10	30.17	+ 0.01	71.7	72.1	+ 0.4
Godthaab, Greenland	29.50	29.51	+ 0.01	12.6	1.0	−11.6
Stykkisholm, Iceland	29.45	29.26	− 0.19	28.2	31.3	+ 3.1
Thorshavn, Färöe Islands	29.64	29.56	− 0.08	39.5	41.0	+ 1.5
Zi-Ka-Wei, China	30.32	30.36	+ 0.04	38.6	36.0	− 2.6
Athens, Greece	30.07	30.10	+ 0.03	53.2	53.8	+ 0.6
Cagliari, Sardinia, Italy	30.04	.....	.....	50.9	.....	.....
Tokei, Japan	30.11	.....	.....	39.2	.....	.....
Angra, Azores	.....	.....	.....	57.7	.....	.....
Funchal, Madeira Islands	30.25	30.12	− 0.13	64.6	60.8	− 3.8
Ponta Delgado, Azores	30.21	30.12	− 0.09	60.2	57.2	− 3.0
Archangel, Russia	29.77	29.81	+ 0.04	12.4	15.8	+ 3.4
Tiflis, Russia	30.13	30.16	+ 0.03	42.3	39.4	− 2.9
Astrakhan, Russia	30.10	30.12	− 0.04	26.1	29.7	+ 3.6
Ekaterinburg, Russia	30.02	29.90	− 0.12	11.6	8.2	− 3.4
Tashkend, Toorkistan, Asia	30.32	30.21	− 0.11	35.5	37.8	+ 2.3
Barnaul, Siberia, Asia	30.32	30.22	− 0.10	4.8	9.5	+ 4.7
Yenisseisk, Siberia, Asia	30.30	30.30	normal	1.1	1.2	+ 0.1
Pekin, China	30.35	30.38	+ 0.03	28.3	28.6	+ 0.3
Nikolaevsk on the Amoor, Asia	.....	.....	.....	− 4.0	−3.5	+ 0.5
San Juan de Puerto Rico, W. I.	30.09	30.11	+ 0.02	74.4	74.5	+ 0.1
Beirut, Turkey in Asia	30.04	30.01	− 0.03	60.3	58.5	− 1.8
Mexico, Mexico	30.25	.....	.....	46.7	.....	.....
Havana, Cuba, W. I.	30.09	30.12	+ 0.03	70.8	67.8	− 3.0
Paramaribo, D. Guiana, S. A	30.02	30.03	+ 0.01	78.6	76.7	− 1.9
York Factory, B. A	30.08	30.14	+ 0.06	−21.6	−31.1	− 9.5

* Means for six years only. † Mean for five years only.

In the United States the mean temperature of the air was above the normal over the country from the lower lake region southwestward to Texas; in all other districts, excepting Arizona and New Mexico, it was below the normal, the greatest

departure occurring in the northern portions of Minnesota and Dakota, and in Wyoming, Montana and Nebraska. In Canada the temperature was generally above the normal. In Europe the mean temperature was everywhere above the normal, except in Spain, where there was a slight deficiency. In British India it was slightly above the seven years' mean; the highest mean temperature reported was 87°.9 Fahr. (31°.1 Cent.), at Bellary, and the lowest was 60°.6 Fahr. (15°.9 Cent.), at Sibsagar.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Bridgetown, Barbadoes, W. I.	79.4	26.3	York Factory, B. A.	—31.1	—35.1
Puerto Berrio, U.S. Colombia, S.A	78.8	26.0	Fort Chimo, B. A	—19.3	—28.5
Paramaribo, Dutch Guiana, S. A.	76.7	24.8	Upernavik, Greenland	—13.4	—25.2
Manila, Philippine Islands	76.3	24.6	Jacobshavn, Greenland	—11.9	—24.4
Bluefields, Nicaragua, C. A.	75.3	24.1	Nikolaevsk on the Amoor, Asia	— 3.5	—19.7

In the United States south of 37° N. and east of 100° W. the winds were mostly southerly; along the New England and middle Atlantic coasts they were northeasterly; in all other parts of the country they were mostly from north to west. Over the north Atlantic the winds were as follows: near the coasts of the United States and south of 40° N., they were southerly; from W. 60° eastward to the European coasts and from 40° to 60° N. latitude, they were mostly west and northwest; south of 30° N. they were easterly and northeasterly. In Europe the prevailing winds were from east to southeast, south, and southwest. In Japan they were westerly and northerly.

The precipitation during February, 1884, in the United States was less than the average in Florida, the western part of the Gulf states, all of Texas and part of New Mexico, and in the north Pacific coast region; in the last-mentioned district the deficiency was unusually large. In all other parts of the United States the precipitation was above the average, the excess being greatest in southern California and in Tennessee. In Canada the rainfall was above the average. In Europe it was normal or slightly below normal.

STORM-TRACK CHART FOR FEBRUARY, 1884.

On chart iii. are shown the paths of the atmospheric depressions that have appeared in the northern hemisphere during the month of February, 1884. The data are charted for each day of the month on the maps accompanying each issue of the "International Bulletin," and from these charts, together with abstracts of ships' logs and other miscellaneous data received at this office, are traced the movements of the centres of barometric minima. This chart continues the series of international charts begun in November, 1877.

The paths of forty-one depressions are traced on the chart; they are distributed as follows: Fifteen appeared in the North American continent; of this number, three (numbers iv., vi., and viii.) were first noticed on the Pacific coast; the two first-mentioned disappeared in Utah and Nevada, while number viii. moved eastward over the Rocky mountains to the lake region and thence to the Gulf of Saint Lawrence. Five developed in the region south of the fortieth parallel and west of the Mississippi river; these, with one exception (number vii.), moved northeastward into the Atlantic from the coast line between N. 37° and 40°, and thence to the Banks of Newfoundland. Five depressions appeared in the northwest; four of these moved east-southeastward to the lake region and thence northeastward or eastward to the Gulf of Saint Lawrence and the New England coast, while one, number xii., passed southeastward from Montana to South Carolina and from there into the Atlantic. Of the remaining depressions, numbers i. and v., the former appeared in New England and moved northeastward over the Gulf of Saint Lawrence, and the latter originated in the lake region and passed eastward over Nova Scotia to the Atlantic.

Eleven depressions are traced over the Atlantic ocean; of these, six, (numbers xix., xxiii., xxiv., xxviii., xxxi., and xxxii.), are continuations of depressions which passed off the American coast and from the Gulf of Saint Lawrence into the ocean. Three depressions developed in Greenland, one passing northeastward to northern Scandinavia, one southeastward to the northwestern coasts of the British Isles, while the other dissipated in southern Greenland. Number xxx. developed in mid-ocean, and merged with number xxxi. on the 25th; number xxiv. *a* was subsidiary to number xxiv., and appeared off the southwestern coast of Ireland on the 19th.

Of the twelve depressions that are traced in Europe, three are continuations of storms (xvi., xxiv., xxxi.), which entered the continent from the Atlantic; xxiv. *b* was subsidiary to xxiv., and of the remainder, two appeared in the southern districts of Europe, one in the British Isles and the Netherlands; one in southern Scandinavia, the Baltic, and western Russia, two in northern Europe and two in eastern Russia.

Four depressions are shown in Japan; two of these moved northeastward along the southeastern coast of Niphon, and two passed eastward from the Sea of Japan over northern Niphon and Yesso. Three disturbances appeared in Behring Sea and over the Aleutian archipelago, and one over the eastern part of the Pacific ocean.

The general direction of movement of the low areas during February, 1884, was somewhat similar to that followed by the depressions charted in the preceding month (January, 1884), although these latter appear to have moved at slightly lower latitudes than the former. In point of numbers there was also but little difference, except in Scandinavia, where fewer disturbances are traced during the present than in the preceding month.

Several of the depressions exhibited great energy, especially during their progress over the ocean and when near the British and Scandinavian coasts, and were marked by extremely low barometric readings. The most important low area, on account of its violence, low pressures, and erratic track, was that traced as number xxiv. This disturbance remained for several days (from the 12th to the 19th) over the ocean between W. 30° and the British coasts, giving out during this period numerous subsidiary disturbances which caused unsettled weather and moderate gales over the British Isles.

On the 12th the barometric pressure at the centre of low area xxiv. was less than 28.0 (711.2), rising to 28.4 (721.3) by the 14th; it remained below 29.0 (736.6) until the 18th, when a slight rise set in and continued until the 21st, when the pressure again fell below 29.0 (736.6). During these dates the area affected by the disturbance extended over nearly the whole of the Atlantic north of the fortieth parallel. The easterly movement of this depression was retarded by an extensive and important area of high pressures which occupied northern and central Europe during the period from the 12th to the 20th. This area enclosed, at times, the British Isles, and its eastern limit reached the Ural region; from the 14th to the 16th the maximum pressure, near the centre of the high area, ranged from 30.6 (777.2) to 30.8 (782.3).

In low areas xvi. and xxii., the barometer fell below 28.9 (734.0) in the former, and to 28.2 (716.3) in the latter. The storms which were most violent near the American coasts were numbers xiv. and xxxi.; in the first the barometer fell to 28.6 (726.4) in the Maritime Provinces on the 29th, and in the case of the last-mentioned to 29.1 (739.1) on the 24th. In number viii., when on the Pacific coast, the barometer fell from 29.4 (746.7) on the 15th to 29.3 (744.2) on the 17th.

(For special barometric observations in connection with the depressions traced over the Atlantic, see chapter under NORTH ATLANTIC STORMS in the MONTHLY WEATHER REVIEW for February, 1884.)

The depressions which appeared in Japan were unimportant and presented no special features; in those over the Aleutian archipelago the barometer fell below 29.2 (741.7).

GENERAL REMARKS.

DAILY BULLETIN.

All data which appear in the DAILY BULLETIN OF SIMULTANEOUS METEOROLOGICAL OBSERVATIONS are copied from the regular exchanges of this office. The barometer readings for land stations, in the first and second columns, are reduced to freezing and their respective standards; those in the third and fourth columns to sea-level. When necessary, corrections for instrumental error, temperature, and reduction to sea-level are always applied, while those for instrumental error, only when such corrections can be ascertained with close approximation, as by comparison when vessels are at or near land stations. Relative humidity generally requires computation from the hygrometrical observations. When rain has fallen, but neither the amount nor duration is recorded, the word "blank" is published in the rainfall column. The weather is generally published as given. The following symbols and abbreviations are common to all series, viz: †, aneroid; *, instrumental error not known; c, cirrus; k, cumulus; s, stratus; n, nimbus; d, scud; f, fracto; p, pallio; hz, haze; fg, fog; sk, smoke; inap, inappreciable; d. clouds, detached clouds. The movement of the air is published as given on the originals, when indicated by velocity in miles per hour, in meters per second, or by force, all variations of the latter being reduced to the common scale of 0 to 10. Those stations reporting the movement in pounds pressure per square foot are reduced to force on the common scale, and those in kilometers per hour, to meters per second and miles per hour. The distinction between upper and lower clouds is carefully made in the United States and a portion of the Canadian series, and the various formations are indicated by the letters above given and their combinations.

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

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

BOUNDARIES OF DISTRICTS.

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

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

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

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

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

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

ALGERIAN SERIES (furnished by co-operation of M. Thévenet, Director of the Meteorological service at the College of Science of Algeria).—The originals give the barometer in millimetres reduced to sea-level; temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The rainfall is measured at 7 a. m., local time, and the amount indicated in millimetres.

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

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

BELGIAN SERIES (furnished by the co-operation of J. C. Houzeau, Director of the Royal Observatory at Brussels).—The originals give the barometer in millimetres reduced to sea-level; temperature in Centigrade; weather by the Vienna symbols, and occasionally in general terms. At Arlon the observations are taken at 1 p. m., local time.

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

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

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

CHILIAN SERIES (by authority of the Secretary of Public Instruction, furnished by co-operation of Francisco Vidal Gormáz, President of the Central Meteorological Office at Santiago).—Observations are taken mostly at lighthouses on the coast; the originals give barometer as read off; temperature in Centigrade; humidity is not given but is computed at this office from the hygrometrical observations.

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

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

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

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

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

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

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

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

JAPANESE SERIES (furnished by the co-operation of the Geographical

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

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

MEXICAN SERIES (furnished by co-operation of the respective observers).—The kind of clouds is given, and also the direction and amount of both upper and lower. The degree of cloudiness is indicated on a scale of 0 to 10. Rainfall is generally measured at 6 a. m., local time.

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

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

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

RUSSIAN SERIES (furnished by co-operation of Professor H. Wild, Director of the Imperial Central Physical Observatory of Russia at St. Petersburg).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by velocity in meters per second. No distinction is made between upper and lower clouds; the amount is given on a scale of 0 to 10, and the kind occasionally. The weather is occasionally given by the Vienna symbols. At Astrakhan, Ashurada and Baku, the barometer-cistern is below sea-level. On December 7th, 1883, the barometer at Archangel was "deranged," and the corrections to the aneroid used in its place are not exact.

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

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

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

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

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

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

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

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

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

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

INTERNATIONAL CHARTS ACCOMPANYING DAILY BULLETIN AND MONTHLY SUMMARY.

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

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

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

In the above charts broken lines indicate that the lines so drawn are doubtful. Arrows show direction of, and fly with, the wind. Force is shown as follows:

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

MONTHLY SUMMARY OF INTERNATIONAL SIMULTANEOUS METEOROLOGICAL OBSERVATIONS.

The position of stations (latitude and longitude) are obtained from Keith Johnson's "Index Geographicus," except where more exact information is furnished. The elevation of stations is obtained either from the annual, semi-annual, and monthly publications of the various meteorological bureaus here represented, or from the original forms upon which are entered the daily observations. In the United States series the elevations are computed from the latest surveys, and are carefully revised each month, in order to note any change in the elevation of the barometer-cistern at any station. It is believed for the most part that, throughout the European and other series, the elevations as given represent the height of the barometer-cistern above sea-level; at least, this should be the case. The local time, where omitted or not given correctly in the original, is carefully computed at this office. A letter placed opposite the name of a station or some portion of the data credited thereto, indicates that a certain number of observations are missing, corresponding to the relative position in the alphabet of the letter so used.

BRITISH SERIES, Bradford: a letter placed opposite the name of station, refers to all the data except rainfall.

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

ERRATA.

The following corrections should be applied to barometer readings from stations of the United States series, as follows:

Shreveport, Louisiana, from May 1st to August 31st, 1882, both inclusive, actual barometer .015 of an inch, or 0.38 mm., too low; from September 1st, 1882, to July 31st, 1883, both inclusive, actual barometer .020 of an inch, or 0.51 mm., too low; from August 1st to 31st, 1883, both inclusive, actual barometer .025 of an inch, or 0.64 mm., too low; from September 1st to 30th, 1883, both inclusive, actual barometer .062 of an inch, or 1.57 mm., too low; from October 1st to December 31st, 1883, both inclusive, actual barometer .065 of an inch, or 1.65 mm., too low; from January 1st to 31st, 1884, both inclusive, actual barometer .070 of an inch, or 1.78 mm., too low.

Saint Vincent, Minnesota, from September 4th, 1880, to December 1st, 1880, all barometric readings are too low by .034 of an inch, or 0.86 mm.; and from December 1st, 1880, to February 1st, 1884, are too low by .021 of an inch, or 0.53 mm.

Fort Canby, Washington Territory, from September 1st, 1883 to February 1st, 1884, all barometer readings are too low by .024 of an inch, or 0.61 mm.

Fort Concho, Texas, from December 1st, 1881, to December 31st, 1884, both inclusive, all barometer readings are too low by .030 of an inch, or 0.76 mm.

Key West, Florida, from May 4th, 1882, to January 31st, 1884, both inclusive, all barometer readings are too low by .021 of an inch, or 0.53 mm.

Yuma, Arizona, from November 1st, 1882, to June 30th, 1883, both inclusive, barometric readings are too low by .011 of an inch, or 0.28 mm.; from July 1st, 1883, to September 30th, 1883, both inclusive, barometric readings are too low by .015 of an inch, or 0.38 mm.; from October 1st, 1883, to December 31st, 1884, both inclusive, barometer readings are too low by .024 of an inch, or 0.61 mm.

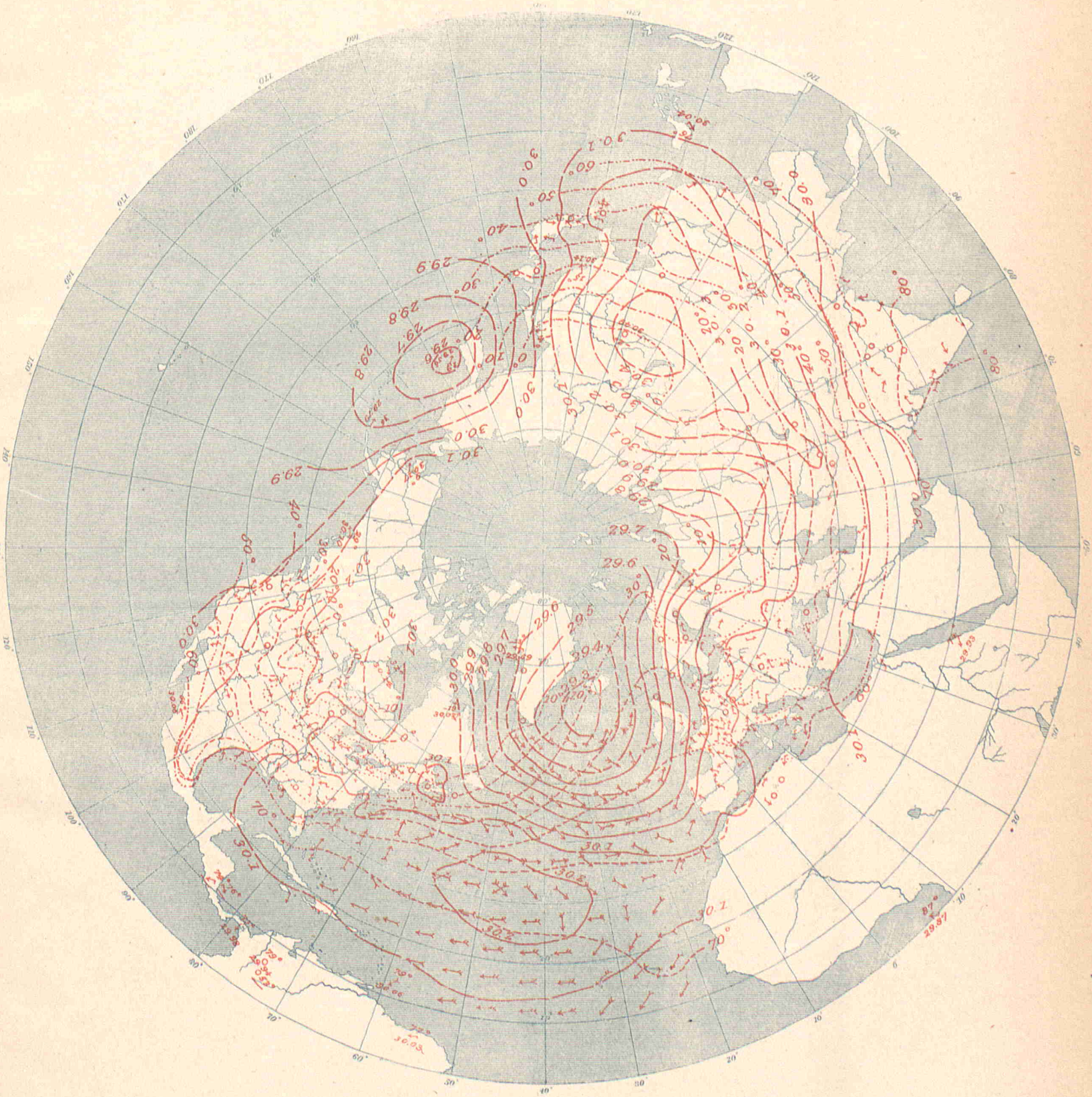
Port Huron, Michigan, from March 1st to 31st, 1883, both inclusive, barometric readings are too low by .010 of an inch, or 0.25 mm.; from April 1st to May 31st, 1883, both inclusive, barometric readings are too low by .015 of an inch, or 0.38 mm.; from June 1st to October 31st, 1883, both inclusive, barometric readings are too low by .020 of an inch, or 0.51 mm.; from November 1st to December 31st, 1883, both inclusive, barometric readings are too low by .025 of an inch, or 0.64 mm.

DAILY BULLETIN, February 7th, 1884, page 7, District No. 1. Bark "Fred W. Carlon," Progresso roads, C. A., should read Progresso roads, Yucatan, Mexico; same correction on 10th, 13th, 16th, 19th, 22d, 25th, 28th; and for s. s. "City of Alexandria," on 28th and 29th.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

International Chart II. February, 1884. Isobars, Isotherms, and Winds.

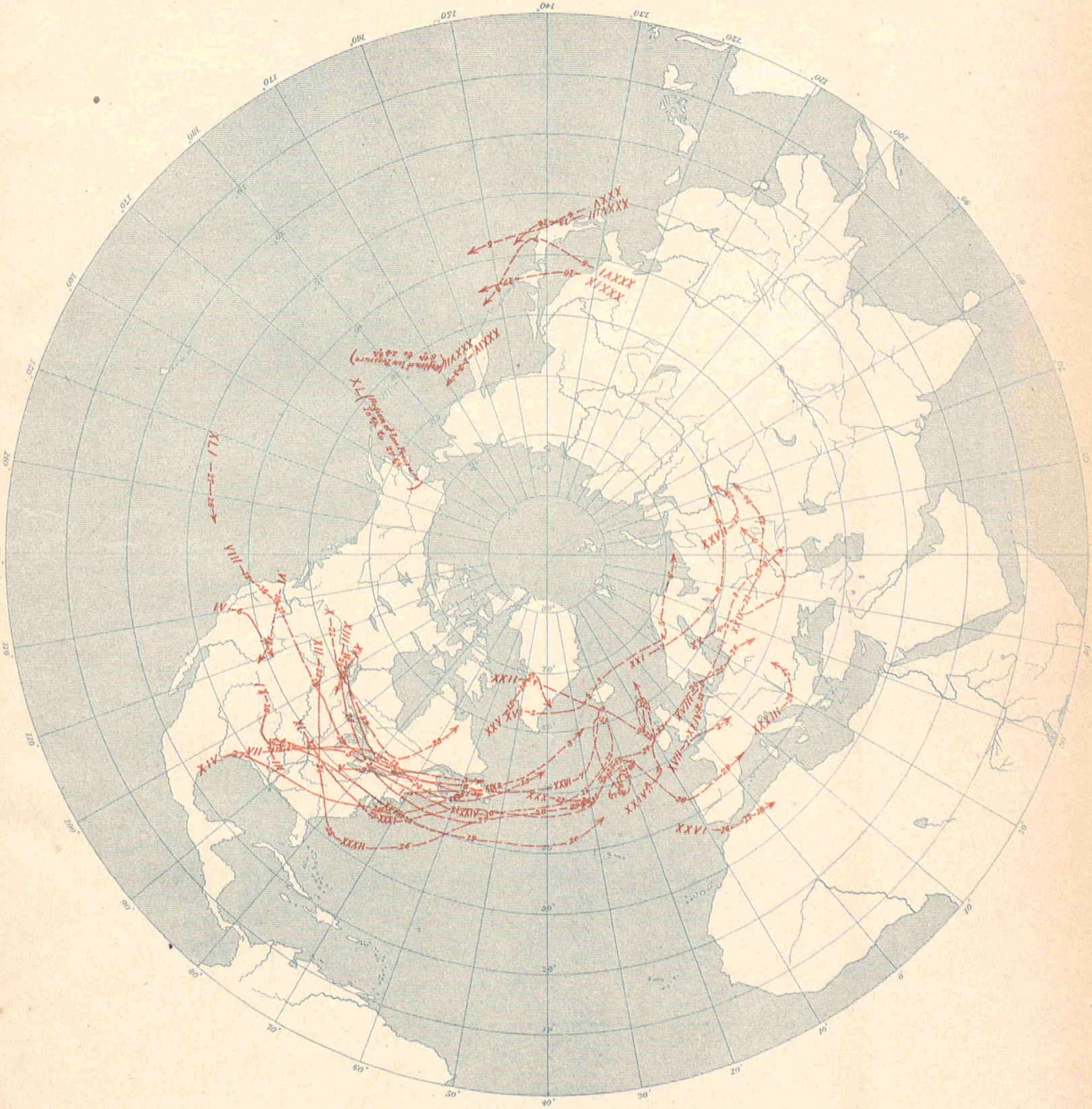


UNITED STATES OF AMERICA.

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

Signal Office Lith.

International Chart III. February, 1884. Storm-Tracks.



UNITED STATES OF AMERICA.

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

Signal Office Lith.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
S. S. Assyrian Monarch, N. 49° 21′, W. 20° 25′ †	29.00	736.6	50	10.0		s.			6		8		s.	4 h'r	4 h'r	high	ssw.	hazy.
S. S. Alvo, Aux Cayes, Hayti, W. I*	30.20	767.1	73	22.8		var.			0–1		4		calm	4 h'r	4 h'r			fine.
S. S. Alleghany, Montauk Point, N. Y †	30.46	773.7	40	4.4		se.			3		10		s.	0	0			cloudy.
S. S. Ailsa, N. 9° 49′, W. 77° 35′			78	25.6	92	n.			2		5		ene.	0	0	sm'h		fair.
S. S. America, N. 46° —′, W 39° 30′			43	6.1	92	n.			7–8		7		n.	snow	snow	r'gh	n.	cloudy.
S. S. Arizona, off Fastnet, Ireland	29.75	755.6	50	10.0		se.			3		5		s.	0	0		w.	fair.
S. S. Alps, Kingston, Jamaica, W. I *†	30.10	764.5	76	24.4		n.			1		7		ese.	rain	rain	short		
S. S. Adriatic, N. 50° 09′, W. 23° 25′						ese.			4		8		sw.			h'vy		threatening.
Schr. Annie R. Lewis, N. 30° 00′, W. 79° 56′†	30.12	765.0	78?	25.6?		s.			4		4		s.	12 h'r	12 h'r	h'vy	nne.	clear.
S. S. British Crown, N. 45° 20′, W. 33° 45′†	29.33	745.0	41	5.0		nw.			8		8		nw.	5 h'r	5 h'r	h'vy	nw.	squally.
S. S. Circassian, N. 53° 35′, W. 20° 38′	28.96	735.6	48	8.9	92	se.			6–7		10		se.			6	se.	raining.
S. S. Caracas, N. 22° 23′, W. 68° 40′*†	30.21	767.3	76	24.4	91	e.			5		2		e.	0	0	mod.	e.	fine.
S. S. City of Washington, N. 25° 44′, W. 79° 51′			78	25.6		se.			4		5		se.	0	0	mod.	nw.	fine.
S. S. Canada. (Br.) N. 47° 11′, W. 28° 33′			44	6.7	100	nw.			10		10		nw.	shr's	shr's		nw.	squally.
S. S. Chalmette, N. 37° 40′, W. 74° 35′ *†	30.22	767 6	50	10.0		e.			5		10		e.	0	0	mod.	e.	cloudy.
S. E. J. Spicer, N. 35° 38′, W. 48° 13′	30.53	775.4	55	12.8	87	n.			5		10		n.	rain	rain	cross		cloudy
S. S. France, N. 49° 47′, W. 7° 55′						e.			4		9?		se.	rain	rain	sm'h		clear.?
S. S. Frisia, N. 43° 00′, W. 52° 25′	30.66	778 7	29.8	— 1.2		nw.			4		8		wnw.	0	0	sm'h	nw.	cloudy.
S. S. Grecian, N. 49° 43′, W. 35° 01′	29.34	745 2	33	0.6	80	nw.			8		6		nw.	5 h'r	5 h'r	high	nw.	hail squalls
S. S. Hohenstaufen, N. 49° 40′, W. 15° 58′	29.32	744.7	50	10.0	93	s.			6		5		s.	6 h'r	6 h'r	h'vy	s.	drizzling.
S. S. Helvetia, N. 49° 3′, W. 27° 03′	28.67	728.2	41	5.0		n.			8		9		n.	4 h'r	4 h'r	h'vy	n.	cloudy
Bk. Havana, N. 39° 3′, W. 74° 05′					56	var.			4		9		sw.	16 h'r	16 h'r	long	s.	hazy.
Schr. Jennie N. Huddell, N. 35° 30′, W. 75° 08′ †	30.17	766.3	60	15.6		sse.			1		10		sse.	rain	rain	h'vy	e.	threatening.
S. S. Lone Star, N. 30° 30′, W. 80° 25′ *†	30.15	765.8	71	21.7		s.			3		10		s.	18 h'r	18 h'r	r'gh	se; e.	cloudy.
S. S. Mentmore, N. 49° 10′, W. 25° 59′ *†	28.50	723.9				se.			7		5		sw.	4 h'r	4 h'r	con.		stormy.
S. S. Marengo, N. 43° 16′, W. 51° 30′ *†	30.00	777.2	33	0.6		nw.			5		7		nw.	0	0	light	nw.	cloudy.
S. S. Neckar, N. 40° 16′, W. 69° 44′	30.34	770.6	51.0	10.6	86	se.			0–1		3		se.	0	0	sm'h	se.	clear.
S. S. Orinoco, Staten Island, N. Y	30.44	773.2	44?	6.7?		calm			0		fg.			0	0			dense fog.
S. S. Ohio, (Am) N. 51° 23′. W. 9° 37′ *†	29.73	755.1	49	9.4	93	sse.			1		4		s	0	0	small	s.	fair.
S. S. Pennsylvania, N. 48° 18′, W. 27° 50′ †	28.50	723.9	43	6.1	92	ne.			9		10		ne.	4 h'r	4 h'r	h'vy	ne.	gale.
S. S. Rhynland, N. 47° 48′, W. 38° 15′	29.58	751.3	38	3.3	63	nw.			5		8		nw.	9 h'r	9 h'r	mod	nw.	squally.
S. S. Sardinian, N. 43° 52′, W. 49° 17′	30.38	771.6	25	— 3.9		nw.			6		10			4 h'r	4 h'r	mod.	nw.	snowing
S. S. Switzerland, N. 41° 09′, W. 66° 02′ *†	30.44	773.2				sse.			1		2		ssw.	0	0	sm'h		fair.
S. S. Samaria, N. 42° 08′, W. 66° 35′	30.36	771.1	40	4.4		sse.			4		1		se.	0	0	sm'h		clear.
S. S. Salier, N. 49° 41′, W. 30° 18′*	28.97	735.8				n.			8		10		nnw.	8 h'r	8 h'r	h'vy	n.	squally.
S. S. Valencia, Puerto Cabello, Venezuela †	30.01	762.2	82	27.8	87	ese.			1		1		e.	0	0			fair.
S. S. Pennland, N. 50° 26′, W. 00 54′*	29.80	756.9	44	6.7	84	e.			5		8		ese.	light	light	light	ese.	cloudy.
Schr. Adda Doane, N. 18° 06′, W. 74° 14′†	30.16	766.1				se.			2		5		ese.	1 h'r	1 h'r	short	e.	fair.
Bg. Alcira, N. 17° 04′, W. 73° 47′ *	30.19	766.8	80	26.7		ene.			5		3		e.	0	0	r'gh	ene.	hazy.
S. S. Britannic, N. 50° 36′, W. 18° 20′			49	9.4		ssw.			7		10		nw.	6 h'r	6 h'r	high	sw.	raining.
S. S. British Prince, N. 50° 33′, W. 16° 24′			50	10.0		s.			6		8		s.	2 h'r	2 h'r	h'vy	s.	fair.
S. S. Cienfuegos, N. 27° 25′, W. 76° 20′	30.22	767.6	71	21.7		sse.			5		5		s.	2 h'r	2 h'r	large	sse.	fair.
Bk. Chas. Stewart, Gibraltar, Mediterranean*†	29.68	753.9				ene.			2		8		e.	0	0	mod.	s.	cloudy.
Bk. Cato, N. 40° 30′, W. 27° 30′†	29.63	752.6				wnw			8		6		wnw.	0	0	h'vy	wnw.	fair.
S. S Donau, N. 48° 44′, W. 24° 44′	28.60	726.4	48.2	9.0		sse.			8		10		se; sw	8 h'r	8 h'r	high	var.	misty.
S. S. Gallia, N. 41° 25′, W. 52° 40′	30.66	778.7	37	2.8		nne.			3		5		n.	0	0	mod.	n.	fair.
S. S. Habsburg, N. 41° 50′. W. 58° 10′	30.63	778.0				calm			0		5		ese.	0	0	sm'h		fair.
S. S. Pavonia, N. 51° 19′, W. 11° 11′	29.63	752.6	52	11.1	86	ese.			5		2		e.	0	0	mod.	ese.	clear.
S. Parker M. Whitmore, N. 51° 00′, W. 9° 45′ *†	29.68	753.9				sse.			3		4		sse.	2 h'r	2 h'r	short	ese.	fair.
S. S. Sirius, N. 21° 48′, W. 60° 58′	30.17	766.3				e.			5		8		ene.	0	0	r'gh	ene.	squally.
Bk. Saga, N. 31° 54′, W. 78° 32′†	30.15	765.9	69.5	20.8					8		8	ssw.	var.	4¼ hr	4¼ hr			cloudy.
S. S. Vaderland, N. 45° 25′, W. 41° 15′			33	0.6		nnw.			8		7		n.	6 h'r	6 h'r	high	nnw.	snowy.
S. S. Virginian, N. 42° 21′, W. 54° 00′						sse.			4					0	0	sm'h		overcast.
S. S. Wyoming, N. 42° 08′, W. 55° 08′	30.70	779.8	32	0.0		ne.			1		4		nne.	0	0	sm'h		fair.
S. S. Wieland, N. 41° 50′, W. 62° 30′			44	6.7		s.			1–2		0			0	0	short	s.	clear.
S. S. Westphalia, Hamburg, Germany			32	0.0	100	e.			4		3		e.	4 h'r	4 h'r			fair.
S. S. St. Laurent, N. 41° 55′, W. 58° 45′			39.2	4		calm			0		8		n.	0	0	sm'h		cloudy.
S. S. Crescent City, N. 20° 15′, W. 74° 05′ *†	30.12	765.0	75	23.9		ne.			5								ne.	fine.
S. S. Reliance, N. 31° 33′, W. 72° 26′			72	22.2		se.			2								sw.	fair.
U. S. Navy Yard, Portsmouth, N. H *	30.35	770.9	30	— 1.1	89	sw.	6	2.7			10		w.	0	0			cloudy.
U. S. S. Alliance, N. 18° 27′, W. 65° 33′	30.13	765.3	75	23.9	81	ene.			5		8		ene.	light	light	mod.	e.	cloudy.
U. S. S. Kearsarge, Naples, Italy	30.02	762.5	53	11.7	67	ene.			4		8		n.					fair.
U. S. S. Lancaster, Naples, Italy	30.02	762.5	52	11.1	86	nne.			4		8		n	light	light	sm'h		fair.
U. S. S. New Hampshire, Newport, R. I	30.41	772.4	33	0.6	100	se.			2		10					sm'h		cloudy.
U. S. S. Portsmouth, Norfolk, Va	30.23	767.8	50	10.0	100	ese.			2		10							drizzling.
U. S. S. Powhatan, Boston, Mass	30.43?	772.9?	32	0.0	100	wsw.			2		10		wsw.					cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.02	762 5	53	11.7	54	ne.			4		2		ne.			sm'h		fair.
U. S. S. Swatara, Port au Prince, Hayti, W. I	30.12	765.0	73	22.8	76	e.			2		0			h'vy	h'vy	sm'h		clear.
U. S. S. Trenton, Naples, Italy	30.01	762.2	54	12.2	61	nne.			5		10		nw.					cloudy.
U. S. S. Vandalia, Curacoa, W. I	30.01	762.2	77	25.0	82	ene.			3		8		calm					fair.
U. S. S. Yantic, New York, N Y	30.40	772.1	40	4.4	100	ne.			2		10							overcast.
H. M. S. Alexandra, Malta, Mediterranean	29.94	760.5	68	20.0	79	ene.			1		2	ene.						d. clouds.
H. M. S. Alecto, N. 7° 00′, W. 12° 43′	29.88?	758.9?	82	27.8		wnw.			1		1					2	wnw.	blue sky.
H. M. S. Boadicea, N. 7° 17′, W. 13° 18′	29.90	761.0	80	26.7	91	nne.			1		4	nne.				1	nne.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.27	768.8	66	18.9	89	sw.			2		10	ssw.						overcast.
H. M. S. Himalaya, N. 31° 07′, W. 49° 40′	30.30	769.6	63	17.2	89	nne.			5		9					4	nnw.	showery.
H. M. S. Minotaur, Palermo, Sicily	29.92	760.0	59	15.0	73	ne.			1		3	wnw.						d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.84	758.0	87.6	30.9	76	nne.			3		2			0	0	1	se.	d. clouds.
S. S. British Princess, N. 40° 50′, W. 53° 45′			42	5.6		ne.			2		8		e.	0	0	sm'h	cross	fine.
S. S. Prussian, N. 51° 51′, W. 20° 26′			49	9.4		sw.			8		10		sw.	10 h'r	10 h'r	h'vy	sw.	
S. S. Alpin, N. 32° 40′, W. 68° 58′*†	30.30	769.6	68	20.0		sse.			2		4		ssw.	0	0	mod.	s.	foggy.
S. S. Dorian, N. 51° 36′, W. 21° 50′	29.04	737.6	41	5.0		s.			6		10		s.	8 h'r	8 h'r	r'gh	ssw.	overcast
S. S. Carroll, N. 43° 00′, W. 65° 34′*†	30.51	774.9	41	5.0		ssw.			3		5		ssw.	0	0	short	s.	fair.
S. S. Llandaff City, N. 48° 30′, W. 21° 27′*†	29.00	736.6	48	8.9		sw.			7		10			rain	rain	h'vy	sw.	stormy.
S. S. Wisconsin. N 45° 20′, W. 43° 56′	30.18	766.6	31	— 0.6		nw.			8		9		nw.	12 h'r	12 h'r	r'gh	nw.	squally.
S. S. Bohemia, N. 49° 17′, W. 16° 28′						sw.			7		8		sw.	0	0	long	sw.	cloudy.
S. S. Rugia, N. 40° 25′, W. 70° 30′	30.39	771.9	46	7.8		se.			4		2		se.	14 h'r	14 h'r	3	se.	drizzling.
S. S. Rhaetia, N. 49° 27′, W. 29° 27′	28.90	734.0	38	3.3		nnw.			8–9		10			10 h'r	10 h'r	cross	var.	stormy.
S. S. Rosse, N. 3° 01′, W. 28° 20′	29.95	760.7	79.5	26.4	80	sse.			2		5		var.	0	0			fine.
S. S. Archimede, (It) Palermo, Sicily			68	20.0		ne.			3		3		ne.	0	0			clear.
S. S. Picqua, N. 42° 25′, W. 30° 46′ *†	29.30	744.2	45	7.2	?	nw.			9				nw.	rain	rain	high	nw.	cloudy.
S. S. Ontario, N. 49° 18′, W 31° 29′	28.88?	733.5?	39	3.9		ne.			7		10			9 h'r	9 h'r	mod.	n.	overcast.
S. S. Denmark, N. 46° 50′, W. 19° 15′†	29.18	741 2	56	13.3	94	s.			6					0	0	r'gh	s.	cloudy.
S. S. England, N. 41° 12′, W. 59° 14′	30.61	777.5				se.			4		5		se.	0	0	mod.	e.	d. clouds.
S. S. Erin, N. 41° 20′. W. 64° 07′			41	5.0		n.			1		1		w.	0	0	sm'h		clear.
S. S. Leipzig, N. 23° 38′. W. 27° 23′*	30.16	766.1	70.0	21.1	92	ne.			1		8		ne.	0	0	mod.	ne.	fair.
S. S. Strassburg, N. 45° 26′, W. 8° 31′	29.66	753.4	52.0	11.1	79	e.			1–2		10		se.	4 h'r	4 h'r	4	w.	light rain.
S. S. City of Augusta, N. 37° 16′, W. 74° 46′ *†	30.21	767.3				ese.			4		10		ese.	0	0			cloudy.
S. S. Muriel, N. 28° 45′, W. 66° 55′	30.39	771.9	70	21.1		se			2		0			0	0	mod	e.	clear.
S. S. Waesland, Antwerp, Belgium			35	1.7		e.			6		0			0	0			clear.
S. S. Westernland, N. 40° 41′. W. 68° 16′	30.44	773 2	49	9.4	85	se.			4		3		se.	0	0	light	se.	clear.
S. S. W. A. Scholten, Rotterdam, Holland			39.2	4.0	67	se.			4		2		ese.	0	0			fair.
S. S. Zaandam, N. 46° 15′. W. 19° 43′			57.2	14.0	87	ssw.			6		10			4 h'r	4 h'r	long	ssw.	cloudy.
S. S. State of Nebraska, N 40° 37′, W. 68° 53′ *†	30.34?	770.6?	47	8.3		var.					2					sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. S. State of Nevada, N. 41° 28′, W. 64° 52′			38	3.3		se.			1		2		se.	0	0	light	ssw.	clear.
S. S. Saxon, Philadelphia, Pa *†	30.40	772.1	37	2.8		ne.			1		10							threatening.
S. S. Celtic, Liverpool, Eng*†	29.98?	761.5?	45	7.2		se.			9		8		se.	12 h'r	12 h'r			heavy rain.
S. S. Republic, N. 40° 50′, W. 67° 53′ *†	30.33?	770.4?	44	6.7	100	s.			4		6		s.	0	0	sll't	s.	d. clouds.
S. S. Lepanto, N. 36° 33′, W. 2° 24′			62	16.7		ne.			9		8		e.	0	0	hv'y	ene.	hazy.
S. S. Romano, Hull, England			48	8.9		sse.			3		5		se.	0	0			fine.
S. S. Salerno, New York, N. Y †	30.35	770.9	40	4.4		ne.			3		10		ne.			sm'h	ne.	raining.
S. S. Antonio Lopez, Barcelona, Spain	29.88	758.9	54.5	12.5	?	ene.			6	10 c				1 h'r	1 h'r			squally.
Bgt. Achsah, N. 28° 45′, W. 61° 09′ †	30.31	769.9	71	21.7		e.			2		4		e.	0	0	long	se.	clear.
S. Armenia, N. 51° 25′, W. 19° —′*	29.05	737.9	52	11.1	86	se.			8		10		se.	2 h'r	2 h'r	r'gh	se.	
Bk. Adelaide, N. 0° 47′, W. 30° 30′*†	29.95	760.7	84	28.9		n.			1		9		e.	4 h'r	4 h'r	med	cross	sprinkling.
S. S. Bracadale, N. 40° 32′, W. 58° 10′			62	16.7		sw.			6		9		sw.	6 h'r	6 h'r	sll't	sw.	light rain.
Bk. Benjamin Dickerman, N. 31° 34′, W. 59° 15′ *†	30.42?	772.7?	70	21.1		sw.			4		1		sw.	0	0	h'vy	ne.	clear.
S. Cornelius, N. 39° 53′, W. 61° 16′*†	30.53	775.4	58.6	14.8		e.			3		6		se.	8 h'r	8 h'r	h'vy	ne.	cloudy.
S. Dora, N. 49° 13′, W. 31° 41′ †	29.10	739.1	36.5	2.5		nnw.			7		6		n.	12 h'r	12 h'r	h'vy	n.	squally.
S. David Stewart, Barbadoes, W. I.			76	24.4		ene.			3		3		ene.	sh'rs	sh'rs			
Schr. Edith R. Seward, N. 31° 17′, W. 58° 25′ †	30.35	770.9	72	22.2		calm			0		2?		calm	0	0	long	n.	cloudy.?
Bk. Fred. W. Carlon, Progreso roads, Mexico †	30.05	763.3	78	25.6		ese.			4		0			0	0	sm'h	ne.	clear.
Bk. Gloire, N. 27° 20′, W. 69° 53′ *	30.22	767.6	81?	27.2?		se.			2		2		e.	0	0	short	nne.	clear.
Bk. George Davis, N. 39° 23′, W. 45° 38′*†	30.37	771.4				n.			6				n.	0	0	high	nnw.	covered.
Bk. Galeon, Grimsby Road, Eng †	30.05	763.3	39	3.9		sse.			6		8		se.	0	0			overcast.
Bk. Hattie G. McFarland, N. 21° 57′, W. 85° 20′ †	30.10	764.5	76	24.4		ese.			5		6		e.	0	0	long	se.	fine.
S. Henry, N. 40° 02′, E. 18° 44′*	29.98	761.5	50.0	10.0		nnw.			4		8 ks					5	var.	raining.
Bg. John Wesley, N. 26° 05′, W. 79° 48′						e.			4		8		se.	0	0	sm'h	se.	cloudy.
Schr. John L. Thomas, South Hobbles Cays, C. A †	30.04	763.0	77	25.0	86	e			3		1		e.	0	0	mod.	ene.	clear.
Bg. John Welsh, jr., N. 24° 08′, W. 82° 26′†	30.12	765.0				se.			4				se.			sm'h	se.	
S. S. Laurel, off Indian Key, Fla †	30.13	765.3	78	25.6		se.			3–4		7		se.	1 h'r	1 h'r			fair.
Bg. L. F. Munson, N. 26° 31′, W. 65° 05′			74	23.3		e.			3		2		se.	0	0	mod.	se.	clear.
S. S. Madrid, Shields, Eng †	30.29	769.4	48	8.9	85	e.			7		9		se.	2 h'r	2 h'r			fair.
Schr. Minnie A. Bonsall, Brunswick, Ga*†	30.08	764.0	70?	21.1?		sw.			5					12 h'r	12 h'r	light		foggy.
Schr. Maggie Abbott, N. 32° 50′, W. 73° 00′*†	30.20	767.1				ese.			4		10		s.	rain	rain	long	ne.	cloudy.
Schr. Norena, Ponce, Porto Rico, W. I †	30.18	766.6				ne.			2		2		ene.	0	0			fine.
Bk. Orpheus, N. 51° 35′, W. 23° 06′ *	28.84	732.5	50	10.0		wsw.			4		10		w.			mod.	sw.	cloudy.
Bg. Rising Sun, N. 16° 20′, W. 62° 15′†.	30.06	763.5	77	25.0		ene.			5		1		ene.	0	0	long	ene.	clear.
S. S. Radnorshire, N. 40° 00′, W. 9° 57′						nne.			2		1		nne.	0	0	h'vy	nnw.	fine.
Bk. Sunbeam, N. 38° 29′, W. 67° 47′ *†	30.33	770.4	59	15.0	88	e.			5		10		sw.	0	0	mod.	ene.	cloudy.
Bgt. Sunlight, N. 31° 35′, W. 60° 36′ †	30.33	770.4				s.			2		6		n.	0	0	h'vy	n.	fair.
S. St. David, N. 13° 32′, W. 37° 45′			75	23.9	78	nne.			3		9		nne.	2 h'r	2 h'r	long	nne.	squally.
S. Stephen D. Horton, Antwerp, Belgium †	30.13	765.3				ene.			5		3		e.	0	0			clear.
Bk. Silica, N. 49° 27′, W. 5° 16′ *	29.08	753.9				se.			5		10		se.	rain	rain	mod.		misty.
S. Vincenzo Accame, N. 37° 50′, W. 55° 04′ †	30.70	779.7	57.2	14		ene.			4		7		ne.	½ h'r	½ h'r	r'gh	var.	
S. S. Maasdam, N. 42° 05′, W. 48° 05′*	30.47	773.9	41.0	5		nnw.			4							high	nw.	fair.
S. S. Strathleven, N. 48° 35′, W. 20° 41′			52.2	11.2	92	sse.			6		10					0	sse	raining.
District No. 2—South Atlantic.																		
U. S. S. Pinta, Montevideo, Uruguay	29.98	761.5	69	20.6	85	n.			2		5		nw.					fair.
H. M. S. Amethyst, Montevideo, Uruguay	29.86	758.4	70	21.1	82	n.			2		7	se.						threatening.
H. M. S. Opal, Simons Bay, Cape Colony	30.00	762.0	71	21.7	70	ese.			4		0							squally
H. P. M. S. Tejo, S. 6° 08′, E. 12° 11′	30.04	763.1	84.2	29.0	96	calm			0		0			0	0	2	sw.	blue sky.
H. P. M. S. Rainha de Portugal, Banana, Guinea	29.84	757.9	84.2	29.0	85	wnw.			2		6			0	0	1		d. clouds.
H. P. M. S. Bengo, S. 3° 39′, E. 2° 33′	29.91	759.6	84.2	29.0	81	wsw.			3		7		wsw.	rain	rain	2	wsw.	d. clouds.
S. S. Hevelius, S. 9° 41′, W. 32° 06′ *†	30.10	764.5	82	27.8		se.			5		2		se.	0	0			clear.
Bk. Celestina, S. 18° 07′ W. 34° 50′ *†	30.06	763.5				nne.			1		2			0	0	light	ne.	clear.
S. S. George S. Homer, S. 29° 00′ W. 32° 29′ *†	30.02	762.5				s.			2		2		var.	0	0	mod	sw.	fine.
Bk. Godeffroy, S. 0° 29′, W. 34° 17′	29.89	759.2	80.6	27.0	90	ese.			4		6 k		ese.	rain	rain	mod.	ne.	fair.
S. Grecian, S. 37° 38′, W. 32° 28′†	30.03	762.7	61	16.1	82	sw.			3		8		wsw.	light	light	mod.	sw.	cloudy.
S. Henry Falling, S. 32° 05′, W. 24° 06′*†	30.12	765.0	72	22.2	100	nnw.			3		10		wnw.	18 h'r	18 h'r	sm'h	w.	raining.
Bk. Horace Scudder, Congo river, Guinea*†	30.10	764.5	85	29.4		ese.			2		2		ese.	0	0			clear.
Bkt. Levanter, Montevideo, Uruguay*	29.96	761.0	73	22.8		n.			1		9		sw.	0	0	sm'h		cloudy.
Bk. Winifred, S. 14° 00′, W. 34° 33′ *†	30.00	762.0											e.	0	0		e.	
S. Orealia, S. 38° 39′, W. 9° 30′*	30.03	762.7				n.			5		10		nne.			sm'h		foggy.
District No. 3—North Pacific.																		
U. S. S. Alert, N. 31° 36′, E. 129° 42′	30.31	769.9	50	10.0	65	nnw.			5		5		nnw.			mod.	w.	fair.
U. S. S. Essex, Canton, China	30.11	764.8	65	18.3	89	ese.			1		10							overcast.
U. S. S. Hartford, N. 16° 28′, W. 139° 06′	29.98	761.5	75	23.9	90	ne.			5		8		n.	0	0	sm'h		cloudy.
U. S. S. Juniata, N. 32° 36′, E. 127° 50′	30.32	770.1	47	8.3	85	n.			3		2		ne.	0	0	sm'h	n.	clear.
U. S. S. Monocacy, Ningpo, China	30.27	768.8	46	7.8	77	ese.			2		10		se.					cloudy.
U. S. S. Palos, Tientsin, China	30.25	768.3	30	— 1.1		ene.			1		0							clear
H. M. S. Audacious, Victoria harbor, Hong Kong, China	30.07	763.8	60	15.6	94	ene.			2		10	e.						overcast.
H. M. S. Cleopatra, N. 24° 20′, E. 118° 05′	30.15	765.8	61	16.1	82	ese.			2		10					1		overcast.
H. M. S. Champion, Shanghai, China	30.32	770.1	45	7.2	84	e.			1		2							blue sky.
H. M. S. Flying Fish, N. 24° 20′, E. 118° 04′	30.22	767.6	55	12.8	90	e.			1		10							showery.
H. M. S. Magpie, N. 5° 24′, E. 100° 20′	29.88	758.9	83.8	28.8	75	s.			1		4					1	e	d. clouds.
H. P. M. S. Tanega, Macao, China	30.15	765.8	62.6	17.0	90	e.			2		10			4 h'r	4 h'r			overcast.
S. S. Newbern, N. 25° 51′, W. 110° 34′*†	30.16	766.1	65	18.3	73	nnw.			2		3		nw.	0	0	mod.	nnw.	clear.
S. S. Oceanic, N. 41° 10′, W. 140° 47′	30.06	763.5	49	9.4	85	nne.			4		6		n.	0	0	3	nw.	fair.
S. S. Columbia, N. 43° 47′, W. 124° 39′*†	29.28	743.7	40.5	4.7	100	nne.			4		10		nne.			light	nne.	rainy.
S. S. Oregon, Portland, Oregon †	29.35	745.5	29	— 1.7	89	calm			0		10		sw.					snowing.
S. S. Alameda, N. 34° 21′, W. 129° 41′†	29.60	751.8	55	12.8		w.			0		4		wsw.	12 h'r	12 h'r	r'gh	wsw.	fair.
S. S. Ancon, Santa Barbara, Cal	29.79	756.7	58	14.4	88	sse.			7		10		sw.	3 h'r	3 h'r	mod.	ssw.	overcast.
S. S. City of Chester, near Point Arenas, Cal †.	29.44	747.8	51	10.6	?	se.			7		10			light	light	h'vy	w.	heavy gale.
S. S. Queen of the Pacific, N. 41° 15′, W. 124° 34′	29.20	743.2	49	9.4	93	sw.			7		4		sw.	17 h'r	17 h'r	long	s.	fair.
S. S. State of California, San Francisco, Cal †	29.04	752.8	52	11.1	79	s.			4		10		sse.					cloudy.
S. S. Eureka, N. 49° 32′, W. 124° 31′			23	— 5.0	60	wnw.			5		10			0	0	sm'h		misty.
S. S. Australia, N. 16° 58′, W. 159° 54′	30.17	766.3	70	24.4	95	e.			5		3		e.	light	light	mod.	e.	clear.
S. S. Colima, La Libertad, San Salvador †	30.02	762.5	77	25.0	82	ese.			2		4		se.	0	0	small	se.	clear.
S. S. Granada, N. 30° 23′, W. 116° 48′†	30.08	764.0	60	15.6	82	s.			3		3		s.	0	0	mod	var.	clear.
S. S. San Blas, San Jose, Guatemala †	29.96	761.0	77	25.0	91	n.			2		3		n.	0	0	sm'h	ssw.	clear.
S. S. San Jose, N. 31° 23′, W. 118° 52			59	15.0		s.			5		10		ssw.	10 h'r	10 h'r	mod.	sw.	stormy.
S. Carondelet, Yokahama, Japan						n.			1		2		n.	0	0	sm'h		clear.
S. St. Francis, N. 18° 30′, W. 124° 00′			70	21.1	80	ne.			3		6		nnw.	0	0	hv'y	nw.	fair.
District No. 4—South Pacific.																		
U. S. S. Wachusetts, Callao, Peru*	30.00	762.0	72	22.2	100	se.			1		5		calm			sm'h		fair.
H. M. S. Espiegle, S. 46° 30′, E. 168° 22′	30.00	762.0	54	12.2	74	w.			6		8	sw.				sm'h		showery.
H. M. S. Lark, S. 36° 50′, E. 174° 48′	30.17	766.3	61.3	16.3	72	sw.			1		5							d. clouds.
H. M. S. Nelson, S. 42° 53′, E. 147° 21′	30.00	762.0	59	15.0	100	se.			1		10							overcast
S. S. Zealandia, Sydney, N. S. W	30.22	767.0	78	25.6	78	calm			0		4			sh'rs	sh'rs			fair.
S. Ismir, S. 49° 15′, W. 84° 00′ *†	29.75	755.0				wsw.			7		10		wsw.	6 h'r	6 h'r	h'vy	sw.	drizzling.
H. M. S. Liffey, S. 29° 55′, W. 71° 21′	29.92	760.0	65	18.3		calm			0		0					sm'h		
H. M. S. Sylvia, off Sandy Point, Patagonia	29.12	739.6	44	6.7	90	w.			5–7		6	calm						squally.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Suakin, Egypt	29.92	760.0	74	23.3	72	ne.			0		0							blue sky.
H. M. S. Tourmaline, Mananhar, Madagascar	29.89	759.2	84	28.9	68	s.			5		5							d. clouds.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Miles p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor.	29.95	760.7	30.04	762.9	3.9	—15.6	68	w.	2	1		0	0						Iwanow.
Pekin, China	30.21	767.3	30.35	770.9	32.7	0.4	52	calm	0	0		0	0						Siang.
Petro-Alexandrovsk	29.82	757.4	30.19	766.9	26.6	— 3.0	63	n.	9	4		10							Walter.
Petrozavodsk	29.82	757.3	30.03	762.8	5.9	—14.5	78	se.	11	5		0	0			0	0		Dr. Bergmann.
Pinsk	29.27	743.4	29.77	756.2	40.3	4.6	70	ssw.	13	6			10 s			0.051	1.3	light clouds	
Poti	30.11	764.7	30.14	765.5	45.7	7.6	100	calm	0	0			0			0	0		
St. Petersburg	29.88	758.9	29.90	759.5	13.1	—10.5	70	se.	18	8		cs	1 s			0	0	light clouds	Central Physical Obs'y.
Samarkand	27.41	696.2	29.87	758.7	52.9	11.6	91	calm	0	0			10 n						Dresch.
Semipalatinsk	29.04	737.6	29.73	755.1	23.2	— 4.9	90	s.	13	6			10			0.205	5.2		Major Lasarew
Sevastopol	29.99	761.7	30.21	767.4	37.6	3.1	56	sw.	4	2			10 n			0	0		
Starol Bykhov	29.26	743.1	29.84	757.9	27.0	— 2.8	89	se.	20	9			10					snowing	Carl Hagen.
Tashkend, Laboratory	28.26	717.8	29.95	760.8	46.9	8.3	98	calm	0	0			10 n					heavy cl'ds.	Terch, A. M
Tiflis	28.77	730.7	30.23	767.8	38.5	3.6	51	calm	0	0			10			0	0		Physical Observatory.
Vernoe	27.29	693.1	29.89	759.1	30.2	— 1.0	60	calm	0	0		0	0						Sariono.
Viatka	29.34	745.2	30.04	763.0	2.1	—16.6	63	nw.	9	4			0			0	0		
Vladivostock	30.11	764.8	30.18	766.5	17.4	— 8.1	70	nne.	18	8			0			0	0		
Warsaw	29.32	744.7	29.75	755.6	43.5	6.4	91	wnw.	11	5		c	10 ks						Astronomical Obs'y.
Yeniseisk	29.59	751.5	29.90	759.5	5.7	—14.6	75	n.	2	1			1			0	0		M. O. Marks.
Sub-series.																			
Petrowsky Academy	29.57	751.1	30.06	763.5	7.7	—13.5	51	s.	9.8	4.4		0	0			0.04	1.0	clear	Bachmetieff.
SPANISH.																			
Barcelona, Met. Obs'y	30.04	763.0	30.15	765.8	53.8	12.1	81	w.				0	3			0.016	0.4		B. J. Elin.
Bilbao, Met. Obs'y	30.20	767.0	30.20	768.5	55.2	12.9	66	nw.	1.8	0.8			10			0.035	0.9	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.27	692.6	30.35	770.8	41.5	5.3	71	w.	5.6	2.5		0	1			0.028	0.7	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.96	710.1	30.24	768.2	47.8	8.8	52	nw.	3.6	1.6		1	0			0	0	almost clear.	The Staff.
Murcia, Met. Obs'y	29.98	761.6	30.11	764.7	48.6	9.2	96	w.	6.5	2.9		5	5			1.244	31.6	raining	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.39	746.6	30.31	769.9	50.9	10.5	88	sw.	7.4	3.3			9			0.051	1.3	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.03	762.7	30.10	764.4	69.6	20.9	86	e.	1.6	0.7		0	6 k		ne.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	30.04	762.9	30.09	764.3	75.8	24.3	68	ese.	8.8	3.9		0	7 ks			0	0	cloudy	F. F. Faura, S. J.
San Fernando, Naval Obs'y	30.25	768.4	30.35	771.0	53.4	11.9	57	n.	3.6	1.6		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	30.03	762.8	30.12	765.1	72.0	22.2	79	ne.				2 s	3 k	ne.	ne.	inap.	inap.		Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.84	757.8	29.87	758.8	16.9	— 8.4	100	s.			4		10			0.197	5.0	snowing	
Umea	29.72	754.8	29.77	756.1	18.3	— 7.6	89	e.			4		10			0.094	2.4		
Hernosand	29.62	752.4	29.67	753.7	26.2	— 3.2	91	n.			2		10			0.028	0.7		
Stockholm	29.35	745.4	29.52	749.9	37.4	3.0	87	calm			0		1			0.165	4.2		
Wisby	29.52	749.7	29.58	751.2	39.2	4.0	84	wsw.			4		7			0.378	9.6		
Sub-series.																			
Upsala	29.41	746.9	29.49	749.1	35.8	2.1	90	nw.	4.0	1.8			7	sse.		0	0		H. H. Hildebrandesson.
SWISS.																			
Geneva																			The Observatory.
TURKISH.																			
Constantinople			30.23	767.8	46.4	8.0	48	ene.	11	5.0			1		ne.	0	0		The Observatory.
Valona			30.15	765.9	60.1	15.6		nw.			2		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.95	760.8	60.1	15.6	67	sw.			2	c	4 n		sw.	0.82	20.8		F. Nimr, B. A., Dir.
UNITED STATES.																			
Albany, New York	30.16	766.1	30.24	768.1	18.5	— 7.5	39	n.	4	1.8		0	0			0.26	6.6	clear	J. O. Barnes.
Alpena, Michigan	29.52	749.8	30.23	767.8	— 3.2	—19.6	83	w.	2	0.9			10 s			inap.	inap.	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.21	640.3	30.31	769.9	28.0	— 2.2	79	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.98	685.3	30.02	762.5	39.0	3.9	76	sw.	28	12.5		10 k	0	sw.		0	0	cloudy	F. Newman.
Atlanta, Georgia	28.97	735.8	30.19	766.8	35.6	2.0	52	nw.	5	2.2		0	0			0	0	clear	S. W. Beall.
Atlantic City, New Jersey	30.22	767.6	30.23	767.8	21.3	— 5.9	58	w.	0	4.0		0	0			0.42	10.7	clear	B. A. Blundon.
Augusta, Georgia	30.02	762.5	30.22	767.6	36.5	2.5	71	w.	1	0.4		0	0			0	0	clear	W. J. Evans.
Baltimore, Maryland	30.24	768.1	30.29	769.4	27	— 2.8	64	nw.	5	2.2		0	0			0.10	2.5	clear	Geo. W. Feiger.
Barnegat City, New Jersey	30.21	767.3	30.23	767.8	20.2	— 6.6	84	n.	18	8.0		0	0			0.07	1.8	clear	F. L. Johnson.
Bennett, Fort, Dakota	28.48	723.4	30.21	767.3	10.4	—12.0	91	calm	0	0			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.11	688.6	30.11	764.8	46.3	7.9	88	sw.	16	7.2		0	2 s		se.	0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.05	712.5	30.03	762.7	10.0	—12.2	80	se.	5	2.2			10 s			0.05	1.3	cloudy.	B. O. Lenoir.
Block Island, Rhode Island	30.12	765.0	30.16	766.1	18.0	— 7.8	53	nw.	26	11.6		0	0			1.04	26.4	clear	J. T. Elker.
Boise City, Idaho	27.55	699.8	30.51	774.9	40.0	4.4	82	s.	2	0.9		5 cs	0	w.		0	0	fair	James Kenealy.
Boston, Massachusetts	29.90	759.4	30.06	763.5	13.0	—10.6	70	nw.	20	8.9		0	0			1.36	34.5	clear	O. B. Cole.
Brownsville, Texas	30.05	763.3	30.11	764.8	56.0	13.3	93	se.	6	2.7		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.50	749.3	30.29	769.4	9.7	—12.4	74	s.	6	2.7			10 s			inap.	inap.	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.71	703.8	29.92	760.0	27	— 2.8	94	s.	12	5.4		0	8 s			inap	inap.	cloudy	A. Schneider.
Cairo, Illinois	29.58	751.3	30.00	762.0	46.2	7.9	50	sw.	14	6.3			10 s		sw.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.17	766.3	30.37	771.4	45.0	7.2	100	s.	11	4.9			10 n			0.72	18.3	light rain	J. H. Young.
Cape Henry, Virginia	30.25	768.3	30.27	768.8	31.0	— 0.6	78	nw.	20	8.9		0	0			0.56	14.2	clear	A. K. Alderson.
Cape May, New Jersey	30.27	768.8	30.30	769.6	26.0	— 3.3	76	nw.	22	9.8		0	0			0.53	13.5	clear	W. E. Smith.
Cape Mendocino, California	29.58	751.3	30.28	769.1	47	8.3	86	nw.			2	0	fg.		nw.	0	0	clear	A. P. Leavitt.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	44.0	6.7	51	ne.	13	5.8		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.13	765.3	30.19	766.8	43.0	6.1	60	ne.	12	5.4		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.34	745.2	30.22	767.6	32.7	0.4	52	e.	4	1.8		0	fg.			0.01	0.3	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.32	744.7	30.18	766.6	32.5	0.3	73	w.	2	0.9		8 cs	0	sw.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	30.36	771.1	37.8	3.2	45	nw.	12	5.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.24	742.7	29.99	761.7	24.5	— 4.2	80	ne.	12	5.4			10 n		ne.	0.26	6.6	light snow	Wm. Norrington.
Chincoteague, Virginia	30.26	768.6	30.28	769.1	27.0	— 2.8	59	nw.	12	5.4		0	0			1.15	29.2	clear	C. F. Dickens
Cincinnati, Ohio	29.38	746.2	30.06	763.5	33.3	0.7	86	se.	9	4.0			10 s		se.	inap.	inap.	cloudy	L. Dunne.
Cleveland, Ohio	29.43	747.5	30.22	767.6	20.0	— 6.7	84	se.	5	2.2			10 s		se	0.05	1.3	cloudy	W. Line.
Columbus, Ohio	29.24	742.7	30.14	765.5	25.4	— 3.7	85	e.	13	5.8			10 s			0.01	0.3	cloudy	F. T. Williams
Concho, Fort, Texas	28.36	720.3	30.38	771.0	34.5	1.4	82	w.	5	2.2		0	0			0	0	clear	C. E. King.
Custer, Fort, Montana	26.78	680.2	30.14	765.5	40.3	4.6	73	sw.	4	1.8		0	7 s			0	0	fair	W. J. Daily.
Davenport, Iowa	29.27	743.4	29.97	761.2	23	— 5.0	67	n.	12	5.4			10 s		nw.	0.10	2.5	cloudy	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	30.24	768.1	37.4	3.0	71	s.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.53	724.6	30.35	770.9	48.5	9.2	86	sw.	10	4.5		8 k	0			0.28	7.1	cloudy	H. S. Blandford.
Deadwood, Dakota	25.32	643.1	30.24	768.1	40.2	4.6	70	sw.	11	4.9		0	0			0.03	0.8	clear	G. Kingsbury.
Delaware Breakwater, Del.	30.26	768.6	30.28	769.1	26.4	— 3.1	75	nw.	24	10.7		0	0			0.72	18.3	clear	G. A. Martin.
Denver, Colorado	24.85	631.2	30.37	771.4	44.7	7.1	40	sw.	8	3.6		0	0			0	0	clear	F. M. Neil.
Des Moines, Iowa	29.20	741.7	30.17	766.3	14	—10.0	64	n.	12	5.4		0	5 s		n.	0.17	4.3	fair	F. W. Conrad.
Detroit, Michigan	29.44	747.8	30.20	767.1	22.6	— 5.2	73	w.	12	5.4			10 n		w.	0.06	1.5	light snow	N. B. Conger.
Dodge City, Kansas	27.56	700.0	30.30	769.6	31.5	— 0.3	78	w.	12	5.4		1 c	0			0	0	clear	J. E. Lanouette.
Dubuque, Iowa	29.32	744.7	30.08	764.0	15.5	— 9.2	73	n.	6	2.7		0	2 s			0.45	11.4	clear	J. Harvey Smith
Duluth, Minnesota	29.39	746.5	30.20	767.1	0.0	—17.8	83	calm	0	0		0	0			0	0	clear	E. R. Brace.
Eastport, Maine	29.65	753.1	29.72	754.9	8.0	—13.3	55	nw.	28	12.5		0	0			3.17	80.5	clear	D. C. Murphy.
Elliott, Fort, Texas	27.46	697.5	30.36	771.1	33.5	0.8	65	w.	8	3.6		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.50	673.1	30.38	771.6	43.0	6.1	42	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.50	749.3	30.27	768.8	15.0	— 9.4	83	e.	5	2.2		0	0			inap	inap.	clear	C. A. Shaw.
Escanaba, Michigan	29.48	748.8	30.20	767.1	— 7.0	—21.7	74	nw.	1	0.4		2 ck	0	ne		0	0	clear	L. M. Pindell.
Fort Smith, Arkansas	29.61	752.1	30.11	764.8	44.2	6.8	76	w.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Galveston, Texas	30.11	764.8	30.15	765.8	57.2	14.0	73	s.	5	2.2		0	0			0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.41	747.0	30.12	765.0	11.8	—11.2	89	ne.	7	3.1			10 n			0.13	3.3	light snow	Joseph E. Muelle
Grant, Fort, Arizona	25.40	645.1	30.26	768.6	44	6.7	36	ne.	3	1.3		0	0			0	0	clear	Chas. A. Read.
Hatteras North Carolina	30.26	768.6	30.27	768.8	36.0	2.2	61	n.	14	6.3		0	0			0.43	10.9	clear	R. M. Crawford

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Helena, Montana	25.88	657.3	30.24	768.1	48.5	9.2	77	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	S. W. Morrison.
Huron, Dakota	28.74	730.0	30.26	768.6	— 0.4	—18.0	62	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.[illegible]0	739.1	29.95	760.7	31.5	— 0.3	89	se.	6	2.7	.....	.....	10 n	.....	se.	0.03	0.8	light snow	C. F. R. Wappenhans.
Indianola, Texas	30.13	765.3	30.16	766.1	52.0	11.1	93	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.15	765.8	30.20	767.1	42.0	5.6	68	nw.	6	2.7	.....	hz.	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.26	743.2	29.96	761.0	24.2	— 4.3	70	nw.	12	5.4	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	F. Z. Gosewisch.
Key West, Florida	30.00	764.3	30.11	764.8	66.8	19.3	73	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.26	768.6	30.28	769.1	33.6	0.9	53	ne.	24	10.7	.....	0	0	.....	.....	0.44	11.2	clear	Wesley Blake.
Knoxville, Tennessee	29.13	739.9	30.21	767.3	27.9	— 2.3	88	e.	2	0.9	.....	hz.	1 s	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.34	745.2	30.18	766.6	3	—16.1	72	n.	8	3.6	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	S. C. Emery.
Leavenworth, Kansas	29.20	741.7	30.15	765.8	30	— 1.1	68	n.	20	8.9	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	T. S. Outram.
Lewiston, Idaho	29.50	719.3	30.38	771.6	39.0	3.9	82	calm	0	0	.....	.....	10 s	.....	.....	0.27	6.9	cloudy	C. E. Butler.
Little Rock, Arkansas	29.70	754.4	30.03	762.7	45.0	7.2	60	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.74	755.4	30.14	765.5	55.8	13.2	47	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.39	746.5	29.98	761.5	40.6	4.8	68	s.	10	4.5	.....	.....	10 s	.....	s.	inap.	inap.	threatening	L. M. Dey.
Lynchburg, Virginia	29.62	752.3	30.34	770.6	31.0	— 0.6	62	s.	1	0.4	.....	0	1 s	.....	.....	0.01	0.3	clear	Jno. Healy.
Mackinaw City, Michigan	29.53	750.0	30.23	767.8	— 6.0	—21.1	79	s.	2	0.9	.....	0	5 s	.....	.....	0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.25	768.3	30.26	768.6	36.2	2.3	61	nw.	15	6.7	.....	0	0	.....	.....	0.03	0.8	clear	William Daly.
Maginnis, Fort, Montana	25.29	642.4	30.04	763.0	31.4	— 0.3	62	w.	36	16.1	.....	5 ck	0	w.	.....	0	0	fair	F. Burke.
Marquette, Michigan	29.40	746.7	30.18	766.6	2.0	—16.7	72	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.66	753.4	30.01	762.2	43.3	6.3	86	se.	10	4.5	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	D. T. Flannery
Milwaukee, Wisconsin	29.27	743.4	30.07	763.8	21.2	— 6.0	83	ne.	18	8.0	.....	.....	10 s	.....	ne.	0.15	3.8	cloudy	S. W. Rhode.
Mobile, Alabama	30.14	765.5	30.18	766.6	40	4.4	73	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	H. U. Jones.
Montgomery, Alabama	29.93	760.2	30.17	766.3	35.8	2.1	80	n.	1	0.4	.....	3 cs	fg.	.....	.....	0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.07	738.4	30.17	766.3	—19	—28.3	85	s.	2	0.9	.....	0	0	.....	.....	0.14	3.6	clear	H. Bessant.
Mt. Washington, N. H.	23.07	586.0	29.69	754.1	—14.0	—25.6	33	nw.	106	47.6	.....	hz.	0	.....	.....	0.10	2.5	clear	Edwd. A. Beals.
Nashville, Tennessee	29.46	748.3	30.07	763.8	41.8	5.4	54	s.	14	6.3	.....	.....	10 s	.....	sw.	0	0	cloudy	L. N. Jesunofsky
New Haven, Connecticut	30.08	764.0	30.20	767.1	15.2	— 9.3	67	nw.	11	4.9	.....	0	0	.....	.....	0.58	14.7	clear	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.09	764.3	17.0	— 8.3	67	nw.	11	4.9	.....	0	0	.....	.....	1.03	26.2	clear	J. G. Lynch.
New Orleans, Louisiana	30.09	764.3	30.15	765.8	46.5	8.1	62	s	1	0.4	.....	7 c	0	w.	.....	0	0	fair	M. Herman.
New York, New York	30.05	763.3	30.24	768.1	17.0	— 8.3	67	w.	13	5.8	.....	6 c	0	.....	.....	0.58	14.7	fair	H. J. Penrod.
Norfolk, Virginia	30.21	767.3	30.24	768.1	31.8	— 0.1	54	n.	10	4.5	.....	0	0	.....	.....	0.90	22.9	clear	Wm. Davis.
North Platte, Nebraska	27.17	690.1	30.27	768.8	31.6	— 0.2	82	nw.	6	2.7	.....	0	0	.....	.....	0.02	0.5	clear	J. J. Mc Lean.
Olympia, Washington T'y	30.29	769.4	30.33	770.4	48.5	9.2	89	s.	6	2.7	.....	0	4 s	.....	.....	1.12	28.4	fair	J. Dascomb.
Omaha, Nebraska	29.01	736.8	30.28	769.1	14.7	— 9.6	73	n.	12	5.4	.....	0	0	.....	.....	0.04	1.0	clear	A. Pollak
Oswego, New York	29.93	760.2	30.28	769.1	12.9	—10.6	63	n.	9	4.0	.....	0	9 k	.....	nw.	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas	29.58	751.3	30.16	766.1	45.2	7.3	75	s.	12	5.4	.....	0	4 s	.....	.....	0	0	fair	P. T. Jenkins.
Pensacola, Florida	30.17	766.3	30.20	767.1	40.2	4.6	66	ne.	2	0.9	.....	0	sk.	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.16	766.1	30.27	768.8	21.0	— 6.1	58	nw.	13	5.8	.....	2 cs	0	.....	.....	0.45	11.4	clear	T. F. Townsend.
Pike's Peak, Colorado	17.85	453.4	30.57	776.5	15.0	— 9.4	76	n.	28	12.5	.....	0	0	.....	.....	0.01	0.3	clear	H. Hall.
Pittsburg, Pennsylvania	29.39	746.5	30.25	768.3	23.8	— 4.6	88	e.	3	1.3	.....	6 cs	0	.....	.....	0.03	0.8	fair	O. D. Stewart
Poplar River, Montana	.....	.....	.....	.....	4.3	—15.4	85	sw.	.....	.....	1	.....	10 s	.....	sw.	0	0	cloudy	G. A. Garden.
Port Huron, Michigan	29.45	748.0	30.18	766.6	0.9	—12.3	73	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	29.93	760.2	29.98	761.5	12.0	—11.1	70	nw.	14	6.3	.....	0	0	.....	.....	1.07	27.2	clear	W. W. Eichelberger.
Portland, Oregon	30.28	769.1	30.35	770.9	52.4	11.3	95	calm	0	0	.....	.....	10 s	.....	.....	0.35	8.9	cloudy	M. L. Hearne.
Prescott, Arizona	25.02	635.5	30.38	771.6	31.0	— 0.6	83	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	30.00	762.0	30.03	762.7	15.8	— 9.0	70	nw.	22	9.8	.....	0	4 ks	.....	nw.	1.73	43.9	fair	O. N. Kitchel.
Red Bluff, California	29.97	761.2	30.34	770.6	47	8.3	100	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.92	760.0	30.17	766.3	48.4	9.1	91	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	L. G. Schultz.
Rochester, N. Y.	29.58	751.3	30.28	769.1	10	—12.2	80	w.	8	3.6	.....	8 k	0	n.	.....	0.02	0.5	cloudy	E. W. McGann.
Roseburg, Oregon	29.83	757.7	30.40	772.1	46.2	7.9	89	se.	3	1.3	.....	0	9 s	.....	w.	inap.	inap.	cloudy	J. J. Nanry.
Sacramento, California	30.22	767.6	30.29	769.4	48.5	9.2	96	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.28	743.7	29.94	760.5	39.5	4.2	78	nw.	13	5.8	.....	.....	10 s	.....	nw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.15	740.4	29.18	741.2	11.2	—11.6	96	calm	0	0	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	Fred. H. Clarke
St. Paul, Minnesota	29.29	744.0	30.22	767.6	1.0	—17.2	72	calm	0	0	.....	7 cs	0	w.	.....	0.13	3.3	fair	P. F. Lyons.
St. Vincent, Minnesota	29.06	738.1	30.03	762.7	— 6	—21.1	75	s.	5	2.2	.....	.....	10 ks	.....	nw.	0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.98	659.9	30.54	775.7	36.1	2.3	59	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Craig.
San Diego, California	30.02	762.5	30.09	764.3	57.7	14.3	45	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sandusky, Ohio	29.44	747.8	30.16	766.1	23	— 5.0	88	e.	14	6.3	.....	.....	10 n	.....	.....	0.13	3.3	light snow	B. F. Hough.
Sandy Hook, New Jersey	30.20	767.1	30.23	767.8	9.3	—12.6	70	nw.	29	13.0	.....	0	0	.....	.....	0.58	14.7	clear	V. P. Chappel.
Sanford, Florida	30.08	764.0	30.13	765.3	51.0	10.6	72	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. B. Marbury
San Francisco, California	30.17	766.3	30.24	768.1	54.4	12.4	78	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.11	764.8	30.20	767.1	41	5.0	58	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. M. Geddings.
Shaw, Fort, Montana	26.44	671.6	30.30	769.6	44	6.7	76	sw.	15	6.7	.....	4 k	0	w.	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.89	759.2	30.07	763.8	45.0	7.2	68	w.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	E. N. Meekins.
Sitka, Alaska	29.24	742.7	29.31	744.5	41.5	5.3	83	se.	10	4.5	.....	.....	10 n	.....	se.	2.83	71.9	heavy rain	F. W. Fickett.
Smithville North Carolina	30.22	767.6	30.26	768.6	35.8	2.1	42	n.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.17	715.5	30.30	769.6	42.0	5.6	96	sw.	2	0.9	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	D. Moore.
Springfield, Illinois	29.16	740.7	29.89	759.2	34.5	1.4	81	nw.	15	6.7	.....	.....	10 s	.....	nw.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.26	692.4	30.39	771.9	33.0	0.6	62	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Tatoosh Id., Wash. Ter.	30.22	767.6	.....	.....	45.1	7.3	99	sw.	3	1.3	.....	.....	10 s	.....	.....	2.28	57.9	cloudy	R. Connor.
Thomas, Camp, Arizona	27.53	699.2	30.36	771.1	35.2	1.8	71	w.	.....	.....	1	1 cs	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.38	746.2	30.12	765.0	22.9	— 5.1	88	se.	6	2.7	.....	.....	10 n	.....	.....	0.01	0.3	light snow	A. Buell.
Unalashka, Alaska	29.14	740.1	29.16	740.7	33	0.6	78	s.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Samuel Applegate
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	44	6.7	60	se.	2	0.9	.....	0	3 s	.....	sw.	0	0	clear	C. Dill.
Washington, D. C.	30.19	766.8	30.31	769.9	24.8	— 4.0	85	nw.	3	1.3	.....	1 cs	0	.....	.....	0.10	2.5	clear	T. B. Harrison.
West Las Animas, Colorado	26.21	665.7	30.33	770.4	20	— 6.7	80	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Wilmington, N. Carolina	30.22	767.6	30.28	769.1	36.0	2.2	53	ne.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	L. H. Albrecht.
Yankton, Dakota	28.89	733.8	30.31	769.9	11.0	—11.7	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	29.99	761.7	30.14	765.5	65.8	18.8	32	n.	16	7.2	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Behring Island, Kamchatka	29.46	748.3	29.48	748.8	24.0	— 4.4	88	e.	4	1.8	.....	.....	10 n	.....	.....	0.04	1.0	light snow	George Cheruick.
Bluefields, Nicaragua, C. A.	.....	.....	.....	.....	77	25.0	.....	nw.	.....	.....	1	1 c	2 k	sw.	ne.	0.09	2.3	fair	W. H. Jackson.
Bogota, U. S. C.	22.01	559.1	.....	.....	53.6	12.0	86	sw.	2	1	.....	.....	10	.....	.....	0	0	covered	Joaquin Gomez.
Chimo, Fort, Ungava	29.66	753.4	29.83	757.7	—21	—29.4	100	s.	7	3.1	.....	0	0	.....	.....	0.08	2.0	clear	L. M. Turner.
Kingston, Jamaica, W. I.	.....	.....	30.10	764.5	66.0	18.9	80	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	Robert Johnston.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	74	23.3	95	se.	.....	.....	3	.....	10 n	e.	e.	1.170	29.7	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.34	745.2	29.90	759.4	79	26.1	85	calm	.....	.....	0	7 ck	3 ks	s.	s.	0	0	cloudy	Francisco J. Cisneros
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73.8	23.2	88	ne.	.....	.....	3	0	0	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	29.95	760.7	30.02	762.5	—30.0	—34.4	.....	nw	13	5.8	.....	2 c	2 s	nw.	nw.	0	0	fair	Fortescue & Wood.
U. S. OF COLOMBIA. (*Sub series*).																			
Colon	29.97	761.3	29.98	761.5	77.7	25.4	78	n	7.4	3.3	.....	6 ck	0	n.	.....	0	0	fair	P. Fasiani.
Naos, Bay of Panama	29.96	760.9	30.02	762.6	71.6	22.0	89	nw.	.....	.....	3	1 ck	0	n	.....	0	0	clear	Antonio Fabre.